APPENDIX K.2 **OPERATING UNIT 2 (OU-2) REMEDIAL ACTION PLAN (4 OF 5)**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90410-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/7/2019 9:58 PM

Urvashi Patel, Manager of Project Management
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01/07/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90410-1

Comments
No additional comments.

Receipt
The samples were received on 12/18/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.2º C, 1.8º C, 2.6º C, 2.9º C, 3.9º C, 4.3º C and 5.0º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample FB-12.18 was marked for all analyses but lab only received 2 voas. Logged them for VOCs + GAS. Client instructed to proceed with VOC analysis for FB, see client email.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519965 recovered above the upper control limit for 4-Methyl-2-pentanone (MIBK), 2-Hexanone and Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-N1W (720-90410-1), DG-O3W (720-90410-2), DG-S3W (720-90410-3), DG-U3W (720-90410-4), DG-W3W (720-90410-5), DG-Y3W (720-90410-6), FB-12.18.18 (720-90410-7), DG-AA3W (720-90410-8), DUP-15 (720-90410-9) and (CCVIS 440-519965/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: DG-U3W (720-90410-4) and DUP-15 (720-90410-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-518633 and analytical batch 440-518682. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-518633/2-A)

Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-518634 and analytical batch 440-518683. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-518634/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257456 and analytical batch 720-257686 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518634 for method 8015B.

Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume for method 8015B: DUP-15 (720-90410-9). The reporting limits (RLs) are elevated proportionately.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518633 method 8015B

Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume for method 8015B: DG-U3W (720-90410-4). The reporting limits (RLs) are elevated proportionately.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518777.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method 8015B - DRO

Diesel Range Organics (DRO) (GC) by Method 8015B

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-5HT Infe ID: 0.25(mm)

Client Sample ID	Lab Sample ID	OTCN1 #
DG-N1W	720-90410-1	67
DG-O3W	720-90410-2	72
DG-S3W	720-90410-3	70
DG-U3W	720-90410-4	69
DG-W3W	720-90410-5	58
DG-Y3W	720-90410-6	67
DG-AA3W	720-90410-8	53
DUP-15	720-90410-9	70
	MB 440-518633/1-A	79
	MB 440-518634/1-A	65
	LCS 440-518633/2-A	74
	LCS 440-518634/2-A	67
	LCSD 440-518633/3-A	77
	LCSD 440-518634/3-A	80

	QC LIMITS
OTCN = n-Octacosane	45-120

Column to be used to flag recovery values

FORM II 8015B

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Matrix: Water Level: Low Lab File ID: L21a033.d

Lab ID: LCS 440-518633/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Diesel Range Organics [C10-C28]	1000	598	60	40-115	

Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Matrix: Water Level: Low Lab File ID: L21a030.d

Lab ID: LCS 440-518634/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Diesel Range Organics [C10-C28]	1000	603	60	40-115	

Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Matrix: Water Level: Low Lab File ID: L21a034.d

Lab ID: LCSD 440-518633/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Diesel Range Organics [C10-C28]	1000	656	66	9	25	40-115	

Column to be used to flag recovery and RPD values

FORM III 8015B

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Matrix: Water Level: Low Lab File ID: L21a031.d

Lab ID: LCSD 440-518634/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Diesel Range Organics [C10-C28]	1000	743	74	21	25	40-115	

Column to be used to flag recovery and RPD values

FORM III 8015B

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: MB 440-518633/1-A

Matrix: Water Date Extracted: 12/21/2018 06:02

Lab File ID:(1) L21a036.d Lab File ID:(2)

Date Analyzed:(1) 12/21/2018 20:03 Date Analyzed:(2)

Instrument ID:(1) GC69A Instrument ID:(2)

GC Column:(1) ZB-5HT Infer ID: 0.25(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 440-518633/2-A	12/21/2018 19:01	
	LCSD 440-518633/3-A	12/21/2018 19:22	
DG-N1W	720-90410-1	12/28/2018 19:39	
DG-O3W	720-90410-2	12/28/2018 20:00	
DG-S3W	720-90410-3	12/28/2018 23:44	
DG-U3W	720-90410-4	12/29/2018 00:04	

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: MB 440-518634/1-A

Matrix: Water Date Extracted: 12/21/2018 06:13

Lab File ID:(1) L21a033.d Lab File ID:(2)

Date Analyzed:(1) 12/21/2018 21:58 Date Analyzed:(2)

Instrument ID:(1) GC70A Instrument ID:(2)

GC Column:(1) ZB-5HT Infer ID: 0.25(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 440-518634/2-A	12/21/2018 20:53	
	LCSD 440-518634/3-A	12/21/2018 21:15	
DUP-15	720-90410-9	12/27/2018 10:08	
DG-W3W	720-90410-5	12/27/2018 11:57	
DG-Y3W	720-90410-6	12/27/2018 12:19	
DG-AA3W	720-90410-8	12/27/2018 12:41	

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Sample No.: ICRT 440-501116/6 Date Analyzed: 09/26/2018 02:03

Instrument ID: GC69A GC Column: ZB-5HT Inferno ID: 0.25(mm)

Lab File ID (Standard): I24a085.d Heated Purge: (Y/N) N

Calibration ID: 20022

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTCN RT #		
INITIAL CALIBRATION SURROGATE				7.17		
UPPER LIMIT				7.67		
LOWER LIMIT				6.67		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 440-501116/6		09/26/2018 02:03	I24a085.d	7.17		
CCVRT 440-518682/4		12/21/2018 11:50	L21a012.d	7.10		
CCVRT 440-519777/5		12/28/2018 09:17	L28a005.d	7.11		

OTCN = n-Octacosane

OTCN RT Limit = ± 0.5 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Sample No.: CCVRT 440-518682/4 Date Analyzed: 12/21/2018 11:50

Instrument ID: GC69A GC Column: ZB-5HT Inferno ID: 0.25(mm)

Lab File ID (Standard): L21a012.d Heated Purge: (Y/N) N

Calibration ID: 20022

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTCN RT #		
CONTINUING CALIBRATION SURROGATE				7.10		
UPPER LIMIT				7.68		
LOWER LIMIT				6.68		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 440-518682/4		12/21/2018 11:50	L21a012.d	7.10		
CCV 440-518682/24		12/21/2018 18:40	L21a032.d	7.12		
LCS 440-518633/2-A		12/21/2018 19:01	L21a033.d	7.10		
LCSD 440-518633/3-A		12/21/2018 19:22	L21a034.d	7.10		
MB 440-518633/1-A		12/21/2018 20:03	L21a036.d	7.11		
CCV 440-518682/39		12/21/2018 23:49	L21a047.d	7.11		

OTCN = n-Octacosane

OTCN RT Limit = ± 0.5 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Sample No.: CCVRT 440-519777/5 Date Analyzed: 12/28/2018 09:17

Instrument ID: GC69A GC Column: ZB-5HT Inferno ID: 0.25(mm)

Lab File ID (Standard): L28a005.d Heated Purge: (Y/N) N

Calibration ID: 20022

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTCN RT #		
CONTINUING CALIBRATION SURROGATE				7.11		
UPPER LIMIT				7.68		
LOWER LIMIT				6.68		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 440-519777/5		12/28/2018 09:17	L28a005.d	7.11		
CCV 440-519777/19		12/28/2018 15:35	L28a019.d	7.11		
720-90410-1	DG-N1W	12/28/2018 19:39	L28a031.d	7.11		
720-90410-2	DG-O3W	12/28/2018 20:00	L28a032.d	7.11		
CCV 440-519777/34		12/28/2018 20:41	L28a034.d	7.12		
720-90410-3	DG-S3W	12/28/2018 23:44	L28a043.d	7.11		
720-90410-4	DG-U3W	12/29/2018 00:04	L28a044.d	7.11		
CCV 440-519777/48		12/29/2018 01:25	L28a048.d	7.11		

OTCN = n-Octacosane

OTCN RT Limit = ± 0.5 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Sample No.: STD750PPM 440-469391/10 Date Analyzed: 04/10/2018 22:34

Instrument ID: GC70A GC Column: ZB-5HT Inferno ID: 0.25(mm)

Lab File ID (Standard): D10a010.d Heated Purge: (Y/N) N

Calibration ID: 19048

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTCN RT #		
INITIAL CALIBRATION SURROGATE				7.22		
UPPER LIMIT				7.72		
LOWER LIMIT				6.72		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD750PPM 440-469391/10 ICRT		04/10/2018 22:34	D10a010.d	7.22		
CCVRT 440-518683/5		12/21/2018 09:51	L21a005.d	7.08		

OTCN = n-Octacosane

OTCN RT Limit = ± 0.5 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Sample No.: CCVRT 440-518683/5 Date Analyzed: 12/21/2018 09:51

Instrument ID: GC70A GC Column: ZB-5HT Inferno ID: 0.25(mm)

Lab File ID (Standard): L21a005.d Heated Purge: (Y/N) N

Calibration ID: 19048

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTCN RT #		
CONTINUING CALIBRATION SURROGATE				7.08		
UPPER LIMIT				7.72		
LOWER LIMIT				6.72		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 440-518683/5		12/21/2018 09:51	L21a005.d	7.08		
CCV 440-518683/29		12/21/2018 20:32	L21a029.d	7.09		
LCS 440-518634/2-A		12/21/2018 20:53	L21a030.d	7.08		
LCSD 440-518634/3-A		12/21/2018 21:15	L21a031.d	7.08		
MB 440-518634/1-A		12/21/2018 21:58	L21a033.d	7.08		
CCV 440-518683/37		12/21/2018 23:46	L21a037.d	7.09		

OTCN = n-Octacosane

OTCN RT Limit = ± 0.5 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Sample No.: CCVRT 440-519500/5 Date Analyzed: 12/27/2018 09:32

Instrument ID: GC70A GC Column: ZB-5HT Inferno ID: 0.25(mm)

Lab File ID (Standard): L27a005.d Heated Purge: (Y/N) N

Calibration ID: 19048

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTCN RT #		
CONTINUING CALIBRATION SURROGATE				7.10		
UPPER LIMIT				7.60		
LOWER LIMIT				6.60		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 440-519500/5		12/27/2018 09:32	L27a005.d	7.10		
720-90410-9	DUP-15	12/27/2018 10:08	L27a006.d	7.10		
720-90410-5	DG-W3W	12/27/2018 11:57	L27a011.d	7.09		
720-90410-6	DG-Y3W	12/27/2018 12:19	L27a012.d	7.10		
720-90410-8	DG-AA3W	12/27/2018 12:41	L27a013.d	7.09		
CCV 440-519500/19		12/27/2018 14:52	L27a019.d	7.10		

OTCN = n-Octacosane

OTCN RT Limit = ± 0.5 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8015B

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: DG-N1W | Lab Sample ID: 720-90410-1

Matrix: Water | Lab File ID: L28a031.d

Analysis Method: 8015B | Date Collected: 12/18/2018 09:00

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:02

Sample wt/vol: 1045(mL) | Date Analyzed: 12/28/2018 19:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 519777 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	130	J	480	96
STL00158	Motor Oil Range Organics [C24-C36]	ND		480	96

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	67		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a031.d				
Lims ID:	720-90410-H-1-A				
Client ID:	DG-N1W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 19:39:55	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:44:07	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:44:07		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.598	(1.902-7.293)		434382	131.5	
$ 127 n-Octacosane	7.108	7.112	-0.004	436388	133.9	
A 136 C24-C36	7.389	(5.842-8.937)		277781	84.1	

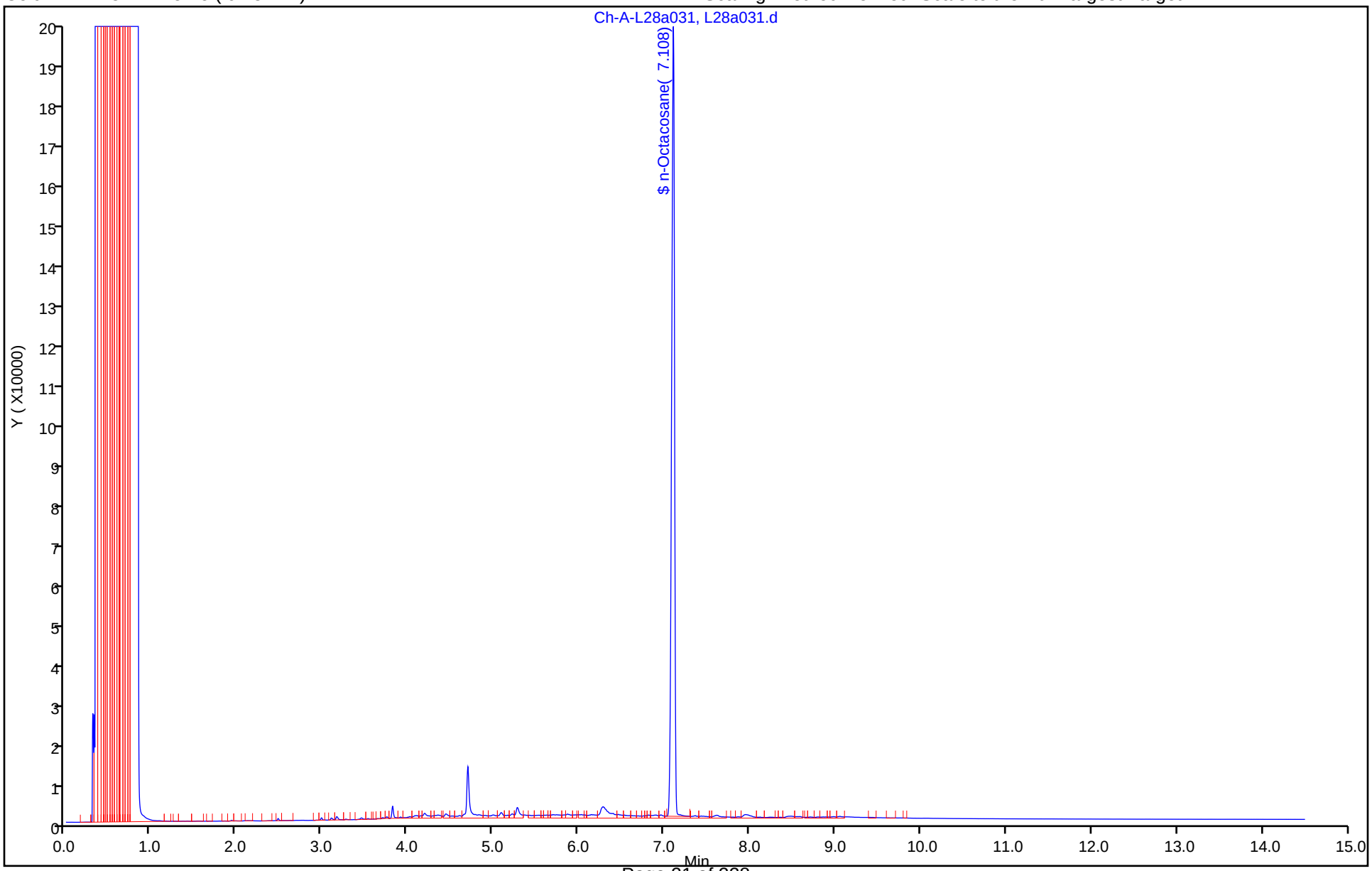
Report Date: 30-Dec-2018 10:44:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a031.d

Injection Date:	28-Dec-2018 19:39:55	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90410-H-1-A	Lab Sample ID:	440-90410-1	Worklist Smp#:	31
Client ID:	DG-N1W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a031.d				
Lims ID:	720-90410-H-1-A				
Client ID:	DG-N1W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 19:39:55	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:44:07	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				

First Level Reviewer: doanm Date: 30-Dec-2018 10:44:07

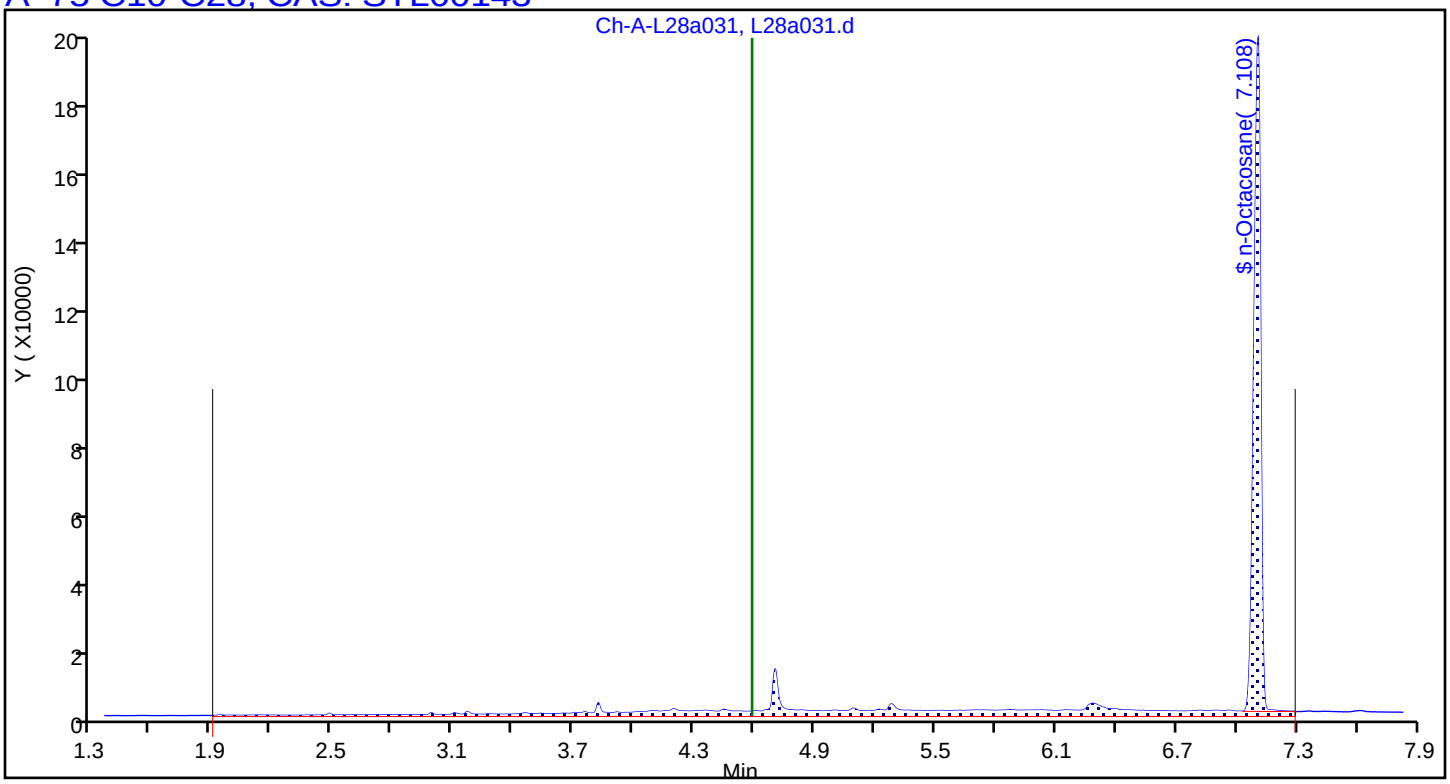
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	133.9	66.97

Report Date: 30-Dec-2018 10:44:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a031.d				
Injection Date:	28-Dec-2018 19:39:55	Instrument ID:	GC69A		
Lims ID:	720-90410-H-1-A	Lab Sample ID:	440-90410-1		
Client ID:	DG-N1W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

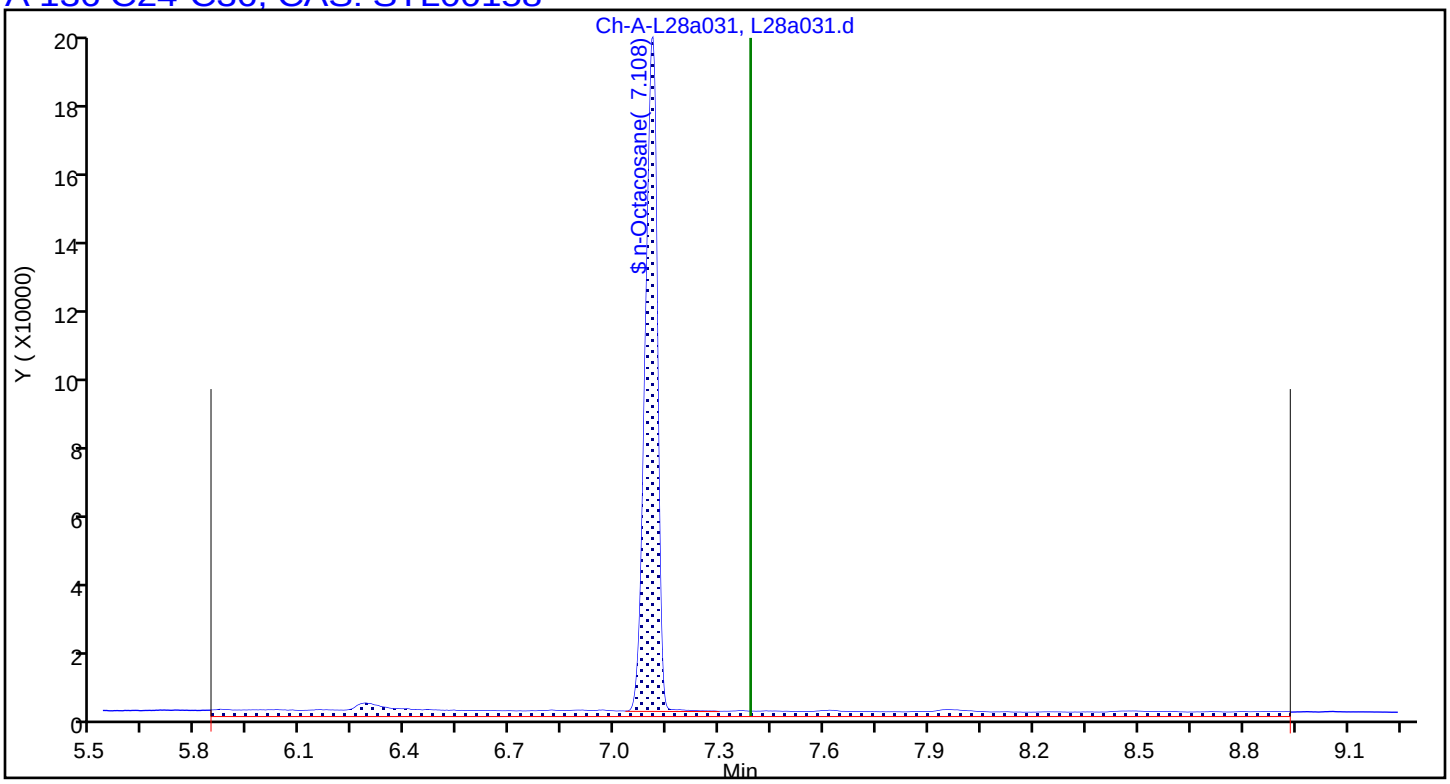


Report Date: 30-Dec-2018 10:44:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a031.d				
Injection Date:	28-Dec-2018 19:39:55	Instrument ID:	GC69A		
Lims ID:	720-90410-H-1-A	Lab Sample ID:	440-90410-1		
Client ID:	DG-N1W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: DG-O3W | Lab Sample ID: 720-90410-2

Matrix: Water | Lab File ID: L28a032.d

Analysis Method: 8015B | Date Collected: 12/18/2018 10:00

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:02

Sample wt/vol: 890(mL) | Date Analyzed: 12/28/2018 20:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 519777 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	ND		560	110
STL00158	Motor Oil Range Organics [C24-C36]	ND		560	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	72		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a032.d				
Lims ID:	720-90410-D-2-A				
Client ID:	DG-O3W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 20:00:21	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:44:23	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:44:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.599	(1.905-7.293)		300027	90.8	
$ 127 n-Octacosane	7.108	7.112	-0.004	468268	143.7	
A 136 C24-C36	7.389	(5.842-8.937)		236795	71.7	

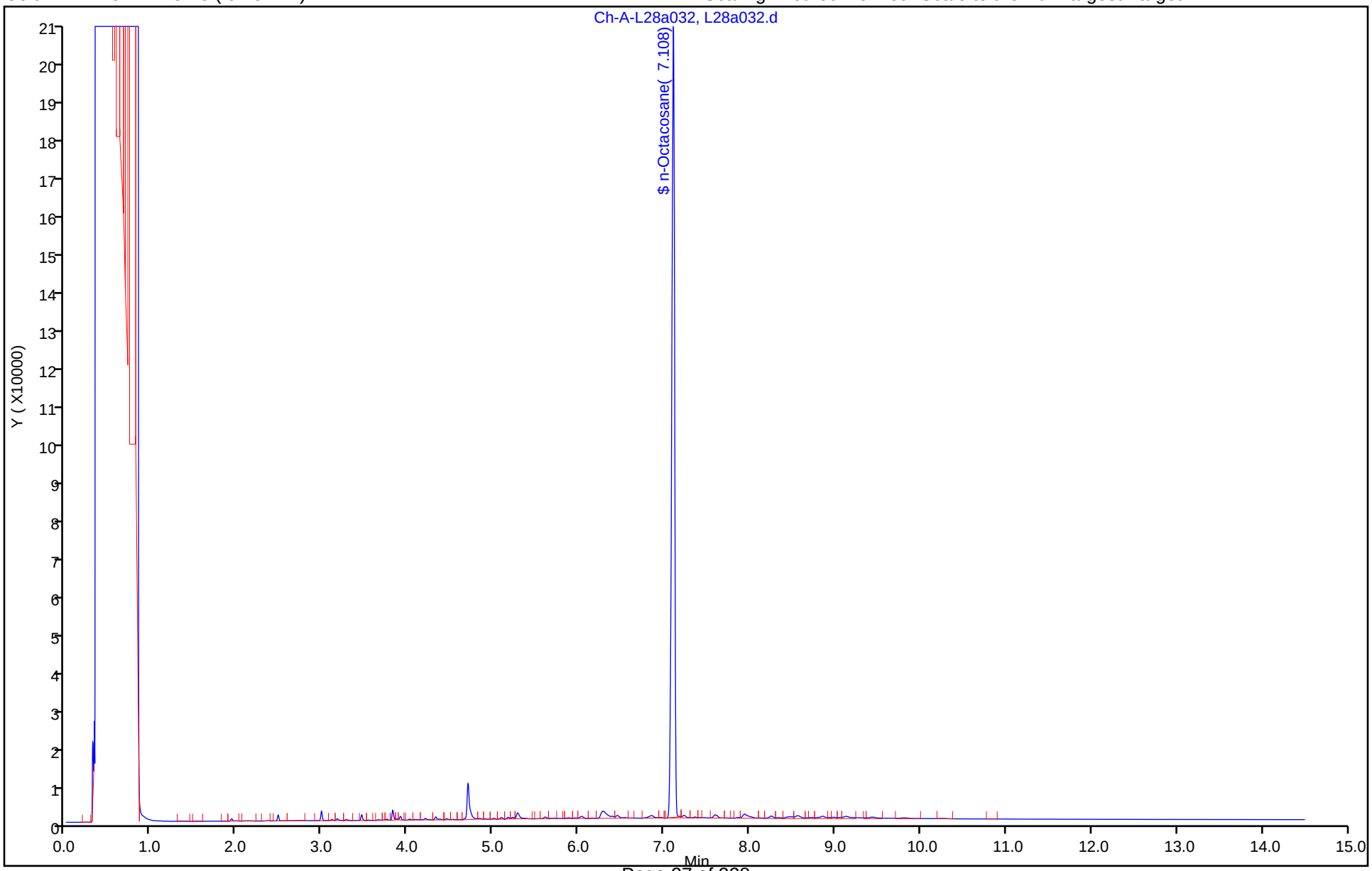
Report Date: 30-Dec-2018 10:44:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a032.d

Injection Date:	28-Dec-2018 20:00:21	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90410-D-2-A	Lab Sample ID:	440-90410-2	Worklist Smp#:	32
Client ID:	DG-O3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a032.d				
Lims ID:	720-90410-D-2-A				
Client ID:	DG-O3W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 20:00:21	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:44:23	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:44:23		

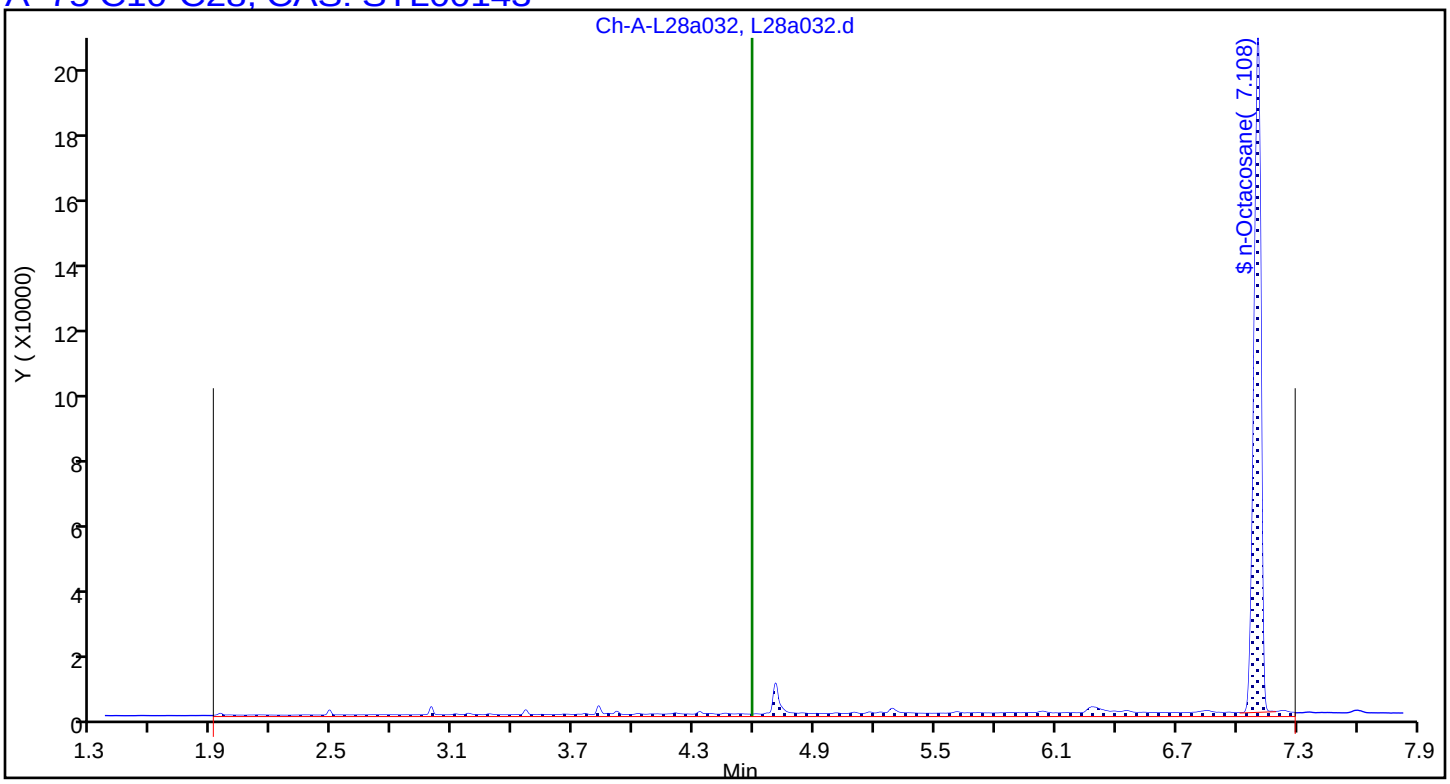
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	143.7	71.86

Report Date: 30-Dec-2018 10:44:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a032.d				
Injection Date:	28-Dec-2018 20:00:21	Instrument ID:	GC69A		
Lims ID:	720-90410-D-2-A	Lab Sample ID:	440-90410-2		
Client ID:	DG-O3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

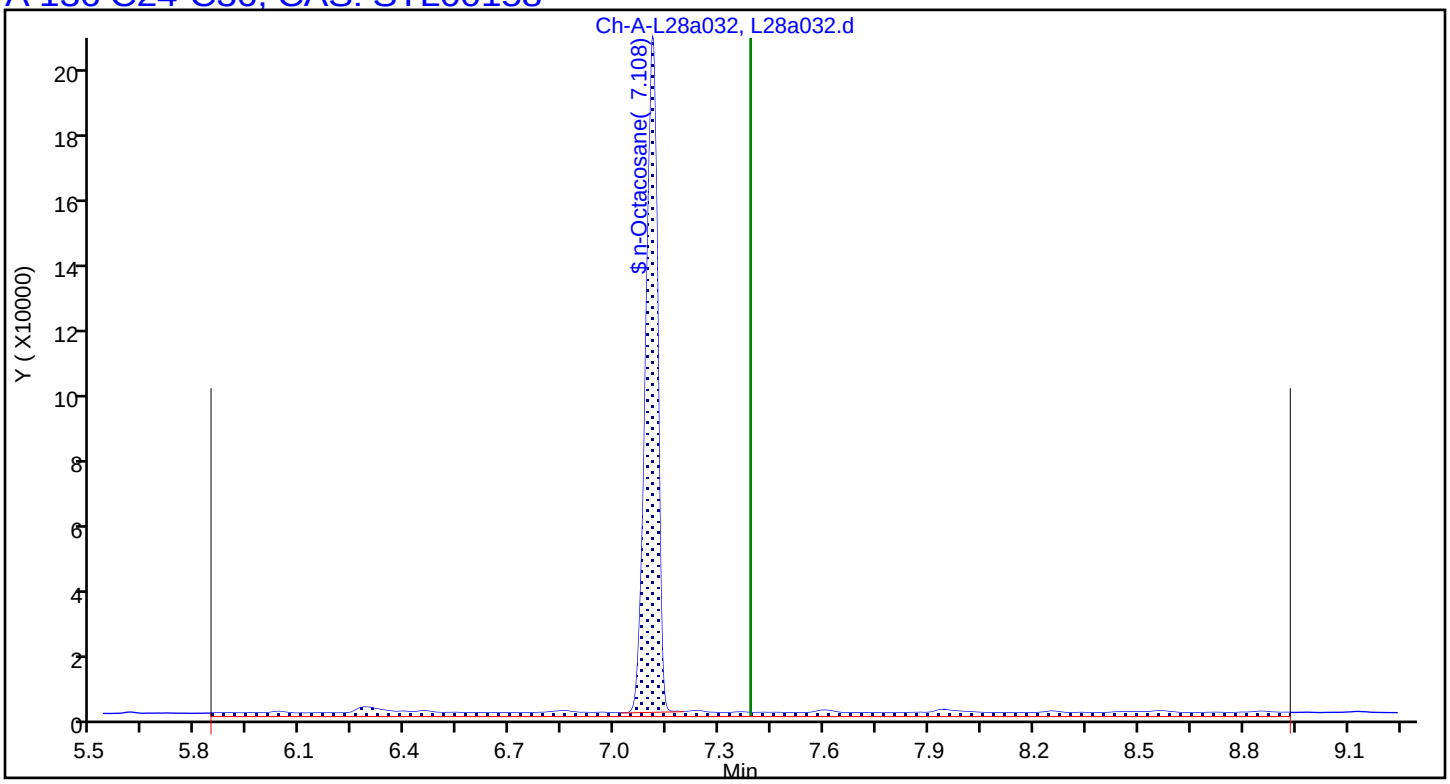


Report Date: 30-Dec-2018 10:44:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a032.d				
Injection Date:	28-Dec-2018 20:00:21	Instrument ID:	GC69A		
Lims ID:	720-90410-D-2-A	Lab Sample ID:	440-90410-2		
Client ID:	DG-O3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: DG-S3W | Lab Sample ID: 720-90410-3

Matrix: Water | Lab File ID: L28a043.d

Analysis Method: 8015B | Date Collected: 12/18/2018 13:00

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:02

Sample wt/vol: 1020(mL) | Date Analyzed: 12/28/2018 23:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 519777 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	1200		490	98
STL00158	Motor Oil Range Organics [C24-C36]	1700		490	98

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	70		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a043.d				
Lims ID:	720-90410-E-3-A				
Client ID:	DG-S3W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 23:44:14	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:47:24	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:47:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.585	(1.925-7.245)		3967768	1201.0	
$ 127 n-Octacosane	7.112	7.112	0.000	457938	140.6	
A 136 C24-C36	7.389	(5.842-8.937)		5793082	1753.5	

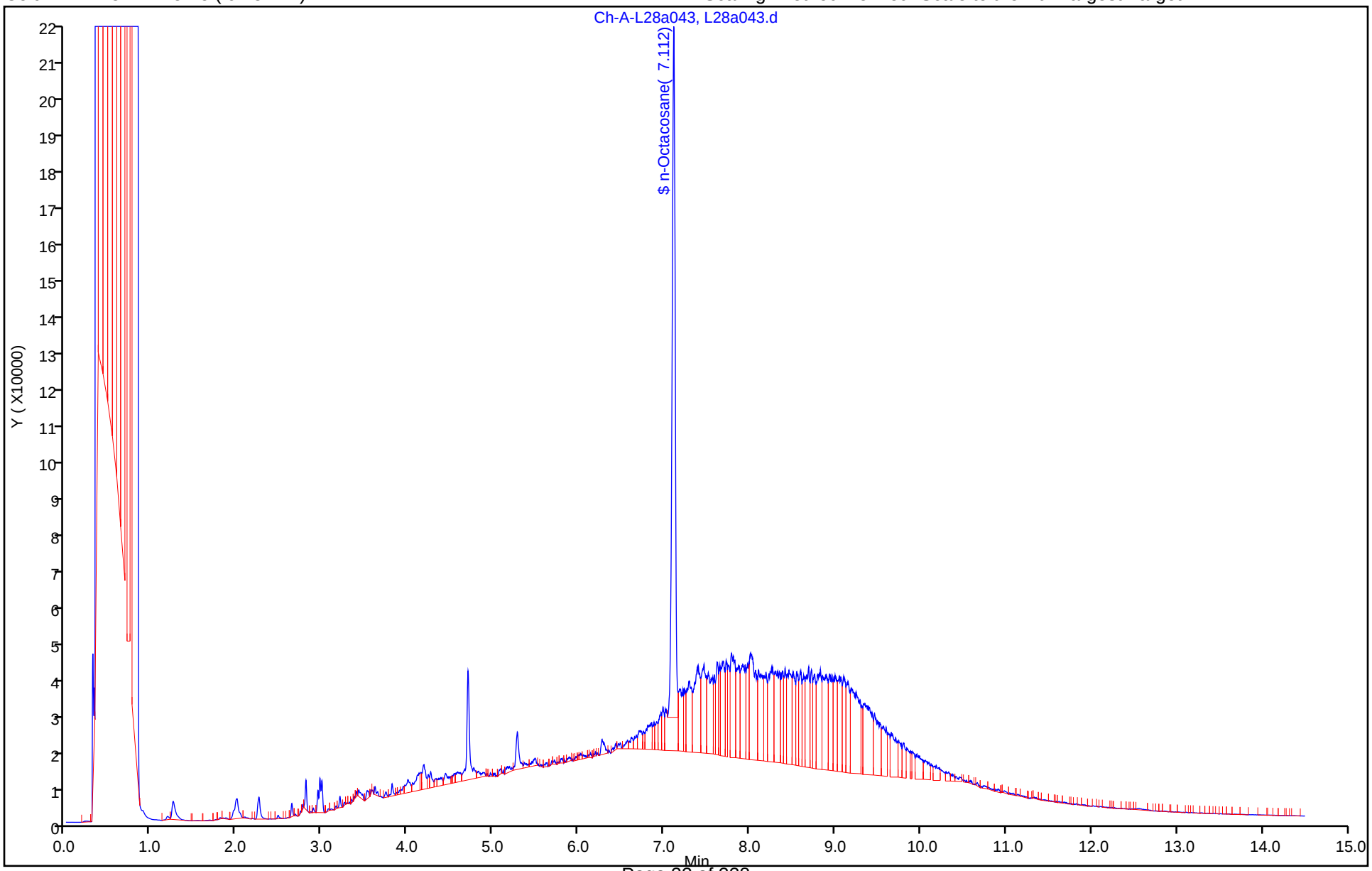
Report Date: 30-Dec-2018 10:47:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a043.d

Injection Date:	28-Dec-2018 23:44:14	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90410-E-3-A	Lab Sample ID:	440-90410-3	Worklist Smp#:	43
Client ID:	DG-S3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a043.d				
Lims ID:	720-90410-E-3-A				
Client ID:	DG-S3W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 23:44:14	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:47:24	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				

First Level Reviewer: doanm Date: 30-Dec-2018 10:47:24

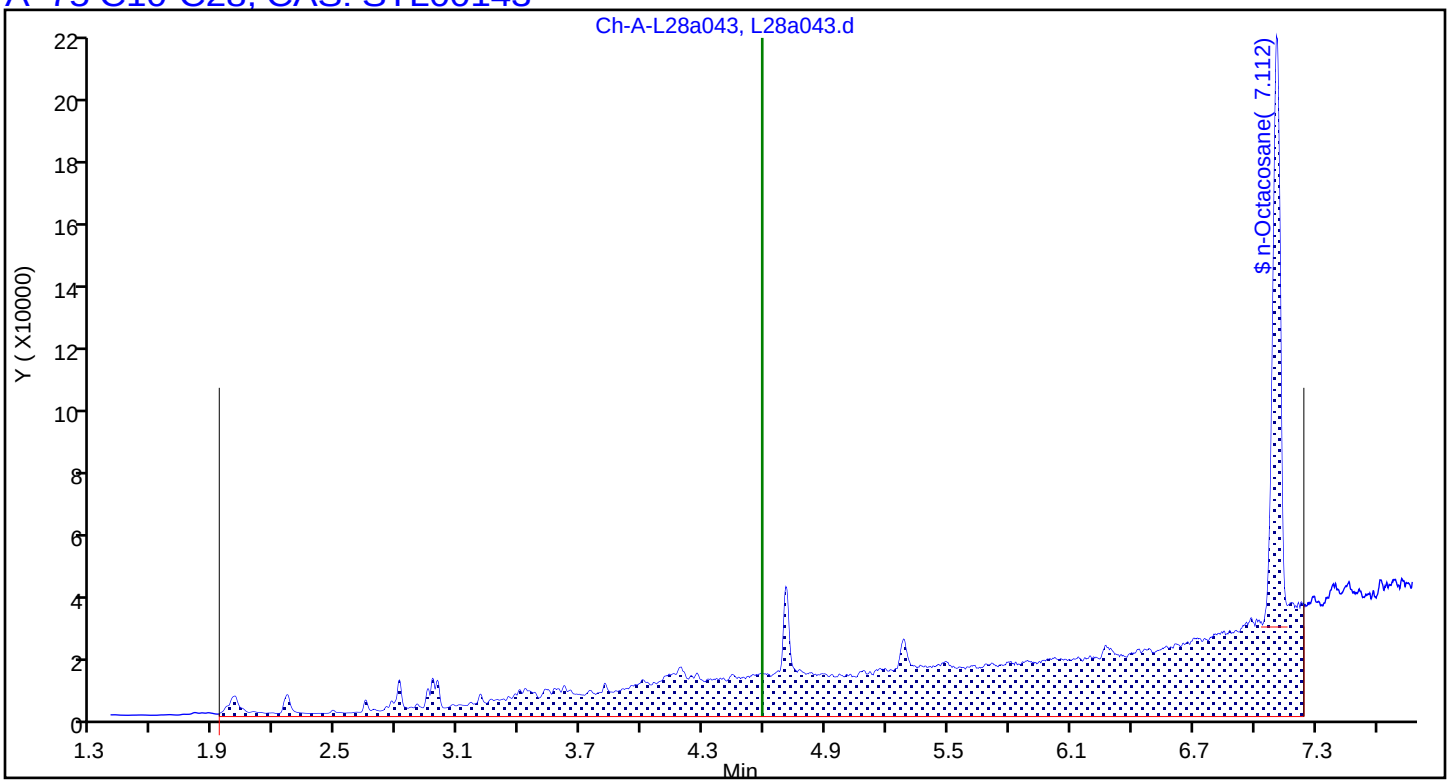
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	140.6	70.28

Report Date: 30-Dec-2018 10:47:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a043.d				
Injection Date:	28-Dec-2018 23:44:14	Instrument ID:	GC69A		
Lims ID:	720-90410-E-3-A	Lab Sample ID:	440-90410-3		
Client ID:	DG-S3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

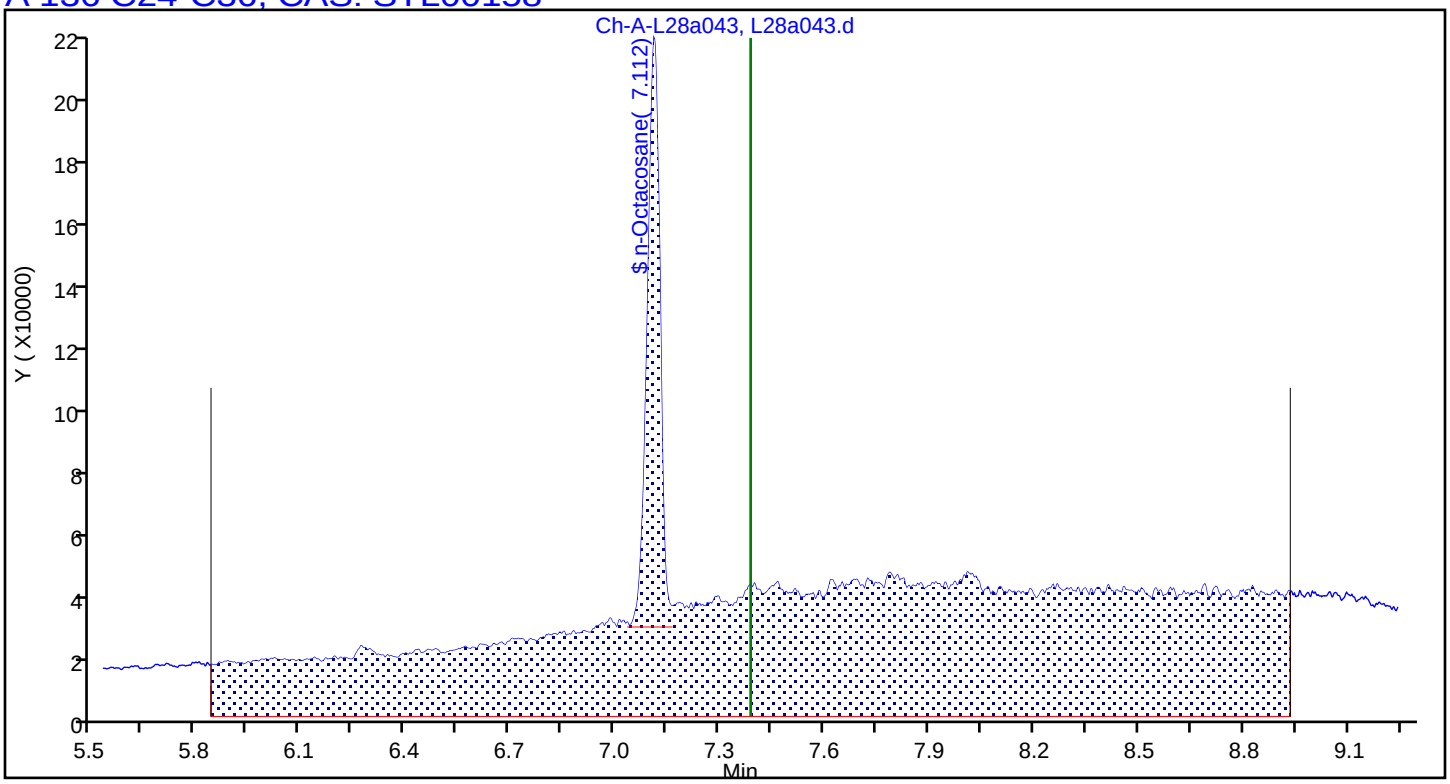


Report Date: 30-Dec-2018 10:47:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a043.d				
Injection Date:	28-Dec-2018 23:44:14	Instrument ID:	GC69A		
Lims ID:	720-90410-E-3-A	Lab Sample ID:	440-90410-3		
Client ID:	DG-S3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: DG-U3W | Lab Sample ID: 720-90410-4

Matrix: Water | Lab File ID: L28a044.d

Analysis Method: 8015B | Date Collected: 12/18/2018 13:30

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:02

Sample wt/vol: 1035(mL) | Date Analyzed: 12/29/2018 00:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 519777 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	1000		970	190
STL00158	Motor Oil Range Organics [C24-C36]	2600		970	190

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	69		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a044.d				
Lims ID:	720-90410-G-4-A				
Client ID:	DG-U3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 00:04:34	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:47:41	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:47:41		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.607	(1.920-7.293)		1725806	522.4	
$ 127 n-Octacosane	7.108	7.112	-0.004	224129	68.8	
A 136 C24-C36	7.389	(5.842-8.937)		4407791	1334.2	

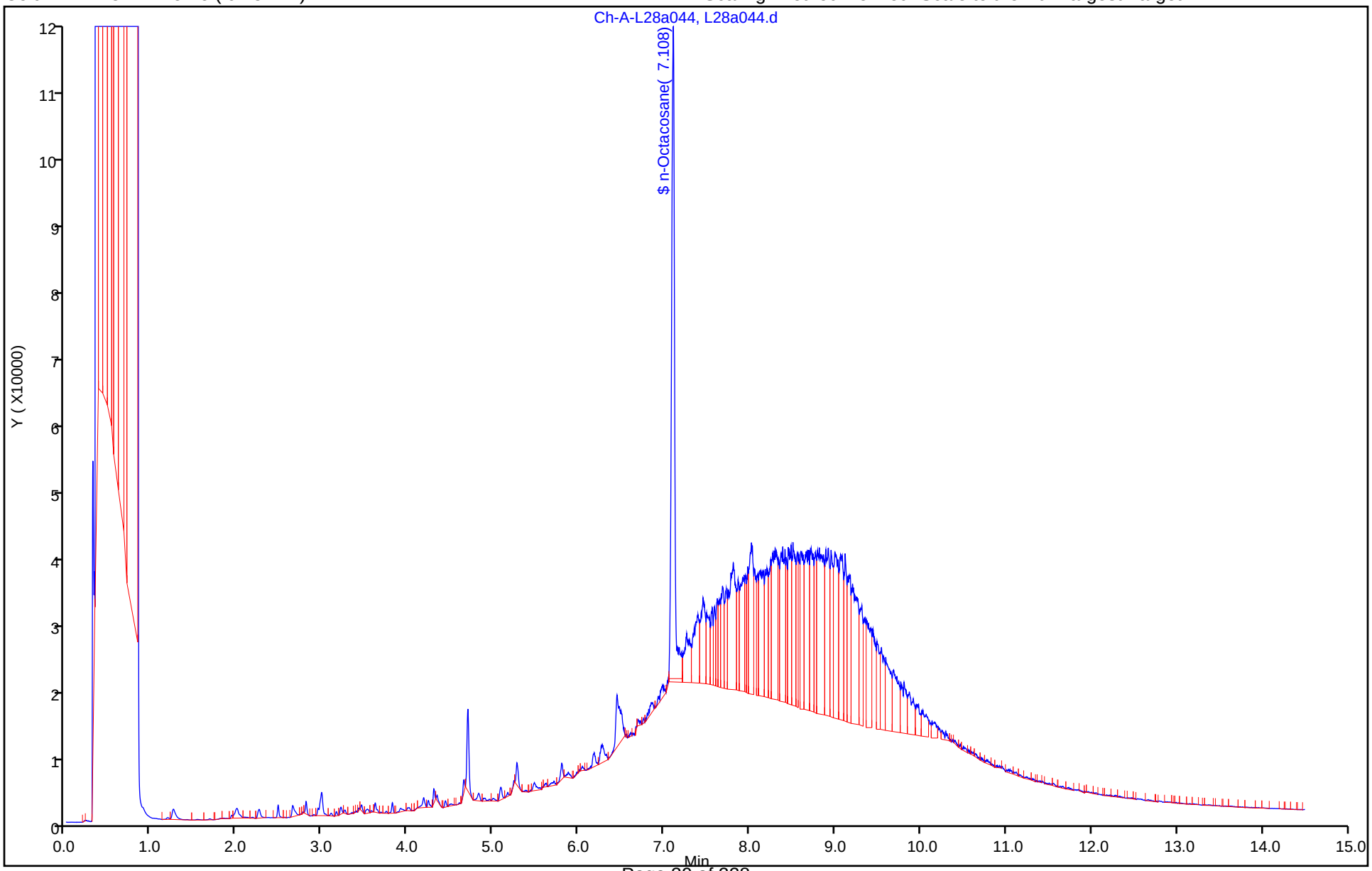
Report Date: 30-Dec-2018 10:47:42 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a044.d

Injection Date:	29-Dec-2018 00:04:34	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90410-G-4-A	Lab Sample ID:	440-90410-4	Worklist Smp#:	44
Client ID:	DG-U3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a044.d				
Lims ID:	720-90410-G-4-A				
Client ID:	DG-U3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 00:04:34	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:47:41	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:47:41		

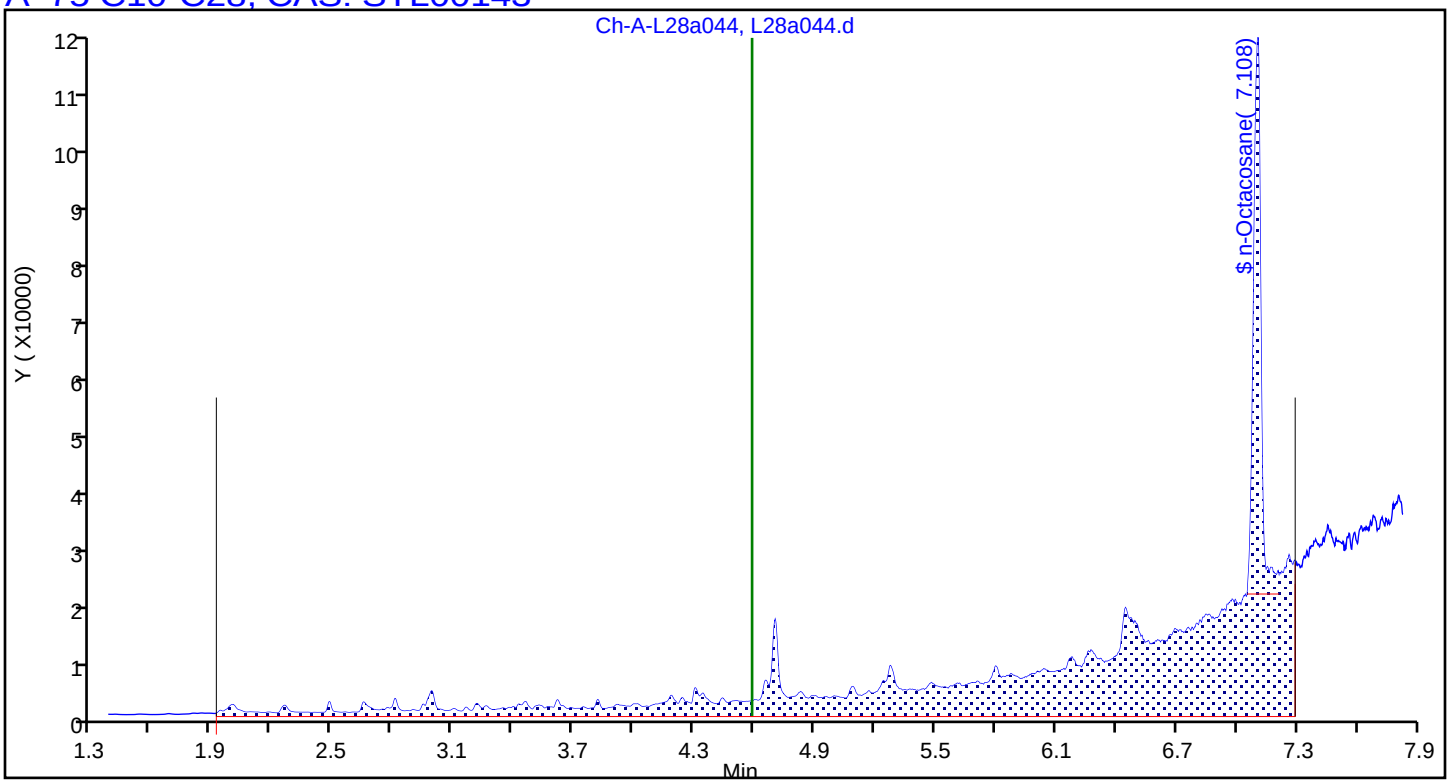
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	68.8	68.79

Report Date: 30-Dec-2018 10:47:42 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a044.d				
Injection Date:	29-Dec-2018 00:04:34	Instrument ID:	GC69A		
Lims ID:	720-90410-G-4-A	Lab Sample ID:	440-90410-4		
Client ID:	DG-U3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

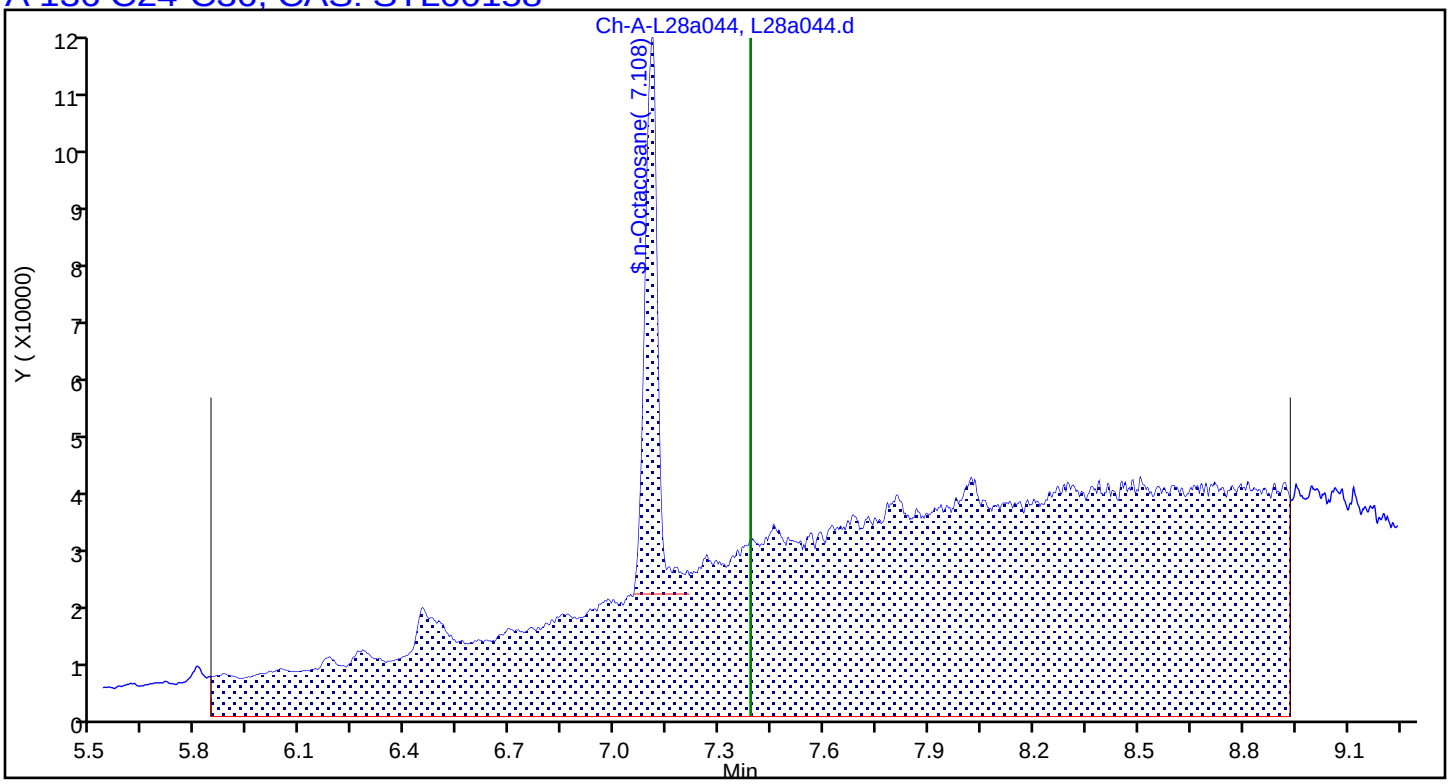


Report Date: 30-Dec-2018 10:47:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a044.d				
Injection Date:	29-Dec-2018 00:04:34	Instrument ID:	GC69A		
Lims ID:	720-90410-G-4-A	Lab Sample ID:	440-90410-4		
Client ID:	DG-U3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: DG-W3W | Lab Sample ID: 720-90410-5

Matrix: Water | Lab File ID: L27a011.d

Analysis Method: 8015B | Date Collected: 12/18/2018 14:25

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:13

Sample wt/vol: 990(mL) | Date Analyzed: 12/27/2018 11:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 519500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	170	J	510	100
STL00158	Motor Oil Range Organics [C24-C36]	130	J	510	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	58		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a011.d				
Lims ID:	720-90410-G-5-A				
Client ID:	DG-W3W				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 11:57:30	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 09:02:40	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: doanm		Date:	28-Dec-2018 09:02:40		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.654	(2.040-7.268)		602972	166.5	
$ 127 n-Octacosane	7.090	7.092	-0.002	423225	115.0	
A 135 C24-C36	7.524	(5.878-9.170)		459890	127.0	

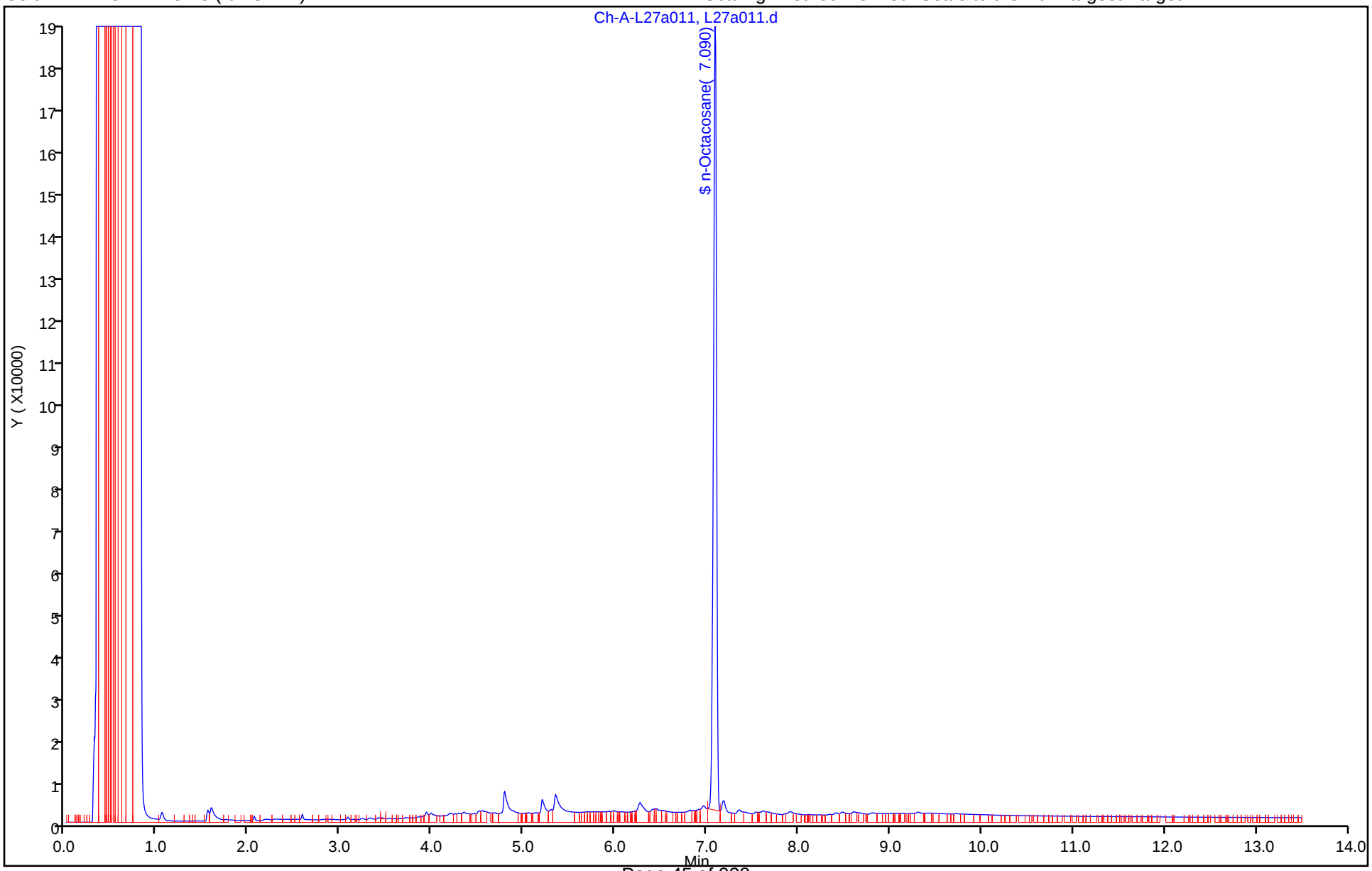
Report Date: 28-Dec-2018 09:02:41 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a011.d

Injection Date:	27-Dec-2018 11:57:30	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90410-G-5-A	Lab Sample ID:	440-90410-5	Worklist Smp#:	11
Client ID:	DG-W3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a011.d				
Lims ID:	720-90410-G-5-A				
Client ID:	DG-W3W				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 11:57:30	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 09:02:40	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: doanm Date: 28-Dec-2018 09:02:40

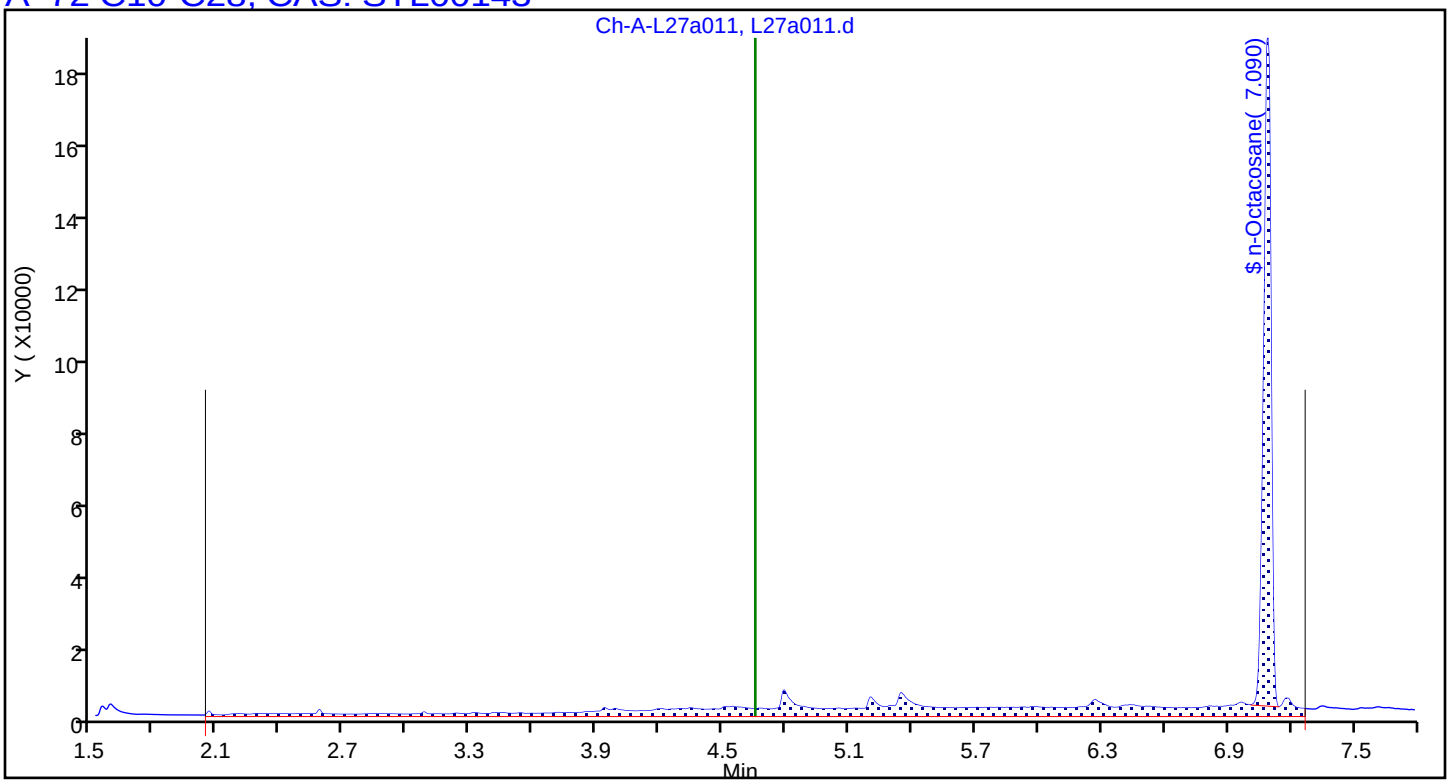
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	115.0	57.52
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 28-Dec-2018 09:02:41 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a011.d				
Injection Date:	27-Dec-2018 11:57:30	Instrument ID:	GC70A		
Lims ID:	720-90410-G-5-A	Lab Sample ID:	440-90410-5		
Client ID:	DG-W3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



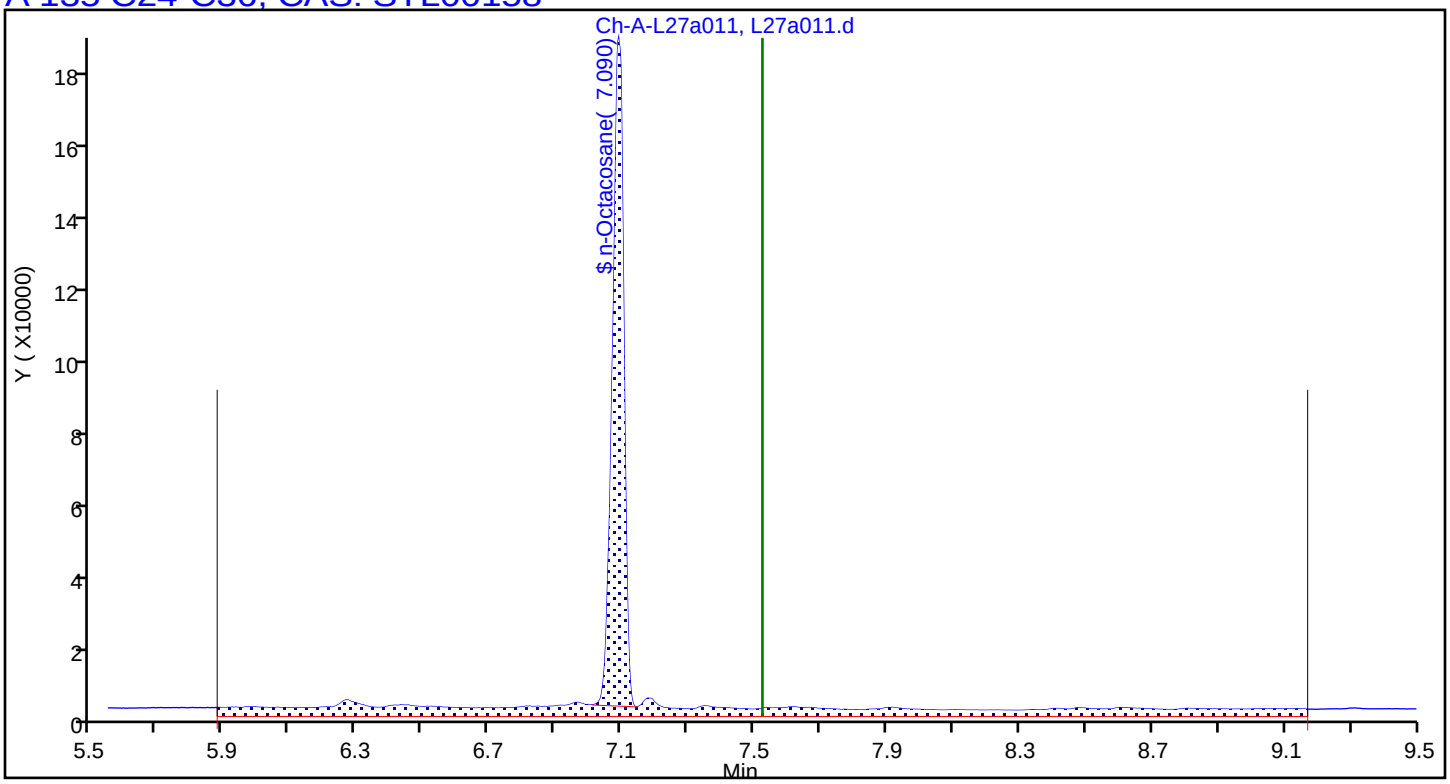
Report Date: 28-Dec-2018 09:02:41 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a011.d

Injection Date:	27-Dec-2018 11:57:30	Instrument ID:	GC70A		
Lims ID:	720-90410-G-5-A	Lab Sample ID:	440-90410-5		
Client ID:	DG-W3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: DG-Y3W | Lab Sample ID: 720-90410-6

Matrix: Water | Lab File ID: L27a012.d

Analysis Method: 8015B | Date Collected: 12/18/2018 15:00

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:13

Sample wt/vol: 950(mL) | Date Analyzed: 12/27/2018 12:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 519500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	240	J	530	110
STL00158	Motor Oil Range Organics [C24-C36]	180	J	530	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	67		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a012.d				
Lims ID:	720-90410-G-6-A				
Client ID:	DG-Y3W				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 12:19:34	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 09:02:56	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: doanm		Date:	28-Dec-2018 09:02:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.654	(2.040-7.268)		818664	226.0	
$ 127 n-Octacosane	7.095	7.092	0.003	493418	134.1	
A 135 C24-C36	7.524	(5.878-9.170)		621295	171.5	

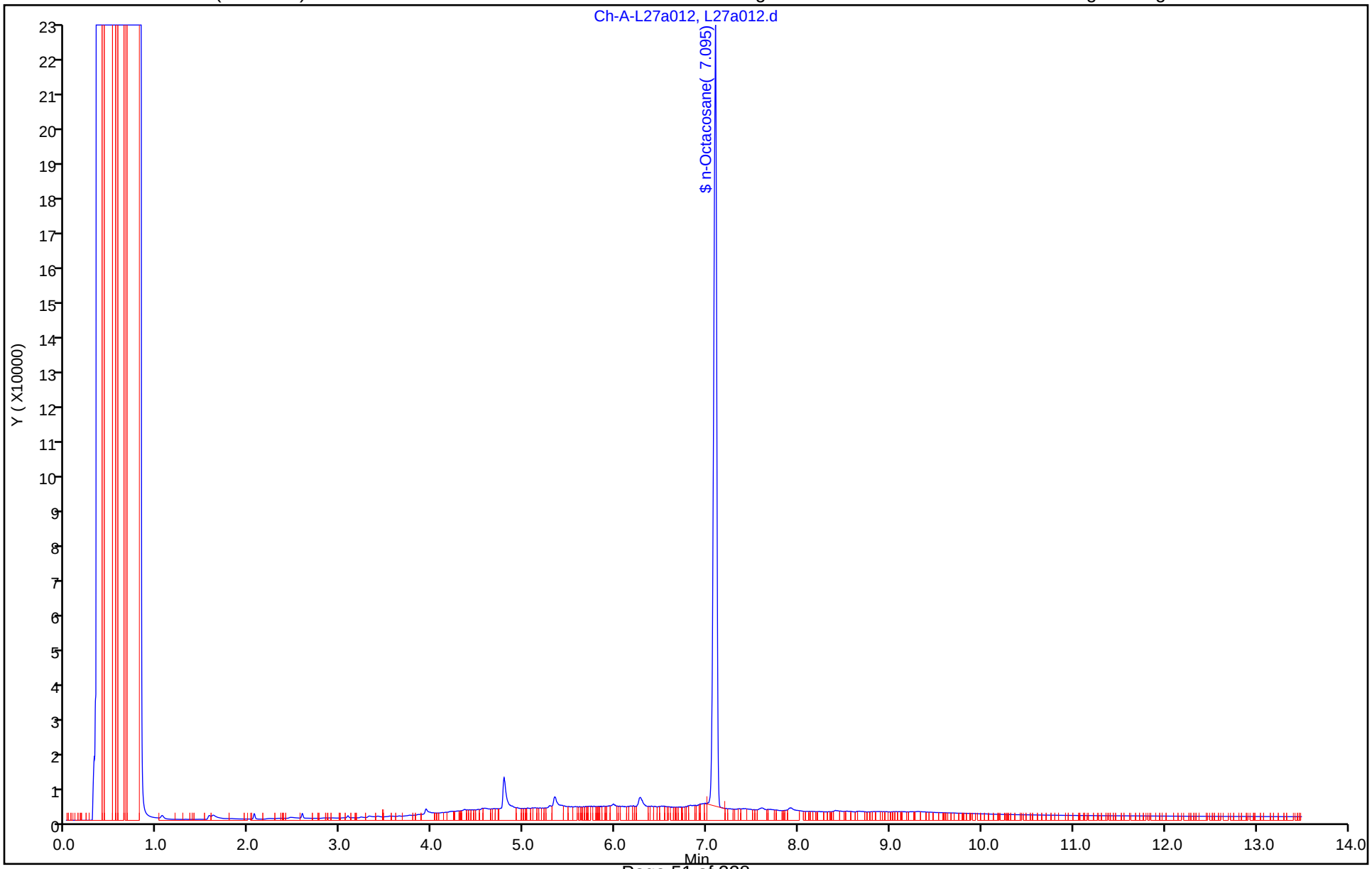
Report Date: 28-Dec-2018 09:02:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a012.d

Injection Date:	27-Dec-2018 12:19:34	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90410-G-6-A	Lab Sample ID:	440-90410-6	Worklist Smp#:	12
Client ID:	DG-Y3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a012.d				
Lims ID:	720-90410-G-6-A				
Client ID:	DG-Y3W				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 12:19:34	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 09:02:56	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: doanm Date: 28-Dec-2018 09:02:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	134.1	67.06
$ 178 n-Triacontane-d62	0.0	0	0.00

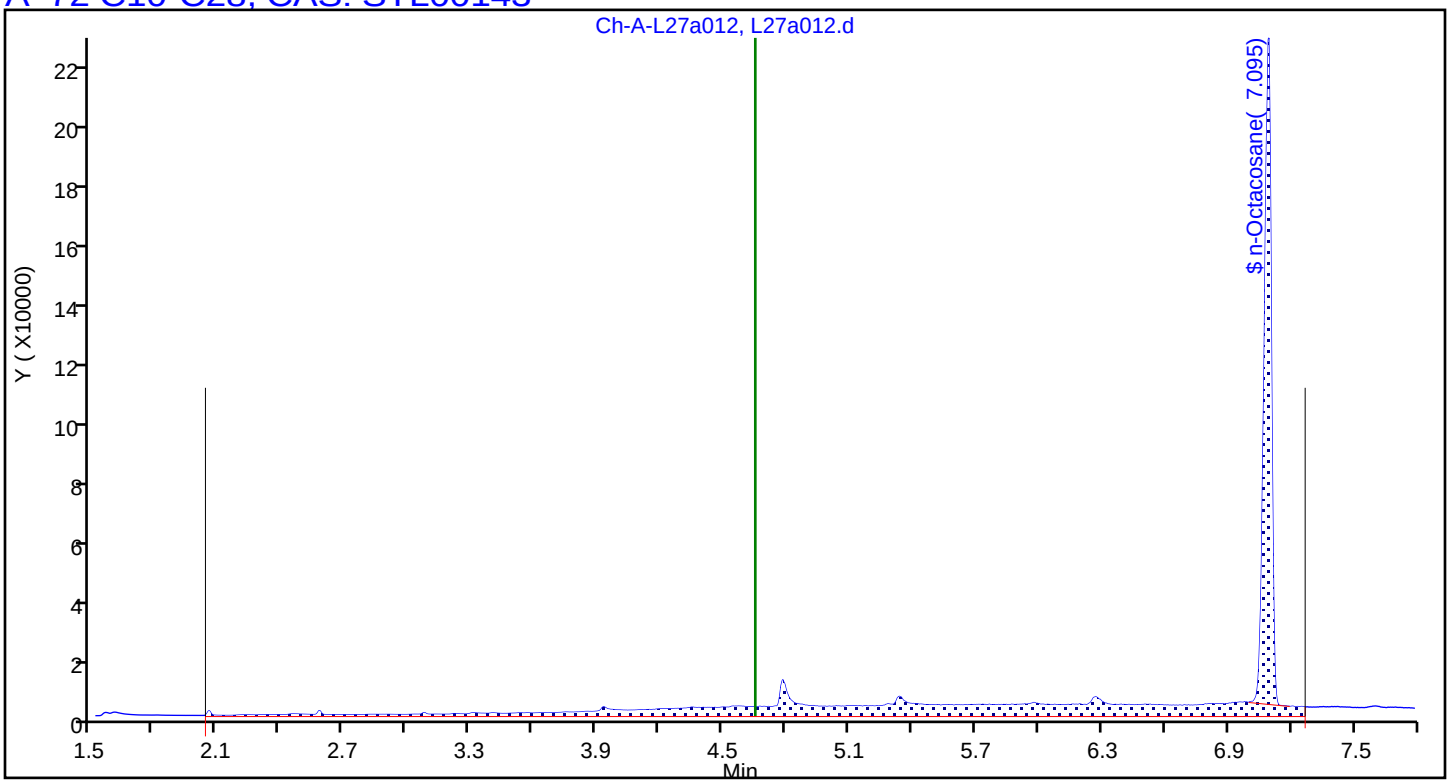
Report Date: 28-Dec-2018 09:02:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a012.d

Injection Date:	27-Dec-2018 12:19:34	Instrument ID:	GC70A		
Lims ID:	720-90410-G-6-A	Lab Sample ID:	440-90410-6		
Client ID:	DG-Y3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

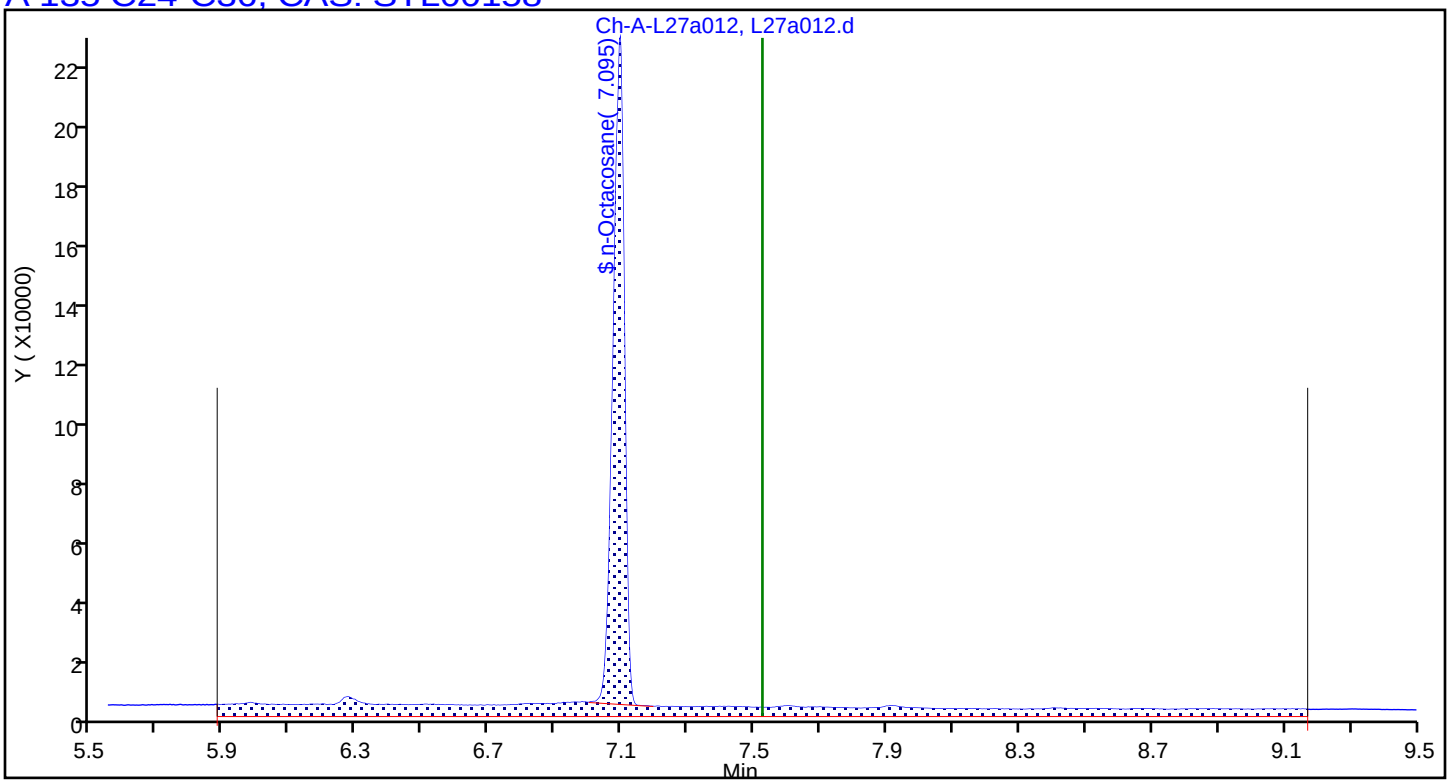


Report Date: 28-Dec-2018 09:02:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a012.d				
Injection Date:	27-Dec-2018 12:19:34	Instrument ID:	GC70A		
Lims ID:	720-90410-G-6-A	Lab Sample ID:	440-90410-6		
Client ID:	DG-Y3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: DG-AA3W | Lab Sample ID: 720-90410-8

Matrix: Water | Lab File ID: L27a013.d

Analysis Method: 8015B | Date Collected: 12/18/2018 15:30

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:13

Sample wt/vol: 890(mL) | Date Analyzed: 12/27/2018 12:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 519500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	280	J	560	110
STL00158	Motor Oil Range Organics [C24-C36]	210	J	560	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	53		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a013.d				
Lims ID:	720-90410-F-8-A				
Client ID:	DG-AA3W				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 12:41:36	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 09:03:13	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: doanm		Date:	28-Dec-2018 09:03:13		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.654	(2.040-7.268)		903136	249.3	
$ 127 n-Octacosane	7.088	7.092	-0.004	388913	105.7	
A 135 C24-C36	7.524	(5.878-9.170)		669416	184.8	

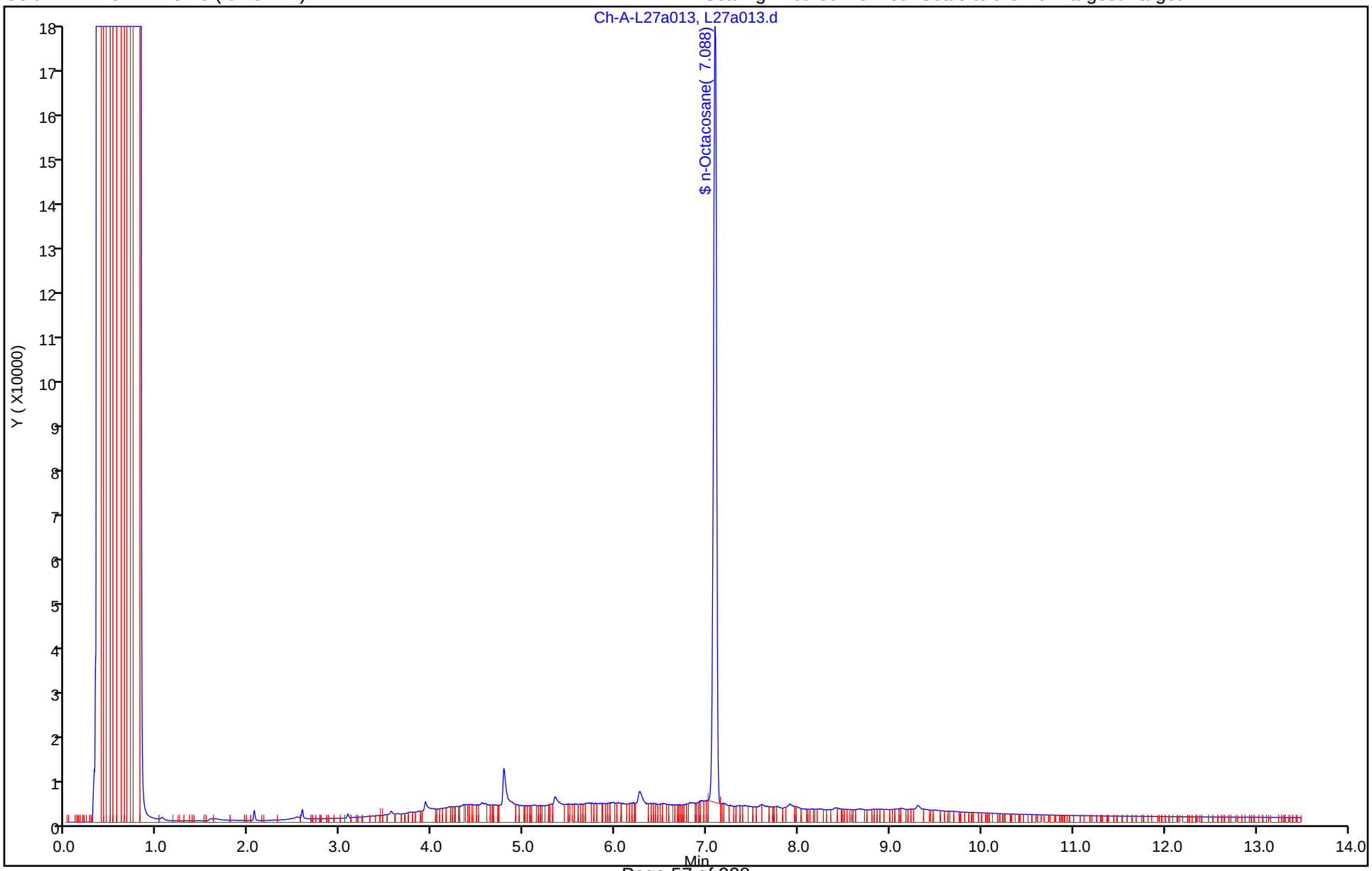
Report Date: 28-Dec-2018 09:03:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a013.d

Injection Date:	27-Dec-2018 12:41:36	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90410-F-8-A	Lab Sample ID:	440-90410-8	Worklist Smp#:	13
Client ID:	DG-AA3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a013.d				
Lims ID:	720-90410-F-8-A				
Client ID:	DG-AA3W				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 12:41:36	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 09:03:13	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: doanm Date: 28-Dec-2018 09:03:13

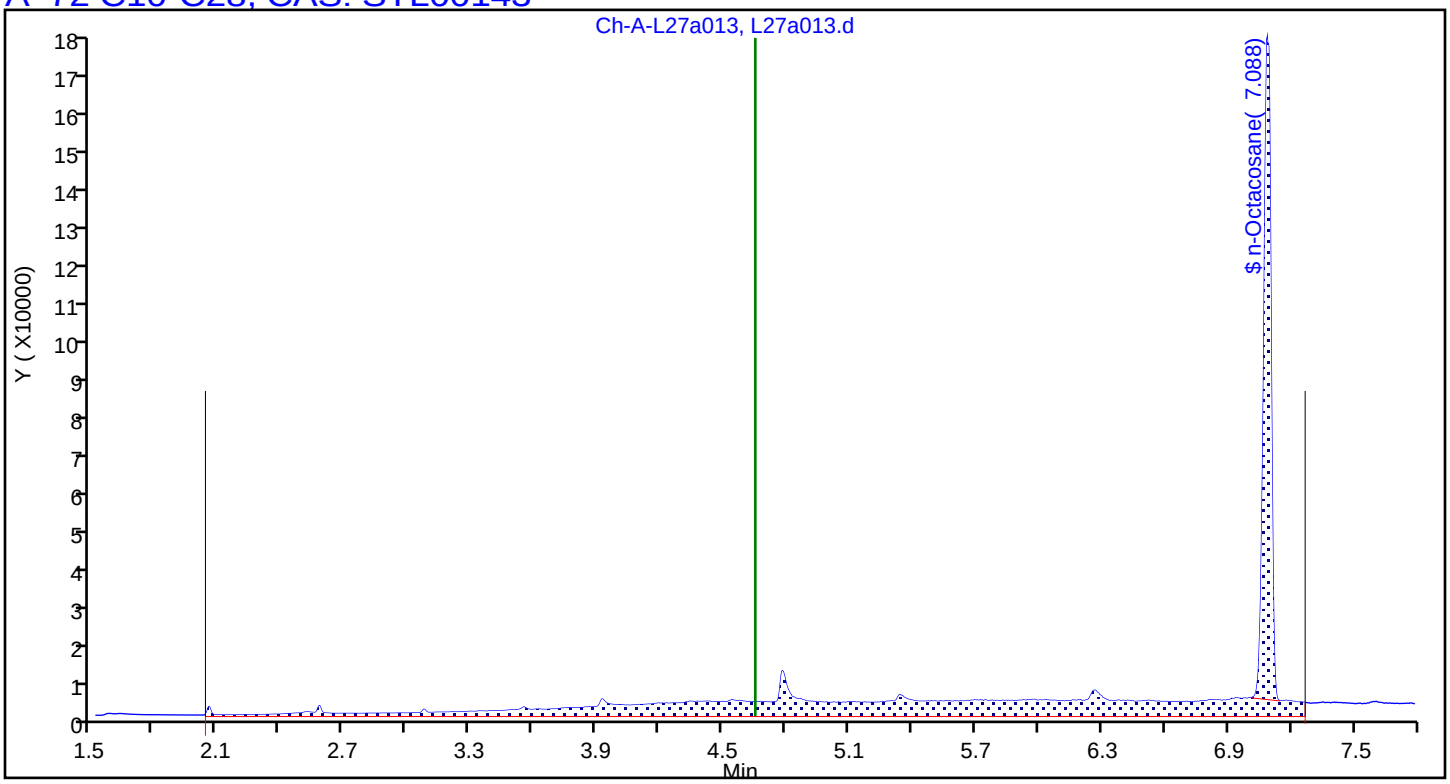
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	105.7	52.86
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 28-Dec-2018 09:03:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a013.d				
Injection Date:	27-Dec-2018 12:41:36	Instrument ID:	GC70A		
Lims ID:	720-90410-F-8-A	Lab Sample ID:	440-90410-8		
Client ID:	DG-AA3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

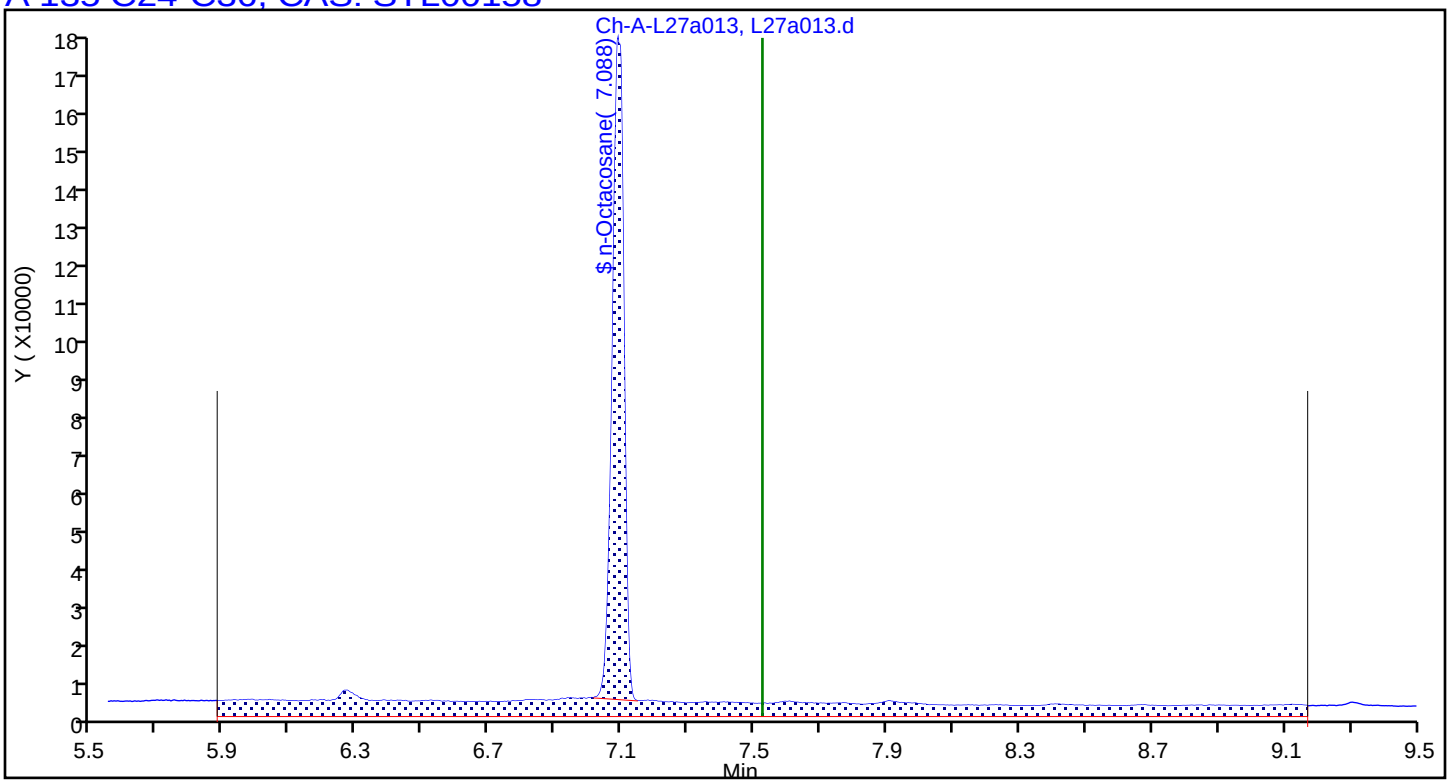


Report Date: 28-Dec-2018 09:03:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a013.d				
Injection Date:	27-Dec-2018 12:41:36	Instrument ID:	GC70A		
Lims ID:	720-90410-F-8-A	Lab Sample ID:	440-90410-8		
Client ID:	DG-AA3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: DUP-15 | Lab Sample ID: 720-90410-9

Matrix: Water | Lab File ID: L27a006.d

Analysis Method: 8015B | Date Collected: 12/18/2018 00:00

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:13

Sample wt/vol: 920(mL) | Date Analyzed: 12/27/2018 10:08

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 519500 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	310	J	1100	220
STL00158	Motor Oil Range Organics [C24-C36]	750	J	1100	220

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	70		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a006.d				
Lims ID:	720-90410-F-9-A				
Client ID:	DUP-15				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 10:08:03	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 08:59:35	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: doanm		Date:	28-Dec-2018 08:59:35		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.654	(2.040-7.268)		517753	142.9	
$ 127 n-Octacosane	7.102	7.092	0.010	259196	70.5	
A 135 C24-C36	7.524	(5.878-9.170)		1257828	347.3	

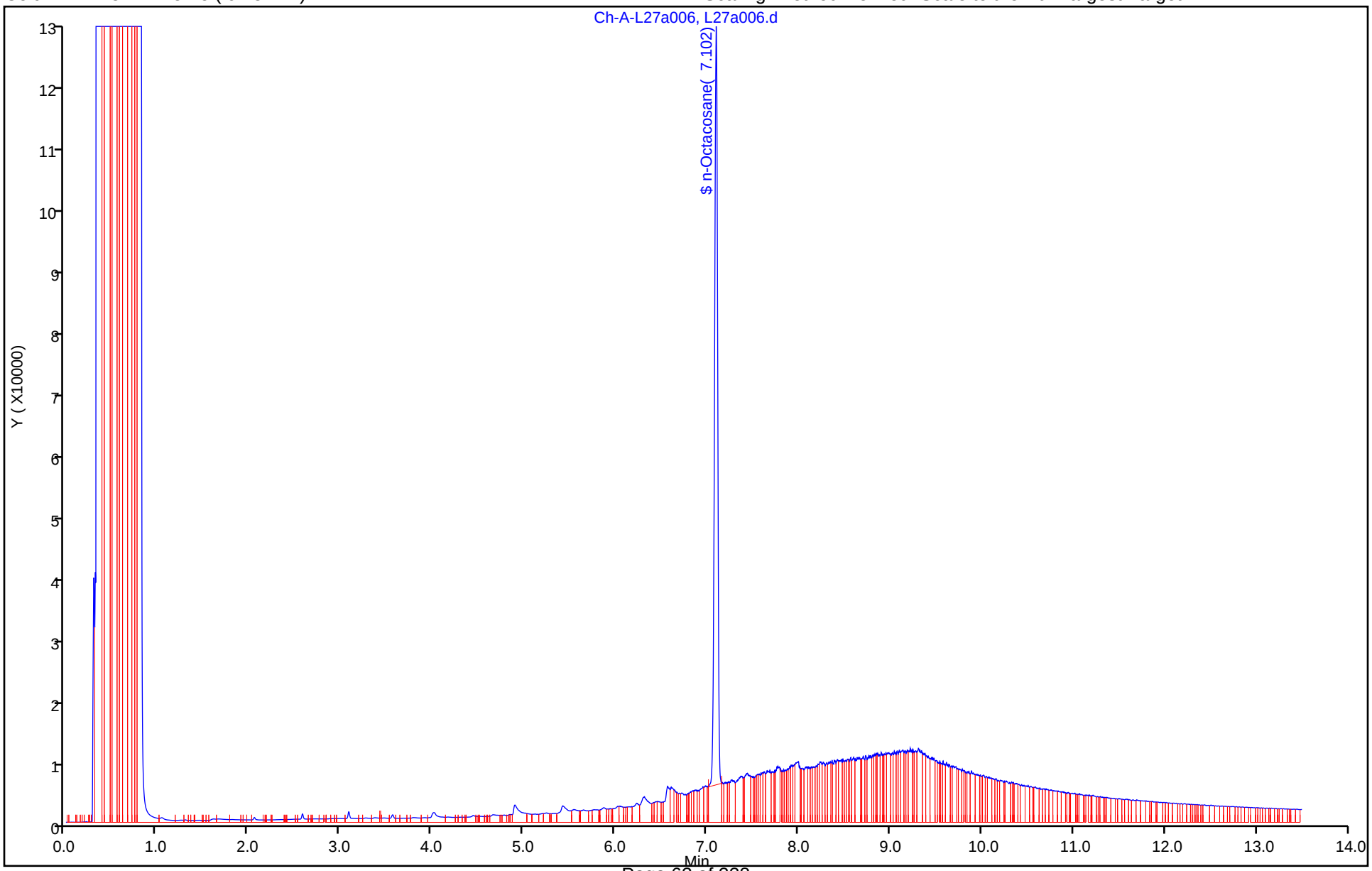
Report Date: 28-Dec-2018 08:59:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a006.d

Injection Date:	27-Dec-2018 10:08:03	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90410-F-9-A	Lab Sample ID:	440-90410-9	Worklist Smp#:	6
Client ID:	DUP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a006.d				
Lims ID:	720-90410-F-9-A				
Client ID:	DUP-15				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 10:08:03	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 08:59:35	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: doanm Date: 28-Dec-2018 08:59:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	70.5	70.46
$ 178 n-Triacontane-d62	0.0	0	0.00

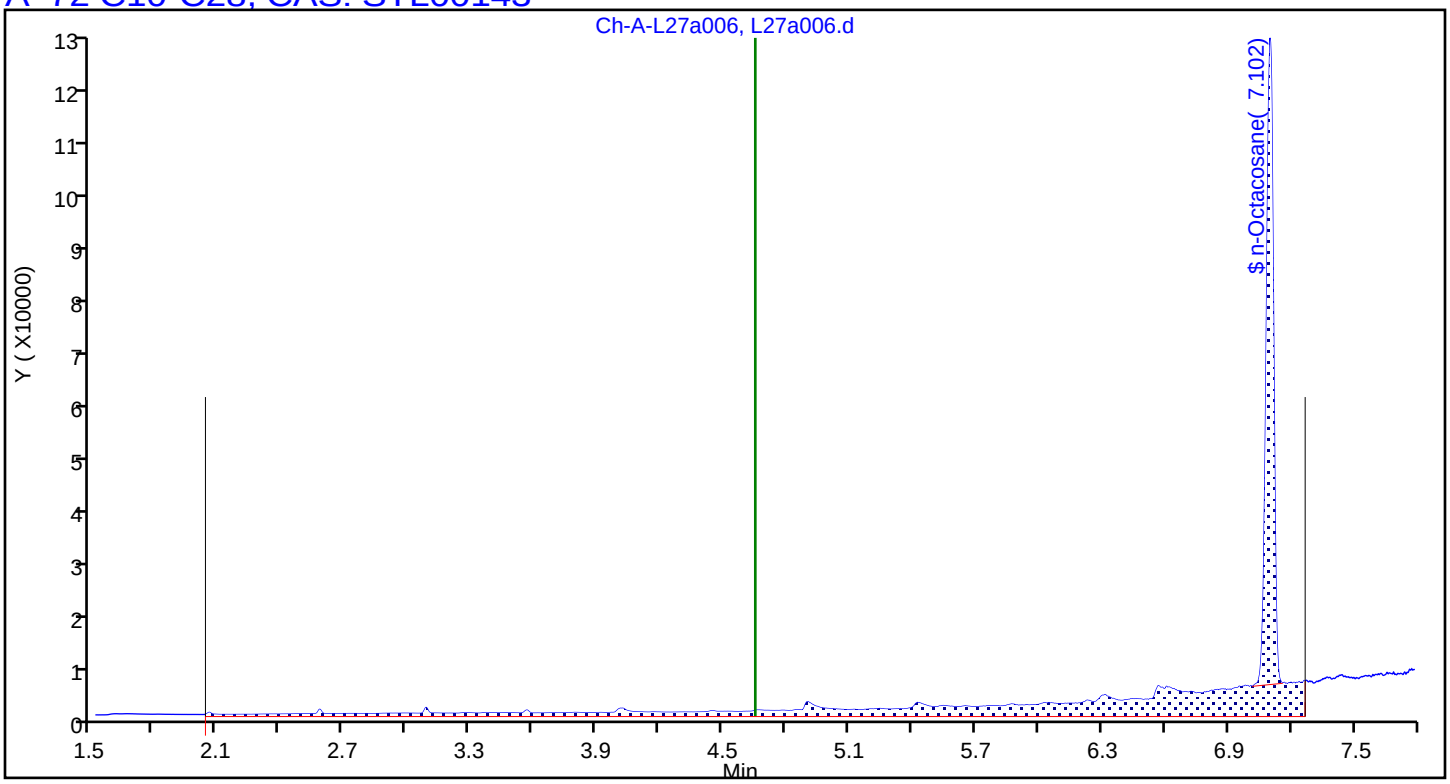
Report Date: 28-Dec-2018 08:59:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a006.d

Injection Date:	27-Dec-2018 10:08:03	Instrument ID:	GC70A		
Lims ID:	720-90410-F-9-A	Lab Sample ID:	440-90410-9		
Client ID:	DUP-15				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



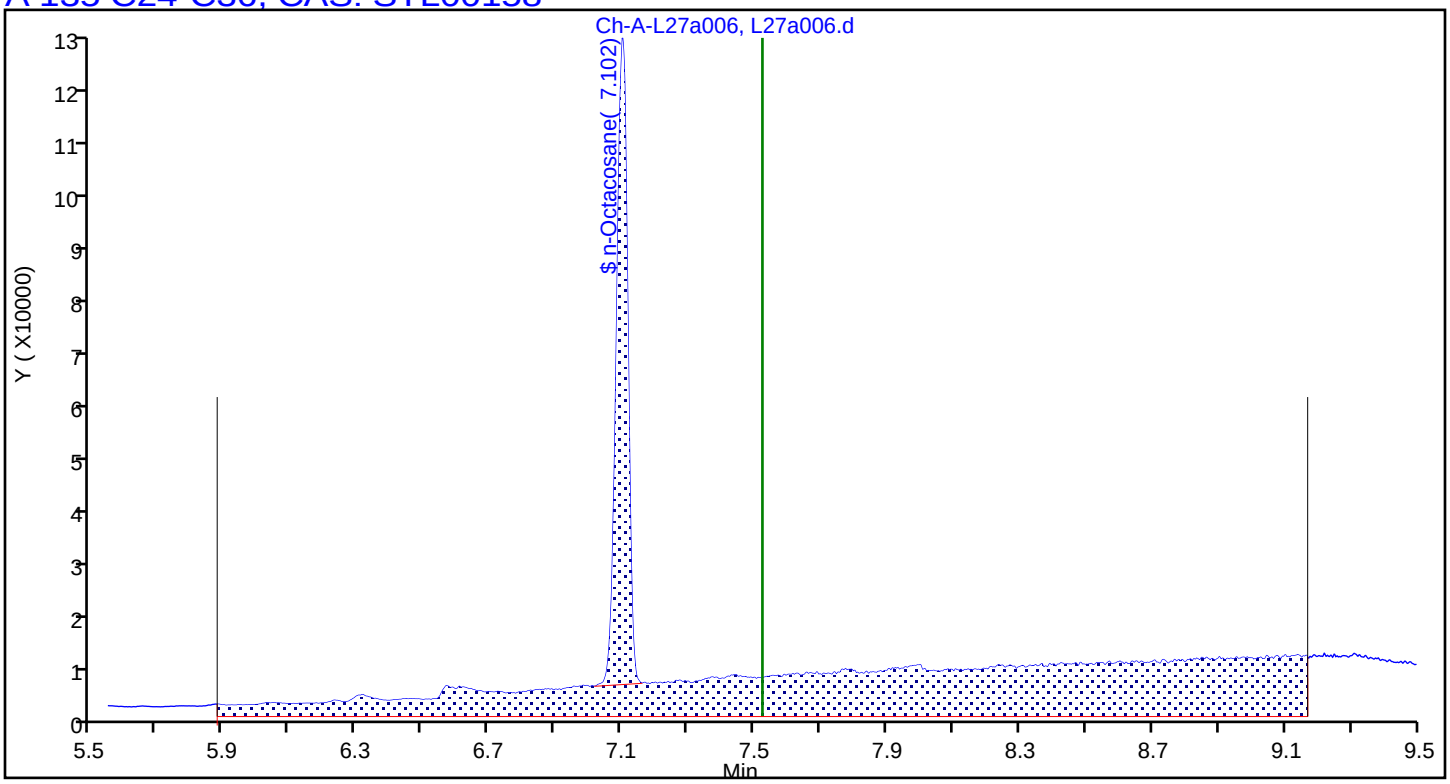
Report Date: 28-Dec-2018 08:59:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a006.d

Injection Date:	27-Dec-2018 10:08:03	Instrument ID:	GC70A		
Lims ID:	720-90410-F-9-A	Lab Sample ID:	440-90410-9		
Client ID:	DUP-15				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 501116

SDG No.:

Instrument ID: GC69A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2018 01:22 Calibration End Date: 09/26/2018 03:05 Calibration ID: 20022

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50PPM 440-501116/4	I24a083.d
Level 2	STD100PPM 440-501116/5	I24a084.d
Level 3	ICRT 440-501116/6	I24a085.d
Level 4	STD2KPPM 440-501116/7	I24a086.d
Level 5	STD6KPPM 440-501116/8	I24a087.d
Level 6	STD8KPPM 440-501116/9	I24a088.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Diesel Range Organics [C10-C28]	4.633	4.627	4.627	4.627	4.627	4.627					1.903 - 7.350	4.628
n-Octacosane	7.163	7.167	7.172	7.180	7.185	7.188					7.150 - 7.210	7.176

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 501116

SDG No.:

Instrument ID: GC69A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2018 01:22 Calibration End Date: 09/26/2018 03:05 Calibration ID: 20022

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50PPM 440-501116/4	I24a083.d
Level 2	STD100PPM 440-501116/5	I24a084.d
Level 3	ICRT 440-501116/6	I24a085.d
Level 4	STD2KPPM 440-501116/7	I24a086.d
Level 5	STD6KPPM 440-501116/8	I24a087.d
Level 6	STD8KPPM 440-501116/9	I24a088.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Diesel Range Organics [C10-C28]	3647.8 3197.9	3395.9 3218.6	3188.9	3173.7	Ave		3303.79801				5.7		20.0			
n-Octacosane	3196.0 3281.0	3229.5 3273.1	3283.3	3285.4	Ave		3258.03639				1.1		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 501116

SDG No.:

Instrument ID: GC69A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/26/2018 01:22 Calibration End Date: 09/26/2018 03:05 Calibration ID: 20022

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50PPM 440-501116/4	I24a083.d
Level 2	STD100PPM 440-501116/5	I24a084.d
Level 3	ICRT 440-501116/6	I24a085.d
Level 4	STD2KPPM 440-501116/7	I24a086.d
Level 5	STD6KPPM 440-501116/8	I24a087.d
Level 6	STD8KPPM 440-501116/9	I24a088.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Diesel Range Organics [C10-C28]	Ave	182392 25748966	339585	2391638	6347494	19187278	50.0 8000	100	750	2000	6000
n-Octacosane	Ave	159800 981933	322945	492494	657073	820250	50.0 300	100	150	200	250

Curve Type Legend:
Ave = Average

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a083.d				
Lims ID:	STD50PPM				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	26-Sep-2018 01:22:31	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	26-Sep-2018 12:44:16	Calib Date:	26-Sep-2018 03:05:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX1005				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.633	(1.903-7.350)		182392	50.0	55.2	
$ 127 n-Octacosane	7.163	7.180	-0.017	159800	50.0	49.0	

Reagents:

gc8015dslCAL1_00033 Amount Added: 1.00 Units: mL

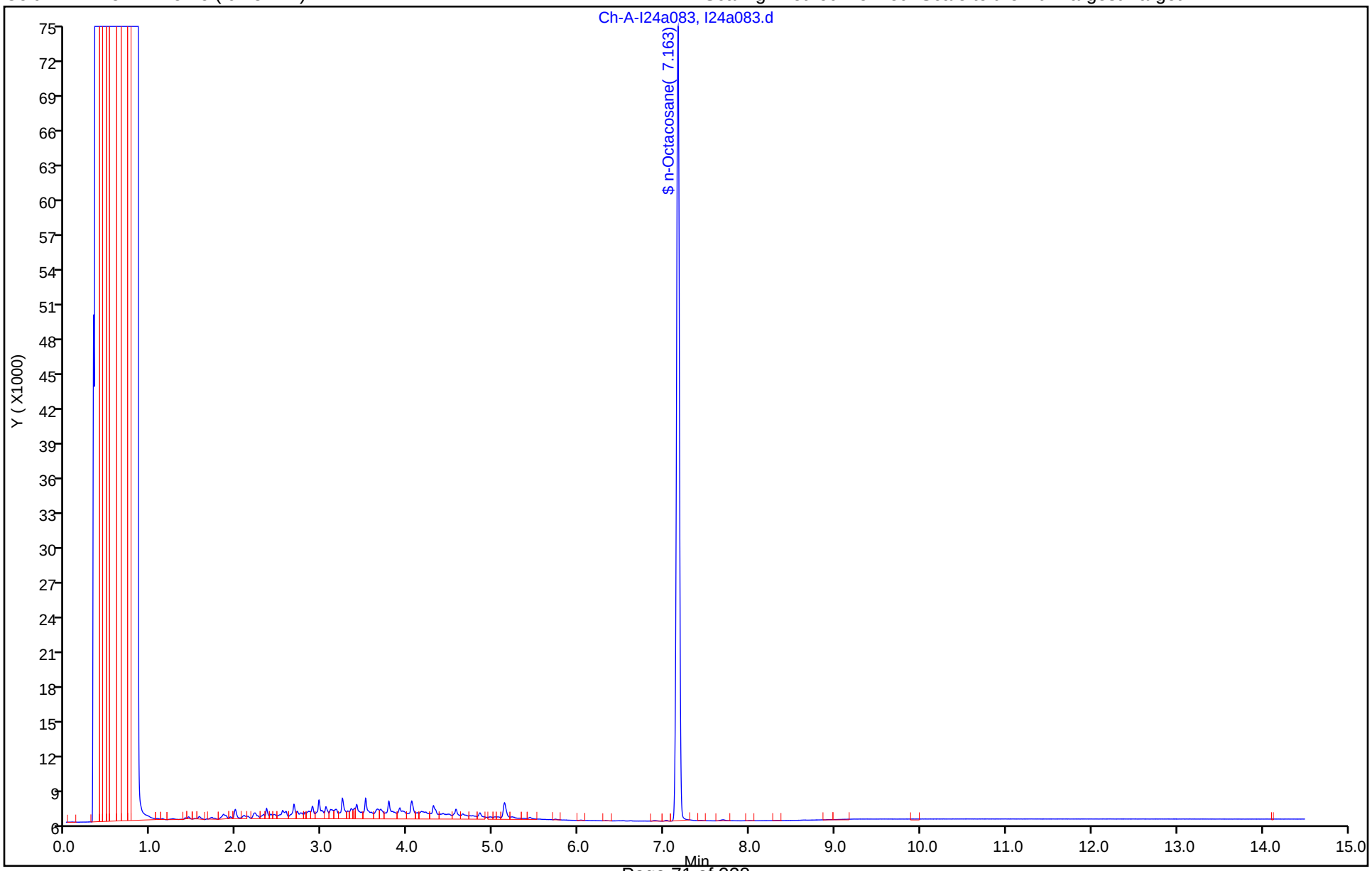
Report Date: 26-Sep-2018 12:44:16 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a083.d

Injection Date:	26-Sep-2018 01:22:31	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD50PPM			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 26-Sep-2018 12:44:16 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a083.d

Injection Date: 26-Sep-2018 01:22:31 Instrument ID: GC69A

Lims ID: STD50PPM

Client ID:

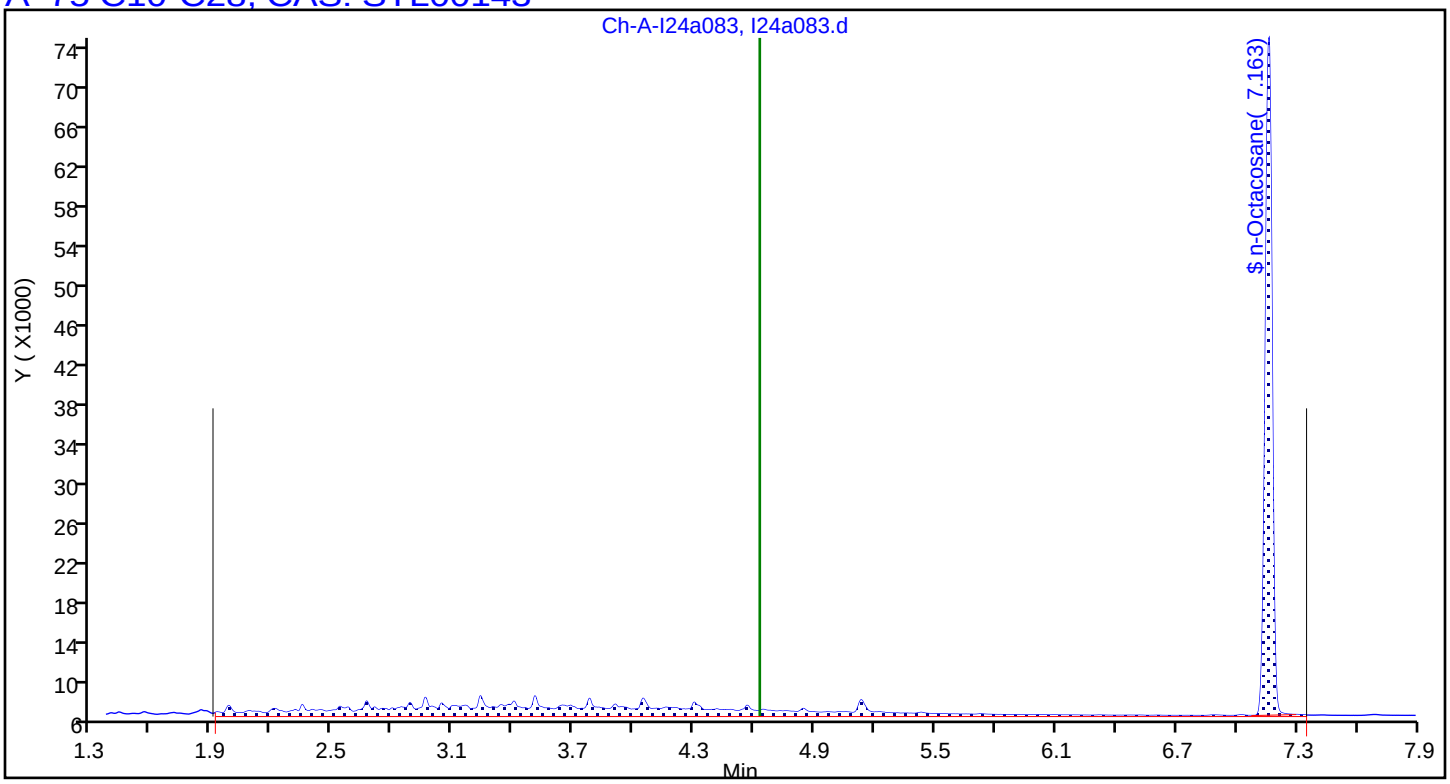
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a084.d				
Lims ID:	STD100PPM				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	26-Sep-2018 01:42:53	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	26-Sep-2018 12:44:16	Calib Date:	26-Sep-2018 03:05:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX1005				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.627	(1.903-7.350)		339585	100.0	102.8	
$ 127 n-Octacosane	7.167	7.180	-0.013	322945	100.0	99.1	

Reagents:

gc8015dslCAL2_00034 Amount Added: 1.00 Units: mL

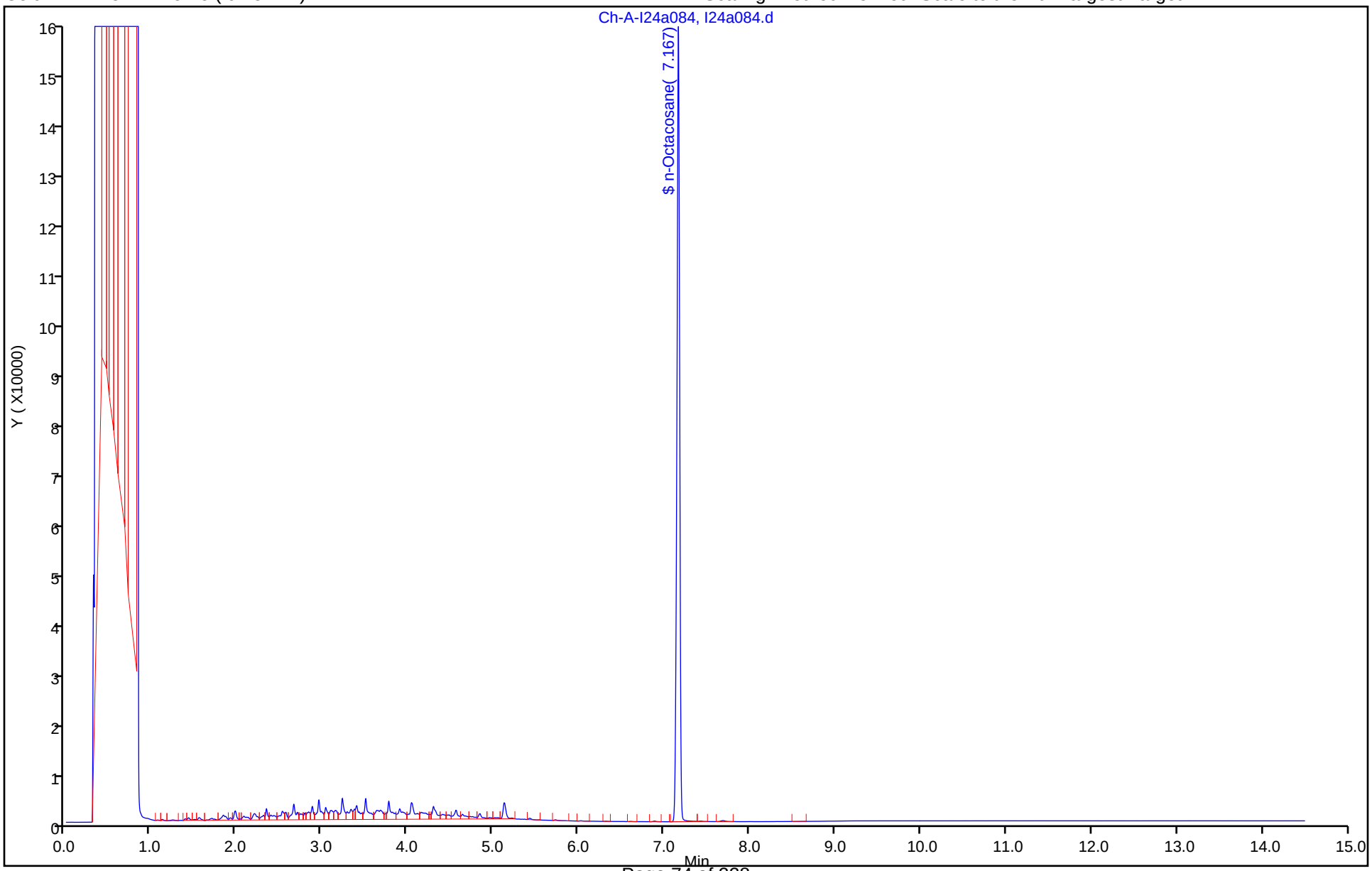
Report Date: 26-Sep-2018 12:44:17 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a084.d

Injection Date:	26-Sep-2018 01:42:53	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD100PPM			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 26-Sep-2018 12:44:17 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a084.d

Injection Date: 26-Sep-2018 01:42:53 Instrument ID: GC69A

Lims ID: STD100PPM

Client ID:

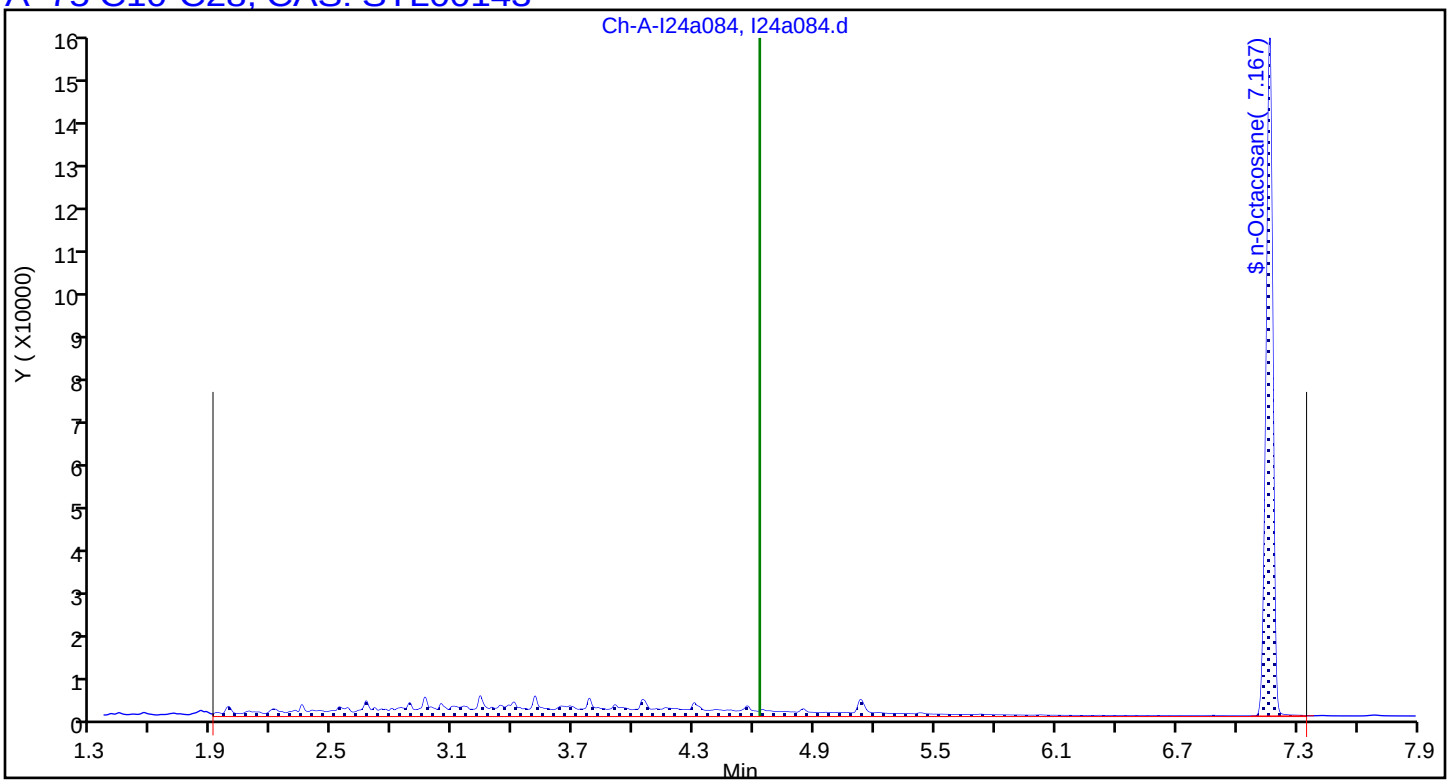
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a085.d				
Lims ID:	STD750PPM				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	26-Sep-2018 02:03:25	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	26-Sep-2018 12:44:17	Calib Date:	26-Sep-2018 03:05:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX1005				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.627	(1.903-7.350)		2391638	750.0	723.9	
$ 127 n-Octacosane	7.172	7.180	-0.008	492494	150.0	151.2	

Reagents:

gc8015dslCAL3_00032 Amount Added: 1.00 Units: mL

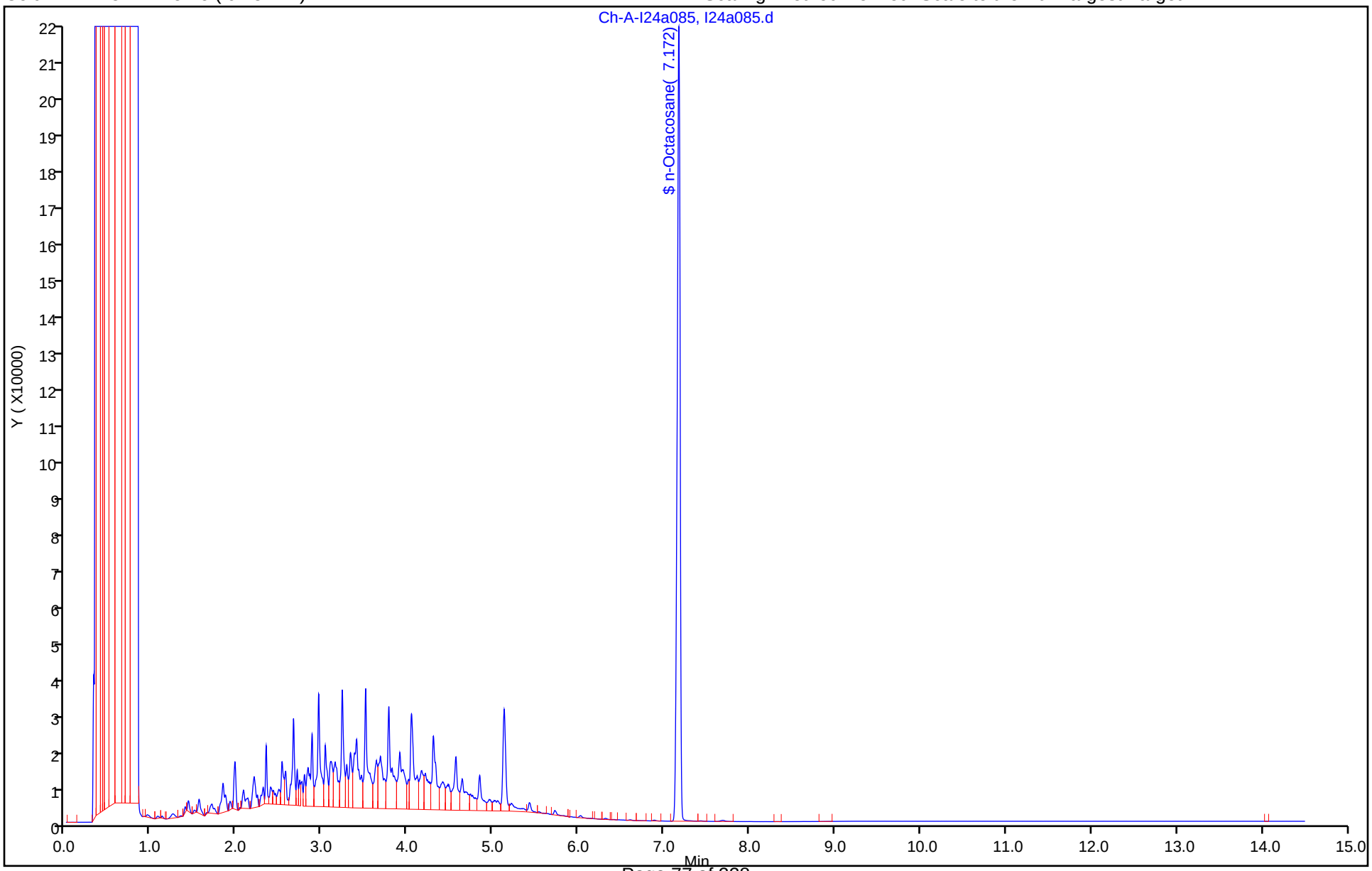
Report Date: 26-Sep-2018 12:44:18 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a085.d

Injection Date:	26-Sep-2018 02:03:25	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD750PPM			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 26-Sep-2018 12:44:18 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a085.d

Injection Date: 26-Sep-2018 02:03:25 Instrument ID: GC69A

Lims ID: STD750PPM

Client ID:

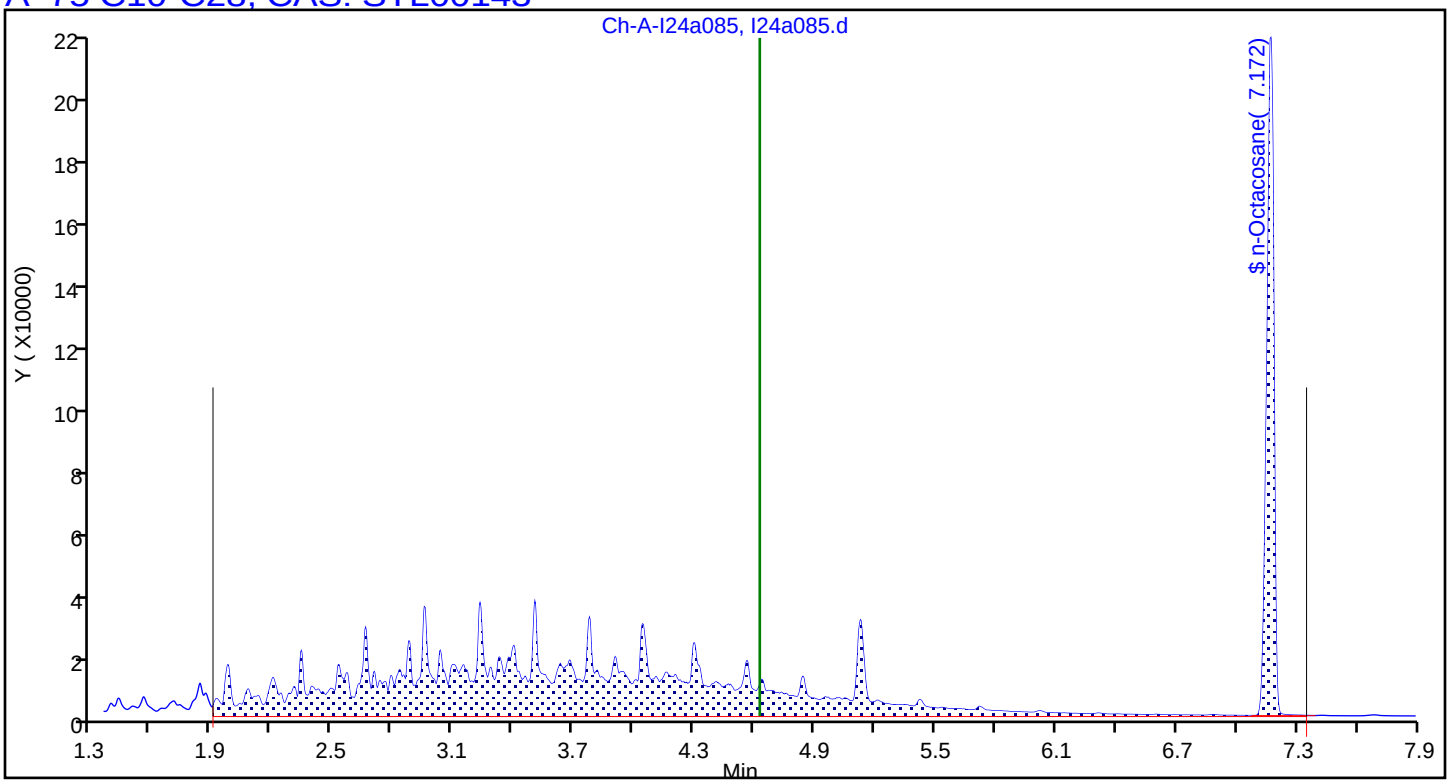
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a086.d				
Lims ID:	STD2KPPM				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	26-Sep-2018 02:23:51	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	26-Sep-2018 12:44:19	Calib Date:	26-Sep-2018 03:05:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX1005				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.627	(1.903-7.350)		6347494	2000.0	1921.3	
$ 127 n-Octacosane	7.180	7.180	0.000	657073	200.0	201.7	

Reagents:

gc8015dslCAL4_00032 Amount Added: 1.00 Units: mL

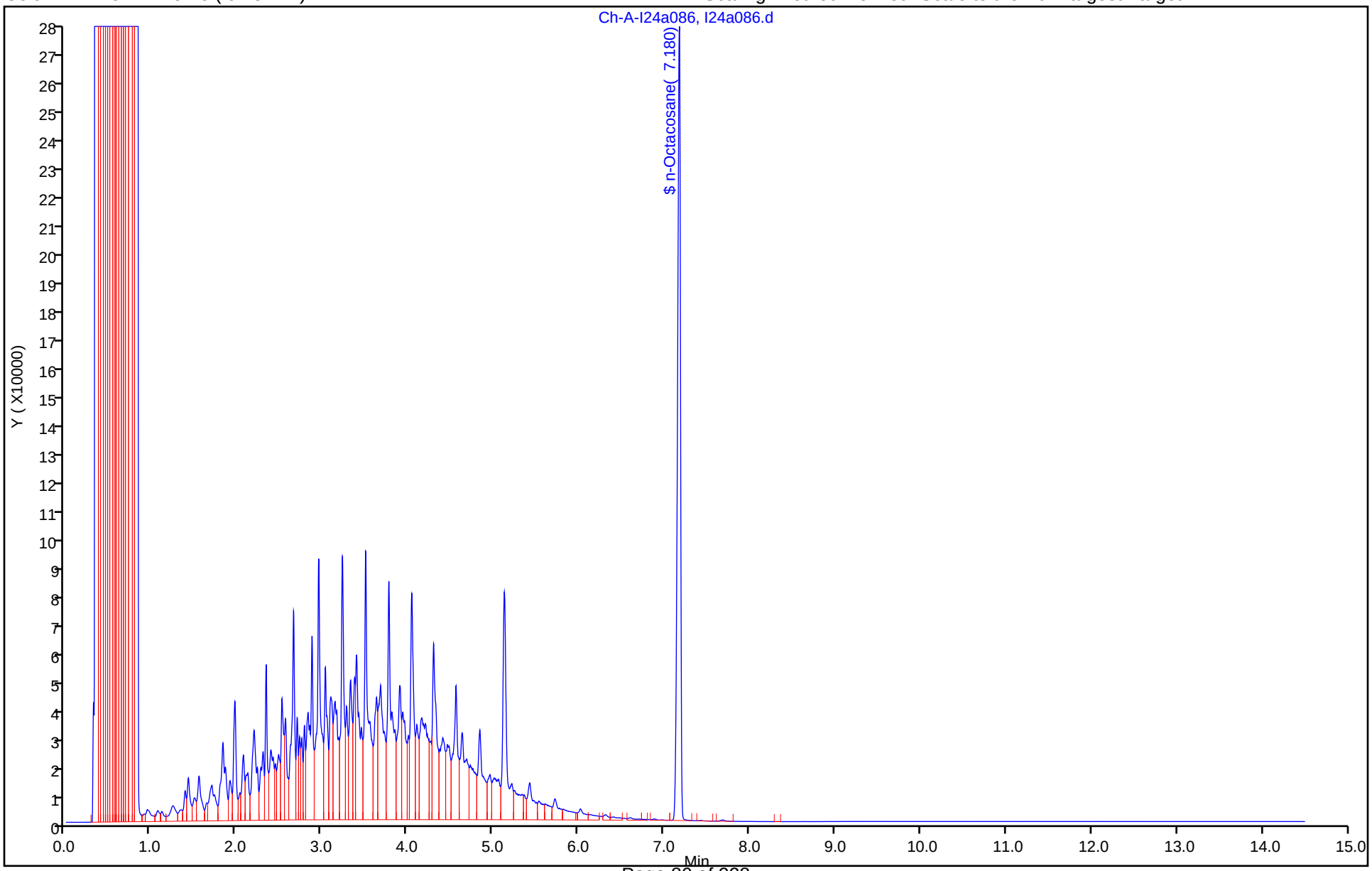
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TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a086.d

Injection Date:	26-Sep-2018 02:23:51	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD2KPPM			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

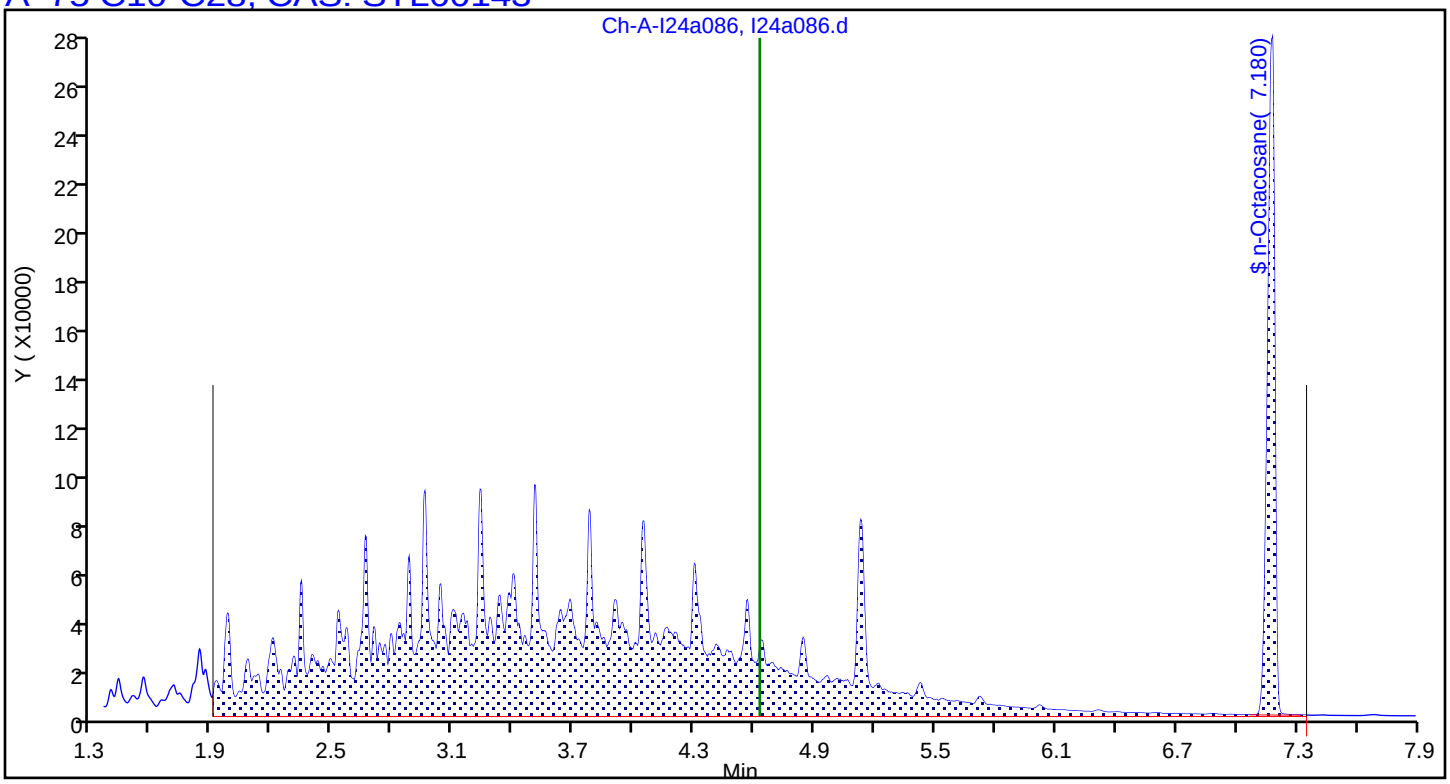


Report Date: 26-Sep-2018 12:44:20 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a086.d				
Injection Date:	26-Sep-2018 02:23:51	Instrument ID:	GC69A		
Lims ID:	STD2KPPM				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a087.d				
Lims ID:	STD6KPPM				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	26-Sep-2018 02:44:19	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	26-Sep-2018 12:44:20	Calib Date:	26-Sep-2018 03:05:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX1005				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.627	(1.903-7.350)		19187278	6000.0	5807.6	
$ 127 n-Octacosane	7.185	7.180	0.005	820250	250.0	251.8	

Reagents:

gc8015dslCAL5_00031 Amount Added: 1.00 Units: mL

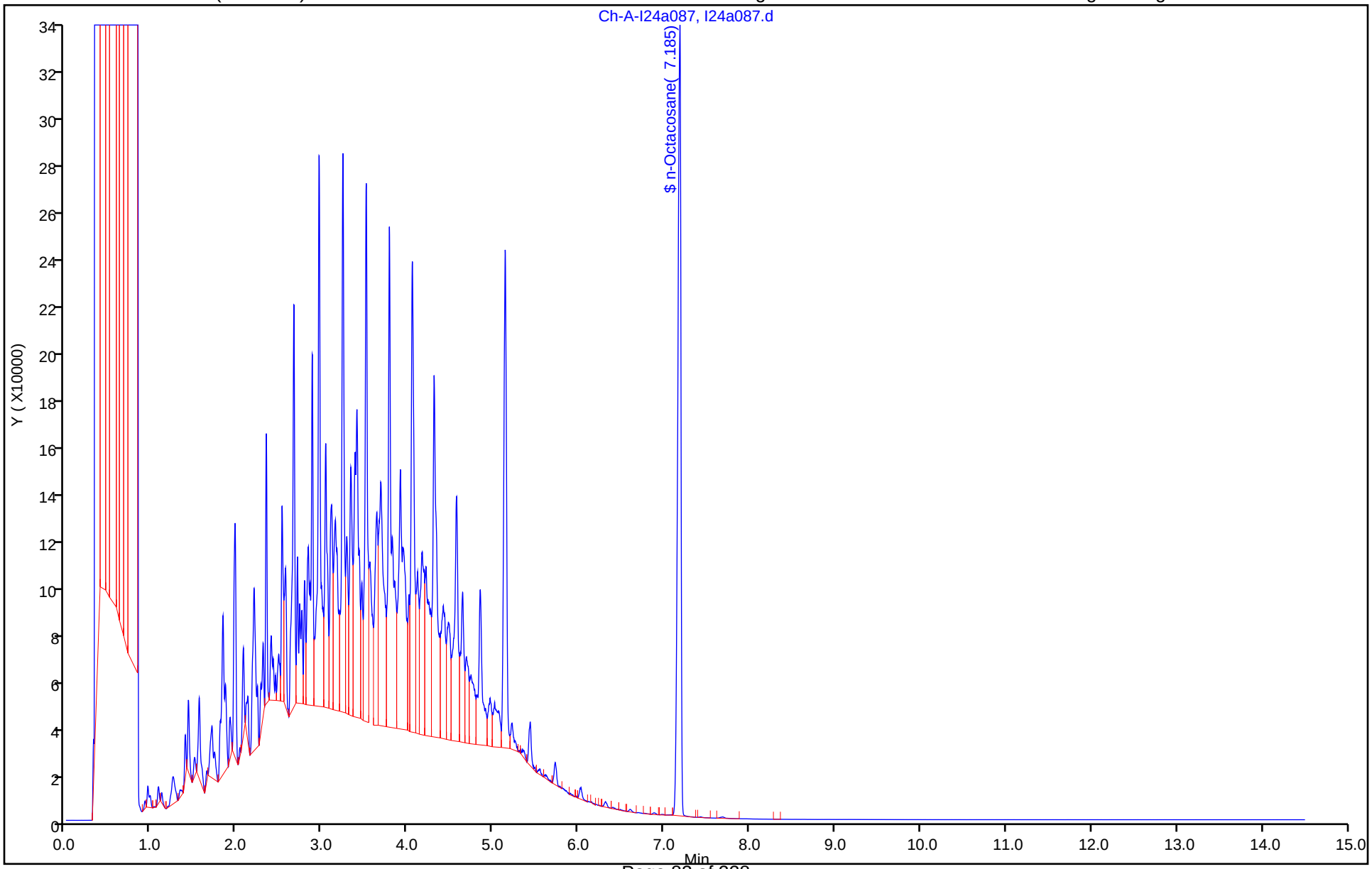
Report Date: 26-Sep-2018 12:44:21 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a087.d

Injection Date:	26-Sep-2018 02:44:19	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD6KPPM			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 26-Sep-2018 12:44:21 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a087.d

Injection Date: 26-Sep-2018 02:44:19 Instrument ID: GC69A

Lims ID: STD6KPPM

Client ID:

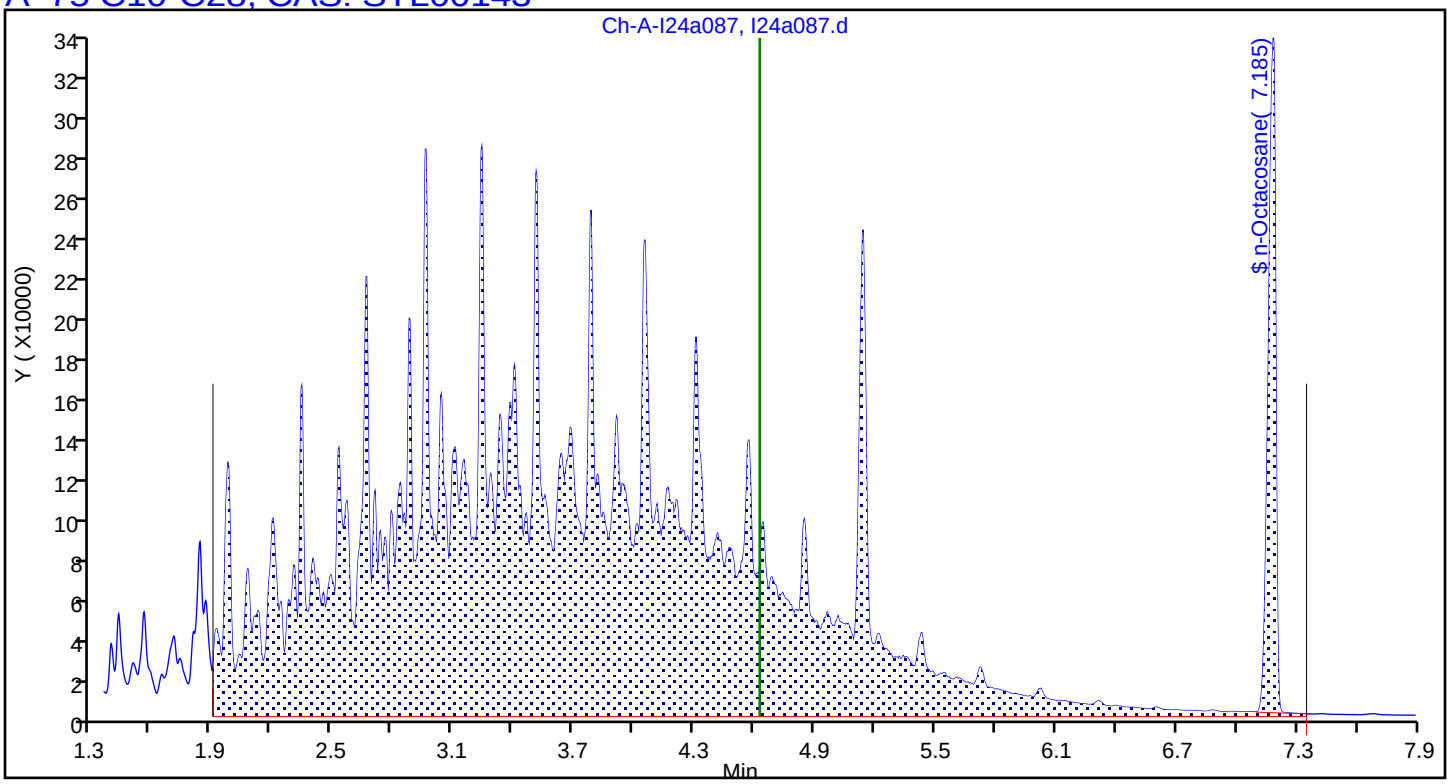
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Lims ID:	STD8KPPM				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	26-Sep-2018 03:05:05	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	26-Sep-2018 12:44:22	Calib Date:	26-Sep-2018 03:05:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX1005				
First Level Reviewer: deckd		Date:	26-Sep-2018 12:41:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.627	(1.903-7.350)		25748966	8000.0	7793.7	
$ 127 n-Octacosane	7.188	7.180	0.008	981933	300.0	301.4	

Reagents:

gc8015dslCAL6_00031 Amount Added: 1.00 Units: mL

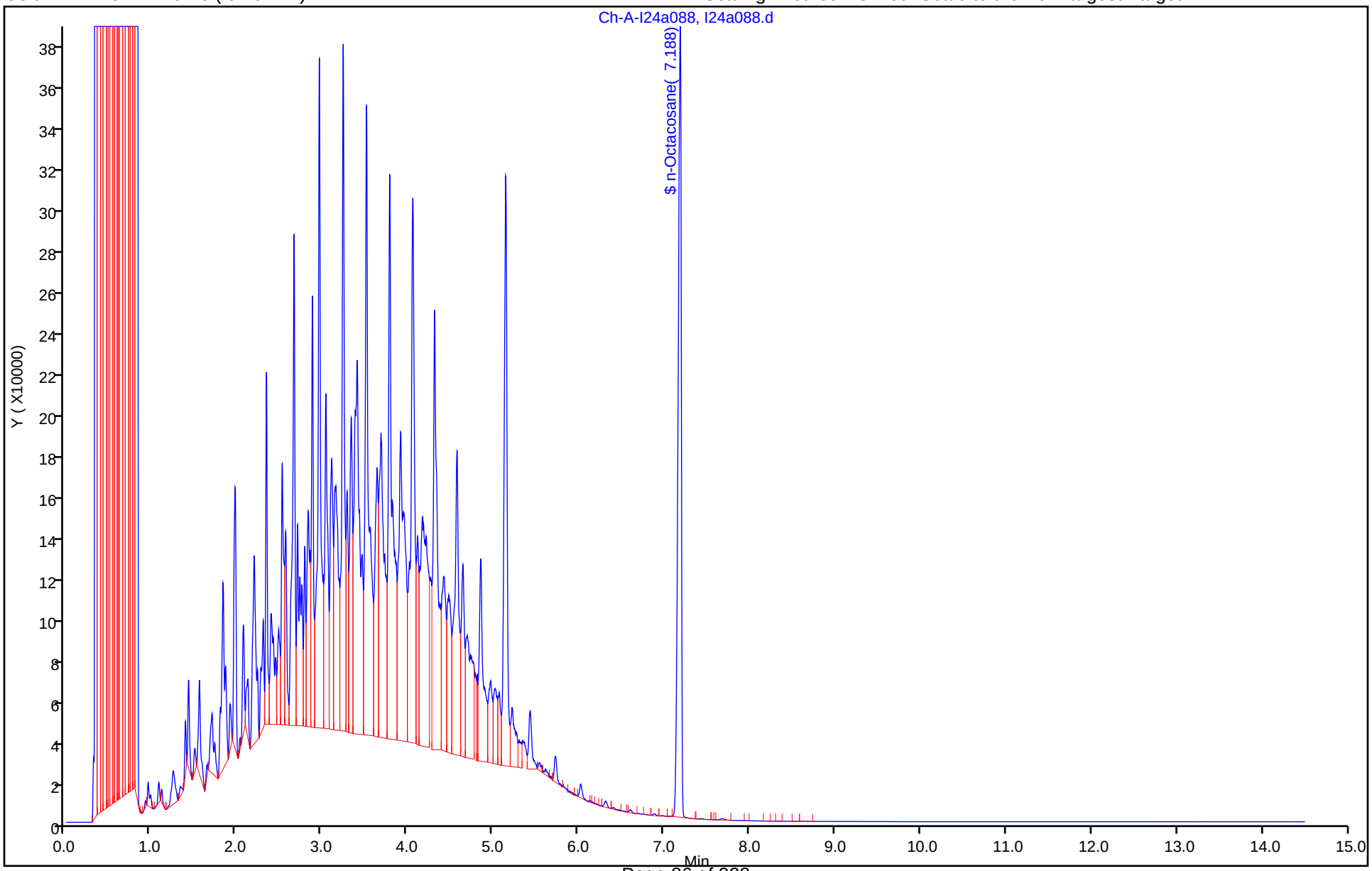
Report Date: 26-Sep-2018 12:44:22 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d

Injection Date:	26-Sep-2018 03:05:05	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD8KPPM			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

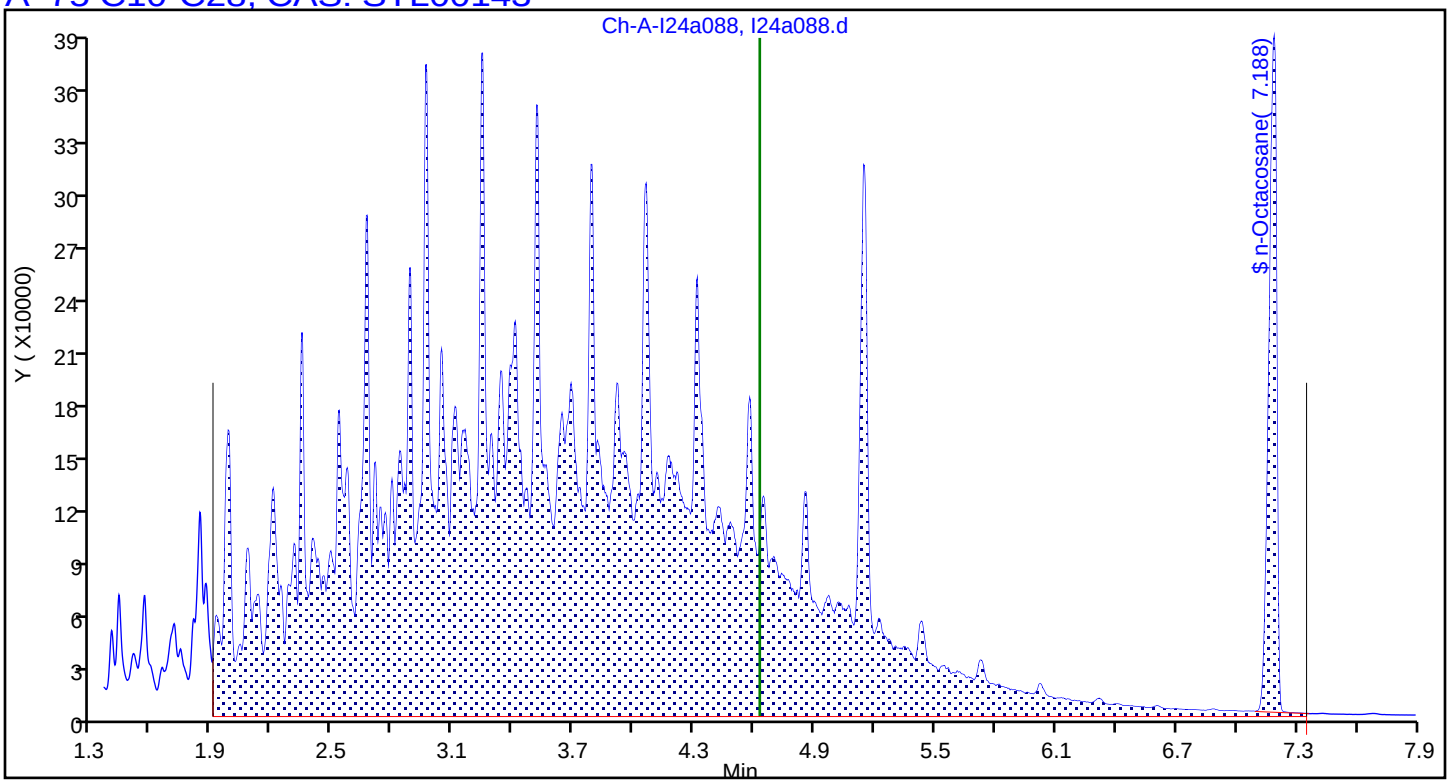


Report Date: 26-Sep-2018 12:44:22 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Irvine

Data File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Injection Date:	26-Sep-2018 03:05:05	Instrument ID:	GC69A		
Lims ID:	STD8KPPM				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143



Calibration / C10-C28

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

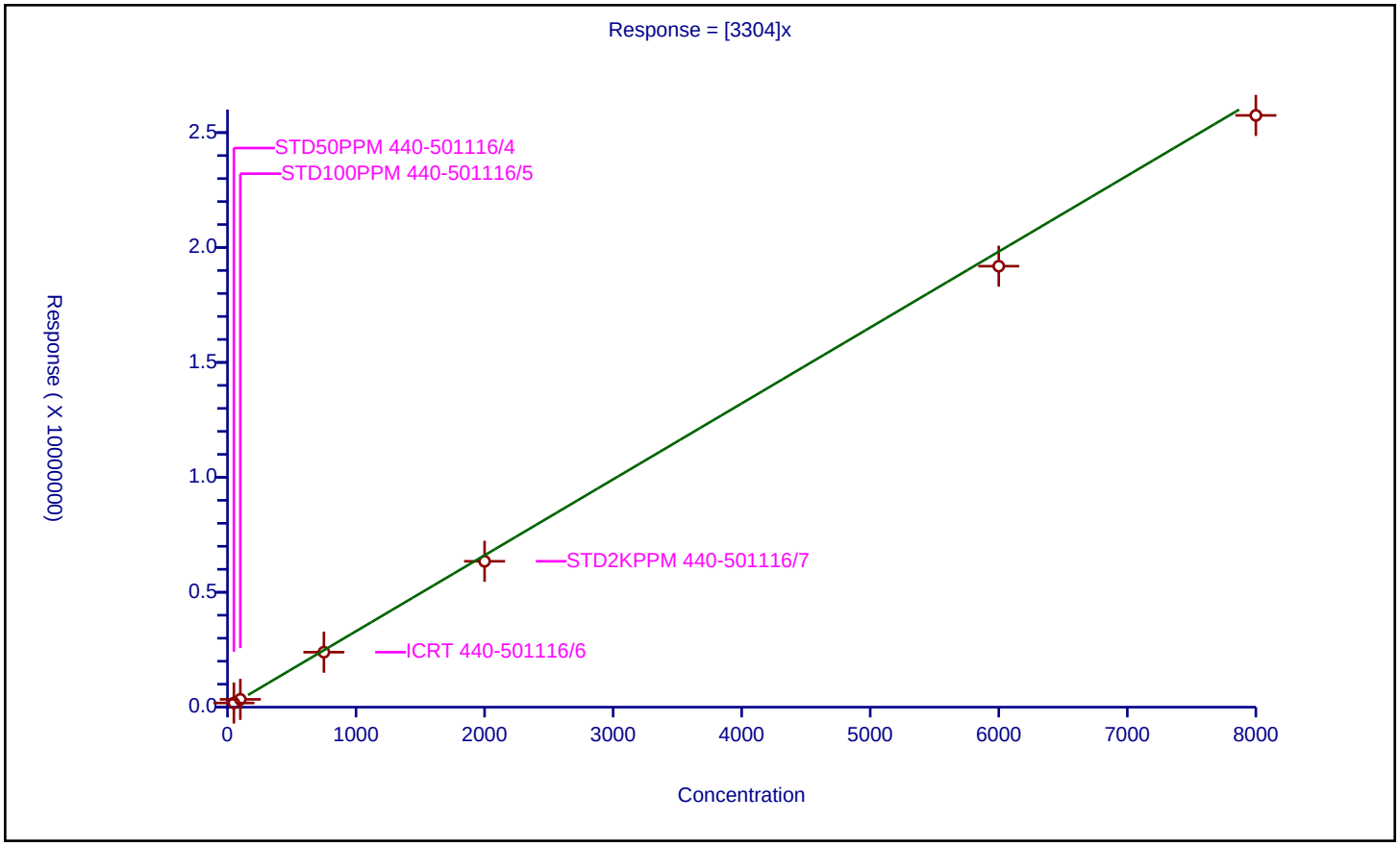
Curve Coefficients

Intercept:	0
Slope:	3304

Error Coefficients

Standard Error:	434000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	STD50PPM 440-501116/4	50.0	182392.0			3647.84	Y
2	STD100PPM 440-501116/5	100.0	339585.0			3395.85	Y
3	ICRT 440-501116/6	750.0	2391638.0			3188.850667	Y
4	STD2KPPM 440-501116/7	2000.0	6347494.0			3173.747	Y
5	STD6KPPM 440-501116/8	6000.0	19187278.0			3197.879667	Y
6	STD8KPPM 440-501116/9	8000.0	25748966.0			3218.62075	Y



Calibration / n-Octacosane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

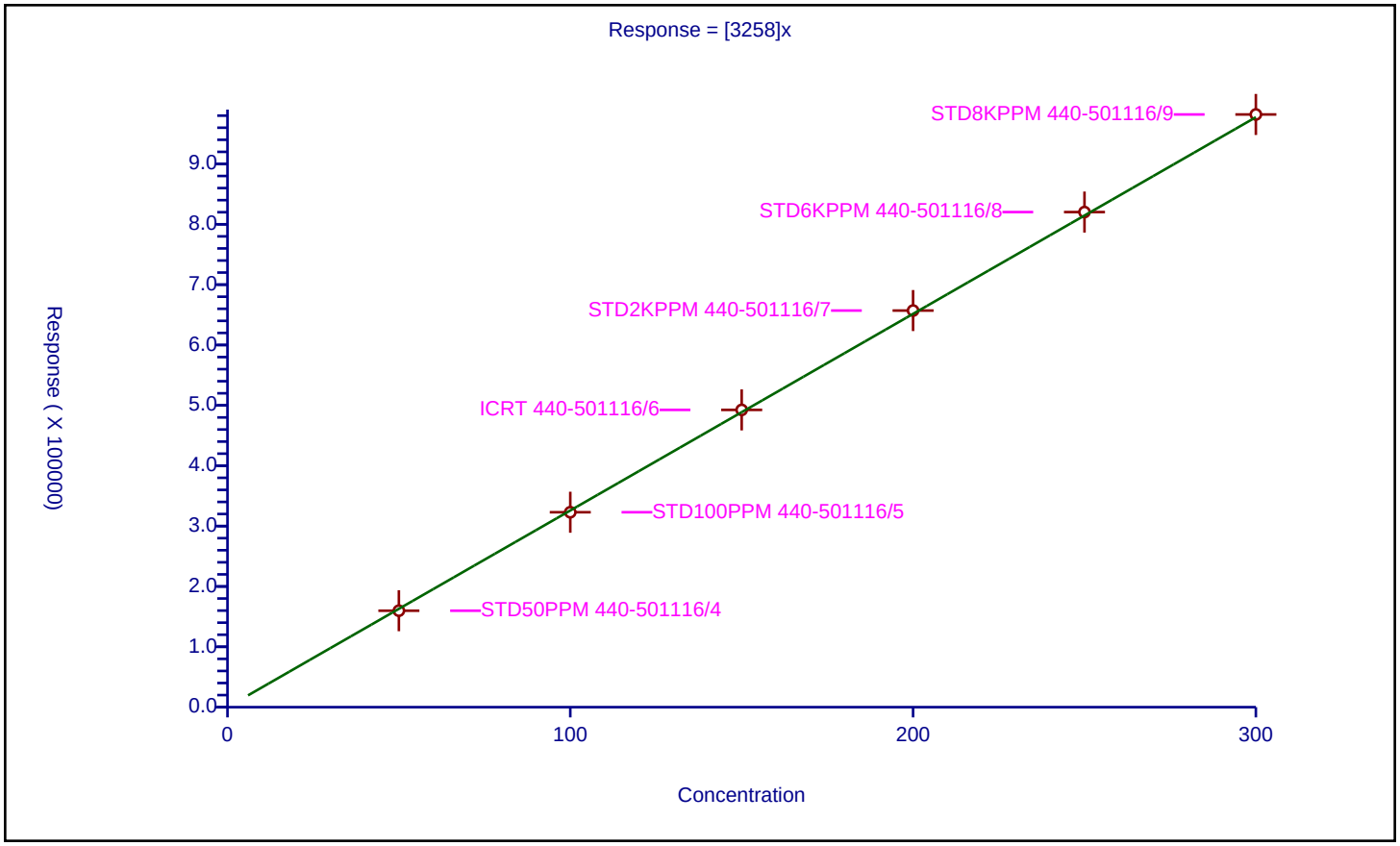
Curve Coefficients

Intercept:	0
Slope:	3258

Error Coefficients

Standard Error:	4800
Relative Standard Error:	1.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	STD50PPM 440-501116/4	50.0	159800.0			3196.0	Y
2	STD100PPM 440-501116/5	100.0	322945.0			3229.45	Y
3	ICRT 440-501116/6	150.0	492494.0			3283.293333	Y
4	STD2KPPM 440-501116/7	200.0	657073.0			3285.365	Y
5	STD6KPPM 440-501116/8	250.0	820250.0			3281.0	Y
6	STD8KPPM 440-501116/9	300.0	981933.0			3273.11	Y



FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 518682

SDG No.:

Instrument ID: GC69A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2018 12:10 Calibration End Date: 12/21/2018 12:10 Calibration ID: 20633

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD100PPM 440-518682/5	L21a013.d

ANALYTE	LVL 1										RT WINDOW	AVG RT
n-Decanoic Acid (Surr)	3.295										3.195 - 3.395	3.295

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 518682

SDG No.:

Instrument ID: GC69A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2018 12:10 Calibration End Date: 12/21/2018 12:10 Calibration ID: 20633

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD100PPM 440-518682/5	L21a013.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
n-Decanoic Acid (Surr)	2195.3				Ave		2195.34900						20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 518682

SDG No.:

Instrument ID: GC69A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2018 12:10 Calibration End Date: 12/21/2018 12:10 Calibration ID: 20633

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD100PPM 440-518682/5	L21a013.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1					LVL 1				
n-Decanoic Acid (Surr)	Ave	2195349					1000				

Curve Type Legend:

Ave = Average

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Lims ID:	STD100PPM				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	21-Dec-2018 12:10:46	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub8				
Method:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Dec-2018 15:08:47	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0316				
First Level Reviewer: doanm		Date:	21-Dec-2018 15:08:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 42 n-Decanoic Acid (Surr)	3.295	3.295	0.000	2195349	1000.0	1000.0	

Reagents:

gc8015decanoi_00048 Amount Added: 0.10 Units: mL

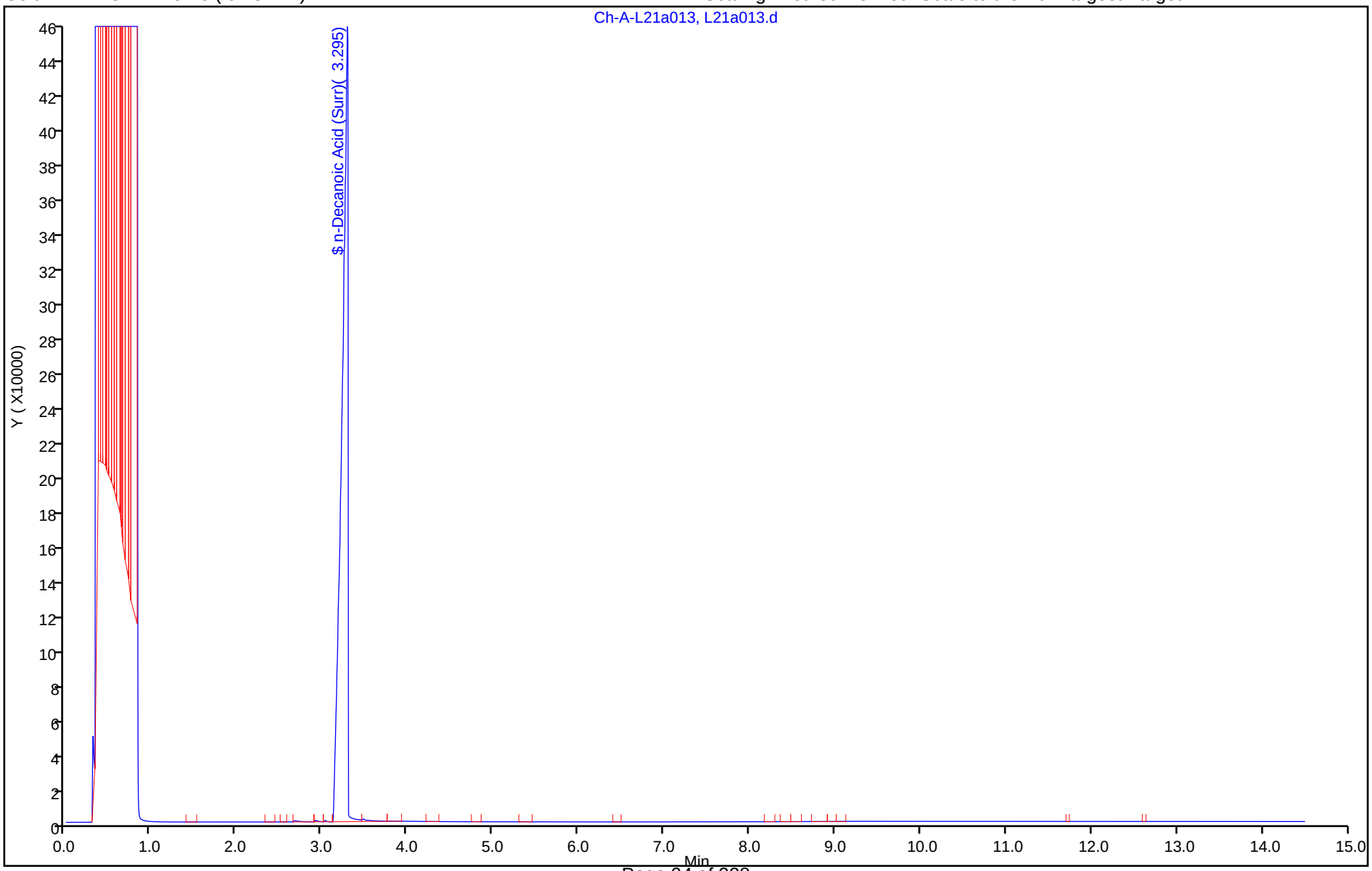
Report Date: 21-Dec-2018 15:08:47 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d

Injection Date:	21-Dec-2018 12:10:46	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD100PPM			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI

DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA

RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 469391

SDG No.:

Instrument ID: GC70A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2018 21:51 Calibration End Date: 04/10/2018 23:38 Calibration ID: 19048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50PPM 440-469391/8	D10a008.d
Level 2	STD100PPM 440-469391/9	D10a009.d
Level 3	STD750PPM 440-469391/10	D10a010.d
Level 4	STD2000PPM 440-469391/11	D10a011.d
Level 5	STD6000PPM 440-469391/12	D10a012.d
Level 6	STD8000PPM 440-469391/13	D10a013.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Diesel Range Organics [C10-C28]	4.733	4.733	4.733	4.733	4.733	4.733					2.065 - 7.402	4.733
n-Octacosane	7.213	7.210	7.220	7.220	7.227	7.230					7.120 - 7.320	7.220

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 469391

SDG No.:

Instrument ID: GC70A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2018 21:51 Calibration End Date: 04/10/2018 23:38 Calibration ID: 19048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50PPM 440-469391/8	D10a008.d
Level 2	STD100PPM 440-469391/9	D10a009.d
Level 3	STD750PPM 440-469391/10	D10a010.d
Level 4	STD2000PPM 440-469391/11	D10a011.d
Level 5	STD6000PPM 440-469391/12	D10a012.d
Level 6	STD8000PPM 440-469391/13	D10a013.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Diesel Range Organics [C10-C28]	4224.5 3400.8	3701.0 3369.3	3582.5	3454.7	Ave		3622.12940				8.8		20.0			
n-Octacosane	3999.3 3526.6	3839.0 3458.8	3615.3	3634.4	Ave		3678.87100				5.5		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Irvine Job No.: 720-90410-1 Analy Batch No.: 469391

SDG No.:

Instrument ID: GC70A GC Column: ZB-5HT Infe ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2018 21:51 Calibration End Date: 04/10/2018 23:38 Calibration ID: 19048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD50PPM 440-469391/8	D10a008.d
Level 2	STD100PPM 440-469391/9	D10a009.d
Level 3	STD750PPM 440-469391/10	D10a010.d
Level 4	STD2000PPM 440-469391/11	D10a011.d
Level 5	STD6000PPM 440-469391/12	D10a012.d
Level 6	STD8000PPM 440-469391/13	D10a013.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Diesel Range Organics [C10-C28]	Ave	211226 26954406	370097	2686893	6909308	20404846	50.0 8000	100	750	2000	6000
n-Octacosane	Ave	199964 1037625	383897	542289	726870	881654	50.0 300	100	150	200	250

Curve Type Legend:
Ave = Average

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a008.d				
Lims ID:	STD50PPM				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	10-Apr-2018 21:51:12	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	20-Apr-2018 08:12:37	Calib Date:	10-Apr-2018 23:38:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	XAWRK018				
First Level Reviewer: hipea		Date:	20-Apr-2018 08:10:51		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.733	(2.065-7.402)		211226	50.0	58.3	
$ 127 n-Octacosane	7.213	7.220	-0.007	199964	50.0	54.4	

Reagents:

gc8015dslCAL1_00032 Amount Added: 1.00 Units: mL

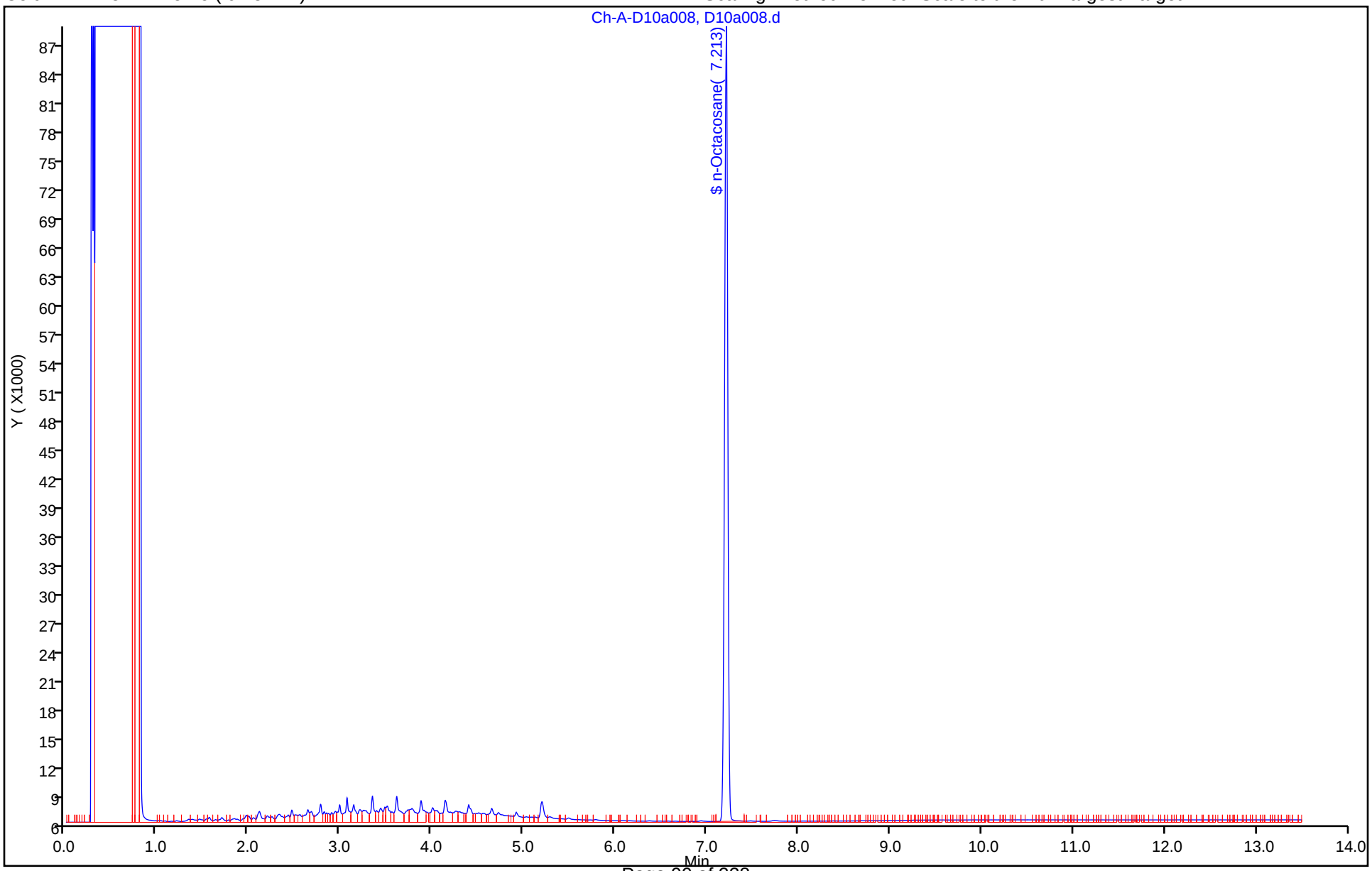
Report Date: 20-Apr-2018 08:12:38 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a008.d

Injection Date:	10-Apr-2018 21:51:12	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD50PPM			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



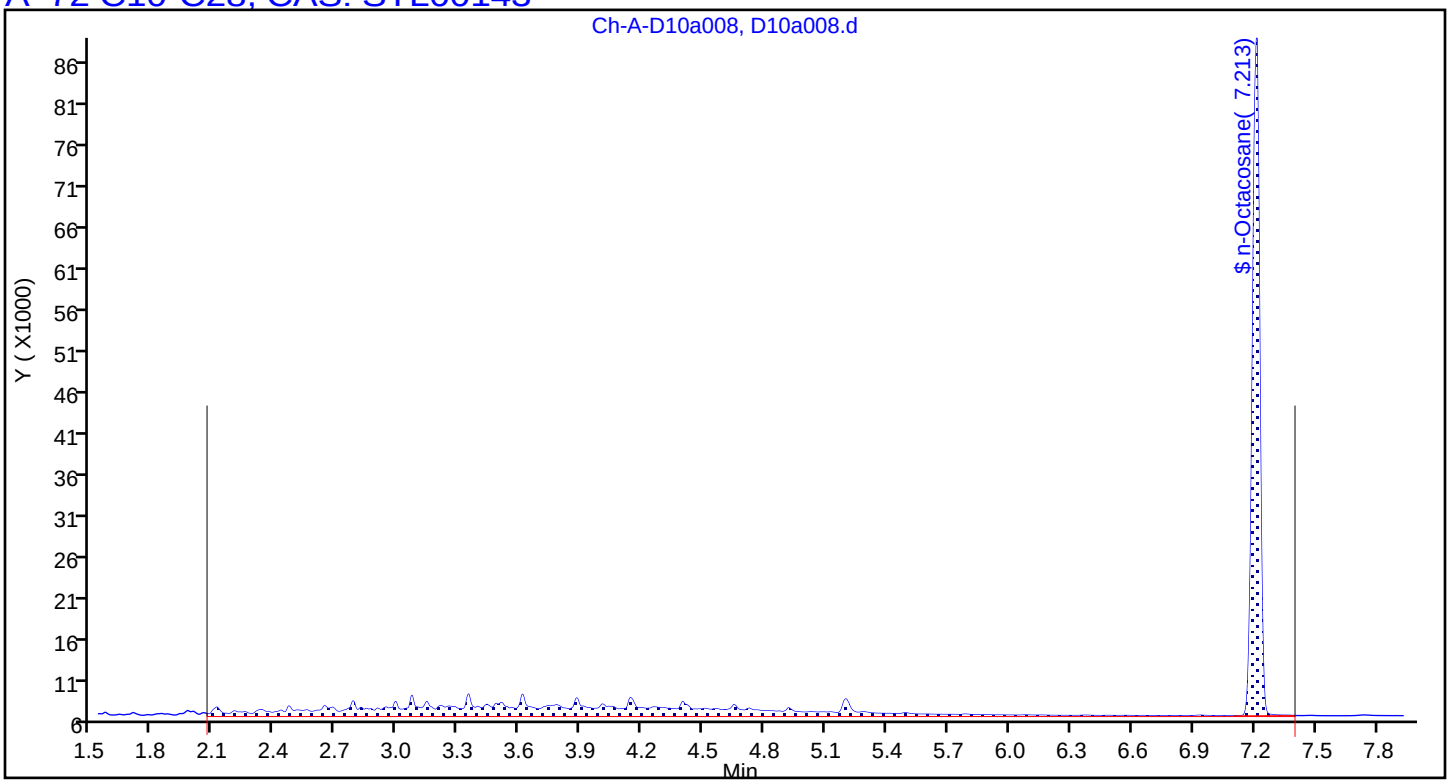
Report Date: 20-Apr-2018 08:12:39 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a008.d

Injection Date:	10-Apr-2018 21:51:12	Instrument ID:	GC70A		
Lims ID:	STD50PPM				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a009.d				
Lims ID:	STD100PPM				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	10-Apr-2018 22:12:42	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	20-Apr-2018 08:12:39	Calib Date:	10-Apr-2018 23:38:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	XAWRK018				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.733	(2.065-7.402)		370097	100.0	102.2	
$ 127 n-Octacosane	7.210	7.220	-0.010	383897	100.0	104.4	

Reagents:

gc8015dslCAL2_00032 Amount Added: 1.00 Units: mL

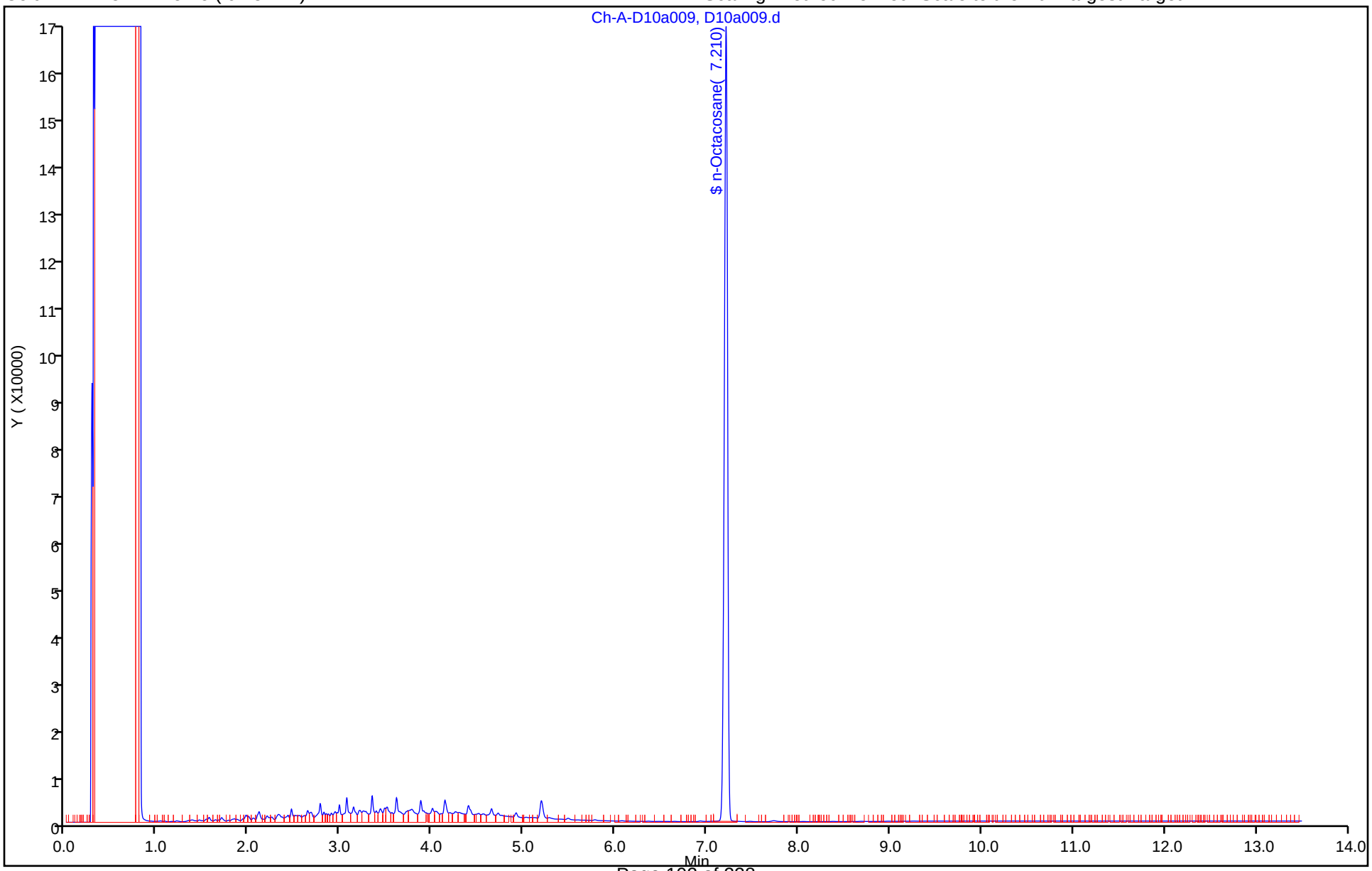
Report Date: 20-Apr-2018 08:12:40 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a009.d

Injection Date:	10-Apr-2018 22:12:42	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD100PPM			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



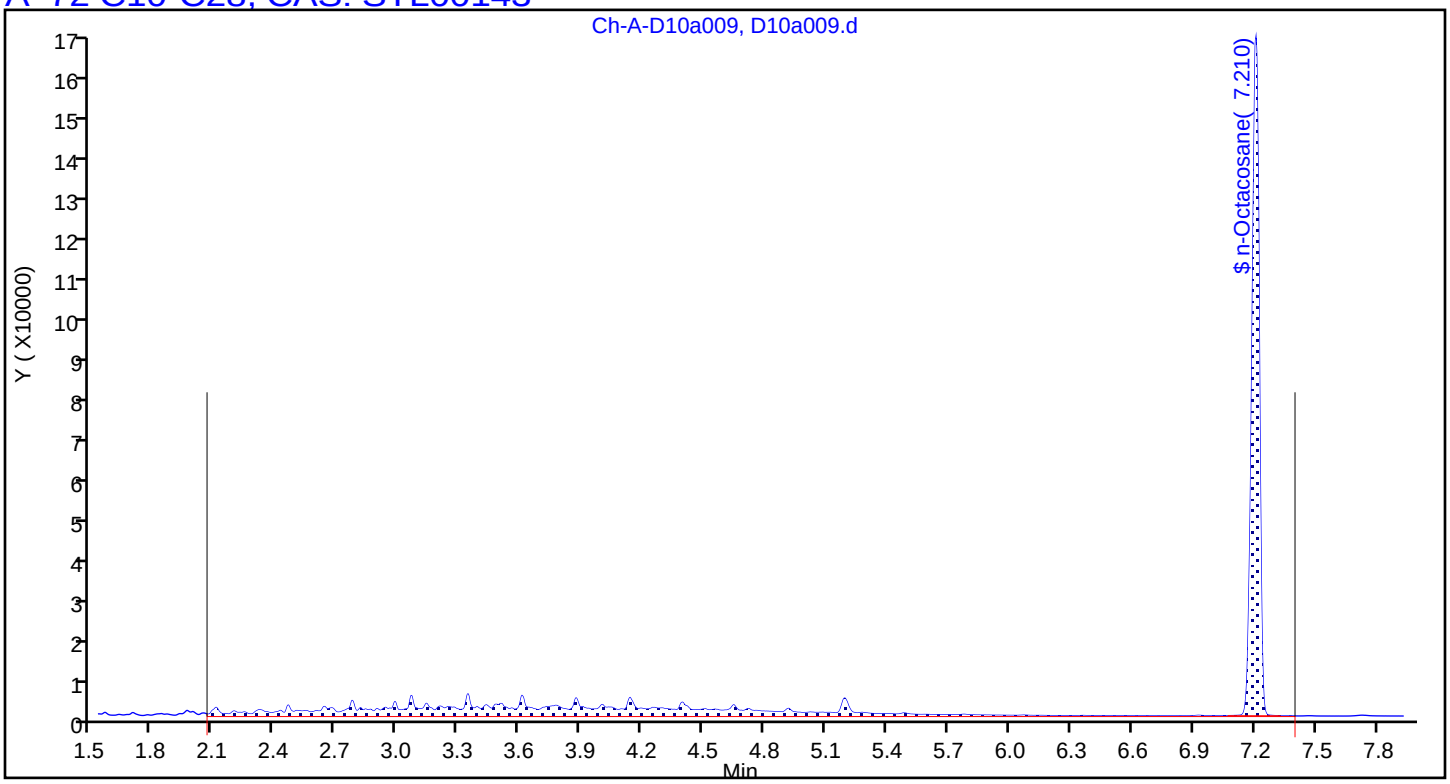
Report Date: 20-Apr-2018 08:12:40 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a009.d

Injection Date:	10-Apr-2018 22:12:42	Instrument ID:	GC70A		
Lims ID:	STD100PPM				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a010.d				
Lims ID:	STD750PPM				
Client ID:					
Sample Type:	ICRT	Calib Level:	3		
Inject. Date:	10-Apr-2018 22:34:11	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	20-Apr-2018 08:12:41	Calib Date:	10-Apr-2018 23:38:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	XAWRK018				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.733	(2.065-7.402)		2686893	750.0	741.8	
$ 127 n-Octacosane	7.220	7.220	0.000	542289	150.0	147.4	

Reagents:

gc8015dslCAL3_00031 Amount Added: 1.00 Units: mL

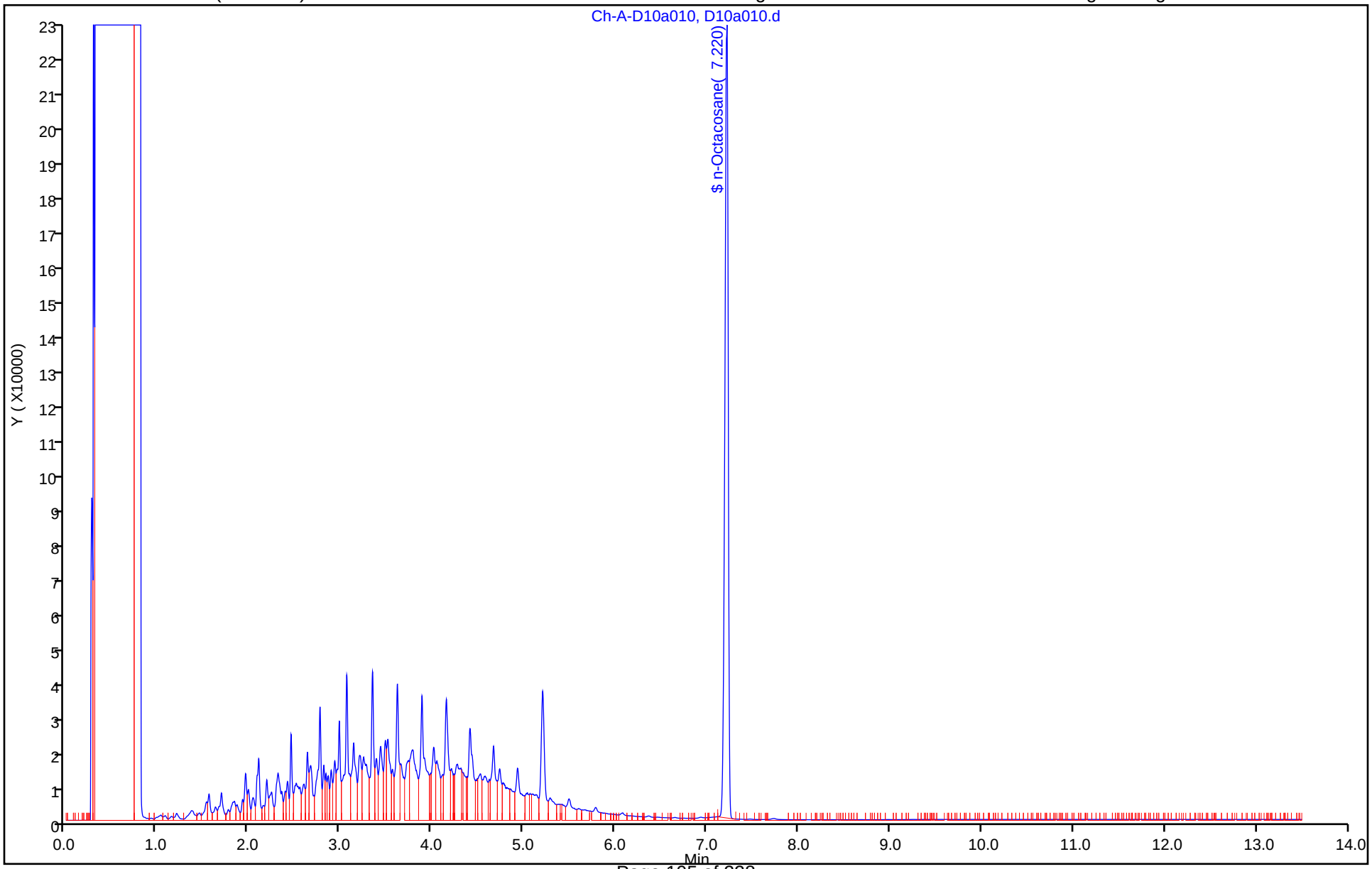
Report Date: 20-Apr-2018 08:12:42 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a010.d

Injection Date:	10-Apr-2018 22:34:11	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD750PPM			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



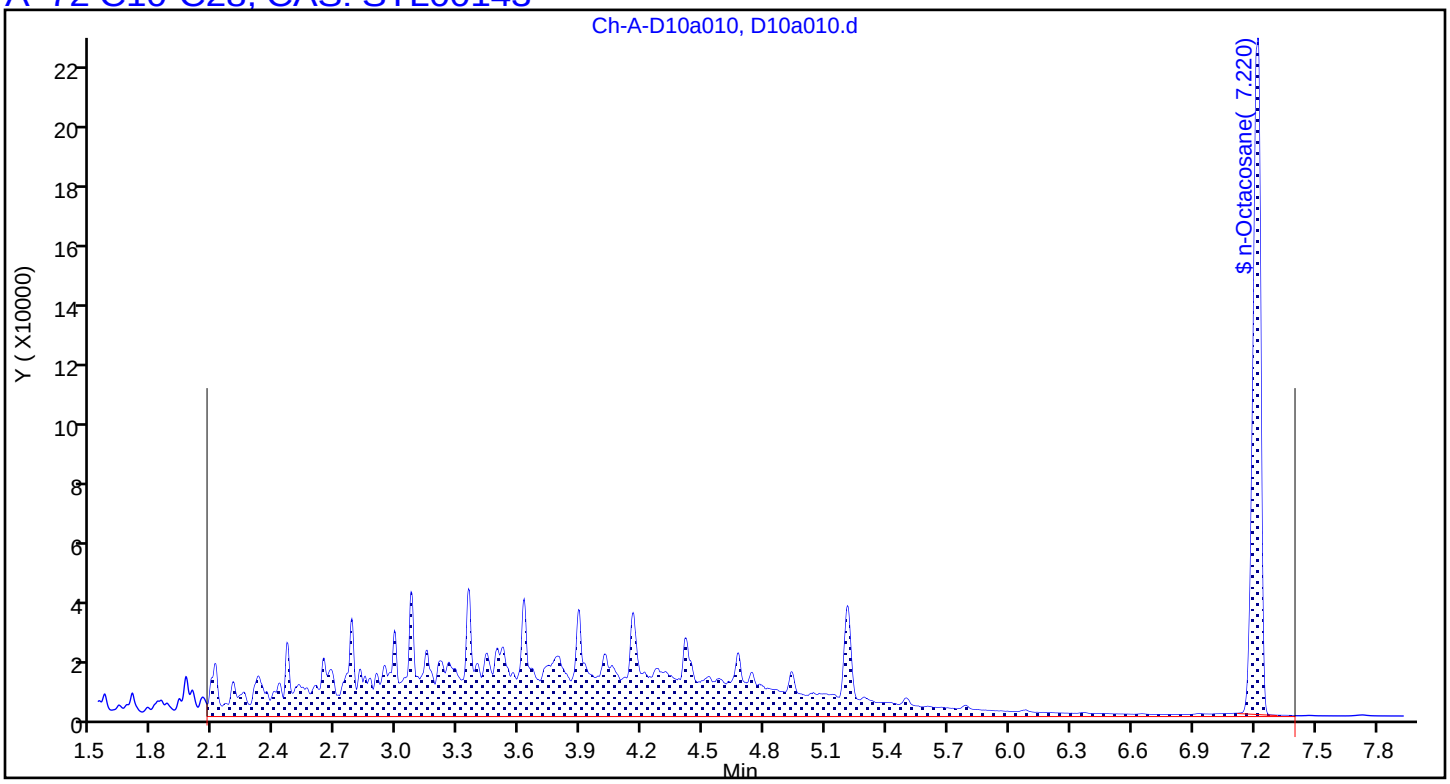
Report Date: 20-Apr-2018 08:12:42 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a010.d

Injection Date:	10-Apr-2018 22:34:11	Instrument ID:	GC70A		
Lims ID:	STD750PPM				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a011.d				
Lims ID:	STD2000PPM				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	10-Apr-2018 22:55:28	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	20-Apr-2018 08:12:43	Calib Date:	10-Apr-2018 23:38:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	XAWRK018				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.733	(2.065-7.402)		6909308	2000.0	1907.5	
$ 127 n-Octacosane	7.220	7.220	0.000	726870	200.0	197.6	

Reagents:

gc8015dslCAL4_00031 Amount Added: 1.00 Units: mL

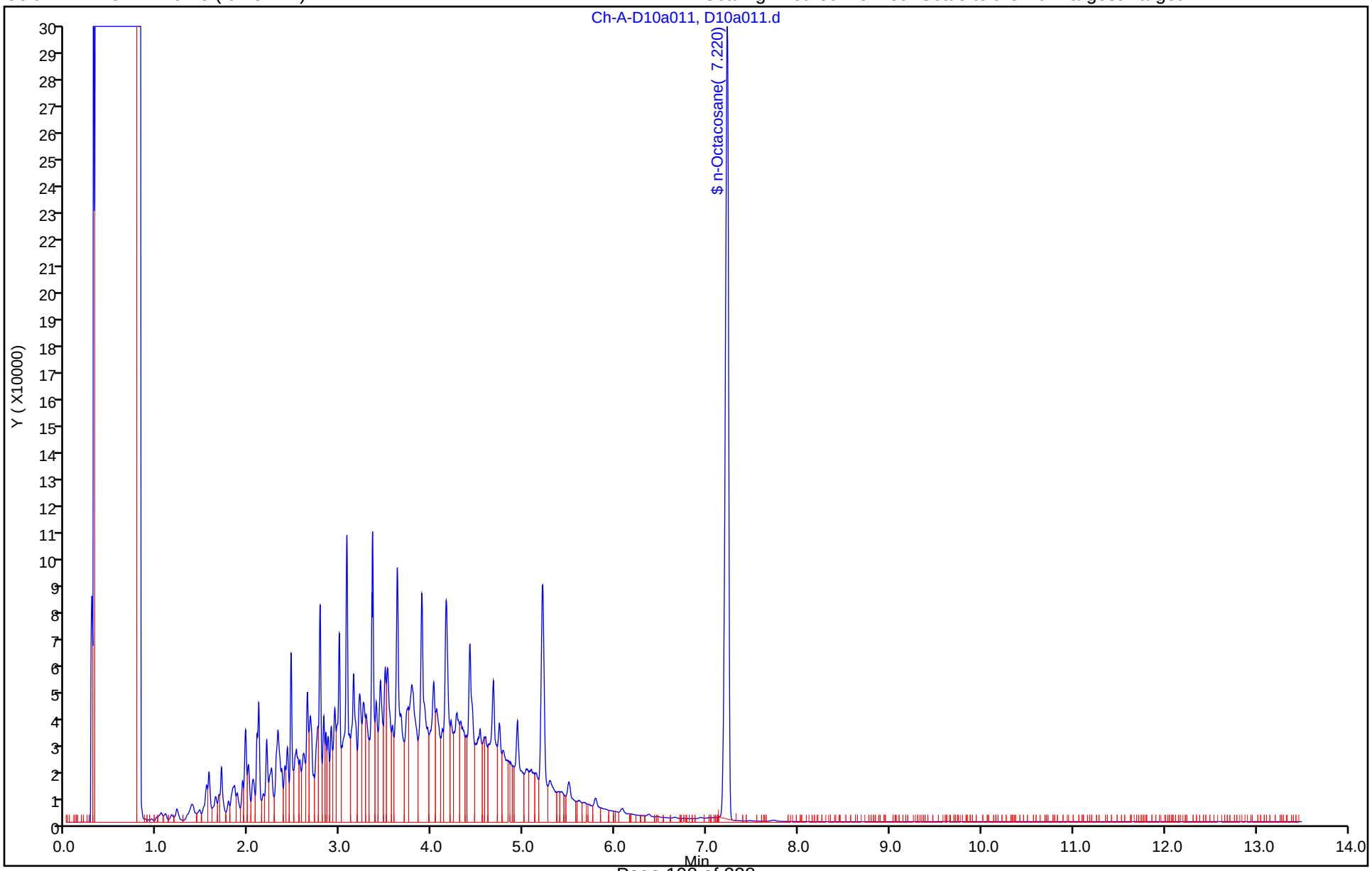
Report Date: 20-Apr-2018 08:12:43 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a011.d

Injection Date:	10-Apr-2018 22:55:28	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD2000PPM			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



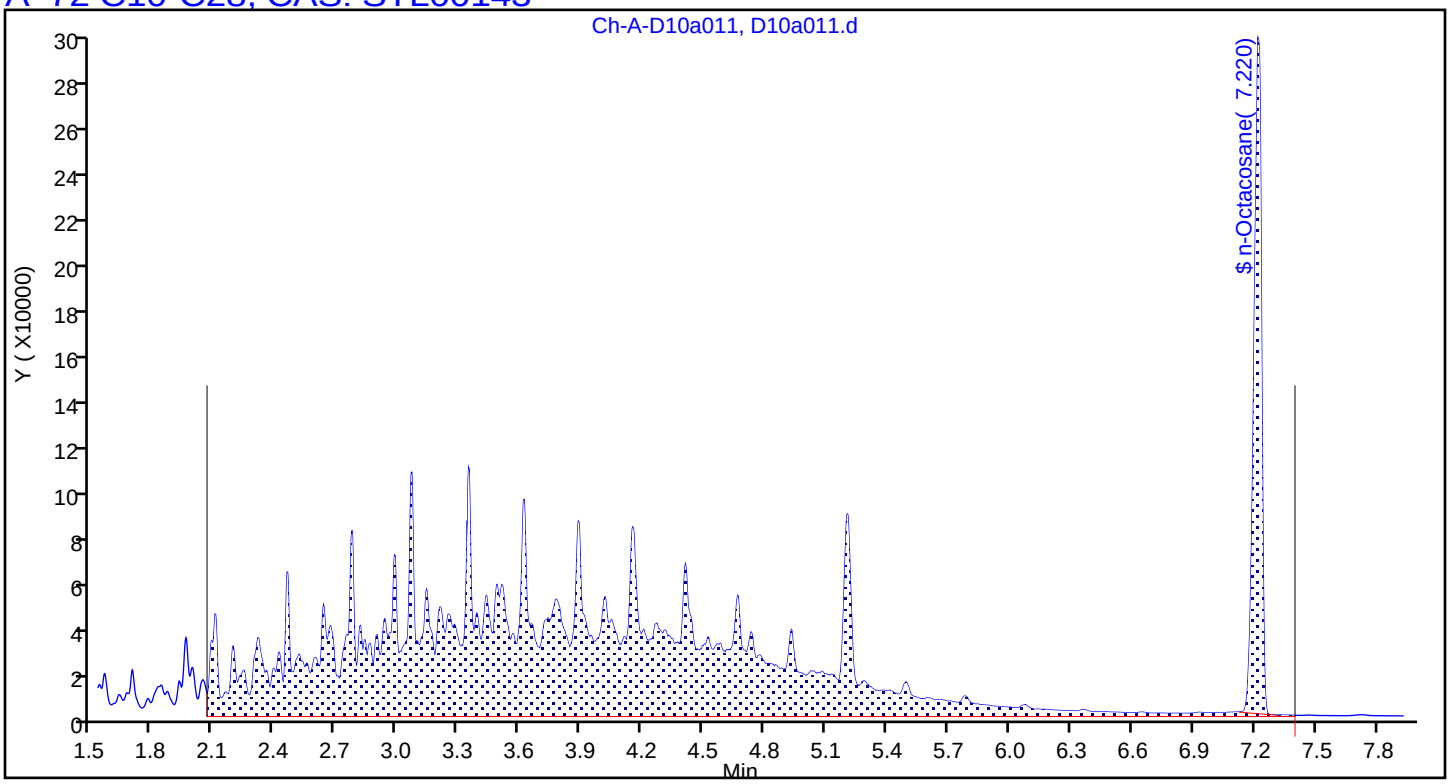
Report Date: 20-Apr-2018 08:12:43 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a011.d

Injection Date:	10-Apr-2018 22:55:28	Instrument ID:	GC70A		
Lims ID:	STD2000PPM				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a012.d				
Lims ID:	STD6000PPM				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	10-Apr-2018 23:16:54	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	20-Apr-2018 08:12:44	Calib Date:	10-Apr-2018 23:38:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	XAWRK018				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.733	(2.065-7.402)		20404846	6000.0	5633.4	
$ 127 n-Octacosane	7.227	7.220	0.007	881654	250.0	239.7	

Reagents:

gc8015dslCAL5_00030 Amount Added: 1.00 Units: mL

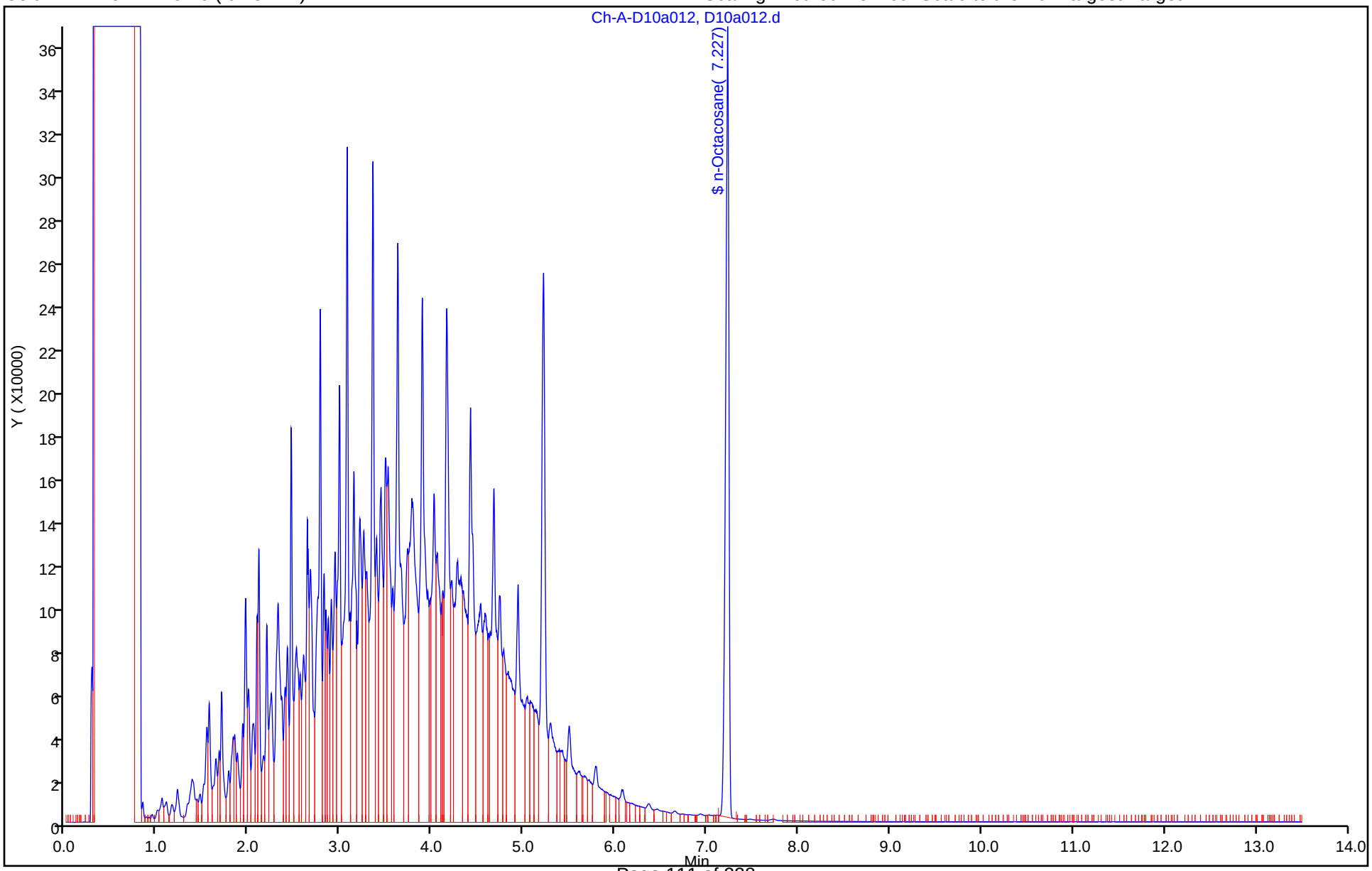
Report Date: 20-Apr-2018 08:12:45 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a012.d

Injection Date:	10-Apr-2018 23:16:54	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD6000PPM			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



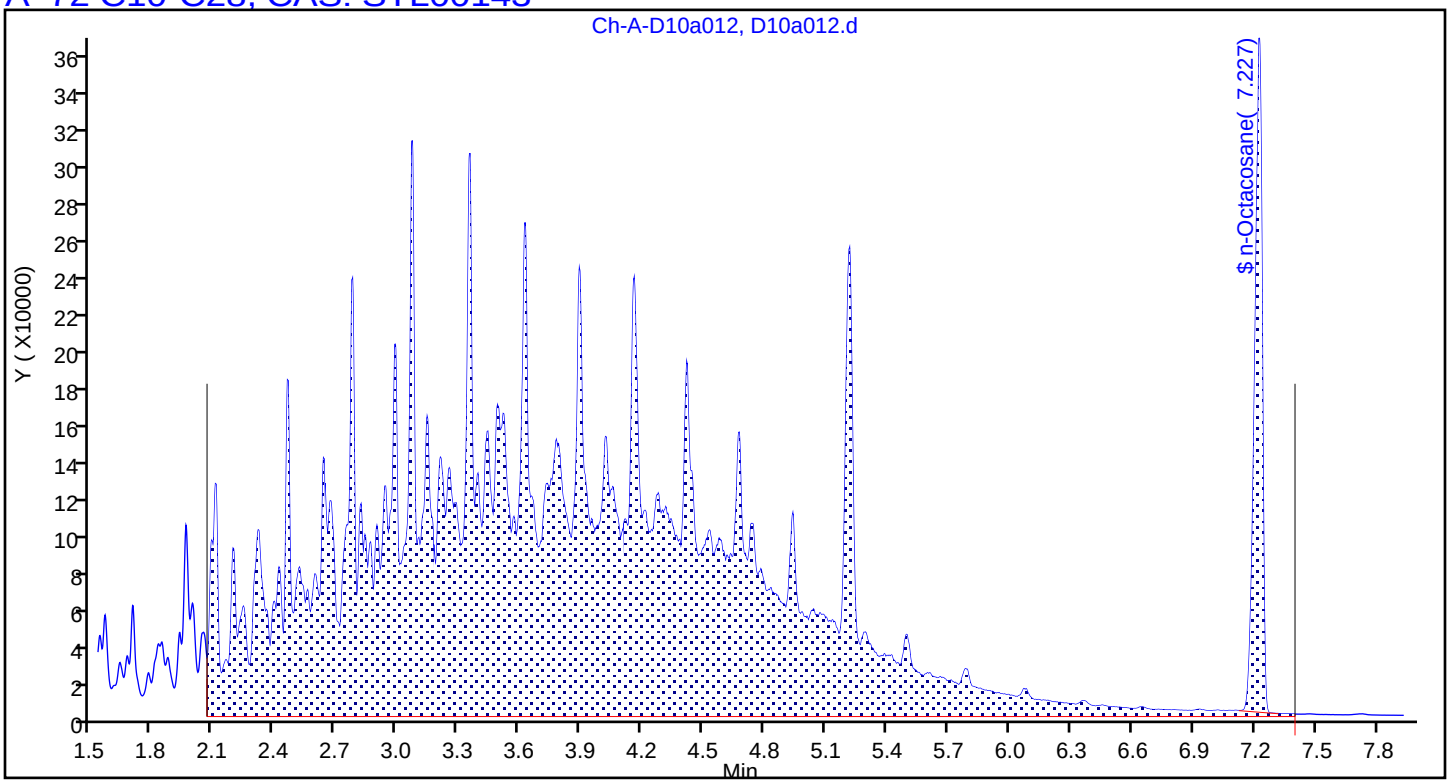
Report Date: 20-Apr-2018 08:12:45 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a012.d

Injection Date:	10-Apr-2018 23:16:54	Instrument ID:	GC70A		
Lims ID:	STD6000PPM				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d				
Lims ID:	STD8000PPM				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	10-Apr-2018 23:38:28	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	20-Apr-2018 08:12:45	Calib Date:	10-Apr-2018 23:38:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	XAWRK018				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.733	(2.065-7.402)		26954406	8000.0	7441.6	
$ 127 n-Octacosane	7.230	7.220	0.010	1037625	300.0	282.0	

Reagents:

gc8015dslCAL6_00030 Amount Added: 1.00 Units: mL

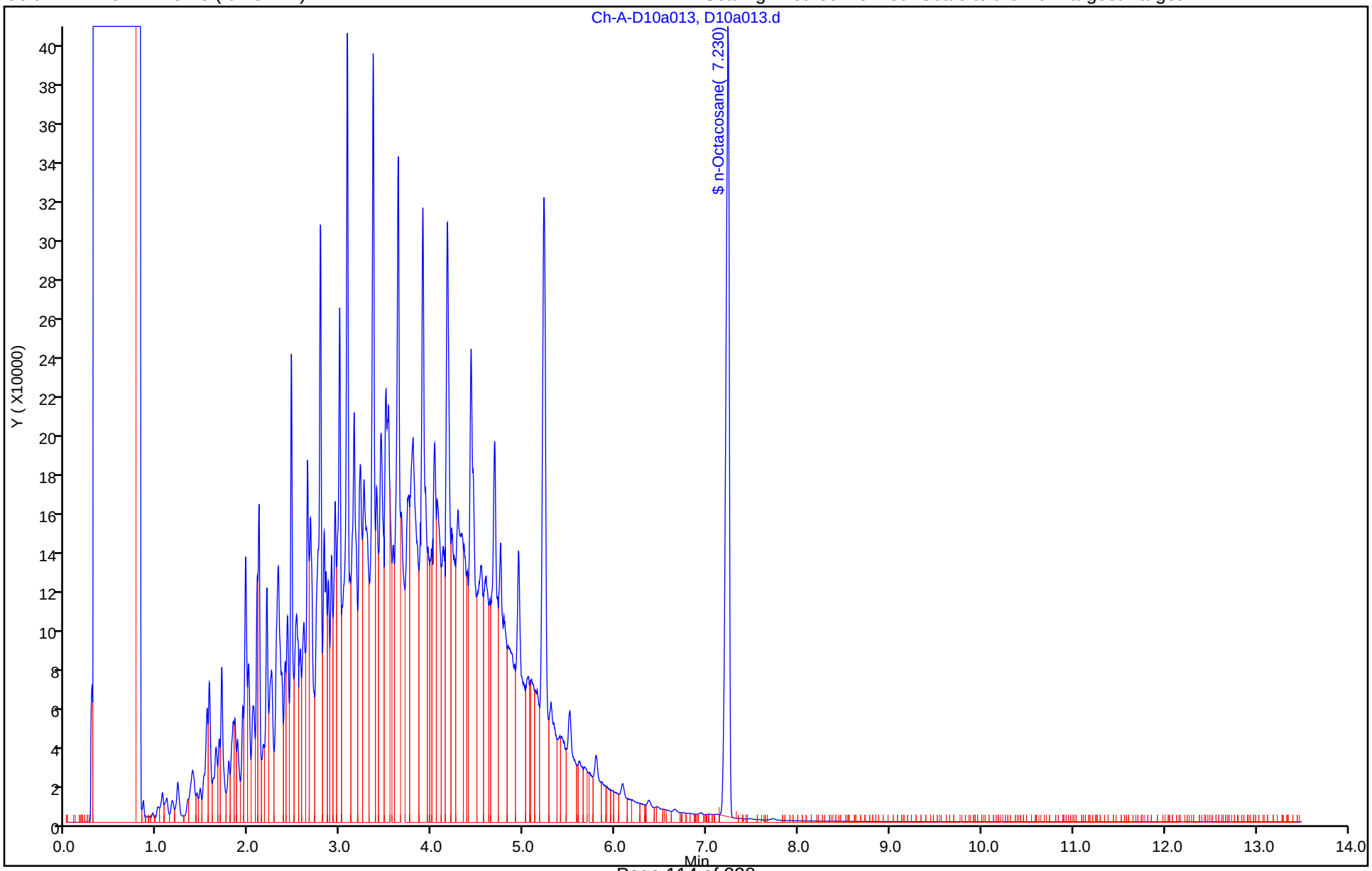
Report Date: 20-Apr-2018 08:12:46 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d

Injection Date:	10-Apr-2018 23:38:28	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	STD8000PPM			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



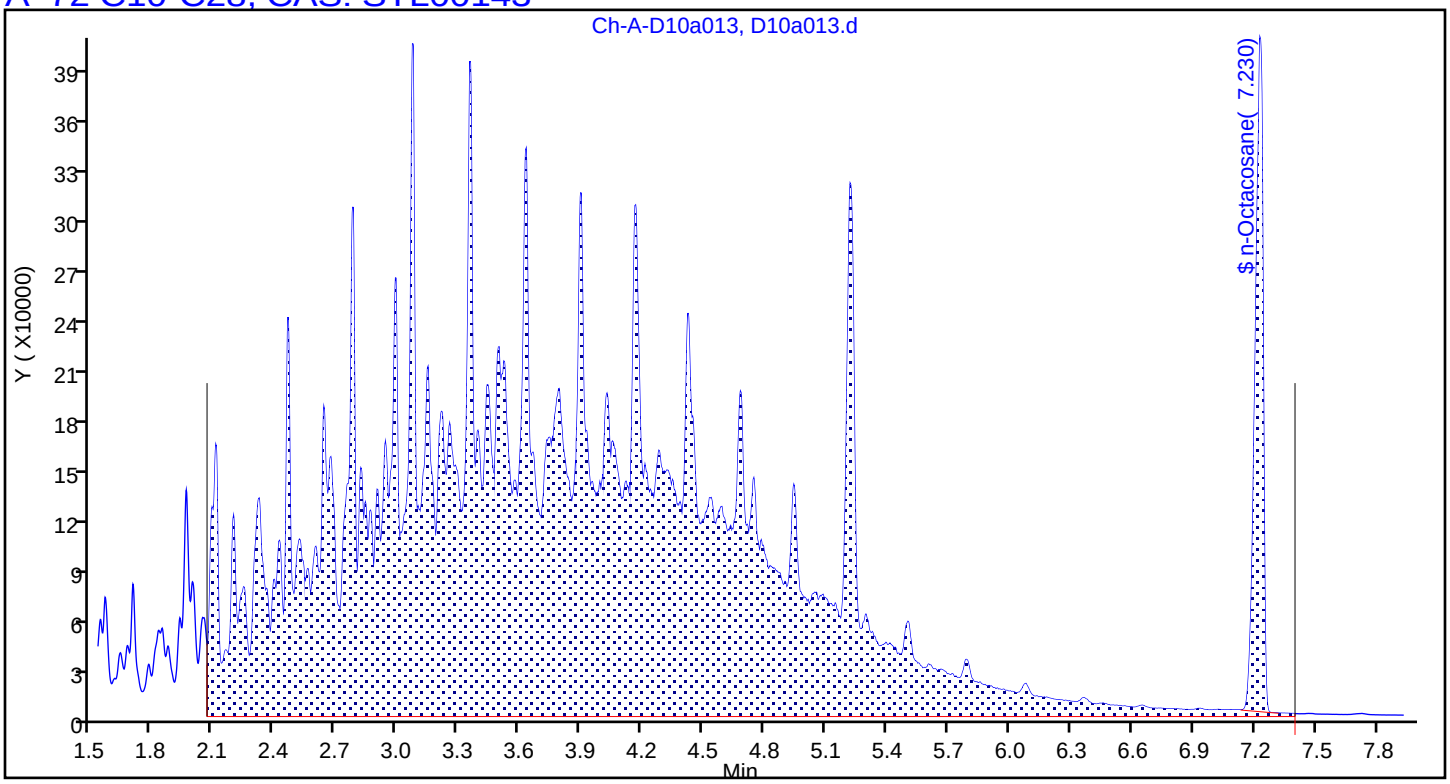
Report Date: 20-Apr-2018 08:12:46 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Irvine

Data File: \\ChromNA\Irvine\ChromData\GC70A\20180410-102389.b\D10a013.d

Injection Date:	10-Apr-2018 23:38:28	Instrument ID:	GC70A		
Lims ID:	STD8000PPM				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



Calibration / C10-C28

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

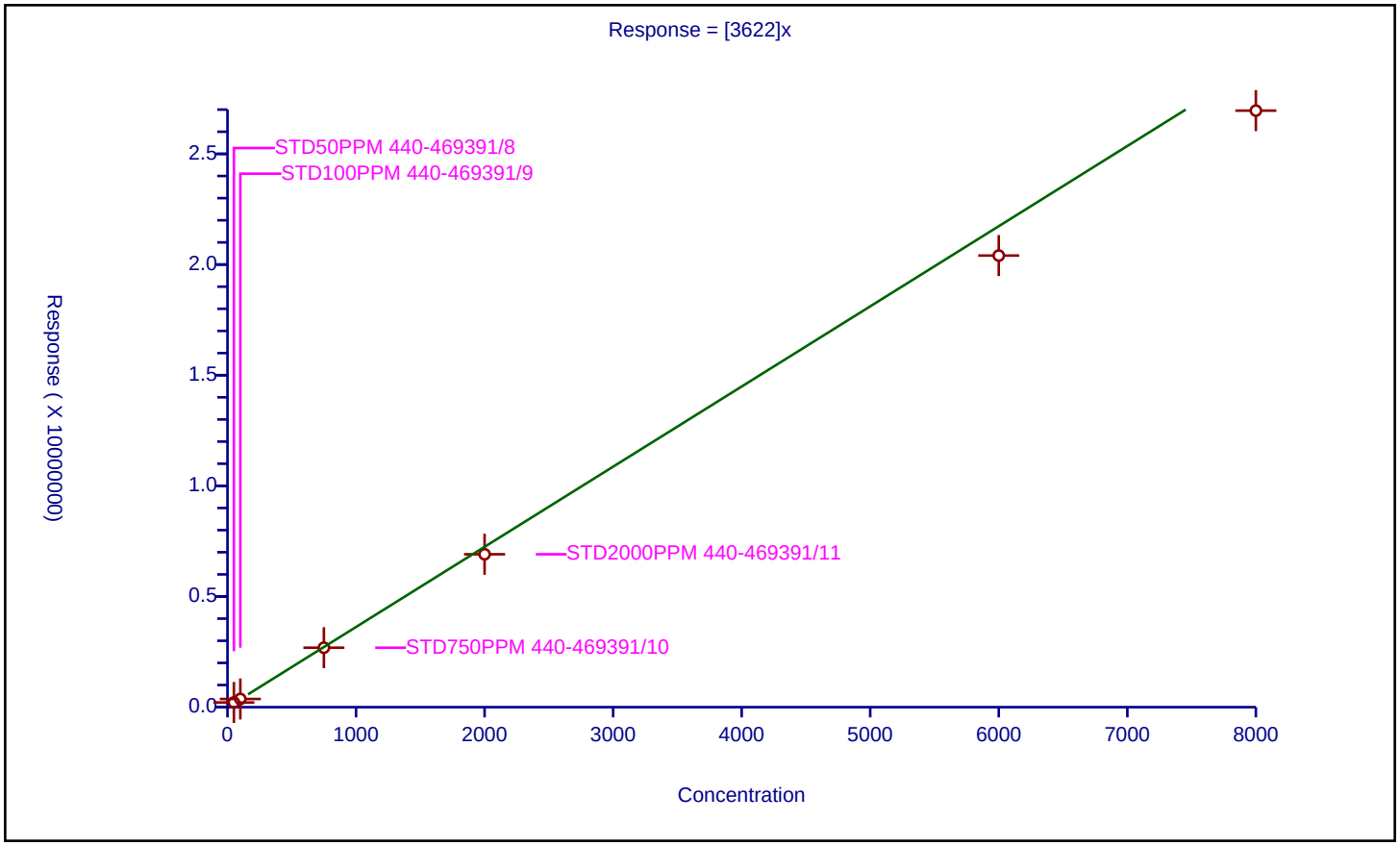
Curve Coefficients

Intercept:	0
Slope:	3622

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	STD50PPM 440-469391/8	50.0	211226.0			4224.52	Y
2	STD100PPM 440-469391/9	100.0	370097.0			3700.97	Y
3	STD750PPM 440-	750.0	2686893.0			3582.524	Y
4	STD2000PPM 440-	2000.0	6909308.0			3454.654	Y
5	STD6000PPM 440-	6000.0	20404846.0			3400.807667	Y
6	STD8000PPM 440-	8000.0	26954406.0			3369.30075	Y



Calibration / n-Octacosane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

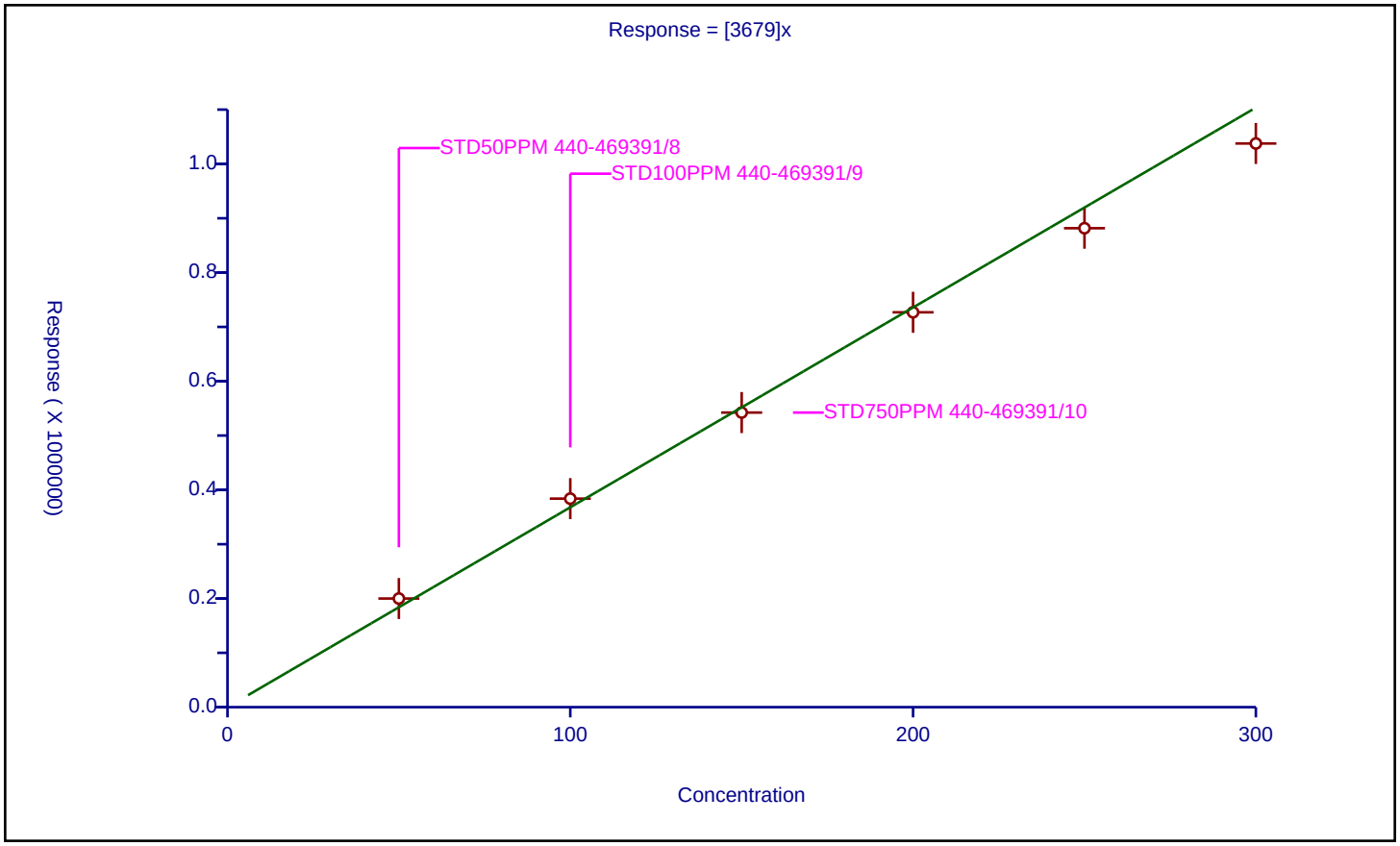
Curve Coefficients

Intercept:	0
Slope:	3679

Error Coefficients

Standard Error:	36000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	STD50PPM 440-469391/8	50.0	199964.0			3999.28	Y
2	STD100PPM 440-469391/9	100.0	383897.0			3838.97	Y
3	STD750PPM 440-	150.0	542289.0			3615.26	Y
4	STD2000PPM 440-	200.0	726870.0			3634.35	Y
5	STD6000PPM 440-	250.0	881654.0			3526.616	Y
6	STD8000PPM 440-	300.0	1037625.0			3458.75	Y



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCVRT 440-518682/4 Calibration Date: 12/21/2018 11:50

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L21a012.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3304	3260		740	750	-1.3	15.0
n-Octacosane	Ave	3258	3383		156	150	3.8	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCVRT 440-518682/4 Calibration Date: 12/21/2018 11:50

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L21a012.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.58	1.88	7.27
n-Octacosane	7.10	7.07	7.13

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a012.d				
Lims ID:	CCVRT DIESEL1				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	21-Dec-2018 11:50:10	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Dec-2018 15:47:28	Calib Date:	26-Sep-2018 03:05:05		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Irvine\ChromData\GC69A\20180925-109575.b\I24a088.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0316				
First Level Reviewer: doanm		Date:	21-Dec-2018 15:47:28		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.575	(1.878-7.272)		2444763	750.0	740.0	
$ 127 n-Octacosane	7.103	7.103	0.000	507488	150.0	155.8	

Reagents:

gc8015dslCCV1_00035 Amount Added: 1.00 Units: mL

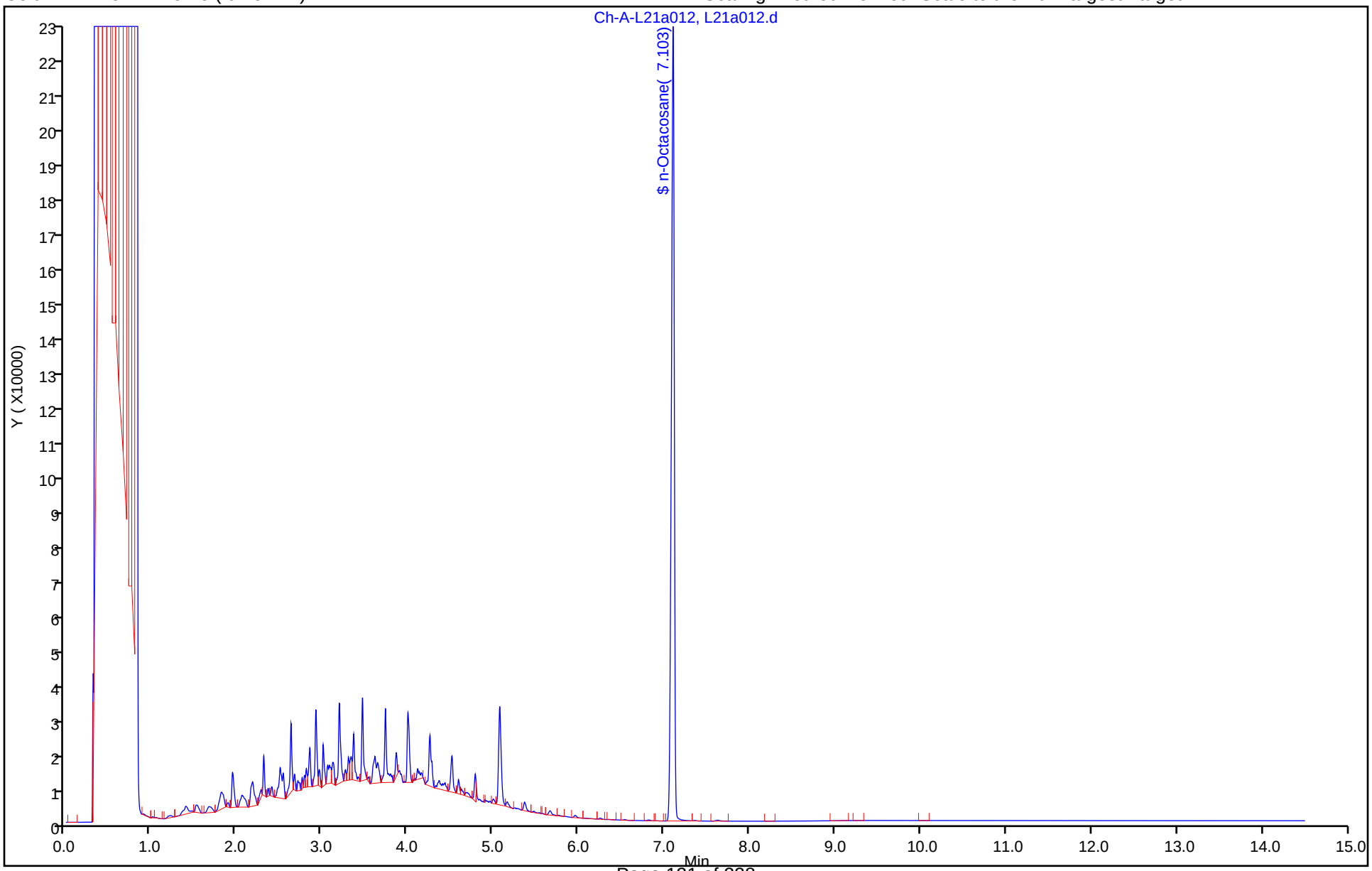
Report Date: 21-Dec-2018 15:47:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a012.d

Injection Date:	21-Dec-2018 11:50:10	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCVRT DIESEL1			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 21-Dec-2018 15:47:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a012.d

Injection Date: 21-Dec-2018 11:50:10 Instrument ID: GC69A

Lims ID: CCVRT DIESEL1

Client ID:

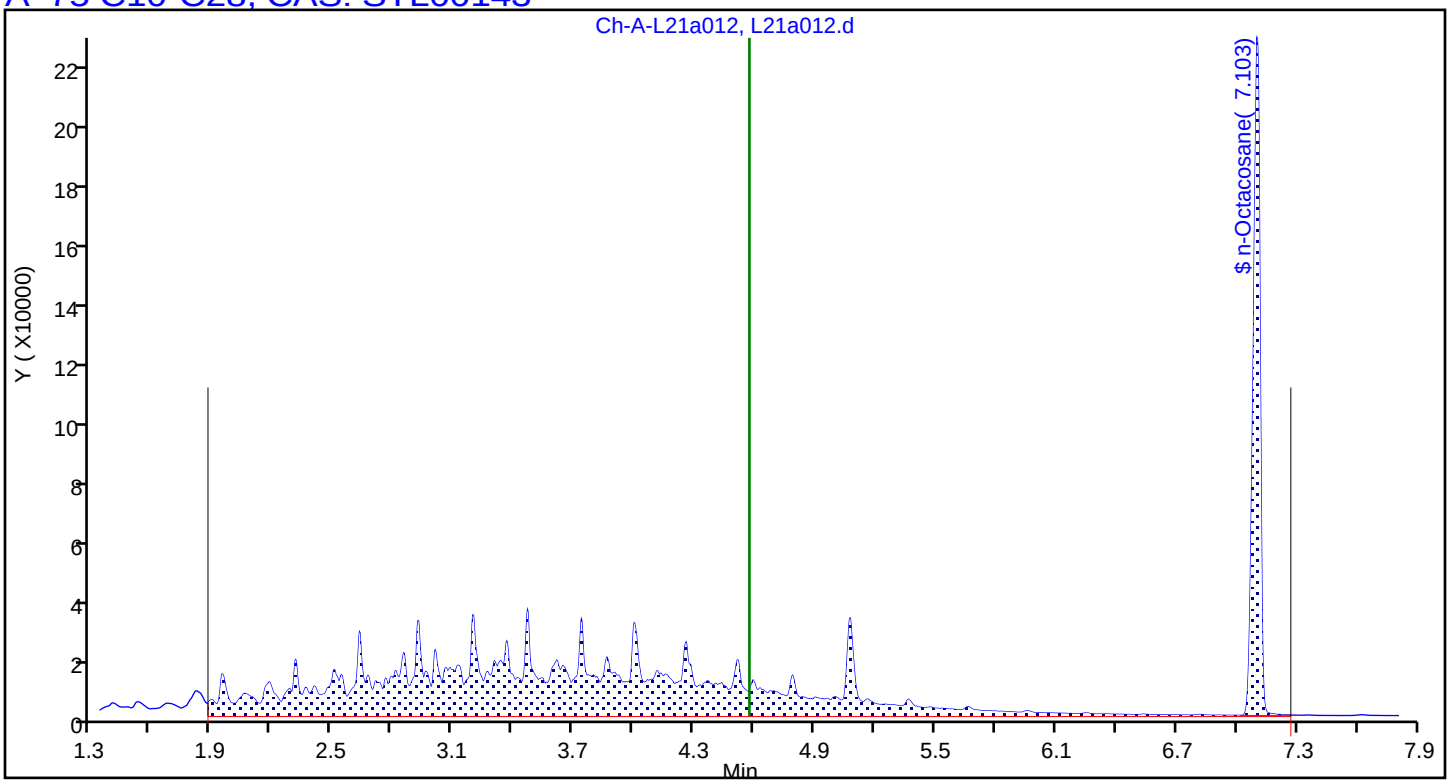
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A_75 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-518682/24 Calibration Date: 12/21/2018 18:40

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L21a032.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3304	3263		1980	2000	-1.2	15.0
n-Octacosane	Ave	3258	3493		214	200	7.2	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-518682/24 Calibration Date: 12/21/2018 18:40

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L21a032.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.58	1.88	7.27
n-Octacosane	7.12	7.07	7.13

TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a032.d
Lims ID: CCV DIESEL2
Client ID:
Sample Type: CCV
Inject. Date: 21-Dec-2018 18:40:44 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A
Sublist: chrom-8015DRO_69A*sub1

Method: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 21-Dec-2018 19:09:34 Calib Date: 21-Dec-2018 12:10:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0313

First Level Reviewer: barnettl Date: 21-Dec-2018 19:09:34

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.575	(1.878-7.272)		6526841	2000.0	1975.6	
$ 127 n-Octacosane	7.115	7.103	0.012	698666	200.0	214.4	

Reagents:

gc8015dslCCV2_00042 Amount Added: 1.00 Units: mL

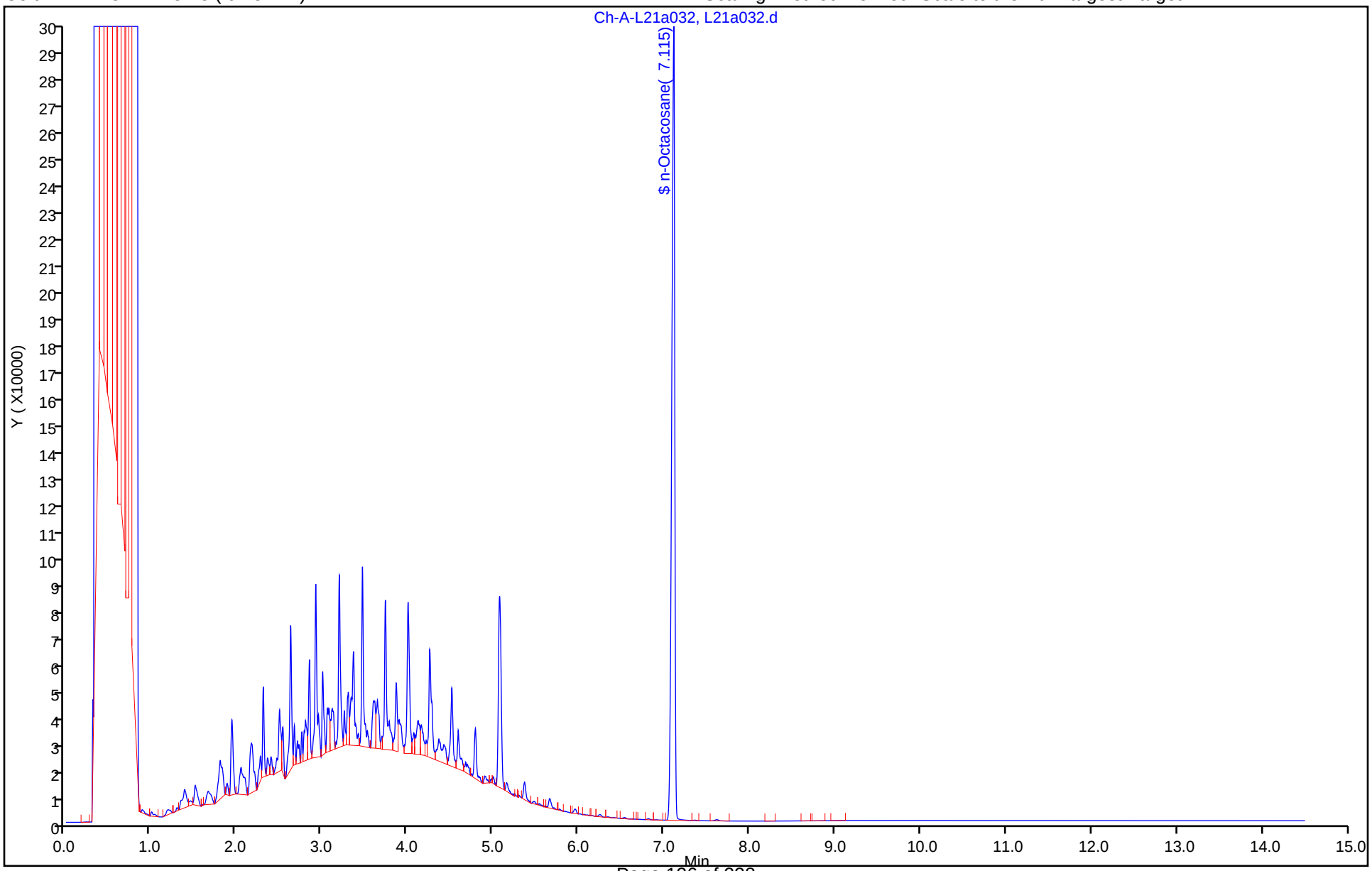
Report Date: 21-Dec-2018 19:09:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a032.d

Injection Date:	21-Dec-2018 18:40:44	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCV DIESEL2			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 21-Dec-2018 19:09:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a032.d

Injection Date: 21-Dec-2018 18:40:44 Instrument ID: GC69A

Lims ID: CCV DIESEL2

Client ID:

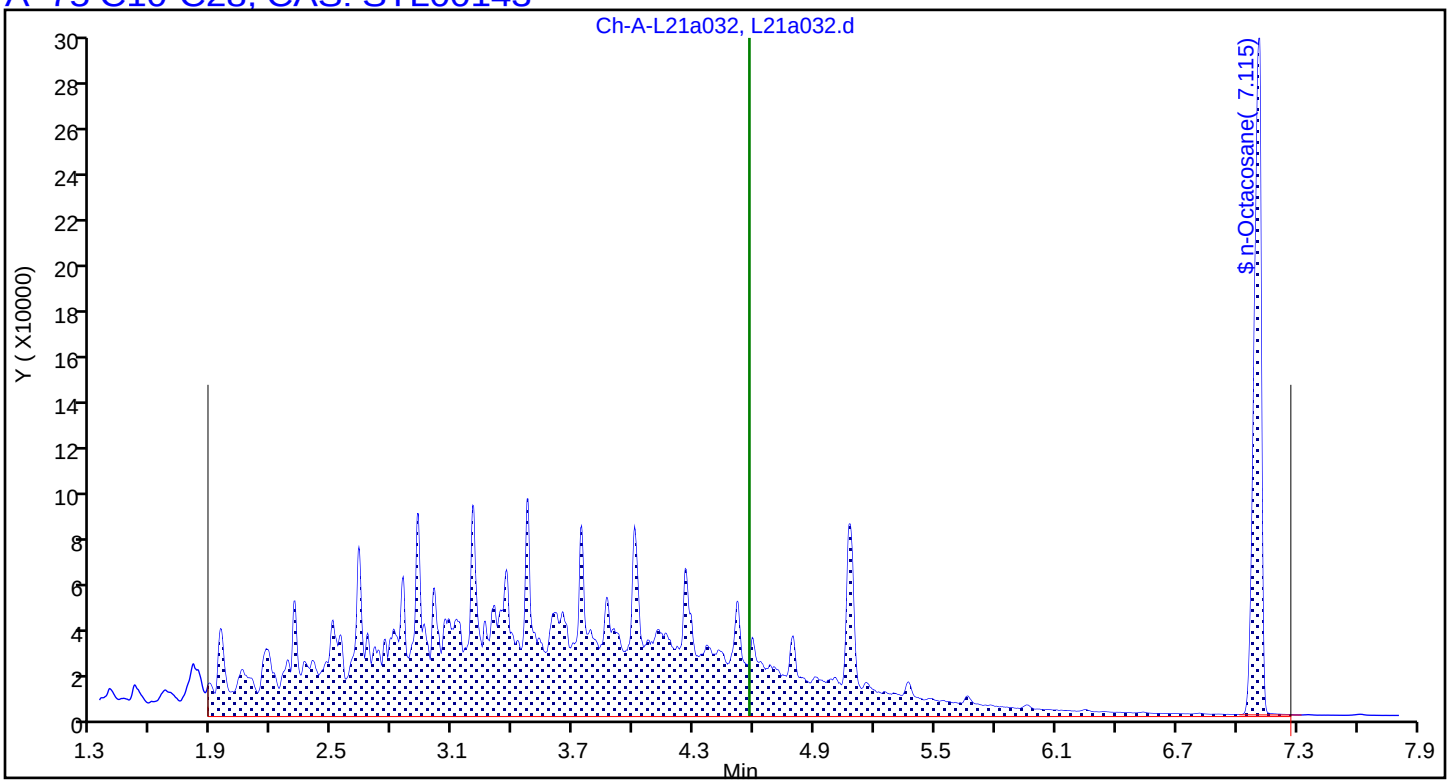
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-518682/39 Calibration Date: 12/21/2018 23:49

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L21a047.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3304	3339		758	750	1.1	15.0
n-Octacosane	Ave	3258	3469		160	150	6.5	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-518682/39 Calibration Date: 12/21/2018 23:49

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L21a047.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.58	1.88	7.27
n-Octacosane	7.11	7.07	7.13

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a047.d				
Lims ID:	ccv diesel1				
Client ID:					
Sample Type:	CCV				
Inject. Date:	21-Dec-2018 23:49:10	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 01:14:34	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	22-Dec-2018 00:17:04		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.575	(1.878-7.233)		2504335	750.0	758.0	
$ 127 n-Octacosane	7.107	7.103	0.004	520287	150.0	159.7	

Reagents:

gc8015dslCCV1_00035 Amount Added: 1.00 Units: mL

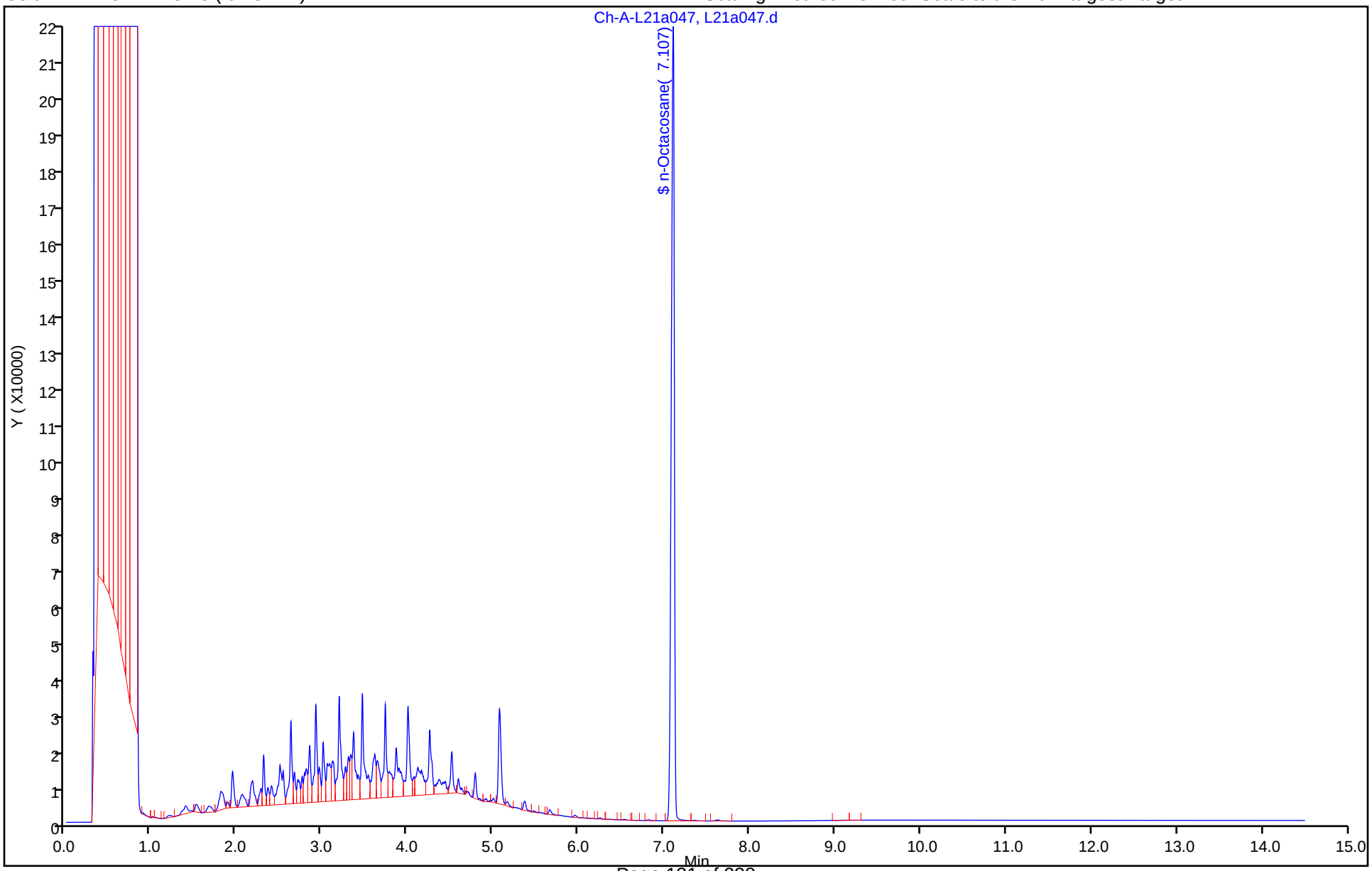
Report Date: 22-Dec-2018 01:14:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a047.d

Injection Date:	21-Dec-2018 23:49:10	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	ccv diesel1			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 22-Dec-2018 01:14:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a047.d

Injection Date: 21-Dec-2018 23:49:10 Instrument ID: GC69A

Lims ID: ccv diesel1

Client ID:

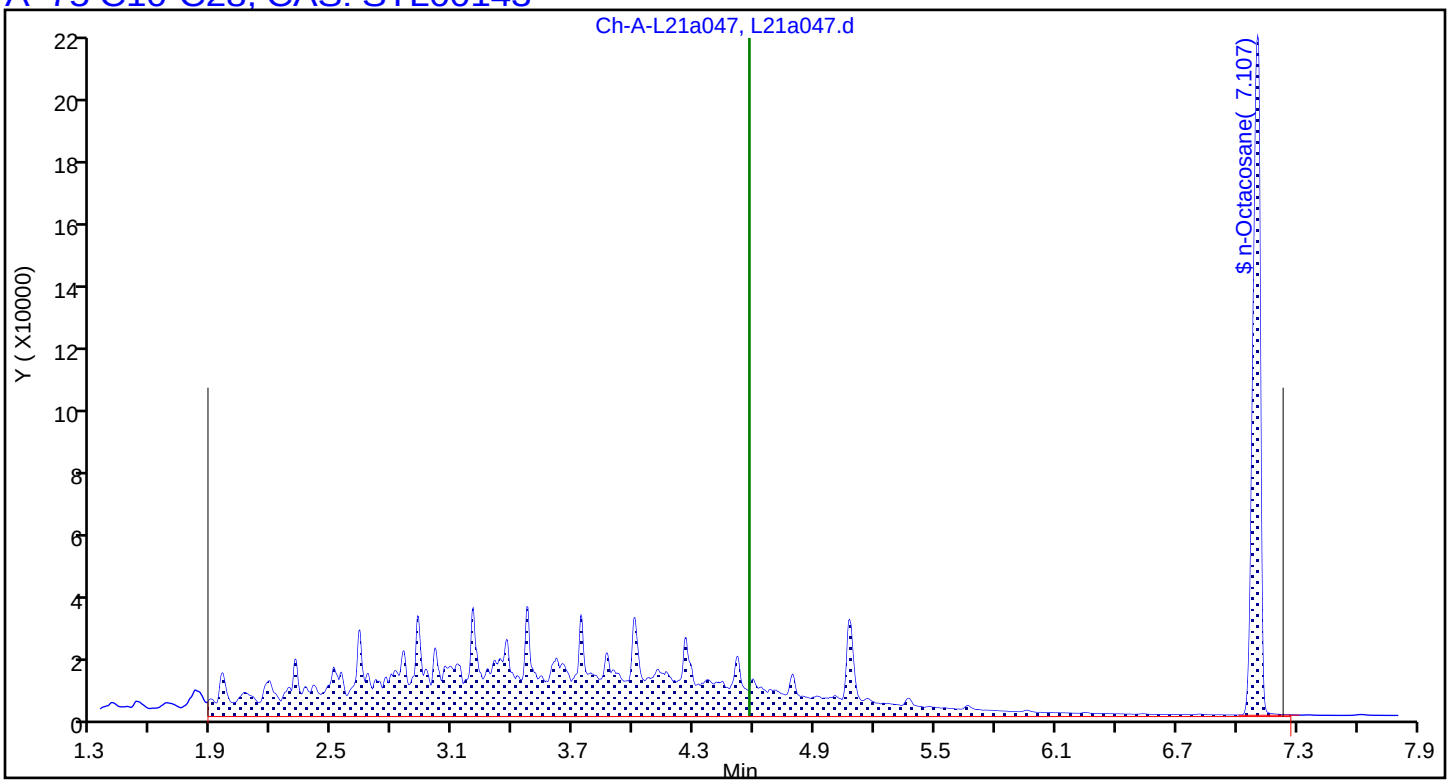
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 39

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCVRT 440-519777/5 Calibration Date: 12/28/2018 09:17

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L28a005.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3304	3522		800	750	6.6	15.0
n-Octacosane	Ave	3258	3803		175	150	16.7	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCVRT 440-519777/5 Calibration Date: 12/28/2018 09:17

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L28a005.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.59	1.88	7.29
n-Octacosane	7.11	7.08	7.14

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a005.d				
Lims ID:	CCVRT DIESEL1				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	28-Dec-2018 09:17:24	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 12:11:36	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: doanm		Date:	28-Dec-2018 12:11:36		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.588	(1.883-7.293)		2641571	750.0	799.6	
$ 127 n-Octacosane	7.112	7.112	0.000	570520	150.0	175.1	

Reagents:

gc8015dslCCV1_00035 Amount Added: 1.00 Units: mL

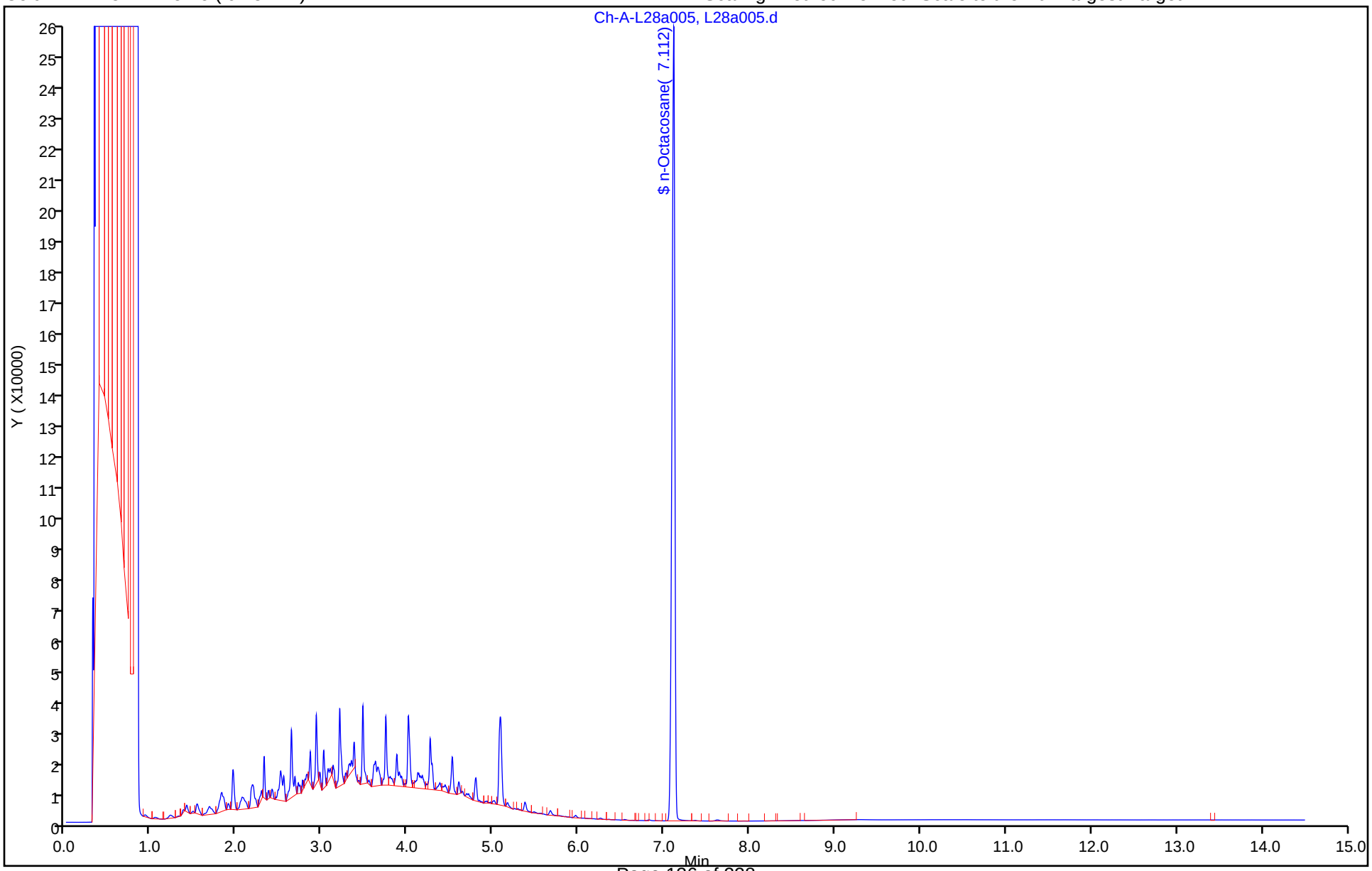
Report Date: 28-Dec-2018 12:11:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a005.d

Injection Date:	28-Dec-2018 09:17:24	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCVRT DIESEL1			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 28-Dec-2018 12:11:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a005.d

Injection Date: 28-Dec-2018 09:17:24 Instrument ID: GC69A

Lims ID: CCVRT DIESEL1

Client ID:

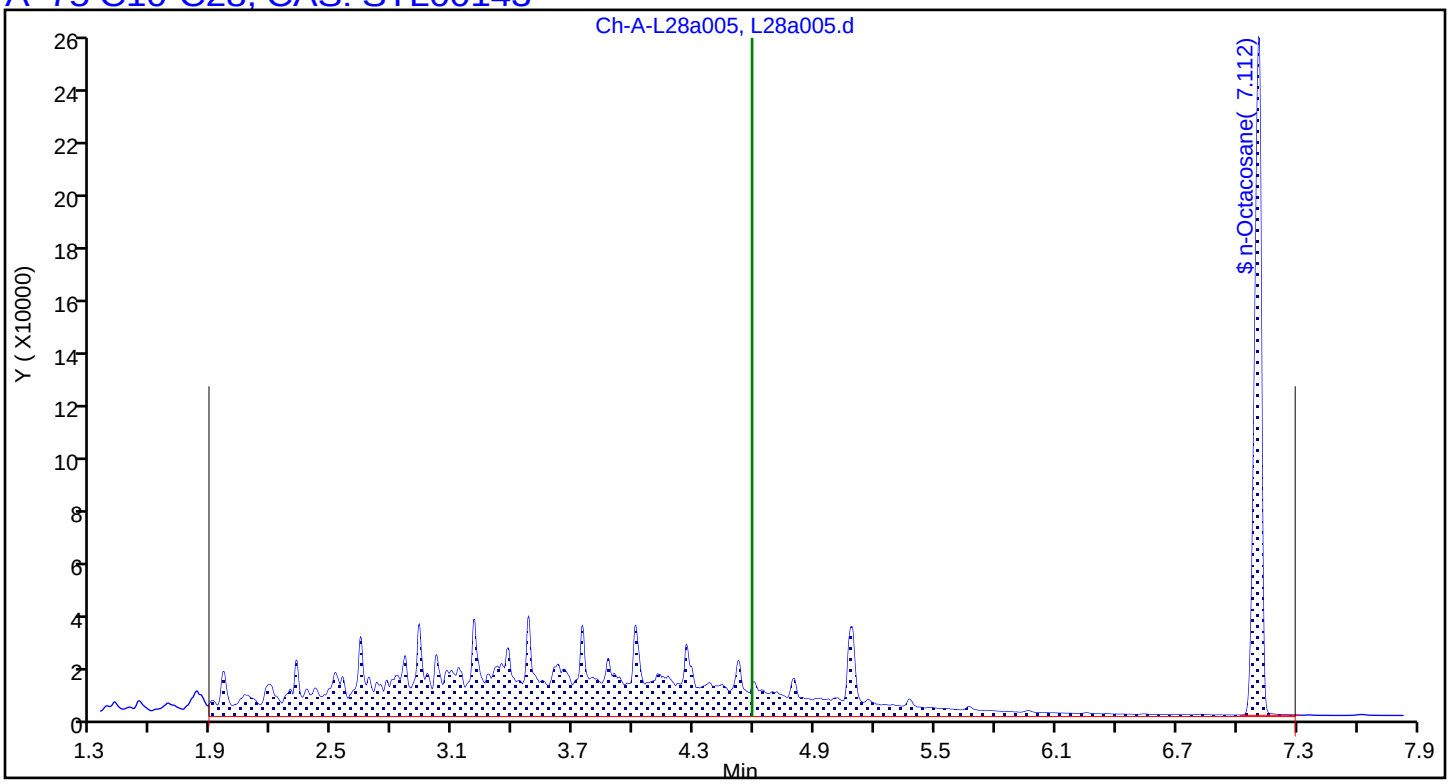
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-519777/19 Calibration Date: 12/28/2018 15:35

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L28a019.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3304	3286		746	750	-0.5	15.0
n-Octacosane	Ave	3258	3586		165	150	10.1	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-519777/19 Calibration Date: 12/28/2018 15:35

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L28a019.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.59	1.88	7.29
n-Octacosane	7.11	7.08	7.14

TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a019.d
Lims ID: CCV DIESEL1
Client ID:
Sample Type: CCV
Inject. Date: 28-Dec-2018 15:35:30 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A
Sublist: chrom-8015DRO_69A*sub1

Method: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 28-Dec-2018 16:56:03 Calib Date: 21-Dec-2018 12:10:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0320

First Level Reviewer: doanm Date: 28-Dec-2018 16:54:07

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.588	(1.908-7.293)		2464305	750.0	745.9	
$ 127 n-Octacosane	7.112	7.112	0.000	537859	150.0	165.1	

Reagents:

gc8015dslCCV1_00035 Amount Added: 1.00 Units: mL

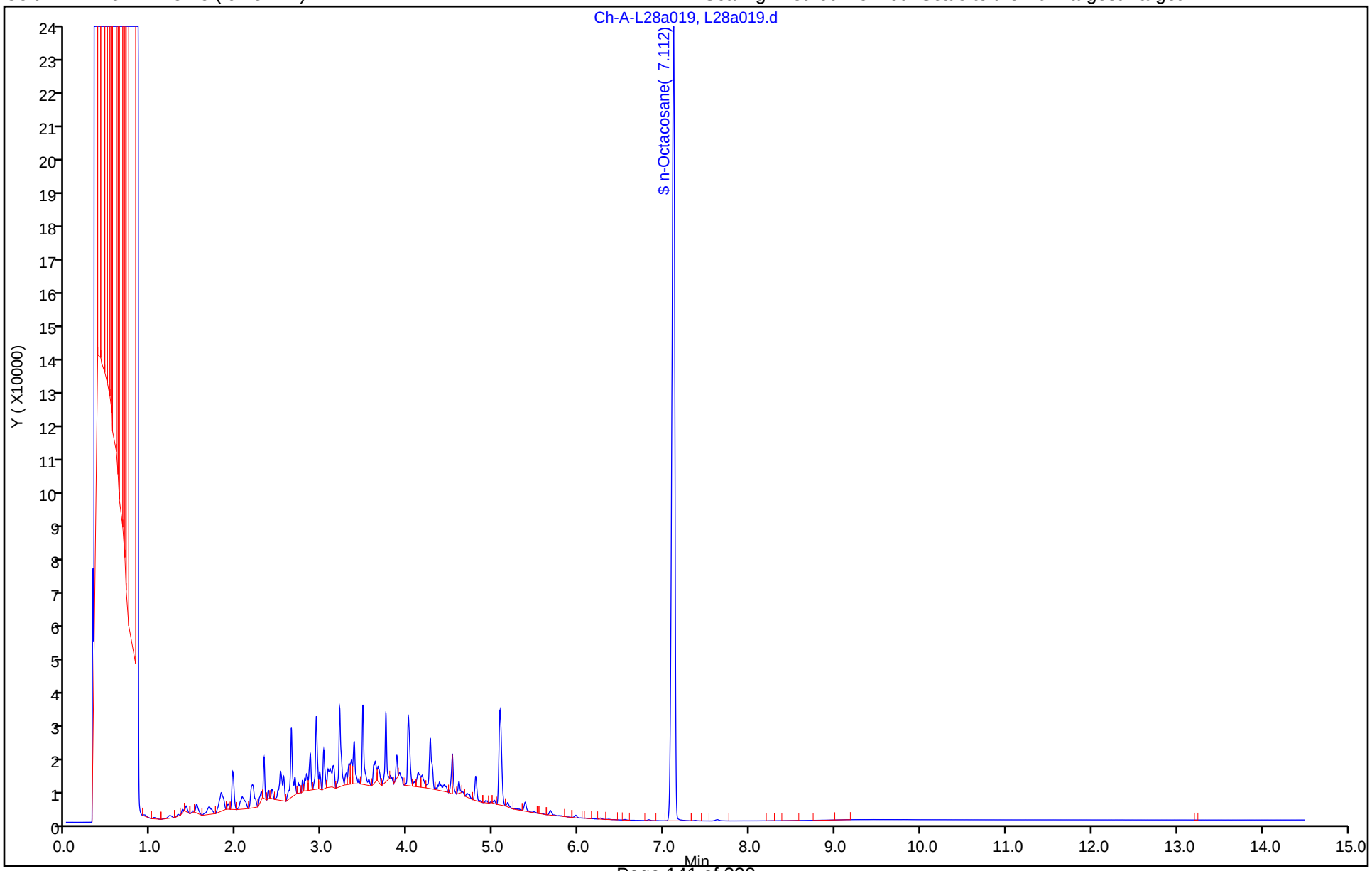
Report Date: 28-Dec-2018 16:56:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a019.d

Injection Date:	28-Dec-2018 15:35:30	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCV DIESEL1			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 28-Dec-2018 16:56:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a019.d

Injection Date: 28-Dec-2018 15:35:30 Instrument ID: GC69A

Lims ID: CCV DIESEL1

Client ID:

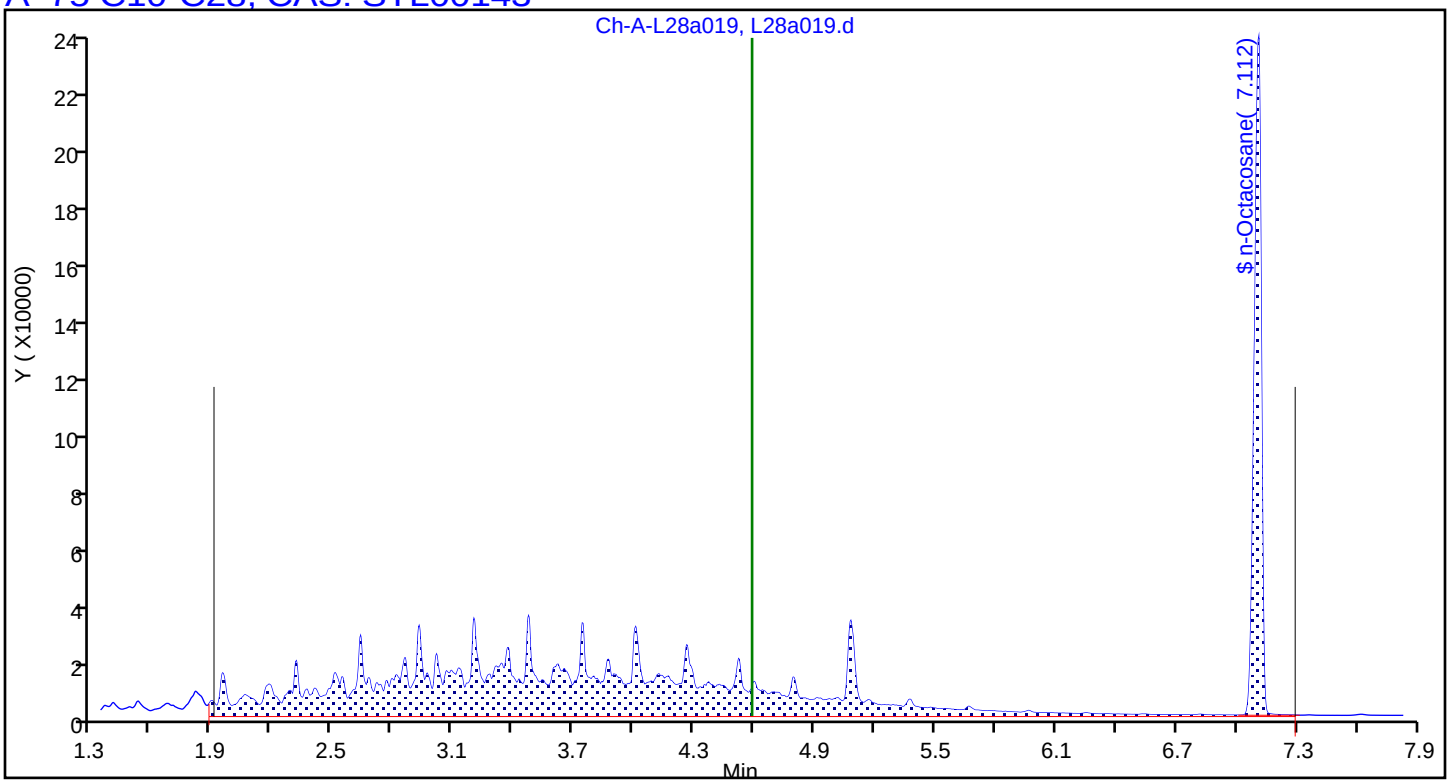
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-519777/34 Calibration Date: 12/28/2018 20:41

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L28a034.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3304	3304		2000	2000	0.0	15.0
n-Octacosane	Ave	3258	3617		222	200	11.0	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-519777/34 Calibration Date: 12/28/2018 20:41

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L28a034.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.59	1.88	7.29
n-Octacosane	7.12	7.08	7.14

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a034.d				
Lims ID:	CCV DIESEL2				
Client ID:					
Sample Type:	CCV				
Inject. Date:	28-Dec-2018 20:41:14	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 12:29:58	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 12:29:58		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.588	(1.883-7.293)		6607604	2000.0	2000.0	
$ 127 n-Octacosane	7.117	7.112	0.005	723451	200.0	222.1	

Reagents:

gc8015dslCCV2_00042 Amount Added: 1.00 Units: mL

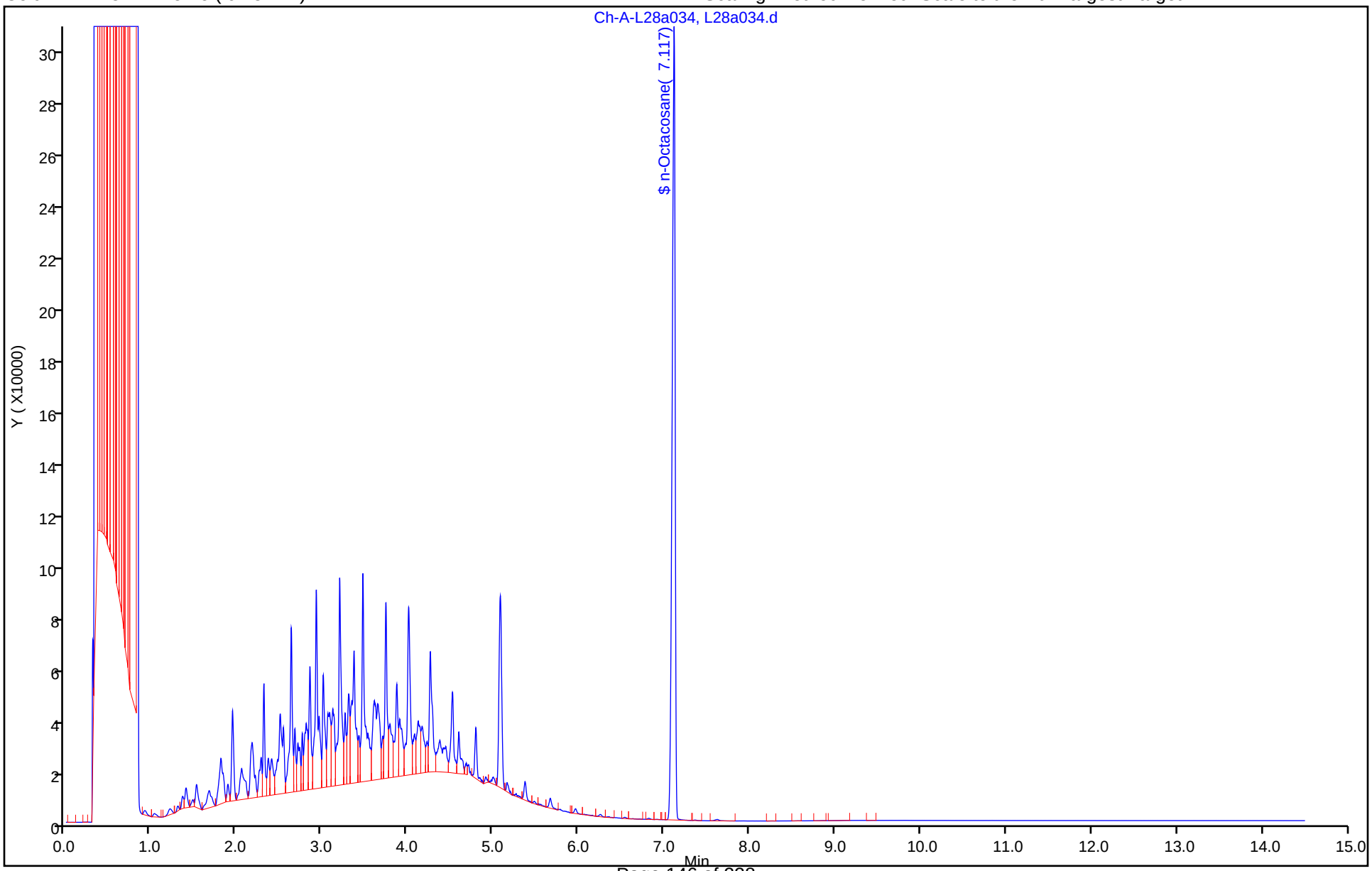
Report Date: 30-Dec-2018 12:29:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a034.d

Injection Date:	28-Dec-2018 20:41:14	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCV DIESEL2			Worklist Smp#:	34
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 30-Dec-2018 12:29:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a034.d

Injection Date: 28-Dec-2018 20:41:14 Instrument ID: GC69A

Lims ID: CCV DIESEL2

Client ID:

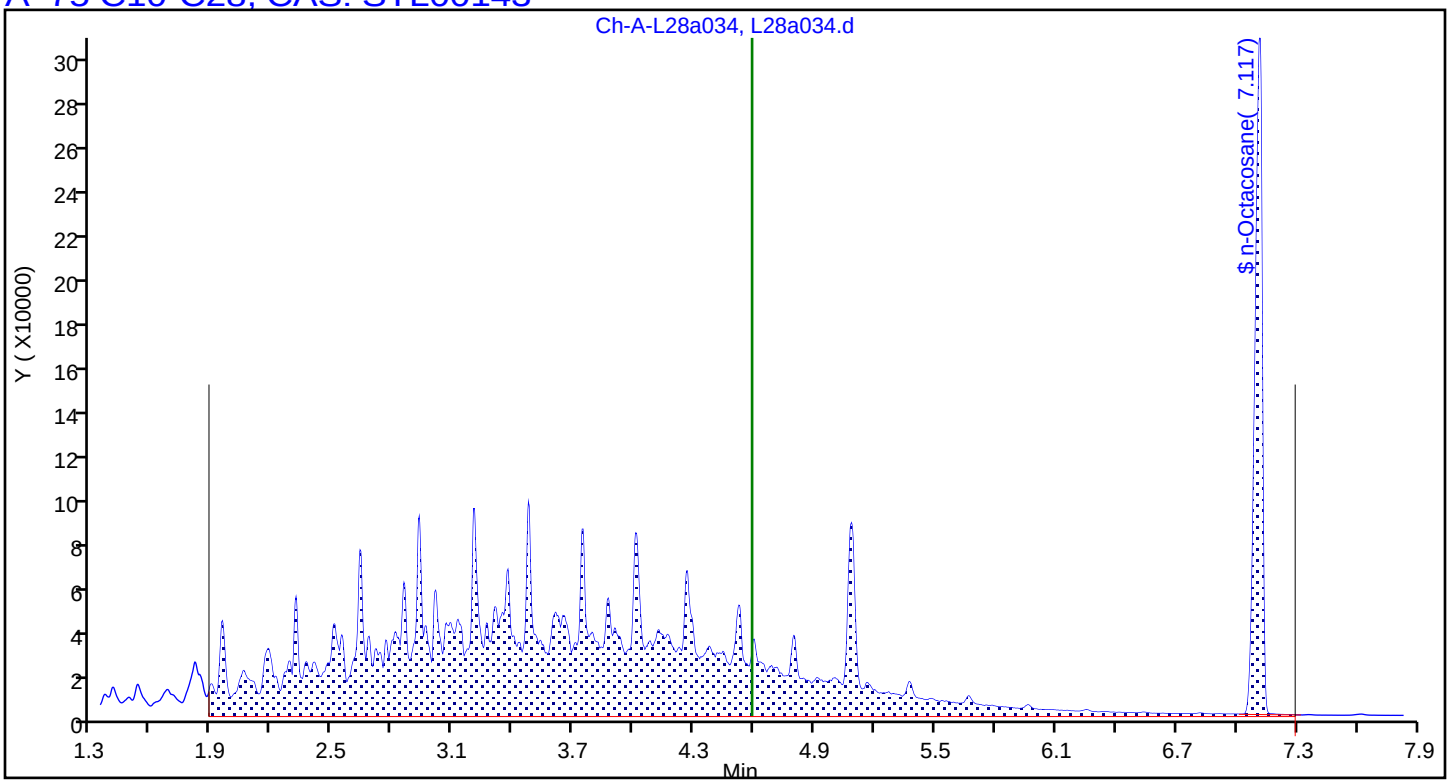
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 34

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-519777/48 Calibration Date: 12/29/2018 01:25

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L28a048.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3304	3351		761	750	1.4	15.0
n-Octacosane	Ave	3258	3627		167	150	11.3	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-519777/48 Calibration Date: 12/29/2018 01:25

Instrument ID: GC69A Calib Start Date: 09/26/2018 01:22

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 09/26/2018 03:05

Lab File ID: L28a048.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.59	1.88	7.29
n-Octacosane	7.11	7.08	7.14

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a048.d				
Lims ID:	CCV DIESEL1				
Client ID:					
Sample Type:	CCV				
Inject. Date:	29-Dec-2018 01:25:48	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Sublist:	chrom-8015DRO_69A*sub1				
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 12:38:06	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 12:38:06		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.588	(1.883-7.293)		2513374	750.0	760.8	
$ 127 n-Octacosane	7.108	7.112	-0.004	544052	150.0	167.0	

Reagents:

gc8015dslCCV1_00035 Amount Added: 1.00 Units: mL

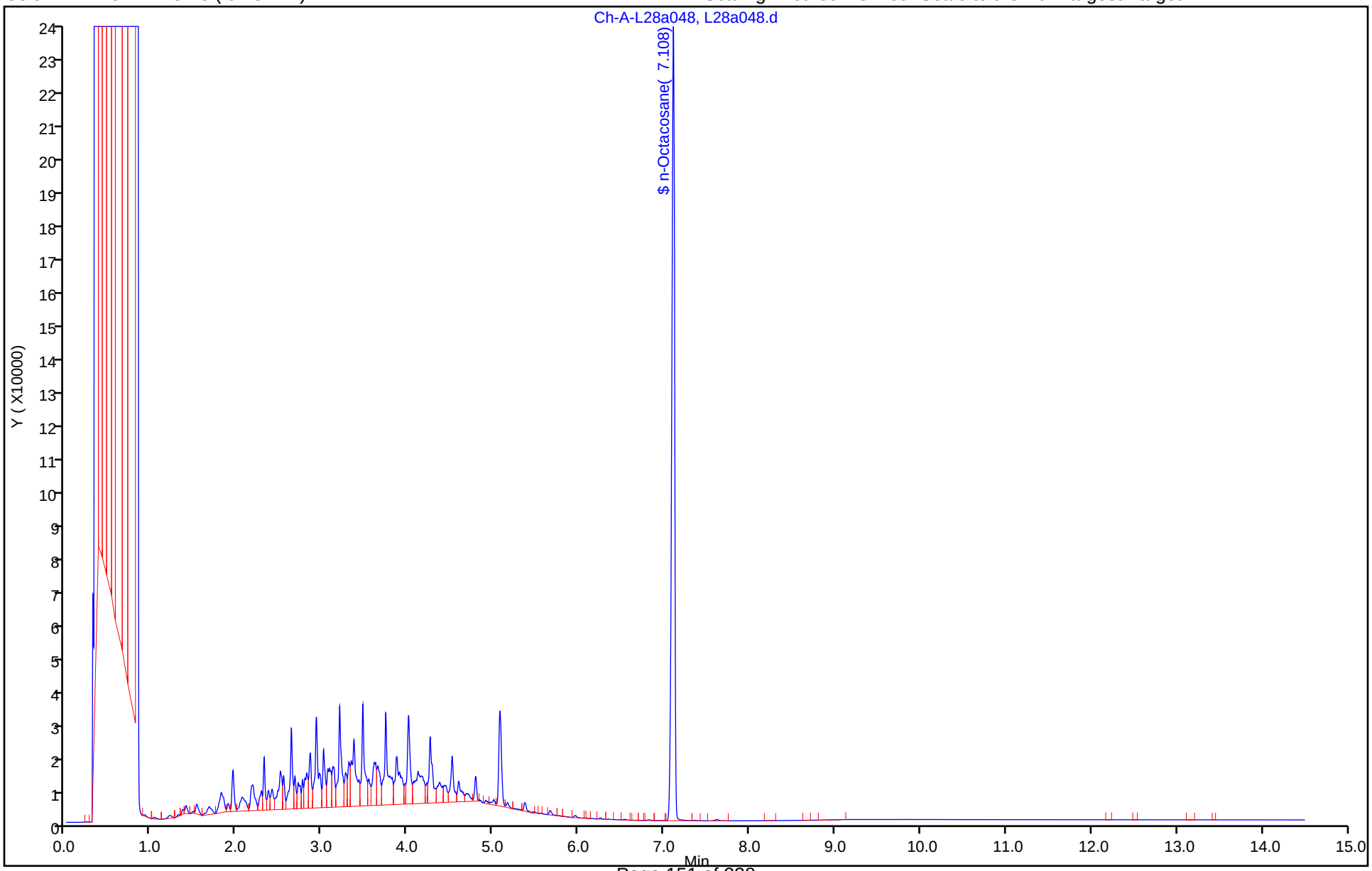
Report Date: 30-Dec-2018 12:38:06 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a048.d

Injection Date:	29-Dec-2018 01:25:48	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCV DIESEL1			Worklist Smp#:	48
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 30-Dec-2018 12:38:06 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a048.d

Injection Date: 29-Dec-2018 01:25:48 Instrument ID: GC69A

Lims ID: CCV DIESEL1

Client ID:

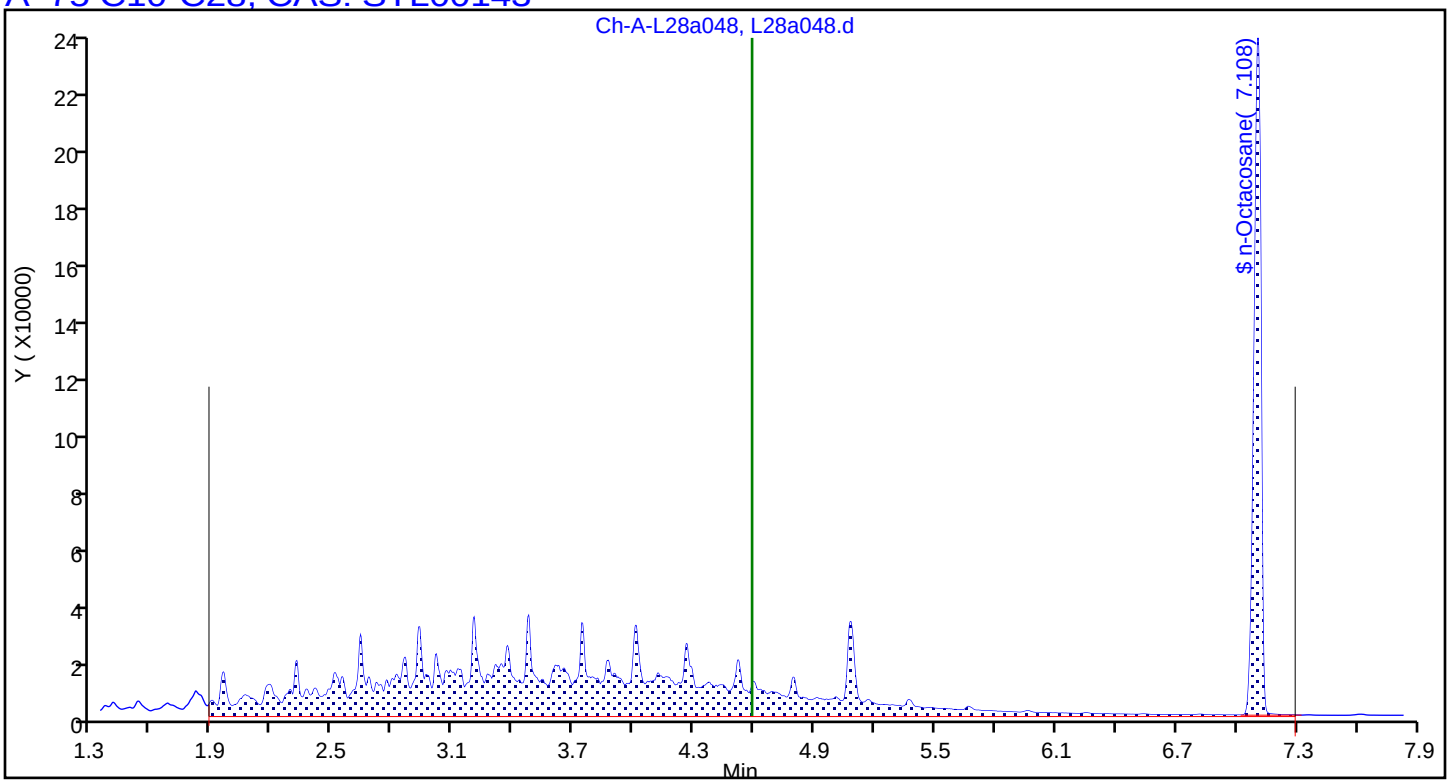
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 48

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCVRT 440-518683/5 Calibration Date: 12/21/2018 09:51

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L21a005.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3622	3601		746	750	-0.6	15.0
n-Octacosane	Ave	3679	3644		149	150	-0.9	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCVRT 440-518683/5 Calibration Date: 12/21/2018 09:51

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L21a005.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.64	2.03	7.26
n-Octacosane	7.08	6.98	7.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a005.d
Lims ID: CCVRT DIESEL1
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Dec-2018 09:51:18 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A
Sublist: chrom-8015DRO_70A*sub2

Method: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 21-Dec-2018 15:13:50 Calib Date: 11-Dec-2018 13:06:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0316

First Level Reviewer: doanm Date: 21-Dec-2018 15:07:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 47 C10-C22	3.808	(2.025-5.592)		2564512	250.0	708.0	
A 72 C10-C28	4.641	(2.025-7.257)		2700925	750.0	745.7	
A 83 C10-C32	5.143	(2.025-8.260)		2727478	250.0	753.0	
$ 127 n-Octacosane	7.075	7.075	0.000	546603	150.0	148.6	

Reagents:

gc8015dslCCV1_00034 Amount Added: 1.00 Units: mL

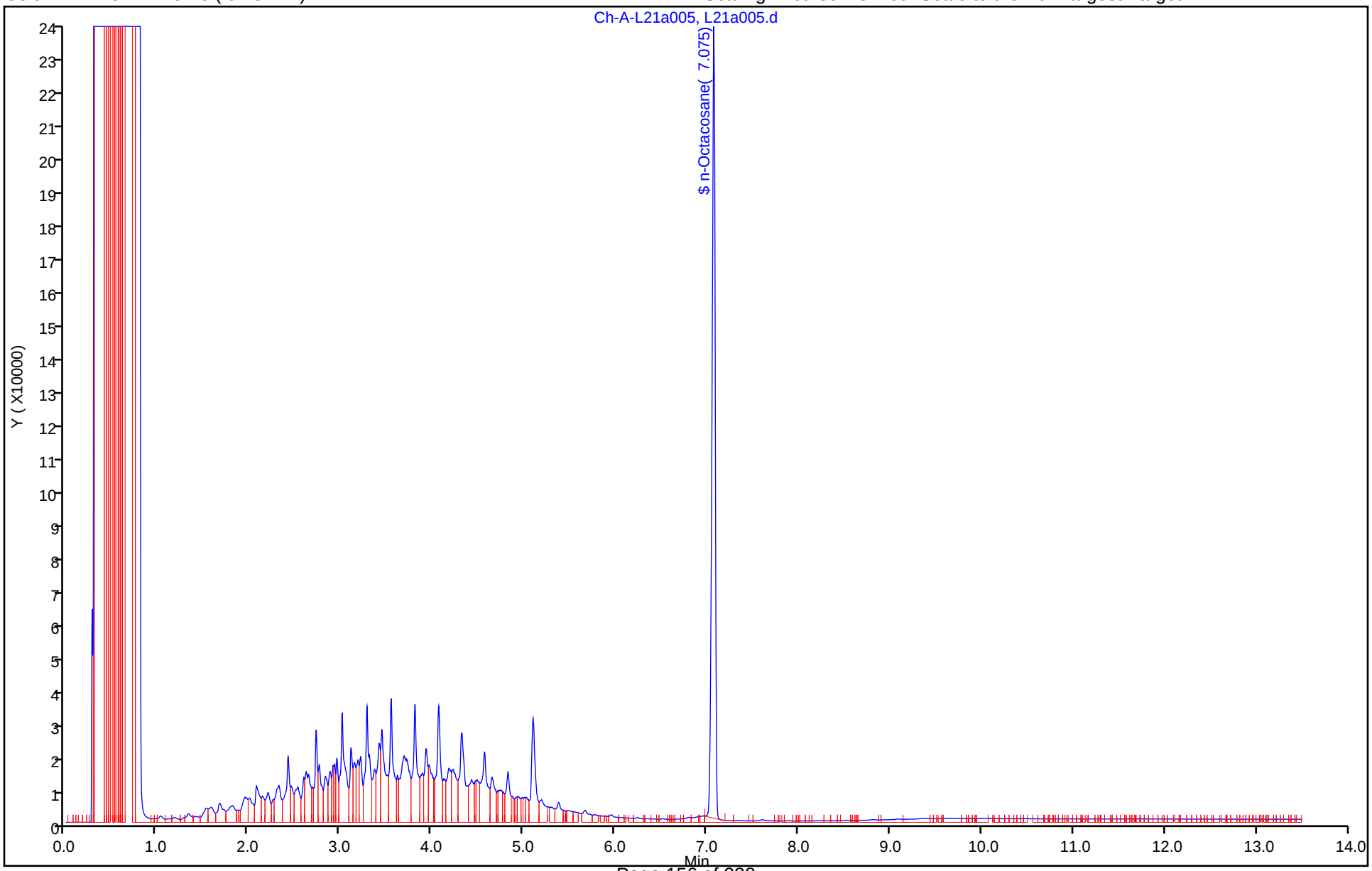
Report Date: 21-Dec-2018 15:13:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a005.d

Injection Date:	21-Dec-2018 09:51:18	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCVRT DIESEL1			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 21-Dec-2018 15:13:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a005.d

Injection Date: 21-Dec-2018 09:51:18 Instrument ID: GC70A

Lims ID: CCVRT DIESEL1

Client ID:

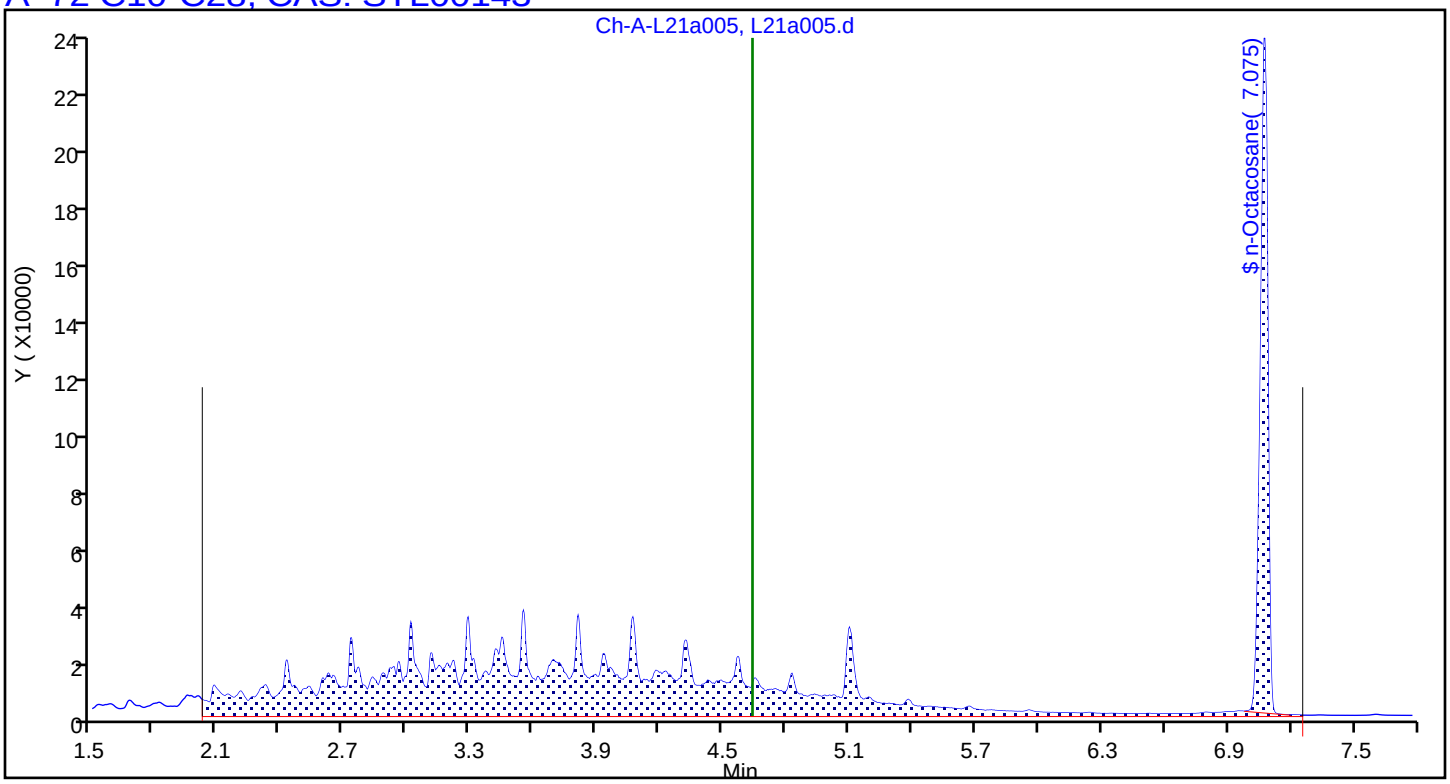
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_70A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 72 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-518683/29 Calibration Date: 12/21/2018 20:32

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L21a029.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3622	3691		764	750	1.9	15.0
n-Octacosane	Ave	3679	3599		147	150	-2.2	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-518683/29 Calibration Date: 12/21/2018 20:32

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L21a029.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.64	2.03	7.26
n-Octacosane	7.09	6.98	7.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a029.d				
Lims ID:	ccv diesel1				
Client ID:					
Sample Type:	CCV				
Inject. Date:	21-Dec-2018 20:32:06	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Dec-2018 20:47:26	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	21-Dec-2018 20:47:26		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.641	(2.025-7.257)		2768151	750.0	764.2	
$ 127 n-Octacosane	7.092	7.075	0.017	539829	150.0	146.7	

Reagents:

gc8015dslCCV1_00035 Amount Added: 1.00 Units: mL

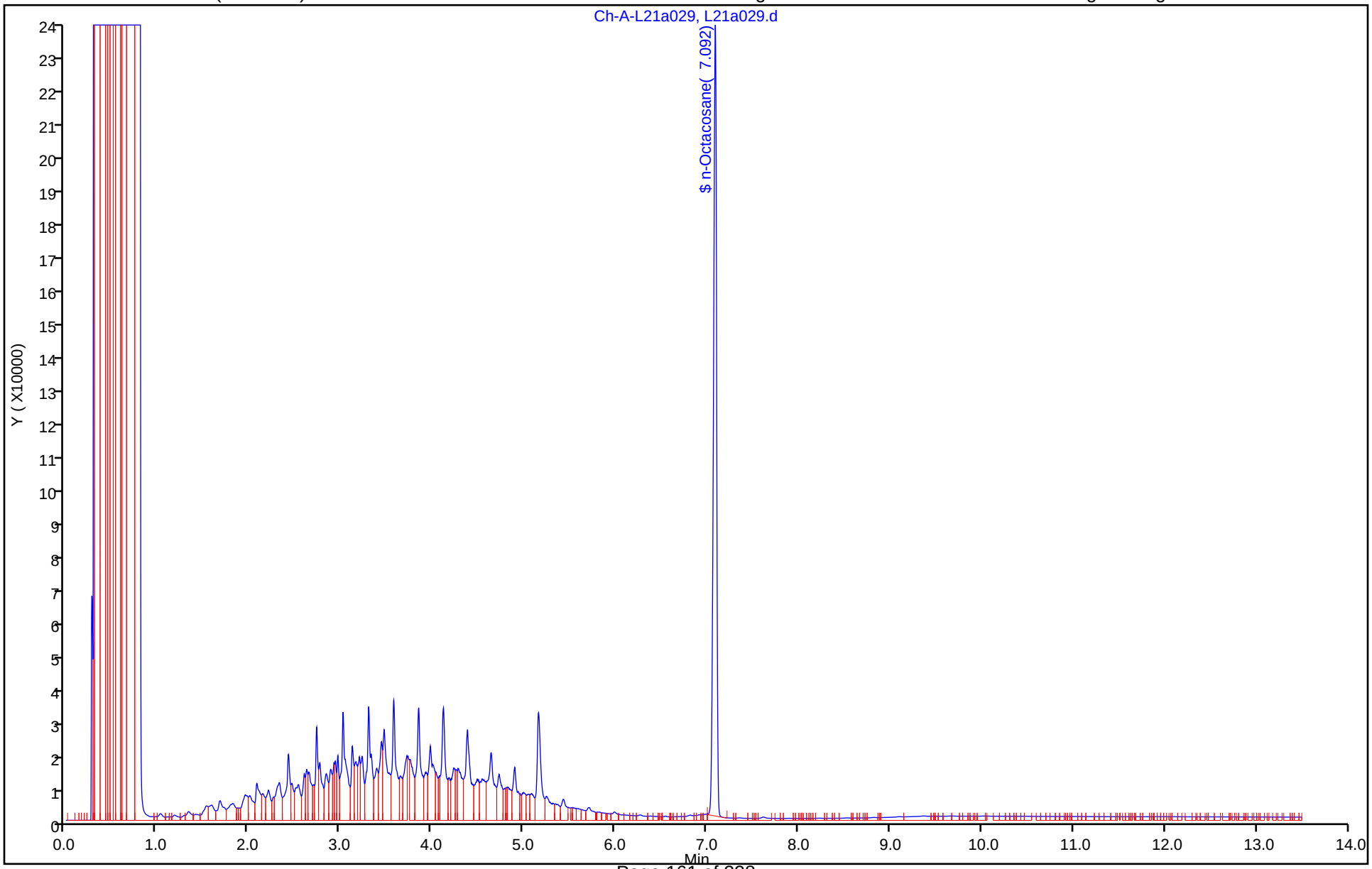
Report Date: 21-Dec-2018 20:47:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a029.d

Injection Date:	21-Dec-2018 20:32:06	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	ccv diesel1			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 21-Dec-2018 20:47:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a029.d

Injection Date: 21-Dec-2018 20:32:06 Instrument ID: GC70A

Lims ID: ccv diesel1

Client ID:

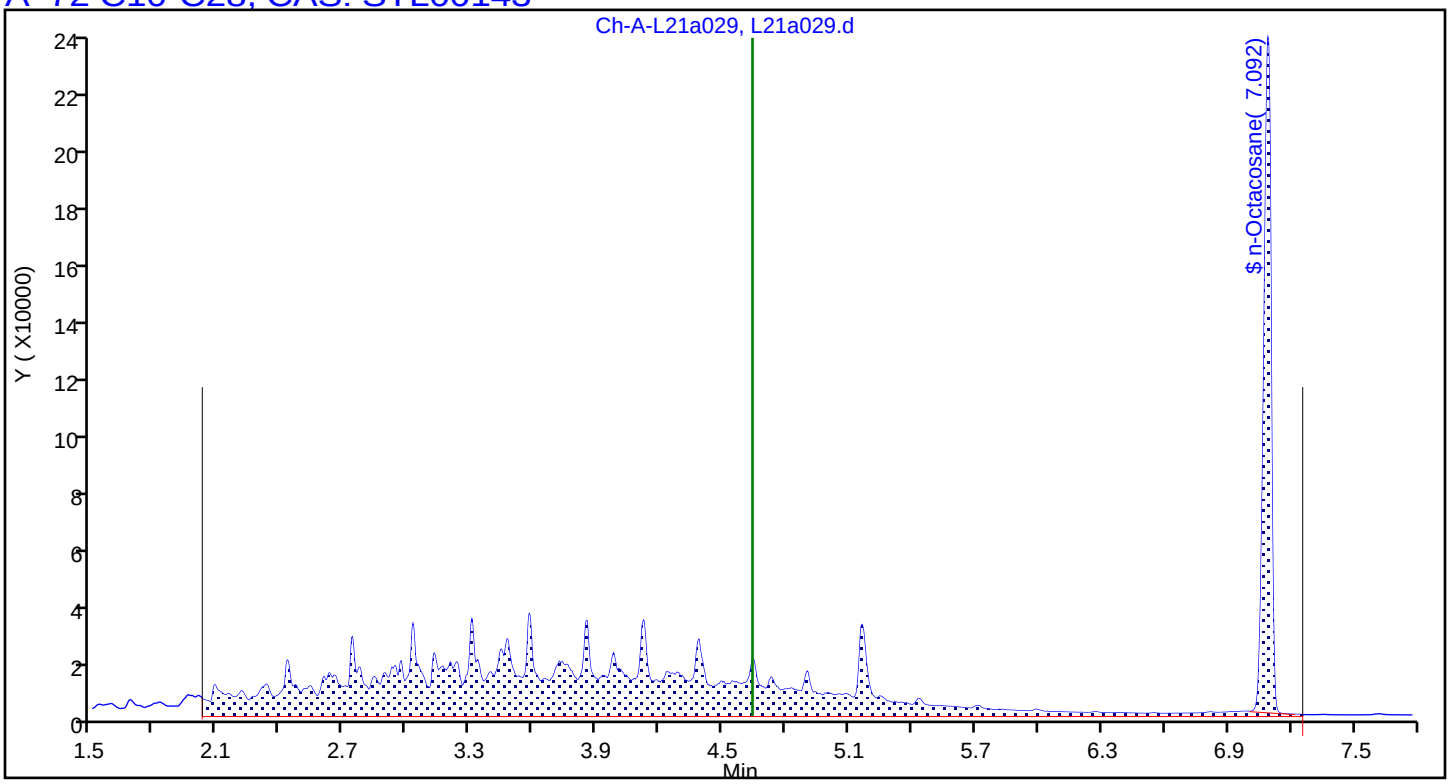
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_70A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 72 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-518683/37 Calibration Date: 12/21/2018 23:46

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L21a037.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3622	3550		1960	2000	-2.0	15.0
n-Octacosane	Ave	3679	3530		192	200	-4.1	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-518683/37 Calibration Date: 12/21/2018 23:46

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L21a037.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.64	2.03	7.26
n-Octacosane	7.09	6.98	7.18

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a037.d				
Lims ID:	ccv diesel2				
Client ID:					
Sample Type:	CCV				
Inject. Date:	21-Dec-2018 23:46:11	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:18:55	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	22-Dec-2018 00:18:55		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.641	(2.025-7.257)		7100437	2000.0	1960.3	
$ 127 n-Octacosane	7.092	7.075	0.017	705965	200.0	191.9	

Reagents:

gc8015dslCCV2_00042 Amount Added: 1.00 Units: mL

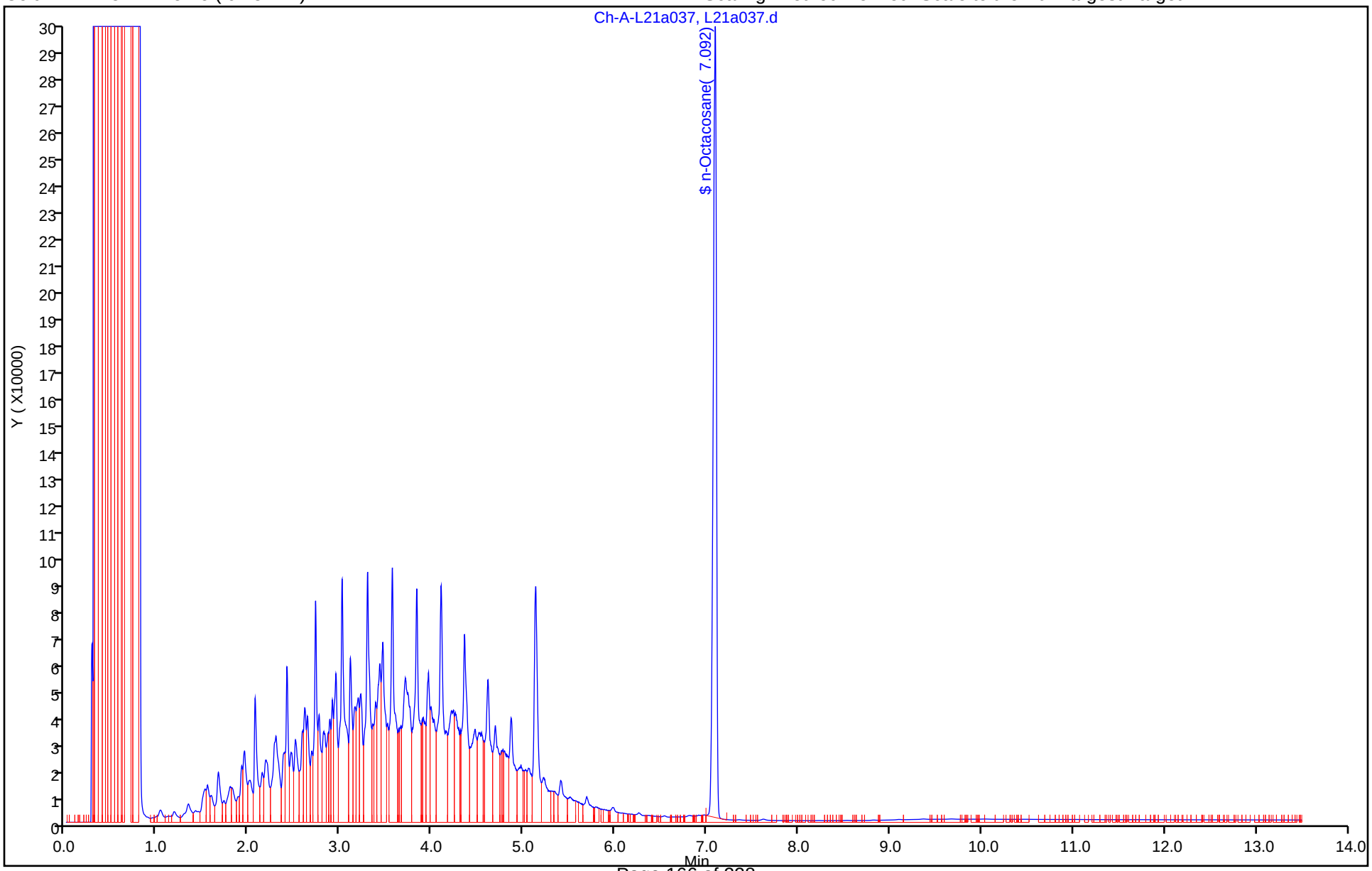
Report Date: 22-Dec-2018 00:18:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a037.d

Injection Date:	21-Dec-2018 23:46:11	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	ccv diesel2			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 22-Dec-2018 00:18:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a037.d

Injection Date: 21-Dec-2018 23:46:11 Instrument ID: GC70A

Lims ID: ccv diesel2

Client ID:

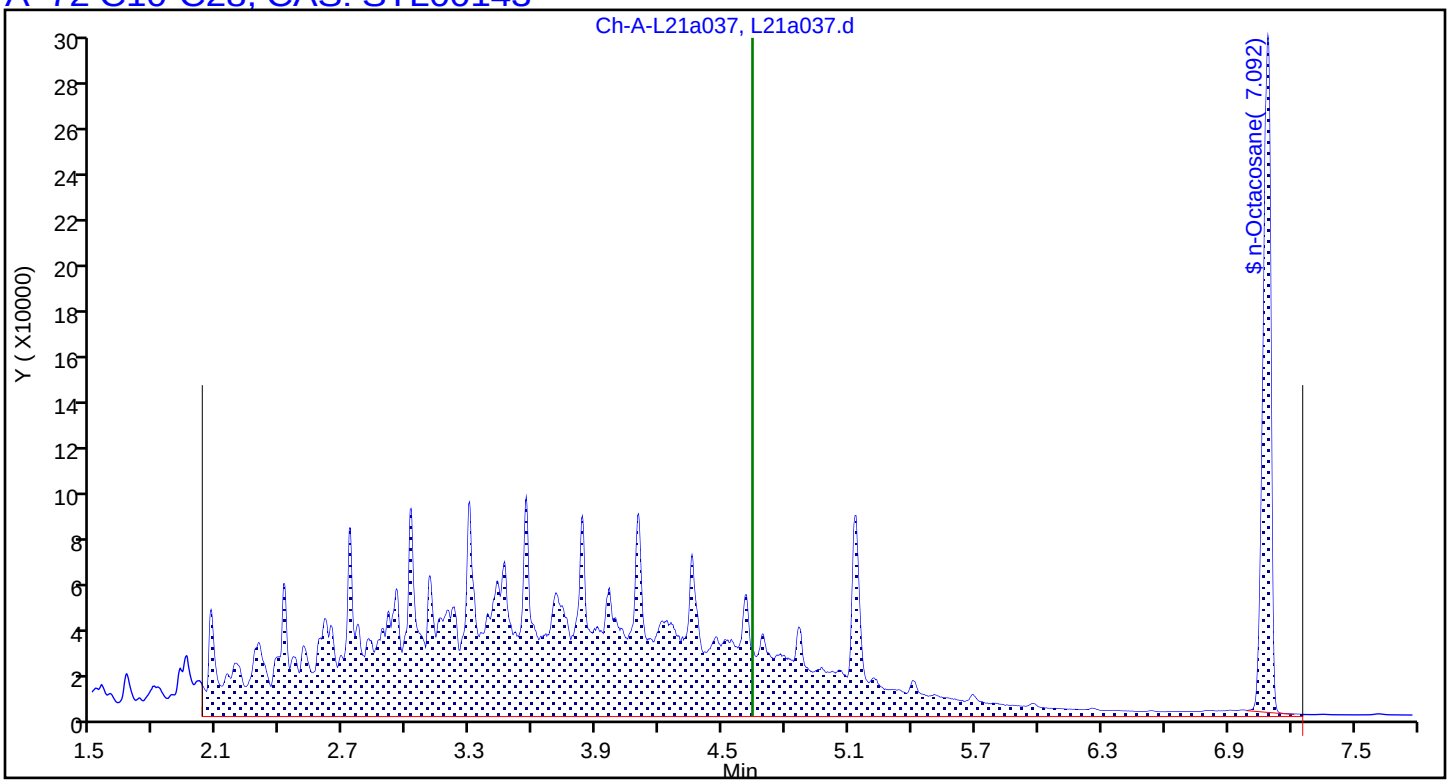
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 37

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_70A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 72 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCVRT 440-519500/5 Calibration Date: 12/27/2018 09:32

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L27a005.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3622	3427		710	750	-5.4	15.0
n-Octacosane	Ave	3679	3492		142	150	-5.1	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCVRT 440-519500/5 Calibration Date: 12/27/2018 09:32

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L27a005.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.65	2.04	7.27
n-Octacosane	7.10	7.00	7.20

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a005.d				
Lims ID:	CCVRT DIESEL1				
Client ID:					
Sample Type:	CCVRT				
Inject. Date:	27-Dec-2018 09:32:33	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 07:03:35	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: doanm		Date:	28-Dec-2018 07:03:35		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.654	(2.040-7.268)		2570531	750.0	709.7	
$ 127 n-Octacosane	7.095	7.095	0.000	523773	150.0	142.4	

Reagents:

gc8015dslCCV1_00035 Amount Added: 1.00 Units: mL

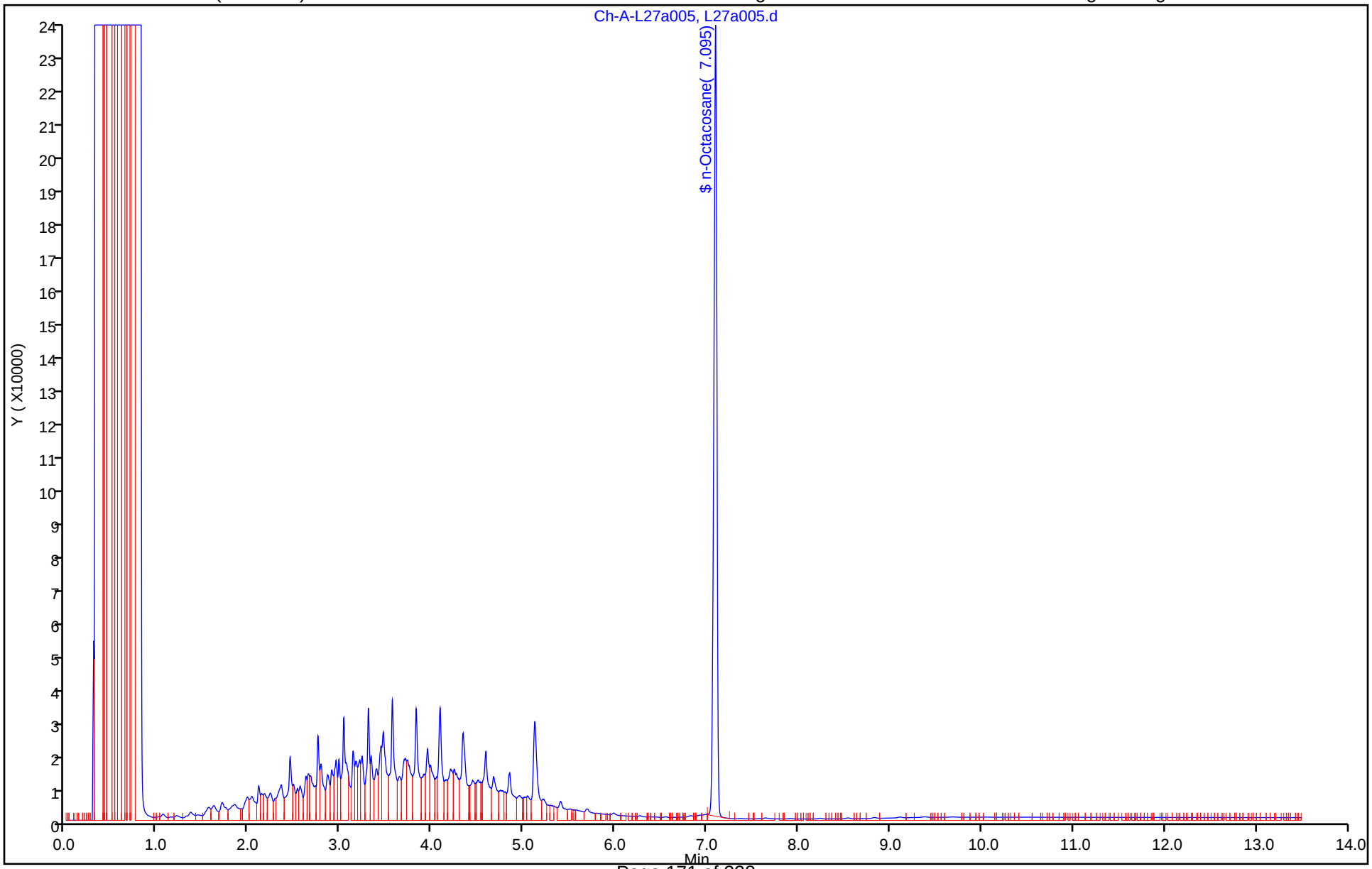
Report Date: 28-Dec-2018 07:03:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a005.d

Injection Date:	27-Dec-2018 09:32:33	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCVRT DIESEL1			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

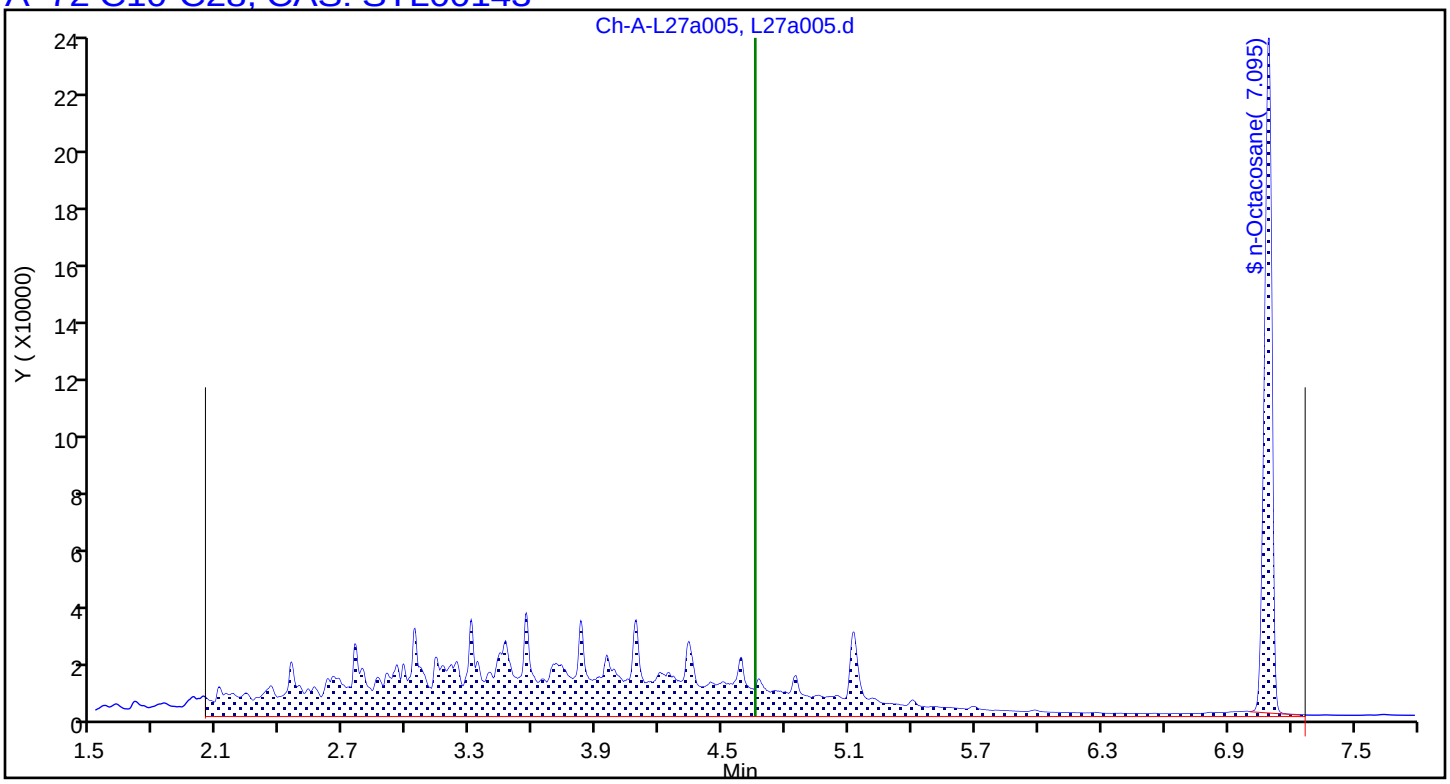


Report Date: 28-Dec-2018 07:03:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a005.d				
Injection Date:	27-Dec-2018 09:32:33	Instrument ID:	GC70A		
Lims ID:	CCVRT DIESEL1				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-519500/19 Calibration Date: 12/27/2018 14:52

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L27a019.d Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diesel Range Organics [C10-C28]	Ave	3622	3343		1850	2000	-7.7	15.0
n-Octacosane	Ave	3679	3441		187	200	-6.5	30.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Lab Sample ID: CCV 440-519500/19 Calibration Date: 12/27/2018 14:52

Instrument ID: GC70A Calib Start Date: 04/10/2018 21:51

GC Column: ZB-5HT Inferno ID: 0.25(mm) Calib End Date: 04/10/2018 23:38

Lab File ID: L27a019.d

Analyte	RT	RT WINDOW	
		FROM	TO
Diesel Range Organics [C10-C28]	4.65	2.04	7.27
n-Octacosane	7.10	6.99	7.19

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a019.d				
Lims ID:	CCV DIESEL2				
Client ID:					
Sample Type:	CCV				
Inject. Date:	27-Dec-2018 14:52:39	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Sublist:	chrom-8015DRO_70A*sub2				
Method:	\\chromna\Irvine\ChromData\GC70A\20181227-113582.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Dec-2018 16:06:42	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: doanm		Date:	28-Dec-2018 16:06:37		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.654	(2.040-7.268)		6685127	2000.0	1845.6	
$ 127 n-Octacosane	7.102	7.092	0.010	688279	200.0	187.1	

Reagents:

gc8015dslCCV2_00042 Amount Added: 1.00 Units: mL

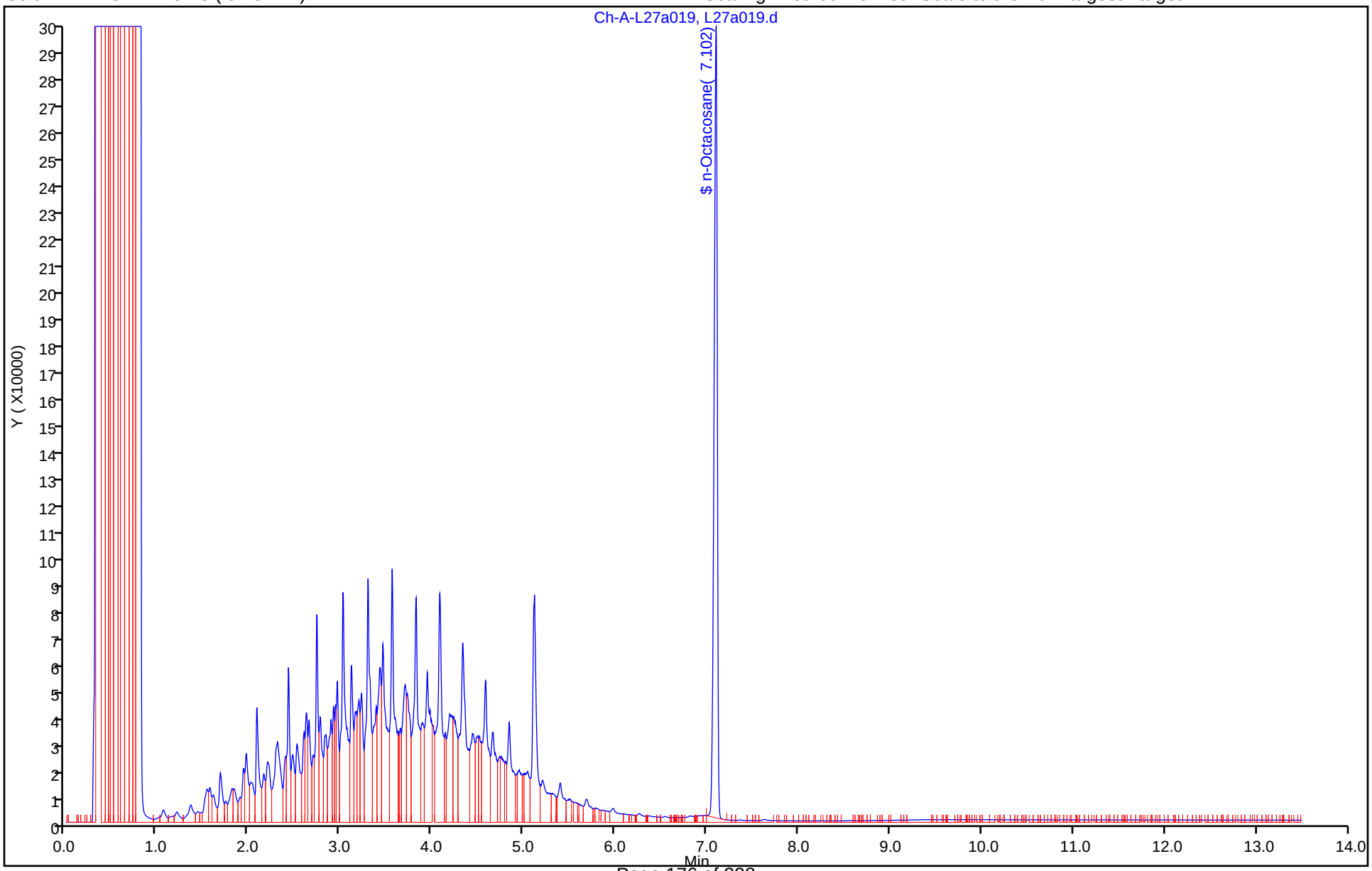
Report Date: 28-Dec-2018 16:06:42 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a019.d

Injection Date:	27-Dec-2018 14:52:39	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	CCV DIESEL2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 28-Dec-2018 16:06:42 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181227-113582.b\L27a019.d

Injection Date: 27-Dec-2018 14:52:39 Instrument ID: GC70A

Lims ID: CCV DIESEL2

Client ID:

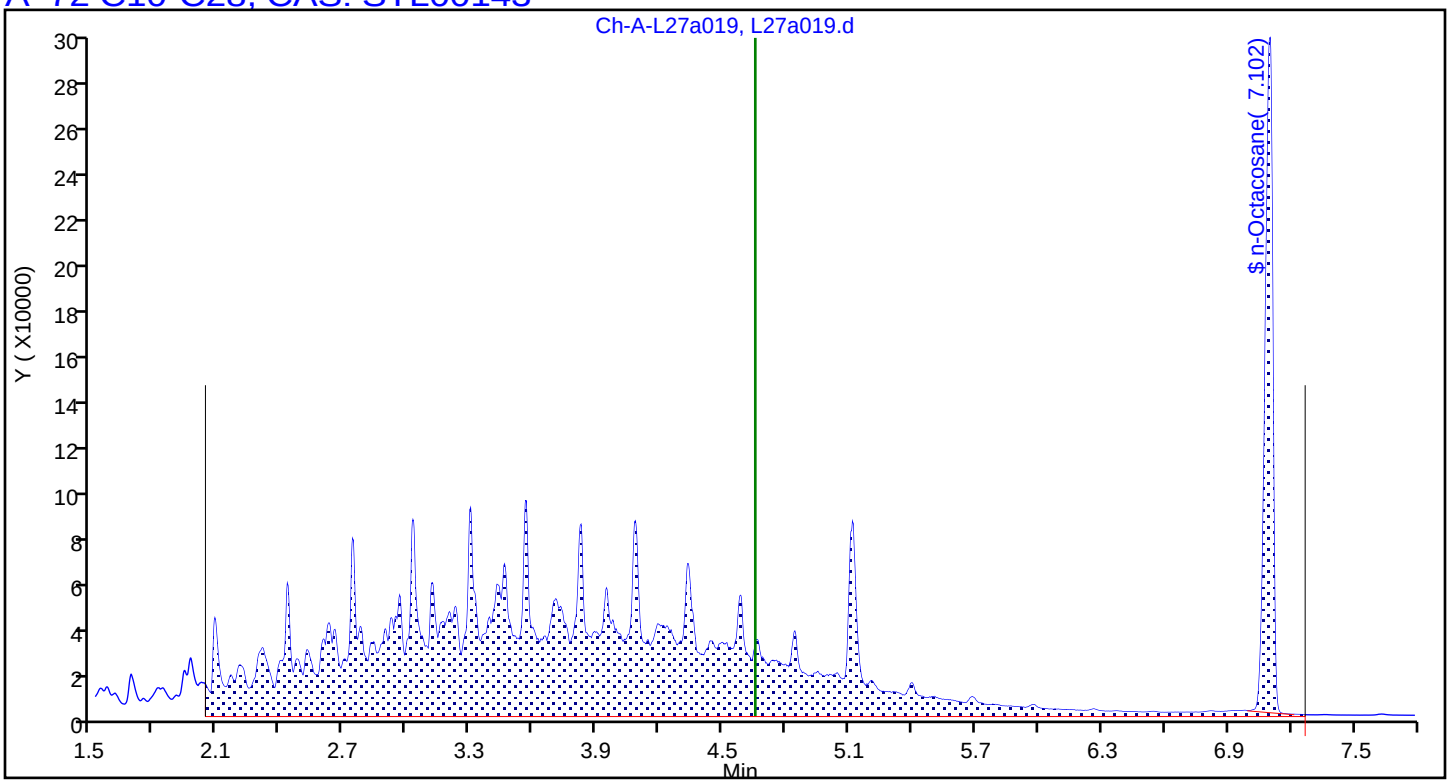
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_70A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 72 C10-C28, CAS: STL00143



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 440-518633/1-A

Matrix: Water | Lab File ID: L21a036.d

Analysis Method: 8015B | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:02

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2018 20:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 518682 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	ND		500	100
STL00158	Motor Oil Range Organics [C24-C36]	ND		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	79		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a036.d
Lims ID: MB 440-518633/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Dec-2018 20:03:29 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A

Method: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 22-Dec-2018 01:00:24 Calib Date: 21-Dec-2018 12:10:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0320

First Level Reviewer: barnettl Date: 22-Dec-2018 01:00:24

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 2 C7 Range	0.664	(0.342-0.987)		29154971		8824.7	E
A 4 C8 Range	1.213	(0.987-1.438)		9090		2.75	
A 6 C8-C9	1.433	(0.987-1.878)		16050		4.86	
A 8 C8-C10	1.620	(0.987-2.253)		23616		7.15	
A 9 C9 Range	1.658	(1.438-1.878)		6960		2.11	
A 10 C8-C11	1.791	(0.987-2.595)		29543		8.94	
A 11 C9-C10	1.846	(1.438-2.253)		14526		4.40	
A 12 C7-C14	1.887	(0.342-3.432)		29198593		8837.9	E
A 14 C10 Range	2.066	(1.878-2.253)		7565		2.29	
A 15 C9-C12	2.162	(1.438-2.885)		25102		7.60	
A 16 C10-C11	2.237	(1.878-2.595)		13492		4.08	
A 196 C9-C13	2.295	(1.438-3.152)		29788		9.02	
A 20 C8-C15	2.343	(0.987-3.698)		47940		14.5	
A 21 C10-C12	2.382	(1.878-2.885)		18141		5.49	
A 22 C11 Range	2.424	(2.253-2.595)		5927		1.79	
A 23 C8-C16	2.473	(0.987-3.958)		52485		15.9	
A 24 C11-C12	2.569	(2.253-2.885)		10576		3.20	
A 29 C8-C18 DRO	2.696	(0.987-4.405)		59284		17.9	
A 27 C8-C18	2.696	(0.987-4.405)		59284		15.9	
A 30 C9-C16	2.698	(1.438-3.958)		43394		13.1	
A 31 C12 Range	2.740	(2.595-2.885)		4648		1.41	
A 32 C9 - C17	2.824	(1.438-4.210)		47287		14.3	
A 33 C12-C13	2.873	(2.595-3.152)		9335		2.83	
A 34 C9 - C18	2.922	(1.438-4.405)		50194		15.2	
35 C13	2.985	2.923	0.062	365		0.1105	
A 36 C12-C14	3.013	(2.595-3.432)		14078		4.26	
A 37 C13 Range	3.018	(2.885-3.152)		4686		1.42	
A 199 C10-C18	3.142	(1.878-4.405)		43234		13.1	
A 38 C13-C14	3.158	(2.885-3.432)		9429		2.85	
A 40 C8-C22	3.222	(0.987-5.457)		75375		22.8	
A 41 C13-C15	3.292	(2.885-3.698)		13748		4.16	
A 43 C14 Range	3.292	(3.152-3.432)		4742		1.44	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 44 C14-C15	3.425	(3.152-3.698)		9061		2.74	
A 46 C10-C21	3.516	(1.878-5.153)		55138		16.7	
A 47 C8-C24	3.528	(0.987-6.068)		83291		25.2	
A 48 C14-C16	3.555	(3.152-3.958)		13606		4.12	
A 50 C10-C22	3.668	(1.878-5.457)		59324		18.0	
A 49 C15-C16	3.695	(3.432-3.958)		8863		2.68	
A 52 C9-C24	3.753	(1.438-6.068)		74200		22.5	
A 53 C10-C23	3.811	(1.878-5.743)		62838		19.0	
A 55 C11-C22	3.855	(2.253-5.457)		51758		15.7	
A 54 C12-C21	3.874	(2.595-5.153)		41645		12.6	
A 56 C16-C17	3.954	(3.698-4.210)		8437		2.55	
A 57 C9-C25	3.956	(1.438-6.473)		81861		24.8	
A 58 C10-C24	3.973	(1.878-6.068)		67240		20.4	
A 60 C12-C22	4.026	(2.595-5.457)		45831		13.9	
A 61 C8-C28	4.129	(0.987-7.272)		104095		31.5	
A 64 C15-C20	4.167	(3.432-4.902)		24293		7.35	
A 67 C12-C23	4.169	(2.595-5.743)		49345		14.9	
A 66 C13-C22	4.171	(2.885-5.457)		41182		12.5	
A 63 C10-C25	4.176	(1.878-6.473)		74900		22.7	
A 65 C17-C18	4.182	(3.958-4.405)		6799		2.06	
A 70 C13-C23	4.314	(2.885-5.743)		44696		13.5	
A 71 C12-C24	4.332	(2.595-6.068)		53747		16.3	
A 69 C8-C30	4.393	(0.987-7.798)		116520		35.3	
A 72 C18-C19	4.443	(4.210-4.675)		6976		2.11	
A 76 C8-C32	4.486	(0.987-7.985)		120898		36.6	
74 C19	4.472	4.518	-0.046	461		0.1395	
A 62 Diesel	4.575	(1.878-7.272)		27854		8.43	
A 75 C10-C28	4.575	(1.878-7.272)		88044		26.6	
A 77 C16-C22	4.578	(3.698-5.457)		27434		8.30	
A 87 C7-C36	4.643	(0.342-8.945)		29302931		8869.5	E
A 78 C19-C20	4.653	(4.405-4.902)		8630		2.61	
A 80 C10-C30	4.838	(1.878-7.798)		100470		30.4	
A 81 C8-C34	4.864	(0.987-8.742)		141218		42.7	
A 82 C20-C21	4.914	(4.675-5.153)		7834		2.37	
A 84 C10-C32	4.932	(1.878-7.985)		104847		31.7	
A 197 C13-C27	4.952	(2.885-7.018)		65342		19.8	
A 83 C8-C36	4.966	(0.987-8.945)		147959		44.8	
A 85 C13-C28	5.078	(2.885-7.272)		69902		21.2	
A 88 C21-C22	5.179	(4.902-5.457)		7460		2.26	
A 89 C20-C23	5.209	(4.675-5.743)		15534		4.70	
A 90 C13-C30	5.342	(2.885-7.798)		82328		24.9	
A 93 C10-C36	5.412	(1.878-8.945)		131909		39.9	
A 94 C13-C32	5.435	(2.885-7.985)		86705		26.2	
A 92 C22-C23	5.448	(5.153-5.743)		7699		2.33	
A 95 C12-C34	5.668	(2.595-8.742)		111674		33.8	
A 97 C8-C40	5.669	(0.987-10.352)		200744		60.8	
A 198 C18-C28	5.741	(4.210-7.272)		47716		14.4	
A 98 C23-C24	5.763	(5.457-6.068)		7915		2.40	
A 99 C9-C40	5.880	(1.438-10.322)		190551		57.7	
A 102 C13-C36	5.915	(2.885-8.945)		113767		34.4	
A 209 C17-C32	5.972	(3.958-7.985)		68413		20.7	
A 100 C18-C30	6.004	(4.210-7.798)		60142		18.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 103 C24-C25	6.108	(5.743-6.473)		12062		3.65	
A 104 C10-C40	6.115	(1.878-10.352)		184693		55.9	
105 C25	6.265	6.255	0.010	1943		0.5881	
A 108 C16-C36	6.322	(3.698-8.945)		100019		30.3	
A 110 C20-C32	6.330	(4.675-7.985)		57543		17.4	
A 106 C21-C30	6.350	(4.902-7.798)		48605		14.7	
A 107 C24-C27	6.381	(5.743-7.018)		20645		6.25	
A 109 C25-C26	6.409	(6.068-6.750)		11514		3.49	
A 112 C17-C36	6.452	(3.958-8.945)		95474		28.9	
A 119 C22-C32	6.569	(5.153-7.985)		49708		15.0	
A 114 C18-C36	6.578	(4.210-8.945)		91581		27.7	
A 116 C13 - C40	6.618	(2.885-10.352)		166551		50.4	
A 115 C13-C40	6.618	(2.885-10.352)		166551		50.4	
A 117 C25-C28	6.670	(6.068-7.272)		20804		6.30	
A 122 C23-C32	6.721	(5.457-7.985)		45522		13.8	
A 118 C26-C27	6.746	(6.473-7.018)		8583		2.60	
A 121 C8-C44	6.793	(0.987-12.598)		279259		84.5	
A 210 C20-C36	6.810	(4.675-8.945)		84604		25.6	
120 C27	6.817	6.823	-0.006	688		0.2082	
A 125 C24-C32	6.864	(5.743-7.985)		42008		12.7	
A 123 C27-C28	7.011	(6.750-7.272)		9289		2.81	
A 126 C16-C40	7.020	(3.698-10.342)		152435		46.1	
A 128 C23-C34	7.099	(5.457-8.742)		65842		19.9	
$ 127 n-Octacosane	7.105	7.103	0.002	516029	200.0	158.4	
A 124 C22-C35	7.172	(5.153-9.190)		85992		26.0	
A 133 C23-C36	7.201	(5.457-8.945)		72584		22.0	
A 132 C10-C44	7.238	(1.878-12.598)		263208		79.7	
A 130 C28-C29	7.248	(7.018-7.478)		9356		2.83	
A 131 C18-C40	7.281	(4.210-10.352)		144366		43.7	
A 129 C23-C35	7.323	(5.457-9.190)		81806		24.8	
A 136 C24-C36	7.344	(5.743-8.945)		69070		20.9	
134 C29	7.360	7.367	-0.007	568		0.1719	
A 135 C19-C40	7.378	(4.405-10.352)		141459		42.8	
A 141 C25-C36	7.507	(6.068-8.945)		64668		19.6	
A 139 C20-C40	7.513	(4.675-10.352)		137389		41.6	
A 138 C28-C31	7.653	(7.018-8.287)		28647		8.67	
A 144 C13-C44	7.742	(2.885-12.598)		245066		74.2	
145 C31	7.882	7.880	0.002	106		0.0321	
A 142 C30-C31	7.883	(7.478-8.287)		19290		5.84	
A 147 C31-C32	7.892	(7.798-7.985)		4377		1.32	
A 146 C23-C40	7.904	(5.457-10.352)		125369		37.9	
A 148 C28-C36	7.982	(7.018-8.945)		48424		14.7	
A 150 C24-C40	8.048	(5.743-10.352)		121855		36.9	
152 C33	8.145	8.127	0.018	270		0.0817	
A 151 C25-C40	8.210	(6.068-10.352)		117453		35.6	
A 153 C17-C44	8.263	(3.958-12.568)		225772		68.3	
A 155 C33-C34	8.363	(7.985-8.742)		20320		6.15	
A 158 C33-C36	8.465	(7.985-8.945)		27061		8.19	
A 157 C32-C36	8.616	(8.287-8.945)		19777		5.99	
A 154 C32-C35	8.738	(8.287-9.190)		28999		8.78	
A 161 C35-C36	8.843	(8.742-8.945)		6741		2.04	
A 164 C23-C44	9.028	(5.457-12.598)		203884		61.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 163 C31-C40	9.075	(7.798-10.352)		84223		25.5	
A 167 C33-C40	9.168	(7.985-10.352)		79846		24.2	
A 166 C24-C44	9.171	(5.743-12.598)		200369		60.6	
A 168 C37-C38	9.311	(8.945-9.677)		27819		8.42	
A 171 C35-C40	9.542	(8.742-10.342)		59158		17.9	
A 169 C36-C39	9.613	(9.190-10.037)		31945		9.67	
A 174 C37-C40	9.648	(8.945-10.352)		52784		16.0	
A 172 C36-C40	9.771	(9.190-10.352)		43562		13.2	
175 C39	9.797	9.837	-0.040	764		0.2312	
A 178 C39-C40	10.014	(9.677-10.352)		24964		7.56	
A 180 C33-C44	10.292	(7.985-12.598)		158361		47.9	
A 173 C40-C44	11.318	(10.037-12.598)		90132		27.3	
A 176 C41-C44	11.460	(10.322-12.598)		79617		24.1	
S 189 HC Dist (C13-C44)						70.7	
S 190 HC Dist (C13-C28)						21.2	
S 191 HC Dist (C8-C40)						60.8	
S 192 HC Dist (C8-C44)						84.9	
S 193 HC Dist (C10-C44)						80.0	
S 188 HC Dist (C10-C40)						55.9	
S 195 HC Dist (C13-C40)						46.6	
S 194 HC Dist (C10-C36)						39.9	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

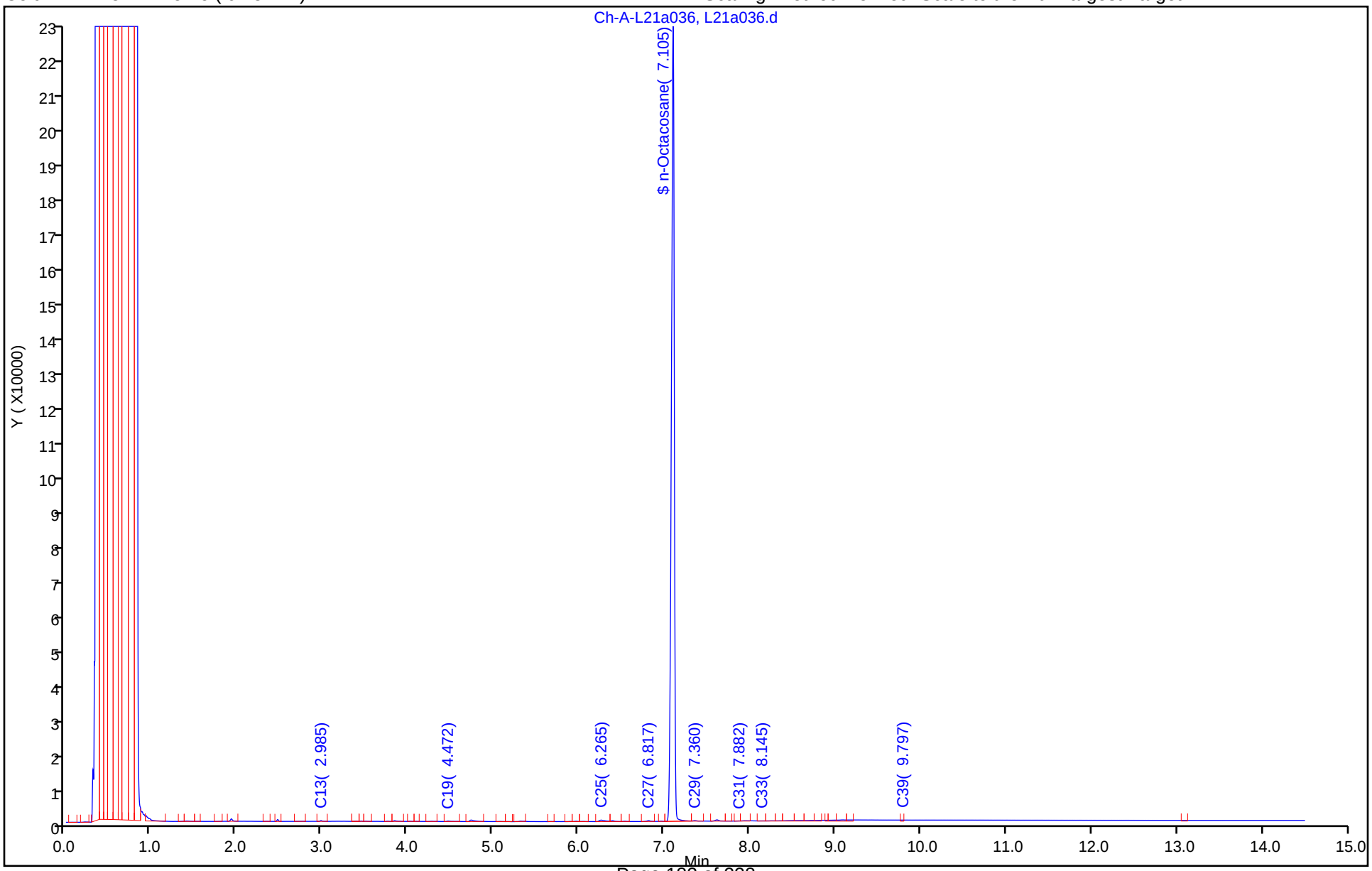
Report Date: 22-Dec-2018 01:00:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a036.d

Injection Date:	21-Dec-2018 20:03:29	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	MB 440-518633/1-A			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a036.d				
Lims ID:	MB 440-518633/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	21-Dec-2018 20:03:29	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 01:00:24	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 22-Dec-2018 01:00:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	158.4	79.19

Report Date: 22-Dec-2018 01:00:28 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a036.d

Injection Date: 21-Dec-2018 20:03:29 Instrument ID: GC69A

Lims ID: MB 440-518633/1-A

Client ID:

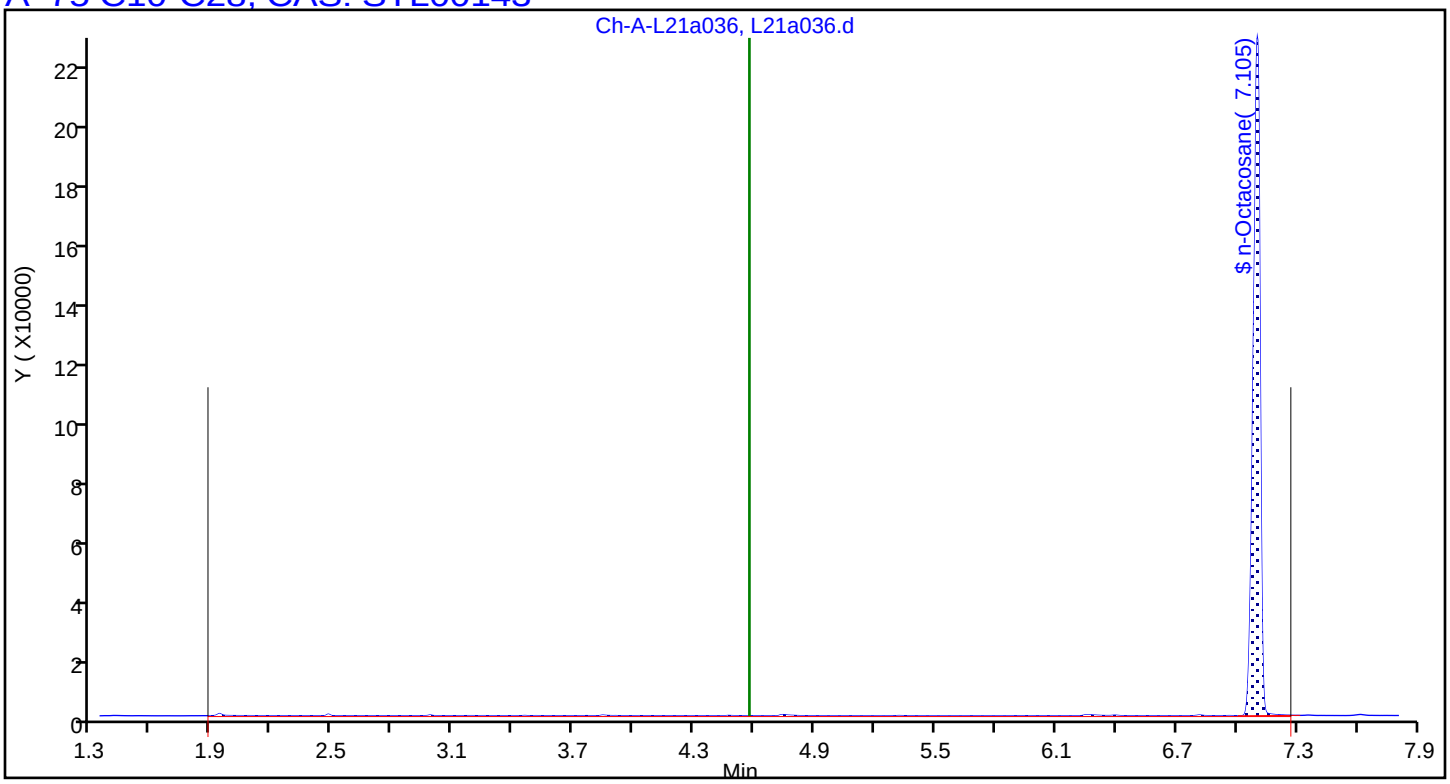
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 28

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



Report Date: 22-Dec-2018 01:00:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a036.d

Injection Date: 21-Dec-2018 20:03:29 Instrument ID: GC69A

Lims ID: MB 440-518633/1-A

Client ID:

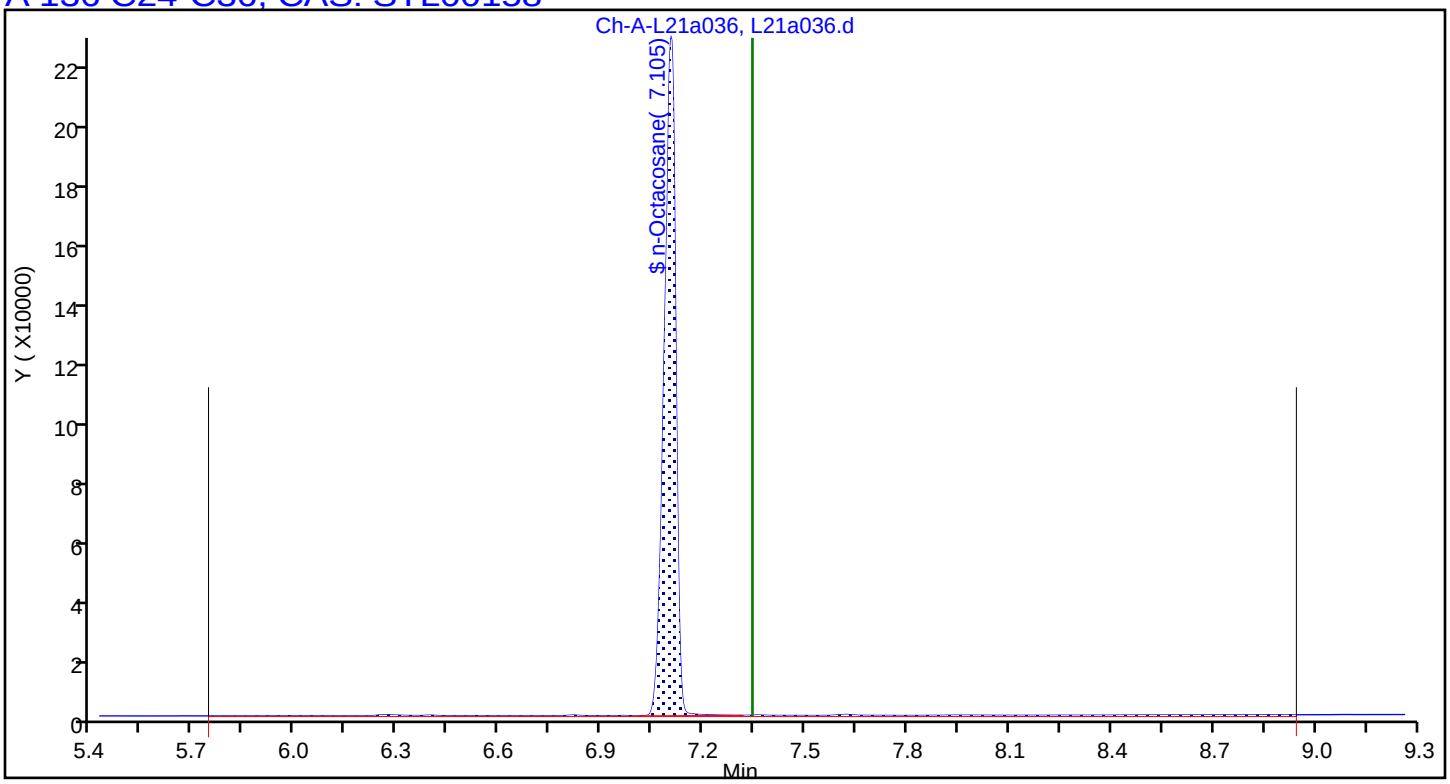
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 28

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 136 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 440-518634/1-A

Matrix: Water | Lab File ID: L21a033.d

Analysis Method: 8015B | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:13

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2018 21:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 518683 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	ND		500	100
STL00158	Motor Oil Range Organics [C24-C36]	ND		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	65		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a033.d
Lims ID: MB 440-518634/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Dec-2018 21:58:44 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 22-Dec-2018 00:22:13 Calib Date: 11-Dec-2018 13:06:44
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0320

First Level Reviewer: barnettl Date: 22-Dec-2018 00:22:13

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 197 C7 Range	0.633	(0.142-1.123)		28586451		7892.2	
A 3 C8 Range	1.338	(1.123-1.553)		9619		2.66	
A 4 C8-C9	1.574	(1.123-2.025)		18192		5.02	
A 7 C8-C10	1.743	(1.123-2.362)		24966		6.89	
A 8 C9 Range	1.789	(1.553-2.025)		8573		2.37	
A 22 C7-C14	1.839	(0.192-3.487)		28626435		7903.2	
A 9 C8-C11	1.907	(1.123-2.690)		31107		8.59	
A 10 C9-C10	1.943	(1.553-2.333)		14880		4.11	
A 12 C10 Range	2.193	(2.025-2.362)		6773		1.87	
A 13 C9-C12	2.263	(1.553-2.973)		25919		7.16	
A 16 C10-C11	2.358	(2.025-2.690)		12914		3.57	
A 17 Mineral Spirits	2.396	(1.553-3.238)		30296		8.36	
A 18 Stoddard Solvent	2.396	(1.553-3.238)		30296		8.36	
A 196 C9-C13	2.396	(1.553-3.238)		5425		1.50	
A 15 C8-C15	2.417	(1.123-3.710)		47061		13.0	
A 20 C10-C12	2.499	(2.025-2.973)		17346		4.79	
A 21 C8-C16	2.512	(1.123-3.900)		49769		13.7	
A 23 C11 Range	2.526	(2.362-2.690)		6141		1.70	
A 24 C11-C12	2.668	(2.362-2.973)		10572		2.92	
A 30 C9-C16	2.727	(1.553-3.900)		40149		11.1	
A 27 C8-C18 DRO	2.819	(1.123-4.515)		59220		16.3	
A 26 Jet Fuel JP-8	2.819	(1.123-4.515)		14043		0	
A 29 C8-C18	2.819	(1.123-4.515)		59220		14.9	
A 192 C12 Range	2.832	(2.690-2.973)		4431		1.22	
A 31 C9 - C17	2.907	(1.553-4.260)		45977		12.7	
A 32 C12-C13	2.964	(2.690-3.238)		8808		2.43	
34 C13	2.997	3.013	-0.016	463		0.1278	
A 33 C9 - C18	3.034	(1.553-4.515)		49601		13.7	
A 35 C12-C14	3.088	(2.690-3.487)		12498		3.45	
A 194 C13 Range	3.106	(2.973-3.238)		4376		1.21	
A 193 C14 Range	3.208	(3.172-3.243)		1079		0.2979	
A 36 C13-C14	3.230	(2.973-3.487)		8066		2.23	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 199 C10-C18	3.270	(2.025-4.515)		41028		NC	
39 n-Tetradecane	3.442	3.288	0.154	1		0.000276	
A 38 C13-C15	3.342	(2.973-3.710)		11522		3.18	
A 37 C8-C22	3.358	(1.123-5.592)		76287		21.1	
A 40 C14-C15	3.474	(3.238-3.710)		7145		1.97	
A 44 C14-C16	3.569	(3.238-3.900)		9853		2.72	
A 43 C8-C24	3.640	(1.123-6.157)		84967		23.5	
A 45 C10-C21	3.668	(2.025-5.312)		53923		14.9	
A 46 C15-C16	3.693	(3.487-3.900)		6163		1.70	
A 47 C10-C22	3.808	(2.025-5.592)		58095		16.0	
A 48 C9-C24	3.855	(1.553-6.157)		75347		20.8	
A 52 C10-C23	3.944	(2.025-5.863)		62019		17.1	
A 53 C11-C22	3.977	(2.362-5.592)		51321		14.2	
A 51 C16-C17	3.985	(3.710-4.260)		8535		2.36	
A 54 C12-C21	4.001	(2.690-5.312)		41009		11.3	
A 55 C9-C25	4.003	(1.553-6.453)		82730		22.8	
A 56 C10-C24	4.091	(2.025-6.157)		66774		18.4	
A 57 C12-C22	4.141	(2.690-5.592)		45180		12.5	
A 59 C8-C28	4.190	(1.123-7.257)		111940		30.9	
A 61 C17-C18	4.208	(3.900-4.515)		9451		2.61	
A 63 C10-C25	4.239	(2.025-6.453)		74157		20.5	
A 62 C15-C20	4.257	(3.487-5.027)		24248		6.69	
A 14 C12-C23	4.277	(2.690-5.863)		49104		13.6	
A 64 C13-C22	4.283	(2.973-5.592)		40748		11.2	
A 66 C13-C23	4.418	(2.973-5.863)		44672		12.3	
A 67 C12-C24	4.423	(2.690-6.157)		53859		14.9	
A 69 C8-C30	4.443	(1.123-7.762)		124295		34.3	
A 68 C18-C19	4.513	(4.260-4.765)		7349		2.03	
71 C19	4.597	4.575	0.022	386		0.1066	
A 72 C10-C28	4.641	(2.025-7.257)		93747		25.9	
A 60 Diesel	4.641	(2.025-7.257)		93747		25.9	
A 75 C7-C36	4.647	(0.142-9.152)		28757470		7939.4	
A 70 C16-C22	4.651	(3.710-5.592)		29226		8.07	
A 73 C8-C32	4.692	(1.123-8.260)		137220		37.9	
A 74 C19-C20	4.771	(4.515-5.027)		8633		2.38	
A 77 C10-C30	4.893	(2.025-7.762)		106102		29.3	
A 78 C8-C34	4.910	(1.123-8.697)		150878		41.7	
A 195 C13-C27	4.976	(2.973-6.978)		68590		18.9	
A 79 C20-C21	5.038	(4.765-5.312)		9170		2.53	
A 81 C13-C28	5.115	(2.973-7.257)		76401		21.1	
A 80 C8-C36	5.138	(1.123-9.152)		171019		47.2	
A 83 C10-C32	5.143	(2.025-8.260)		119027		32.9	
A 85 C21-C22	5.309	(5.027-5.592)		8433		2.33	
A 84 C20-C23	5.314	(4.765-5.863)		17265		4.77	
A 86 C13-C30	5.368	(2.973-7.762)		88756		24.5	
A 88 C22-C23	5.588	(5.312-5.863)		8095		2.23	
A 89 C10-C36	5.588	(2.025-9.152)		152826		42.2	
A 90 C13-C32	5.617	(2.973-8.260)		101681		28.1	
A 92 C8-C40	5.624	(1.123-10.125)		228801		63.2	
A 91 C12-C34	5.693	(2.690-8.697)		119771		33.1	
A 198 C18-C28	5.758	(4.260-7.257)		56343		15.6	
A 96 C9-C40	5.839	(1.553-10.125)		219181		60.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 94 C23-C24	5.874	(5.592-6.157)		8679		2.40	
A 95 C18-C30	6.011	(4.260-7.762)		68698		19.0	
A 99 C13-C36	6.063	(2.973-9.152)		135479		37.4	
A 101 C10-C40	6.075	(2.025-10.125)		210608		58.1	
A 100 C17-C32	6.080	(3.900-8.260)		87451		24.1	
A 98 C24-C25	6.158	(5.863-6.453)		12138		3.35	
102 C25	6.208	6.240	-0.032	703		0.1941	
A 103 C21-C30	6.394	(5.027-7.762)		56440		15.6	
A 104 C24-C27	6.421	(5.863-6.978)		23917		6.60	
A 105 C16-C36	6.431	(3.710-9.152)		123957		34.2	
A 106 C25-C26	6.442	(6.157-6.727)		12311		3.40	
A 107 C20-C32	6.513	(4.765-8.260)		74274		20.5	
A 109 C17-C36	6.526	(3.900-9.152)		121249		33.5	
A 111 C8-C44	6.547	(1.123-11.970)		328764		90.8	
A 112 C13 - C40	6.549	(2.973-10.125)		193261		53.4	
A 113 C13-C40	6.549	(2.973-10.125)		193261		53.4	
A 114 Hydraulic Fluid	6.706	(4.260-9.152)		115422		31.9	
A 108 C18-C36	6.706	(4.260-9.152)		115422		31.9	
A 116 C25-C28	6.707	(6.157-7.257)		26973		7.45	
A 115 C26-C27	6.716	(6.453-6.978)		11779		3.25	
A 117 C22-C32	6.786	(5.312-8.260)		65103		18.0	
118 C27	6.813	6.802	0.011	3925		1.08	
A 121 C16-C40	6.903	(3.710-10.095)		179980		49.7	
A 120 C23-C32	6.926	(5.592-8.260)		60932		16.8	
A 210 C20-C36	6.958	(4.765-9.152)		108072		29.8	
A 122 C27-C28	6.992	(6.727-7.257)		14662		4.05	
A 126 C10-C44	6.998	(2.025-11.970)		310572		85.7	
A 123 C24-C32	7.062	(5.863-8.260)		57008		15.7	
$ 127 n-Octacosane	7.077	7.075	0.002	478597	200.0	130.1	
A 124 C22-C35	7.103	(5.312-8.895)		86653		23.9	
A 125 C23-C34	7.144	(5.592-8.697)		74590		20.6	
A 130 C18-C40	7.193	(4.260-10.125)		173204		47.8	
A 129 C28-C29	7.220	(6.978-7.462)		12530		3.46	
A 128 C23-C35	7.243	(5.592-8.895)		82482		22.8	
A 133 C19-C40	7.320	(4.515-10.125)		169580		46.8	
132 C29	7.347	7.340	0.007	2767		0.7639	
A 131 C23-C36	7.372	(5.592-9.152)		94731		26.2	
A 137 C20-C40	7.445	(4.765-10.125)		165854		45.8	
A 139 C13-C44	7.472	(2.973-11.970)		293225		81.0	
A 136 C28-C31	7.488	(6.978-7.998)		26168		7.22	
A 135 C24-C36	7.508	(5.863-9.152)		90807		25.1	
A 140 C25-C36	7.654	(6.157-9.152)		86052		23.8	
A 142 C30-C31	7.730	(7.462-7.998)		13638		3.77	
145 C31	7.890	7.853	0.037	2079		0.5740	
A 146 C23-C40	7.858	(5.592-10.125)		152513		42.1	
A 144 C17-C44	7.920	(3.900-11.940)		277429		76.6	
A 148 C24-C40	7.994	(5.863-10.125)		148589		41.0	
A 147 C31-C32	8.011	(7.762-8.260)		12925		3.57	
A 200 C28-C36	8.065	(6.978-9.152)		66889		18.5	
A 150 C25-C40	8.141	(6.157-10.125)		143834		39.7	
152 C33	8.353	8.335	0.018	1567		0.4326	
A 153 C32-C35	8.447	(7.998-8.895)		28471		7.86	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 154 C33-C34	8.478	(8.260-8.697)		13658		3.77	
A 156 C32-C36	8.575	(7.998-9.152)		40720		11.2	
A 158 C33-C36	8.706	(8.260-9.152)		33798		9.33	
A 161 C23-C44	8.781	(5.592-11.970)		252477		69.7	
A 162 C24-C44	8.917	(5.863-11.970)		248553		68.6	
A 169 C35-C36	8.924	(8.697-9.152)		20140		5.56	
A 164 C31-C40	8.943	(7.762-10.125)		104505		28.9	
A 166 C33-C40	9.193	(8.260-10.125)		91580		25.3	
A 168 C36-C39	9.376	(8.895-9.857)		54034		14.9	
A 171 C35-C40	9.406	(8.697-10.115)		77337		21.4	
170 C38	9.448	9.447	0.001	3012		0.8316	
A 172 C36-C40	9.510	(8.895-10.125)		70030		19.3	
A 174 C37-C40	9.638	(9.152-10.125)		57782		16.0	
173 C39	9.662	9.698	-0.036	6252		1.73	
A 175 C39-C40	9.838	(9.550-10.125)		34700		9.58	
A 167 C37-C38	9.938	(9.748-10.128)		22717		6.27	
176 C40	9.990	9.993	-0.003	1493		0.4122	
A 134 C33-C44	10.115	(8.260-11.970)		191544		52.9	
A 151 C40-C44	10.913	(9.857-11.970)		115960		32.0	
A 155 C41-C44	11.033	(10.095-11.970)		101722		28.1	
$ 178 n-Triacontane-d62	13.307	13.288	0.019	1476		NC	
S 179 HC Dist (C10-C44)						86.2	
S 182 HC Dist (C8-C44)						91.2	
S 186 HC Dist (C10-C40)						58.1	
S 187 HC Dist (C10-C36)						42.2	
S 188 HC Dist (C13-C44)						77.9	
S 189 HC Dist (C13-C40)						49.8	
S 191 HC Dist (C13-C28)						21.1	
S 190 HC Dist (C8-C40)						63.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

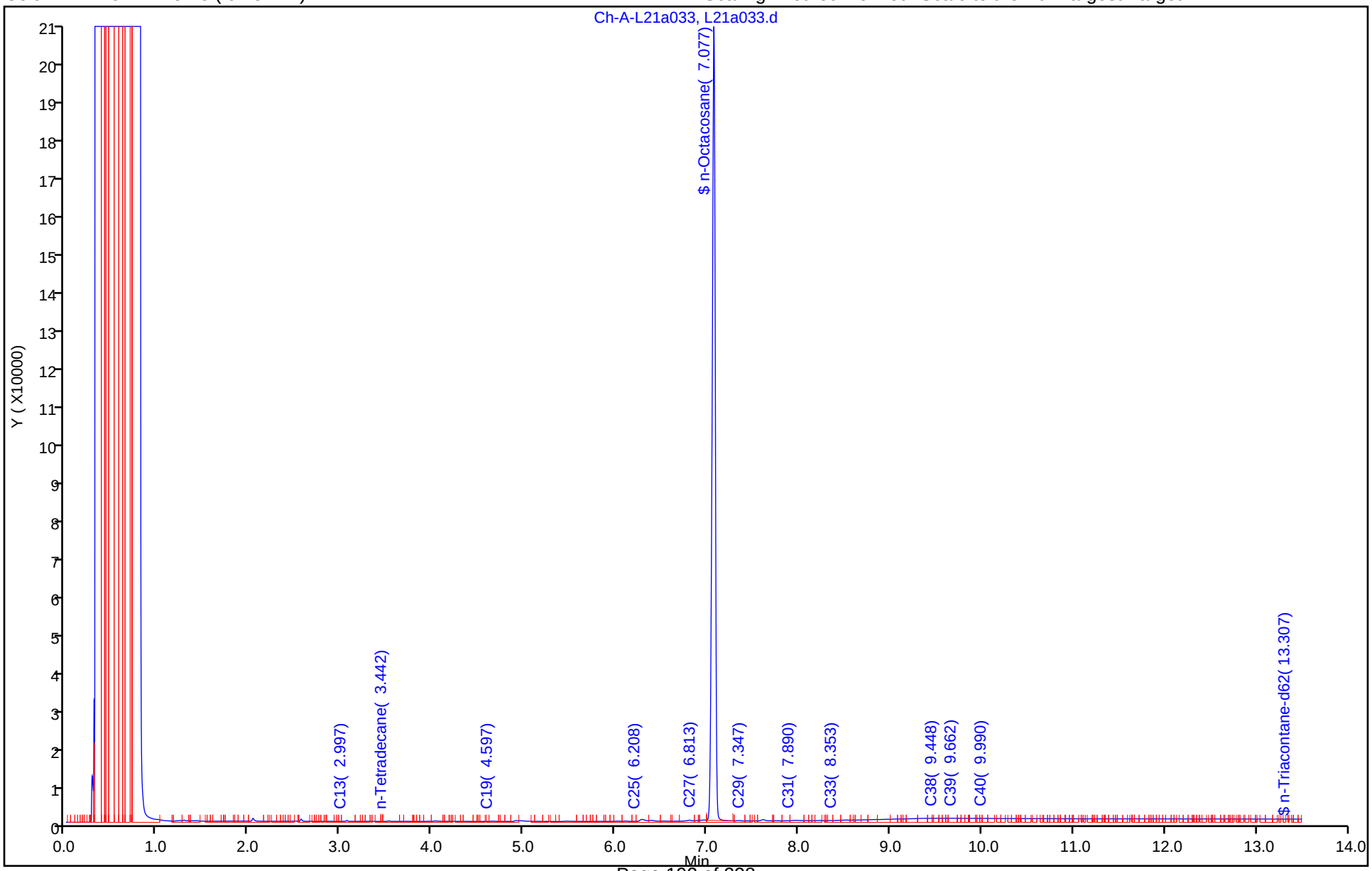
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a033.d

Injection Date:	21-Dec-2018 21:58:44	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	MB 440-518634/1-A			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a033.d				
Lims ID:	MB 440-518634/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	21-Dec-2018 21:58:44	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:22:13	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 22-Dec-2018 00:22:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	130.1	65.05
$ 178 n-Triacontane-d62	0	0	0.00

Report Date: 22-Dec-2018 00:22:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a033.d

Injection Date: 21-Dec-2018 21:58:44 Instrument ID: GC70A

Lims ID: MB 440-518634/1-A

Client ID:

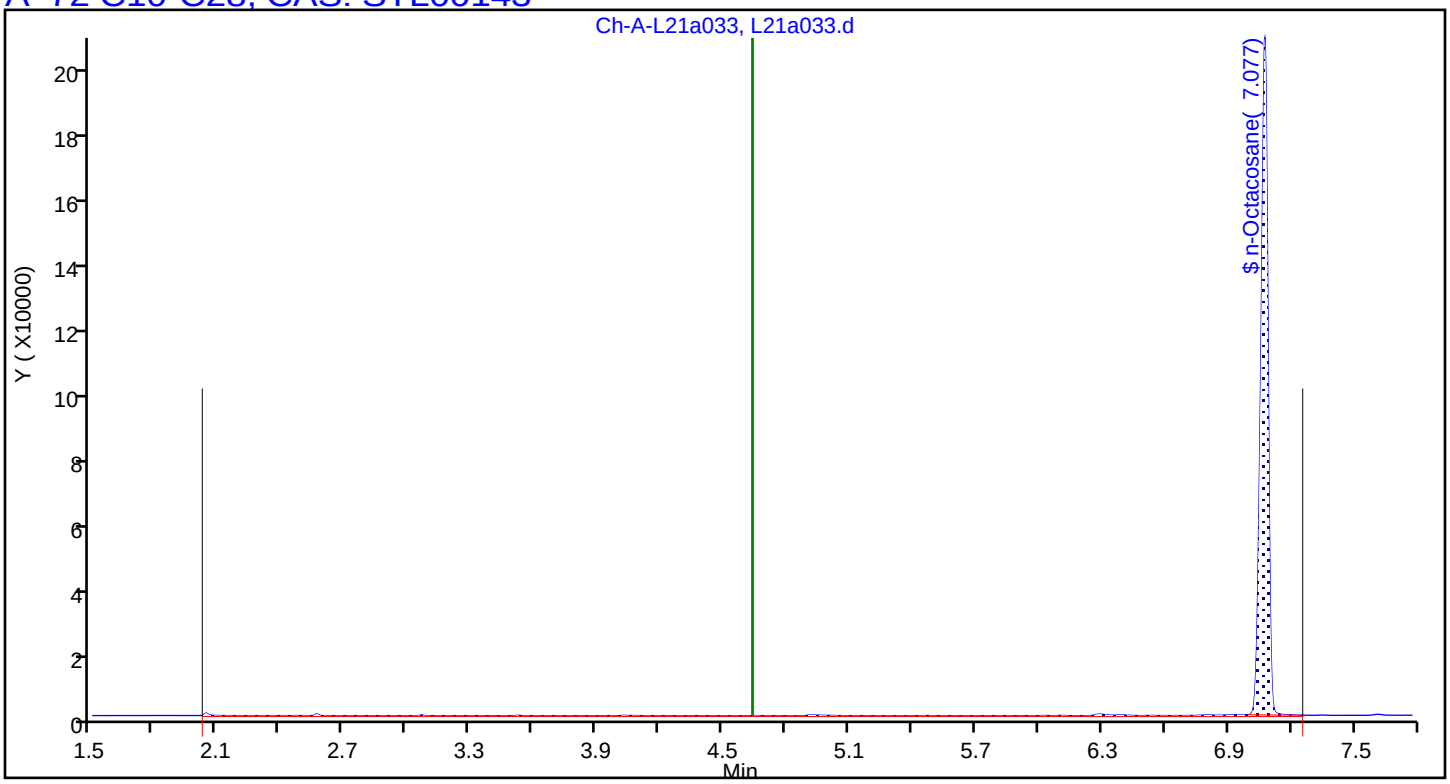
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 33

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_70A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 72 C10-C28, CAS: STL00143



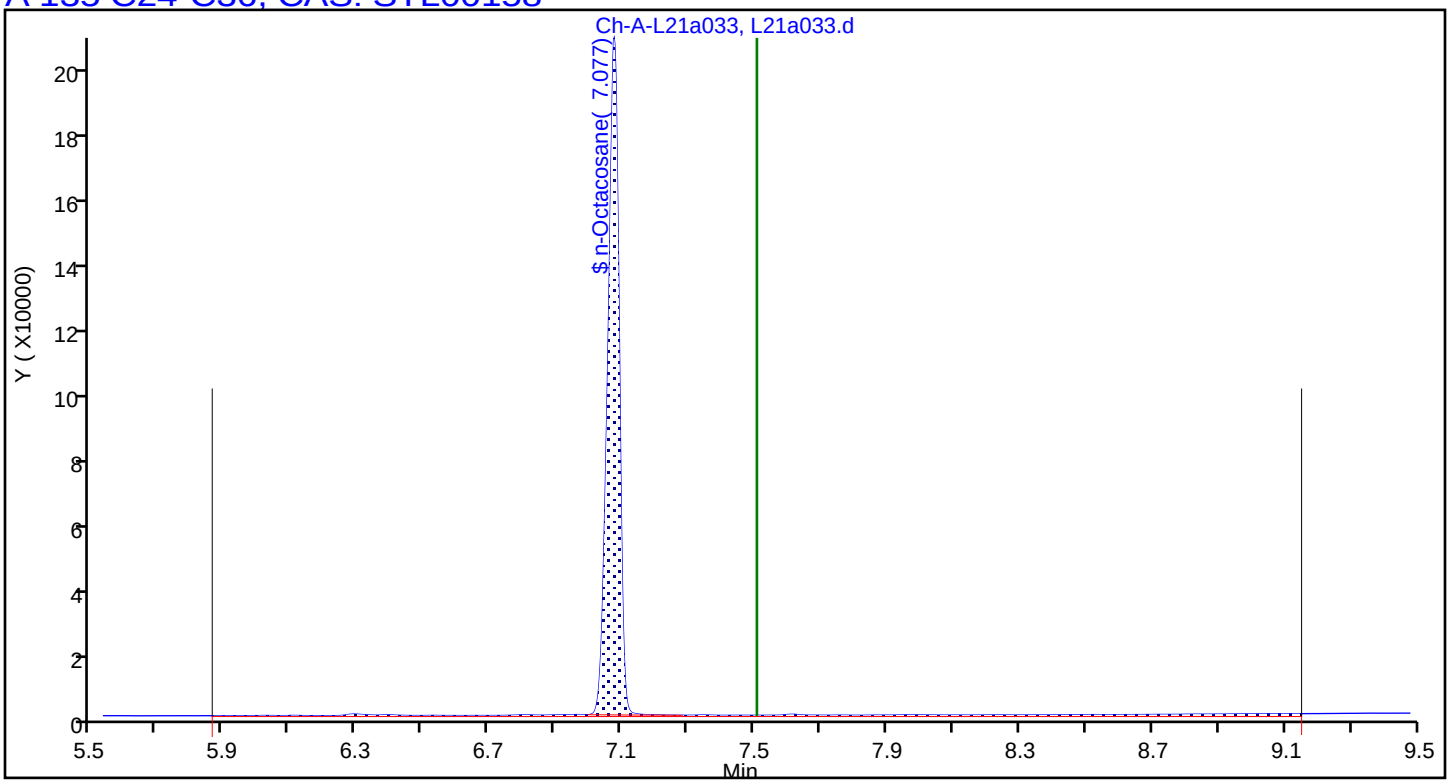
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a033.d

Injection Date:	21-Dec-2018 21:58:44	Instrument ID:	GC70A		
Lims ID:	MB 440-518634/1-A				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 440-518633/2-A

Matrix: Water | Lab File ID: L21a033.d

Analysis Method: 8015B | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:02

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2018 19:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 518682 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	598		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	74		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a033.d				
Lims ID:	LCS 440-518633/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	21-Dec-2018 19:01:31	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:40:28	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	22-Dec-2018 00:59:29		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.575	(1.888-7.272)		1976124	1000.0	598.1	
$ 127 n-Octacosane	7.103	7.103	0.000	484187	200.0	148.6	

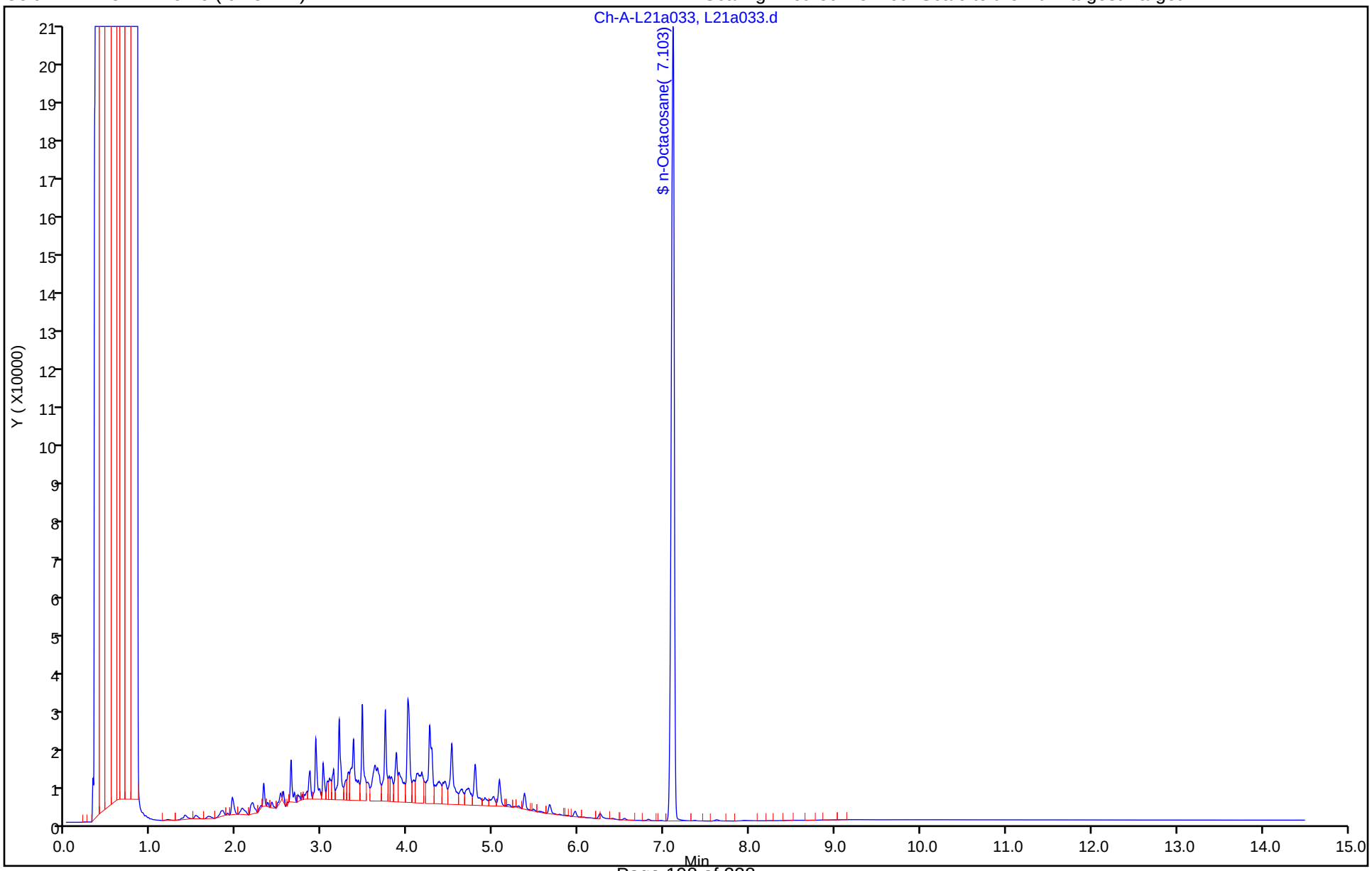
Report Date: 22-Dec-2018 00:59:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a033.d

Injection Date:	21-Dec-2018 19:01:31	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	LCS 440-518633/2-A			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a033.d				
Lims ID:	LCS 440-518633/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	21-Dec-2018 19:01:31	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:40:28	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 22-Dec-2018 00:59:29

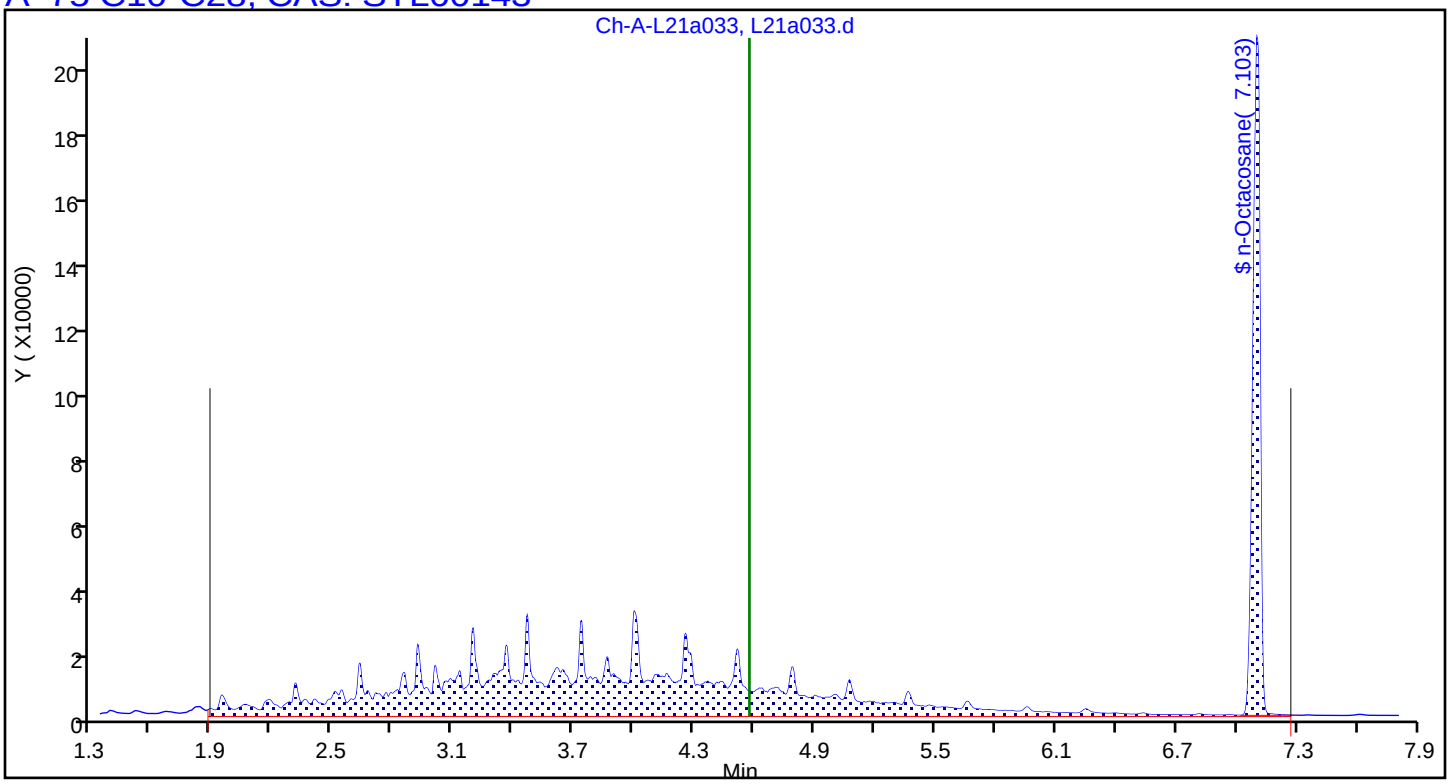
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	148.6	74.31

Report Date: 22-Dec-2018 00:59:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a033.d				
Injection Date:	21-Dec-2018 19:01:31	Instrument ID:	GC69A		
Lims ID:	LCS 440-518633/2-A				
Client ID:					
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 440-518634/2-A

Matrix: Water | Lab File ID: L21a030.d

Analysis Method: 8015B | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:13

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2018 20:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 518683 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	603		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	67		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a030.d				
Lims ID:	LCS 440-518634/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	21-Dec-2018 20:53:30	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:18:55	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	22-Dec-2018 00:21:26		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.641	(2.025-7.257)		2184579	1000.0	603.1	
$ 127 n-Octacosane	7.075	7.075	0.000	493119	200.0	134.0	

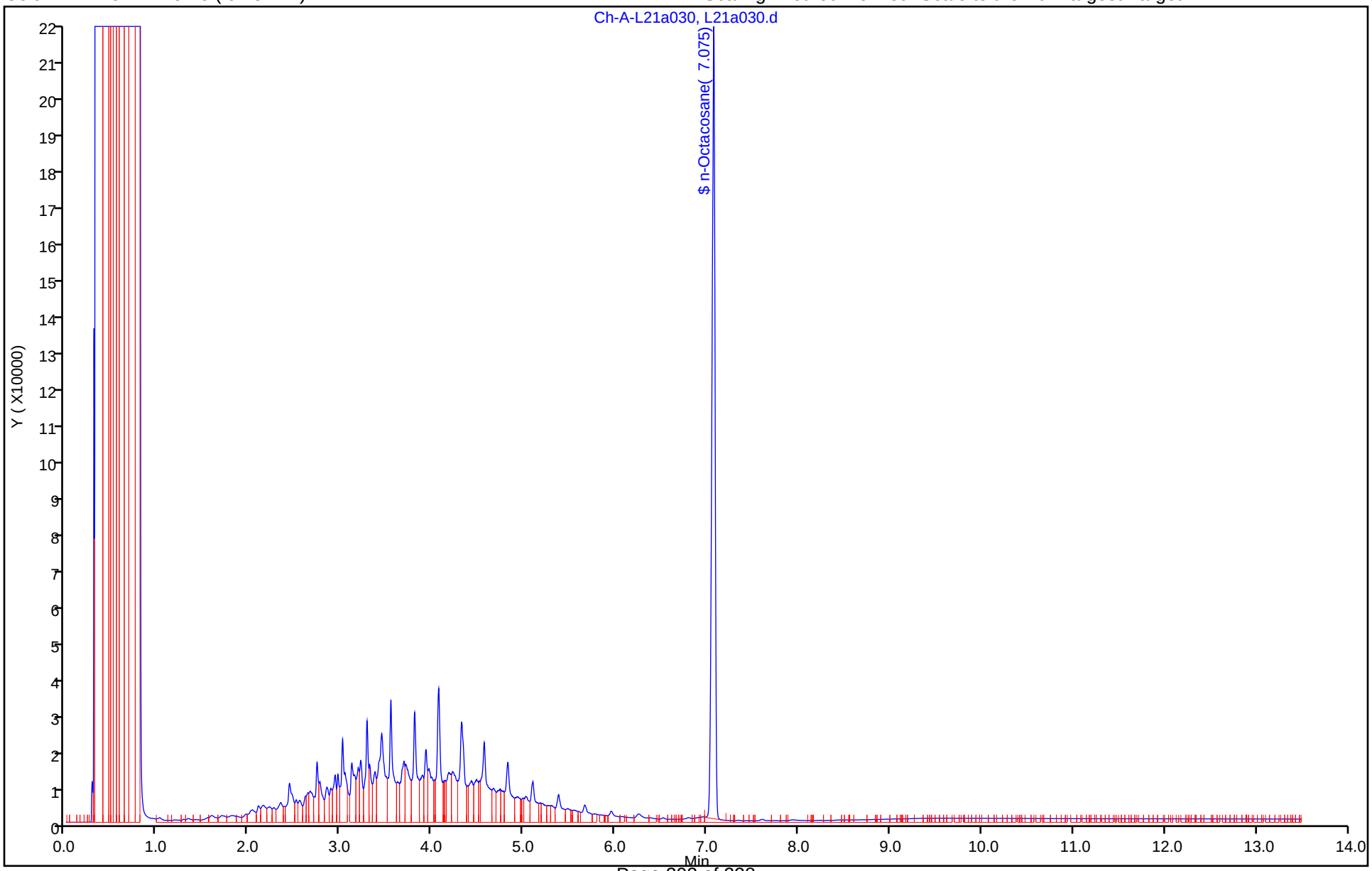
Report Date: 22-Dec-2018 00:21:27 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a030.d

Injection Date:	21-Dec-2018 20:53:30	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	LCS 440-518634/2-A			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a030.d				
Lims ID:	LCS 440-518634/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	21-Dec-2018 20:53:30	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:18:55	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 22-Dec-2018 00:21:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	134.0	67.02

Report Date: 22-Dec-2018 00:21:27 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a030.d

Injection Date: 21-Dec-2018 20:53:30 Instrument ID: GC70A

Lims ID: LCS 440-518634/2-A

Client ID:

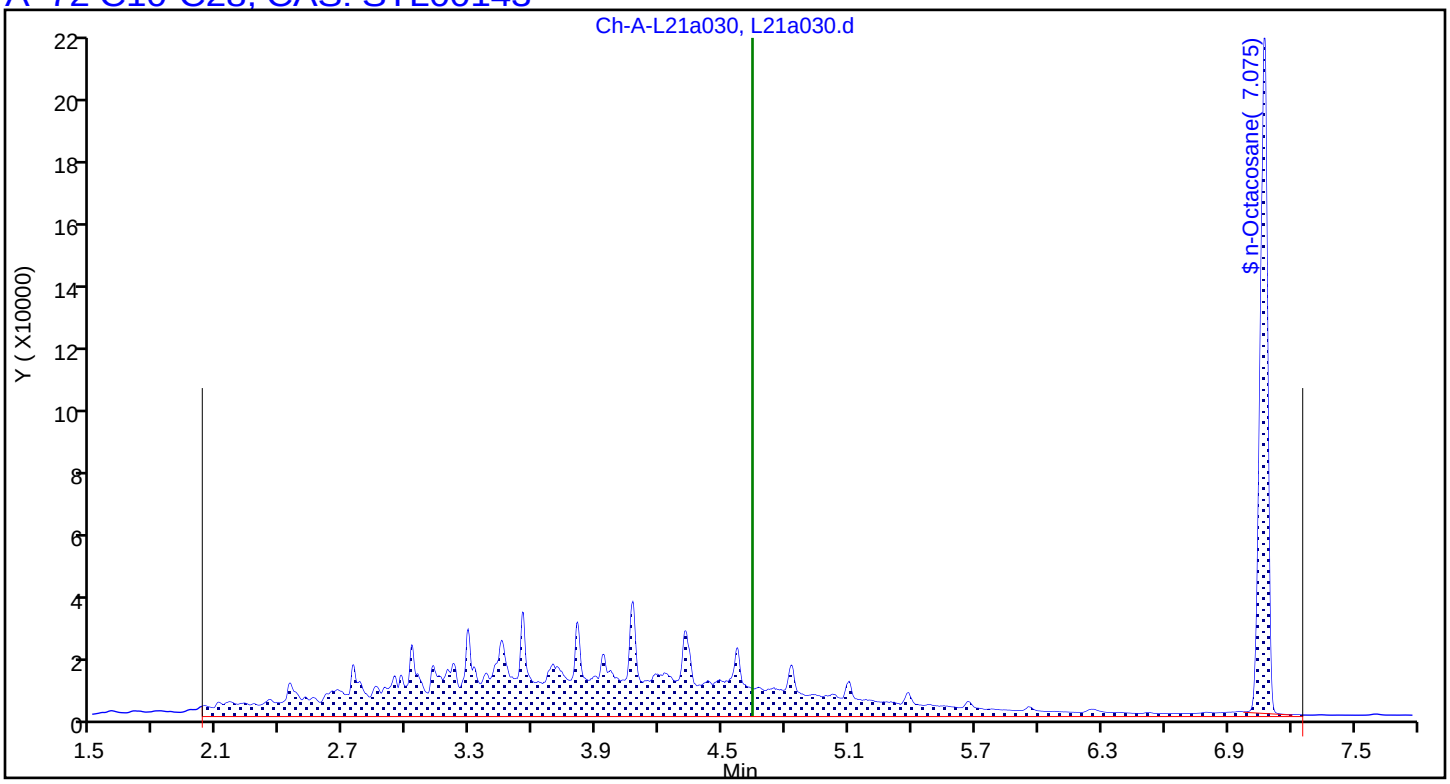
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_70A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 72 C10-C28, CAS: STL00143



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 440-518633/3-A

Matrix: Water | Lab File ID: L21a034.d

Analysis Method: 8015B | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:02

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2018 19:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 518682 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	656		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	77		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a034.d				
Lims ID:	LCSD 440-518633/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	21-Dec-2018 19:22:09	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:40:28	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	22-Dec-2018 00:59:38		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.575	(1.888-7.272)		2166536	1000.0	655.8	
$ 127 n-Octacosane	7.103	7.103	0.000	503606	200.0	154.6	

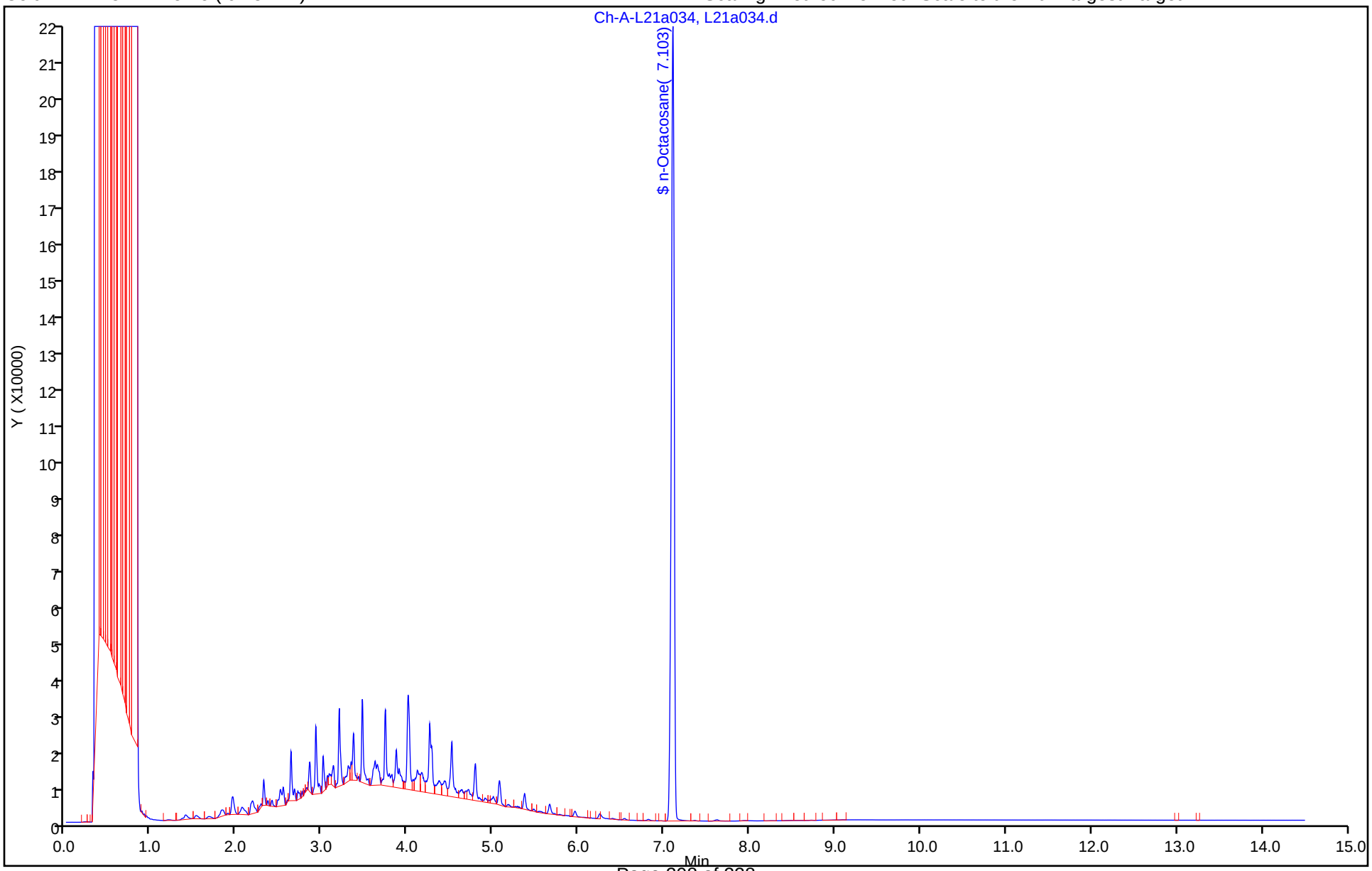
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a034.d

Injection Date:	21-Dec-2018 19:22:09	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	LCSD 440-518633/3-A			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a034.d				
Lims ID:	LCSD 440-518633/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	21-Dec-2018 19:22:09	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:40:28	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	22-Dec-2018 00:59:38		

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	154.6	77.29

Report Date: 22-Dec-2018 00:59:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a034.d

Injection Date: 21-Dec-2018 19:22:09 Instrument ID: GC69A

Lims ID: LCSD 440-518633/3-A

Client ID:

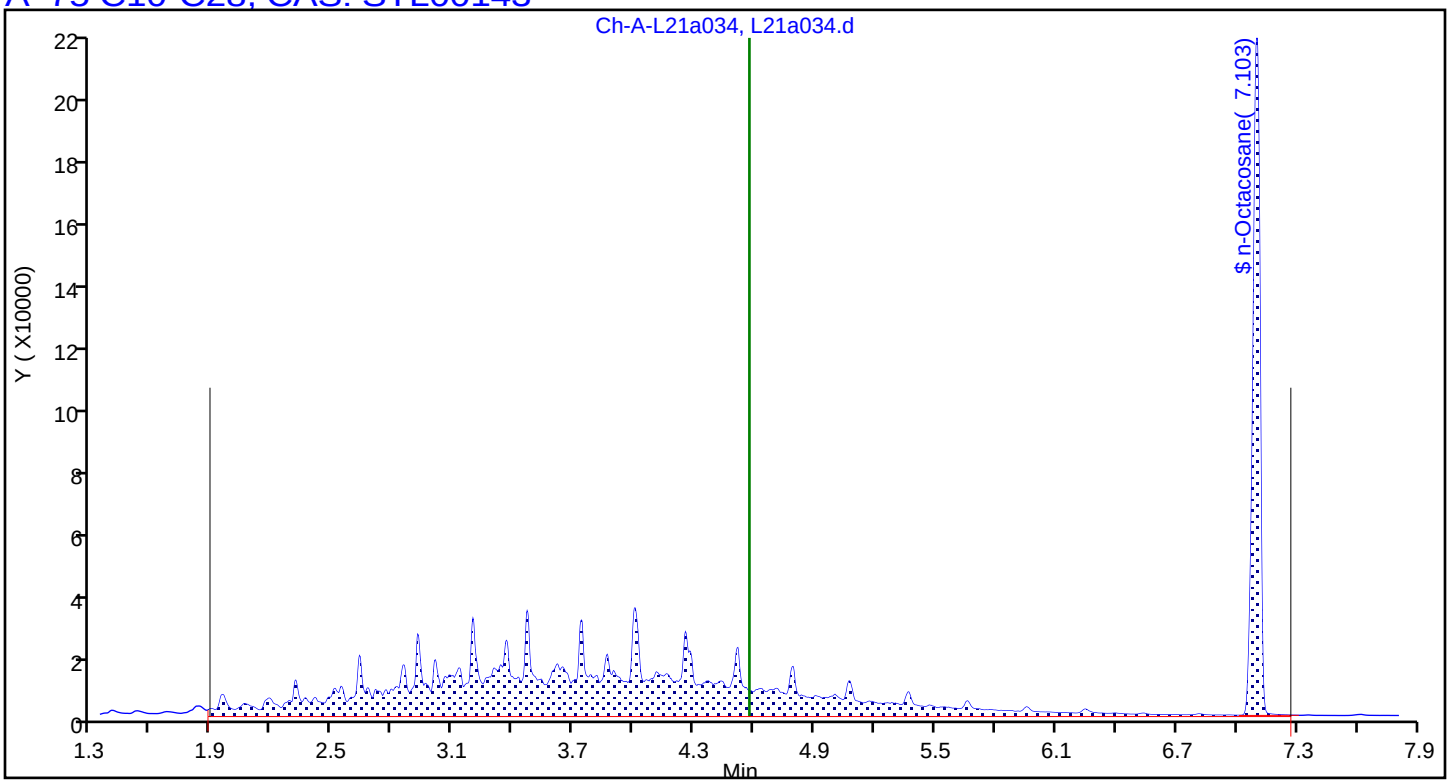
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_69A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 75 C10-C28, CAS: STL00143



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 720-90410-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 440-518634/3-A

Matrix: Water | Lab File ID: L21a031.d

Analysis Method: 8015B | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/21/2018 06:13

Sample wt/vol: 1000(mL) | Date Analyzed: 12/21/2018 21:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5HT Inferno ID: 0.25(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 518683 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	743		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
630-02-4	n-Octacosane	80		45-120

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a031.d				
Lims ID:	LCSD 440-518634/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	21-Dec-2018 21:15:11	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:18:55	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	22-Dec-2018 00:21:35		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.641	(2.025-7.257)		2691000	1000.0	742.9	
$ 127 n-Octacosane	7.080	7.075	0.005	588518	200.0	160.0	

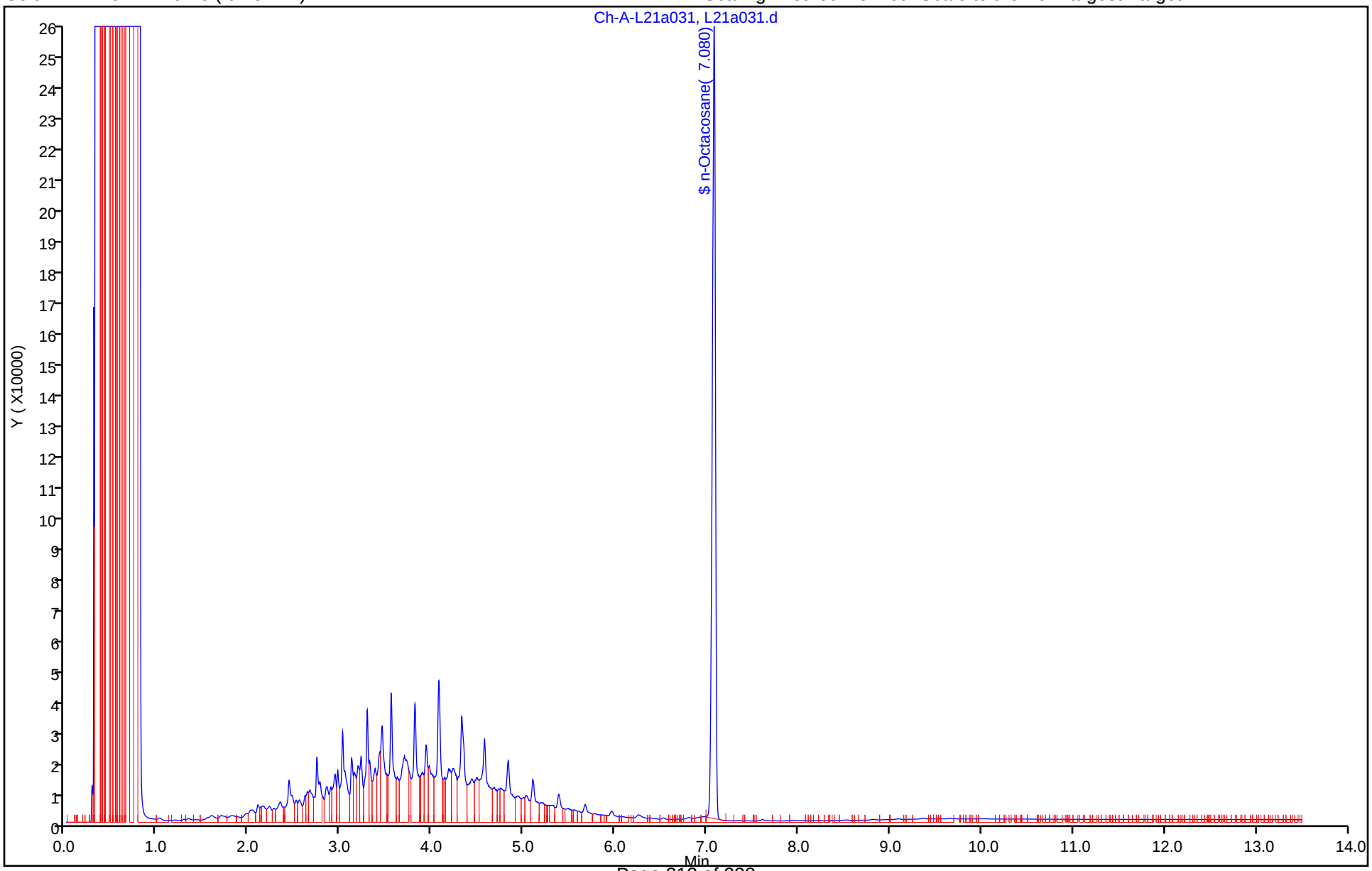
Report Date: 22-Dec-2018 00:21:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a031.d

Injection Date:	21-Dec-2018 21:15:11	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	LCSD 440-518634/3-A			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a031.d				
Lims ID:	LCSD 440-518634/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	21-Dec-2018 21:15:11	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20181221-113404.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	22-Dec-2018 00:18:55	Calib Date:	11-Dec-2018 13:06:44		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181211-112944.b\L11a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	22-Dec-2018 00:21:35		

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	160.0	79.99

Report Date: 22-Dec-2018 00:21:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20181221-113404.b\L21a031.d

Injection Date: 21-Dec-2018 21:15:11 Instrument ID: GC70A

Lims ID: LCSD 440-518634/3-A

Client ID:

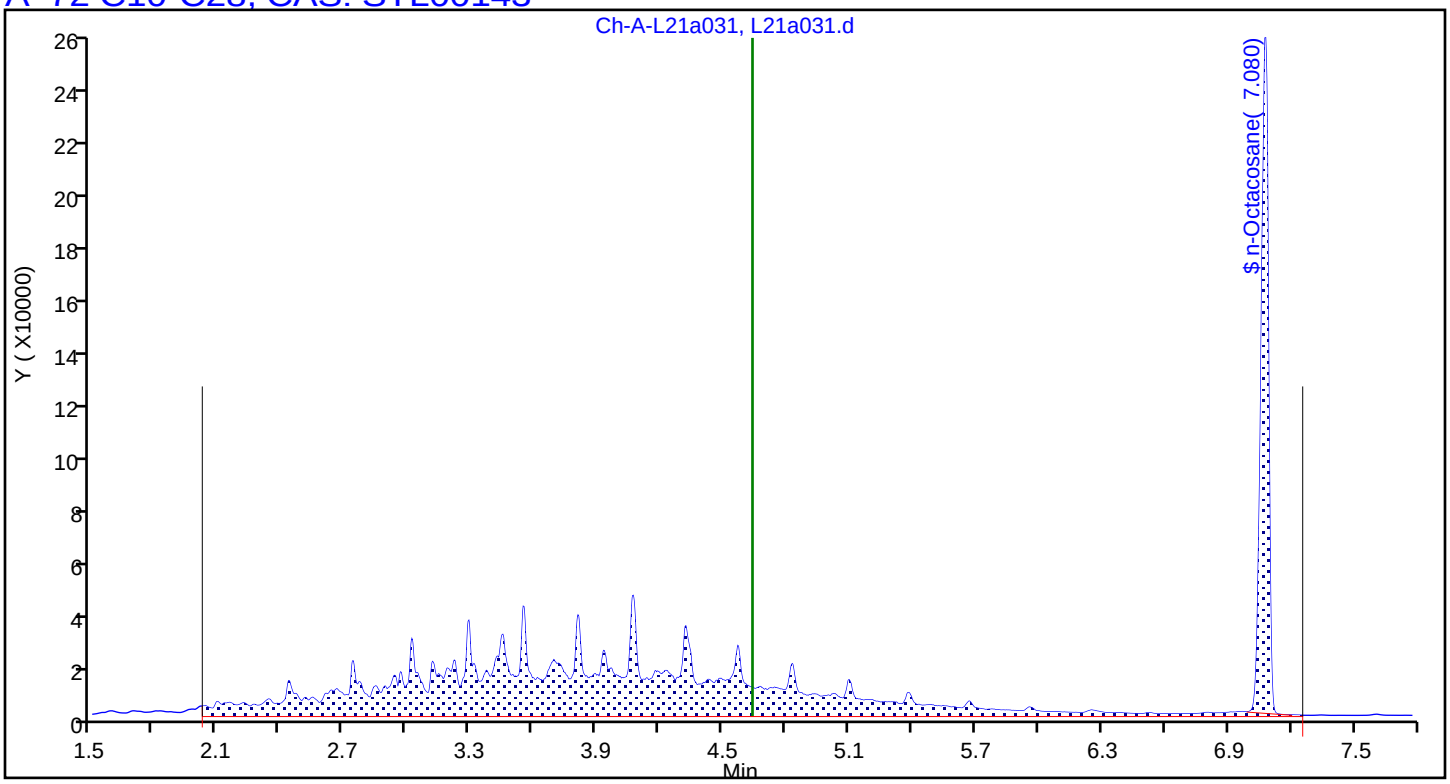
Operator ID: IRVINSTSVOA1 ALS Bottle#: 0 Worklist Smp#: 31

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8015DRO_70A Limit Group: GC-8015DRO

Column: ZB-5HT Inferno (0.25 mm) Detector Ch-A-H24a007-20110825-175217

A 72 C10-C28, CAS: STL00143



DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Instrument ID: GC70A Start Date: 04/10/2018 17:14

Analysis Batch Number: 469391 End Date: 04/11/2018 10:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RINSE 440-469391/1		04/10/2018 17:14	1		ZB-5HT Inferno 0.25(mm)
RTC 440-469391/3		04/10/2018 17:57	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-469391/4		04/10/2018 20:25	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-469391/5		04/10/2018 20:47	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-469391/6		04/10/2018 21:08	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-469391/7		04/10/2018 21:29	1		ZB-5HT Inferno 0.25(mm)
STD50PPM 440-469391/8 IC		04/10/2018 21:51	1	D10a008.d	ZB-5HT Inferno 0.25(mm)
STD100PPM 440-469391/9 IC		04/10/2018 22:12	1	D10a009.d	ZB-5HT Inferno 0.25(mm)
STD750PPM 440-469391/10 ICRT		04/10/2018 22:34	1	D10a010.d	ZB-5HT Inferno 0.25(mm)
STD2000PPM 440-469391/11 IC		04/10/2018 22:55	1	D10a011.d	ZB-5HT Inferno 0.25(mm)
STD6000PPM 440-469391/12 IC		04/10/2018 23:16	1	D10a012.d	ZB-5HT Inferno 0.25(mm)
STD8000PPM 440-469391/13 IC		04/10/2018 23:38	1	D10a013.d	ZB-5HT Inferno 0.25(mm)
RINSE 440-469391/14		04/10/2018 23:59	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-469391/35		04/11/2018 00:21	1		ZB-5HT Inferno 0.25(mm)
ICV 440-469391/15		04/11/2018 00:42	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-469391/16		04/11/2018 01:03	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 01:25	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 01:46	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 02:07	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 02:29	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 02:50	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 03:12	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 03:33	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-469391/24		04/11/2018 03:54	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 04:16	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 04:37	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 04:58	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 05:19	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 05:41	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 06:02	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 07:24	20		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 07:45	10		ZB-5HT Inferno 0.25(mm)
CCV 440-469391/34		04/11/2018 08:06	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 09:08	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		04/11/2018 10:12	1		ZB-5HT Inferno 0.25(mm)
CCV 440-469391/40		04/11/2018 10:33	1		ZB-5HT Inferno 0.25(mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Instrument ID: GC69A Start Date: 09/26/2018 00:20

Analysis Batch Number: 501116 End Date: 09/26/2018 16:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 440-501116/1		09/26/2018 00:20	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-501116/2		09/26/2018 00:41	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-501116/3		09/26/2018 01:02	1		ZB-5HT Inferno 0.25(mm)
STD50PPM 440-501116/4 IC		09/26/2018 01:22	1	I24a083.d	ZB-5HT Inferno 0.25(mm)
STD100PPM 440-501116/5 IC		09/26/2018 01:42	1	I24a084.d	ZB-5HT Inferno 0.25(mm)
ICRT 440-501116/6		09/26/2018 02:03	1	I24a085.d	ZB-5HT Inferno 0.25(mm)
STD2KPPM 440-501116/7 IC		09/26/2018 02:23	1	I24a086.d	ZB-5HT Inferno 0.25(mm)
STD6KPPM 440-501116/8 IC		09/26/2018 02:44	1	I24a087.d	ZB-5HT Inferno 0.25(mm)
STD8KPPM 440-501116/9 IC		09/26/2018 03:05	1	I24a088.d	ZB-5HT Inferno 0.25(mm)
RINSE 440-501116/10		09/26/2018 03:25	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-501116/11		09/26/2018 03:46	1		ZB-5HT Inferno 0.25(mm)
ICV 440-501116/12		09/26/2018 04:07	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-501116/13		09/26/2018 04:27	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 04:48	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 05:08	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 05:29	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 05:50	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 06:10	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 06:31	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 06:52	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 07:12	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 07:33	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 07:54	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 08:14	1		ZB-5HT Inferno 0.25(mm)
CCV 440-501116/64		09/26/2018 08:35	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 12:35	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 12:55	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 13:16	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 13:37	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 13:57	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 14:18	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 14:39	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 14:59	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 15:20	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 15:41	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 16:01	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		09/26/2018 16:22	1		ZB-5HT Inferno 0.25(mm)
CCV 440-501116/77		09/26/2018 16:43	1		ZB-5HT Inferno 0.25(mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Instrument ID: GC69A Start Date: 12/21/2018 11:08

Analysis Batch Number: 518682 End Date: 12/22/2018 01:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 440-518682/2		12/21/2018 11:08	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-518682/3		12/21/2018 11:29	1		ZB-5HT Inferno 0.25(mm)
CCVRT 440-518682/4		12/21/2018 11:50	1	L21a012.d	ZB-5HT Inferno 0.25(mm)
STD100PPM 440-518682/5 IC		12/21/2018 12:10	1	L21a013.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 12:31	10		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 12:51	10		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 13:12	10		ZB-5HT Inferno 0.25(mm)
RINSE 440-518682/9		12/21/2018 13:32	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-518682/10		12/21/2018 13:53	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 14:13	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 14:34	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 15:15	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 15:36	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 15:56	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 16:16	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 16:37	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-518682/19		12/21/2018 16:57	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-518682/20		12/21/2018 17:18	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 17:39	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 17:59	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 18:20	1		ZB-5HT Inferno 0.25(mm)
CCV 440-518682/24		12/21/2018 18:40	1	L21a032.d	ZB-5HT Inferno 0.25(mm)
LCS 440-518633/2-A		12/21/2018 19:01	1	L21a033.d	ZB-5HT Inferno 0.25(mm)
LCSD 440-518633/3-A		12/21/2018 19:22	1	L21a034.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 19:42	1		ZB-5HT Inferno 0.25(mm)
MB 440-518633/1-A		12/21/2018 20:03	1	L21a036.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 20:24	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 20:44	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-518682/31		12/21/2018 21:05	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 21:25	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 21:46	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 22:06	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 22:27	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 22:47	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 23:08	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 23:28	1		ZB-5HT Inferno 0.25(mm)
CCV 440-518682/39		12/21/2018 23:49	1	L21a047.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/22/2018 00:50	1		ZB-5HT Inferno 0.25(mm)
CCV 440-518682/41		12/22/2018 01:11	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/22/2018 01:31	1		ZB-5HT Inferno 0.25(mm)
CCV 440-518682/43		12/22/2018 01:52	1		ZB-5HT Inferno 0.25(mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Instrument ID: GC70A Start Date: 12/21/2018 08:58

Analysis Batch Number: 518683 End Date: 12/21/2018 23:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 440-518683/3		12/21/2018 08:58	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-518683/4		12/21/2018 09:29	1		ZB-5HT Inferno 0.25(mm)
CCVRT 440-518683/5		12/21/2018 09:51	1	L21a005.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 10:12	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 10:34	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 10:56	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 11:18	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 11:39	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 12:01	10		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 12:23	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 12:45	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 13:07	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-518683/15		12/21/2018 13:29	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 13:50	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 14:12	1		ZB-5HT Inferno 0.25(mm)
CCV 440-518683/18		12/21/2018 14:34	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 14:56	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 15:18	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 15:40	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 16:02	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 16:24	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 16:46	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 18:23	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 18:44	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 19:25	5		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 19:46	1		ZB-5HT Inferno 0.25(mm)
CCV 440-518683/29		12/21/2018 20:32	1	L21a029.d	ZB-5HT Inferno 0.25(mm)
LCS 440-518634/2-A		12/21/2018 20:53	1	L21a030.d	ZB-5HT Inferno 0.25(mm)
LCSD 440-518634/3-A		12/21/2018 21:15	1	L21a031.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 21:36	1		ZB-5HT Inferno 0.25(mm)
MB 440-518634/1-A		12/21/2018 21:58	1	L21a033.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 22:20	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 22:41	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/21/2018 23:03	10		ZB-5HT Inferno 0.25(mm)
CCV 440-518683/37		12/21/2018 23:46	1	L21a037.d	ZB-5HT Inferno 0.25(mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Instrument ID: GC70A Start Date: 12/27/2018 08:49

Analysis Batch Number: 519500 End Date: 12/27/2018 14:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 440-519500/3		12/27/2018 08:49	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-519500/4		12/27/2018 09:10	1		ZB-5HT Inferno 0.25(mm)
CCVRT 440-519500/5		12/27/2018 09:32	1	L27a005.d	ZB-5HT Inferno 0.25(mm)
720-90410-9		12/27/2018 10:08	1	L27a006.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/27/2018 10:29	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/27/2018 10:51	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/27/2018 11:13	10		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/27/2018 11:35	25		ZB-5HT Inferno 0.25(mm)
720-90410-5		12/27/2018 11:57	1	L27a011.d	ZB-5HT Inferno 0.25(mm)
720-90410-6		12/27/2018 12:19	1	L27a012.d	ZB-5HT Inferno 0.25(mm)
720-90410-8		12/27/2018 12:41	1	L27a013.d	ZB-5HT Inferno 0.25(mm)
RINSE 440-519500/14		12/27/2018 13:03	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/27/2018 13:25	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/27/2018 13:47	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/27/2018 14:08	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/27/2018 14:30	1		ZB-5HT Inferno 0.25(mm)
CCV 440-519500/19		12/27/2018 14:52	1	L27a019.d	ZB-5HT Inferno 0.25(mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Instrument ID: GC69A Start Date: 12/28/2018 08:36

Analysis Batch Number: 519777 End Date: 12/29/2018 05:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 440-519777/3		12/28/2018 08:36	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-519777/4		12/28/2018 08:57	1		ZB-5HT Inferno 0.25(mm)
CCVRT 440-519777/5		12/28/2018 09:17	1	L28a005.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 09:37	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 09:58	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 10:18	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 10:39	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 10:59	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 11:19	50		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 11:39	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 12:20	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 14:14	1		ZB-5HT Inferno 0.25(mm)
CCV 440-519777/16		12/28/2018 14:34	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 14:54	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 15:15	1		ZB-5HT Inferno 0.25(mm)
CCV 440-519777/19		12/28/2018 15:35	1	L28a019.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 15:56	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 16:16	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 16:36	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 16:56	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 17:17	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 17:37	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 17:58	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 18:18	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 18:38	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-519777/29		12/28/2018 18:58	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-519777/30		12/28/2018 19:19	1		ZB-5HT Inferno 0.25(mm)
720-90410-1		12/28/2018 19:39	1	L28a031.d	ZB-5HT Inferno 0.25(mm)
720-90410-2		12/28/2018 20:00	1	L28a032.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 20:20	1		ZB-5HT Inferno 0.25(mm)
CCV 440-519777/34		12/28/2018 20:41	1	L28a034.d	ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 21:01	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 21:22	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 21:42	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 22:02	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 22:23	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 22:43	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 23:03	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/28/2018 23:24	1		ZB-5HT Inferno 0.25(mm)
720-90410-3		12/28/2018 23:44	1	L28a043.d	ZB-5HT Inferno 0.25(mm)
720-90410-4		12/29/2018 00:04	1	L28a044.d	ZB-5HT Inferno 0.25(mm)
RINSE 440-519777/45		12/29/2018 00:24	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 00:45	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 01:05	1		ZB-5HT Inferno 0.25(mm)
CCV 440-519777/48		12/29/2018 01:25	1	L28a048.d	ZB-5HT Inferno 0.25(mm)

8015B

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Instrument ID: GC69A Start Date: 12/28/2018 08:36

Analysis Batch Number: 519777 End Date: 12/29/2018 05:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/29/2018 01:46	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 02:06	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 02:26	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 02:47	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 03:07	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 03:27	1		ZB-5HT Inferno 0.25(mm)
RINSE 440-519777/55		12/29/2018 03:47	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 04:08	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 04:28	1		ZB-5HT Inferno 0.25(mm)
ZZZZZ		12/29/2018 04:48	1		ZB-5HT Inferno 0.25(mm)
CCV 440-519777/59		12/29/2018 05:08	1		ZB-5HT Inferno 0.25(mm)

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Batch Number: 518633 Batch Start Date: 12/21/18 06:02 Batch Analyst: Herrera, Lizette 1

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	gc8015dslLCSA 00111
MB 440-518633/1		3510C, 8015B				1000 mL	1 mL	6 SU	
LCS 440-518633/2		3510C, 8015B				1000 mL	1 mL	6 SU	1 mL
LCSD 440-518633/3		3510C, 8015B				1000 mL	1 mL	6 SU	1 mL
720-90410-H-1	DG-N1W	3510C, 8015B	T	1560 g	0515 g	1045 mL	1 mL	6 SU	
720-90410-D-2	DG-O3W	3510C, 8015B	T	1405 g	0515 g	890 mL	1 mL	6 SU	
720-90410-E-3	DG-S3W	3510C, 8015B	T	1545 g	0525 g	1020 mL	1 mL	6 SU	
720-90410-G-4	DG-U3W	3510C, 8015B	T	1555 g	0520 g	1035 mL	2 mL	6 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	gc8015dslSURR 00090	AnalysisComment				
MB 440-518633/1		3510C, 8015B		0.2 mL					
LCS 440-518633/2		3510C, 8015B		0.2 mL					
LCSD 440-518633/3		3510C, 8015B		0.2 mL					
720-90410-H-1	DG-N1W	3510C, 8015B	T	0.2 mL	Brown with heavy sediment and emulsion				
720-90410-D-2	DG-O3W	3510C, 8015B	T	0.2 mL	Brown with heavy sediment and emulsion				
720-90410-E-3	DG-S3W	3510C, 8015B	T	0.2 mL	Brown with heavy sediment and emulsion Used centrifuge to help separate				
720-90410-G-4	DG-U3W	3510C, 8015B	T	0.2 mL	Brown with heavy sediment and emulsion Used centrifuge to help separate				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Batch Number: 518633 Batch Start Date: 12/21/18 06:02 Batch Analyst: Herrera, Lizette 1

Batch Method: 3510C Batch End Date:

Batch Notes	
Balance ID	68
Batch Comment	3510C_IVWT 8015B DRO
Analyst ID - Concentration	LH / HK
Concentration 1 Corrected Temperature	35 Degrees C
Equipment ID - Concentration 1	VAP 02, 12, 08
Analyst ID - Extraction	LH
Filter ID	Sartorius 18-110
Method/Fraction	3510C_IVWT 8015B DRO
Na2SO4 ID	Na2SO4 (5216541)
pH Indicator ID	HC746336
Pipette/Syringe/Dispenser ID	9" Disposable/Hamilton 1.0 mL (0214181000B), Hamilton0.50 mL (062618500A)
Prep Solvent ID	MeCl2 (5235266)
Prep Solvent Volume Used	100 mL
Analyst ID - Spike Analyst	LH
Concentration 1 Uncorrected Temperature	35 Degrees C
Vial Lot Number	C4000-1W (18226701)
Reagent Water ID	ULTRA PURE

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Batch Number: 518634 Batch Start Date: 12/21/18 06:12 Batch Analyst: Herrera, Lizette 1

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	gc8015dslLCSA 00111
MB 440-518634/1		3510C, 8015B				1000 mL	1 mL	6 SU	
LCS 440-518634/2		3510C, 8015B				1000 mL	1 mL	6 SU	1 mL
LCSD 440-518634/3		3510C, 8015B				1000 mL	1 mL	6 SU	1 mL
720-90410-G-5	DG-W3W	3510C, 8015B	T	1545 g	0555 g	990 mL	1 mL	6 SU	
720-90410-G-6	DG-Y3W	3510C, 8015B	T	1505 g	0555 g	950 mL	1 mL	6 SU	
720-90410-F-8	DG-AA3W	3510C, 8015B	T	1450 g	0560 g	890 mL	1 mL	6 SU	
720-90410-F-9	DUP-15	3510C, 8015B	T	1480 g	0560 g	920 mL	2 mL	6 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	gc8015dslSURR 00090	AnalysisComment				
MB 440-518634/1		3510C, 8015B		0.2 mL					
LCS 440-518634/2		3510C, 8015B		0.2 mL					
LCSD 440-518634/3		3510C, 8015B		0.2 mL					
720-90410-G-5	DG-W3W	3510C, 8015B	T	0.2 mL	Olive cloudy minor leak and heavy emulsion				
720-90410-G-6	DG-Y3W	3510C, 8015B	T	0.2 mL	Olive cloudy and heavy emulsion				
720-90410-F-8	DG-AA3W	3510C, 8015B	T	0.2 mL	Brown with emulsion				
720-90410-F-9	DUP-15	3510C, 8015B	T	0.2 mL	Brown with emulsion				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 720-90410-1

SDG No.:

Batch Number: 518634 Batch Start Date: 12/21/18 06:12 Batch Analyst: Herrera, Lizette 1

Batch Method: 3510C Batch End Date:

Batch Notes	
Balance ID	68
Batch Comment	3510C_IVWT 8015B DRO
Analyst ID - Concentration	LH / HK
Concentration 1 Corrected Temperature	35 Degrees C
Equipment ID - Concentration 1	VAP 02, 12, 08
Analyst ID - Extraction	LH
Filter ID	Sartorius 18-110
Method/Fraction	3510C_IVWT 8015B DRO
Na2SO4 ID	Na2SO4 (5216541)
pH Indicator ID	HC746336
Pipette/Syringe/Dispenser ID	9" Disposable/Hamilton 1.0 mL (0214181000B), Hamilton0.50 mL (062618500A)
Prep Solvent ID	MeCl2 (5235266)
Prep Solvent Volume Used	100 mL
Analyst ID - Spike Analyst	LH
Concentration 1 Uncorrected Temperature	35 Degrees C
Vial Lot Number	C4000-1W (18226701)
Reagent Water ID	ULTRA PURE

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

720-90410

Chain of Custody Record

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

187445

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler (Micca Buckman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-N1W	12/19/18	1010	G	GW	10	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-03W	12/19/18	1600	G	GW	9	Y		X	X	X	X	X	
~~DG-Q3W~~	~~12/19/18~~	~~1645~~	G	GW	9	Y		X	X	X	X	X	
DG-S3W	12/19/18	1320	G	GW	9	Y		X	X	X	X	X	
DG-U3W	12/19/18	1330	G	GW	9	Y		X	X	X	X	X	
DG-W3W	12/19/18	1425	G	GW	9	Y		X	X	X	X	X	
DG-Y3W	12/19/18	1500	G	GW	9	Y		X	X	X	X	X	
FB-12.19	12/19/18	1515	G	W	2	N		X	X	X	X	X	not filtered
DG-AA3W	12/19/18	1530	G	GW	9	Y		X	X	X	X	X	Metals & Cr samples filtered
DUP-15	12/19/18	—	G	GW	9	Y		X	X	X	X	X	metals & chromium filtered

720-90410 Chain of Custody

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Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.6, 1.2, 5.0, 2.9, 3.5, 4.3, 1.8 °C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No.: _____			
Relinquished by	Company Geosyntec	Date/Time 12/19/18 1630	Received by	Company FEDEX	Date/Time 12/18/18 1630
Relinquished by	Company FADX	Date/Time 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/18/18 1910

Form No. CA-C-WI-002/Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No 720-40581.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90410-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU2 Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Voladile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-N1W (720-90410-1)	12/18/18	09:00 Pacific		Water			X	X	X	X	8	check for 2 phases
DG-O3W (720-90410-2)	12/18/18	10:00 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-S3W (720-90410-3)	12/18/18	13:00 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-U3W (720-90410-4)	12/18/18	13.30 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-W3W (720-90410-5)	12/18/18	14:25 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-Y3W (720-90410-6)	12/18/18	15.00 Pacific		Water			X	X	X	X	7	check for 2 phases
FB-12.18.18 (720-90410-7)	12/18/18	15:15 Pacific		Water			X	X			2	check for 2 phases
DG-AA3W (720-90410-8)	12/18/18	15:30 Pacific		Water			X	X	X	X	7	check for 2 phases
DUP-15 (720-90410-9)	12/18/18	Pacific		Water			X	X	X	X	7	check for 2 phases

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	12-19-18 1600	Pleas	[signature]	12/20/18 1100	TAL PIV
2	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 4688 0270 3440

Cooler Temperature(s) °C and Other Remarks: 1.3/1.3 1.8/1.8 4.0/4.2 1.9/2.1 IR-88

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-90412-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/8/2019 6:03 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/08/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90412-1

Comments
See client email in Correspondences to address the descrepancies listed below from Receipt exceptions.

Receipt
The samples were received on 12/18/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.2º C, 1.8º C, 2.8º C, 2.9º C, 3.9º C, 4.3º C and 5.0º C.

Receipt Exceptions

Sampler name not indicated on COC.
A majority of the 8oz soil jars were not filled completely and there were rocks in some of the jars.

The following samples did not match the information listed on the Chain-of-Custody (COC):
• (#21 DG-AA3S-7-7.5. Received only 1x4oz jar in Pleasanton whereas teh COC lists 7 containers. Logged on HOLD.

• (#23) DG-AH4S-6-6.5. Received only 2x4oz jar, while the COC lists # containers (2). Logged only one 4 oz on this submission for PAH-SIM and DRO/MO. This sample is repeated on another 4 pg COC sample (#17) received today for CAM 17 Metals.

• (#2) DG-P1S-3.5-4.0 and (#3) DUP-02. Only logged for VOC+GAS; only received Terra cores.

• (#24) DG-AH4S-4-4.5. Received 2x4oz jar in Pleasanton , and also 4-Terra Cores in Irvine, while the COC lists # containers (2).

GC/MS VOA
Method 8260B/CA_LUFTMS: Surrogate recovery for Dibromofluoromethane the following sample were outside the upper control limits: DG-N1S-0.5-1 (720-90412-4) and DG-Q3S-0.5-1 (720-90412-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B/CA_LUFTMS: Surrogate recovery for Dibromofluoromethane and 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-O3S-3.5-4 (720-90412-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-N1S-3.5-4 (720-90412-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B/CA_LUFTMS: Surrogate recovery for the following samples were outside control limits: (440-228365-A-1), (440-228365-A-1 MS) and (440-228365-A-1 MSD). Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

Method 8260B/CA_LUFTMS: Surrogate 4-Bromofluorobenzene (123%=79-120) and Dibromofluoromethane (126%=60-120) recovery for the following sample was outside control limits: DG-S3S-3.5-4 (720-90412-11). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method 8260B/CA_LUFTMS: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 (28.50%=50-200), Chlorobenzene-d5 (32.16%=50-200), and Fluorobenzene (36.01%=50-200) response for the following sample was outside control limits: DG-S3S-3.5-4 (720-90412-11). The sample(s) was re-extracted and/or re-analyzed with concurring results.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518870 recovered above the upper control limit for Toluene, Chloroform, 1,1-Dichloroethene, trans-1,2-Dichloroethene and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518651 recovered above the upper control limit for Vinyl chloride and 1,1-Dichloroethene . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-518870 recovered outside control limits for the following analyte: Bromobenzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-518651 recovered outside control limits for the following analyte: Tetrachloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-518913 and analytical batch 440-518870 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The matrix spike duplicate (MSD) recovery for preparation batch 440-518913 and analytical batch 440-518870 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: Surrogate recovery for Dibromofluoromethane.for the following sample were outside the upper control limits: DG-N1S-0.5-1 (720-90412-4) and DG-Q3S-0.5-1 (720-90412-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: Surrogate recovery for 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-N1S-3.5-4 (720-90412-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: Surrogate recovery for Dibromofluoromethane and 4-Bromofluorobenzene for the following sample were outside the upper control limits: DG-O3S-3.5-4 (720-90412-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed

Method 8260B: Surrogate recovery for 4-Bromofluorobenzene for the following sample was outside the upper control limit: (720-90388-B-2-C). Re-analysis were performed with concurring results. Matrix interference was confirmed. The original analysis has been reported

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-518646 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-U3S-0.5-1 (720-90412-12), DG-U3S-3.5-4 (720-90412-13), DUP-15 (720-90412-14), DG-W3S-0.5-1 (720-90412-15), DG-W3S-3.5-4 (720-90412-16), DG-Y3S-0.5-1 (720-90412-17), DG-Y3S-3.5-4 (720-90412-18), DG-AA3S-0.5-1 (720-90412-19), DG-AA3S-3.5-4 (720-90412-20), DG-AA3S-7-7.5 (720-90412-21), DUP-16 (720-90412-22) and (CCVIS 440-518646/2).

Method 8260B: Surrogate recovery for 1,2-Dichloroethane-d4 for the following samples was outside the upper control limit: DG-P1S-0.5-1 (720-90412-1), DG-N1S-3.5-4 (720-90412-5), DG-O3S-3.5-4 (720-90412-7), DG-Q3S-0.5-1 (720-90412-8) and (720-90388-B-2-C). These samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Surrogate 4-Bromofluorobenzene (123%=79-120) and Dibromofluoromethane (126%=60-120) recovery for the following sample was outside control limits: DG-S3S-3.5-4 (720-90412-11). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method 8260B: Internal standard (ISTD)1,4-Dichlorobenzene-d4 (36.88%=50-200), Chlorobenzene-d5 (41.91%=50-200), and Fluorobenzene (47.19%=50-200) response for the following sample was outside control limits: DG-S3S-3.5-4 (720-90412-11). The sample(s) was re-extracted and/or re-analyzed with concurring results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C SIM: The method blank for preparation batch 720-257530 and analytical batch 720-257593 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-257381 and analytical batch 720-257669 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-257608 and analytical batch 720-257703 contained Benzo[b]fluoranthene and 2-Methylnaphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257608 and analytical batch 720-257703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257381 and analytical batch 720-257766 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-N1S-0.5-1 (720-90412-4), DG-S3S-3.5-4 (720-90412-11), DG-U3S-0.5-1 (720-90412-12), DUP-15 (720-90412-14), DG-W3S-0.5-1 (720-90412-15), DG-Y3S-0.5-1 (720-90412-17), DG-AA3S-0.5-1 (720-90412-19) and DUP-16 (720-90412-22). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-AH4S-4-4.5 (720-90412-24). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-AH4S-4-4.5 (720-90412-24). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-S3S-3.5-4 (720-90412-11) and DUP-15 (720-90412-14). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The method blank for preparation batches 720-257342 and 720-257349 and analytical batch 720-257324 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: (720-90388-E-6-I), (720-90388-E-6-G MS) and (720-90388-E-6-H MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-Y3S-0.5-1 (720-90412-17) and DG-AH4S-4-4.5 (720-90412-24). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: Surrogate recovery for the following samples were outside control limits: DG-O3S-3.5-4 (720-90412-7), (720-90388-E-6-F) and (720-90388-E-6-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257336 and analytical batch 720-257557 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for cis-Chlordane for the following sample: DG-N1S-0.5-1 (720-90412-4). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The continuing calibration verification (CCV) associated with batch 720-257557 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-O3S-3.5-4 (720-90412-7), (MB 720-257336/1-A) and (720-90388-E-6-F).

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following sample: DG-U3S-0.5-1 (720-90412-12). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257270 and analytical batch 720-257644 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-N1S-0.5-1 (720-90412-4), DG-N1S-3.5-4 (720-90412-5), DG-O3S-0.5-1 (720-90412-6), DG-O3S-3.5-4 (720-90412-7), DG-Q3S-0.5-1 (720-90412-8), DG-Q3S-3.5-4 (720-90412-9), DG-S3S-0.5-1 (720-90412-10), DG-S3S-3.5-4 (720-90412-11), DG-U3S-0.5-1 (720-90412-12), DG-U3S-3.5-4 (720-90412-13), DUP-15 (720-90412-14), DG-W3S-0.5-1 (720-90412-15), DG-W3S-3.5-4 (720-90412-16), DG-Y3S-0.5-1 (720-90412-17), DG-Y3S-3.5-4 (720-90412-18), DG-AA3S-0.5-1 (720-90412-19) and (720-90388-A-6-C). Elevated reporting limits (RLs) are provided.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257723 was outside of control limits. As-131%, Ba-138%, Be-127%, Cr-127%, Cu-139%, Pb-129%, V-132%, Zn-132%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257723 was outside control limits for As-104%, Ba-12%, Co-25%, Cr-18%, Ni-17%, Pb-17%, V-13%, Zn-17%: (720-90388-A-6-C SD ^20)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257270 and analytical batch 720-257723 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257285 and analytical batch 720-257864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257864 was outside of control limits. Silver-126%, Cobalt-128%, Nickel-128%, Selenium-127%, Vanadium-150%, Zinc-189%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257864 was outside control limits for Arsenic-16%, Barium-19%, Cobalt-19%, Chromium-24%, Copper-20%, Nickel-19%, Lead-21%, Vanadium-23%, Zinc-20%: (720-90413-A-6-F SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257285 and analytical batch 720-257864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample(LCS) was within acceptance limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AA3S-3.5-4 (720-90412-20), DG-AA3S-7-7.5 (720-90412-21), DUP-16 (720-90412-22) and (720-90413-A-6-F). Elevated reporting limits (RLs) are provided.

Method 7471A: The method blank for preparation batch 720-257258 and analytical batch 720-257939 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8015_3456: Due to sample viscosity the following sample was volumed up to 5 mL: DG-S3S-3.5-4 (720-90412-11)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-N1S-0.5-1 Lab Sample ID: 720-90412-4

Matrix: Solid Lab File ID: 5a122018_032.d

Analysis Method: 8015B Date Collected: 12/18/2018 09:00

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.02(g) Date Analyzed: 12/21/2018 04:19

Con. Extract Vol.: 2(mL) Dilution Factor: 2

Injection Volume: 1(uL) GC Column: ZB-5 ID: 320(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257323 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	82	B	4.0	1.5
STL00158	Motor Oil Range Organics [C24-C36]	210		100	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	92		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_032.d
Lims ID: 720-90412-E-4-A
Client ID: DG-N1S-0.5-1
Sample Type: Client
Inject. Date: 21-Dec-2018 04:19:08 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 010 Name: 720-0055776-032
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Dec-2018 12:25:53 Calib Date: 20-Dec-2018 09:01:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 12:25:53

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.503	2.588	-0.085	1111	NC	
	23 n-Decane	3.842	3.831	0.011	1001	NC	
A	21 Stoddard Solvent	4.573	(2.588-6.559)		25547	NC	
A	1 C9-C13	4.573	(2.588-6.559)		25547	NC	
A	57 C10-C12	4.792	(3.831-5.753)		13510	1.38	
	24 Dodecane		5.753			ND	
A	3 C9 - C17	5.940	(2.588-9.292)		114913	9.48	
A	47 C9 - C18	6.237	(2.588-9.887)		278402	25.9	
A	60 C10-C16	6.242	(3.831-8.653)		90395	8.20	
A	25 C9-C19	6.507	(2.588-10.426)		278402	22.8	
A	15 Kerosene	6.507	(2.588-10.426)		278402	25.8	
	26 C13	6.524	6.559	-0.035	8990	NC	
$	27 n-Decanoic Acid (Surr)		7.184			ND	U
A	59 C12-C16	7.203	(5.753-8.653)		84819	8.65	
A	62 C10-C20	7.397	(3.831-10.964)		671775	68.5	
A	28 C9-C24	7.743	(2.588-12.899)		1698093	173.3	
A	29 C9-C25	7.962	(2.588-13.337)		1994495	203.5	
A	54 C10-C23	8.138	(3.831-12.444)		1351333	137.9	
A	4 C10-C24	8.365	(3.831-12.899)		1695046	172.9	
A	16 C10-C25	8.584	(3.831-13.337)		1991448	203.2	
	45 Hexadecane	8.647	8.653	-0.006	13915	NC	
A	14 C10-C26	8.795	(3.831-13.759)		2300108	234.7	
A	67 C12-C22	8.862	(5.753-11.971)		1254650	128.0	
A	5 Diesel	9.195	(3.831-14.560)		3033757	309.5	
A	32 C10-C28	9.195	(3.831-14.560)		3033757	309.5	
A	12 Unknown Hydrocarbons	9.195	(3.831-14.560)		3033757	NC	
A	30 C13-C22	9.265	(6.559-11.971)		1246716	127.2	
	44 Heptadecane	9.303	9.292	0.011	47638	NC	
A	31 C12-C24	9.326	(5.753-12.899)		1689470	172.4	
	49 n-Octadecane		9.887			ND	
A	11 Bunker Range Organics (C9-	9.942	(2.588-17.297)		8551762	NC	
A	52 Mineral oil	9.942	(2.588-17.297)		6548392	584.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.942	(2.588-17.297)		6548392	NC	
33 C19	10.436	10.426	0.010	140355	NC	
A 64 C13-C28	10.559	(6.559-14.560)		3020247	308.2	
A 17 C10-C36	10.564	(3.831-17.297)		8548715	872.2	
A 68 Crude Oil Range Organics (	10.747	(2.588-18.907)		7903750	NC	
A 13 C9-C40	10.747	(2.588-18.907)		7903750	1081.6	
A 58 C16-C24	10.776	(8.653-12.899)		1618566	165.1	
61 icosane	10.964	10.964	0.000	61976	NC	
A 6 C10-C40	11.369	(3.831-18.907)		7899132	955.4	
$ 34 p-Terphenyl	11.947	11.962	-0.015	136514	11.4	M
35 n-Docosane		11.971			ND	
A 18 C12-C40	12.330	(5.753-18.907)		7873751	953.9	
36 Tricosane		12.444			ND	
A 66 C13-C40	12.733	(6.559-18.907)		7854948	952.2	
37 n-Tetracosane		12.899			ND	
A 2 C16-C36 ORO	12.975	(8.653-17.297)		6385936	925.1	
38 C25		13.337			ND	
46 n-Hexacosane		13.759			ND	
A 19 C16-C40	13.780	(8.653-18.907)		7741294	941.0	
A 20 C19-C36	13.862	(10.426-17.297)		5653941	655.3	
A 55 C23-C32	14.227	(12.444-16.010)		3433231	751.3	
39 n-Octacosane	14.487	14.560	-0.073	352036	NC	
65 C29	14.944	14.940	0.004	471946	NC	
A 40 C24-C36	15.098	(12.899-17.297)		4413100	794.9	
A 7 Motor Oil	15.098	(12.899-17.297)		4413100	794.9	
A 50 C25-C36	15.317	(13.337-17.297)		4118827	791.5	
A 10 C22-C40	15.439	(11.971-18.907)		6081202	846.4	
A 41 C23-C40	15.676	(12.444-18.907)		5950671	851.5	
A 8 C24-C40	15.903	(12.899-18.907)		5682967	847.9	
56 Dotriacontane		16.010			ND	
A 51 C28-C40	16.733	(14.560-18.907)		4338988	874.3	
A 63 C29-C40	16.924	(14.940-18.907)		3922888	889.1	
42 n-Hexatriacontane		17.297			ND	
43 C40		18.907			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

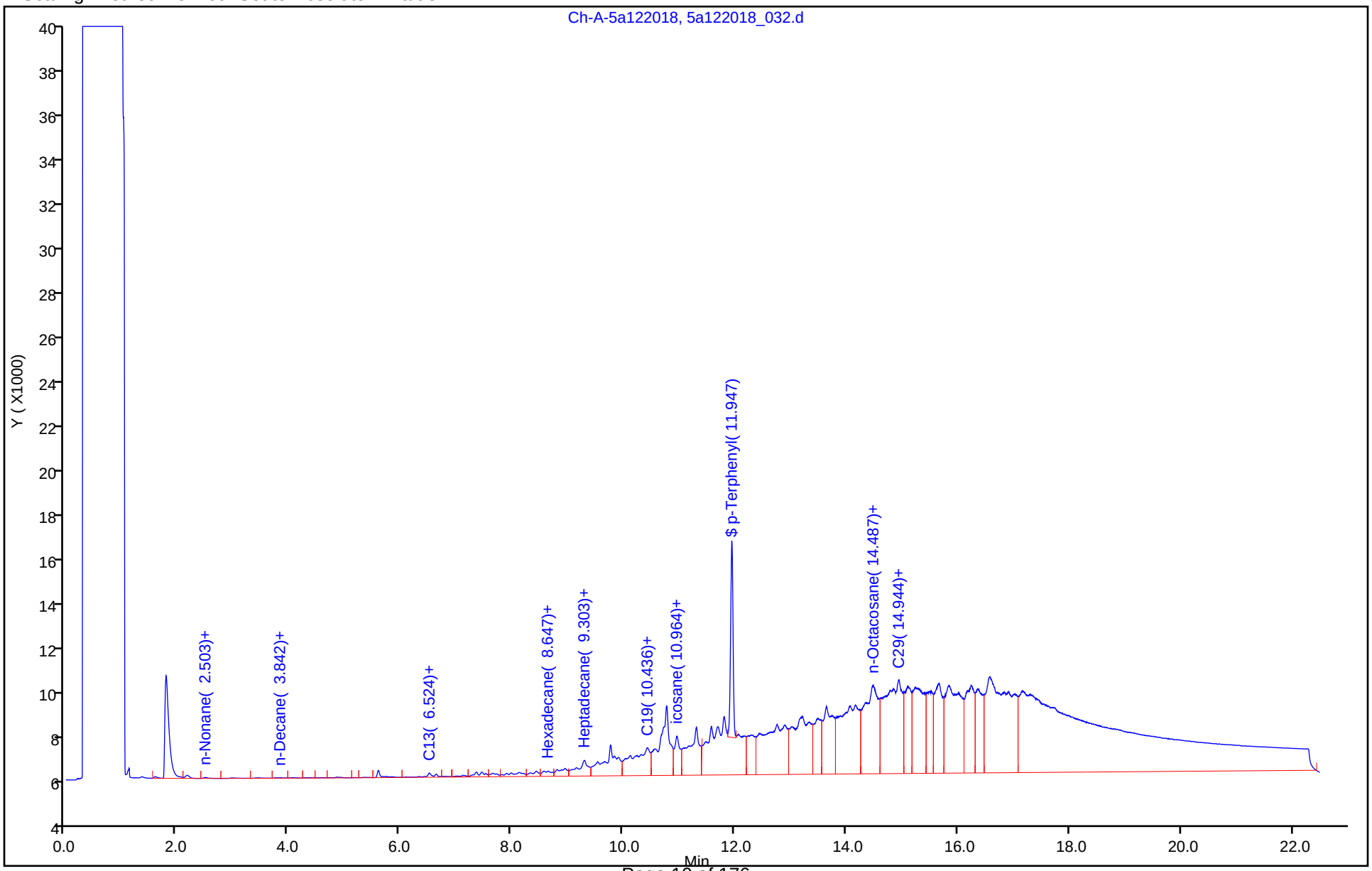
Report Date: 21-Dec-2018 12:25:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_032.d

Injection Date:	21-Dec-2018 04:19:08	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-4-A	Lab Sample ID:	720-90412-4	Worklist Smp#:	32
Client ID:	DG-N1S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_032.d				
Lims ID:	720-90412-E-4-A				
Client ID:	DG-N1S-0.5-1				
Sample Type:	Client				
Inject. Date:	21-Dec-2018 04:19:08	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 010 Name: 720-0055776-032				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Dec-2018 12:25:53	Calib Date:	20-Dec-2018 09:01:42		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				

First Level Reviewer: luj Date: 21-Dec-2018 12:25:53

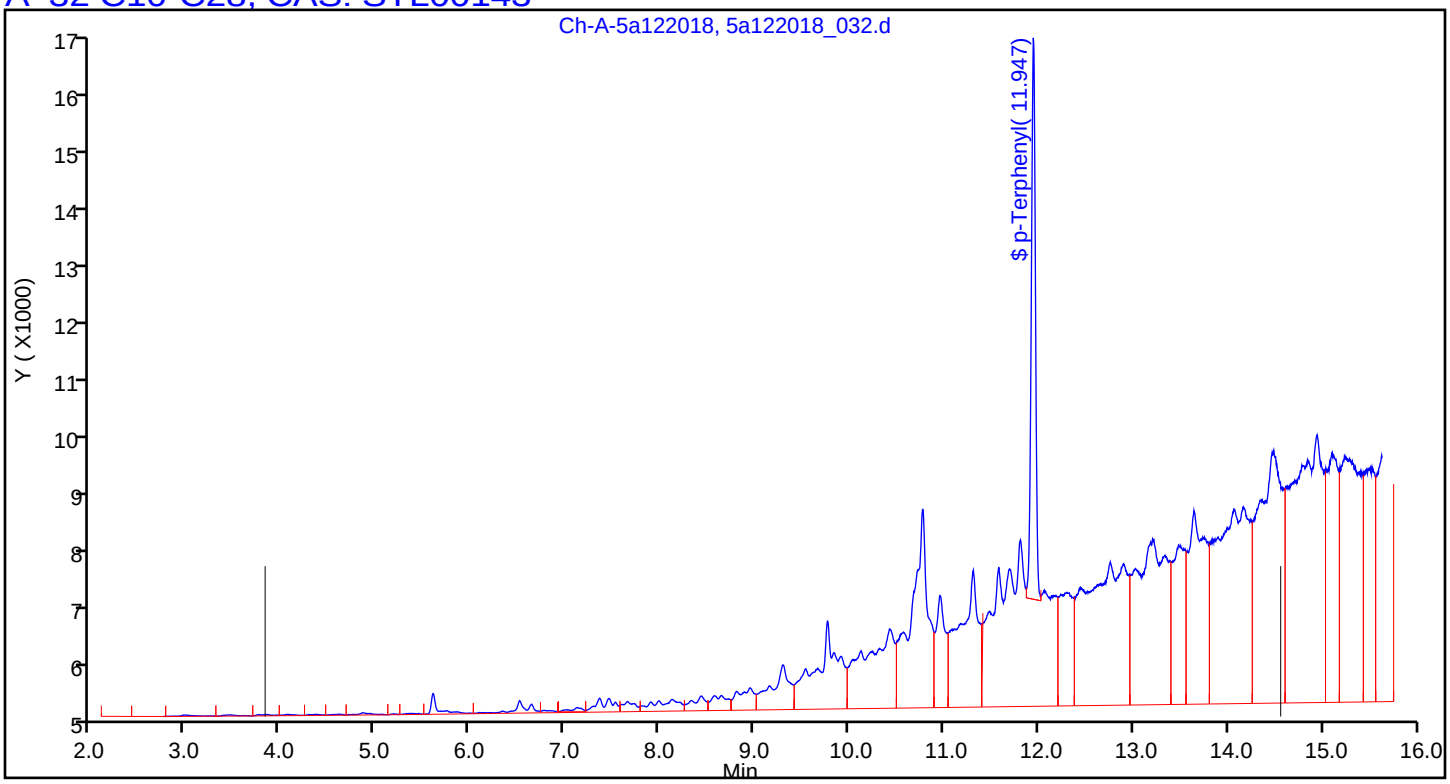
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	11.4	91.58

Report Date: 21-Dec-2018 12:25:54 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_032.d				
Injection Date:	21-Dec-2018 04:19:08	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-4-A	Lab Sample ID:	720-90412-4		
Client ID:	DG-N1S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

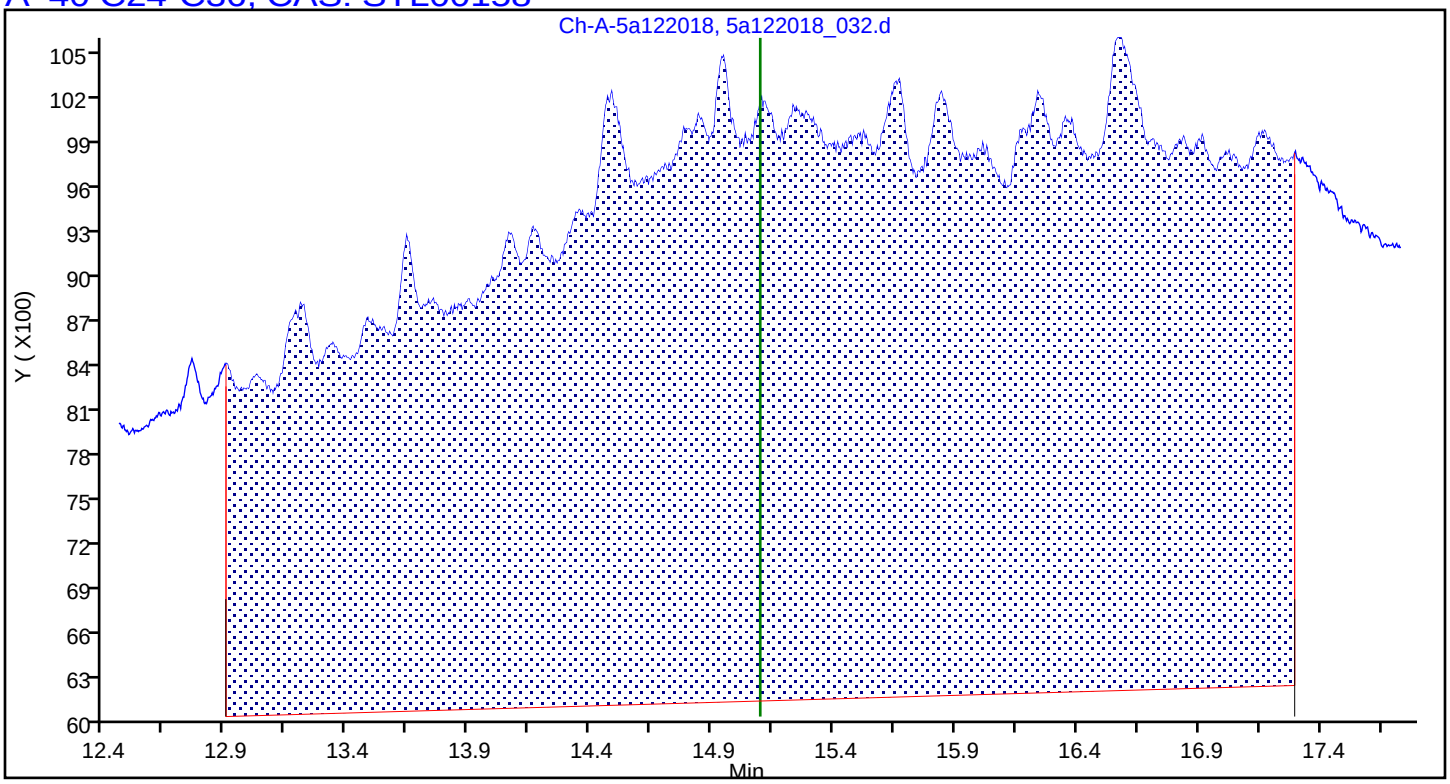


Report Date: 21-Dec-2018 12:25:54 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_032.d				
Injection Date:	21-Dec-2018 04:19:08	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-4-A	Lab Sample ID:	720-90412-4		
Client ID:	DG-N1S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

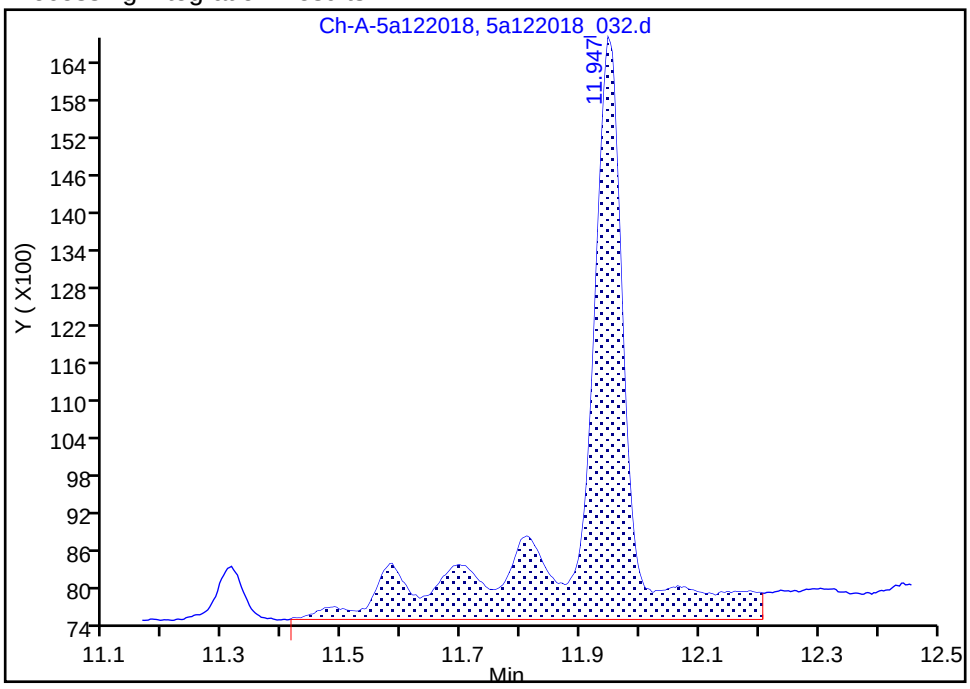
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_032.d				
Injection Date:	21-Dec-2018 04:19:08	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-4-A	Lab Sample ID:	720-90412-4		
Client ID:	DG-N1S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

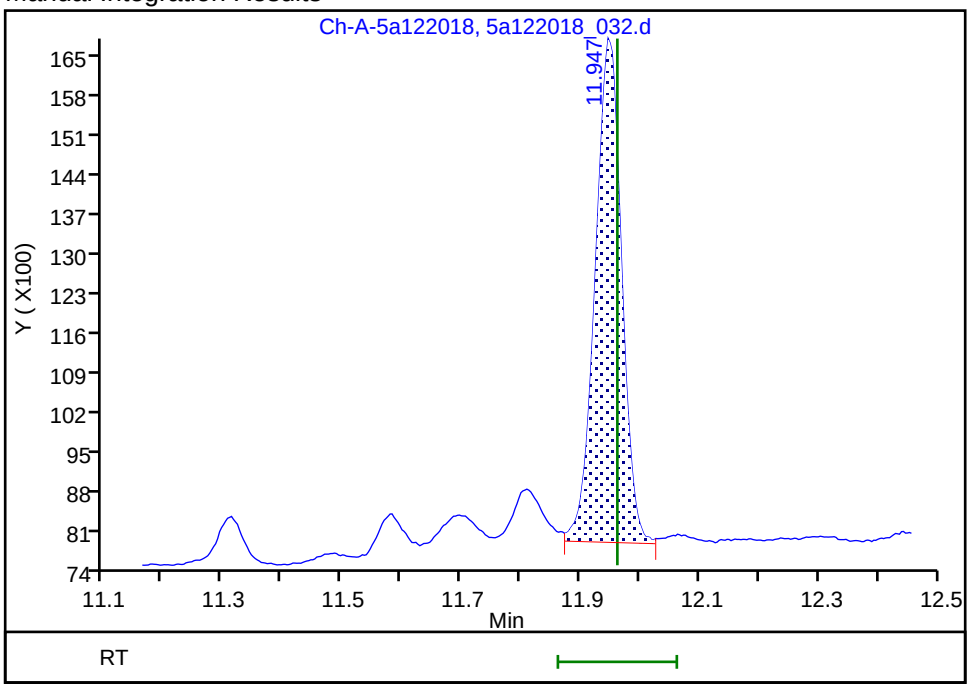
Processing Integration Results

RT: 11.95
Area: 252806
Amount: 21.199818
Amount Units: mg/L



Manual Integration Results

RT: 11.95
Area: 136514
Amount: 11.447798
Amount Units: mg/L



Reviewer: luj, 21-Dec-2018 12:25:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-N1S-3.5-4 Lab Sample ID: 720-90412-5

Matrix: Solid Lab File ID: FID1000023.D

Analysis Method: 8015B Date Collected: 12/18/2018 09:00

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.01(g) Date Analyzed: 12/20/2018 22:48

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: MXT-1 ID: 530(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257325 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	3.2	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	ND		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	94		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000023.D
Lims ID: 720-90412-E-5-A
Client ID: DG-N1S-3.5-4
Sample Type: Client
Inject. Date: 20-Dec-2018 22:48:16 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055778-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\DRO6_A.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:54:32 Calib Date: 20-Dec-2018 08:50:52
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:54:32

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.212			ND	
	23 n-Decane	2.116	2.089	0.027	124828	NC	
A	21 Stoddard Solvent	2.700	(1.212-4.189)		2278358	1.67	
A	1 C9-C13	2.700	(1.212-4.189)		2278358	NC	
A	57 C10-C12	2.829	(2.089-3.569)		1465089	1.15	
	24 Dodecane	3.551	3.569	-0.018	133737	NC	
A	3 C9 - C17	3.738	(1.212-6.264)		3405826	2.23	M
A	60 C10-C16	3.939	(2.089-5.788)		2817708	2.05	M
A	47 C9 - C18	3.963	(1.212-6.714)		4660300	4.21	M
A	25 C9-C19	4.178	(1.212-7.144)		6281326	4.10	M
A	15 Kerosene	4.178	(1.212-7.144)		6281326	5.67	M
	26 C13		4.189			ND	
$	27 n-Decanoic Acid (Surr)		4.550			ND	U
A	59 C12-C16	4.679	(3.569-5.788)		1486356	1.17	M
A	62 C10-C20	4.822	(2.089-7.554)		10107167	7.92	M
A	28 C9-C24	5.125	(1.212-9.038)		20003092	15.7	M
A	29 C9-C25	5.293	(1.212-9.374)		23971421	18.8	M
A	54 C10-C23	5.389	(2.089-8.689)		18430761	14.4	M
A	4 C10-C24	5.563	(2.089-9.038)		19810051	15.5	M
A	16 C10-C25	5.732	(2.089-9.374)		23778380	18.6	M
	45 Hexadecane	5.797	5.788	0.009	113066	NC	M
A	14 C10-C26	5.894	(2.089-9.699)		24744863	19.4	M
A	67 C12-C22	5.947	(3.569-8.325)		14458099	11.3	M
A	5 Diesel	6.203	(2.089-10.317)		30294384	23.7	M
A	12 Unknown Hydrocarbons	6.203	(2.089-10.317)		30294384	NC	M
A	32 C10-C28	6.203	(2.089-10.317)		30294384	23.7	M
A	30 C13-C22	6.257	(4.189-8.325)		13989081	11.0	M
	44 Heptadecane	6.266	6.264	0.002	289400	NC	M
A	31 C12-C24	6.303	(3.569-9.038)		18478699	14.5	M
	51 n-Octadecane	6.718	6.714	0.004	392028	NC	M
A	52 Mineral oil	6.824	(1.212-12.435)		60767768	NC	M
A	11 Bunker Range Organics (C9-	6.824	(1.212-12.435)		60767768	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.824	(1.212-12.435)		60767768	NC	M
33 C19	7.148	7.144	0.004	665407	NC	M
A 64 C13-C28	7.253	(4.189-10.317)		28494014	22.3	M
A 17 C10-C36	7.262	(2.089-12.435)		60574727	47.5	M
A 13 C9-C40	7.317	(1.212-13.422)		72824567	65.7	M
A 68 Crude Oil Range Organics (	7.317	(1.212-13.422)		72824567	NC	M
A 58 C16-C24	7.413	(5.788-9.038)		16992343	13.3	M
61 icosane	7.551	7.554	-0.003	664531	NC	M
A 6 C10-C40	7.756	(2.089-13.422)		72631526	65.6	M
$ 34 p-Terphenyl	8.006	8.007	-0.001	35675952	23.5	
35 n-Docosane	8.329	8.325	0.004	507786	NC	M
A 18 C12-C40	8.495	(3.569-13.422)		71300174	66.3	M
36 Tricosane	8.688	8.689	-0.001	804550	NC	M
A 66 C13-C40	8.806	(4.189-13.422)		70831156	66.9	M
37 n-Tetracosane	9.048	9.038	0.010	974263	NC	M
A 2 C16-C36 ORO	9.112	(5.788-12.435)		78276523	90.5	
38 C25	9.374	9.374	0.000	1299845	NC	M
A 19 C16-C40	9.605	(5.788-13.422)		69813818	67.2	M
46 n-Hexacosane	9.702	9.699	0.003	1437217	NC	M
A 20 C19-C36	9.790	(7.144-12.435)		73431058	71.2	
A 55 C23-C32	10.063	(8.689-11.437)		29719568	53.8	M
39 n-Octacosane	10.322	10.317	0.005	2561568	NC	M
65 C29	10.607	10.610	-0.003	3479434	NC	M
A 7 Motor Oil	10.736	(9.038-12.435)		34072571	47.9	
A 40 C24-C36	10.736	(9.038-12.435)		34072571	47.9	
A 10 C22-C40	10.874	(8.325-13.422)		47958220	48.6	
A 49 C25-C36	10.905	(9.374-12.435)		38096192	54.6	M
A 41 C23-C40	11.055	(8.689-13.422)		55005315	55.0	M
A 8 C24-C40	11.230	(9.038-13.422)		52821475	55.9	M
56 Dotriacontane	11.432	11.437	-0.005	1567879	NC	M
A 50 C28-C40	11.869	(10.317-13.422)		42337142	57.8	M
A 63 C29-C40	12.016	(10.610-13.422)		39198613	58.1	M
42 n-Hexatriacontane	12.423	12.435	-0.012	910519	NC	M
43 C40	13.411	13.422	-0.011	462455	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

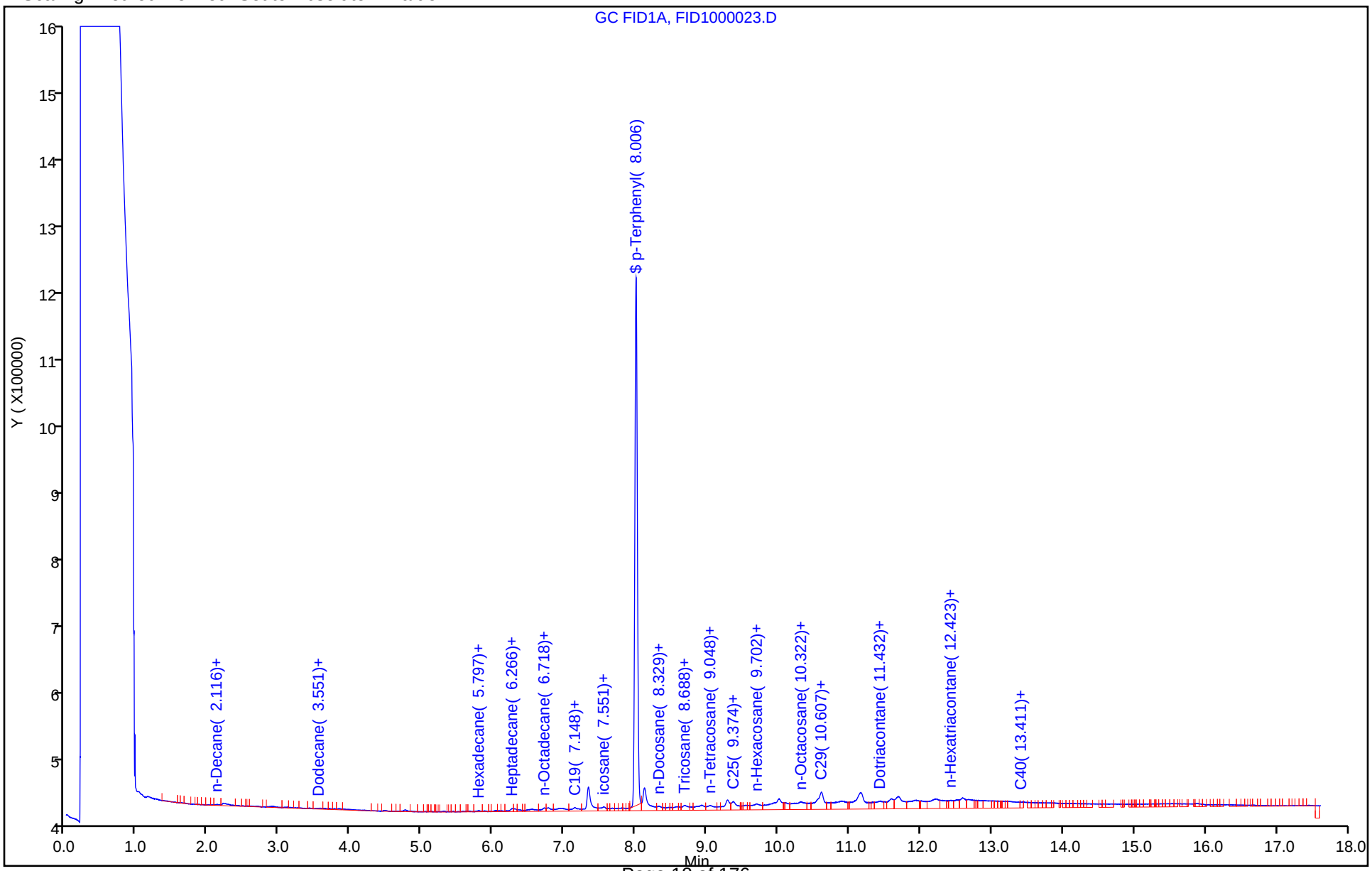
Report Date: 21-Dec-2018 11:54:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000023.D

Injection Date:	20-Dec-2018 22:48:16	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90412-E-5-A	Lab Sample ID:	720-90412-5	Worklist Smp#:	23
Client ID:	DG-N1S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000023.D
Lims ID: 720-90412-E-5-A
Client ID: DG-N1S-3.5-4
Sample Type: Client
Inject. Date: 20-Dec-2018 22:48:16 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055778-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\DRO6_A.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:54:32 Calib Date: 20-Dec-2018 08:50:52
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:54:32

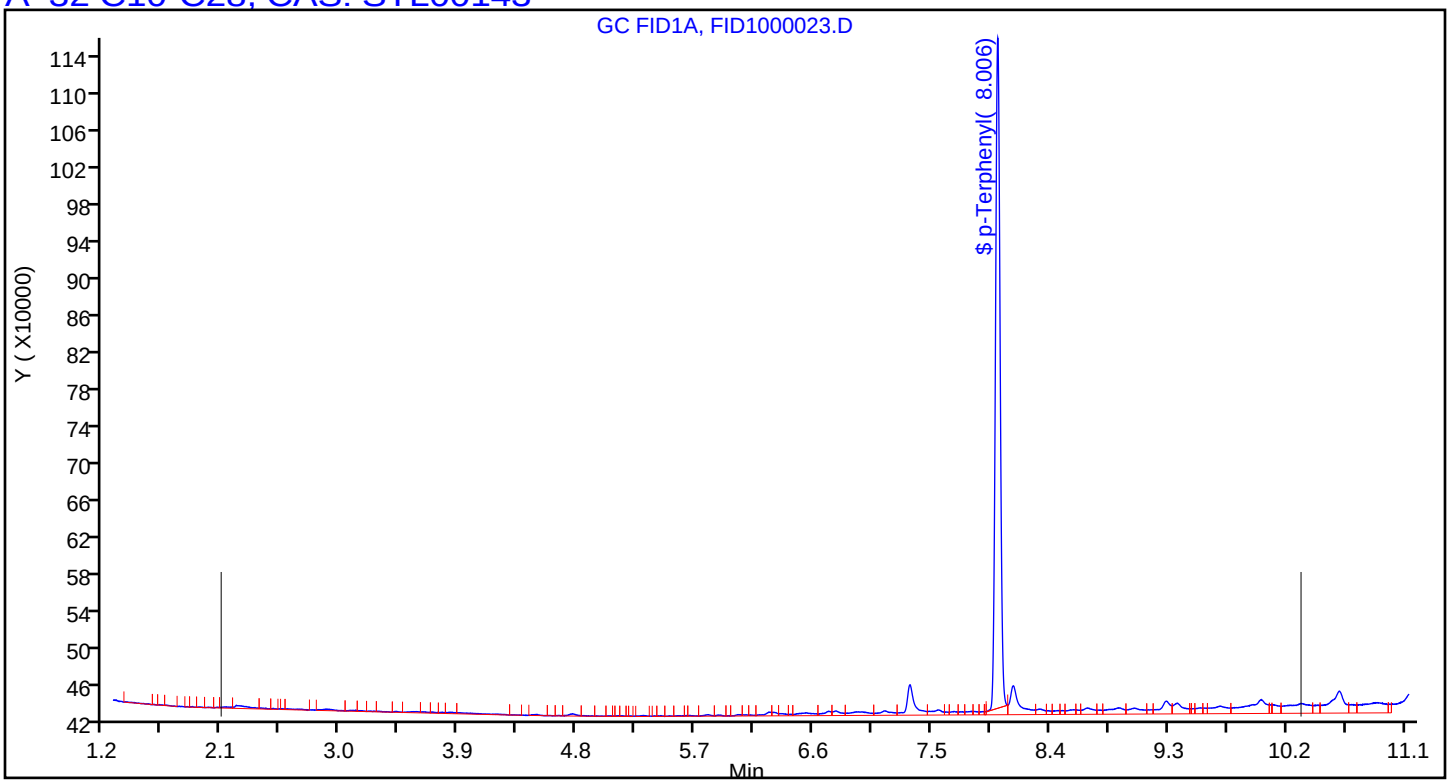
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.5	94.12

Report Date: 21-Dec-2018 11:54:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000023.D				
Injection Date:	20-Dec-2018 22:48:16	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-5-A	Lab Sample ID:	720-90412-5		
Client ID:	DG-N1S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

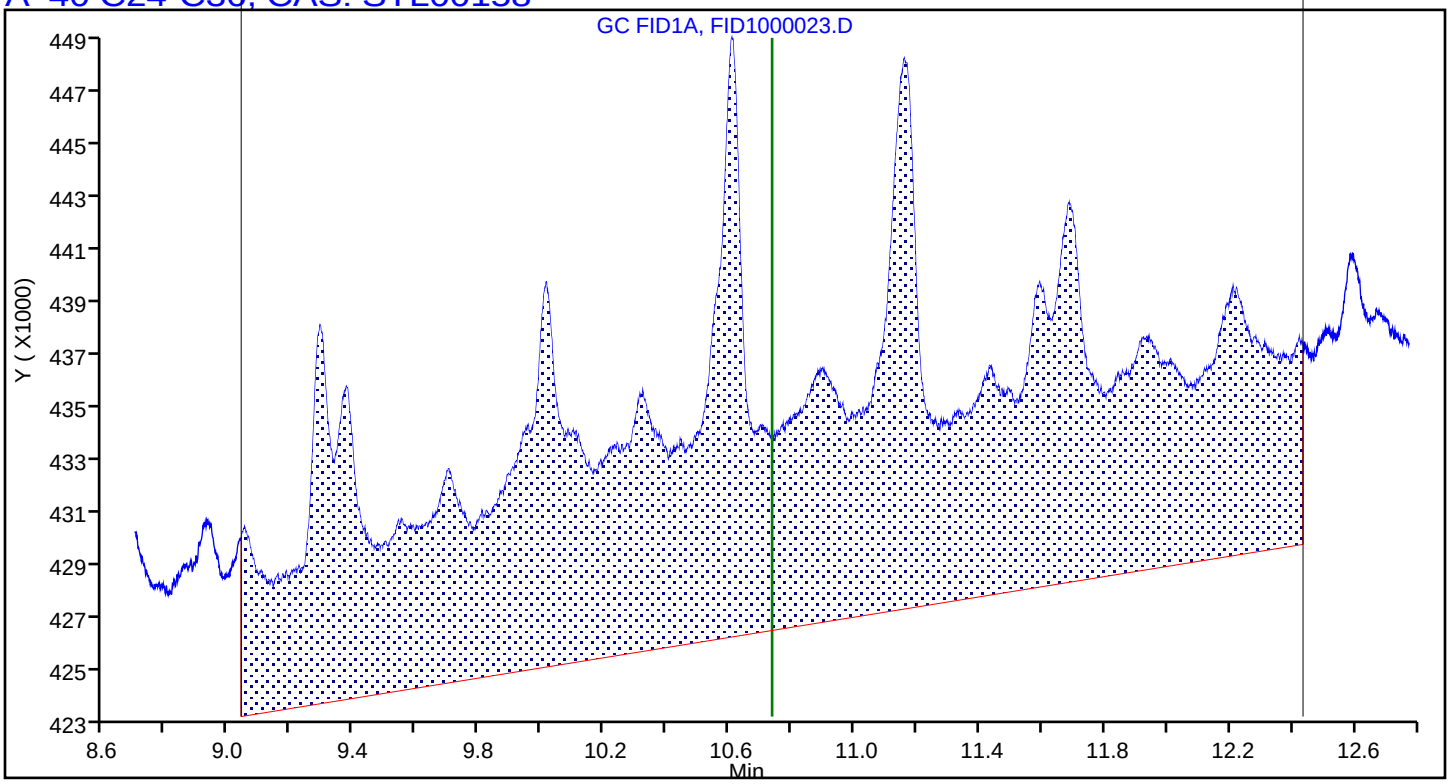


Report Date: 21-Dec-2018 11:54:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000023.D				
Injection Date:	20-Dec-2018 22:48:16	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-5-A	Lab Sample ID:	720-90412-5		
Client ID:	DG-N1S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

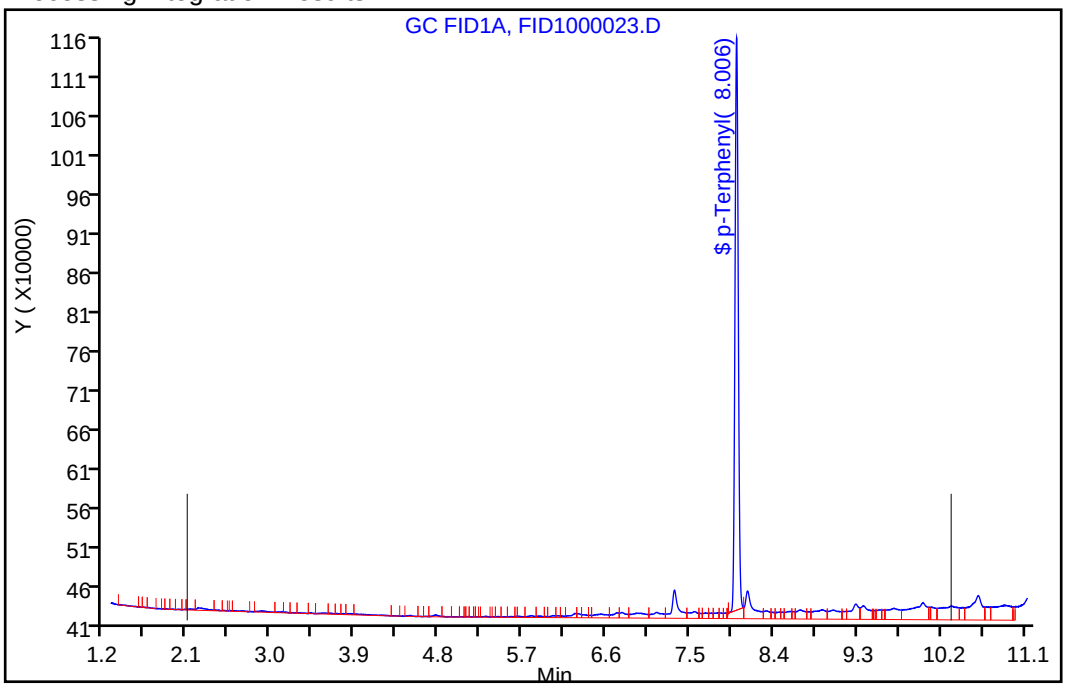
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000023.D				
Injection Date:	20-Dec-2018 22:48:16	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-5-A	Lab Sample ID:	720-90412-5		
Client ID:	DG-N1S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.203, CAS: STL00143

Signal: 1

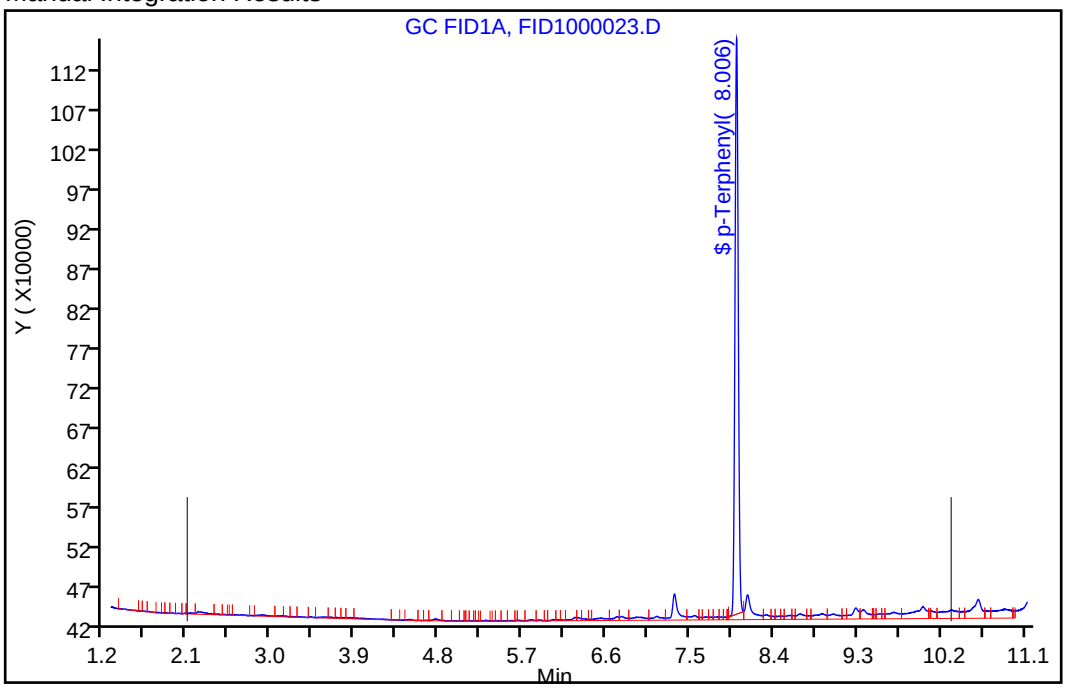
Processing Integration Results

RT: 6.20
Response: 49688607
Amount: 38.952684



Manual Integration Results

RT: 6.20
Response: 30294384
Amount: 23.748856



Reviewer: luj, 21-Dec-2018 11:54:23

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-O3S-0.5-1 Lab Sample ID: 720-90412-6

Matrix: Solid Lab File ID: FID1000024.D

Analysis Method: 8015B Date Collected: 12/18/2018 09:50

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.08(g) Date Analyzed: 12/20/2018 23:12

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: MXT-1 ID: 530(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257325 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	4.2	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	13	J	50	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	105		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000024.D
Lims ID: 720-90412-E-6-B
Client ID: DG-O3S-0.5-1
Sample Type: Client
Inject. Date: 20-Dec-2018 23:12:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055778-024
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\DRO6_A.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:55:30 Calib Date: 20-Dec-2018 08:50:52
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:55:30

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.212			ND	
	23 n-Decane	2.098	2.089	0.009	86770	NC	
A	21 Stoddard Solvent	2.700	(1.212-4.189)		1951859	1.43	
A	1 C9-C13	2.700	(1.212-4.189)		1951859	NC	
A	57 C10-C12	2.829	(2.089-3.569)		1550580	1.22	
	24 Dodecane	3.545	3.569	-0.024	78452	NC	
A	3 C9 - C17	3.738	(1.212-6.264)		3588452	2.35	
A	60 C10-C16	3.939	(2.089-5.788)		3198208	2.33	
A	47 C9 - C18	3.963	(1.212-6.714)		4730187	4.27	
A	25 C9-C19	4.178	(1.212-7.144)		6243337	4.07	
A	15 Kerosene	4.178	(1.212-7.144)		6243337	5.63	
	26 C13	4.203	4.189	0.014	71475	NC	
$	27 n-Decanoic Acid (Surr)		4.550			ND	U
A	59 C12-C16	4.679	(3.569-5.788)		1726080	1.35	
A	62 C10-C20	4.822	(2.089-7.554)		14121201	11.1	
A	28 C9-C24	5.125	(1.212-9.038)		25217250	19.8	
A	29 C9-C25	5.293	(1.212-9.374)		29782108	23.3	
A	54 C10-C23	5.389	(2.089-8.689)		22101943	17.3	
A	4 C10-C24	5.563	(2.089-9.038)		25142982	19.7	
A	16 C10-C25	5.732	(2.089-9.374)		29707840	23.3	
	45 Hexadecane	5.793	5.788	0.005	80172	NC	
A	14 C10-C26	5.894	(2.089-9.699)		31677428	24.8	
A	67 C12-C22	5.947	(3.569-8.325)		18548283	14.5	
A	5 Diesel	6.203	(2.089-10.317)		40142926	31.5	
A	12 Unknown Hydrocarbons	6.203	(2.089-10.317)		40142926	NC	
A	32 C10-C28	6.203	(2.089-10.317)		40142926	31.5	
A	30 C13-C22	6.257	(4.189-8.325)		18142820	14.2	
	44 Heptadecane	6.306	6.264	0.042	459868	NC	
A	31 C12-C24	6.303	(3.569-9.038)		23670854	18.6	
	51 n-Octadecane	6.715	6.714	0.001	250507	NC	
A	52 Mineral oil	6.824	(1.212-12.435)		101636333	NC	
A	11 Bunker Range Organics (C9-	6.824	(1.212-12.435)		101636333	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.824	(1.212-12.435)		101636333	NC	
33 C19	7.142	7.144	-0.002	281507	NC	
A 64 C13-C28	7.253	(4.189-10.317)		38265335	30.0	
A 17 C10-C36	7.262	(2.089-12.435)		101562065	79.6	
A 13 C9-C40	7.317	(1.212-13.422)		126349247	113.9	
A 68 Crude Oil Range Organics (	7.317	(1.212-13.422)		126349247	NC	
A 58 C16-C24	7.413	(5.788-9.038)		21944774	17.2	
61 icosane	7.551	7.554	-0.003	503962	NC	
A 6 C10-C40	7.756	(2.089-13.422)		126274979	114.1	
$ 34 p-Terphenyl	8.006	8.007	-0.001	39913043	26.3	
35 n-Docosane	8.327	8.325	0.002	799076	NC	
A 18 C12-C40	8.495	(3.569-13.422)		124802851	116.1	
36 Tricosane	8.689	8.689	0.000	1560135	NC	
A 66 C13-C40	8.806	(4.189-13.422)		124397388	117.5	
37 n-Tetracosane	9.053	9.038	0.015	1004638	NC	
A 2 C16-C36 ORO	9.112	(5.788-12.435)		119215597	137.8	
38 C25	9.371	9.374	-0.003	1224104	NC	
A 19 C16-C40	9.605	(5.788-13.422)		123076771	118.5	
46 n-Hexacosane	9.723	9.699	0.024	1364683	NC	
A 20 C19-C36	9.790	(7.144-12.435)		115496584	111.9	
A 55 C23-C32	10.063	(8.689-11.437)		49195681	89.1	
39 n-Octacosane	10.330	10.317	0.013	3284252	NC	
65 C29	10.602	10.610	-0.008	3086298	NC	
A 7 Motor Oil	10.736	(9.038-12.435)		71199496	100.2	
A 40 C24-C36	10.736	(9.038-12.435)		71199496	100.2	
A 10 C22-C40	10.874	(8.325-13.422)		96925881	98.2	
A 49 C25-C36	10.905	(9.374-12.435)		73078329	104.8	
A 41 C23-C40	11.055	(8.689-13.422)		104173036	104.2	
A 8 C24-C40	11.230	(9.038-13.422)		101131997	107.1	
56 Dotriacontane	11.408	11.437	-0.029	3755915	NC	
A 50 C28-C40	11.869	(10.317-13.422)		86132053	117.5	
A 63 C29-C40	12.016	(10.610-13.422)		79635946	118.1	
42 n-Hexatriacontane	12.403	12.435	-0.032	1759930	NC	
43 C40		13.422			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

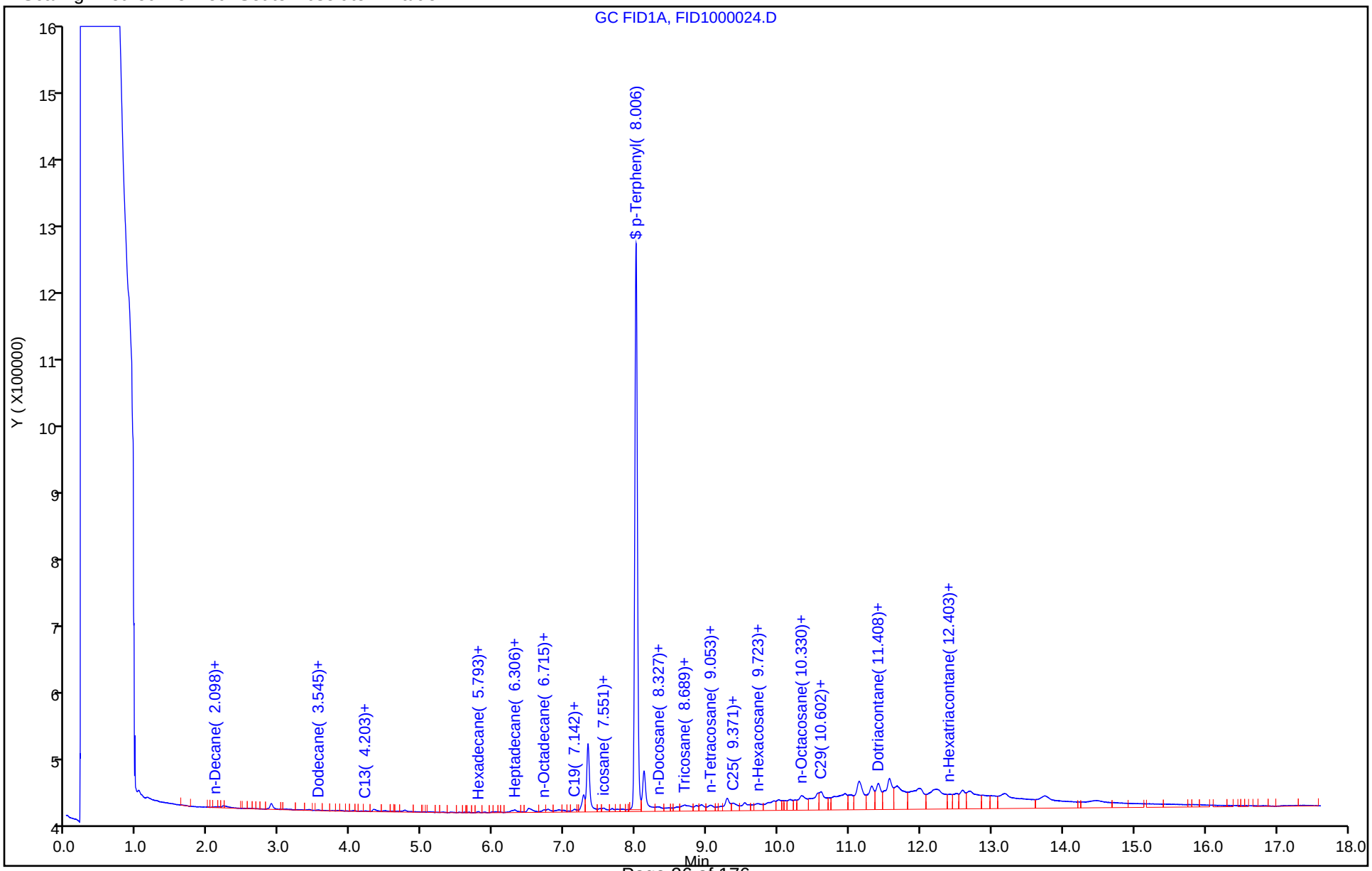
Report Date: 21-Dec-2018 11:55:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000024.D

Injection Date:	20-Dec-2018 23:12:30	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90412-E-6-B	Lab Sample ID:	720-90412-6	Worklist Smp#:	24
Client ID:	DG-O3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000024.D
Lims ID: 720-90412-E-6-B
Client ID: DG-O3S-0.5-1
Sample Type: Client
Inject. Date: 20-Dec-2018 23:12:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055778-024
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\DRO6_A.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:55:30 Calib Date: 20-Dec-2018 08:50:52
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:55:30

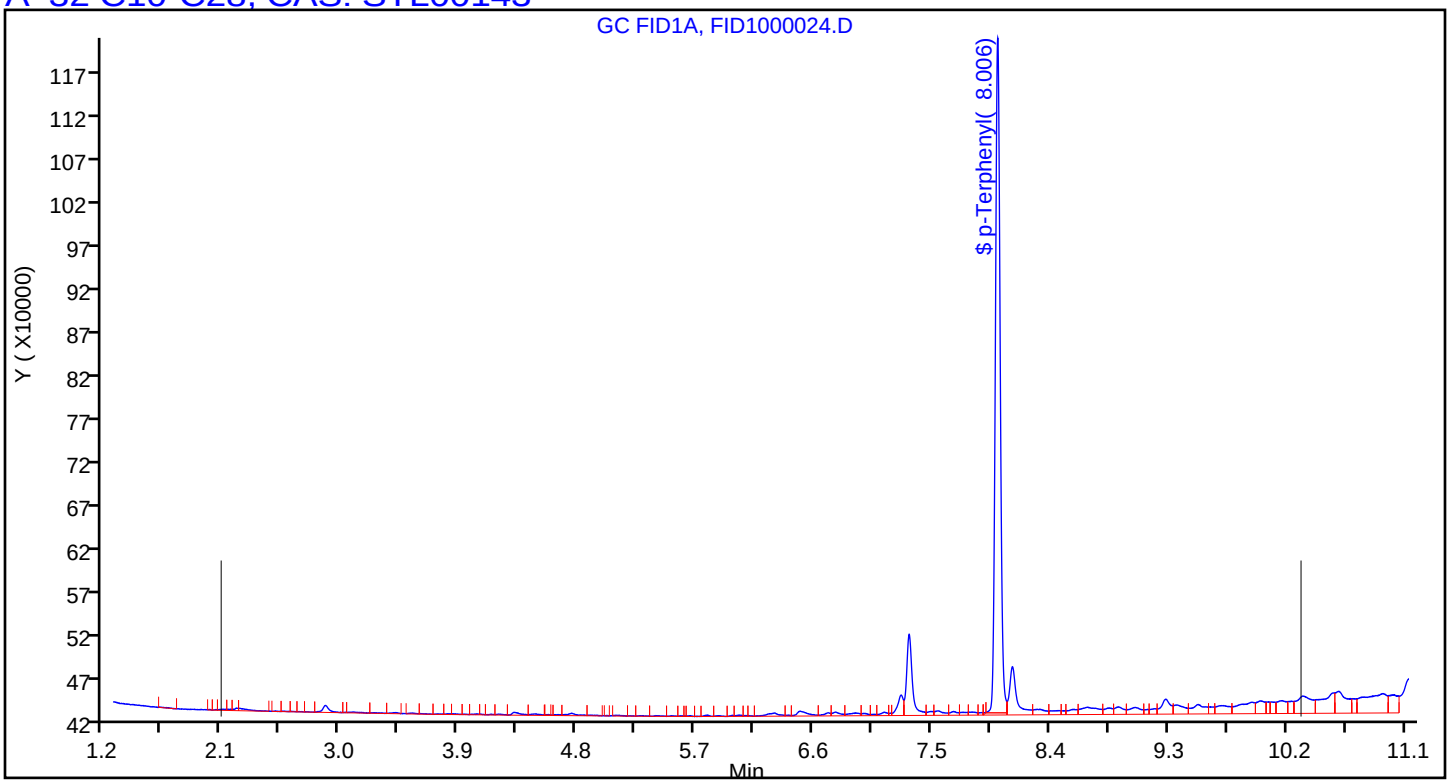
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.3	105.30

Report Date: 21-Dec-2018 11:55:32 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000024.D				
Injection Date:	20-Dec-2018 23:12:30	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-6-B	Lab Sample ID:	720-90412-6		
Client ID:	DG-O3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

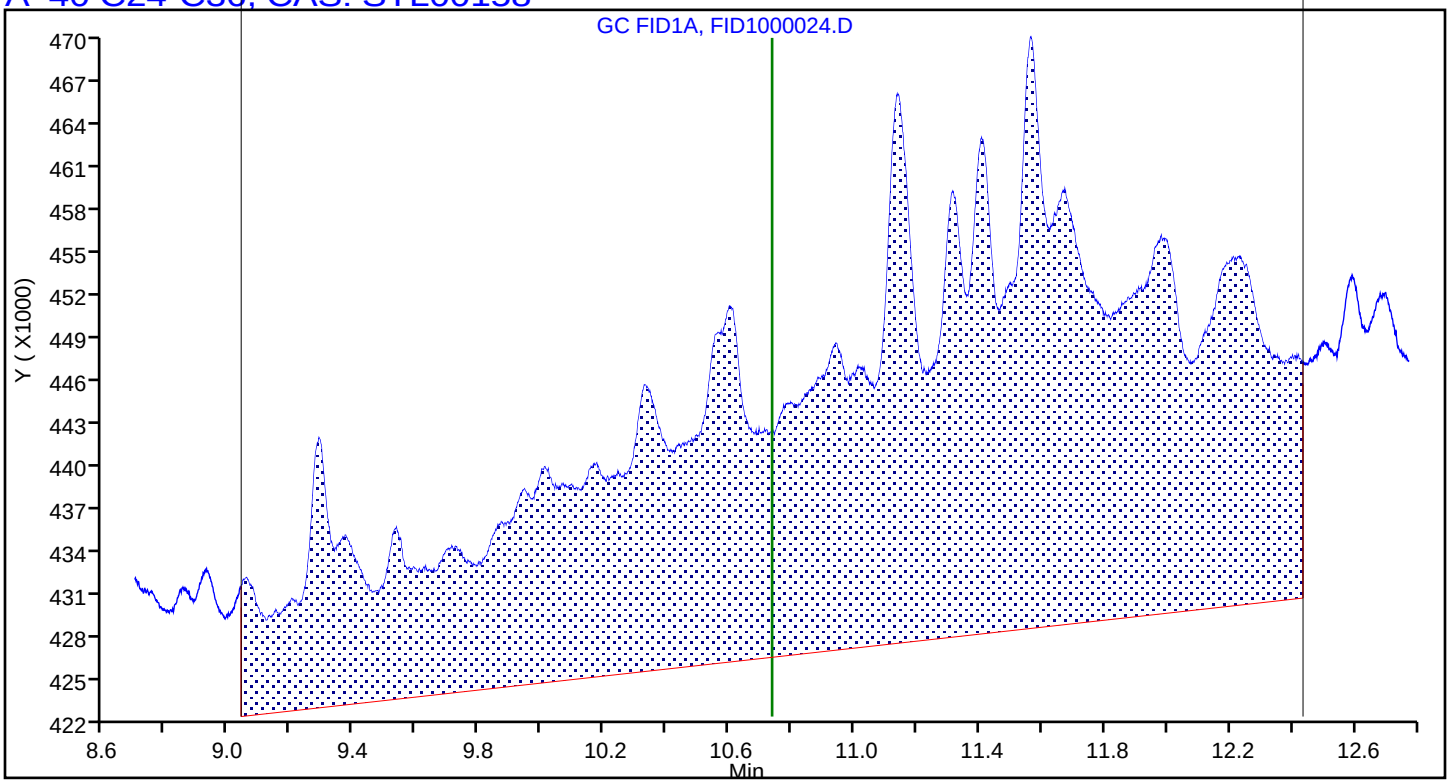


Report Date: 21-Dec-2018 11:55:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000024.D				
Injection Date:	20-Dec-2018 23:12:30	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-6-B	Lab Sample ID:	720-90412-6		
Client ID:	DG-O3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-O3S-3.5-4 Lab Sample ID: 720-90412-7

Matrix: Solid Lab File ID: FID2000024.D

Analysis Method: 8015B Date Collected: 12/18/2018 09:50

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.01(g) Date Analyzed: 12/20/2018 23:12

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: MXT-1 ID: 530(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257326 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	1.8	J B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	ND		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	93		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000024.D
Lims ID: 720-90412-E-7-B
Client ID: DG-O3S-3.5-4
Sample Type: Client
Inject. Date: 20-Dec-2018 23:12:30 ALS Bottle#: 74 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055779-024
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:39:59 Calib Date: 21-Dec-2018 02:27:59
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000032.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:39:59

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.363			ND	
	23 n-Decane	2.219	2.207	0.012	377407	NC	
A	1 C9-C13	2.810	(1.363-4.258)		4578686	NC	
A	21 Stoddard Solvent	2.810	(1.363-4.258)		4578686	1.92	
A	57 C10-C12	2.927	(2.207-3.647)		2763995	1.30	
	24 Dodecane	3.667	3.647	0.020	313167	NC	
A	3 C9 - C17	3.836	(1.363-6.310)		7460432	2.60	
A	60 C10-C16	4.023	(2.207-5.839)		6080669	2.38	
A	47 C9 - C18	4.059	(1.363-6.756)		9034028	3.98	
	26 C13	4.255	4.258	-0.003	89131	NC	
A	15 Kerosene	4.271	(1.363-7.180)		10517518	4.63	
A	25 C9-C19	4.271	(1.363-7.180)		10517518	3.64	
$	27 n-Decanoic Acid (Surr)		4.554			ND	U
A	59 C12-C16	4.743	(3.647-5.839)		3316674	1.56	
A	61 C10-C20	4.897	(2.207-7.587)		15315484	7.22	
A	28 C9-C24	5.208	(1.363-9.053)		23417172	11.0	
A	29 C9-C25	5.374	(1.363-9.385)		26210494	12.4	
A	54 C10-C23	5.458	(2.207-8.708)		21133720	9.96	
A	4 C10-C24	5.630	(2.207-9.053)		22685719	10.7	
A	16 C10-C25	5.796	(2.207-9.385)		25479041	12.0	
	45 Hexadecane	5.840	5.839	0.001	169172	NC	
A	14 C10-C26	5.956	(2.207-9.706)		26431501	12.5	
A	67 C12-C22	5.998	(3.647-8.350)		17980788	8.47	
A	5 Diesel	6.260	(2.207-10.313)		28824915	13.6	
A	12 Unknown Hydrocarbons	6.260	(2.207-10.313)		28824915	NC	
A	32 C10-C28	6.260	(2.207-10.313)		28824915	13.6	
A	30 C13-C22	6.304	(4.258-8.350)		16986681	8.00	
	44 Heptadecane	6.310	6.310	0.000	337323	NC	
A	31 C12-C24	6.350	(3.647-9.053)		19921724	9.39	
	49 n-Octadecane	6.756	6.756	0.000	386109	NC	
A	9 Crude Oil Range Organics (	6.879	(1.363-12.396)		53258674	NC	
A	11 Bunker Range Organics (C9-	6.879	(1.363-12.396)		53258674	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.879	(1.363-12.396)		53258674	23.1	
33 C19	7.186	7.180	0.006	488941	NC	
A 64 C13-C28	7.286	(4.258-10.313)		25066813	11.8	
A 17 C10-C36	7.301	(2.207-12.396)		52527221	24.8	
A 68 Crude Oil Range Organics (	7.368	(1.363-13.374)		64369345	NC	
A 13 C9-C40	7.368	(1.363-13.374)		64369345	33.0	
A 58 C16-C24	7.446	(5.839-9.053)		16605050	7.82	
62 icosane	7.586	7.587	-0.001	265414	NC	
A 6 C10-C40	7.790	(2.207-13.374)		63637892	32.6	
$ 34 p-Terphenyl	8.042	8.041	0.001	62451686	23.2	
35 n-Docosane	8.349	8.350	-0.001	285873	NC	
A 18 C12-C40	8.510	(3.647-13.374)		60873897	31.3	
36 Tricosane	8.710	8.708	0.002	719914	NC	
A 66 C13-C40	8.816	(4.258-13.374)		59879790	30.8	
37 n-Tetracosane	9.087	9.053	0.034	469717	NC	
A 2 C16-C36 ORO	9.117	(5.839-12.396)		46446552	30.9	
38 C25	9.374	9.385	-0.011	923901	NC	
A 19 C16-C40	9.607	(5.839-13.374)		57557223	29.7	
46 n-Hexacosane	9.688	9.706	-0.018	549875	NC	
A 20 C19-C36	9.788	(7.180-12.396)		43090358	NC	
A 55 C23-C32	10.062	(8.708-11.416)		19612497	19.6	
39 n-Octacosane	10.323	10.313	0.010	994585	NC	
65 C29	10.597	10.603	-0.006	2611328	NC	
A 40 C24-C36	10.724	(9.053-12.396)		42598301	33.2	
A 7 Motor Oil	10.724	(9.053-12.396)		42598301	33.2	
A 10 C22-C40	10.862	(8.350-13.374)		58080256	32.4	
A 50 C25-C36	10.891	(9.385-12.396)		37031701	30.8	
A 41 C23-C40	11.041	(8.708-13.374)		58414596	33.4	
A 8 C24-C40	11.214	(9.053-13.374)		57950791	33.9	
56 Dotriacontane	11.409	11.416	-0.007	1642234	NC	
A 51 C28-C40	11.844	(10.313-13.374)		51757188	38.4	
A 63 C29-C40	11.988	(10.603-13.374)		48849808	39.6	
42 n-Hexatriacontane	12.469	12.396	0.073	1821129	NC	
43 C40	13.401	13.374	0.027	1113210	NC	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

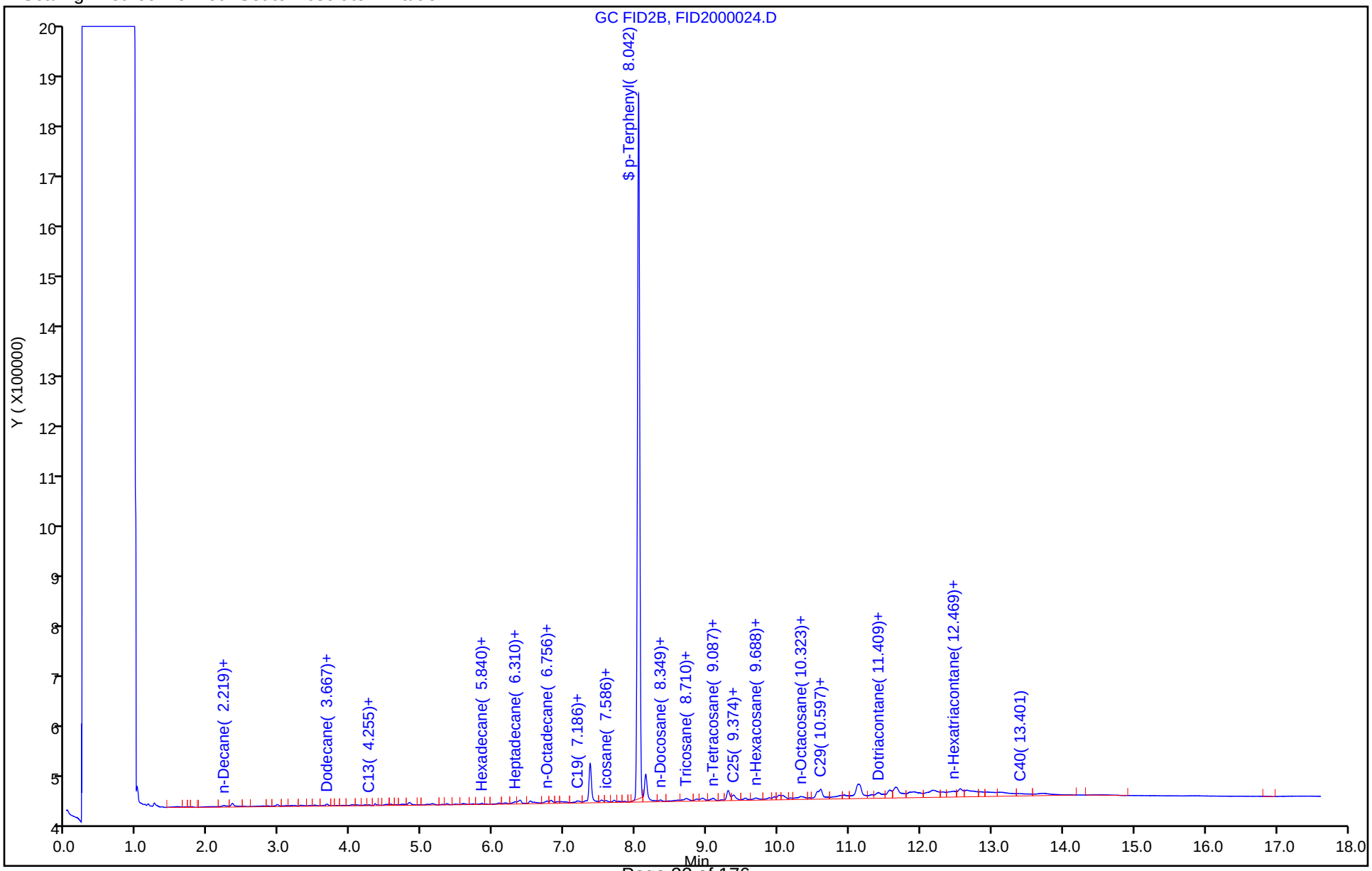
Report Date: 21-Dec-2018 11:40:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000024.D

Injection Date:	20-Dec-2018 23:12:30	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90412-E-7-B	Lab Sample ID:	720-90412-7	Worklist Smp#:	24
Client ID:	DG-O3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	74
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000024.D				
Lims ID:	720-90412-E-7-B				
Client ID:	DG-O3S-3.5-4				
Sample Type:	Client				
Inject. Date:	20-Dec-2018 23:12:30	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	720-0055779-024				
Operator ID:	RLU	Instrument ID:	CHDRO6		
Method:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\DRO6_B.m				
Limit Group:	DRO				
Last Update:	21-Dec-2018 11:39:59	Calib Date:	21-Dec-2018 02:27:59		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000032.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				

First Level Reviewer: luj Date: 21-Dec-2018 11:39:59

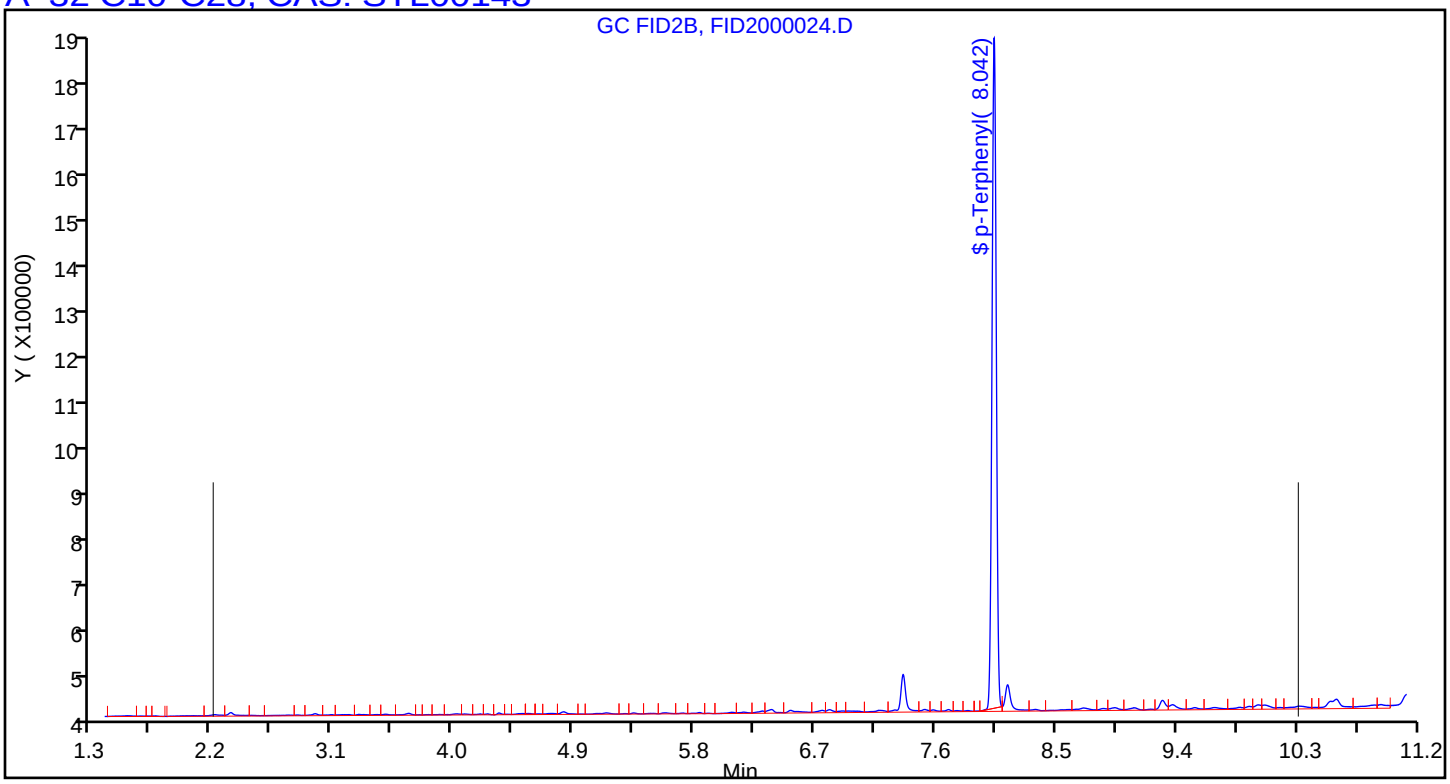
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.2	92.73

Report Date: 21-Dec-2018 11:40:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000024.D				
Injection Date:	20-Dec-2018 23:12:30	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-7-B	Lab Sample ID:	720-90412-7		
Client ID:	DG-O3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

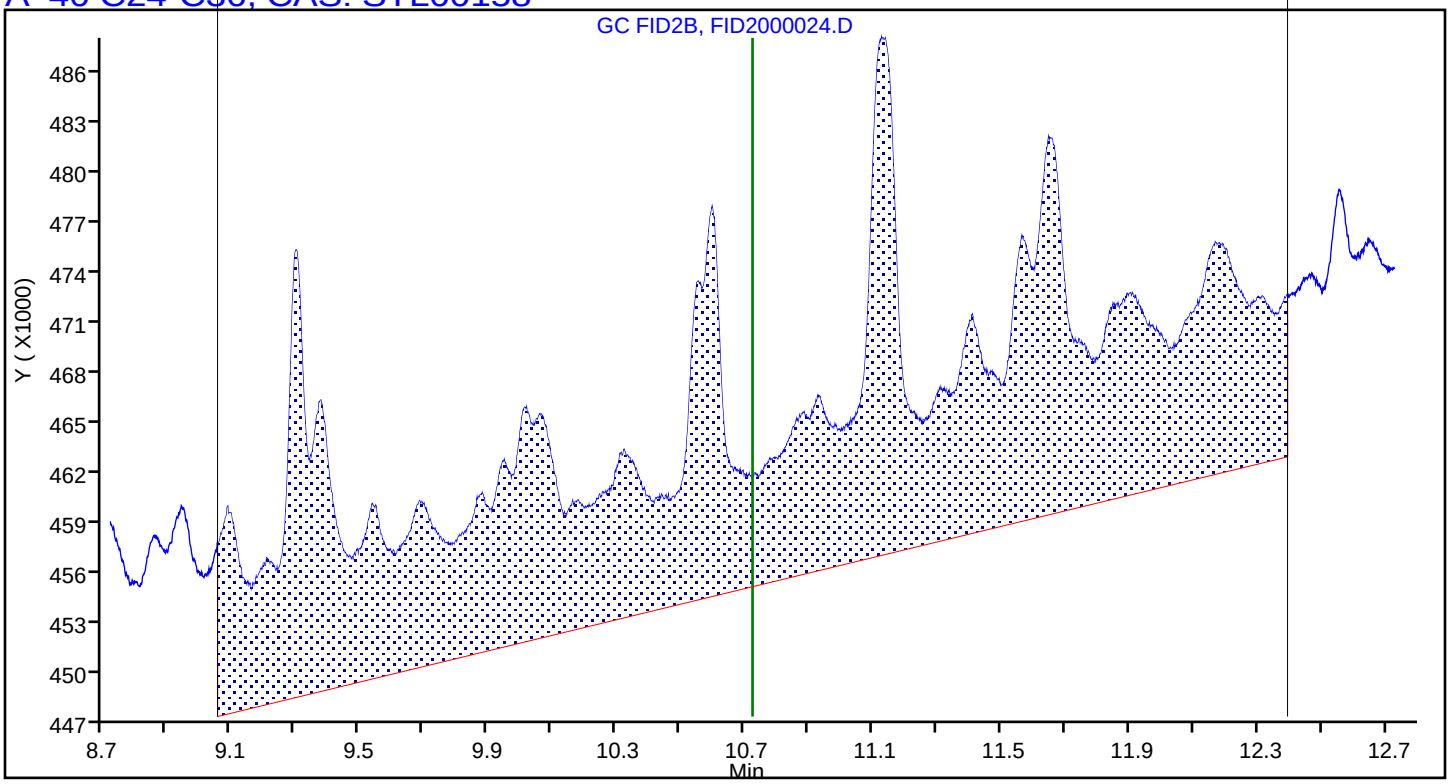


Report Date: 21-Dec-2018 11:40:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000024.D				
Injection Date:	20-Dec-2018 23:12:30	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-7-B	Lab Sample ID:	720-90412-7		
Client ID:	DG-O3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-Q3S-0.5-1 Lab Sample ID: 720-90412-8

Matrix: Solid Lab File ID: FID2000025.D

Analysis Method: 8015B Date Collected: 12/18/2018 10:35

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.04(g) Date Analyzed: 12/20/2018 23:37

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: MXT-1 ID: 530(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257326 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	11	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	31	J	50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	91		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000025.D
Lims ID: 720-90412-E-8-B
Client ID: DG-Q3S-0.5-1
Sample Type: Client
Inject. Date: 20-Dec-2018 23:37:19 ALS Bottle#: 75 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055779-025
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:40:17 Calib Date: 21-Dec-2018 02:27:59
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000032.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:40:17

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.363			ND	
	23 n-Decane	2.212	2.207	0.005	407559	NC	
A	1 C9-C13	2.810	(1.363-4.258)		10118227	NC	
A	21 Stoddard Solvent	2.810	(1.363-4.258)		10118227	4.25	
A	57 C10-C12	2.927	(2.207-3.647)		7697694	3.63	
	24 Dodecane	3.646	3.647	-0.001	29007	NC	
A	3 C9 - C17	3.836	(1.363-6.310)		17600976	6.13	
A	60 C10-C16	4.023	(2.207-5.839)		14598989	5.70	
A	47 C9 - C18	4.059	(1.363-6.756)		21773956	9.60	
	26 C13	4.259	4.258	0.001	110470	NC	
A	15 Kerosene	4.271	(1.363-7.180)		25207252	11.1	
A	25 C9-C19	4.271	(1.363-7.180)		25207252	8.73	
$	27 n-Decanoic Acid (Surr)		4.554			ND	U
A	59 C12-C16	4.743	(3.647-5.839)		6930302	3.27	
A	61 C10-C20	4.897	(2.207-7.587)		43349300	20.4	
A	28 C9-C24	5.208	(1.363-9.053)		91857169	43.3	
A	29 C9-C25	5.374	(1.363-9.385)		114767424	54.1	
A	54 C10-C23	5.458	(2.207-8.708)		74718246	35.2	
A	4 C10-C24	5.630	(2.207-9.053)		90532719	42.7	
A	16 C10-C25	5.796	(2.207-9.385)		113442974	53.5	
	45 Hexadecane	5.839	5.839	0.000	209702	NC	
A	14 C10-C26	5.956	(2.207-9.706)		121146389	57.1	
A	67 C12-C22	5.998	(3.647-8.350)		57510390	27.1	
A	5 Diesel	6.260	(2.207-10.313)		170005611	80.1	
A	12 Unknown Hydrocarbons	6.260	(2.207-10.313)		170005611	NC	
A	32 C10-C28	6.260	(2.207-10.313)		170005611	80.1	
A	30 C13-C22	6.304	(4.258-8.350)		56385300	26.6	
	44 Heptadecane	6.354	6.310	0.044	1408469	NC	
A	31 C12-C24	6.350	(3.647-9.053)		82864032	39.0	
	49 n-Octadecane	6.754	6.756	-0.002	698312	NC	
A	9 Crude Oil Range Organics (	6.879	(1.363-12.396)		403403849	NC	
A	11 Bunker Range Organics (C9-	6.879	(1.363-12.396)		403403849	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.879	(1.363-12.396)		403403849	175.3	
33 C19	7.184	7.180	0.004	872475	NC	
A 64 C13-C28	7.286	(4.258-10.313)		161211834	76.0	
A 17 C10-C36	7.301	(2.207-12.396)		402079399	189.5	
A 68 Crude Oil Range Organics (	7.368	(1.363-13.374)		482425735	NC	
A 13 C9-C40	7.368	(1.363-13.374)		482425735	247.0	
A 58 C16-C24	7.446	(5.839-9.053)		76143432	35.9	
62 icosane	7.590	7.587	0.003	1804158	NC	
A 6 C10-C40	7.790	(2.207-13.374)		481101285	246.5	
$ 34 p-Terphenyl	8.042	8.041	0.001	61584523	22.9	
35 n-Docosane	8.348	8.350	-0.002	3220552	NC	
A 18 C12-C40	8.510	(3.647-13.374)		473432598	243.2	
36 Tricosane	8.711	8.708	0.003	4647379	NC	
A 66 C13-C40	8.816	(4.258-13.374)		472307508	242.9	
37 n-Tetracosane	9.075	9.053	0.022	6278308	NC	
A 2 C16-C36 ORO	9.117	(5.839-12.396)		387690112	257.5	
38 C25	9.384	9.385	-0.001	5893107	NC	
A 19 C16-C40	9.607	(5.839-13.374)		466711998	240.6	
46 n-Hexacosane	9.743	9.706	0.037	11737436	NC	
A 20 C19-C36	9.788	(7.180-12.396)		340995734	NC	
A 55 C23-C32	10.062	(8.708-11.416)		226062311	226.3	
39 n-Octacosane	10.333	10.313	0.020	19278194	NC	
65 C29	10.599	10.603	-0.004	11677906	NC	
A 40 C24-C36	10.724	(9.053-12.396)		300368825	233.8	
A 7 Motor Oil	10.724	(9.053-12.396)		300368825	233.8	
A 10 C22-C40	10.862	(8.350-13.374)		386854618	216.1	
A 50 C25-C36	10.891	(9.385-12.396)		277879894	231.2	
A 41 C23-C40	11.041	(8.708-13.374)		378516929	216.2	
A 8 C24-C40	11.214	(9.053-13.374)		366784601	214.8	
56 Dotriacontane	11.400	11.416	-0.016	13013594	NC	
A 51 C28-C40	11.844	(10.313-13.374)		294371300	218.3	
A 63 C29-C40	11.988	(10.603-13.374)		266561269	215.9	
42 n-Hexatriacontane	12.395	12.396	-0.001	5615356	NC	
43 C40		13.374			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

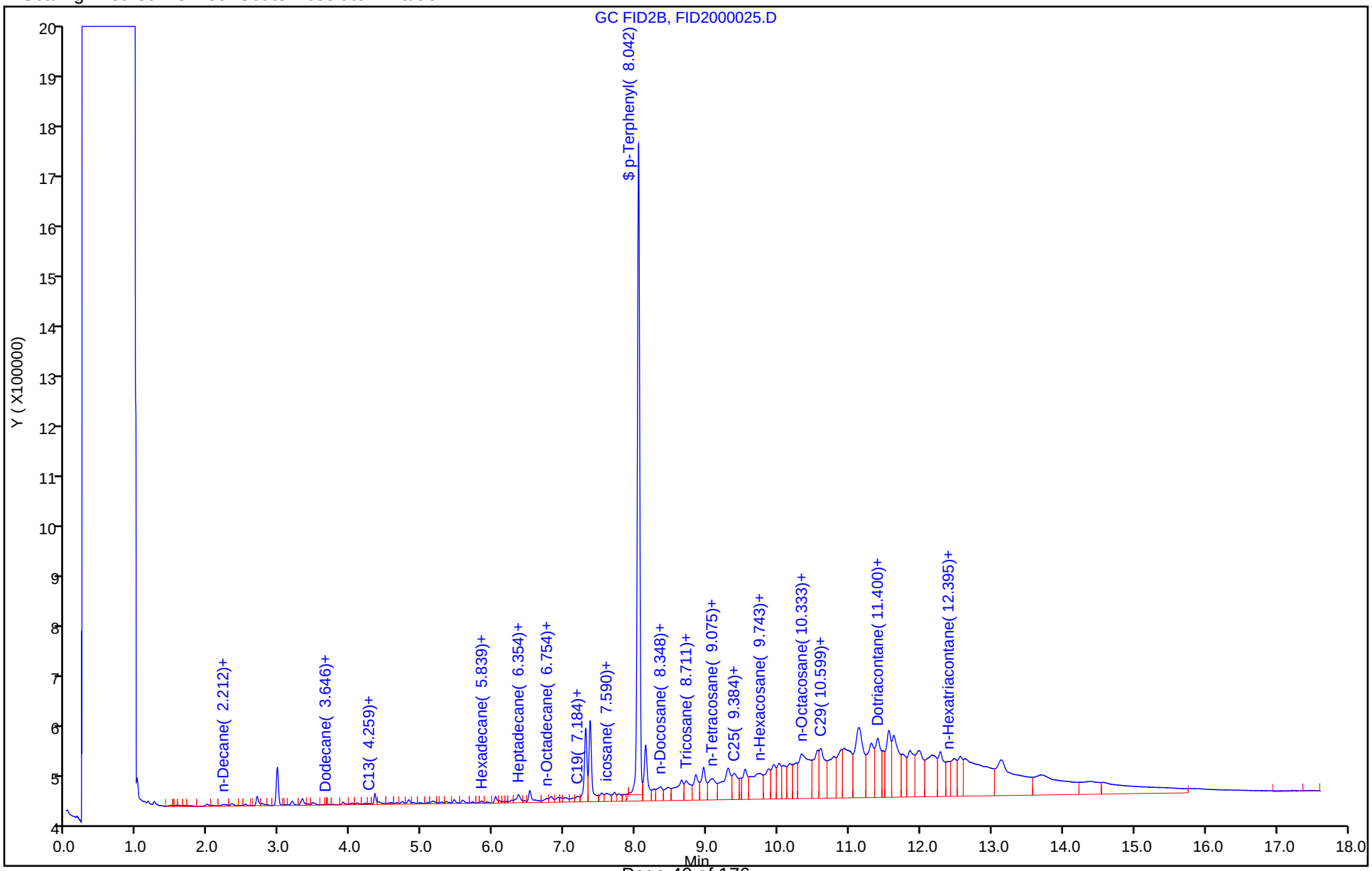
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000025.D

Injection Date:	20-Dec-2018 23:37:19	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90412-E-8-B	Lab Sample ID:	720-90412-8	Worklist Smp#:	25
Client ID:	DG-Q3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	75
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000025.D
Lims ID: 720-90412-E-8-B
Client ID: DG-Q3S-0.5-1
Sample Type: Client
Inject. Date: 20-Dec-2018 23:37:19 ALS Bottle#: 75 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055779-025
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:40:17 Calib Date: 21-Dec-2018 02:27:59
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000032.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:40:17

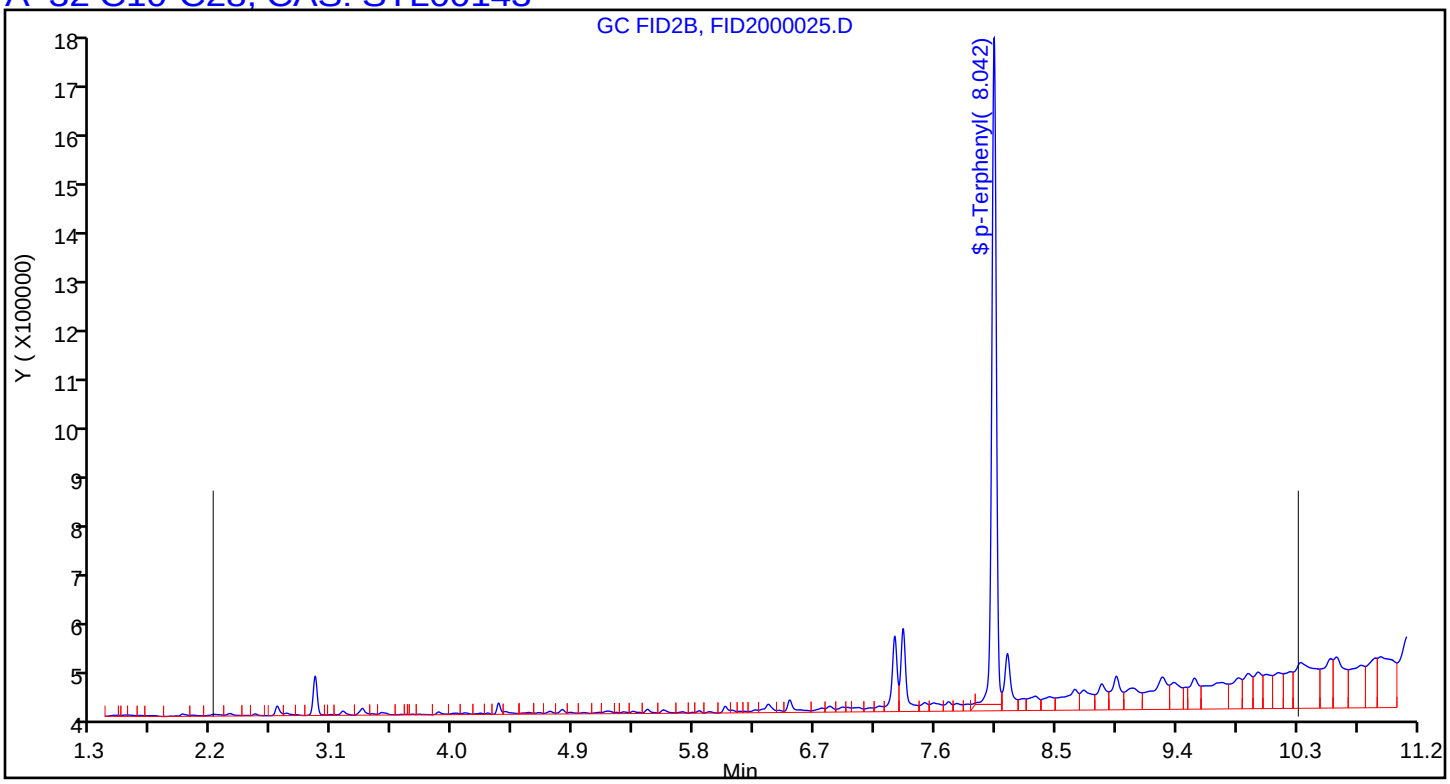
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.9	91.45

Report Date: 21-Dec-2018 11:40:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000025.D				
Injection Date:	20-Dec-2018 23:37:19	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-8-B	Lab Sample ID:	720-90412-8		
Client ID:	DG-Q3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	75	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

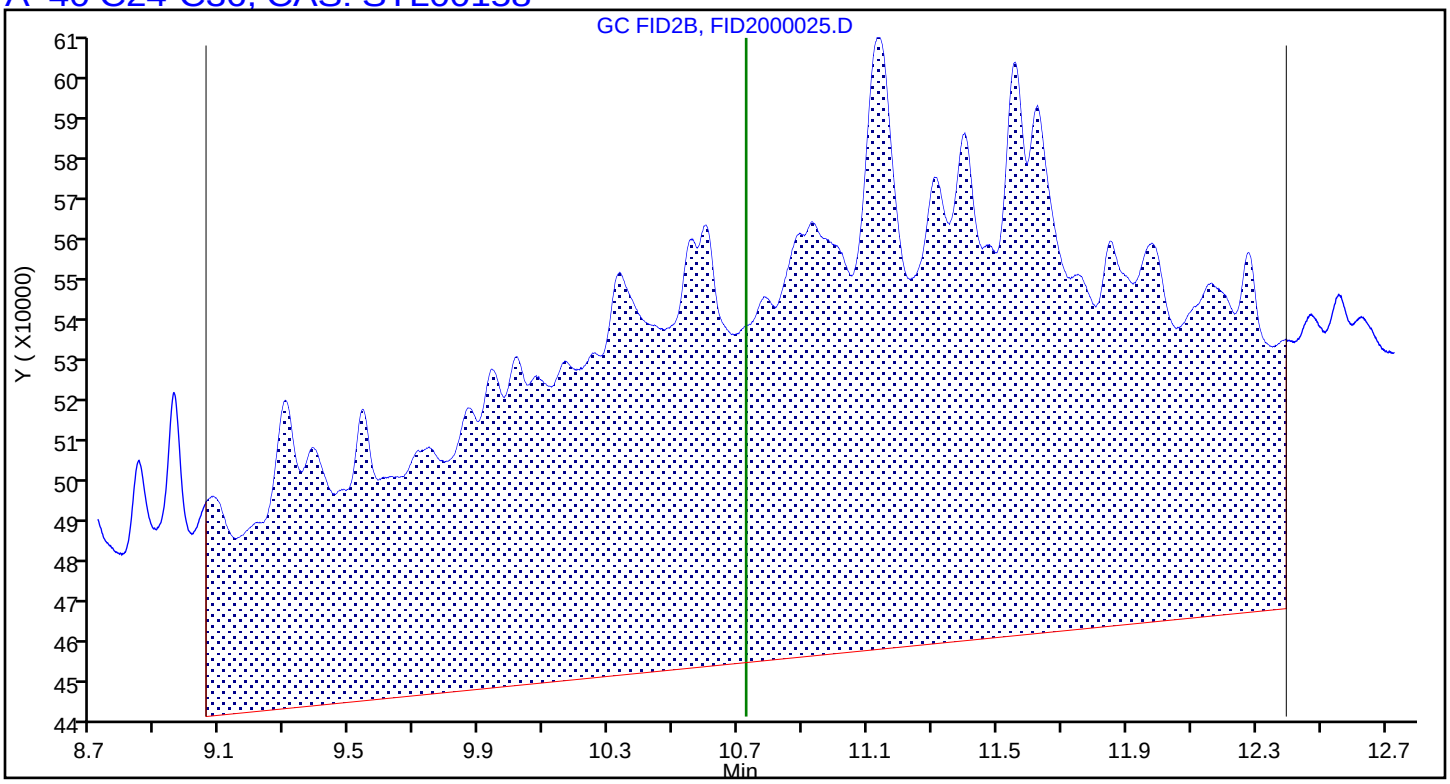


Report Date: 21-Dec-2018 11:40:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000025.D				
Injection Date:	20-Dec-2018 23:37:19	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-8-B	Lab Sample ID:	720-90412-8		
Client ID:	DG-Q3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	75	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-Q3S-3.5-4 Lab Sample ID: 720-90412-9

Matrix: Solid Lab File ID: FID2000026.D

Analysis Method: 8015B Date Collected: 12/18/2018 10:35

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.06(g) Date Analyzed: 12/21/2018 00:01

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: MXT-1 ID: 530(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257326 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	2.5	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	ND		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	93		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000026.D
Lims ID: 720-90412-E-9-B
Client ID: DG-Q3S-3.5-4
Sample Type: Client
Inject. Date: 21-Dec-2018 00:01:50 ALS Bottle#: 76 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055779-026
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:40:49 Calib Date: 21-Dec-2018 02:27:59
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000032.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:40:49

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.363			ND	
	23 n-Decane	2.226	2.207	0.019	374813	NC	
A	1 C9-C13	2.810	(1.363-4.258)		4580310	NC	
A	21 Stoddard Solvent	2.810	(1.363-4.258)		4580310	1.92	
A	57 C10-C12	2.927	(2.207-3.647)		2398493	1.13	
	24 Dodecane	3.657	3.647	0.010	101459	NC	
A	3 C9 - C17	3.836	(1.363-6.310)		7918404	2.76	M
A	60 C10-C16	4.023	(2.207-5.839)		5548711	2.17	M
A	47 C9 - C18	4.059	(1.363-6.756)		9136679	4.03	M
	26 C13	4.259	4.258	0.001	46187	NC	
A	15 Kerosene	4.271	(1.363-7.180)		10245256	4.51	M
A	25 C9-C19	4.271	(1.363-7.180)		10245256	3.55	M
$	27 n-Decanoic Acid (Surr)		4.554			ND	U
A	59 C12-C16	4.743	(3.647-5.839)		3150218	1.48	M
A	61 C10-C20	4.897	(2.207-7.587)		14468760	6.82	M
A	28 C9-C24	5.208	(1.363-9.053)		26829337	12.6	M
A	29 C9-C25	5.374	(1.363-9.385)		31872426	15.0	M
A	54 C10-C23	5.458	(2.207-8.708)		22873185	10.8	M
A	4 C10-C24	5.630	(2.207-9.053)		25232994	11.9	M
A	16 C10-C25	5.796	(2.207-9.385)		30276083	14.3	M
	45 Hexadecane	5.839	5.839	0.000	189988	NC	M
A	14 C10-C26	5.956	(2.207-9.706)		31450860	14.8	M
A	67 C12-C22	5.998	(3.647-8.350)		19312452	9.10	M
A	5 Diesel	6.260	(2.207-10.313)		39947427	18.8	M
A	12 Unknown Hydrocarbons	6.260	(2.207-10.313)		39947427	NC	M
A	32 C10-C28	6.260	(2.207-10.313)		39947427	18.8	M
A	30 C13-C22	6.304	(4.258-8.350)		18726978	8.82	M
	44 Heptadecane	6.308	6.310	-0.002	312380	NC	M
A	31 C12-C24	6.350	(3.647-9.053)		22834501	10.8	M
	49 n-Octadecane	6.757	6.756	0.001	284917	NC	M
A	9 Crude Oil Range Organics (	6.879	(1.363-12.396)		120323215	NC	M
A	11 Bunker Range Organics (C9-	6.879	(1.363-12.396)		120323215	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.879	(1.363-12.396)		120323215	52.3	M
33 C19	7.189	7.180	0.009	342740	NC	M
A 64 C13-C28	7.286	(4.258-10.313)		36963460	17.4	M
A 17 C10-C36	7.301	(2.207-12.396)		118726872	55.9	M
A 68 Crude Oil Range Organics (	7.368	(1.363-13.374)		170042657	NC	M
A 13 C9-C40	7.368	(1.363-13.374)		170042657	87.1	M
A 58 C16-C24	7.446	(5.839-9.053)		19874271	9.37	M
62 icosane	7.584	7.587	-0.003	383938	NC	M
A 6 C10-C40	7.790	(2.207-13.374)		168446314	86.3	M
$ 34 p-Terphenyl	8.042	8.041	0.001	62311867	23.1	
35 n-Docosane	8.349	8.350	-0.001	418560	NC	M
A 18 C12-C40	8.510	(3.647-13.374)		166047821	85.3	M
36 Tricosane	8.718	8.708	0.010	731043	NC	M
A 66 C13-C40	8.816	(4.258-13.374)		165462347	85.1	M
37 n-Tetracosane	9.090	9.053	0.037	1048521	NC	M
A 2 C16-C36 ORO	9.117	(5.839-12.396)		113368149	75.3	M
38 C25	9.374	9.385	-0.011	1614526	NC	M
A 19 C16-C40	9.607	(5.839-13.374)		163087591	84.1	M
46 n-Hexacosane	9.732	9.706	0.026	2240393	NC	M
A 20 C19-C36	9.788	(7.180-12.396)		86031270	NC	
A 55 C23-C32	10.062	(8.708-11.416)		62367375	62.4	M
39 n-Octacosane	10.360	10.313	0.047	6816060	NC	M
65 C29	10.600	10.603	-0.003	6826420	NC	M
A 40 C24-C36	10.724	(9.053-12.396)		91235577	71.0	
A 7 Motor Oil	10.724	(9.053-12.396)		91235577	71.0	
A 10 C22-C40	10.862	(8.350-13.374)		132293577	73.9	
A 50 C25-C36	10.891	(9.385-12.396)		86747289	72.2	
A 41 C23-C40	11.041	(8.708-13.374)		133858535	76.5	
A 8 C24-C40	11.214	(9.053-13.374)		134208491	78.6	
56 Dotriacontane	11.414	11.416	-0.002	9140353	NC	M
A 51 C28-C40	11.844	(10.313-13.374)		122549281	90.9	
A 63 C29-C40	11.988	(10.603-13.374)		115184570	93.3	
42 n-Hexatriacontane	12.477	12.396	0.081	10165746	NC	M
43 C40	13.473	13.374	0.099	35227006	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

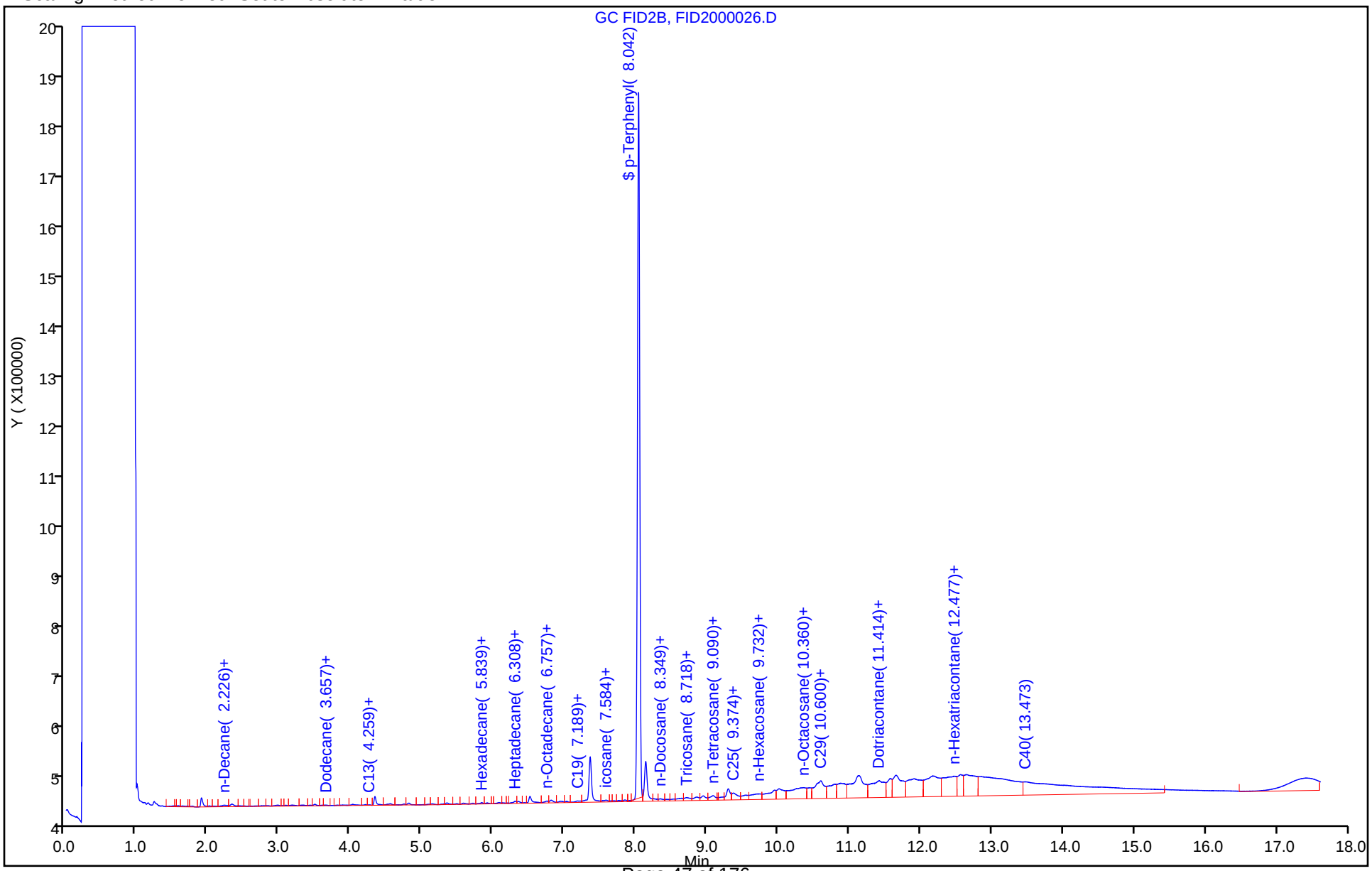
Report Date: 21-Dec-2018 11:40:50 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000026.D

Injection Date:	21-Dec-2018 00:01:50	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90412-E-9-B	Lab Sample ID:	720-90412-9	Worklist Smp#:	26
Client ID:	DG-Q3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	76
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000026.D
Lims ID: 720-90412-E-9-B
Client ID: DG-Q3S-3.5-4
Sample Type: Client
Inject. Date: 21-Dec-2018 00:01:50 ALS Bottle#: 76 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055779-026
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Dec-2018 11:40:49 Calib Date: 21-Dec-2018 02:27:59
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000032.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 11:40:49

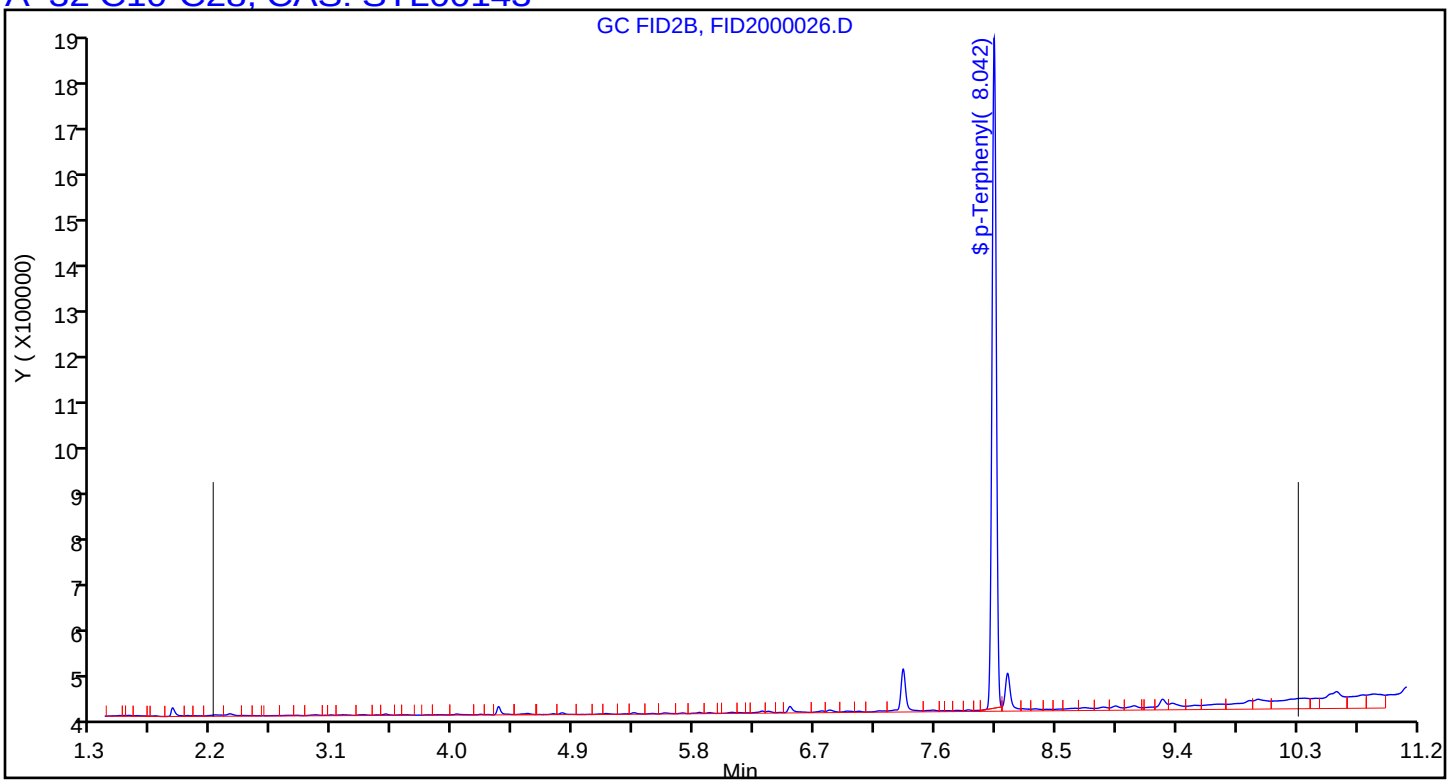
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.1	92.53

Report Date: 21-Dec-2018 11:40:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000026.D				
Injection Date:	21-Dec-2018 00:01:50	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-9-B	Lab Sample ID:	720-90412-9		
Client ID:	DG-Q3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	76	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

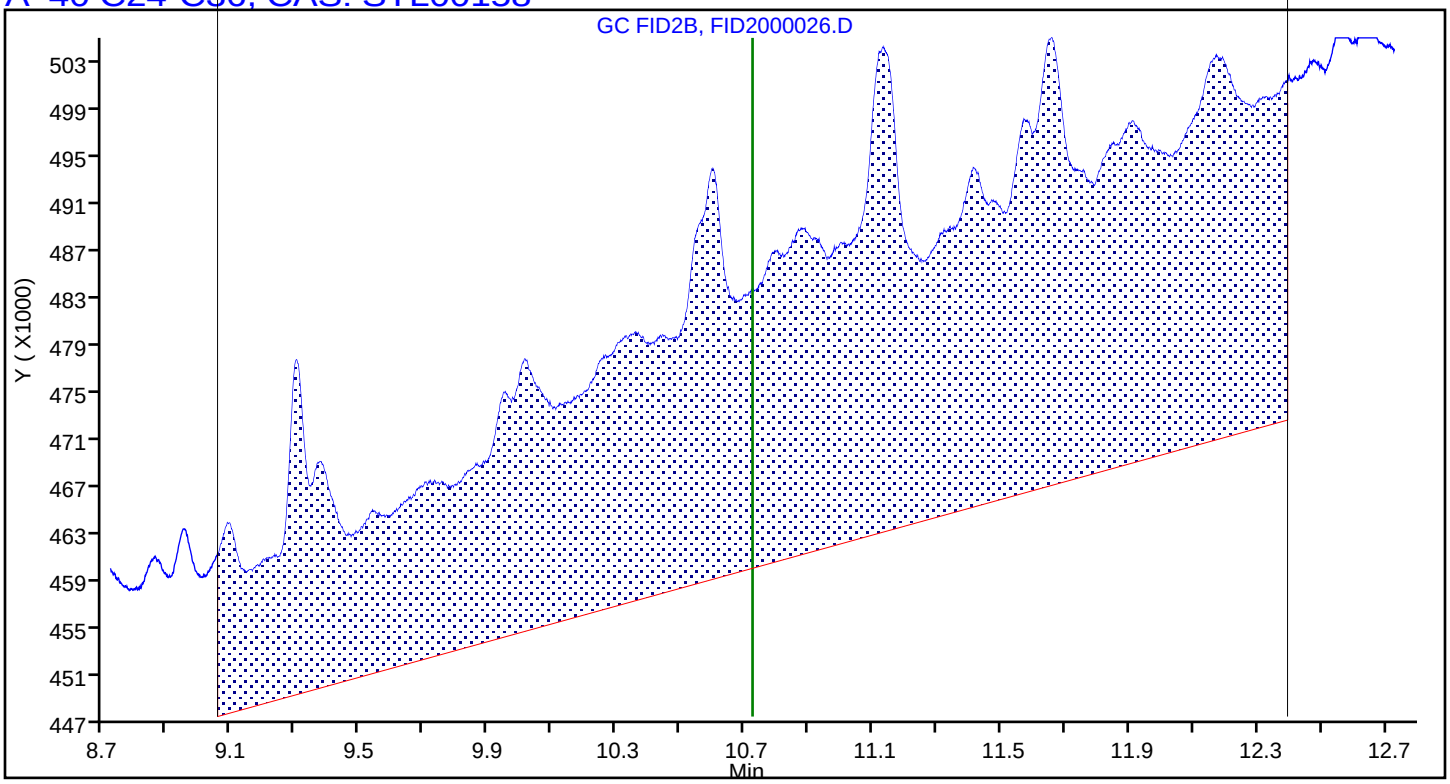


Report Date: 21-Dec-2018 11:40:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000026.D				
Injection Date:	21-Dec-2018 00:01:50	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-9-B	Lab Sample ID:	720-90412-9		
Client ID:	DG-Q3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	76	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

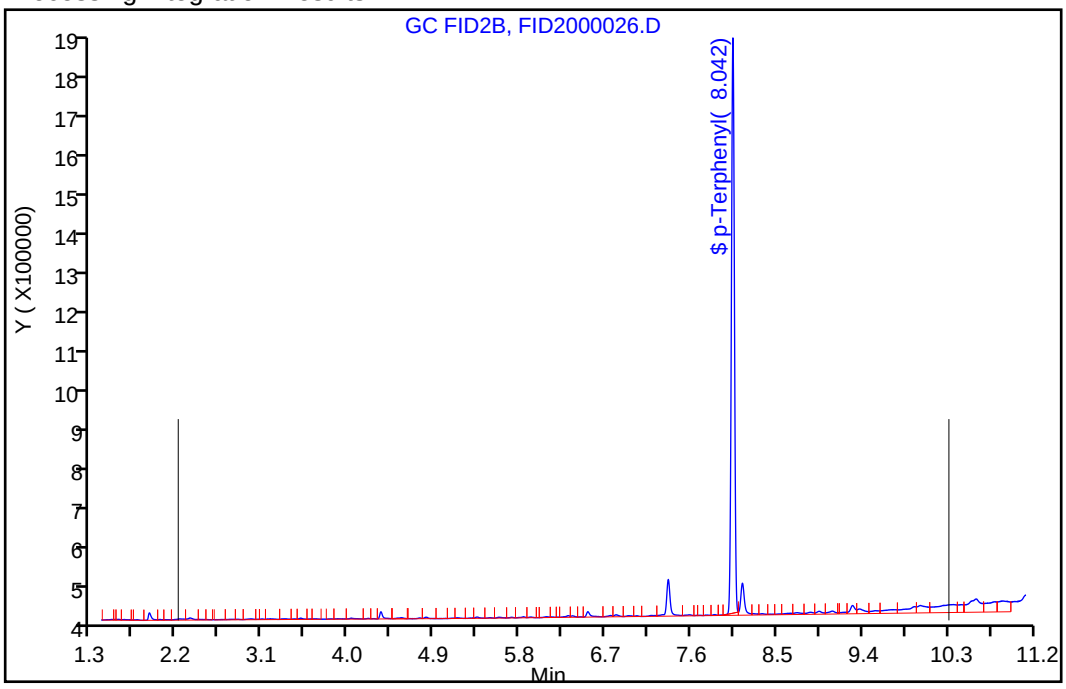
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55779.b\FID2000026.D				
Injection Date:	21-Dec-2018 00:01:50	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-9-B	Lab Sample ID:	720-90412-9		
Client ID:	DG-Q3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	76	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

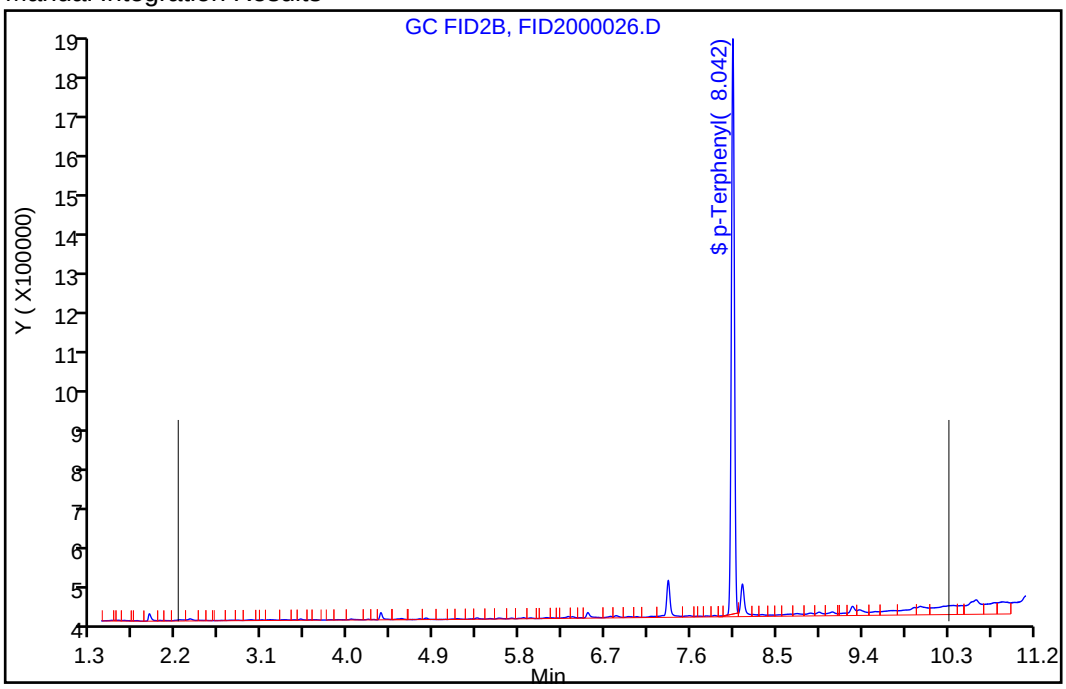
Processing Integration Results

RT: 6.26
Response: 32852400
Amount: 15.481195



Manual Integration Results

RT: 6.26
Response: 39947427
Amount: 18.824618



Reviewer: luj, 21-Dec-2018 11:40:41

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-S3S-0.5-1 Lab Sample ID: 720-90412-10

Matrix: Solid Lab File ID: 5b122018_030.d

Analysis Method: 8015B Date Collected: 12/18/2018 11:15

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.09(g) Date Analyzed: 12/21/2018 03:21

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 320(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257324 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	90	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	230		50	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	74		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_030.d
Lims ID: 720-90412-E-10-B
Client ID: DG-S3S-0.5-1
Sample Type: Client
Inject. Date: 21-Dec-2018 03:21:01 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 108 Name: 720-0055777-030
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\DRO5B.m
Limit Group: DRO
Last Update: 21-Dec-2018 12:37:58 Calib Date: 20-Dec-2018 09:01:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 12:37:58

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.750	2.698	0.052	629	NC	
	23 n-Decane	3.942	3.915	0.027	997	NC	
A	21 Stoddard Solvent	4.655	(2.698-6.611)		48270	4.25	
A	1 C9-C13	4.655	(2.698-6.611)		48270	3.81	
A	57 C10-C12	4.864	(3.915-5.812)		23475	2.39	
	24 Dodecane	5.805	5.812	-0.007	3072	NC	
A	3 C9 - C17	6.007	(2.698-9.316)		252083	17.8	
A	47 C9 - C18	6.297	(2.698-9.895)		423284	37.7	
A	60 C10-C16	6.302	(3.915-8.688)		156491	12.5	
A	25 C9-C19	6.575	(2.698-10.452)		588088	41.5	
A	15 Kerosene	6.575	(2.698-10.452)		588088	52.3	
	26 C13	6.563	6.611	-0.048	5303	NC	
$	27 n-Decanoic Acid (Surr)		7.215			ND	U
A	59 C12-C16	7.250	(5.812-8.688)		136088	13.9	
A	62 C10-C20	7.451	(3.915-10.986)		984858	100.3	
A	28 C9-C24	7.804	(2.698-12.910)		3339427	340.1	
A	29 C9-C25	8.022	(2.698-13.346)		4092890	416.9	
A	54 C10-C23	8.187	(3.915-12.458)		2558400	260.6	
A	4 C10-C24	8.413	(3.915-12.910)		3330238	339.2	
A	16 C10-C25	8.630	(3.915-13.346)		4083701	415.9	
	45 Hexadecane	8.689	8.688	0.001	6788	NC	
A	14 C10-C26	8.840	(3.915-13.765)		4780471	486.9	
A	67 C12-C22	8.900	(5.812-11.988)		1998086	203.5	
A	12 Unknown Hydrocarbons	9.238	(3.915-14.561)		6689394	NC	
A	32 C10-C28	9.238	(3.915-14.561)		6689394	681.3	
A	5 Diesel	9.238	(3.915-14.561)		6689394	681.3	
A	30 C13-C22	9.300	(6.611-11.988)		1984711	202.1	
	44 Heptadecane	9.338	9.316	0.022	48257	NC	
A	31 C12-C24	9.361	(5.812-12.910)		3309835	337.1	
	49 n-Octadecane	9.851	9.895	-0.044	14113	NC	
A	11 Bunker Range Organics (C9-	9.991	(2.698-17.283)		17766222	NC	
A	9 Crude Oil Range Organics (	9.991	(2.698-17.283)		14618706	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.991	(2.698-17.283)		14618706	1345.6	
33 C19	10.460	10.452	0.008	123029	NC	
A 64 C13-C28	10.586	(6.611-14.561)		6655616	677.9	
A 17 C10-C36	10.599	(3.915-17.283)		17757033	1808.6	
A 68 Crude Oil Range Organics (	10.781	(2.698-18.864)		16877455	NC	
A 13 C9-C40	10.781	(2.698-18.864)		16877455	1669.3	
A 58 C16-C24	10.799	(8.688-12.910)		3173747	323.3	
61 icosane		10.986			ND	
A 6 C10-C40	11.389	(3.915-18.864)		16867846	1670.5	
$ 34 p-Terphenyl	11.953	11.955	-0.002	233479	18.5	
35 n-Docosane		11.988			ND	
A 18 C12-C40	12.338	(5.812-18.864)		16832151	1672.2	
36 Tricosane	12.461	12.458	0.003	358567	NC	
A 66 C13-C40	12.737	(6.611-18.864)		16449010	1658.5	
37 n-Tetracosane	12.912	12.910	0.002	267702	NC	
A 2 C16-C36 ORO	12.986	(8.688-17.283)		11602388	1572.5	
38 C25	13.353	13.346	0.007	223852	NC	
46 n-Hexacosane	13.767	13.765	0.002	235196	NC	
A 19 C16-C40	13.776	(8.688-18.864)		16641299	1662.6	
A 20 C19-C36	13.867	(10.452-17.283)		12623137	1549.0	
A 55 C23-C32	14.230	(12.458-16.002)		8063374	1872.0	
39 n-Octacosane	14.501	14.561	-0.060	355356	NC	
65 C29	14.957	14.939	0.018	384214	NC	
A 7 Motor Oil	15.097	(12.910-17.283)		10510100	1677.1	
A 40 C24-C36	15.097	(12.910-17.283)		10668317	1702.4	M
A 50 C25-C36	15.314	(13.346-17.283)		9827451	1658.2	
A 10 C22-C40	15.426	(11.988-18.864)		13665090	1541.7	
A 41 C23-C40	15.661	(12.458-18.864)		13270315	1533.0	
A 8 C24-C40	15.887	(12.910-18.864)		12624990	1508.8	
56 Dotriacontane	15.957	16.002	-0.045	534041	NC	
A 51 C28-C40	16.712	(14.561-18.864)		9452501	1420.8	
A 63 C29-C40	16.901	(14.939-18.864)		8371233	1373.1	
42 n-Hexatriacontane		17.283			ND	
43 C40		18.864			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

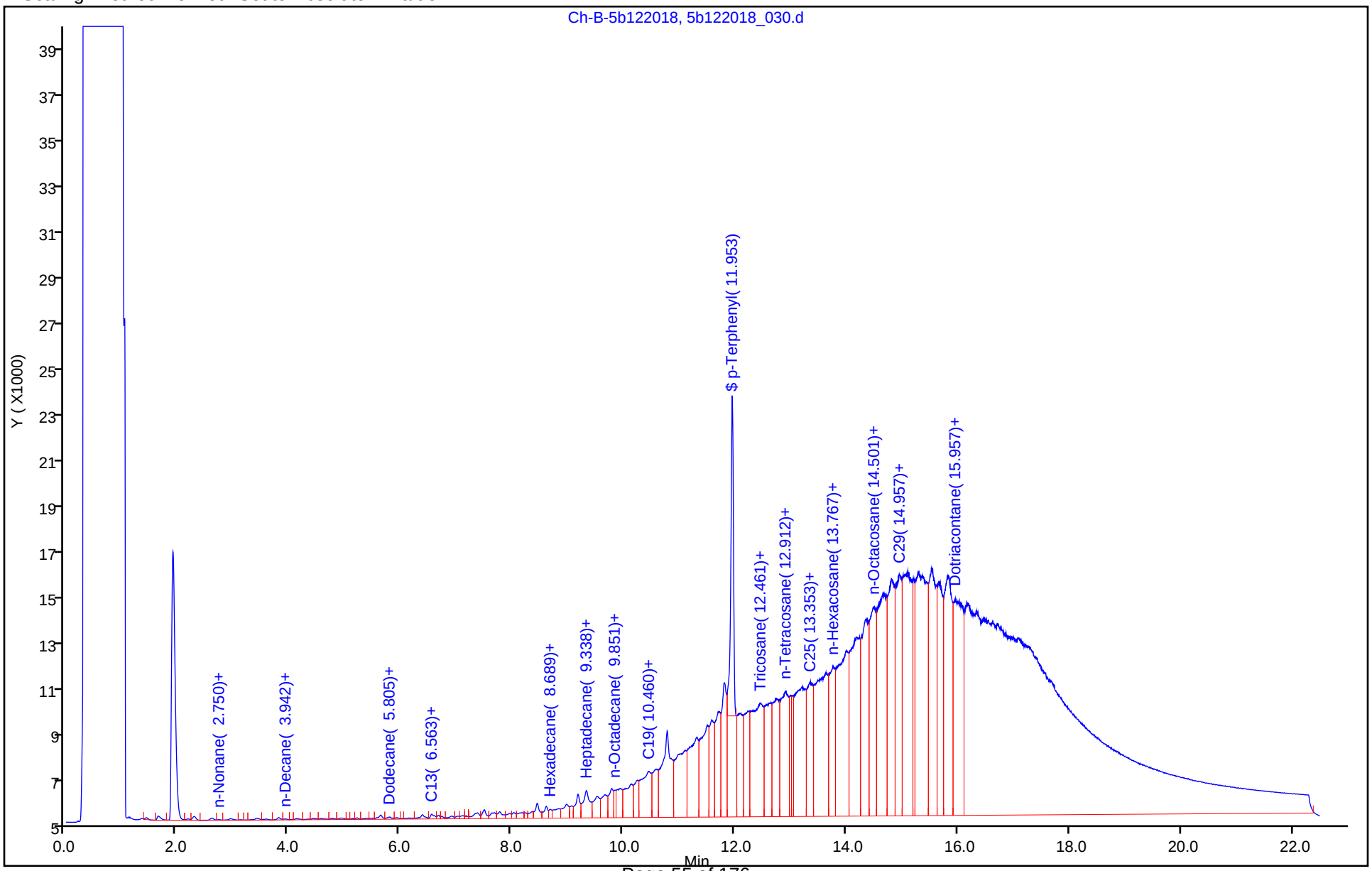
Report Date: 21-Dec-2018 12:37:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_030.d

Injection Date:	21-Dec-2018 03:21:01	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-10-B	Lab Sample ID:	720-90412-10	Worklist Smp#:	30
Client ID:	DG-S3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_030.d				
Lims ID:	720-90412-E-10-B				
Client ID:	DG-S3S-0.5-1				
Sample Type:	Client				
Inject. Date:	21-Dec-2018 03:21:01	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 108 Name: 720-0055777-030				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	21-Dec-2018 12:37:58	Calib Date:	20-Dec-2018 09:01:42		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				

First Level Reviewer: luj Date: 21-Dec-2018 12:37:58

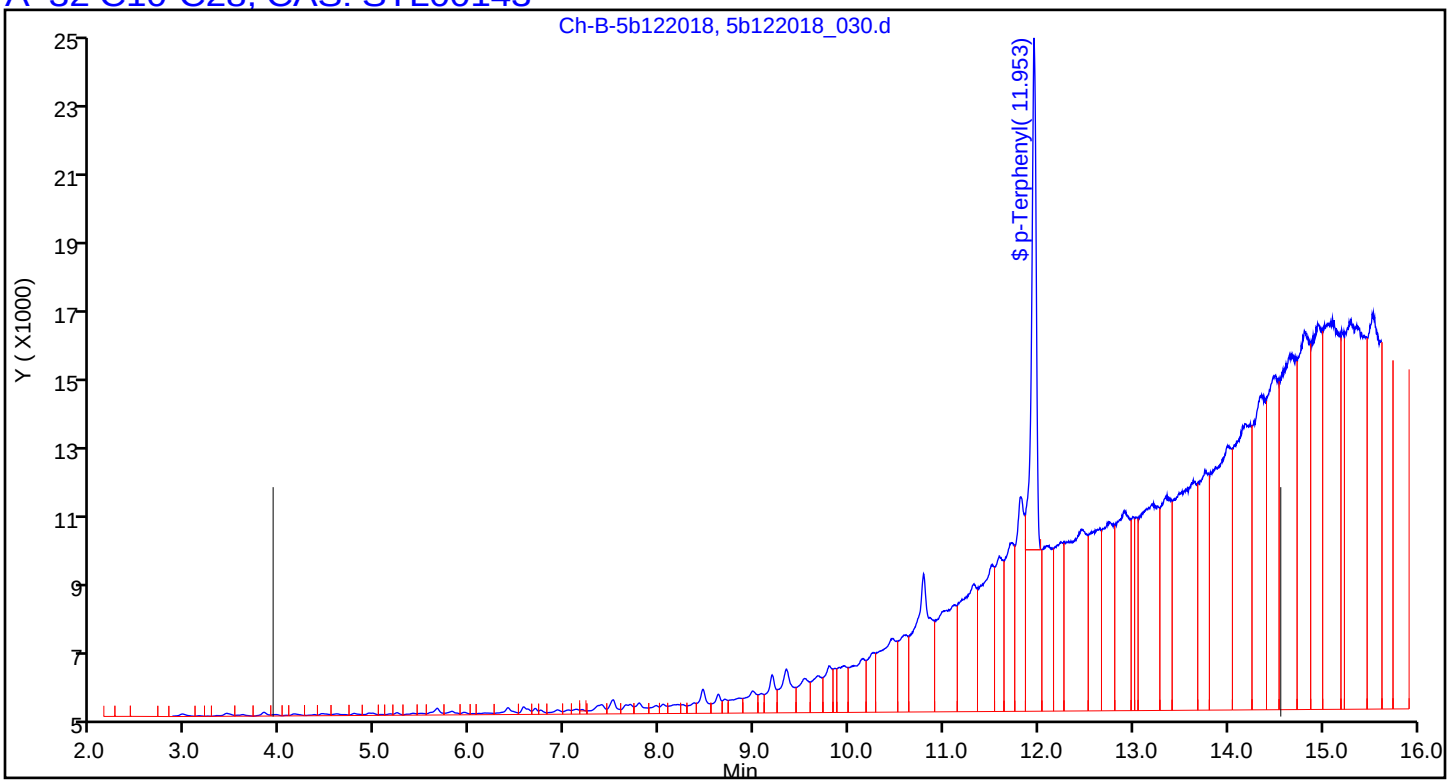
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	18.5	74.17

Report Date: 21-Dec-2018 12:37:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_030.d				
Injection Date:	21-Dec-2018 03:21:01	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-10-B	Lab Sample ID:	720-90412-10		
Client ID:	DG-S3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

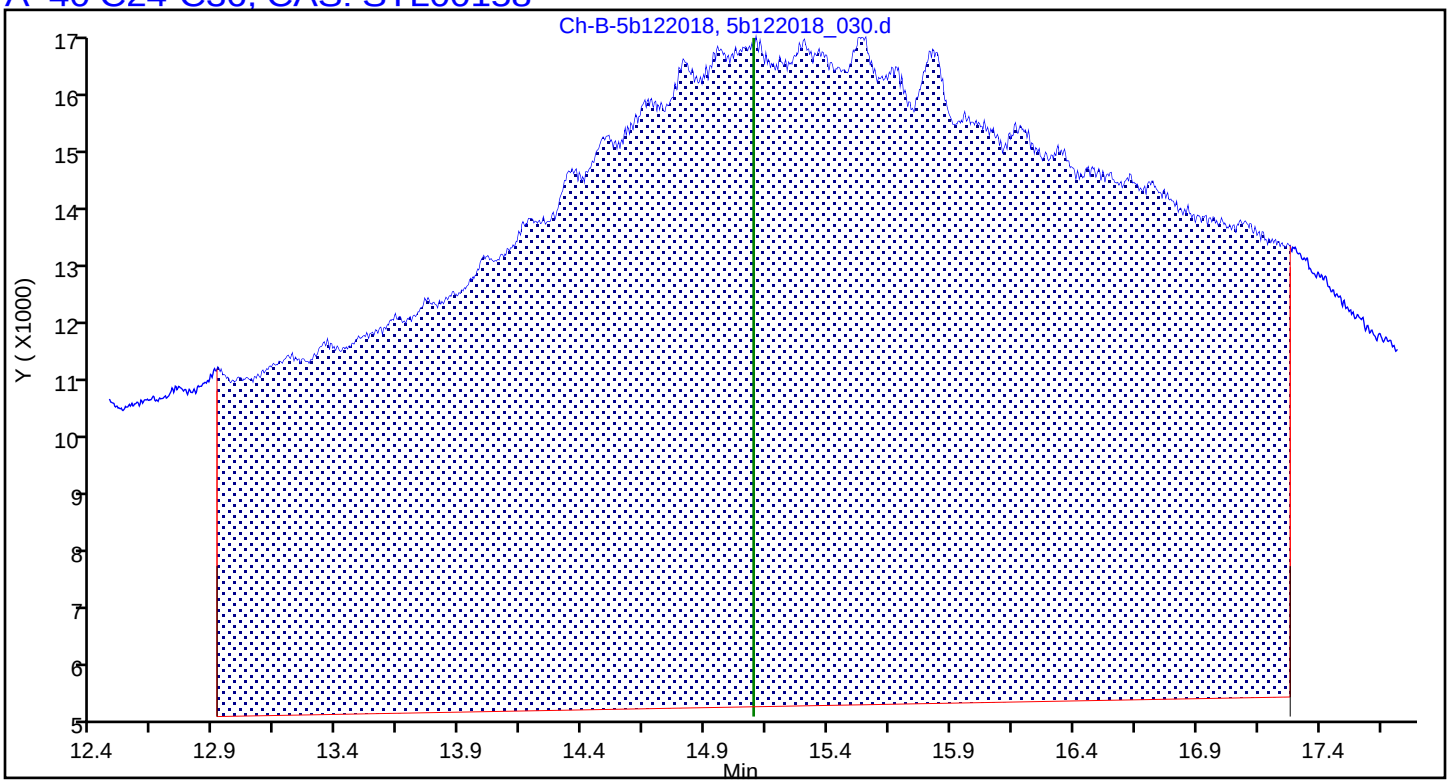


Report Date: 21-Dec-2018 12:38:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_030.d				
Injection Date:	21-Dec-2018 03:21:01	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-10-B	Lab Sample ID:	720-90412-10		
Client ID:	DG-S3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

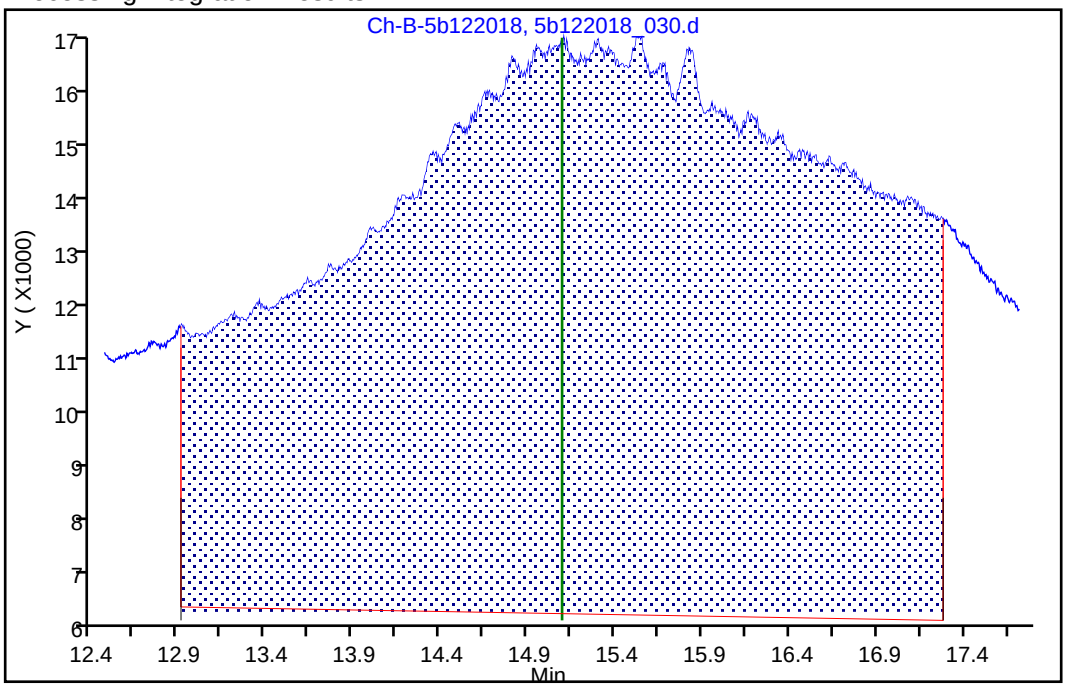
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_030.d				
Injection Date:	21-Dec-2018 03:21:01	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-10-B	Lab Sample ID:	720-90412-10		
Client ID:	DG-S3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.097, CAS: STL00158

Signal: 1

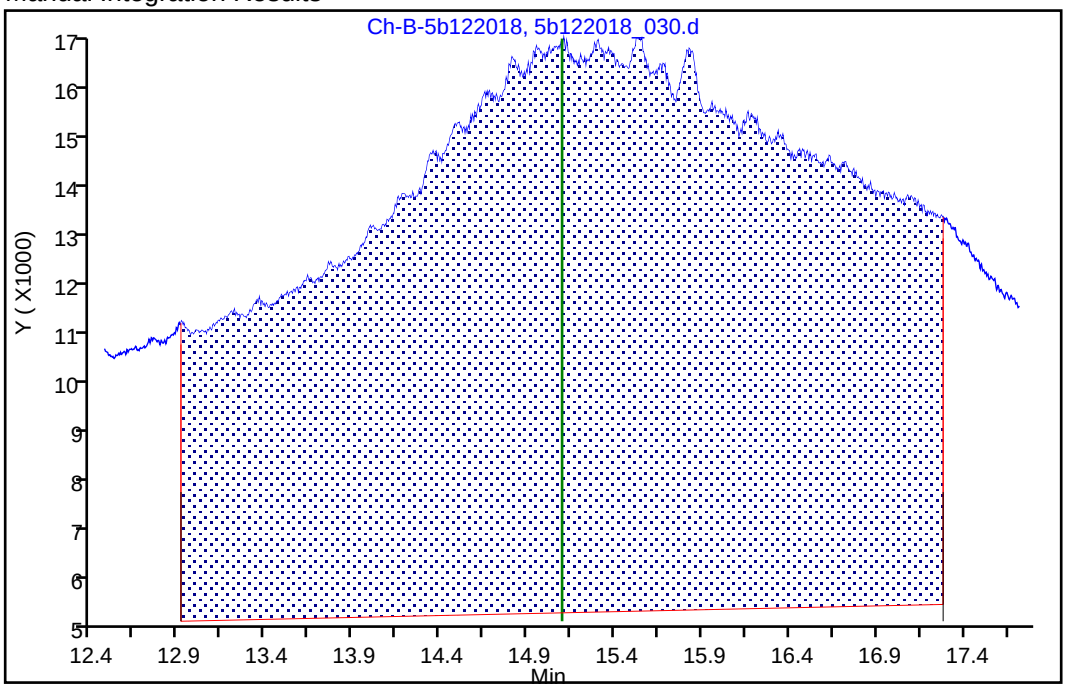
Processing Integration Results

RT: 15.10
Response: 10510100
Amount: 1677.1367



Manual Integration Results

RT: 15.10
Response: 10668317
Amount: 1702.3840



Reviewer: luj, 21-Dec-2018 12:37:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-S3S-3.5-4 Lab Sample ID: 720-90412-11

Matrix: Solid Lab File ID: FID1000036.D

Analysis Method: 8015B Date Collected: 12/18/2018 11:15

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.08(g) Date Analyzed: 12/21/2018 04:05

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: MXT-1 ID: 530(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257325 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	740	B	50	19
STL00158	Motor Oil Range Organics [C24-C36]	4700		1200	250

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	0	X D	40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000036.D
Lims ID: 720-90412-E-11-B
Client ID: DG-S3S-3.5-4
Sample Type: Client
Inject. Date: 21-Dec-2018 04:05:15 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 720-0055778-036
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\DRO6_A.m
Limit Group: DRO
Last Update: 21-Dec-2018 12:01:41 Calib Date: 20-Dec-2018 08:50:52
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 12:01:41

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.275	1.212	0.062	29729	NC	
	23 n-Decane	2.155	2.089	0.066	323971	NC	
A	21 Stoddard Solvent	2.700	(1.212-4.189)		2402097	1.76	
A	1 C9-C13	2.700	(1.212-4.189)		2402097	NC	
A	57 C10-C12	2.829	(2.089-3.569)		1702278	1.33	
	24 Dodecane	3.539	3.569	-0.030	134162	NC	
A	3 C9 - C17	3.738	(1.212-6.264)		4522268	2.96	M
A	60 C10-C16	3.939	(2.089-5.788)		3441758	2.51	M
A	47 C9 - C18	3.963	(1.212-6.714)		6246610	5.64	M
A	25 C9-C19	4.178	(1.212-7.144)		13023597	8.49	M
A	15 Kerosene	4.178	(1.212-7.144)		13023597	11.7	M
	26 C13	4.146	4.189	-0.043	137042	NC	
$	27 n-Decanoic Acid (Surr)		4.550			ND	U
A	59 C12-C16	4.679	(3.569-5.788)		1873642	1.47	M
A	62 C10-C20	4.822	(2.089-7.554)		18005202	14.1	M
A	28 C9-C24	5.125	(1.212-9.038)		90442125	70.9	M
A	29 C9-C25	5.293	(1.212-9.374)		124632840	97.7	M
A	54 C10-C23	5.389	(2.089-8.689)		69837953	54.7	M
A	4 C10-C24	5.563	(2.089-9.038)		90173509	70.7	M
A	16 C10-C25	5.732	(2.089-9.374)		124364224	97.5	M
	45 Hexadecane	5.797	5.788	0.009	167693	NC	M
A	14 C10-C26	5.894	(2.089-9.699)		124364224	97.5	M
A	67 C12-C22	5.947	(3.569-8.325)		46018205	36.1	M
A	5 Diesel	6.203	(2.089-10.317)		285839221	224.1	M
A	12 Unknown Hydrocarbons	6.203	(2.089-10.317)		285839221	NC	M
A	32 C10-C28	6.203	(2.089-10.317)		285839221	224.1	M
A	30 C13-C22	6.257	(4.189-8.325)		45589882	35.7	M
	44 Heptadecane	6.285	6.264	0.021	690713	NC	M
A	31 C12-C24	6.303	(3.569-9.038)		88605393	69.5	M
	51 n-Octadecane		6.714			ND	
A	52 Mineral oil	6.824	(1.212-12.435)		1092455552	NC	M
A	11 Bunker Range Organics (C9-	6.824	(1.212-12.435)		1092455552	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.824	(1.212-12.435)		1092455552	NC	M
33 C19	7.137	7.144	-0.007	6776987	NC	M
A 64 C13-C28	7.253	(4.189-10.317)		283842782	222.5	M
A 17 C10-C36	7.262	(2.089-12.435)		1092186936	856.2	M
A 13 C9-C40	7.317	(1.212-13.422)		2223302921	2004.4	M
A 68 Crude Oil Range Organics (	7.317	(1.212-13.422)		2223302921	NC	M
A 58 C16-C24	7.413	(5.788-9.038)		86731751	68.0	M
61 icosane	7.562	7.554	0.008	3465626	NC	M
A 6 C10-C40	7.756	(2.089-13.422)		2223034305	2008.0	M
$ 34 p-Terphenyl		8.007			ND	U
35 n-Docosane	8.392	8.325	0.067	7103358	NC	M
A 18 C12-C40	8.495	(3.569-13.422)		2221466189	2067.0	M
36 Tricosane	8.756	8.689	0.067	6541971	NC	M
A 66 C13-C40	8.806	(4.189-13.422)		2221037866	2097.5	M
37 n-Tetracosane	9.042	9.038	0.004	8638798	NC	M
A 2 C16-C36 ORO	9.112	(5.788-12.435)		1142874749	1321.5	
38 C25	9.326	9.374	-0.048	25551917	NC	M
A 19 C16-C40	9.605	(5.788-13.422)		2219592547	2136.3	M
46 n-Hexacosane		9.699			ND	
A 20 C19-C36	9.790	(7.144-12.435)		1131558827	1096.5	
A 55 C23-C32	10.063	(8.689-11.437)		671948505	1216.9	M
39 n-Octacosane	10.256	10.317	-0.061	33965260	NC	M
65 C29	10.630	10.610	0.020	30505986	NC	M
A 7 Motor Oil	10.736	(9.038-12.435)		817246838	1149.6	
A 40 C24-C36	10.736	(9.038-12.435)		1003403460	1411.5	M
A 10 C22-C40	10.874	(8.325-13.422)		1200351694	1216.5	
A 49 C25-C36	10.905	(9.374-12.435)		967822712	1387.5	M
A 41 C23-C40	11.055	(8.689-13.422)		2168344626	2169.4	M
A 8 C24-C40	11.230	(9.038-13.422)		2132860796	2258.5	M
56 Dotriacontane	11.399	11.437	-0.038	46968429	NC	M
A 50 C28-C40	11.869	(10.317-13.422)		1937195084	2643.0	M
A 63 C29-C40	12.016	(10.610-13.422)		1846188127	2737.5	M
42 n-Hexatriacontane	12.349	12.435	-0.086	199365044	NC	M
43 C40		13.422			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

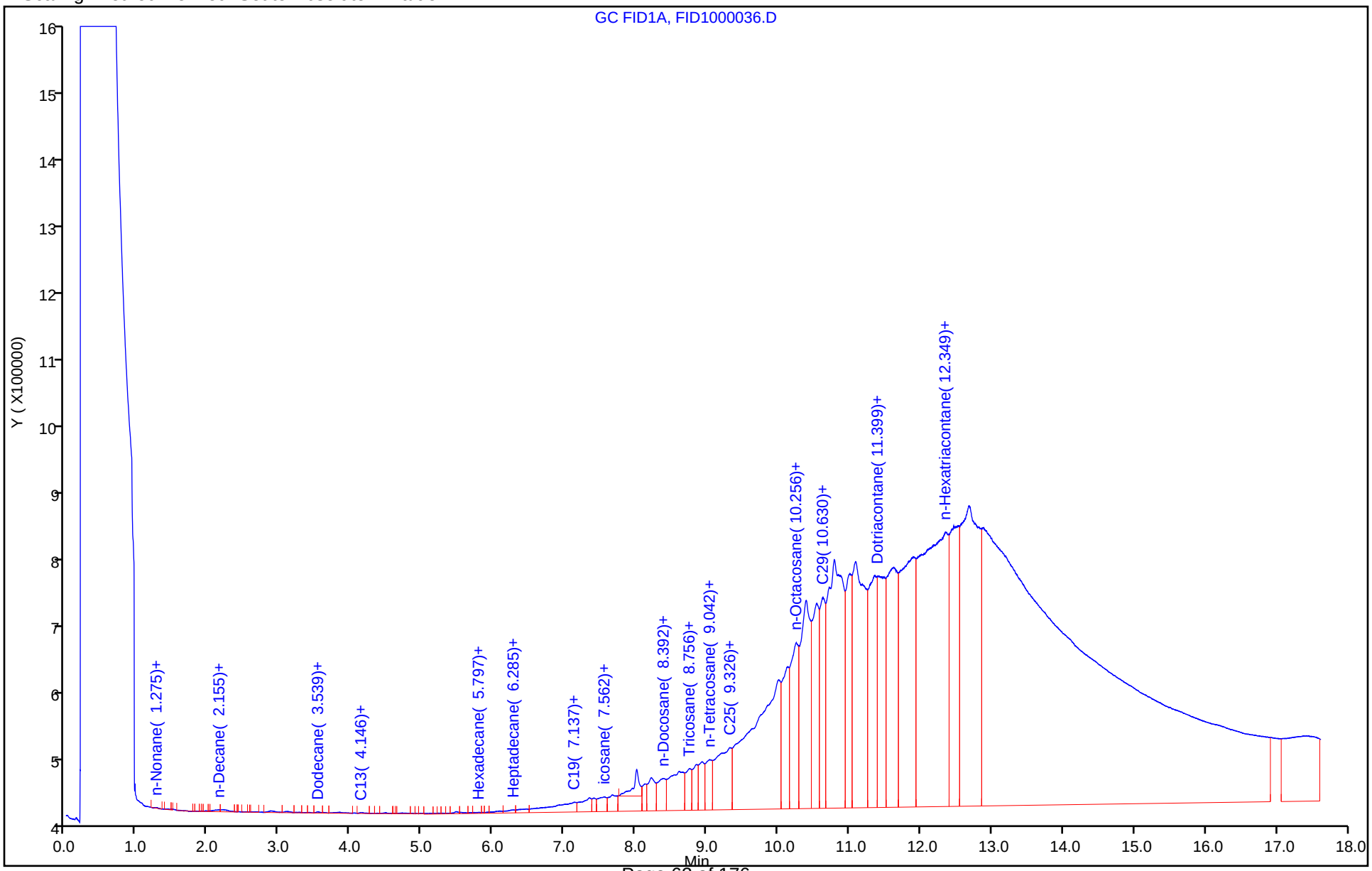
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000036.D

Injection Date:	21-Dec-2018 04:05:15	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90412-E-11-B	Lab Sample ID:	720-90412-11	Worklist Smp#:	36
Client ID:	DG-S3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	36
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

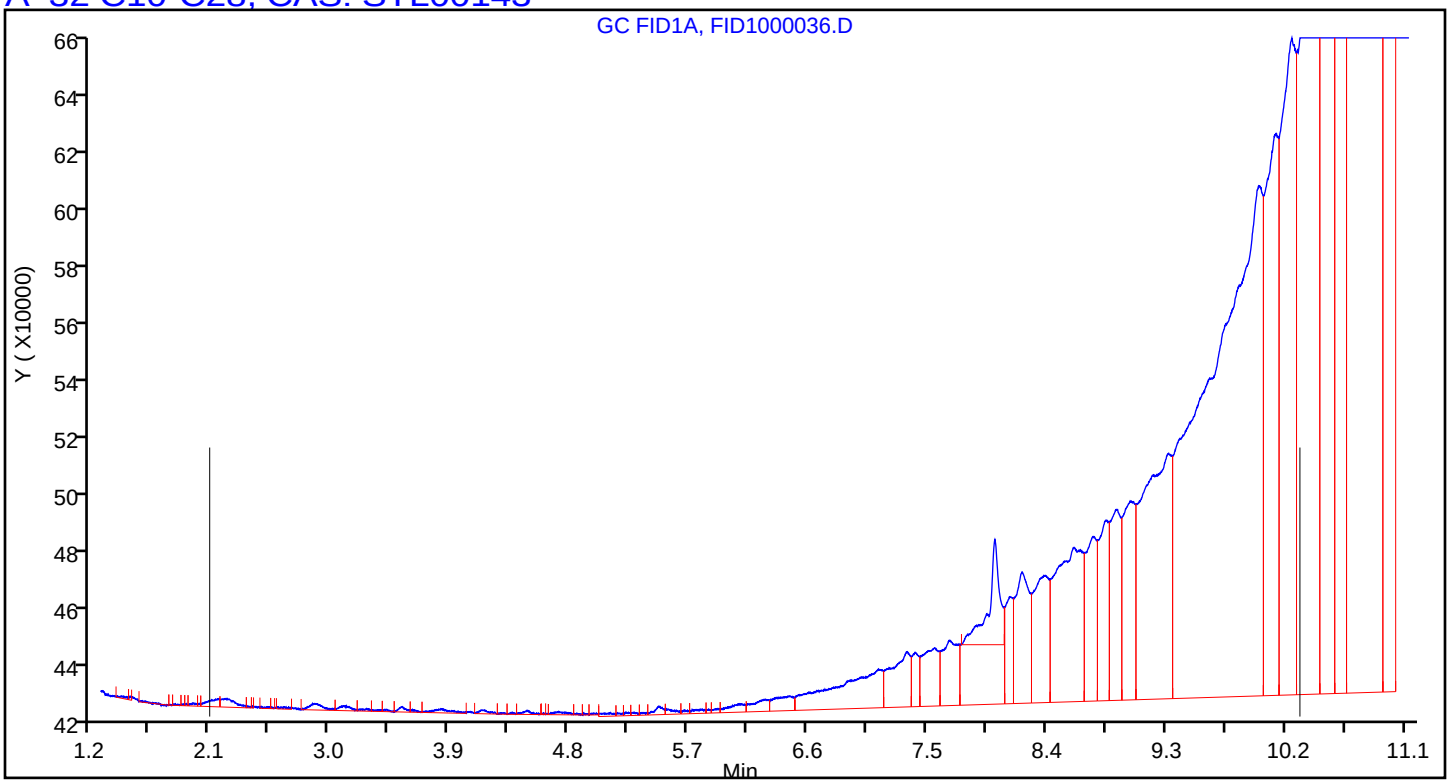


Report Date: 21-Dec-2018 12:01:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

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Injection Date:	21-Dec-2018 04:05:15	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-11-B	Lab Sample ID:	720-90412-11		
Client ID:	DG-S3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143



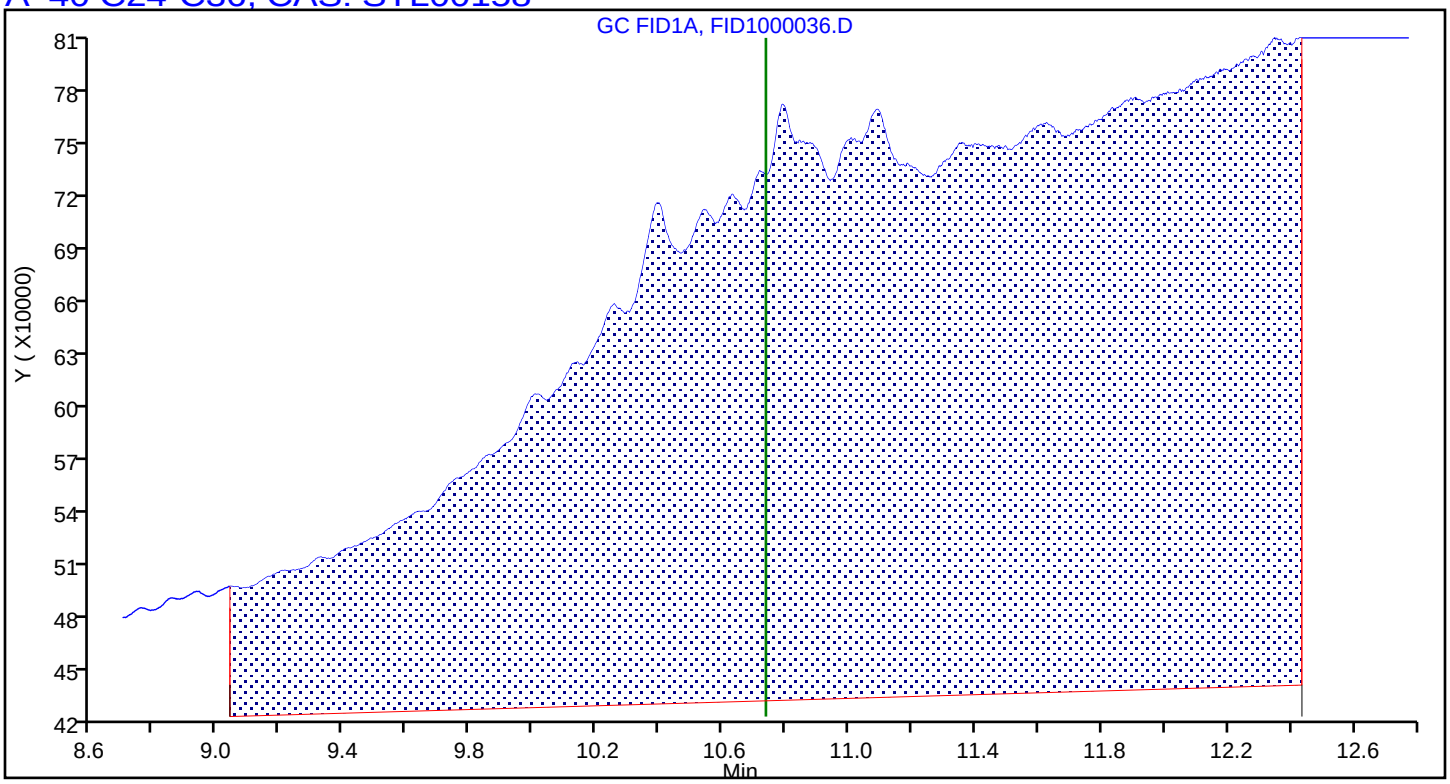
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000036.D

Injection Date:	21-Dec-2018 04:05:15	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-11-B	Lab Sample ID:	720-90412-11		
Client ID:	DG-S3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

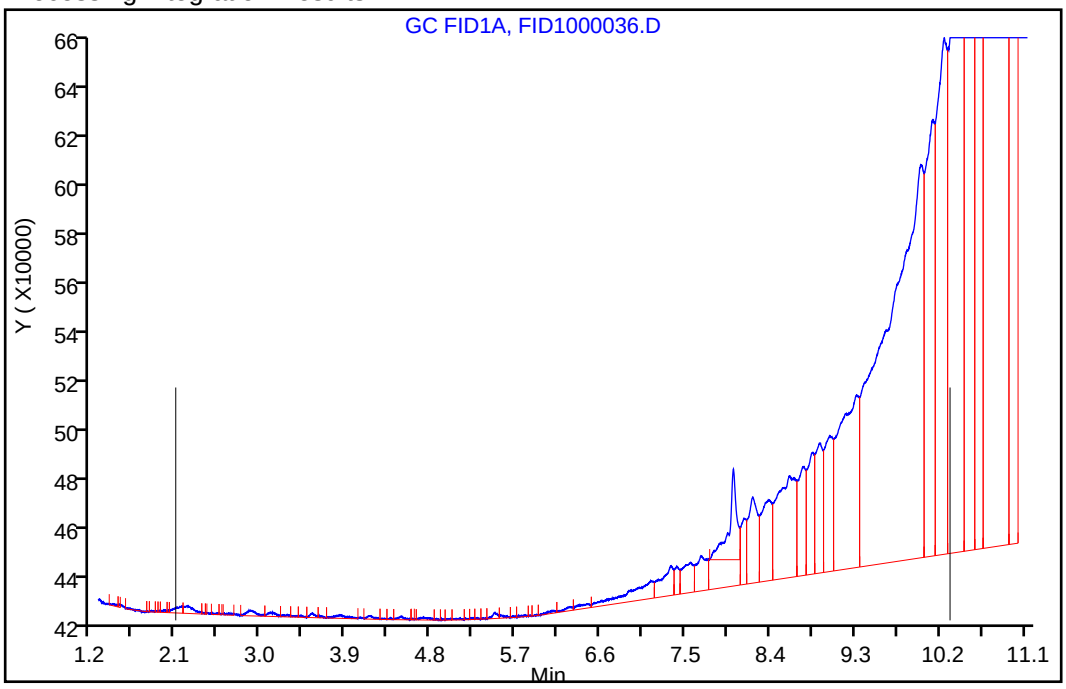
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Injection Date:	21-Dec-2018 04:05:15	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-11-B	Lab Sample ID:	720-90412-11		
Client ID:	DG-S3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.203, CAS: STL00143

Signal: 1

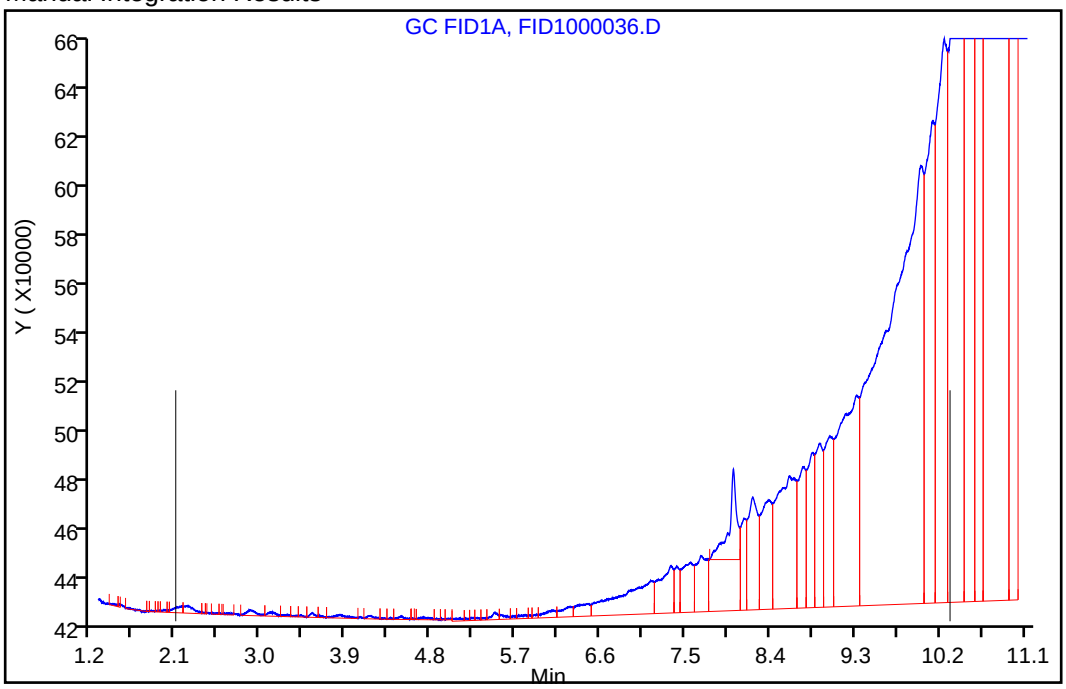
Processing Integration Results

RT: 6.20
Response: 225337961
Amount: 176.6505



Manual Integration Results

RT: 6.20
Response: 285839221
Amount: 224.0796



Reviewer: luj, 21-Dec-2018 12:01:34

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

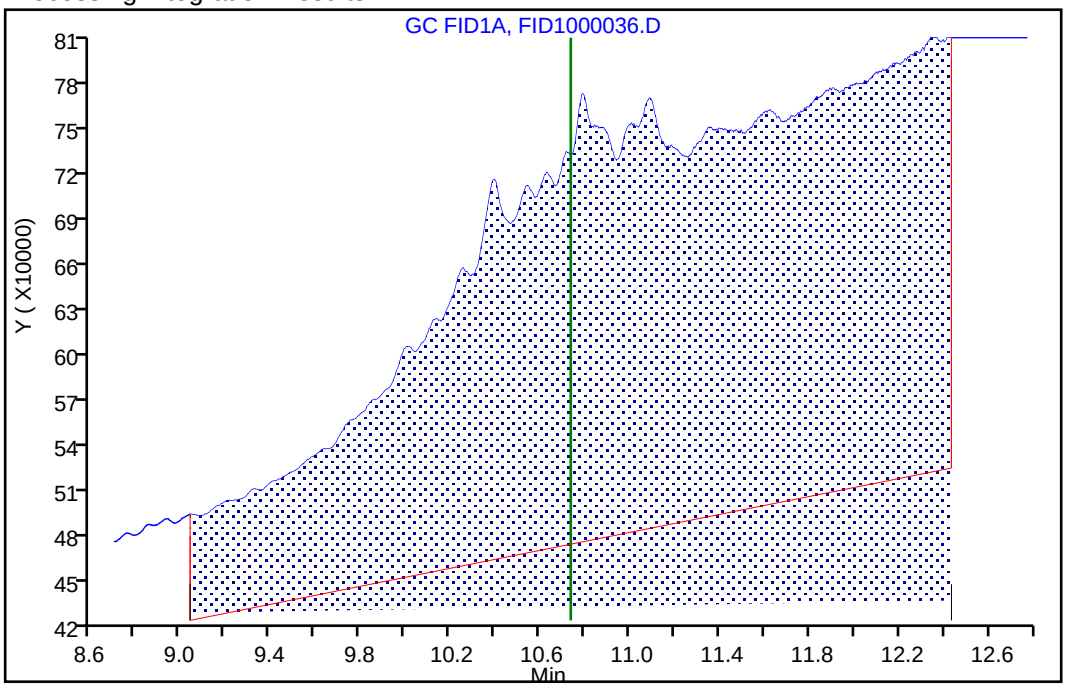
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000036.D				
Injection Date:	21-Dec-2018 04:05:15	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-11-B	Lab Sample ID:	720-90412-11		
Client ID:	DG-S3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.736, CAS: STL00158

Signal: 1

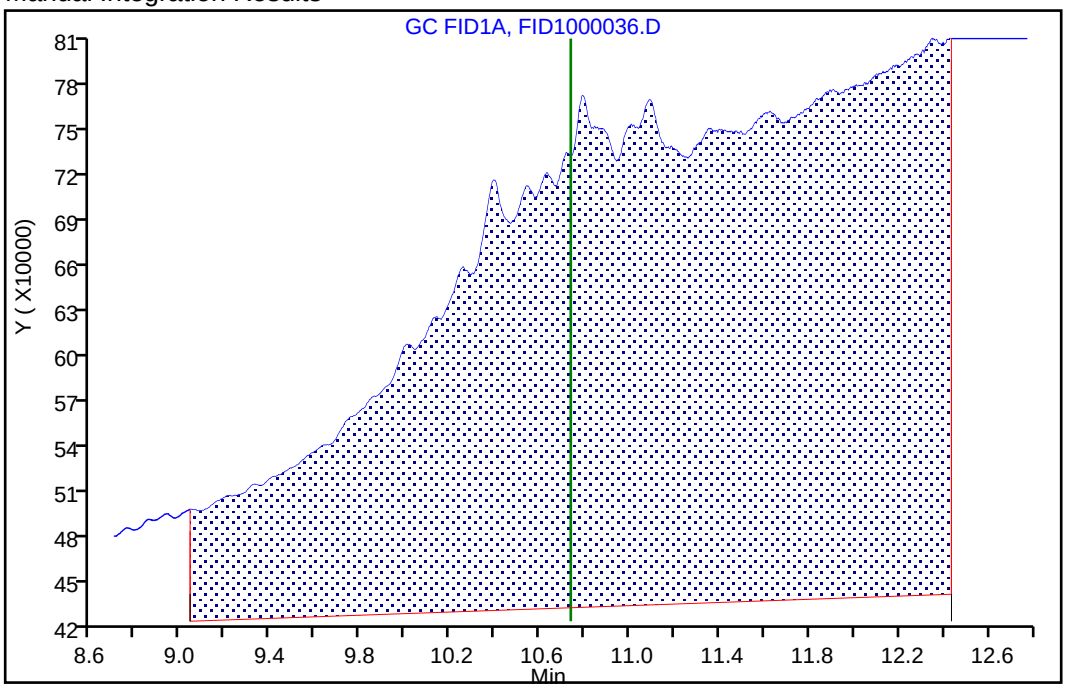
Processing Integration Results

RT: 10.74
Response: 817246838
Amount: 1149.6216



Manual Integration Results

RT: 10.74
Response: 1003403460
Amount: 1411.4882



Reviewer: luj, 21-Dec-2018 12:01:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

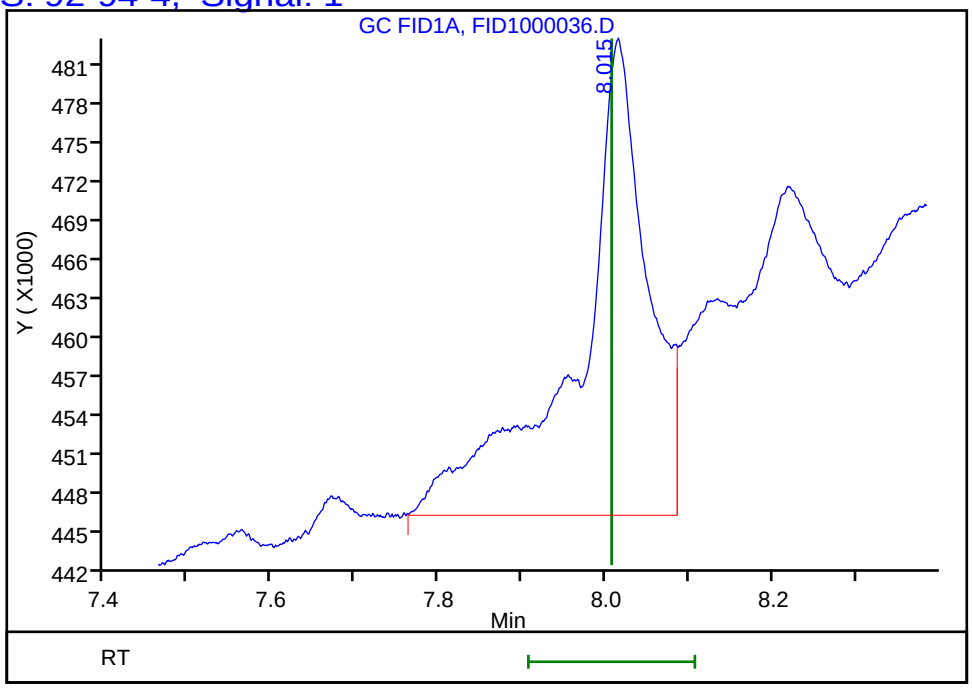
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000036.D

Injection Date:	21-Dec-2018 04:05:15	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-11-B	Lab Sample ID:	720-90412-11		
Client ID:	DG-S3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.01
Response: 4333754
Amount: 2.858392



Reviewer: luj, 21-Dec-2018 12:01:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-U3S-0.5-1 Lab Sample ID: 720-90412-12

Matrix: Solid Lab File ID: 5a122018_033.d

Analysis Method: 8015B Date Collected: 12/18/2018 13:15

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.05(g) Date Analyzed: 12/21/2018 04:48

Con. Extract Vol.: 2(mL) Dilution Factor: 2

Injection Volume: 1(uL) GC Column: ZB-5 ID: 320(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257323 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	98	B	4.0	1.5
STL00158	Motor Oil Range Organics [C24-C36]	220		100	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	99		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_033.d
Lims ID: 720-90412-E-12-B
Client ID: DG-U3S-0.5-1
Sample Type: Client
Inject. Date: 21-Dec-2018 04:48:11 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 011 Name: 720-0055776-033
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Dec-2018 12:26:24 Calib Date: 20-Dec-2018 09:01:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 12:26:24

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.509	2.588	-0.079	3111	NC	
	23 n-Decane		3.831			ND	
A	21 Stoddard Solvent	4.573	(2.588-6.559)		57875	NC	
A	1 C9-C13	4.573	(2.588-6.559)		57875	NC	
A	57 C10-C12	4.792	(3.831-5.753)		32144	3.28	
	24 Dodecane		5.753			ND	
A	3 C9 - C17	5.940	(2.588-9.292)		346497	28.6	
A	47 C9 - C18	6.237	(2.588-9.887)		455521	42.3	
A	60 C10-C16	6.242	(3.831-8.653)		223934	20.3	
A	25 C9-C19	6.507	(2.588-10.426)		455521	37.3	
A	15 Kerosene	6.507	(2.588-10.426)		455521	42.2	
	26 C13	6.529	6.559	-0.030	15695	NC	
$	27 n-Decanoic Acid (Surr)		7.184			ND	U
A	59 C12-C16	7.203	(5.753-8.653)		206310	21.0	
A	62 C10-C20	7.397	(3.831-10.964)		783893	80.0	
A	28 C9-C24	7.743	(2.588-12.899)		2098740	214.1	
A	29 C9-C25	7.962	(2.588-13.337)		2249486	229.5	
A	54 C10-C23	8.138	(3.831-12.444)		1382158	141.0	
A	4 C10-C24	8.365	(3.831-12.899)		2091171	213.4	
A	16 C10-C25	8.584	(3.831-13.337)		2241917	228.7	
	45 Hexadecane	8.591	8.653	-0.062	25991	NC	
A	14 C10-C26	8.795	(3.831-13.759)		2771136	282.7	
A	67 C12-C22	8.862	(5.753-11.971)		1364534	139.2	
A	5 Diesel	9.195	(3.831-14.560)		3607571	368.1	
A	32 C10-C28	9.195	(3.831-14.560)		3607571	368.1	
A	12 Unknown Hydrocarbons	9.195	(3.831-14.560)		3607571	NC	
A	30 C13-C22	9.265	(6.559-11.971)		1347547	137.5	
	44 Heptadecane		9.292			ND	
A	31 C12-C24	9.326	(5.753-12.899)		2073547	211.6	
	49 n-Octadecane	9.861	9.887	-0.025	81023	NC	
A	11 Bunker Range Organics (C9-	9.942	(2.588-17.297)		6825768	NC	
A	52 Mineral oil	9.942	(2.588-17.297)		7102440	634.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.942	(2.588-17.297)		7102440	NC	
33 C19	10.429	10.426	0.003	122339	NC	
A 64 C13-C28	10.559	(6.559-14.560)		3572960	364.6	
A 17 C10-C36	10.564	(3.831-17.297)		6818199	695.7	
A 68 Crude Oil Range Organics (	10.747	(2.588-18.907)		8261981	NC	
A 13 C9-C40	10.747	(2.588-18.907)		8261981	1132.0	
A 58 C16-C24	10.776	(8.653-12.899)		1893228	193.2	
61 icosane	10.963	10.964	-0.001	54088	NC	
A 6 C10-C40	11.369	(3.831-18.907)		8251254	998.0	
$ 34 p-Terphenyl	11.950	11.962	-0.012	148182	12.4	M
35 n-Docosane		11.971			ND	
A 18 C12-C40	12.330	(5.753-18.907)		8203934	993.9	
36 Tricosane	12.448	12.444	0.004	284448	NC	
A 66 C13-C40	12.733	(6.559-18.907)		8167564	990.1	
37 n-Tetracosane	12.899	12.899	0.000	424565	NC	
A 2 C16-C36 ORO	12.975	(8.653-17.297)		6784398	982.8	
38 C25	13.339	13.337	0.002	130663	NC	
46 n-Hexacosane	13.757	13.759	-0.002	398556	NC	
A 19 C16-C40	13.780	(8.653-18.907)		7943939	965.6	
A 20 C19-C36	13.862	(10.426-17.297)		5968396	691.7	
A 55 C23-C32	14.227	(12.444-16.010)		3918719	857.5	
39 n-Octacosane	14.504	14.560	-0.056	427533	NC	
65 C29	14.947	14.940	0.007	739140	NC	
A 40 C24-C36	15.098	(12.899-17.297)		4619803	832.1	
A 7 Motor Oil	15.098	(12.899-17.297)		4619803	832.1	
A 50 C25-C36	15.317	(13.337-17.297)		4248009	816.4	
A 10 C22-C40	15.439	(11.971-18.907)		6210538	864.4	
A 41 C23-C40	15.676	(12.444-18.907)		6028372	862.6	
A 8 C24-C40	15.903	(12.899-18.907)		5681295	847.6	
56 Dotriacontane	16.015	16.010	0.005	223854	NC	
A 51 C28-C40	16.733	(14.560-18.907)		4073061	820.7	
A 63 C29-C40	16.924	(14.940-18.907)		3607890	817.7	
42 n-Hexatriacontane		17.297			ND	
43 C40		18.907			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

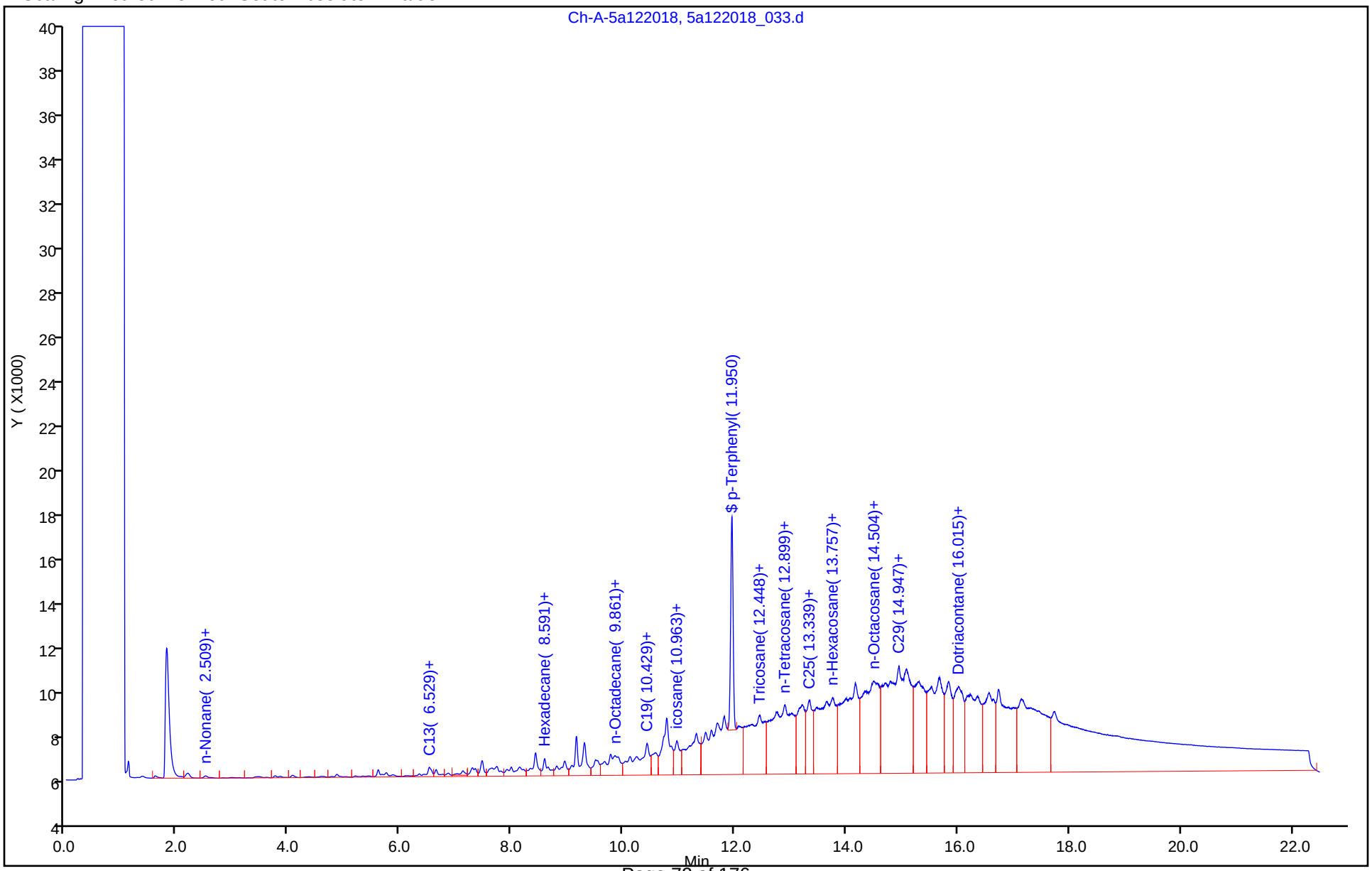
Report Date: 21-Dec-2018 12:26:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_033.d

Injection Date:	21-Dec-2018 04:48:11	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-12-B	Lab Sample ID:	720-90412-12	Worklist Smp#:	33
Client ID:	DG-U3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_033.d				
Lims ID:	720-90412-E-12-B				
Client ID:	DG-U3S-0.5-1				
Sample Type:	Client				
Inject. Date:	21-Dec-2018 04:48:11	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 011 Name: 720-0055776-033				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Dec-2018 12:26:24	Calib Date:	20-Dec-2018 09:01:42		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_003.d				
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Process Host:	CTX0302				

First Level Reviewer: luj Date: 21-Dec-2018 12:26:24

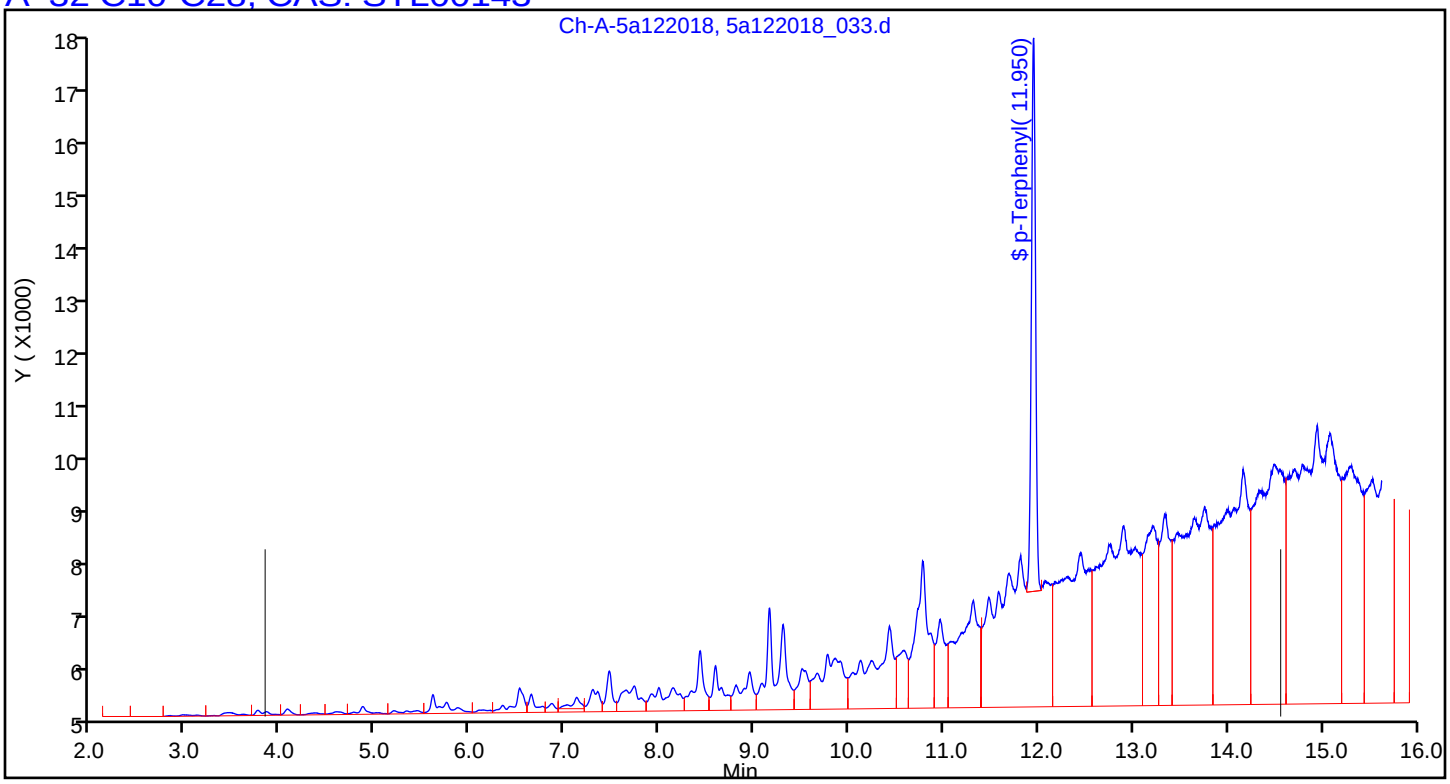
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	12.4	99.41

Report Date: 21-Dec-2018 12:26:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_033.d				
Injection Date:	21-Dec-2018 04:48:11	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-12-B	Lab Sample ID:	720-90412-12		
Client ID:	DG-U3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

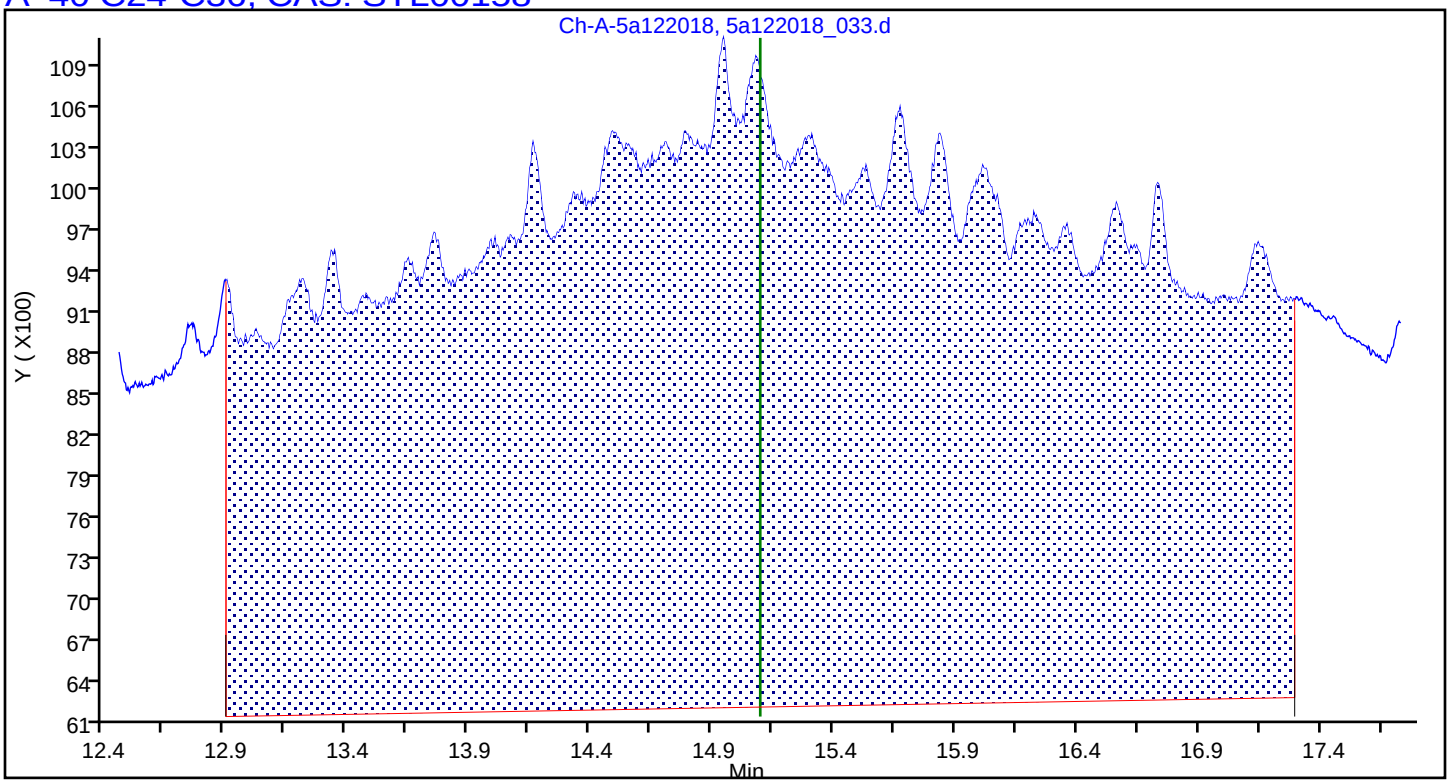


Report Date: 21-Dec-2018 12:26:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_033.d				
Injection Date:	21-Dec-2018 04:48:11	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-12-B	Lab Sample ID:	720-90412-12		
Client ID:	DG-U3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

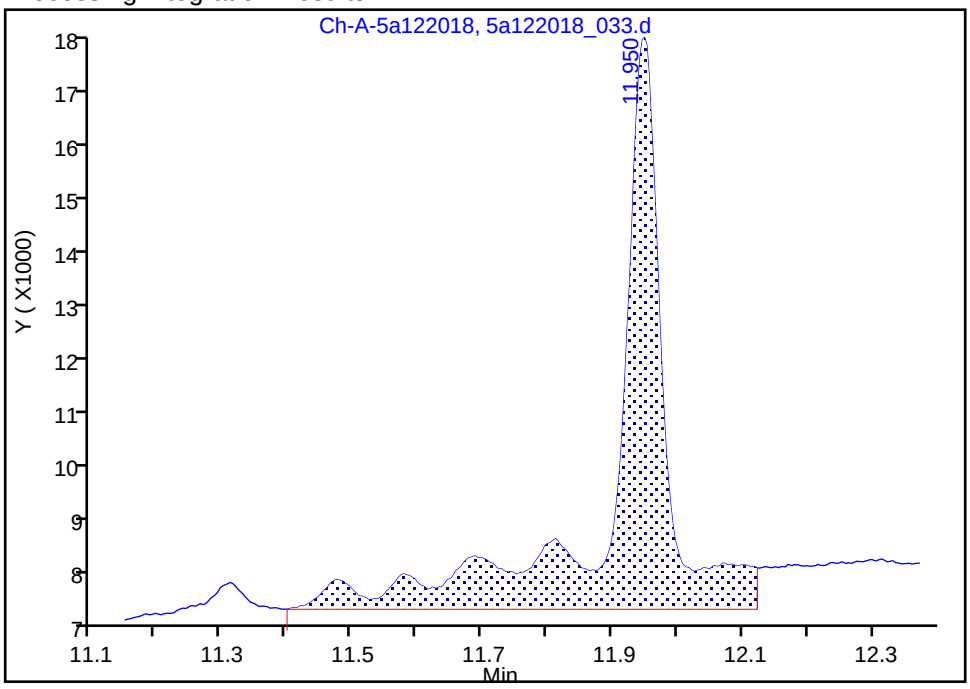
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55776.b\5a122018_033.d				
Injection Date:	21-Dec-2018 04:48:11	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-12-B	Lab Sample ID:	720-90412-12		
Client ID:	DG-U3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

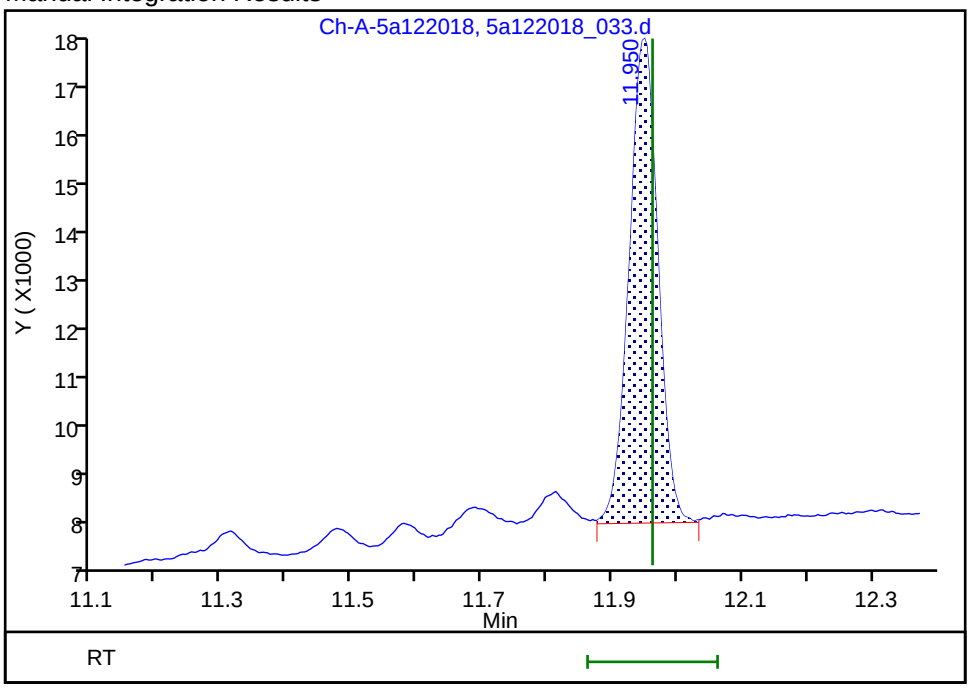
Processing Integration Results

RT: 11.95
Area: 282446
Amount: 23.685371
Amount Units: mg/L



Manual Integration Results

RT: 11.95
Area: 148182
Amount: 12.426254
Amount Units: mg/L



Reviewer: luj, 21-Dec-2018 12:26:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-U3S-3.5-4 Lab Sample ID: 720-90412-13

Matrix: Solid Lab File ID: 5b122018_029.d

Analysis Method: 8015B Date Collected: 12/18/2018 13:15

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.10(g) Date Analyzed: 12/21/2018 02:51

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 320(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257324 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	12	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	36	J	50	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	92		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_029.d
Lims ID: 720-90412-E-13-B
Client ID: DG-U3S-3.5-4
Sample Type: Client
Inject. Date: 21-Dec-2018 02:51:52 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 100 Name: 720-0055777-029
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\DRO5B.m
Limit Group: DRO
Last Update: 21-Dec-2018 12:37:15 Calib Date: 20-Dec-2018 09:01:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 12:37:15

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.609	2.698	-0.089	2061	NC	
	23 n-Decane	3.963	3.915	0.048	327	NC	
A	21 Stoddard Solvent	4.655	(2.698-6.611)		44944	3.95	
A	1 C9-C13	4.655	(2.698-6.611)		44944	3.55	
A	57 C10-C12	4.864	(3.915-5.812)		26204	2.67	
	24 Dodecane	5.808	5.812	-0.004	863	NC	
A	3 C9 - C17	6.007	(2.698-9.316)		124837	8.84	
A	47 C9 - C18	6.297	(2.698-9.895)		217306	19.4	
A	60 C10-C16	6.302	(3.915-8.688)		106324	8.52	
A	25 C9-C19	6.575	(2.698-10.452)		233965	16.5	
A	15 Kerosene	6.575	(2.698-10.452)		233965	20.8	
	26 C13		6.611			ND	
$	27 n-Decanoic Acid (Surr)		7.215			ND	U
A	59 C12-C16	7.250	(5.812-8.688)		80983	8.25	
A	62 C10-C20	7.451	(3.915-10.986)		287936	29.3	
A	28 C9-C24	7.804	(2.698-12.910)		510486	52.0	
A	29 C9-C25	8.022	(2.698-13.346)		572177	58.3	
A	54 C10-C23	8.187	(3.915-12.458)		448797	45.7	
A	4 C10-C24	8.413	(3.915-12.910)		504252	51.4	
A	16 C10-C25	8.630	(3.915-13.346)		565943	57.6	
	45 Hexadecane	8.695	8.688	0.007	2679	NC	
A	14 C10-C26	8.840	(3.915-13.765)		635804	64.8	
A	67 C12-C22	8.900	(5.812-11.988)		357343	36.4	
A	12 Unknown Hydrocarbons	9.238	(3.915-14.561)		873905	NC	
A	32 C10-C28	9.238	(3.915-14.561)		873905	89.0	
A	5 Diesel	9.238	(3.915-14.561)		873905	89.0	
A	30 C13-C22	9.300	(6.611-11.988)		353260	36.0	
	44 Heptadecane	9.334	9.316	0.018	5079	NC	
A	31 C12-C24	9.361	(5.812-12.910)		478911	48.8	
	49 n-Octadecane		9.895			ND	
A	11 Bunker Range Organics (C9-	9.991	(2.698-17.283)		3135617	NC	
A	9 Crude Oil Range Organics (	10.045	(2.807-17.283)		2515394	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.991	(2.698-17.283)		2515530	231.6	
33 C19	10.456	10.452	0.004	9972	NC	
A 64 C13-C28	10.586	(6.611-14.561)		844481	86.0	
A 17 C10-C36	10.599	(3.915-17.283)		3129383	318.7	
A 68 Crude Oil Range Organics (	10.781	(2.698-18.864)		3118451	NC	
A 13 C9-C40	10.781	(2.698-18.864)		3118451	308.4	
A 58 C16-C24	10.799	(8.688-12.910)		397928	40.5	
61 icosane	11.027	10.986	0.041	9212	NC	
A 6 C10-C40	11.389	(3.915-18.864)		3113374	308.3	
$ 34 p-Terphenyl	11.957	11.955	0.002	290053	23.0	
35 n-Docosane	12.048	11.988	0.060	11869	NC	
A 18 C12-C40	12.338	(5.812-18.864)		3079935	306.0	
36 Tricosane	12.449	12.458	-0.009	14526	NC	
A 66 C13-C40	12.737	(6.611-18.864)		2935544	296.0	
37 n-Tetracosane		12.910			ND	
A 2 C16-C36 ORO	12.986	(8.688-17.283)		2076884	281.5	
38 C25	13.412	13.346	0.066	26756	NC	
46 n-Hexacosane	13.768	13.765	0.003	28187	NC	
A 19 C16-C40	13.776	(8.688-18.864)		2963495	296.1	
A 20 C19-C36	13.867	(10.452-17.283)		1617899	198.5	
A 55 C23-C32	14.230	(12.458-16.002)		1135342	263.6	
39 n-Octacosane	14.470	14.561	-0.091	59177	NC	
65 C29	14.941	14.939	0.002	57482	NC	
A 7 Motor Oil	15.097	(12.910-17.283)		1726130	275.4	
A 40 C24-C36	15.097	(12.910-17.283)		1726130	275.4	
A 50 C25-C36	15.314	(13.346-17.283)		1644847	277.5	
A 10 C22-C40	15.426	(11.988-18.864)		2112205	238.3	
A 41 C23-C40	15.661	(12.458-18.864)		2340810	270.4	
A 8 C24-C40	15.887	(12.910-18.864)		2282125	272.7	
56 Dotriacontane	15.978	16.002	-0.024	73617	NC	
A 51 C28-C40	16.712	(14.561-18.864)		1887976	283.8	
A 63 C29-C40	16.901	(14.939-18.864)		1729581	283.7	
42 n-Hexatriacontane	17.185	17.283	-0.098	1161696	NC	
43 C40		18.864			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

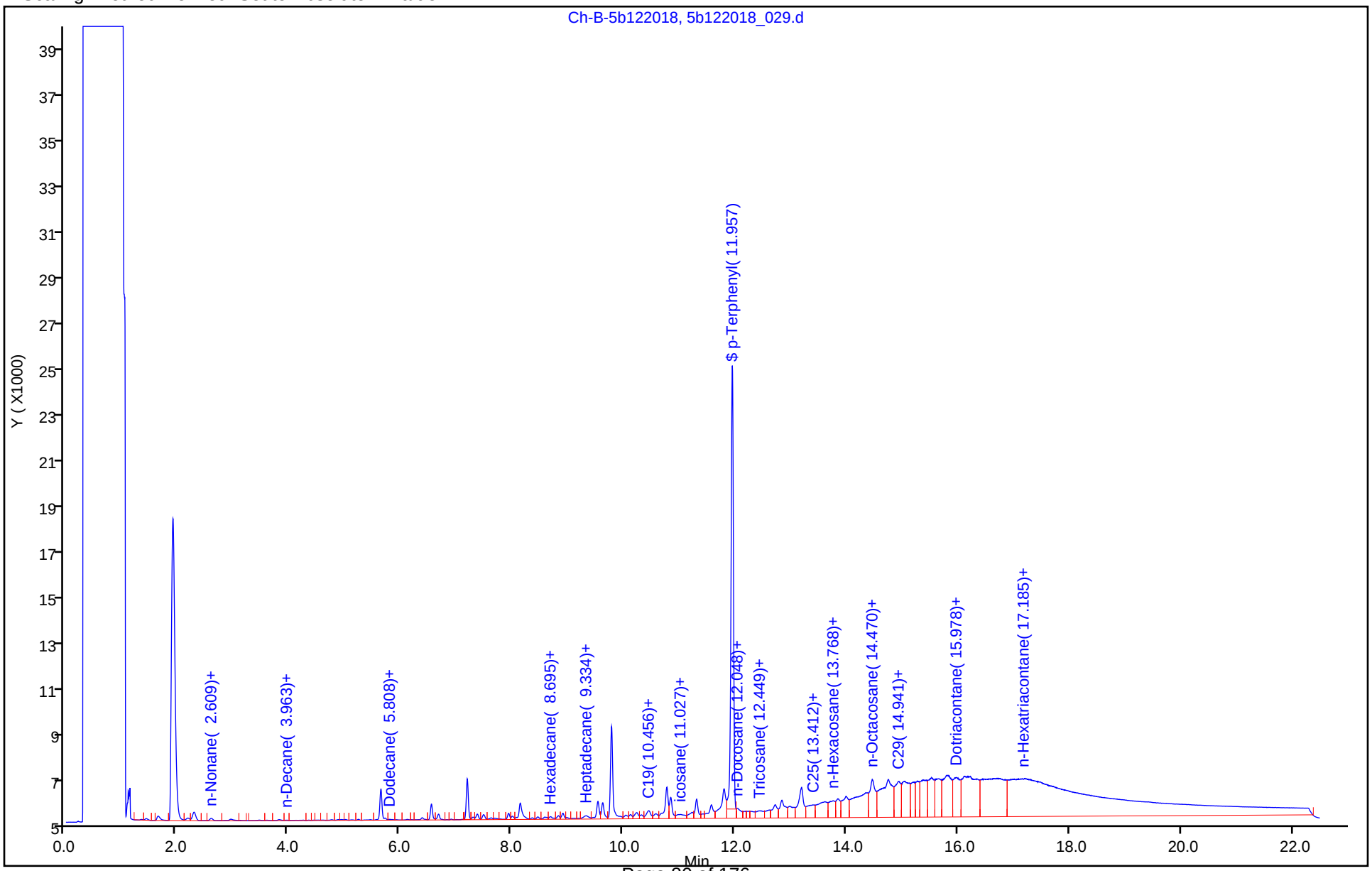
U - Marked Undetected

Report Date: 21-Dec-2018 12:37:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_029.d				
Injection Date:	21-Dec-2018 02:51:52	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-13-B	Lab Sample ID:	720-90412-13	Worklist Smp#:	29
Client ID:	DG-U3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_029.d				
Lims ID:	720-90412-E-13-B				
Client ID:	DG-U3S-3.5-4				
Sample Type:	Client				
Inject. Date:	21-Dec-2018 02:51:52	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 100 Name: 720-0055777-029				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	21-Dec-2018 12:37:15	Calib Date:	20-Dec-2018 09:01:42		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				

First Level Reviewer: luj Date: 21-Dec-2018 12:37:15

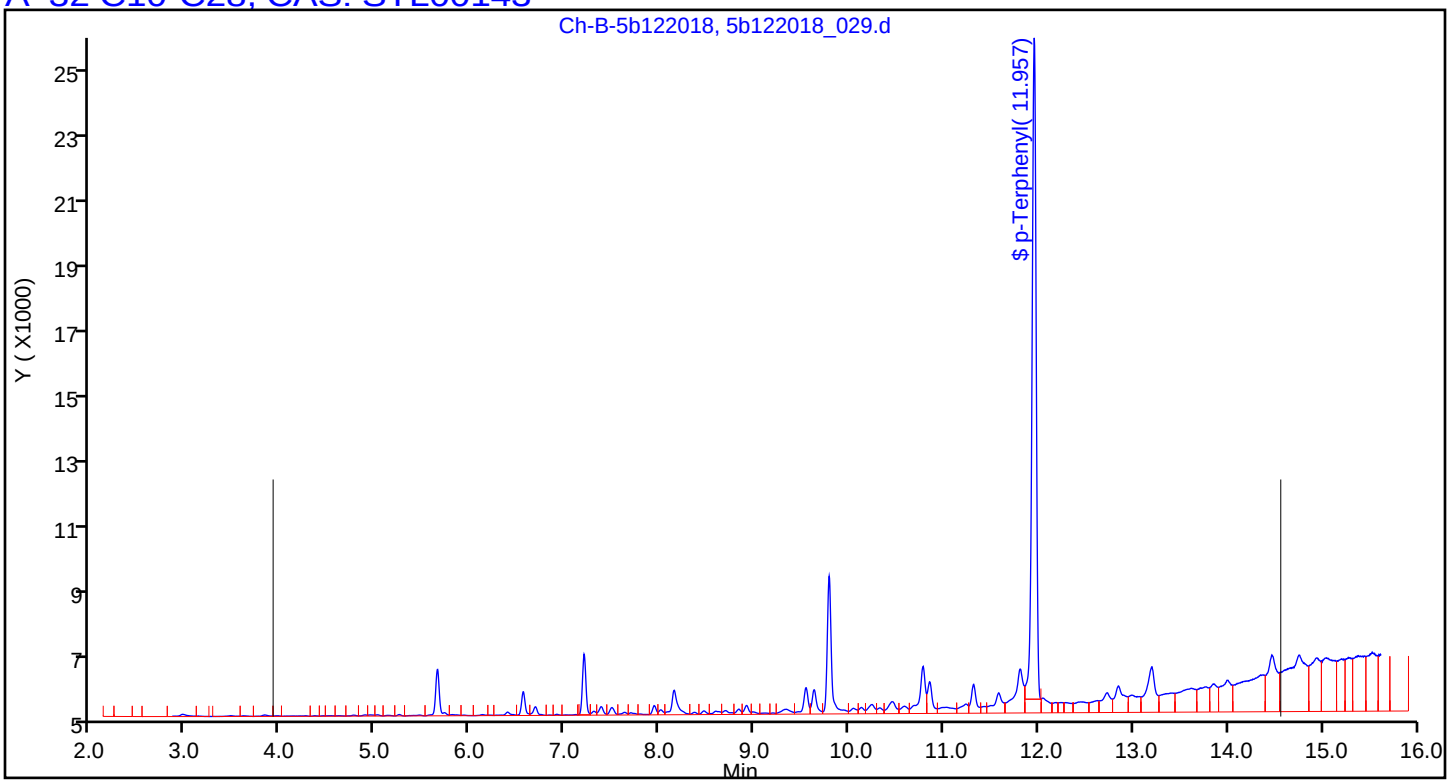
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.0	92.14

Report Date: 21-Dec-2018 12:37:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_029.d				
Injection Date:	21-Dec-2018 02:51:52	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-13-B	Lab Sample ID:	720-90412-13		
Client ID:	DG-U3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

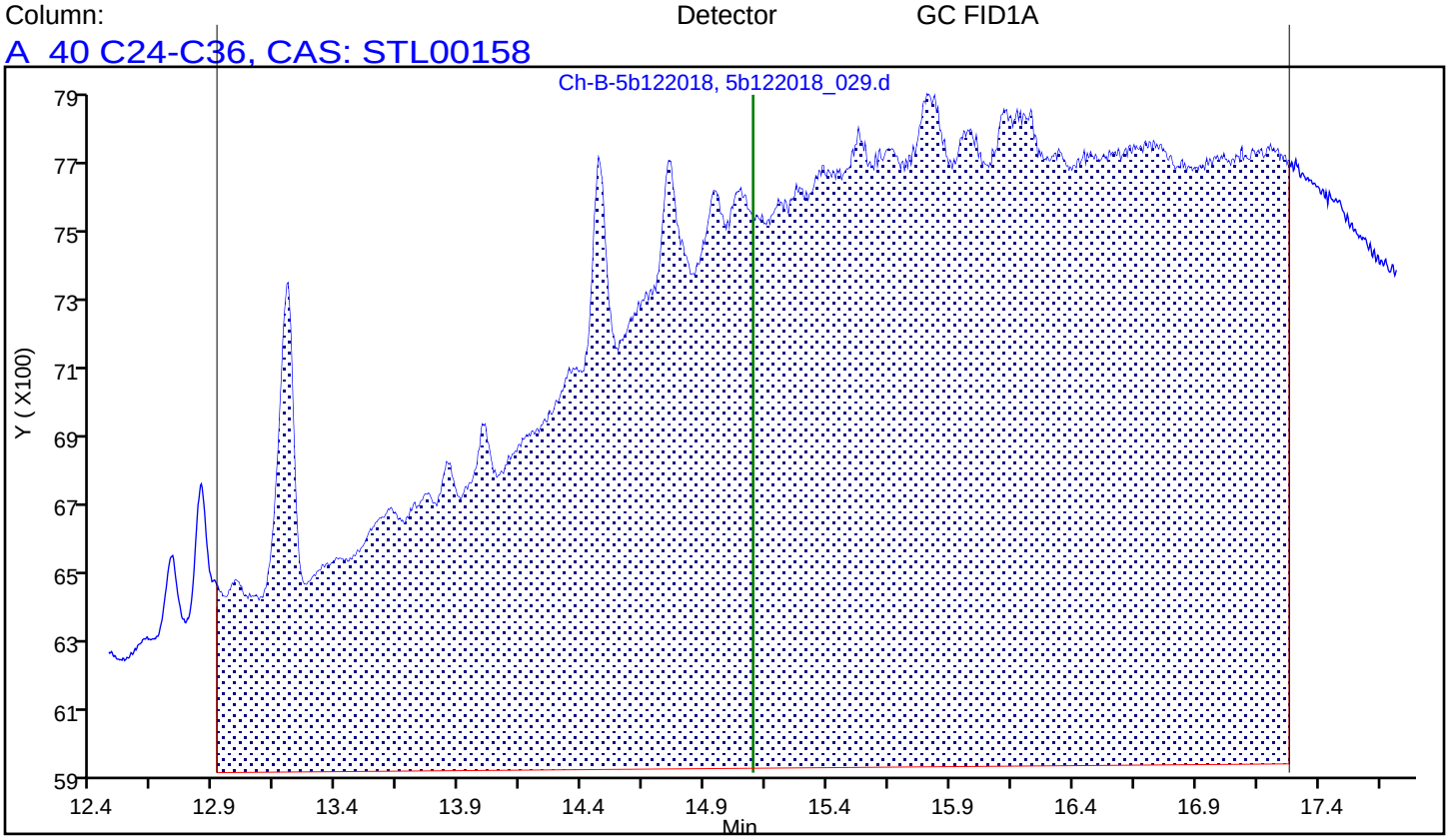


Report Date: 21-Dec-2018 12:37:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181220-55777.b\5b122018_029.d				
Injection Date:	21-Dec-2018 02:51:52	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-13-B	Lab Sample ID:	720-90412-13		
Client ID:	DG-U3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DUP-15 Lab Sample ID: 720-90412-14

Matrix: Solid Lab File ID: FID1000037.D

Analysis Method: 8015B Date Collected: 12/18/2018 00:00

Extraction Method: 3546 Date Extracted: 12/20/2018 09:45

Sample wt/vol: 15.05(g) Date Analyzed: 12/21/2018 04:29

Con. Extract Vol.: 2(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: MXT-1 ID: 530(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257325 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	330	B	20	7.5
STL00158	Motor Oil Range Organics [C24-C36]	2200		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	0	X D	40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000037.D
Lims ID: 720-90412-E-14-B
Client ID: DUP-15
Sample Type: Client
Inject. Date: 21-Dec-2018 04:29:29 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 720-0055778-037
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\DRO6_A.m
Limit Group: DRO
Last Update: 21-Dec-2018 12:02:46 Calib Date: 20-Dec-2018 08:50:52
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: luj Date: 21-Dec-2018 12:02:46

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.275	1.212	0.063	31290	NC	
	23 n-Decane	2.012	2.089	-0.077	41404	NC	
A	21 Stoddard Solvent	2.700	(1.212-4.189)		2578325	1.89	
A	1 C9-C13	2.700	(1.212-4.189)		2578325	NC	
A	57 C10-C12	2.829	(2.089-3.569)		1913243	1.50	
	24 Dodecane	3.532	3.569	-0.037	134470	NC	
A	3 C9 - C17	3.738	(1.212-6.264)		4176899	2.74	M
A	60 C10-C16	3.939	(2.089-5.788)		3409474	2.48	M
A	47 C9 - C18	3.963	(1.212-6.714)		6754679	6.10	M
A	25 C9-C19	4.178	(1.212-7.144)		9779403	6.38	M
A	15 Kerosene	4.178	(1.212-7.144)		9779403	8.82	M
	26 C13	4.147	4.189	-0.042	123756	NC	
$	27 n-Decanoic Acid (Surr)		4.550			ND	U
A	59 C12-C16	4.679	(3.569-5.788)		1630701	1.28	M
A	62 C10-C20	4.822	(2.089-7.554)		13278279	10.4	M
A	28 C9-C24	5.125	(1.212-9.038)		74468223	58.4	M
A	29 C9-C25	5.293	(1.212-9.374)		112077712	87.9	M
A	54 C10-C23	5.389	(2.089-8.689)		56450768	44.3	M
A	4 C10-C24	5.563	(2.089-9.038)		74269977	58.2	M
A	16 C10-C25	5.732	(2.089-9.374)		111879466	87.7	M
	45 Hexadecane	5.790	5.788	0.002	212251	NC	M
A	14 C10-C26	5.894	(2.089-9.699)		123101704	96.5	M
A	67 C12-C22	5.947	(3.569-8.325)		33790246	26.5	M
A	5 Diesel	6.203	(2.089-10.317)		314031455	246.2	M
A	12 Unknown Hydrocarbons	6.203	(2.089-10.317)		314031455	NC	M
A	32 C10-C28	6.203	(2.089-10.317)		314031455	246.2	M
A	30 C13-C22	6.257	(4.189-8.325)		33312696	26.1	M
	44 Heptadecane	6.338	6.264	0.074	1066130	NC	M
A	31 C12-C24	6.303	(3.569-9.038)		72491204	56.8	M
	51 n-Octadecane	6.713	6.714	-0.001	1046026	NC	M
A	52 Mineral oil	6.824	(1.212-12.435)		1460292006	NC	M
A	11 Bunker Range Organics (C9-	6.824	(1.212-12.435)		1460292006	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.824	(1.212-12.435)		1460292006	NC	M
33 C19	7.141	7.144	-0.003	2319945	NC	M
A 64 C13-C28	7.253	(4.189-10.317)		311775132	244.4	M
A 17 C10-C36	7.262	(2.089-12.435)		1460093760	1144.6	M
A 13 C9-C40	7.317	(1.212-13.422)		2154283314	1942.2	M
A 68 Crude Oil Range Organics (	7.317	(1.212-13.422)		2154283314	NC	M
A 58 C16-C24	7.413	(5.788-9.038)		70860503	55.6	M
61 icosane	7.558	7.554	0.004	1532369	NC	M
A 6 C10-C40	7.756	(2.089-13.422)		2154085068	1945.7	M
$ 34 p-Terphenyl		8.007			ND	U
35 n-Docosane	8.328	8.325	0.003	2954337	NC	M
A 18 C12-C40	8.495	(3.569-13.422)		2152306295	2002.7	M
36 Tricosane	8.688	8.689	-0.001	14547414	NC	M
A 66 C13-C40	8.806	(4.189-13.422)		2151828745	2032.2	M
37 n-Tetracosane		9.038			ND	
A 2 C16-C36 ORO	9.112	(5.788-12.435)		1519857787	1757.4	
38 C25	9.414	9.374	0.040	11222238	NC	M
A 19 C16-C40	9.605	(5.788-13.422)		2150675594	2070.0	M
46 n-Hexacosane	9.762	9.699	0.063	55844160	NC	M
A 20 C19-C36	9.790	(7.144-12.435)		1513204088	1466.3	
A 55 C23-C32	10.063	(8.689-11.437)		823279207	1490.9	M
39 n-Octacosane	10.254	10.317	-0.063	135085591	NC	M
65 C29	10.628	10.610	0.018	36318468	NC	M
A 7 Motor Oil	10.736	(9.038-12.435)		1174746589	1652.5	
A 40 C24-C36	10.736	(9.038-12.435)		1174746589	1652.5	
A 10 C22-C40	10.874	(8.325-13.422)		1699705883	1722.5	
A 49 C25-C36	10.905	(9.374-12.435)		1348214294	1932.8	M
A 41 C23-C40	11.055	(8.689-13.422)		2112181714	2113.2	M
A 8 C24-C40	11.230	(9.038-13.422)		2079815091	2202.4	M
56 Dotriacontane	11.390	11.437	-0.047	85914554	NC	M
A 50 C28-C40	11.869	(10.317-13.422)		1840053613	2510.4	M
A 63 C29-C40	12.016	(10.610-13.422)		1718192459	2547.7	M
42 n-Hexatriacontane	12.450	12.435	0.015	73308624	NC	M
43 C40		13.422			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

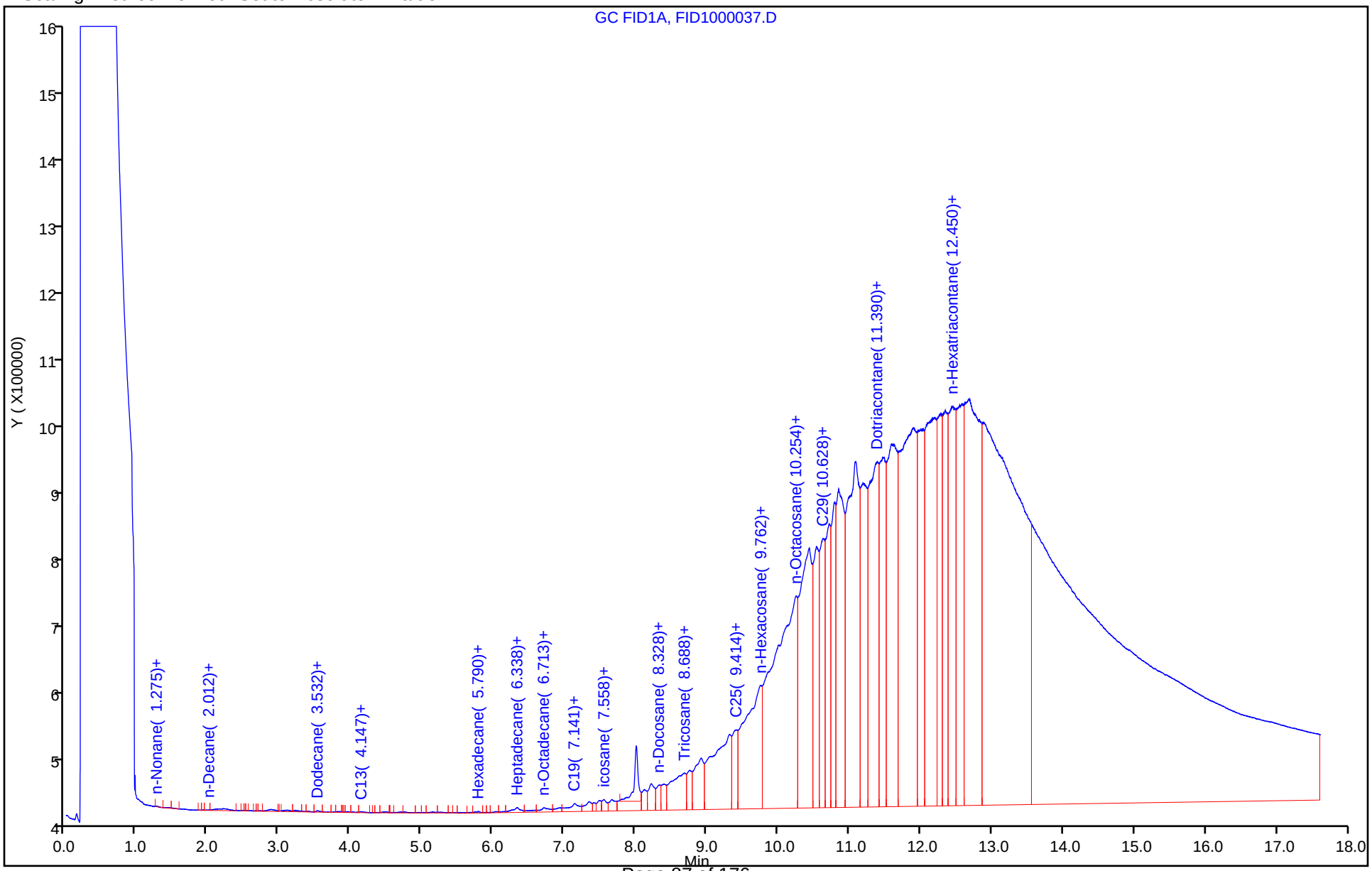
Report Date: 21-Dec-2018 12:02:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000037.D

Injection Date:	21-Dec-2018 04:29:29	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90412-E-14-B	Lab Sample ID:	720-90412-14	Worklist Smp#:	37
Client ID:	DUP-15				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	37
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

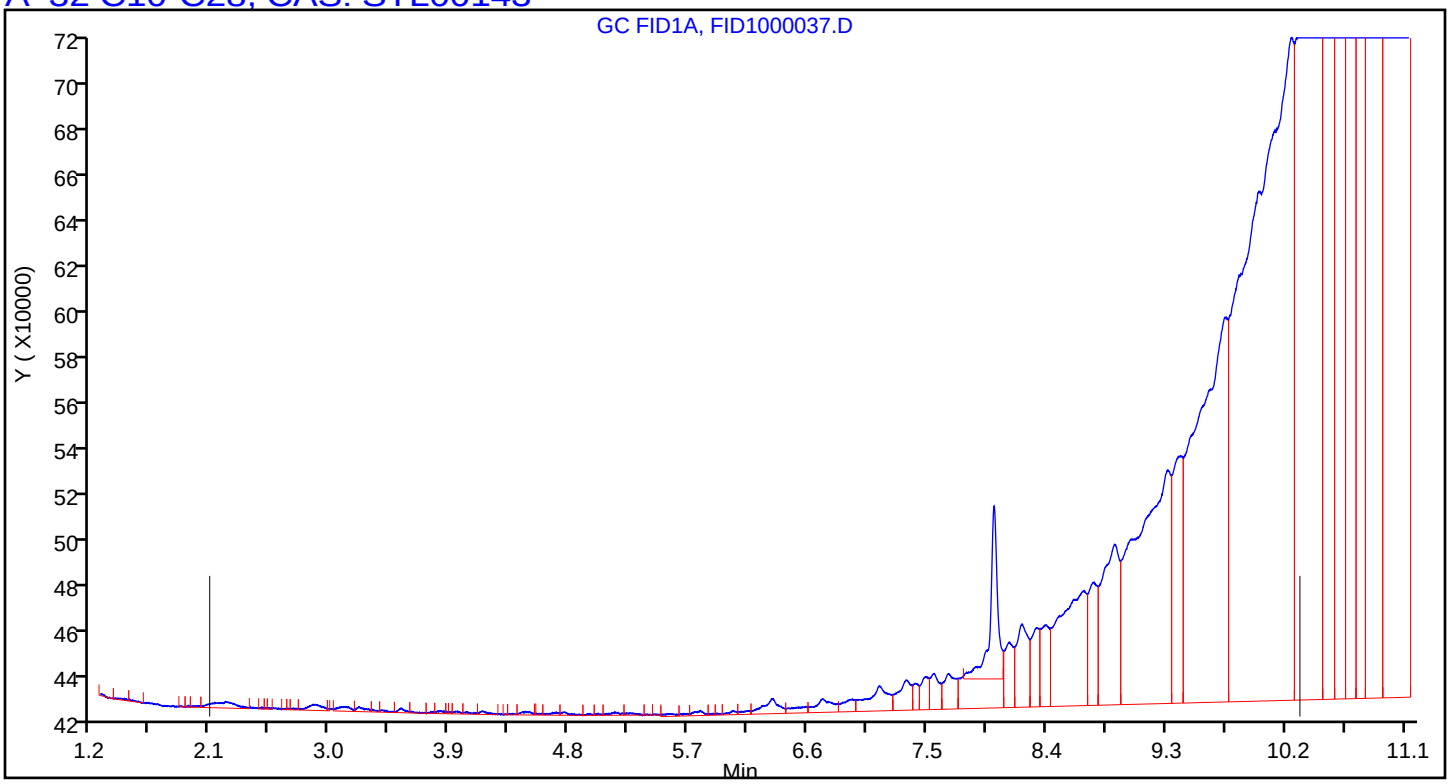


Report Date: 21-Dec-2018 12:02:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000037.D				
Injection Date:	21-Dec-2018 04:29:29	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-14-B	Lab Sample ID:	720-90412-14		
Client ID:	DUP-15				
Operator ID:	RLU	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

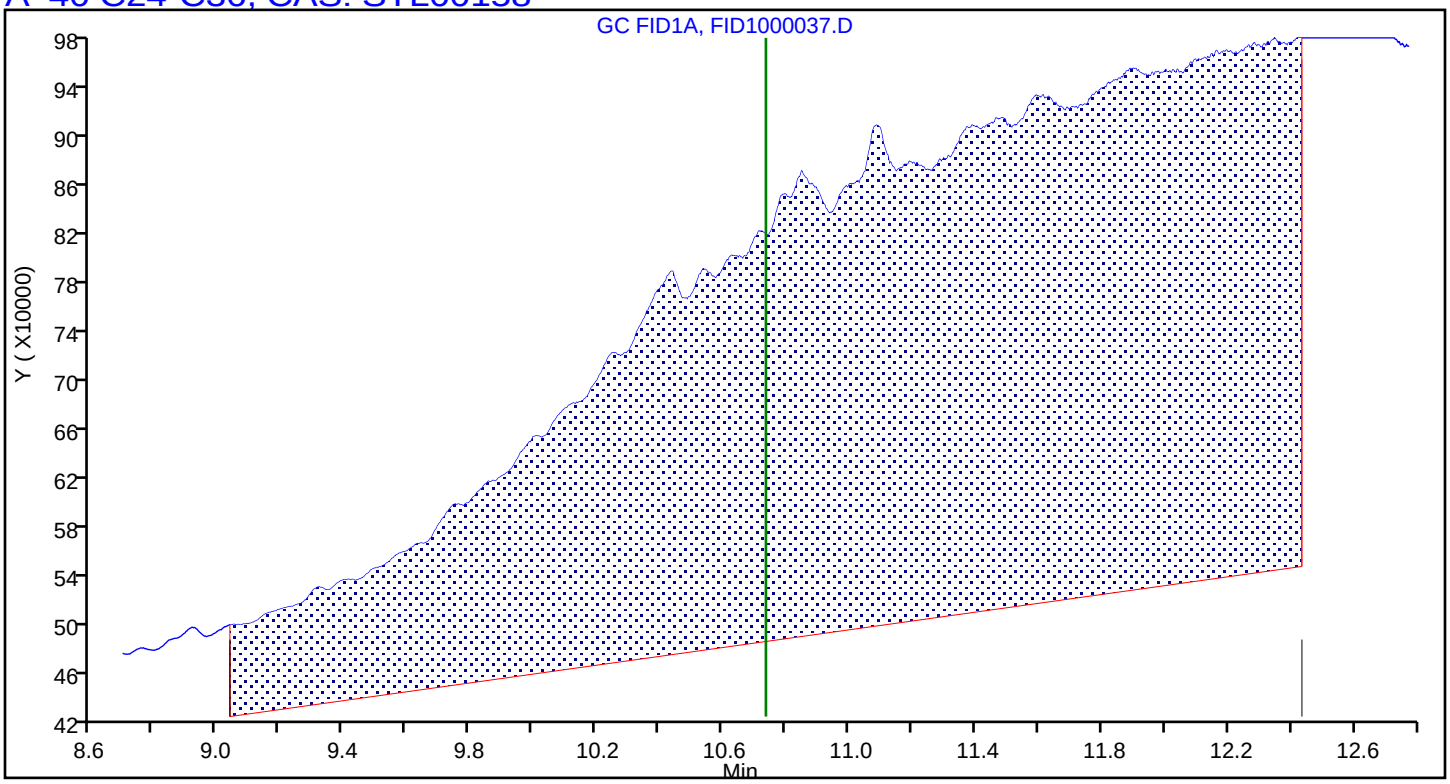


Report Date: 21-Dec-2018 12:02:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000037.D				
Injection Date:	21-Dec-2018 04:29:29	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-14-B	Lab Sample ID:	720-90412-14		
Client ID:	DUP-15				
Operator ID:	RLU	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

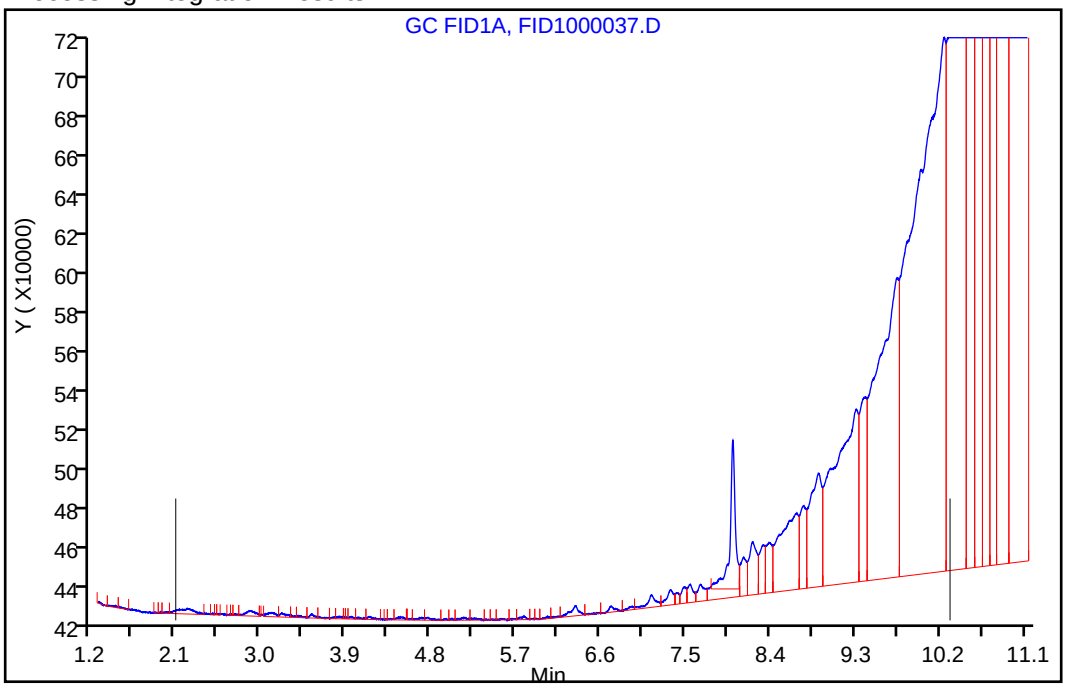
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000037.D				
Injection Date:	21-Dec-2018 04:29:29	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-14-B	Lab Sample ID:	720-90412-14		
Client ID:	DUP-15				
Operator ID:	RLU	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.203, CAS: STL00143

Signal: 1

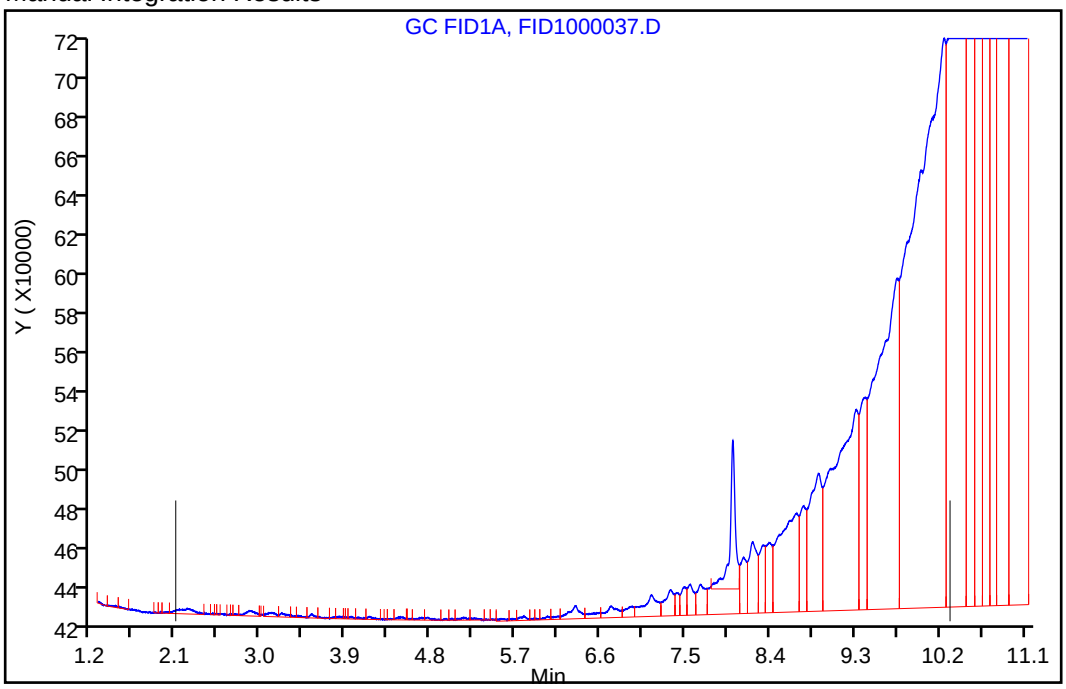
Processing Integration Results

RT: 6.20
Response: 259845928
Amount: 203.7026



Manual Integration Results

RT: 6.20
Response: 314031455
Amount: 246.1805



Reviewer: luj, 21-Dec-2018 12:02:23

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

User Disabled Compound Report

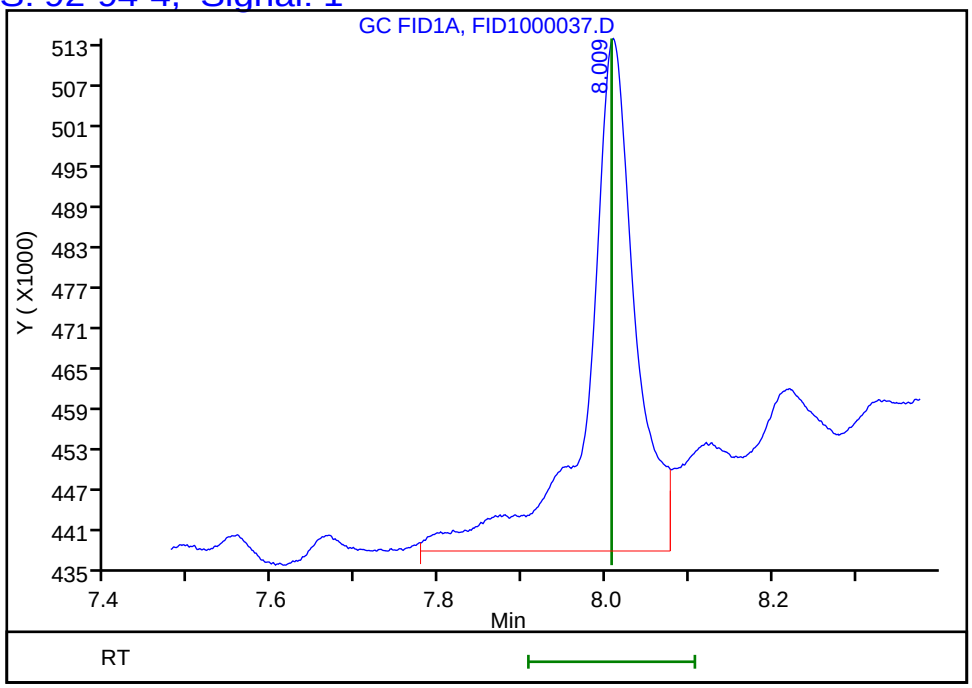
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181220-55778.b\FID1000037.D

Injection Date:	21-Dec-2018 04:29:29	Instrument ID:	CHDRO6		
Lims ID:	720-90412-E-14-B	Lab Sample ID:	720-90412-14		
Client ID:	DUP-15				
Operator ID:	RLU	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.01
Response: 6163170
Amount: 4.065010



Reviewer: luj, 21-Dec-2018 12:02:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-W3S-0.5-1 Lab Sample ID: 720-90412-15

Matrix: Solid Lab File ID: 5b122418_014.d

Analysis Method: 8015B Date Collected: 12/18/2018 14:05

Extraction Method: 3546 Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.11(g) Date Analyzed: 12/24/2018 14:54

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 320(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	62	B	2.0	0.74
STL00158	Motor Oil Range Organics [C24-C36]	160		50	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	68		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_014.d
Lims ID: 720-90412-E-15-C
Client ID: DG-W3S-0.5-1
Sample Type: Client
Inject. Date: 24-Dec-2018 14:54:26 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 103 Name: 720-0055819-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:13:35 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:13:35

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.734	2.698	0.036	743	NC	
	23 n-Decane	3.922	3.912	0.010	1421	NC	
A	1 C9-C13	4.653	(2.698-6.608)		45443	3.59	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		45443	4.00	
A	57 C10-C12	4.860	(3.912-5.808)		21323	2.17	
	24 Dodecane	5.806	5.808	-0.002	2902	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		172290	12.2	
A	47 C9 - C18	6.296	(2.698-9.894)		276772	24.7	
A	60 C10-C16	6.299	(3.912-8.686)		112451	9.01	
A	15 Kerosene	6.574	(2.698-10.449)		351779	31.3	
A	25 C9-C19	6.574	(2.698-10.449)		351779	24.8	
	26 C13	6.565	6.608	-0.043	5750	NC	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		94030	9.58	
A	62 C10-C20	7.448	(3.912-10.983)		551861	56.2	
A	28 C9-C24	7.803	(2.698-12.907)		2075023	211.3	
A	29 C9-C25	8.021	(2.698-13.343)		2625904	267.5	
A	54 C10-C23	8.184	(3.912-12.455)		1408800	143.5	
A	4 C10-C24	8.410	(3.912-12.907)		2062920	210.1	
A	16 C10-C25	8.627	(3.912-13.343)		2613801	266.2	
	45 Hexadecane	8.687	8.686	0.001	4398	NC	
A	14 C10-C26	8.837	(3.912-13.762)		2811542	286.4	
A	67 C12-C22	8.896	(5.808-11.985)		1147545	116.9	
A	5 Diesel	9.235	(3.912-14.558)		4614399	470.0	
A	32 C10-C28	9.235	(3.912-14.558)		4614399	470.0	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		4614399	NC	
A	30 C13-C22	9.296	(6.608-11.985)		1138376	115.9	
	44 Heptadecane	9.337	9.315	0.022	30610	NC	
A	31 C12-C24	9.358	(5.808-12.907)		2044499	208.2	
	49 n-Octadecane	9.850	9.894	-0.044	20525	NC	
A	52 Mineral oil	9.987	(2.698-17.277)		10503956	966.9	
A	9 Crude Oil Range Organics (	9.993	(2.710-17.277)		10503865	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		12550559	NC	
33 C19	10.450	10.449	0.001	55279	NC	
A 64 C13-C28	10.583	(6.608-14.558)		4586809	467.2	
A 17 C10-C36	10.594	(3.912-17.277)		12538456	1277.1	
A 13 C9-C40	10.777	(2.698-18.856)		12189344	1205.6	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		12189344	NC	
A 58 C16-C24	10.797	(8.686-12.907)		1950469	198.7	
61 icosane	10.998	10.983	0.015	49497	NC	
A 6 C10-C40	11.384	(3.912-18.856)		12177337	1206.0	
$ 34 p-Terphenyl	11.953	11.953	0.000	215548	17.1	
35 n-Docosane	12.084	11.985	0.099	80716	NC	
A 18 C12-C40	12.332	(5.808-18.856)		12137445	1205.8	
36 Tricosane	12.468	12.455	0.013	361408	NC	
A 66 C13-C40	12.732	(6.608-18.856)		11740961	1183.8	
37 n-Tetracosane	12.911	12.907	0.004	181354	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		8643448	1171.4	
38 C25	13.350	13.343	0.007	197741	NC	
46 n-Hexacosane	13.767	13.762	0.005	530327	NC	
A 19 C16-C40	13.771	(8.686-18.856)		11952976	1194.2	
A 20 C19-C36	13.863	(10.449-17.277)		8269187	1060.5	
A 55 C23-C32	14.227	(12.455-16.000)		5932649	1377.3	
39 n-Octacosane	14.497	14.558	-0.061	286133	NC	
65 C29	14.947	14.935	0.012	328772	NC	
A 40 C24-C36	15.092	(12.907-17.277)		7410989	1182.6	
A 7 Motor Oil	15.092	(12.907-17.277)		7410989	1182.6	
A 50 C25-C36	15.310	(13.343-17.277)		6896586	1163.6	
A 10 C22-C40	15.420	(11.985-18.856)		9576484	1080.4	
A 41 C23-C40	15.656	(12.455-18.856)		9368810	1082.3	
A 8 C24-C40	15.882	(12.907-18.856)		8908910	1064.7	
56 Dotriacontane	15.968	16.000	-0.032	4955950	NC	
A 51 C28-C40	16.707	(14.558-18.856)		6494756	976.2	
A 63 C29-C40	16.896	(14.935-18.856)		5688784	933.1	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

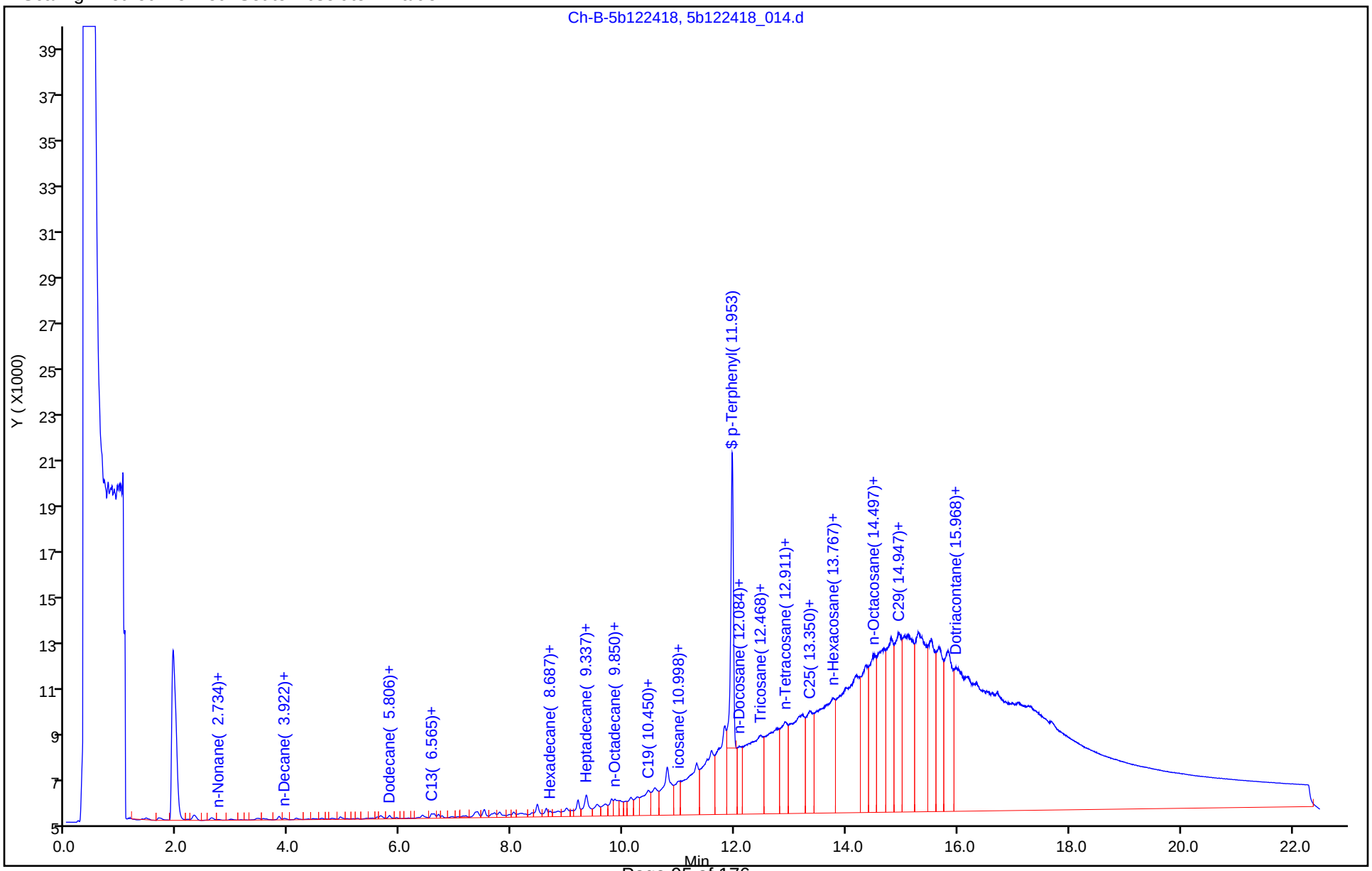
U - Marked Undetected

Report Date: 26-Dec-2018 12:13:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_014.d				
Injection Date:	24-Dec-2018 14:54:26	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-15-C	Lab Sample ID:	720-90412-15	Worklist Smp#:	14
Client ID:	DG-W3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_014.d				
Lims ID:	720-90412-E-15-C				
Client ID:	DG-W3S-0.5-1				
Sample Type:	Client				
Inject. Date:	24-Dec-2018 14:54:26	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 103 Name: 720-0055819-014				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	26-Dec-2018 12:13:35	Calib Date:	24-Dec-2018 09:33:54		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				

First Level Reviewer: hayashid Date: 26-Dec-2018 12:13:35

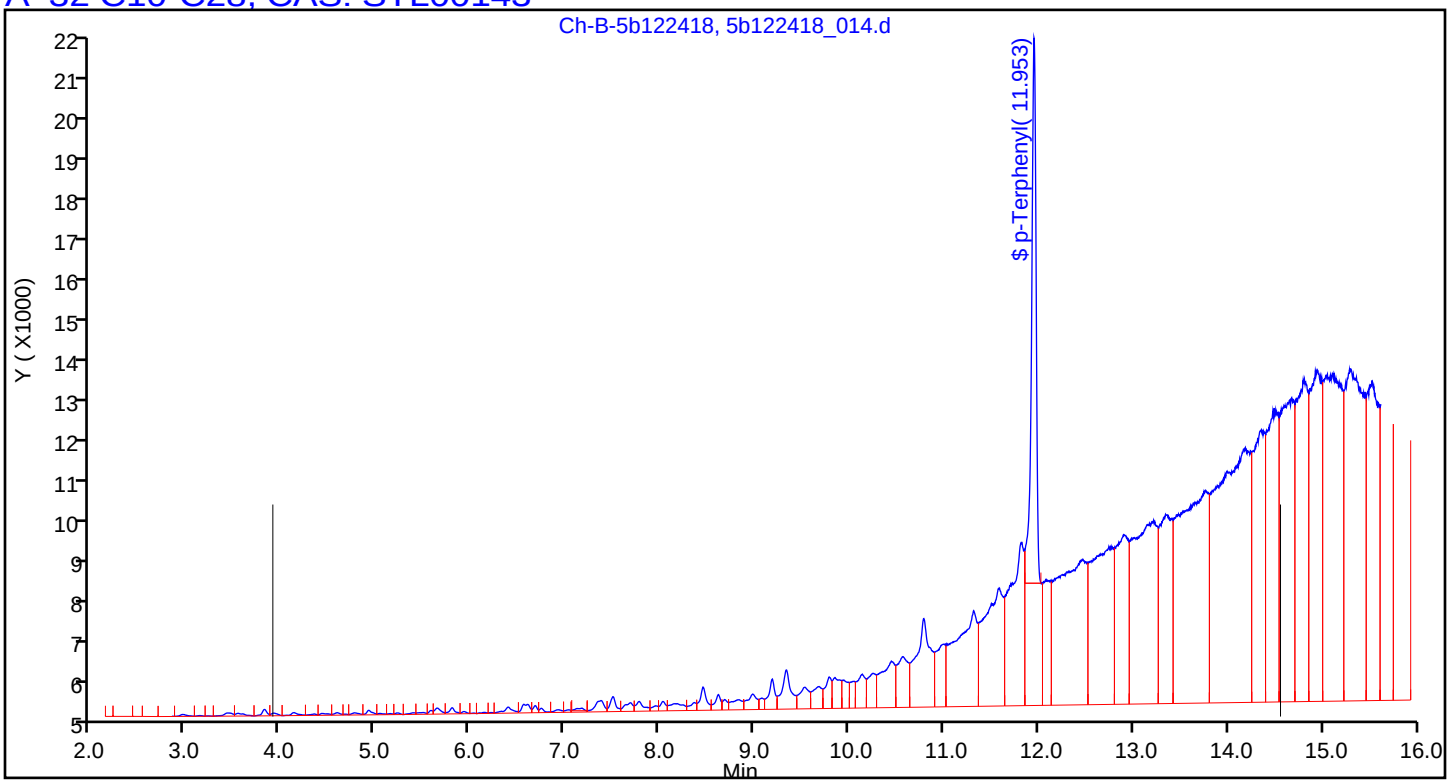
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	17.1	68.47

Report Date: 26-Dec-2018 12:13:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_014.d				
Injection Date:	24-Dec-2018 14:54:26	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-15-C	Lab Sample ID:	720-90412-15		
Client ID:	DG-W3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

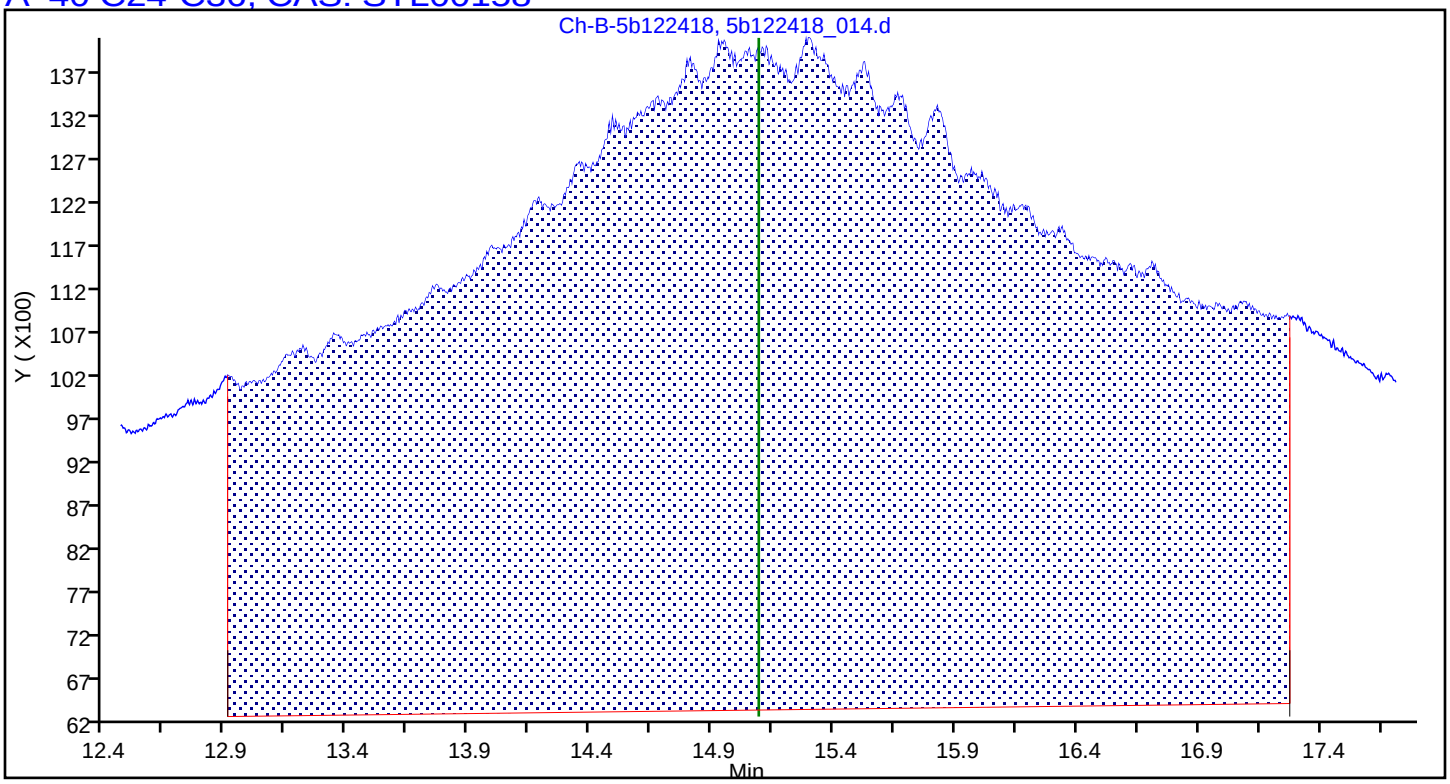


Report Date: 26-Dec-2018 12:13:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_014.d				
Injection Date:	24-Dec-2018 14:54:26	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-15-C	Lab Sample ID:	720-90412-15		
Client ID:	DG-W3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-W3S-3.5-4 Lab Sample ID: 720-90412-16

Matrix: Solid Lab File ID: 5b122418_020.d

Analysis Method: 8015B Date Collected: 12/18/2018 14:05

Extraction Method: 3546 Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.14(g) Date Analyzed: 12/24/2018 17:49

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 320(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	9.4	B	2.0	0.74
STL00158	Motor Oil Range Organics [C24-C36]	12	J	50	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	96		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_020.d
Lims ID: 720-90412-E-16-C
Client ID: DG-W3S-3.5-4
Sample Type: Client
Inject. Date: 24-Dec-2018 17:49:02 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 100 Name: 720-0055819-020
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:16:02 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:16:02

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.767	2.698	0.069	412	NC	
	23 n-Decane	3.958	3.912	0.046	1596	NC	
A	1 C9-C13	4.653	(2.698-6.608)		117493	9.28	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		117493	10.3	
A	57 C10-C12	4.860	(3.912-5.808)		89253	9.09	
	24 Dodecane	5.836	5.808	0.028	2111	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		436717	30.9	
A	47 C9 - C18	6.296	(2.698-9.894)		450010	40.1	
A	60 C10-C16	6.299	(3.912-8.686)		144056	11.5	
A	15 Kerosene	6.574	(2.698-10.449)		460459	40.9	
A	25 C9-C19	6.574	(2.698-10.449)		460459	32.5	
	26 C13		6.608			ND	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		54803	5.58	
A	62 C10-C20	7.448	(3.912-10.983)		490823	50.0	
A	28 C9-C24	7.803	(2.698-12.907)		594934	60.6	
A	29 C9-C25	8.021	(2.698-13.343)		610962	62.2	
A	54 C10-C23	8.184	(3.912-12.455)		564030	57.4	
A	4 C10-C24	8.410	(3.912-12.907)		588962	60.0	
A	16 C10-C25	8.627	(3.912-13.343)		604990	61.6	
	45 Hexadecane	8.673	8.686	-0.013	1034	NC	
A	14 C10-C26	8.837	(3.912-13.762)		626594	63.8	
A	67 C12-C22	8.896	(5.808-11.985)		462050	47.1	
A	5 Diesel	9.235	(3.912-14.558)		695957	70.9	
A	32 C10-C28	9.235	(3.912-14.558)		695957	70.9	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		695957	NC	
A	30 C13-C22	9.296	(6.608-11.985)		442690	45.1	
	44 Heptadecane	9.377	9.315	0.062	2100	NC	
A	31 C12-C24	9.358	(5.808-12.907)		499709	50.9	
	49 n-Octadecane		9.894			ND	
A	52 Mineral oil	9.987	(2.698-17.277)		1660326	152.8	
A	9 Crude Oil Range Organics (	9.368	(2.710-16.027)		1308812	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		853328	NC	
33 C19	10.399	10.449	-0.050	5009	NC	
A 64 C13-C28	10.583	(6.608-14.558)		587344	59.8	
A 17 C10-C36	9.969	(3.912-16.027)		847356	86.3	
A 13 C9-C40	10.777	(2.698-18.856)		2221546	219.7	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		2221546	NC	
A 58 C16-C24	10.797	(8.686-12.907)		445940	45.4	
61 icosane	11.024	10.983	0.041	6756	NC	
A 6 C10-C40	11.384	(3.912-18.856)		2214374	219.3	
$ 34 p-Terphenyl	11.960	11.953	0.007	301029	23.9	
35 n-Docosane		11.985			ND	
A 18 C12-C40	12.332	(5.808-18.856)		2116131	210.2	
36 Tricosane	12.458	12.455	0.003	7374	NC	
A 66 C13-C40	12.732	(6.608-18.856)		1936530	195.2	
37 n-Tetracosane	12.905	12.907	-0.002	4073	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		1282280	173.8	
38 C25	13.347	13.343	0.004	5344	NC	
46 n-Hexacosane	13.767	13.762	0.005	7153	NC	
A 19 C16-C40	13.771	(8.686-18.856)		2026538	202.5	
A 20 C19-C36	13.863	(10.449-17.277)		601149	77.1	
A 55 C23-C32	14.227	(12.455-16.000)		315707	73.3	
39 n-Octacosane	14.472	14.558	-0.086	28492	NC	
65 C29	14.940	14.935	0.005	13669	NC	
A 40 C24-C36	15.092	(12.907-17.277)		566678	90.4	
A 7 Motor Oil	15.092	(12.907-17.277)		566678	90.4	
A 50 C25-C36	15.310	(13.343-17.277)		546514	92.2	
A 10 C22-C40	15.420	(11.985-18.856)		771470	87.0	
A 41 C23-C40	15.656	(12.455-18.856)		1034596	119.5	
A 8 C24-C40	15.882	(12.907-18.856)		1019352	121.8	
56 Dotriacontane	15.996	16.000	-0.004	11003	NC	
A 51 C28-C40	16.707	(14.558-18.856)		900451	135.3	
A 63 C29-C40	16.896	(14.935-18.856)		858129	140.8	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

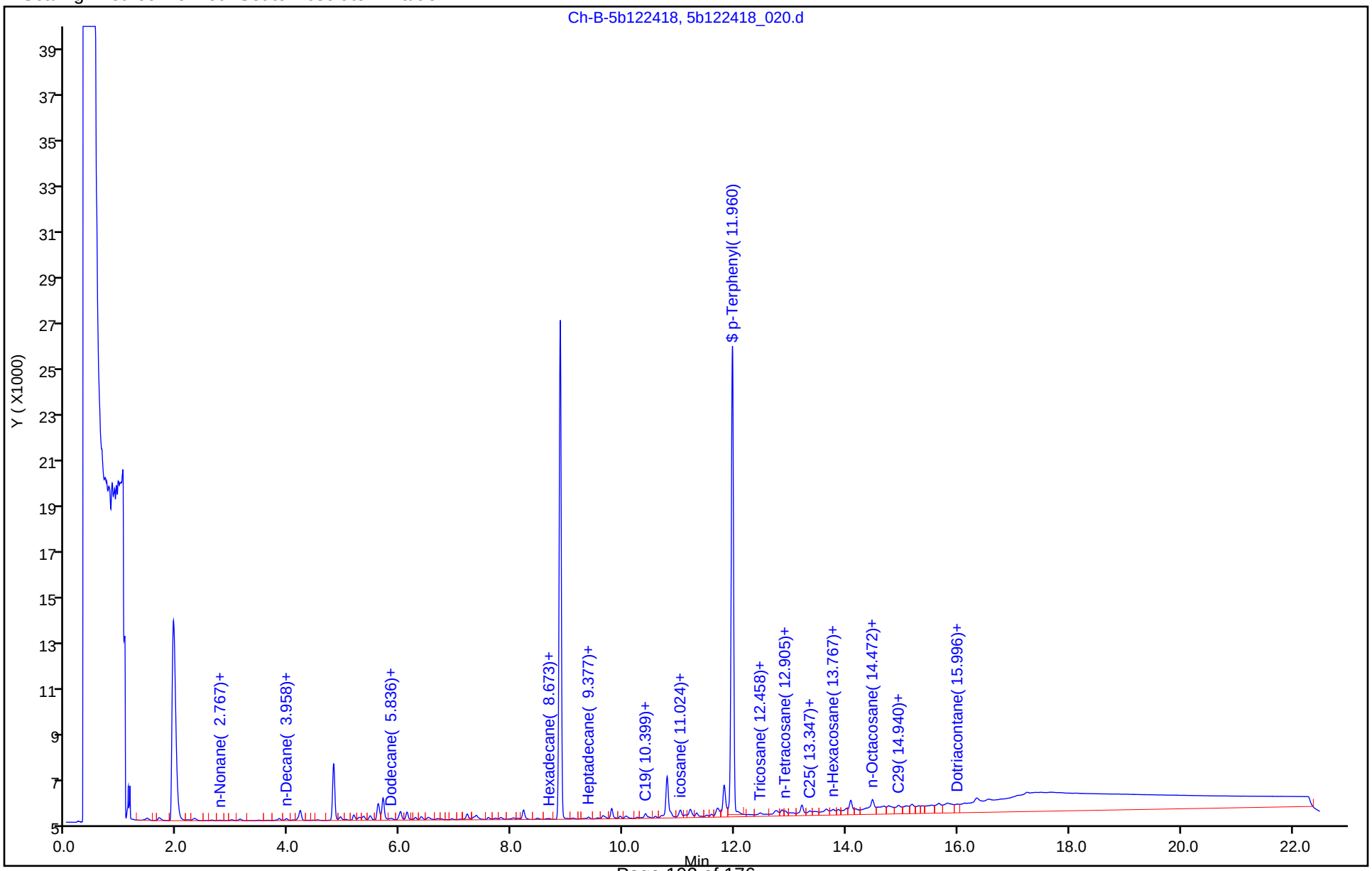
Report Date: 26-Dec-2018 12:16:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_020.d

Injection Date:	24-Dec-2018 17:49:02	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-16-C	Lab Sample ID:	720-90412-16	Worklist Smp#:	20
Client ID:	DG-W3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_020.d				
Lims ID:	720-90412-E-16-C				
Client ID:	DG-W3S-3.5-4				
Sample Type:	Client				
Inject. Date:	24-Dec-2018 17:49:02	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 100 Name: 720-0055819-020				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	26-Dec-2018 12:16:02	Calib Date:	24-Dec-2018 09:33:54		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				
First Level Reviewer: hayashid		Date:	26-Dec-2018 12:16:02		

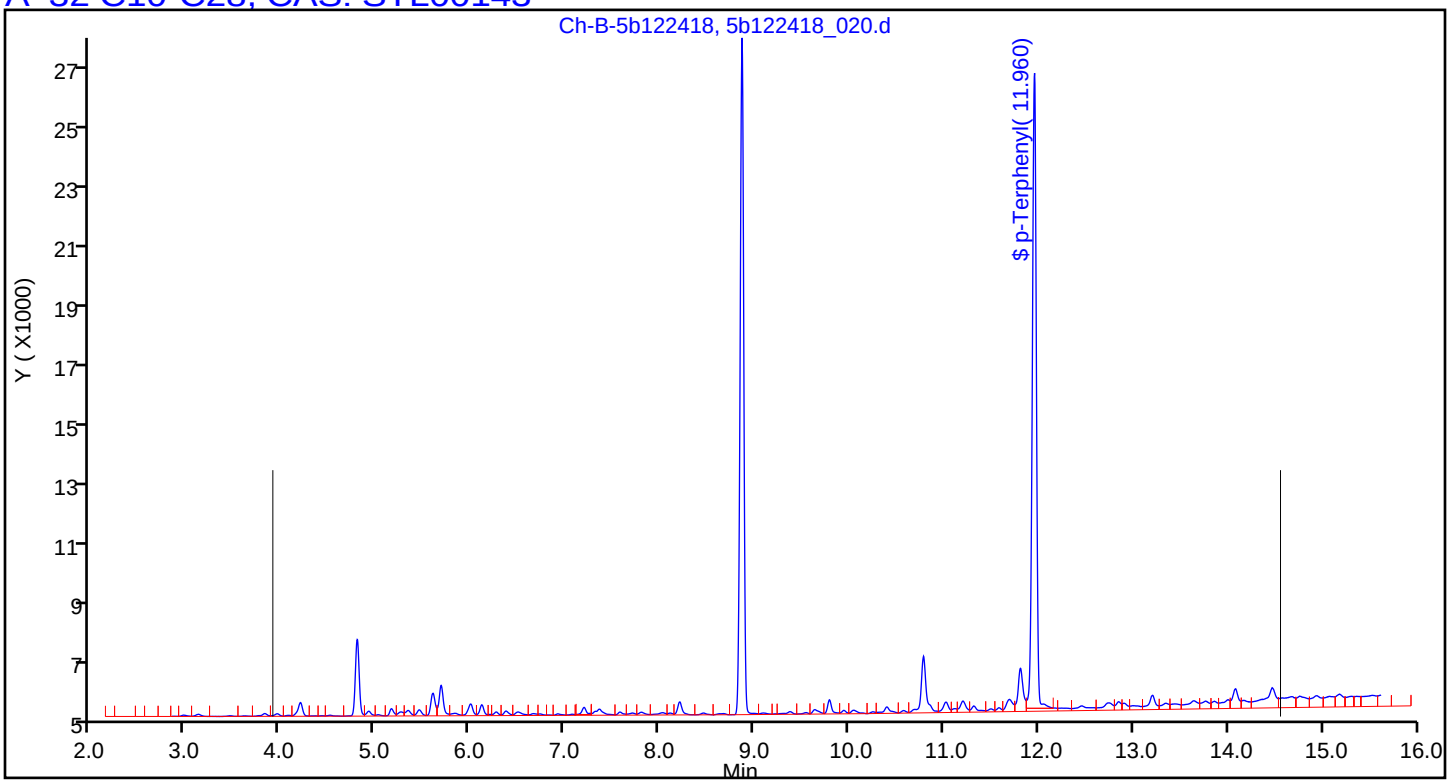
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.9	95.62

Report Date: 26-Dec-2018 12:16:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_020.d				
Injection Date:	24-Dec-2018 17:49:02	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-16-C	Lab Sample ID:	720-90412-16		
Client ID:	DG-W3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

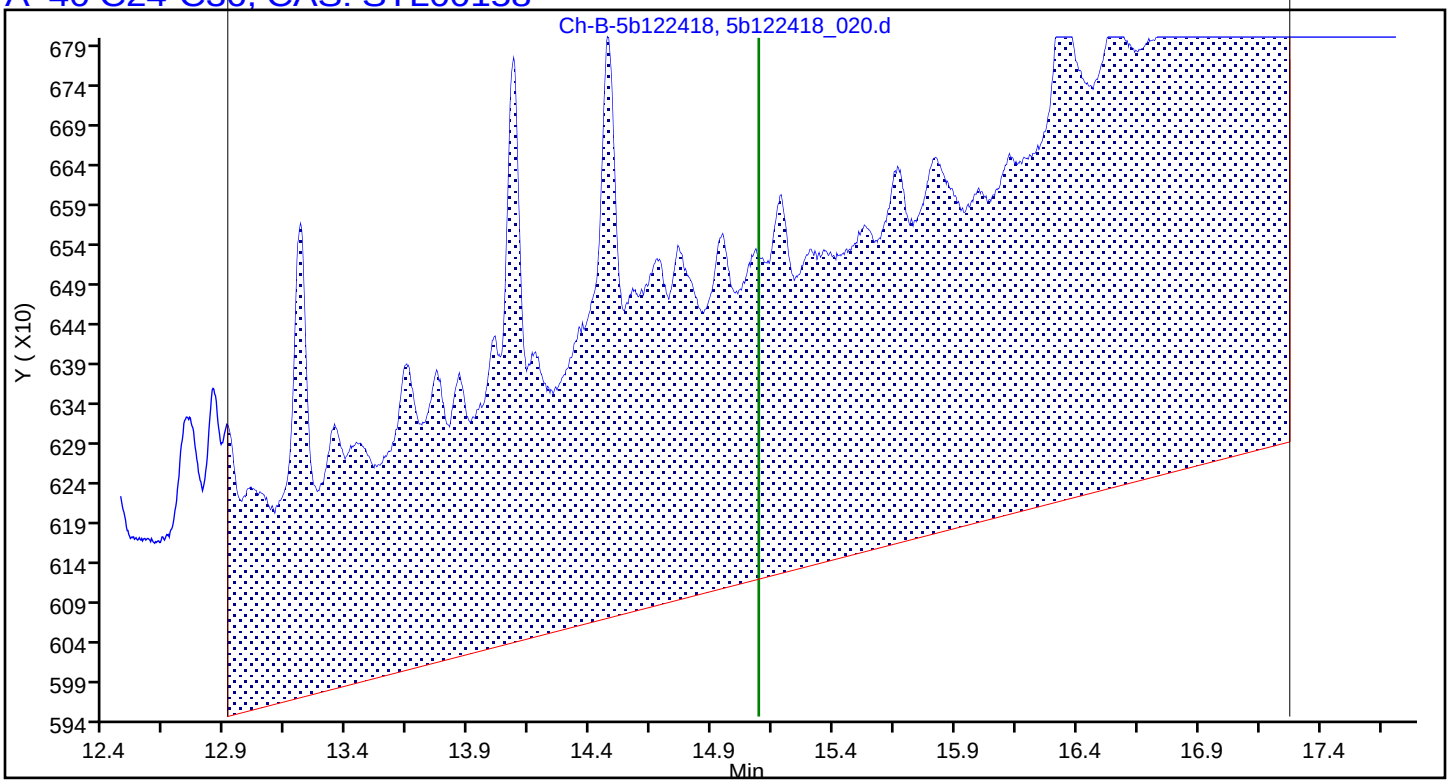


Report Date: 26-Dec-2018 12:16:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_020.d				
Injection Date:	24-Dec-2018 17:49:02	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-16-C	Lab Sample ID:	720-90412-16		
Client ID:	DG-W3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-Y3S-0.5-1 Lab Sample ID: 720-90412-17

Matrix: Solid Lab File ID: 5b122418_010.d

Analysis Method: 8015B Date Collected: 12/18/2018 14:40

Extraction Method: 3546 Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.05(g) Date Analyzed: 12/24/2018 12:57

Con. Extract Vol.: 2(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: ZB-5 ID: 320(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	930	B	20	7.5
STL00158	Motor Oil Range Organics [C24-C36]	1900		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	0	X D	40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_010.d
Lims ID: 720-90412-E-17-B
Client ID: DG-Y3S-0.5-1
Sample Type: Client
Inject. Date: 24-Dec-2018 12:57:57 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 137 Name: 720-0055819-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:18:09 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 10:58:42

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.735	2.698	0.037	615	NC	
	23 n-Decane	3.950	3.912	0.038	721	NC	
A	1 C9-C13	4.653	(2.698-6.608)		19288	1.52	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		19288	1.70	
A	57 C10-C12	4.860	(3.912-5.808)		9633	0.9811	
	24 Dodecane	5.802	5.808	-0.006	830	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		115561	8.18	
A	47 C9 - C18	6.296	(2.698-9.894)		204358	18.2	
A	60 C10-C16	6.299	(3.912-8.686)		69753	5.59	
A	15 Kerosene	6.574	(2.698-10.449)		289467	25.7	
A	25 C9-C19	6.574	(2.698-10.449)		289467	20.4	
	26 C13	6.566	6.608	-0.042	1895	NC	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		60950	6.21	
A	62 C10-C20	7.448	(3.912-10.983)		608312	62.0	
A	28 C9-C24	7.803	(2.698-12.907)		3212212	327.2	
A	29 C9-C25	8.021	(2.698-13.343)		4098490	417.4	
A	54 C10-C23	8.184	(3.912-12.455)		2292328	233.5	
A	4 C10-C24	8.410	(3.912-12.907)		3207865	326.7	
A	16 C10-C25	8.627	(3.912-13.343)		4094143	417.0	
	45 Hexadecane	8.688	8.686	0.002	2785	NC	
A	14 C10-C26	8.837	(3.912-13.762)		4947410	503.9	
A	67 C12-C22	8.896	(5.808-11.985)		1701036	173.3	
A	5 Diesel	9.235	(3.912-14.558)		6906444	703.4	
A	32 C10-C28	9.235	(3.912-14.558)		6906444	703.4	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		6906444	NC	
A	30 C13-C22	9.296	(6.608-11.985)		1696793	172.8	
	44 Heptadecane	9.335	9.315	0.020	24270	NC	
A	31 C12-C24	9.358	(5.808-12.907)		3199062	325.8	
	49 n-Octadecane		9.894			ND	
A	52 Mineral oil	9.987	(2.698-17.277)		13207968	1215.8	
A	9 Crude Oil Range Organics (	9.987	(2.698-16.030)		13207968	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		15150054	NC	
33 C19		10.449			ND	
A 64 C13-C28	10.583	(6.608-14.558)		6893398	702.1	
A 17 C10-C36	10.594	(3.912-16.030)		15145707	1542.6	
A 13 C9-C40	10.777	(2.698-18.856)		14757908	1459.7	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		14757908	NC	
A 58 C16-C24	10.797	(8.686-12.907)		3138112	319.6	
61 icosane		10.983			ND	
A 6 C10-C40	11.384	(3.912-18.856)		14751187	1460.9	
$ 34 p-Terphenyl		11.953			ND	U
35 n-Docosane		11.985			ND	
A 18 C12-C40	12.332	(5.808-18.856)		14723050	1462.7	
36 Tricosane		12.455			ND	
A 66 C13-C40	12.732	(6.608-18.856)		14354254	1447.3	
37 n-Tetracosane	12.914	12.907	0.007	284439	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		10611701	1438.2	
38 C25	13.350	13.343	0.007	211590	NC	
46 n-Hexacosane	13.767	13.762	0.005	236439	NC	
A 19 C16-C40	13.771	(8.686-18.856)		14590117	1457.7	
A 20 C19-C36	13.863	(10.449-17.277)		11476075	1471.7	
A 55 C23-C32	14.227	(12.455-16.000)		7758272	1801.2	
39 n-Octacosane	14.562	14.558	0.004	444606	NC	
65 C29	14.958	14.935	0.023	155680	NC	
A 40 C24-C36	15.092	(12.907-17.277)		9121338	1455.5	
A 7 Motor Oil	15.092	(12.907-17.277)		9121338	1455.5	
A 50 C25-C36	15.310	(13.343-17.277)		8293649	1399.4	
A 10 C22-C40	15.420	(11.985-18.856)		12039751	1358.3	
A 41 C23-C40	15.656	(12.455-18.856)		11312618	1306.9	
A 8 C24-C40	15.882	(12.907-18.856)		10531211	1258.6	
56 Dotriacontane		16.000			ND	
A 51 C28-C40	16.707	(14.558-18.856)		7022659	1055.6	
A 63 C29-C40	16.896	(14.935-18.856)		6070958	995.8	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

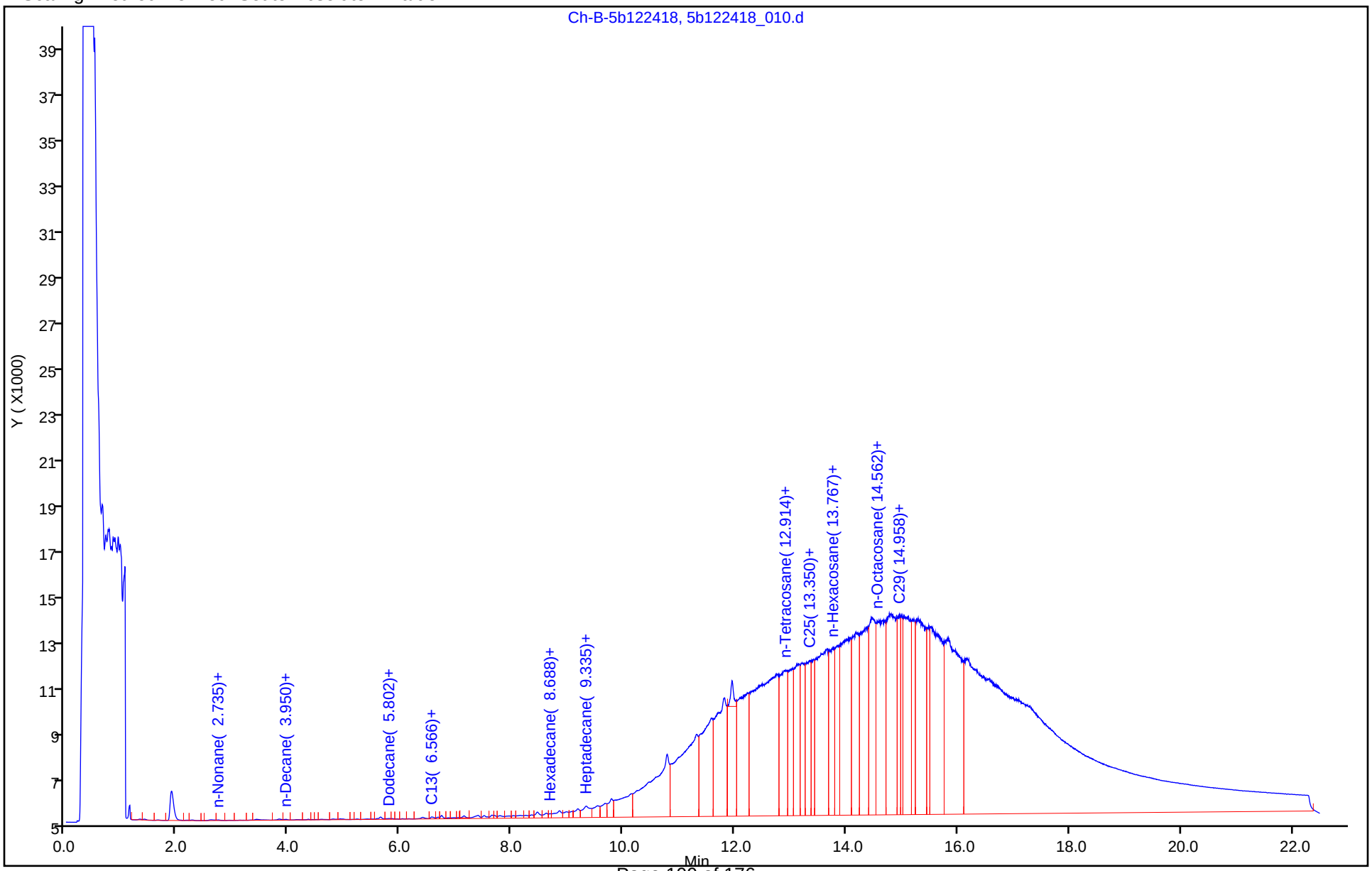
U - Marked Undetected

Report Date: 26-Dec-2018 13:04:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_010.d				
Injection Date:	24-Dec-2018 12:57:57	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-17-B	Lab Sample ID:	720-90412-17	Worklist Smp#:	10
Client ID:	DG-Y3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

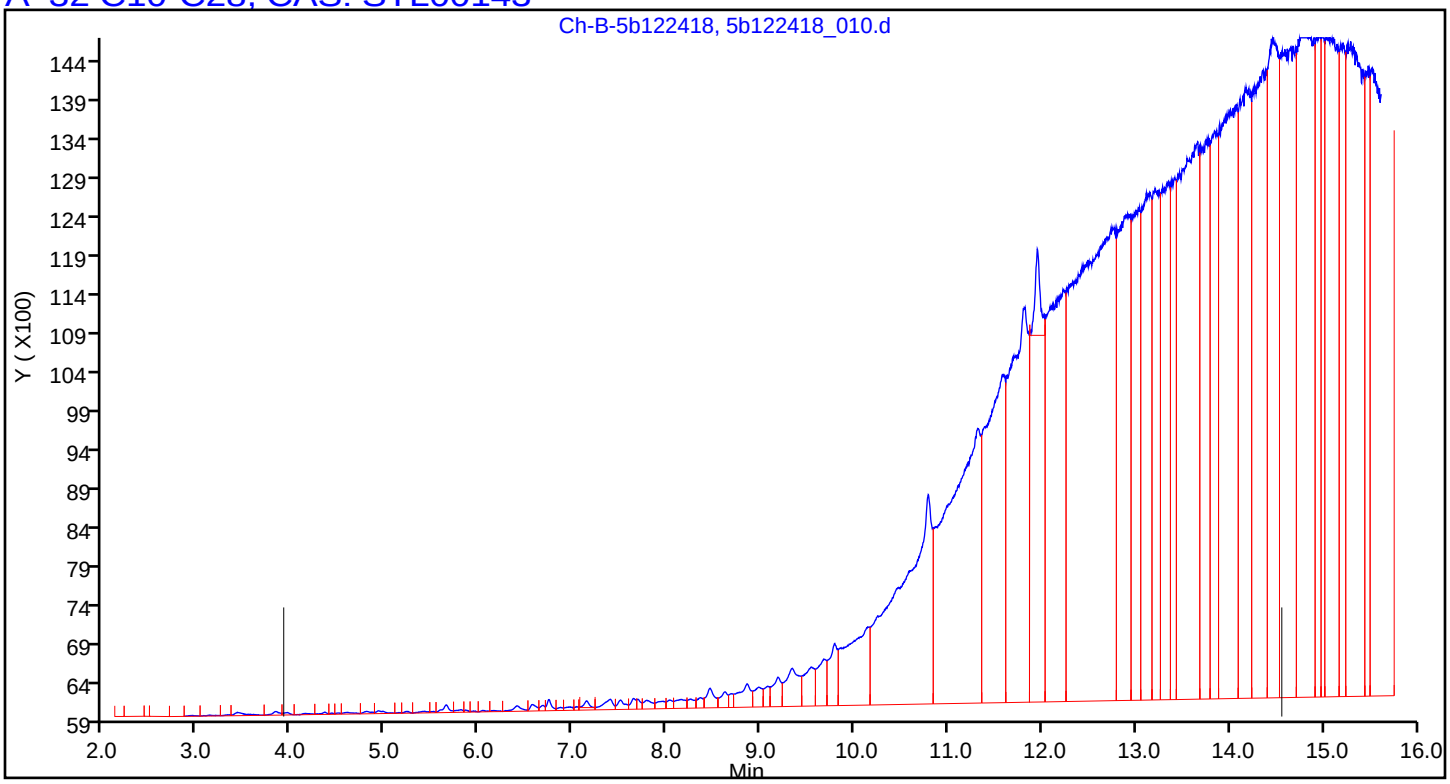


Report Date: 26-Dec-2018 13:04:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_010.d				
Injection Date:	24-Dec-2018 12:57:57	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-17-B	Lab Sample ID:	720-90412-17		
Client ID:	DG-Y3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

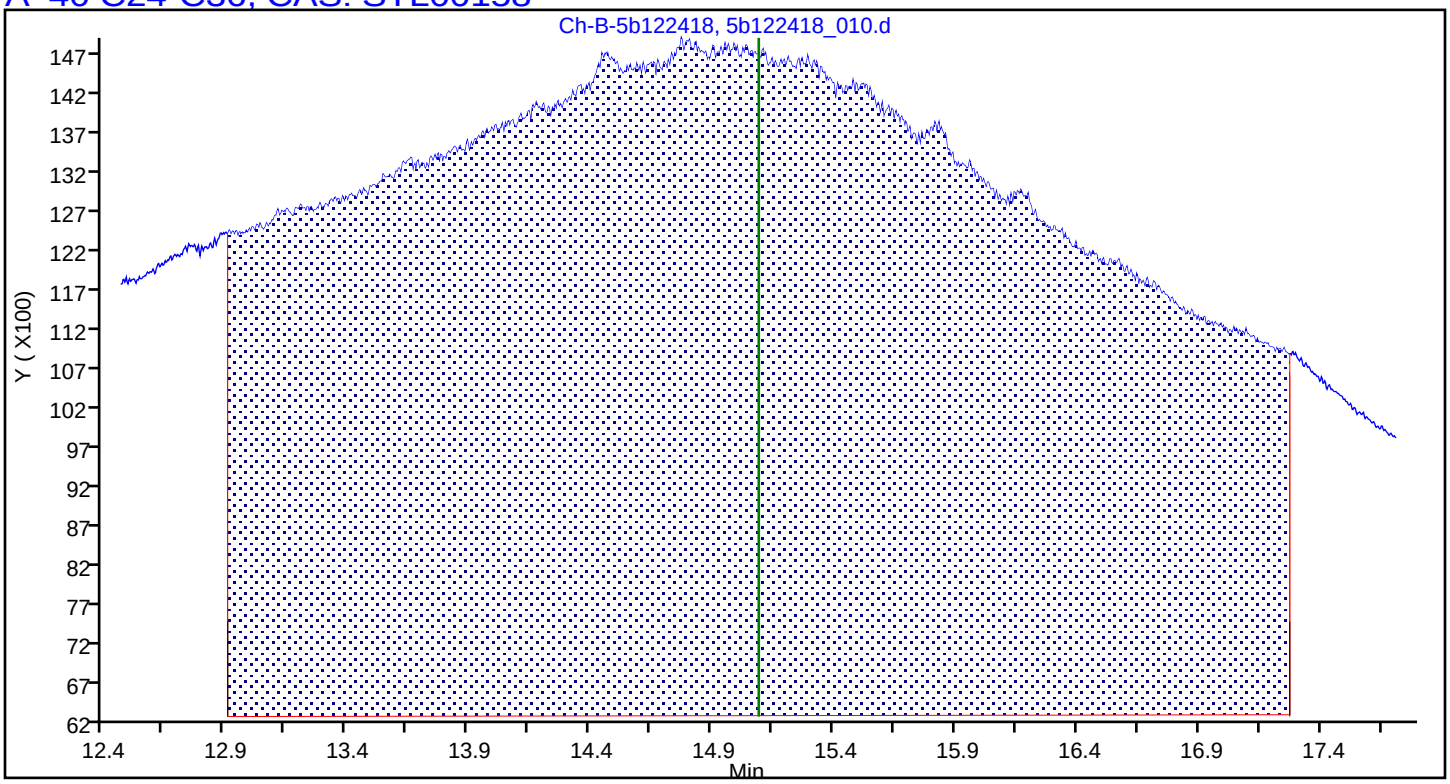


Report Date: 26-Dec-2018 13:04:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_010.d				
Injection Date:	24-Dec-2018 12:57:57	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-17-B	Lab Sample ID:	720-90412-17		
Client ID:	DG-Y3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



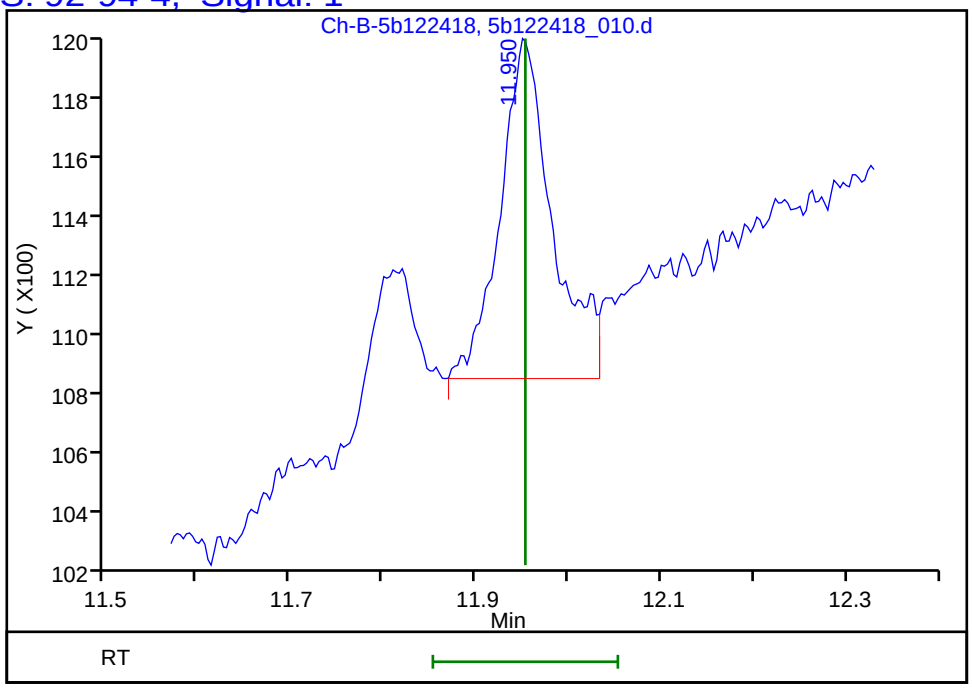
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_010.d				
Injection Date:	24-Dec-2018 12:57:57	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-17-B	Lab Sample ID:	720-90412-17		
Client ID:	DG-Y3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.95
Response: 21785
Amount: 1.730016



Reviewer: hayashid, 26-Dec-2018 10:58:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton | Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-Y3S-3.5-4 | Lab Sample ID: 720-90412-18

Matrix: Solid | Lab File ID: 5b122418_021.d

Analysis Method: 8015B | Date Collected: 12/18/2018 14:40

Extraction Method: 3546 | Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.03(g) | Date Analyzed: 12/24/2018 18:18

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 320(um)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	2.1	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	ND		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	95		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_021.d
Lims ID: 720-90412-E-18-B
Client ID: DG-Y3S-3.5-4
Sample Type: Client
Inject. Date: 24-Dec-2018 18:18:20 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 100 Name: 720-0055819-021
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:16:22 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:16:22

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.607	2.698	-0.091	570	NC	
	23 n-Decane	3.957	3.912	0.045	410	NC	
A	1 C9-C13	4.653	(2.698-6.608)		8124	0.6414	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		8124	0.7147	
A	57 C10-C12	4.860	(3.912-5.808)		4865	0.4955	
	24 Dodecane	5.741	5.808	-0.067	606	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		17661	1.25	
A	47 C9 - C18	6.296	(2.698-9.894)		25422	2.26	
A	60 C10-C16	6.299	(3.912-8.686)		14249	1.14	
A	15 Kerosene	6.574	(2.698-10.449)		28243	2.51	
A	25 C9-C19	6.574	(2.698-10.449)		28243	1.99	
	26 C13	6.573	6.608	-0.035	342	NC	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		9990	1.02	
A	62 C10-C20	7.448	(3.912-10.983)		46436	4.73	
A	28 C9-C24	7.803	(2.698-12.907)		102569	10.4	
A	29 C9-C25	8.021	(2.698-13.343)		111092	11.3	
A	54 C10-C23	8.184	(3.912-12.455)		86748	8.84	
A	4 C10-C24	8.410	(3.912-12.907)		100447	10.2	
A	16 C10-C25	8.627	(3.912-13.343)		108970	11.1	
	45 Hexadecane	8.683	8.686	-0.003	626	NC	
A	14 C10-C26	8.837	(3.912-13.762)		120285	12.3	
A	67 C12-C22	8.896	(5.808-11.985)		69292	7.06	
A	5 Diesel	9.235	(3.912-14.558)		155820	15.9	
A	32 C10-C28	9.235	(3.912-14.558)		155820	15.9	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		155820	NC	
A	30 C13-C22	9.296	(6.608-11.985)		67891	6.91	
	44 Heptadecane	9.317	9.315	0.002	445	NC	
A	31 C12-C24	9.358	(5.808-12.907)		96188	9.80	
	49 n-Octadecane		9.894			ND	
A	52 Mineral oil	9.987	(2.698-17.277)		898597	82.7	
A	9 Crude Oil Range Organics (	9.314	(2.698-15.930)		597934	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		246039	NC	
33 C19	10.464	10.449	0.015	693	NC	
A 64 C13-C28	10.583	(6.608-14.558)		150160	15.3	
A 17 C10-C36	9.921	(3.912-15.930)		243917	24.8	
A 13 C9-C40	10.777	(2.698-18.856)		1376517	136.1	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		1376517	NC	
A 58 C16-C24	10.797	(8.686-12.907)		86824	8.84	
61 icosane	11.025	10.983	0.042	2263	NC	
A 6 C10-C40	11.384	(3.912-18.856)		1373352	136.0	
$ 34 p-Terphenyl	11.957	11.953	0.004	299419	23.8	
35 n-Docosane		11.985			ND	
A 18 C12-C40	12.332	(5.808-18.856)		1364322	135.5	
36 Tricosane	12.458	12.455	0.003	3047	NC	
A 66 C13-C40	12.732	(6.608-18.856)		1304256	131.5	
37 n-Tetracosane	12.905	12.907	-0.002	2865	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		738265	100.1	
38 C25	13.347	13.343	0.004	3730	NC	
46 n-Hexacosane	13.766	13.762	0.004	3940	NC	
A 19 C16-C40	13.771	(8.686-18.856)		1337351	133.6	
A 20 C19-C36	13.863	(10.449-17.277)		477899	61.3	
A 55 C23-C32	14.227	(12.455-16.000)		198176	46.0	
39 n-Octacosane	14.561	14.558	0.003	2294	NC	
65 C29	14.938	14.935	0.003	12675	NC	
A 40 C24-C36	15.092	(12.907-17.277)		406318	64.8	
A 7 Motor Oil	15.092	(12.907-17.277)		406318	64.8	
A 50 C25-C36	15.310	(13.343-17.277)		395413	66.7	
A 10 C22-C40	15.420	(11.985-18.856)		534603	60.3	
A 41 C23-C40	15.656	(12.455-18.856)		800821	92.5	
A 8 C24-C40	15.882	(12.907-18.856)		794178	94.9	
56 Dotriacontane		16.000			ND	
A 51 C28-C40	16.707	(14.558-18.856)		728322	109.5	
A 63 C29-C40	16.896	(14.935-18.856)		701663	115.1	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

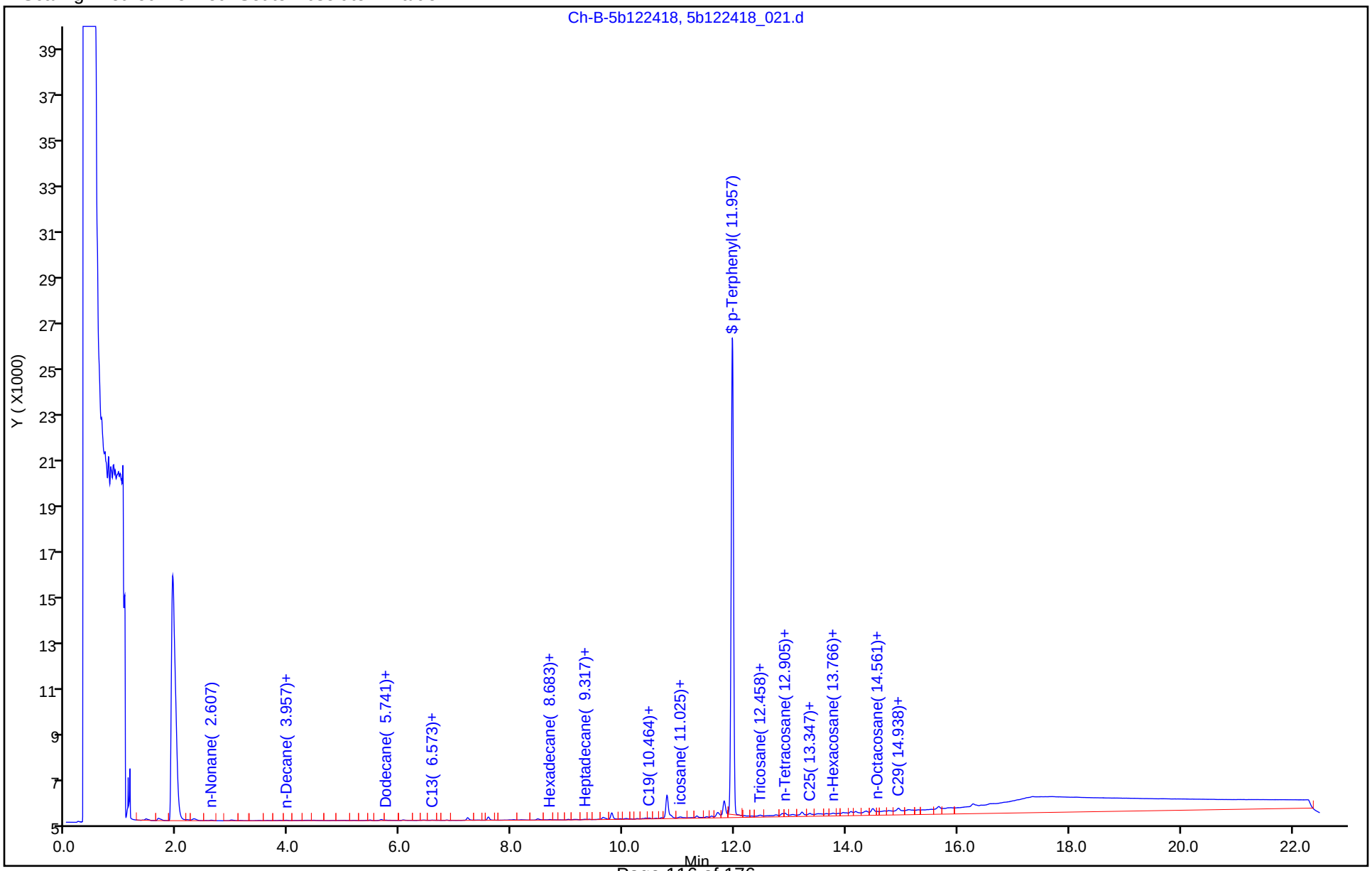
Report Date: 26-Dec-2018 12:16:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_021.d

Injection Date:	24-Dec-2018 18:18:20	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-18-B	Lab Sample ID:	720-90412-18	Worklist Smp#:	21
Client ID:	DG-Y3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_021.d				
Lims ID:	720-90412-E-18-B				
Client ID:	DG-Y3S-3.5-4				
Sample Type:	Client				
Inject. Date:	24-Dec-2018 18:18:20	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 100 Name: 720-0055819-021				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	26-Dec-2018 12:16:22	Calib Date:	24-Dec-2018 09:33:54		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				
First Level Reviewer: hayashid		Date:	26-Dec-2018 12:16:22		

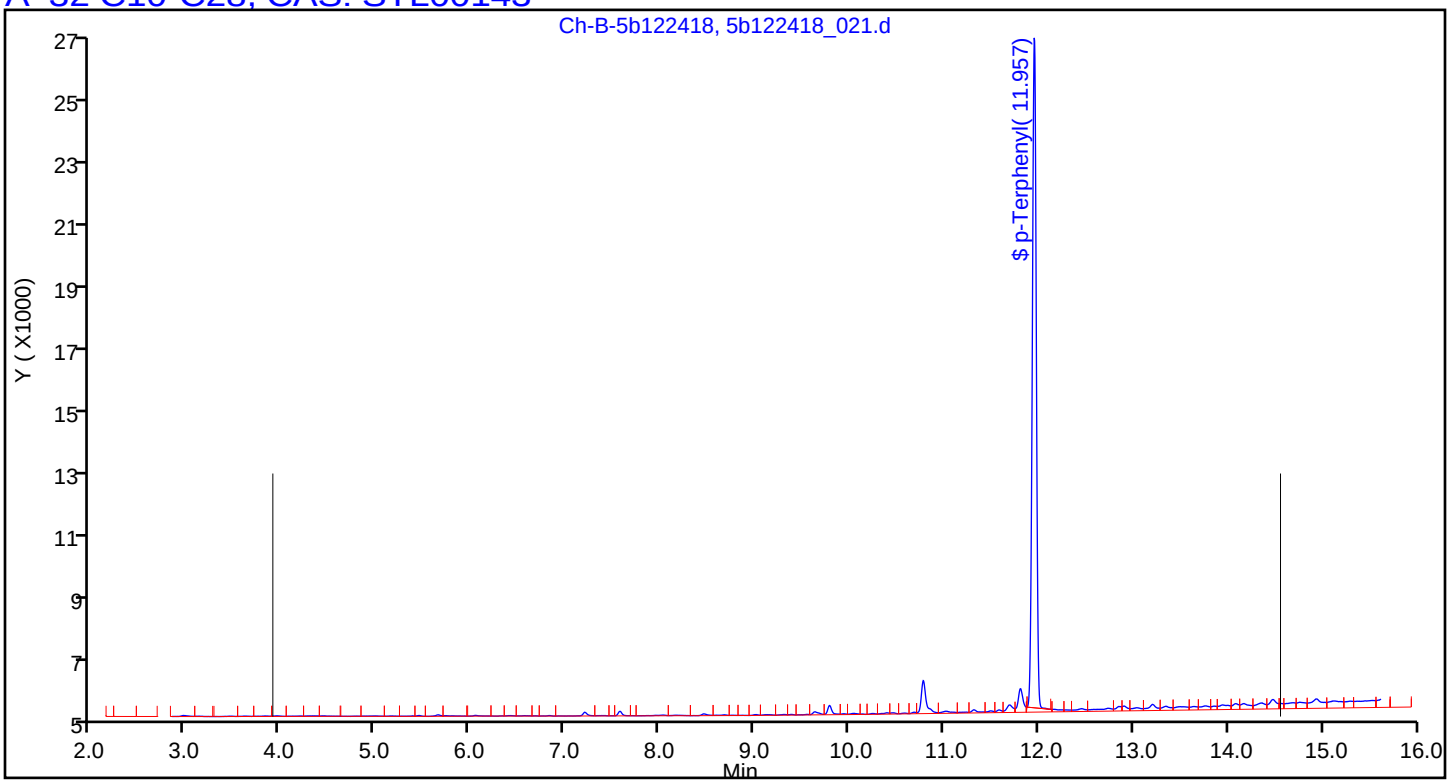
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.8	95.11

Report Date: 26-Dec-2018 12:16:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_021.d				
Injection Date:	24-Dec-2018 18:18:20	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-18-B	Lab Sample ID:	720-90412-18		
Client ID:	DG-Y3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

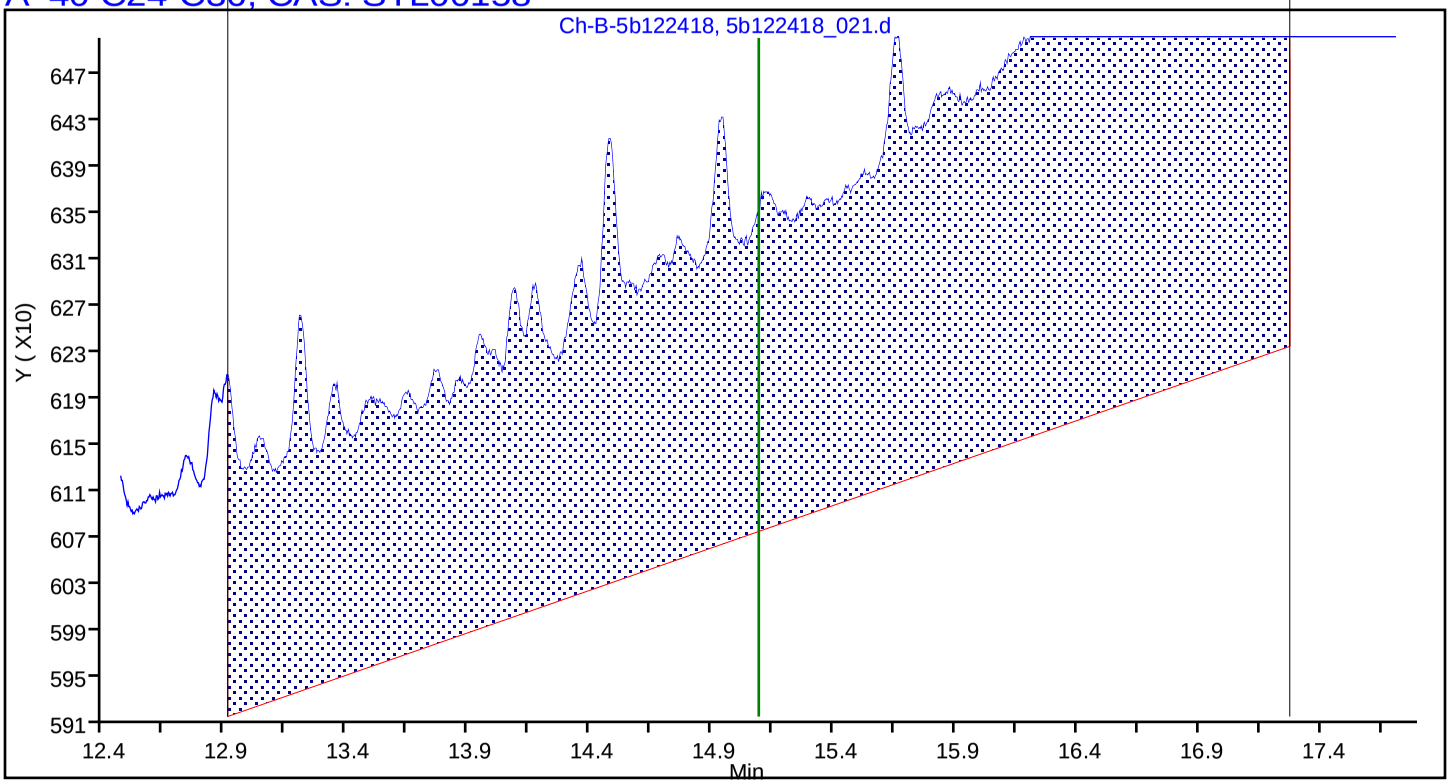


Report Date: 26-Dec-2018 12:16:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_021.d				
Injection Date:	24-Dec-2018 18:18:20	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-18-B	Lab Sample ID:	720-90412-18		
Client ID:	DG-Y3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-AA3S-0.5-1 Lab Sample ID: 720-90412-19

Matrix: Solid Lab File ID: 5b122418_015.d

Analysis Method: 8015B Date Collected: 12/18/2018 15:25

Extraction Method: 3546 Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.08(g) Date Analyzed: 12/24/2018 15:23

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 320(um)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	76	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	150		50	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	69		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_015.d
Lims ID: 720-90412-E-19-B
Client ID: DG-AA3S-0.5-1
Sample Type: Client
Inject. Date: 24-Dec-2018 15:23:32 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 104 Name: 720-0055819-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:14:09 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:14:09

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.732	2.698	0.034	1065	NC	
	23 n-Decane	3.922	3.912	0.010	2092	NC	
A	1 C9-C13	4.653	(2.698-6.608)		56211	4.44	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		56211	4.94	
A	57 C10-C12	4.860	(3.912-5.808)		27975	2.85	
	24 Dodecane	5.806	5.808	-0.002	4713	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		237307	16.8	
A	47 C9 - C18	6.296	(2.698-9.894)		367358	32.7	
A	60 C10-C16	6.299	(3.912-8.686)		169703	13.6	
A	15 Kerosene	6.574	(2.698-10.449)		511630	45.5	
A	25 C9-C19	6.574	(2.698-10.449)		511630	36.1	
	26 C13	6.604	6.608	-0.004	4242	NC	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		146441	14.9	
A	62 C10-C20	7.448	(3.912-10.983)		877150	89.3	
A	28 C9-C24	7.803	(2.698-12.907)		2911297	296.5	
A	29 C9-C25	8.021	(2.698-13.343)		3574052	364.0	
A	54 C10-C23	8.184	(3.912-12.455)		2375118	241.9	
A	4 C10-C24	8.410	(3.912-12.907)		2901744	295.5	
A	16 C10-C25	8.627	(3.912-13.343)		3564499	363.0	
	45 Hexadecane	8.686	8.686	0.000	8370	NC	
A	14 C10-C26	8.837	(3.912-13.762)		4146415	422.3	
A	67 C12-C22	8.896	(5.808-11.985)		1751439	178.4	
A	5 Diesel	9.235	(3.912-14.558)		5626519	573.1	
A	32 C10-C28	9.235	(3.912-14.558)		5626519	573.1	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		5626519	NC	
A	30 C13-C22	9.296	(6.608-11.985)		1732285	176.4	
	44 Heptadecane	9.334	9.315	0.019	46530	NC	
A	31 C12-C24	9.358	(5.808-12.907)		2878482	293.2	
	49 n-Octadecane	9.897	9.894	0.003	29225	NC	
A	52 Mineral oil	9.987	(2.698-17.277)		11271123	1037.5	
A	9 Crude Oil Range Organics (	9.987	(2.698-17.277)		11271123	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		13121482	NC	
33 C19	10.451	10.449	0.002	103392	NC	
A 64 C13-C28	10.583	(6.608-14.558)		5584103	568.7	
A 17 C10-C36	10.594	(3.912-17.277)		13111929	1335.5	
A 13 C9-C40	10.777	(2.698-18.856)		12838563	1269.8	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		12838563	NC	
A 58 C16-C24	10.797	(8.686-12.907)		2740411	279.1	
61 icosane	10.988	10.983	0.005	91394	NC	
A 6 C10-C40	11.384	(3.912-18.856)		12824823	1270.1	
$ 34 p-Terphenyl	11.957	11.953	0.004	216306	17.2	
35 n-Docosane	12.083	11.985	0.098	109378	NC	
A 18 C12-C40	12.332	(5.808-18.856)		12772714	1268.9	
36 Tricosane	12.460	12.455	0.005	249022	NC	
A 66 C13-C40	12.732	(6.608-18.856)		12244570	1234.5	
37 n-Tetracosane	12.909	12.907	0.002	256051	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		8455014	1145.9	
38 C25	13.349	13.343	0.006	186328	NC	
46 n-Hexacosane	13.767	13.762	0.005	234394	NC	
A 19 C16-C40	13.771	(8.686-18.856)		12530848	1251.9	
A 20 C19-C36	13.863	(10.449-17.277)		8758030	1123.2	
A 55 C23-C32	14.227	(12.455-16.000)		5958996	1383.5	
39 n-Octacosane	14.482	14.558	-0.076	279426	NC	
65 C29	14.946	14.935	0.011	721691	NC	
A 40 C24-C36	15.092	(12.907-17.277)		7219350	1152.0	
A 7 Motor Oil	15.092	(12.907-17.277)		7219350	1152.0	
A 50 C25-C36	15.310	(13.343-17.277)		6628810	1118.5	
A 10 C22-C40	15.420	(11.985-18.856)		9458845	1067.1	
A 41 C23-C40	15.656	(12.455-18.856)		9132302	1055.0	
A 8 C24-C40	15.882	(12.907-18.856)		8577756	1025.1	
56 Dotriacontane	16.008	16.000	0.008	327021	NC	
A 51 C28-C40	16.707	(14.558-18.856)		6007286	902.9	
A 63 C29-C40	16.896	(14.935-18.856)		5236178	858.8	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

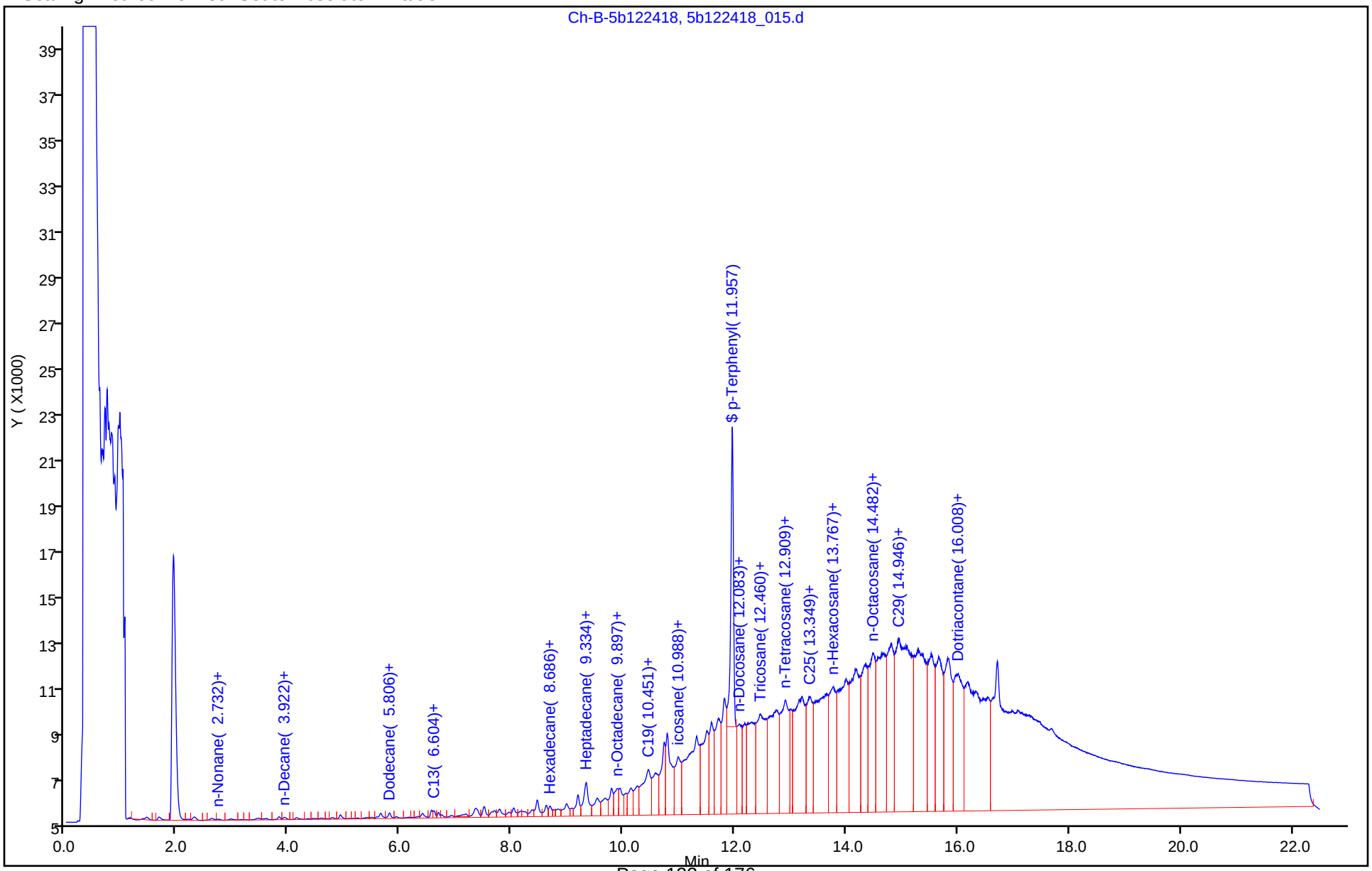
Report Date: 26-Dec-2018 12:14:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_015.d

Injection Date:	24-Dec-2018 15:23:32	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-19-B	Lab Sample ID:	720-90412-19	Worklist Smp#:	15
Client ID:	DG-AA3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_015.d				
Lims ID:	720-90412-E-19-B				
Client ID:	DG-AA3S-0.5-1				
Sample Type:	Client				
Inject. Date:	24-Dec-2018 15:23:32	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 104 Name: 720-0055819-015				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	26-Dec-2018 12:14:09	Calib Date:	24-Dec-2018 09:33:54		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				
First Level Reviewer: hayashid		Date:	26-Dec-2018 12:14:09		

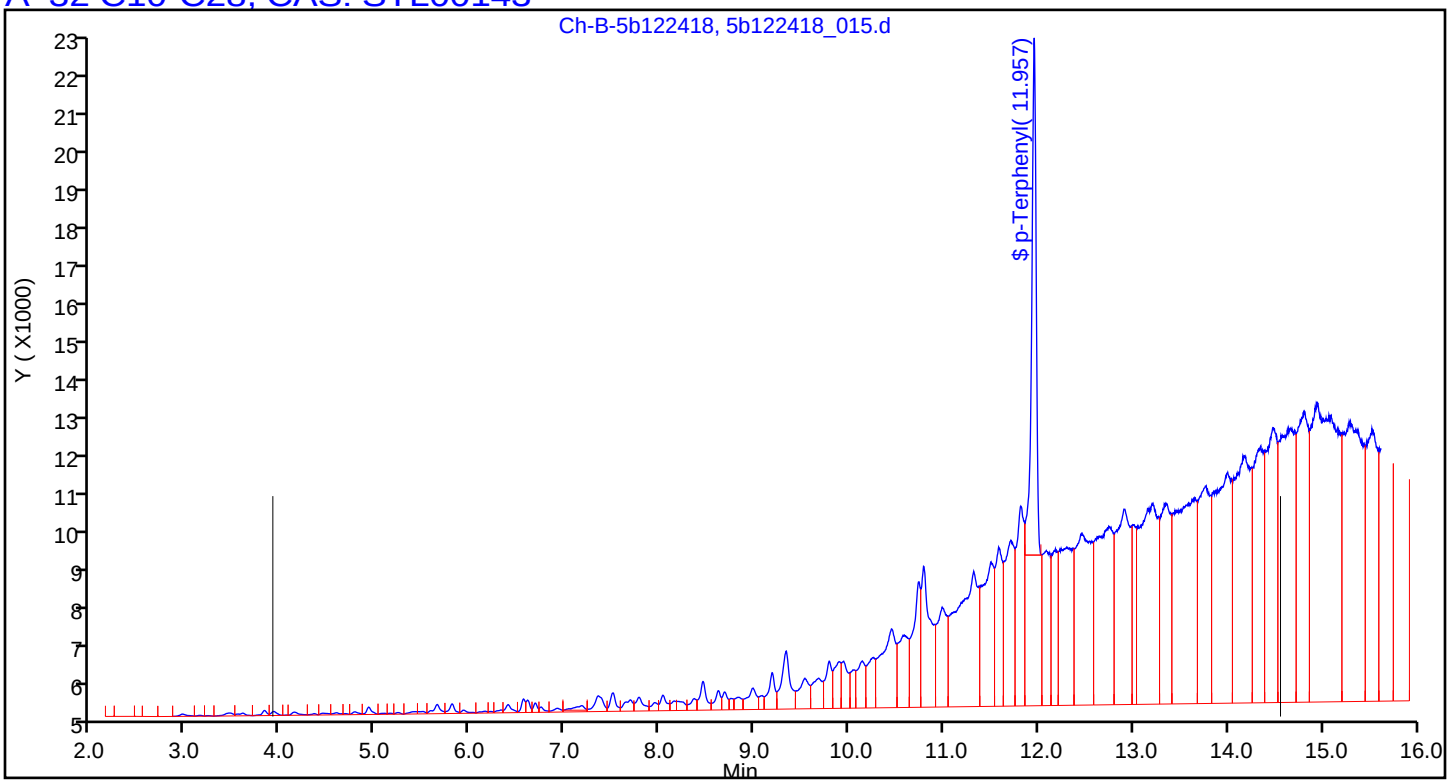
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	17.2	68.71

Report Date: 26-Dec-2018 12:14:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_015.d				
Injection Date:	24-Dec-2018 15:23:32	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-19-B	Lab Sample ID:	720-90412-19		
Client ID:	DG-AA3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

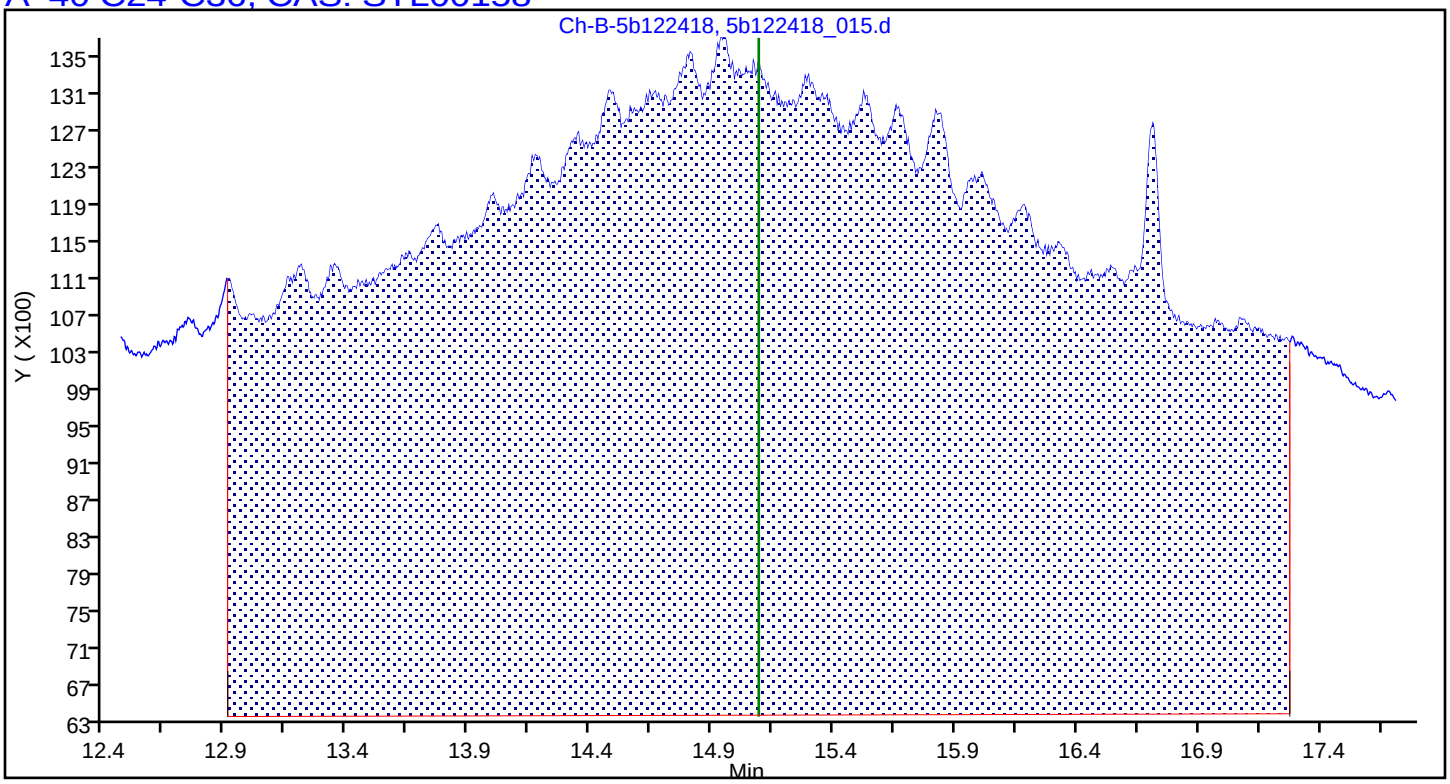


Report Date: 26-Dec-2018 12:14:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_015.d				
Injection Date:	24-Dec-2018 15:23:32	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-19-B	Lab Sample ID:	720-90412-19		
Client ID:	DG-AA3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton | Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-AA3S-3.5-4 | Lab Sample ID: 720-90412-20

Matrix: Solid | Lab File ID: 5b122418_022.d

Analysis Method: 8015B | Date Collected: 12/18/2018 15:25

Extraction Method: 3546 | Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.03(g) | Date Analyzed: 12/24/2018 18:47

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 320(um)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	1.9	J B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	14	J	50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	92		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_022.d
Lims ID: 720-90412-E-20-B
Client ID: DG-AA3S-3.5-4
Sample Type: Client
Inject. Date: 24-Dec-2018 18:47:42 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 130 Name: 720-0055819-022
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:16:38 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:16:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.733	2.698	0.035	307	NC	
	23 n-Decane	3.935	3.912	0.023	1093	NC	
A	1 C9-C13	4.653	(2.698-6.608)		10563	0.8340	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		10563	0.9292	
A	57 C10-C12	4.860	(3.912-5.808)		6345	0.6462	
	24 Dodecane	5.813	5.808	0.005	699	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		18986	1.34	
A	47 C9 - C18	6.296	(2.698-9.894)		22457	2.00	
A	60 C10-C16	6.299	(3.912-8.686)		14137	1.13	
A	15 Kerosene	6.574	(2.698-10.449)		25105	2.23	
A	25 C9-C19	6.574	(2.698-10.449)		25105	1.77	
	26 C13	6.612	6.608	0.004	881	NC	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		7792	0.7936	
A	62 C10-C20	7.448	(3.912-10.983)		43915	4.47	
A	28 C9-C24	7.803	(2.698-12.907)		74719	7.61	
A	29 C9-C25	8.021	(2.698-13.343)		83348	8.49	
A	54 C10-C23	8.184	(3.912-12.455)		68920	7.02	
A	4 C10-C24	8.410	(3.912-12.907)		71831	7.32	
A	16 C10-C25	8.627	(3.912-13.343)		80460	8.19	
	45 Hexadecane	8.687	8.686	0.001	1004	NC	
A	14 C10-C26	8.837	(3.912-13.762)		91738	9.34	
A	67 C12-C22	8.896	(5.808-11.985)		58589	5.97	
A	5 Diesel	9.235	(3.912-14.558)		140695	14.3	
A	32 C10-C28	9.235	(3.912-14.558)		140695	14.3	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		140695	NC	
A	30 C13-C22	9.296	(6.608-11.985)		57259	5.83	
	44 Heptadecane	9.323	9.315	0.008	1457	NC	
A	31 C12-C24	9.358	(5.808-12.907)		65486	6.67	
	49 n-Octadecane	9.943	9.894	0.049	1400	NC	
A	52 Mineral oil	9.987	(2.698-17.277)		1185126	109.1	
A	9 Crude Oil Range Organics (	9.394	(2.698-16.090)		846411	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		341875	NC	
33 C19	10.454	10.449	0.005	1845	NC	
A 64 C13-C28	10.583	(6.608-14.558)		133020	13.5	
A 17 C10-C36	10.001	(3.912-16.090)		338987	34.5	
A 13 C9-C40	10.777	(2.698-18.856)		1694068	167.6	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		1694068	NC	
A 58 C16-C24	10.797	(8.686-12.907)		57694	5.88	
61 icosane	10.989	10.983	0.006	1677	NC	
A 6 C10-C40	11.384	(3.912-18.856)		1689990	167.4	
$ 34 p-Terphenyl	11.957	11.953	0.004	289723	23.0	
35 n-Docosane		11.985			ND	
A 18 C12-C40	12.332	(5.808-18.856)		1678771	166.8	
36 Tricosane	12.462	12.455	0.007	908	NC	
A 66 C13-C40	12.732	(6.608-18.856)		1591833	160.5	
37 n-Tetracosane	12.908	12.907	0.001	4492	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		993035	134.6	
38 C25	13.346	13.343	0.003	4012	NC	
46 n-Hexacosane	13.764	13.762	0.002	4529	NC	
A 19 C16-C40	13.771	(8.686-18.856)		1648923	164.7	
A 20 C19-C36	13.863	(10.449-17.277)		615636	79.0	
A 55 C23-C32	14.227	(12.455-16.000)		393514	91.4	
39 n-Octacosane	14.489	14.558	-0.069	11796	NC	
65 C29	14.938	14.935	0.003	21417	NC	
A 40 C24-C36	15.092	(12.907-17.277)		665036	106.1	
A 7 Motor Oil	15.092	(12.907-17.277)		665036	106.1	
A 50 C25-C36	15.310	(13.343-17.277)		643974	108.7	
A 10 C22-C40	15.420	(11.985-18.856)		854679	96.4	
A 41 C23-C40	15.656	(12.455-18.856)		1103454	127.5	
A 8 C24-C40	15.882	(12.907-18.856)		1086525	129.8	
56 Dotriacontane	16.003	16.000	0.003	26368	NC	
A 51 C28-C40	16.707	(14.558-18.856)		961126	144.5	
A 63 C29-C40	16.896	(14.935-18.856)		904730	148.4	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

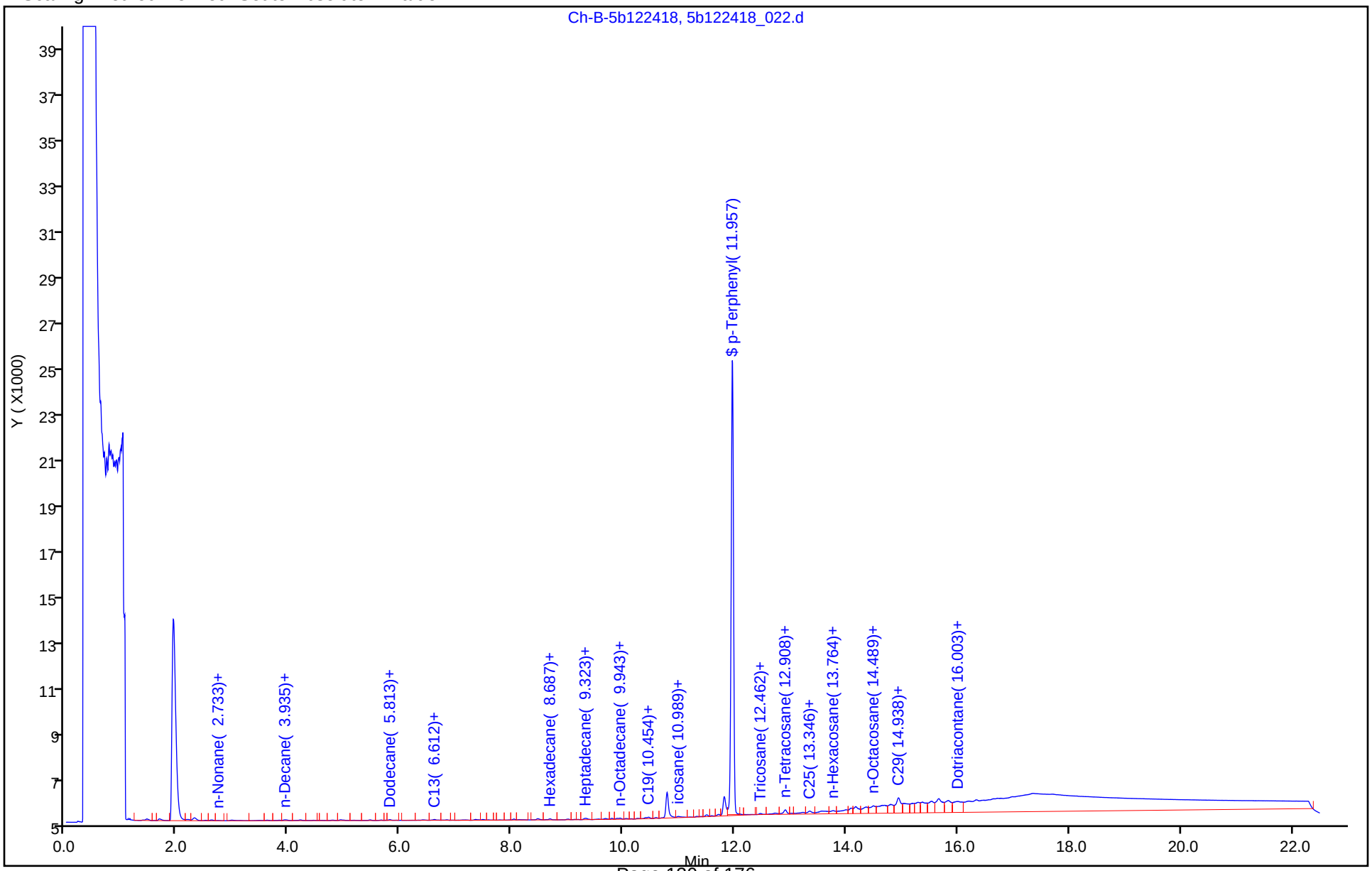
Report Date: 26-Dec-2018 12:16:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_022.d

Injection Date:	24-Dec-2018 18:47:42	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-20-B	Lab Sample ID:	720-90412-20	Worklist Smp#:	22
Client ID:	DG-AA3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_022.d				
Lims ID:	720-90412-E-20-B				
Client ID:	DG-AA3S-3.5-4				
Sample Type:	Client				
Inject. Date:	24-Dec-2018 18:47:42	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 130 Name: 720-0055819-022				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	26-Dec-2018 12:16:38	Calib Date:	24-Dec-2018 09:33:54		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				
First Level Reviewer: hayashid		Date:	26-Dec-2018 12:16:38		

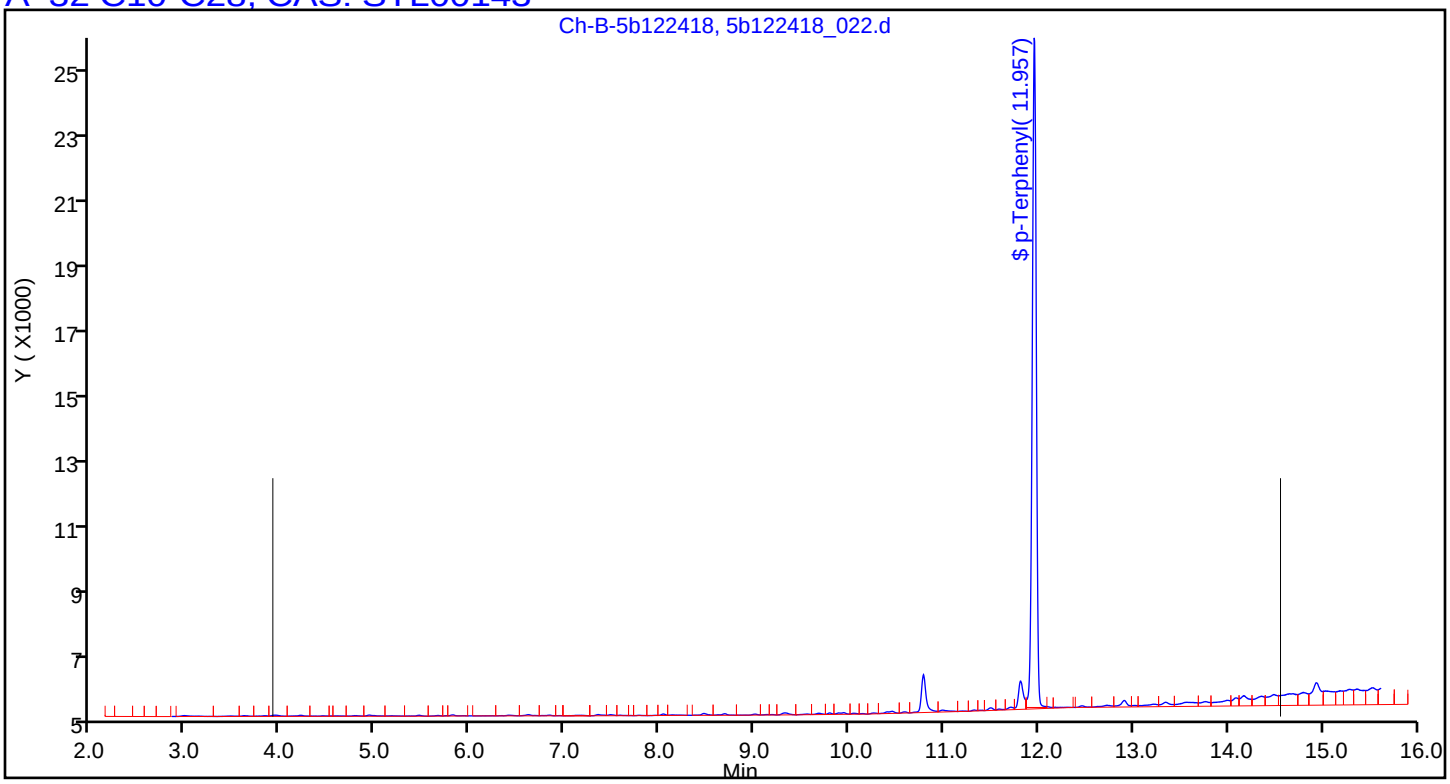
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.0	92.03

Report Date: 26-Dec-2018 12:16:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_022.d				
Injection Date:	24-Dec-2018 18:47:42	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-20-B	Lab Sample ID:	720-90412-20		
Client ID:	DG-AA3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

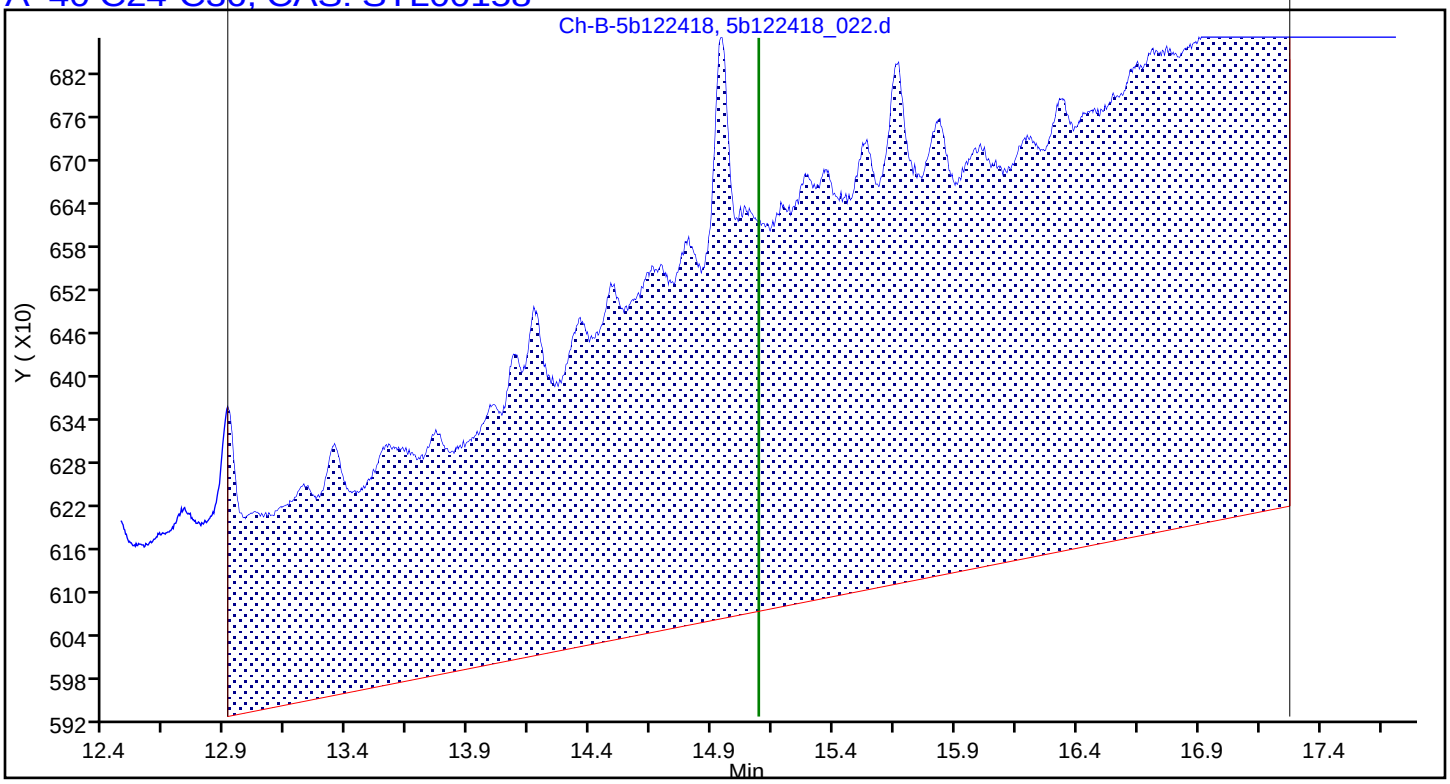


Report Date: 26-Dec-2018 12:16:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_022.d				
Injection Date:	24-Dec-2018 18:47:42	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-20-B	Lab Sample ID:	720-90412-20		
Client ID:	DG-AA3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton | Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-AA3S-7-7.5 | Lab Sample ID: 720-90412-21

Matrix: Solid | Lab File ID: 5b122418_023.d

Analysis Method: 8015B | Date Collected: 12/18/2018 15:25

Extraction Method: 3546 | Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.07(g) | Date Analyzed: 12/24/2018 19:16

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 320(um)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	2.0	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	ND		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	96		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_023.d
Lims ID: 720-90412-F-21-B
Client ID: DG-AA3S-7-7.5
Sample Type: Client
Inject. Date: 24-Dec-2018 19:16:48 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0055819-023
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:16:54 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:16:54

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.614	2.698	-0.084	610	NC	
	23 n-Decane		3.912			ND	
A	1 C9-C13	4.653	(2.698-6.608)		13999	1.11	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		13999	1.23	
A	57 C10-C12	4.860	(3.912-5.808)		7292	0.7427	
	24 Dodecane	5.807	5.808	-0.001	108	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		34126	2.42	
A	47 C9 - C18	6.296	(2.698-9.894)		40735	3.63	
A	60 C10-C16	6.299	(3.912-8.686)		28448	2.28	
A	15 Kerosene	6.574	(2.698-10.449)		48963	4.35	
A	25 C9-C19	6.574	(2.698-10.449)		48963	3.46	
	26 C13	6.560	6.608	-0.048	1247	NC	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		21264	2.17	
A	62 C10-C20	7.448	(3.912-10.983)		65784	6.70	
A	28 C9-C24	7.803	(2.698-12.907)		121377	12.4	
A	29 C9-C25	8.021	(2.698-13.343)		125827	12.8	
A	54 C10-C23	8.184	(3.912-12.455)		109366	11.1	
A	4 C10-C24	8.410	(3.912-12.907)		118825	12.1	
A	16 C10-C25	8.627	(3.912-13.343)		123275	12.6	
	45 Hexadecane	8.676	8.686	-0.010	541	NC	
A	14 C10-C26	8.837	(3.912-13.762)		129648	13.2	
A	67 C12-C22	8.896	(5.808-11.985)		84051	8.56	
A	5 Diesel	9.235	(3.912-14.558)		150027	15.3	
A	32 C10-C28	9.235	(3.912-14.558)		150027	15.3	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		150027	NC	
A	30 C13-C22	9.296	(6.608-11.985)		81035	8.25	
	44 Heptadecane	9.301	9.315	-0.014	777	NC	
A	31 C12-C24	9.358	(5.808-12.907)		111641	11.4	
	49 n-Octadecane		9.894			ND	
A	52 Mineral oil	9.987	(2.698-17.277)		889114	81.8	
A	9 Crude Oil Range Organics (	9.425	(2.813-16.037)		669227	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		191885	NC	
33 C19	10.399	10.449	-0.050	3984	NC	
A 64 C13-C28	10.583	(6.608-14.558)		139827	14.2	
A 17 C10-C36	9.974	(3.912-16.037)		189333	19.3	
A 13 C9-C40	10.777	(2.698-18.856)		1278827	126.5	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		1278827	NC	
A 58 C16-C24	10.797	(8.686-12.907)		90918	9.26	
61 icosane	11.033	10.983	0.050	3097	NC	
A 6 C10-C40	11.384	(3.912-18.856)		1275449	126.3	
$ 34 p-Terphenyl	11.957	11.953	0.004	301159	23.9	
35 n-Docosane		11.985			ND	
A 18 C12-C40	12.332	(5.808-18.856)		1259145	125.1	
36 Tricosane	12.438	12.455	-0.017	1917	NC	
A 66 C13-C40	12.732	(6.608-18.856)		1096975	110.6	
37 n-Tetracosane	12.905	12.907	-0.002	4474	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		577298	78.2	
38 C25	13.348	13.343	0.005	2966	NC	
46 n-Hexacosane	13.764	13.762	0.002	1395	NC	
A 19 C16-C40	13.771	(8.686-18.856)		1192586	119.1	
A 20 C19-C36	13.863	(10.449-17.277)		410563	52.7	
A 55 C23-C32	14.227	(12.455-16.000)		132124	30.7	
39 n-Octacosane	14.477	14.558	-0.081	5518	NC	
65 C29	14.941	14.935	0.006	2910	NC	
A 40 C24-C36	15.092	(12.907-17.277)		272590	43.5	
A 7 Motor Oil	15.092	(12.907-17.277)		272590	43.5	
A 50 C25-C36	15.310	(13.343-17.277)		262414	44.3	
A 10 C22-C40	15.420	(11.985-18.856)		316231	35.7	
A 41 C23-C40	15.656	(12.455-18.856)		579179	66.9	
A 8 C24-C40	15.882	(12.907-18.856)		570347	68.2	
56 Dotriacontane	16.006	16.000	0.006	6578	NC	
A 51 C28-C40	16.707	(14.558-18.856)		519539	78.1	
A 63 C29-C40	16.896	(14.935-18.856)		504065	82.7	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

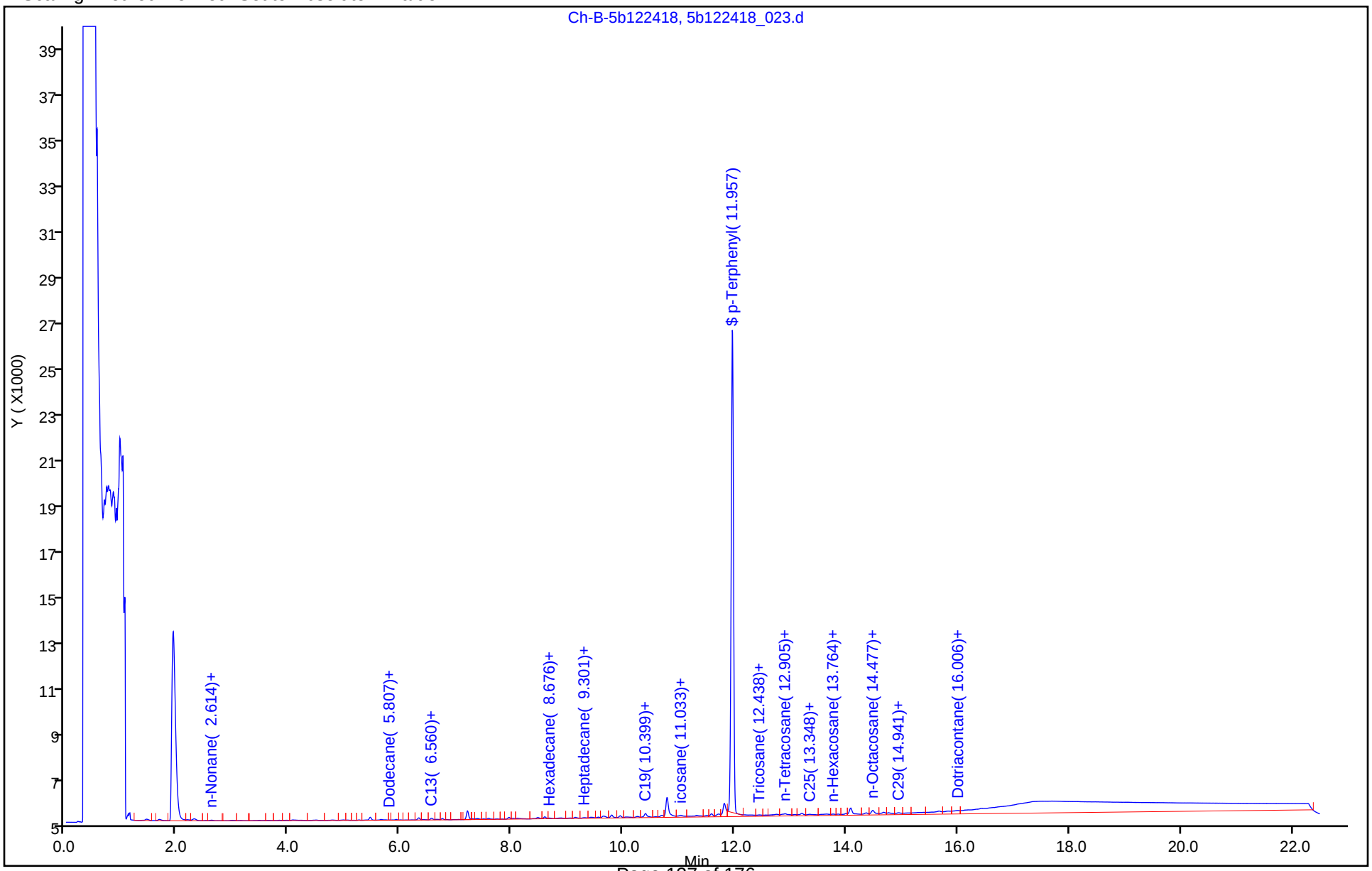
Report Date: 26-Dec-2018 12:16:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_023.d

Injection Date:	24-Dec-2018 19:16:48	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-F-21-B	Lab Sample ID:	720-90412-21	Worklist Smp#:	23
Client ID:	DG-AA3S-7-7.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_023.d				
Lims ID:	720-90412-F-21-B				
Client ID:	DG-AA3S-7-7.5				
Sample Type:	Client				
Inject. Date:	24-Dec-2018 19:16:48	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0055819-023				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	26-Dec-2018 12:16:54	Calib Date:	24-Dec-2018 09:33:54		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				

First Level Reviewer: hayashid Date: 26-Dec-2018 12:16:54

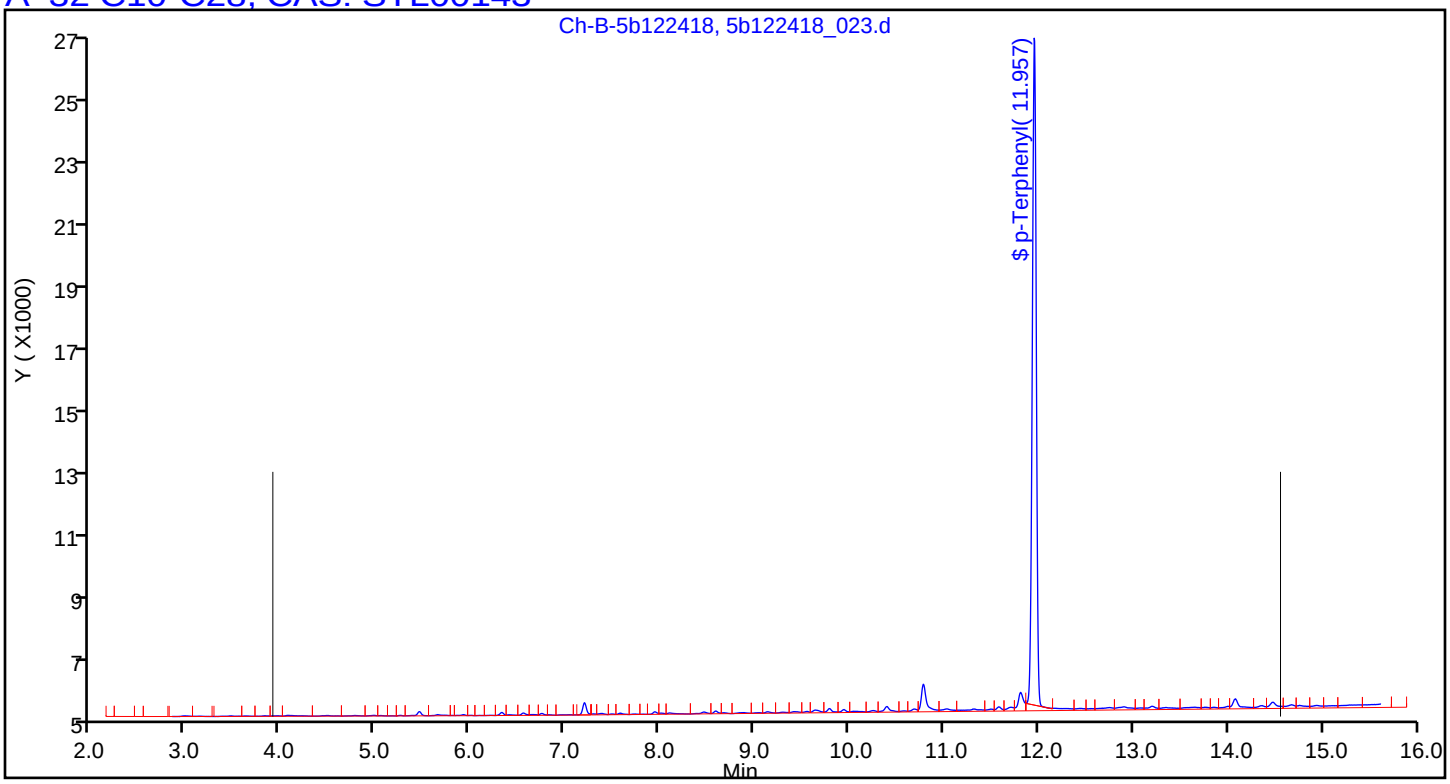
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.9	95.66

Report Date: 26-Dec-2018 12:16:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_023.d				
Injection Date:	24-Dec-2018 19:16:48	Instrument ID:	CHDRO5		
Lims ID:	720-90412-F-21-B	Lab Sample ID:	720-90412-21		
Client ID:	DG-AA3S-7-7.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

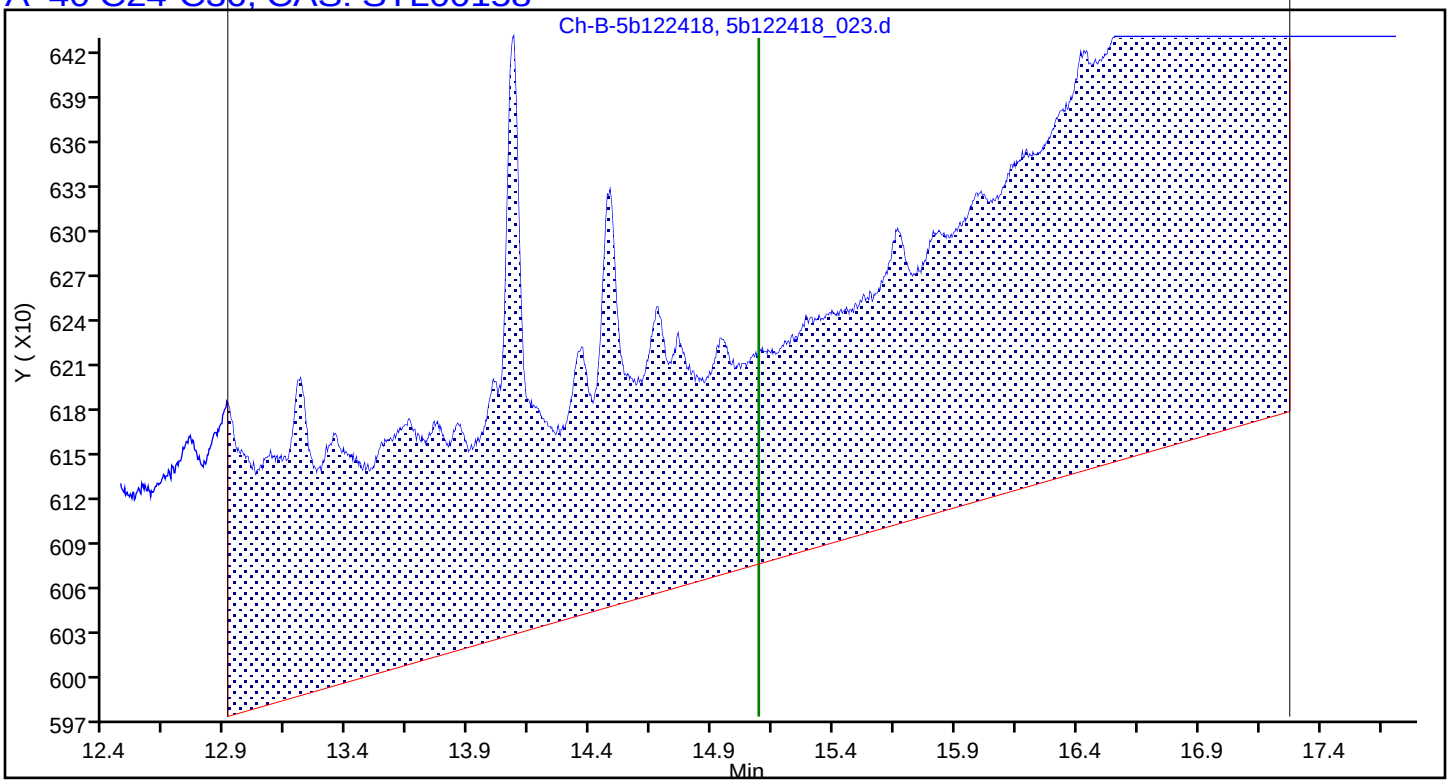


Report Date: 26-Dec-2018 12:16:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_023.d				
Injection Date:	24-Dec-2018 19:16:48	Instrument ID:	CHDRO5		
Lims ID:	720-90412-F-21-B	Lab Sample ID:	720-90412-21		
Client ID:	DG-AA3S-7-7.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton | Job No.: 720-90412-1

SDG No.:

Client Sample ID: DUP-16 | Lab Sample ID: 720-90412-22

Matrix: Solid | Lab File ID: 5b122418_012.d

Analysis Method: 8015B | Date Collected: 12/18/2018 00:00

Extraction Method: 3546 | Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.05(g) | Date Analyzed: 12/24/2018 13:56

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 320(um)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	97	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	180		50	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	58		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_012.d
Lims ID: 720-90412-E-22-B
Client ID: DUP-16
Sample Type: Client
Inject. Date: 24-Dec-2018 13:56:19 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 141 Name: 720-0055819-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 10:59:44 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 10:59:44

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.732	2.698	0.034	967	NC	
	23 n-Decane	3.921	3.912	0.009	1967	NC	
A	1 C9-C13	4.653	(2.698-6.608)		84410	6.66	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		84410	7.43	
A	57 C10-C12	4.860	(3.912-5.808)		41846	4.26	
	24 Dodecane	5.805	5.808	-0.003	5593	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		408835	28.9	
A	47 C9 - C18	6.296	(2.698-9.894)		630094	56.1	
A	60 C10-C16	6.299	(3.912-8.686)		292411	23.4	
A	15 Kerosene	6.574	(2.698-10.449)		835166	74.2	
A	25 C9-C19	6.574	(2.698-10.449)		835166	59.0	
	26 C13	6.560	6.608	-0.048	11676	NC	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		256158	26.1	
A	62 C10-C20	7.448	(3.912-10.983)		1387200	141.3	
A	28 C9-C24	7.803	(2.698-12.907)		4050856	412.6	
A	29 C9-C25	8.021	(2.698-13.343)		4817331	490.7	
A	54 C10-C23	8.184	(3.912-12.455)		3385650	344.8	
A	4 C10-C24	8.410	(3.912-12.907)		4038597	411.3	
A	16 C10-C25	8.627	(3.912-13.343)		4805072	489.4	
	45 Hexadecane	8.686	8.686	0.000	10039	NC	
A	14 C10-C26	8.837	(3.912-13.762)		5493199	559.5	
A	67 C12-C22	8.896	(5.808-11.985)		2610643	265.9	
A	5 Diesel	9.235	(3.912-14.558)		7173437	730.6	
A	32 C10-C28	9.235	(3.912-14.558)		7173437	730.6	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		7173437	NC	
A	30 C13-C22	9.296	(6.608-11.985)		2586421	263.4	
	44 Heptadecane	9.336	9.315	0.021	70779	NC	
A	31 C12-C24	9.358	(5.808-12.907)		4002344	407.6	
	49 n-Octadecane	9.896	9.894	0.002	28380	NC	
A	52 Mineral oil	9.987	(2.698-17.277)		13444874	1237.6	
A	9 Crude Oil Range Organics (	9.987	(2.698-17.277)		13444874	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		14012438	NC	
33 C19	10.453	10.449	0.004	159355	NC	
A 64 C13-C28	10.583	(6.608-14.558)		7112962	724.5	
A 17 C10-C36	10.594	(3.912-17.277)		14000179	1425.9	
A 13 C9-C40	10.777	(2.698-18.856)		15058200	1489.4	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		15058200	NC	
A 58 C16-C24	10.797	(8.686-12.907)		3756225	382.6	
61 icosane	10.992	10.983	0.009	134184	NC	
A 6 C10-C40	11.384	(3.912-18.856)		15042075	1489.7	
$ 34 p-Terphenyl	11.953	11.953	0.000	183583	14.6	
35 n-Docosane	12.075	11.985	0.090	150926	NC	
A 18 C12-C40	12.332	(5.808-18.856)		14982645	1488.5	
36 Tricosane	12.460	12.455	0.005	279910	NC	
A 66 C13-C40	12.732	(6.608-18.856)		14386571	1450.5	
37 n-Tetracosane	12.911	12.907	0.004	259648	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		9482618	1285.2	
38 C25	13.348	13.343	0.005	237750	NC	
46 n-Hexacosane	13.766	13.762	0.004	233002	NC	
A 19 C16-C40	13.771	(8.686-18.856)		14667763	1465.4	
A 20 C19-C36	13.863	(10.449-17.277)		11026883	1414.1	
A 55 C23-C32	14.227	(12.455-16.000)		6895846	1601.0	
39 n-Octacosane	14.568	14.558	0.010	140512	NC	
65 C29	14.942	14.935	0.007	564623	NC	
A 40 C24-C36	15.092	(12.907-17.277)		8653929	1380.9	M
A 7 Motor Oil	15.092	(12.907-17.277)		8440729	1346.9	
A 50 C25-C36	15.310	(13.343-17.277)		7760583	1309.4	
A 10 C22-C40	15.420	(11.985-18.856)		10996272	1240.6	
A 41 C23-C40	15.656	(12.455-18.856)		10515551	1214.8	
A 8 C24-C40	15.882	(12.907-18.856)		9863270	1178.7	
56 Dotriacontane	16.016	16.000	0.016	402042	NC	
A 51 C28-C40	16.707	(14.558-18.856)		6940453	1043.2	
A 63 C29-C40	16.896	(14.935-18.856)		6059643	993.9	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

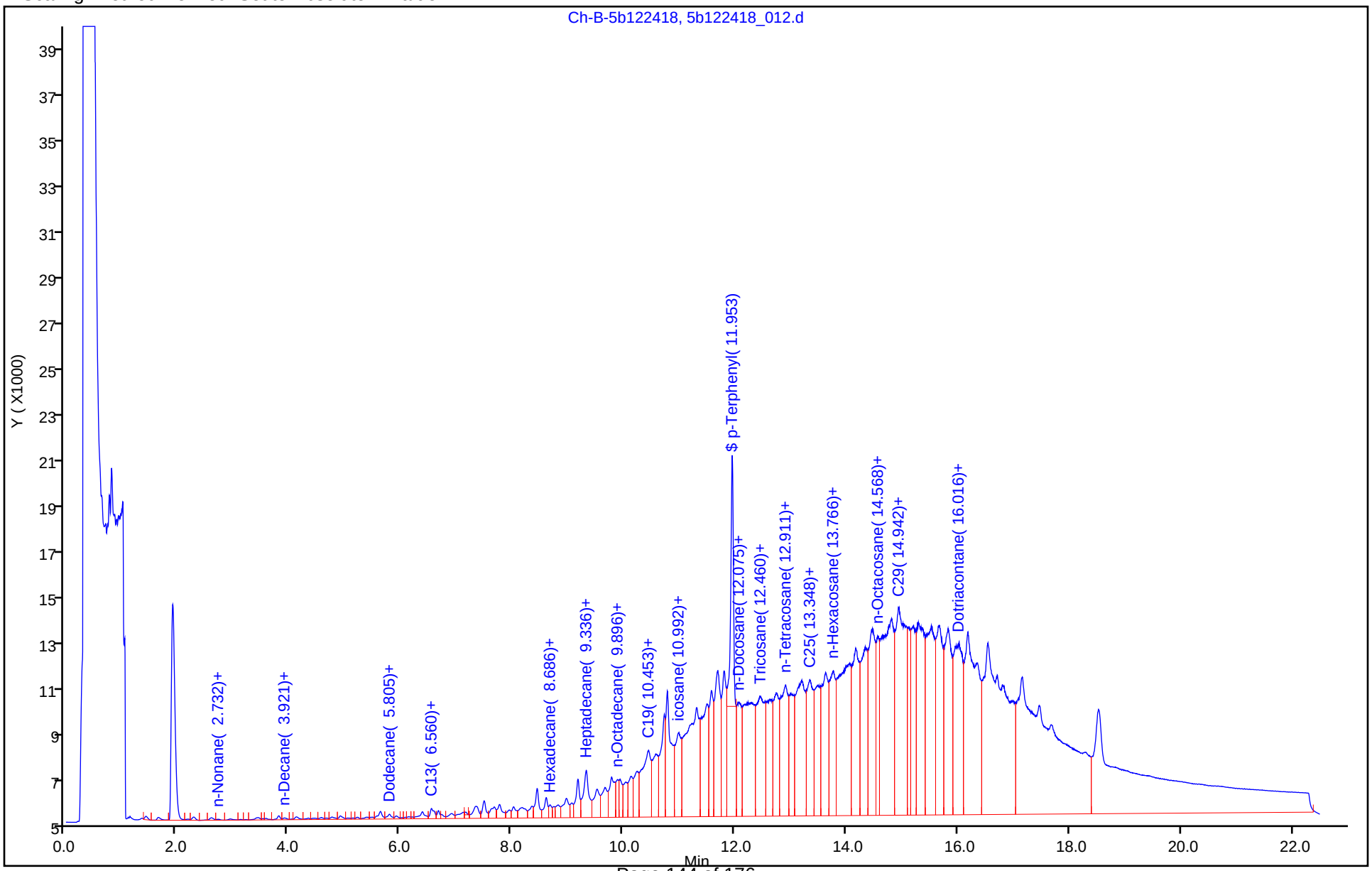
U - Marked Undetected

Report Date: 26-Dec-2018 10:59:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_012.d				
Injection Date:	24-Dec-2018 13:56:19	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-22-B	Lab Sample ID:	720-90412-22	Worklist Smp#:	12
Client ID:	DUP-16				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_012.d
Lims ID: 720-90412-E-22-B
Client ID: DUP-16
Sample Type: Client
Inject. Date: 24-Dec-2018 13:56:19 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 141 Name: 720-0055819-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 10:59:44 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 10:59:44

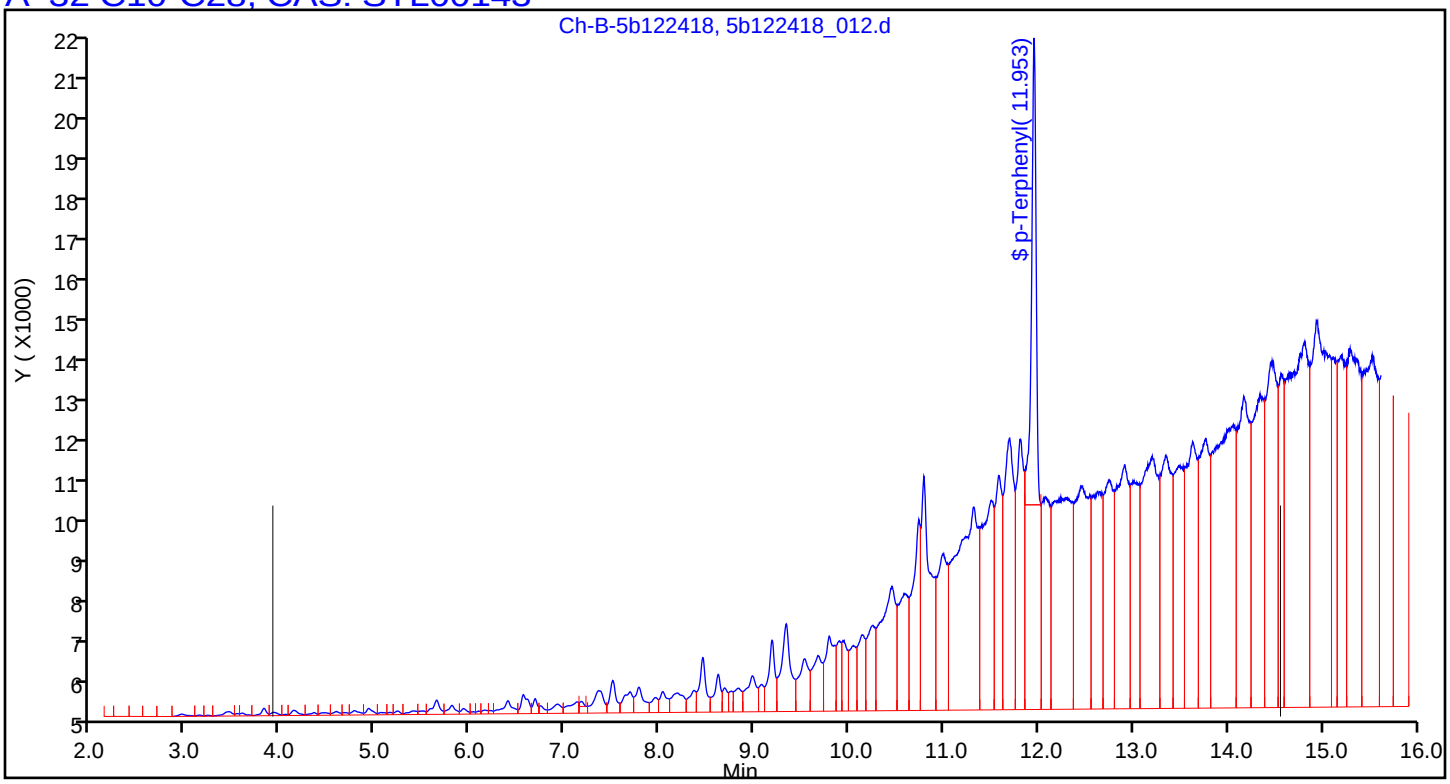
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	14.6	58.32

Report Date: 26-Dec-2018 10:59:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_012.d				
Injection Date:	24-Dec-2018 13:56:19	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-22-B	Lab Sample ID:	720-90412-22		
Client ID:	DUP-16				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

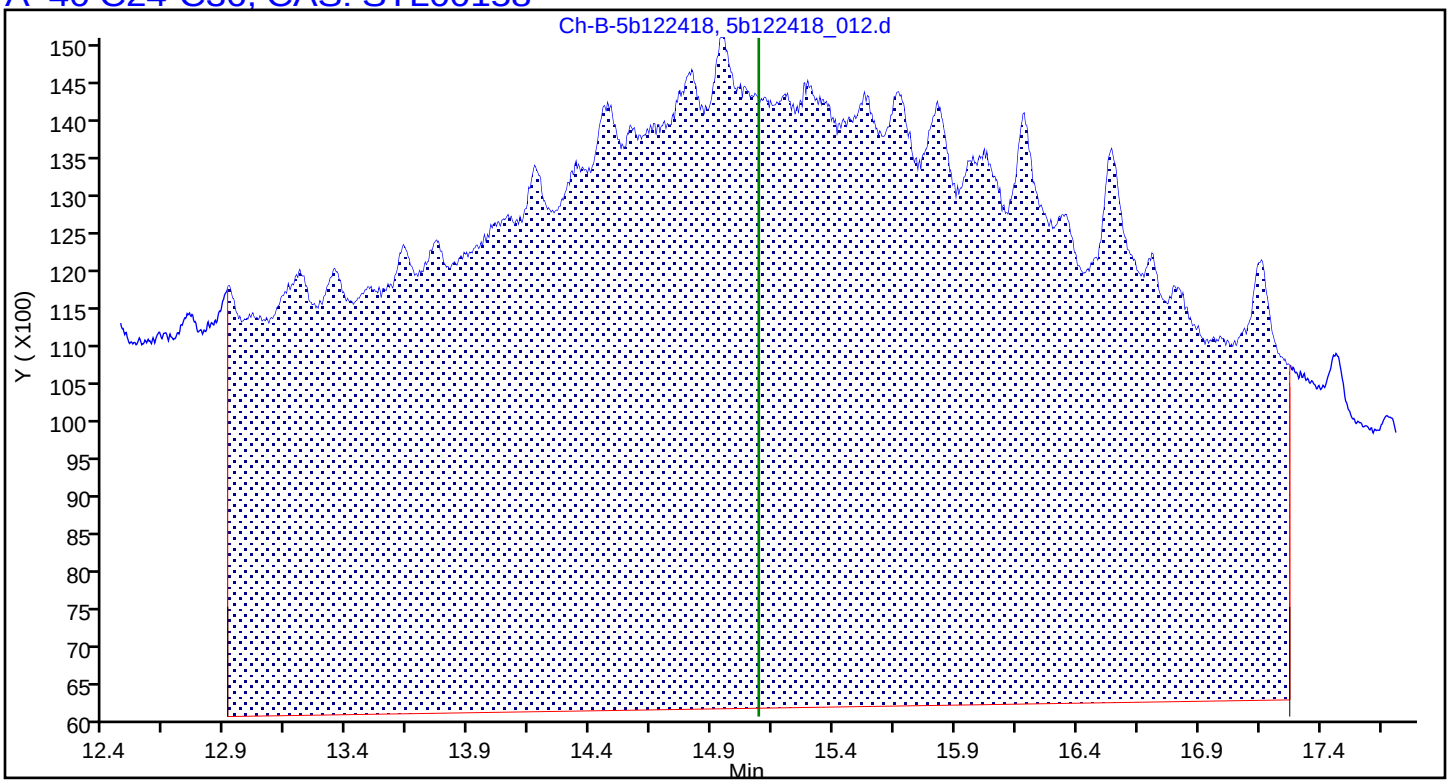


Report Date: 26-Dec-2018 10:59:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_012.d				
Injection Date:	24-Dec-2018 13:56:19	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-22-B	Lab Sample ID:	720-90412-22		
Client ID:	DUP-16				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

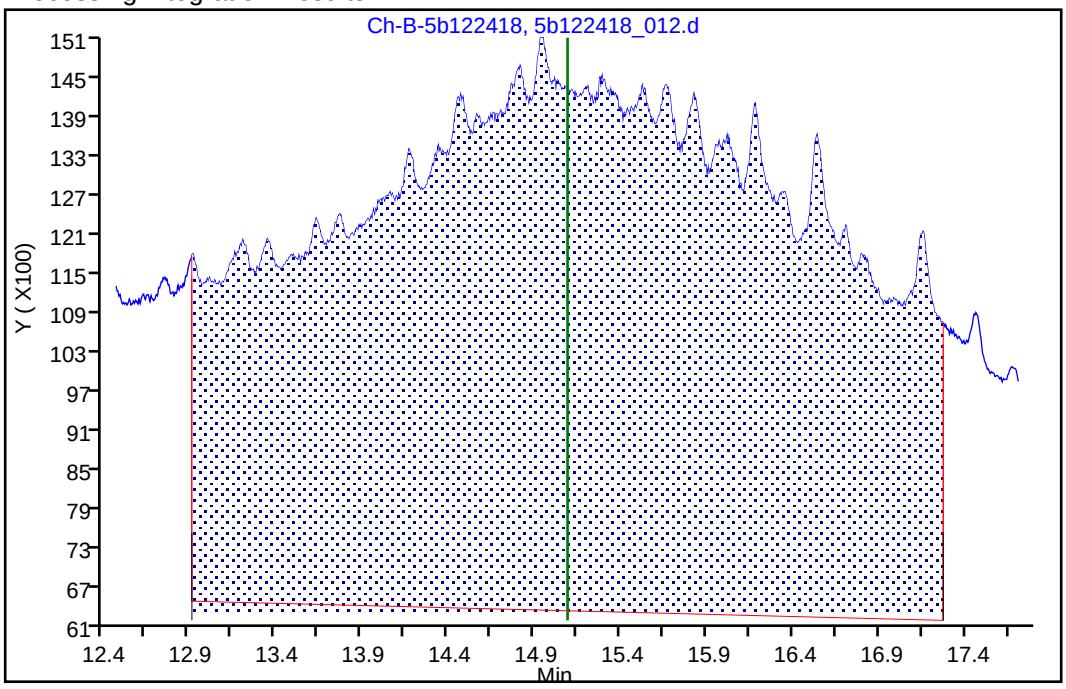
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_012.d				
Injection Date:	24-Dec-2018 13:56:19	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-22-B	Lab Sample ID:	720-90412-22		
Client ID:	DUP-16				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.092, CAS: STL00158

Signal: 1

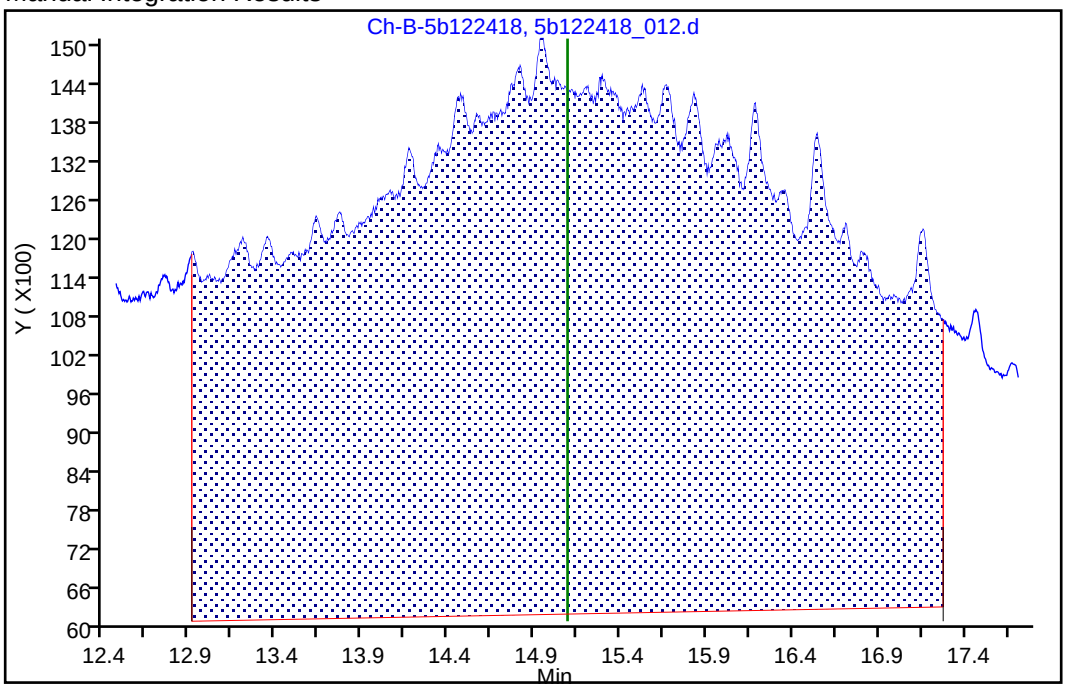
Processing Integration Results

RT: 15.09
Response: 8440729
Amount: 1346.9193



Manual Integration Results

RT: 15.09
Response: 8653929
Amount: 1380.9404



Reviewer: hayashid, 26-Dec-2018 10:59:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton | Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-AH4S-6-6.5 | Lab Sample ID: 720-90412-23

Matrix: Solid | Lab File ID: 5b122418_016.d

Analysis Method: 8015B | Date Collected: 12/18/2018 10:40

Extraction Method: 3546 | Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.10(g) | Date Analyzed: 12/24/2018 15:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 320(um)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	13	B	2.0	0.75
STL00158	Motor Oil Range Organics [C24-C36]	34	J	50	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	80		40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_016.d
Lims ID: 720-90412-A-23-A
Client ID: DG-AH4S-6-6.5
Sample Type: Client
Inject. Date: 24-Dec-2018 15:52:48 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 105 Name: 720-0055819-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:14:35 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:14:35

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.728	2.698	0.030	543	NC	
	23 n-Decane	3.922	3.912	0.010	1334	NC	
A	1 C9-C13	4.653	(2.698-6.608)		22257	1.76	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		22257	1.96	
A	57 C10-C12	4.860	(3.912-5.808)		12166	1.24	
	24 Dodecane	5.809	5.808	0.001	2649	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		62983	4.46	
A	47 C9 - C18	6.296	(2.698-9.894)		88631	7.90	
A	60 C10-C16	6.299	(3.912-8.686)		46951	3.76	
A	15 Kerosene	6.574	(2.698-10.449)		114093	10.1	
A	25 C9-C19	6.574	(2.698-10.449)		114093	8.06	
	26 C13	6.608	6.608	0.000	3951	NC	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		34785	3.54	
A	62 C10-C20	7.448	(3.912-10.983)		175394	17.9	
A	28 C9-C24	7.803	(2.698-12.907)		503637	51.3	
A	29 C9-C25	8.021	(2.698-13.343)		570341	58.1	
A	54 C10-C23	8.184	(3.912-12.455)		393750	40.1	
A	4 C10-C24	8.410	(3.912-12.907)		499549	50.9	
A	16 C10-C25	8.627	(3.912-13.343)		566253	57.7	
	45 Hexadecane	8.688	8.686	0.002	4979	NC	
A	14 C10-C26	8.837	(3.912-13.762)		636472	64.8	
A	67 C12-C22	8.896	(5.808-11.985)		301944	30.8	
A	5 Diesel	9.235	(3.912-14.558)		939356	95.7	
A	32 C10-C28	9.235	(3.912-14.558)		939356	95.7	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		939356	NC	
A	30 C13-C22	9.296	(6.608-11.985)		295941	30.1	
	44 Heptadecane	9.316	9.315	0.001	8352	NC	
A	31 C12-C24	9.358	(5.808-12.907)		487383	49.6	
	49 n-Octadecane	9.895	9.894	0.001	6512	NC	
A	52 Mineral oil	9.987	(2.698-17.277)		2783509	256.2	
A	9 Crude Oil Range Organics (	9.387	(2.698-16.077)		2150314	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		1547152	NC	
33 C19	10.461	10.449	0.012	9369	NC	
A 64 C13-C28	10.583	(6.608-14.558)		921187	93.8	
A 17 C10-C36	9.994	(3.912-16.077)		1543064	157.2	
A 13 C9-C40	10.777	(2.698-18.856)		3601804	356.2	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		3601804	NC	
A 58 C16-C24	10.797	(8.686-12.907)		452598	46.1	
61 icosane	10.987	10.983	0.004	8470	NC	
A 6 C10-C40	11.384	(3.912-18.856)		3594999	356.0	
$ 34 p-Terphenyl	11.957	11.953	0.004	253101	20.1	
35 n-Docosane		11.985			ND	
A 18 C12-C40	12.332	(5.808-18.856)		3565353	354.2	
36 Tricosane	12.479	12.455	0.024	27219	NC	
A 66 C13-C40	12.732	(6.608-18.856)		3299401	332.7	
37 n-Tetracosane	12.901	12.907	-0.006	36484	NC	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		2091701	283.5	
38 C25	13.359	13.343	0.016	28065	NC	
46 n-Hexacosane	13.763	13.762	0.001	58709	NC	
A 19 C16-C40	13.771	(8.686-18.856)		3459110	345.6	
A 20 C19-C36	13.863	(10.449-17.277)		1219087	156.3	
A 55 C23-C32	14.227	(12.455-16.000)		1107885	257.2	
39 n-Octacosane	14.482	14.558	-0.076	69115	NC	
65 C29	14.939	14.935	0.004	55626	NC	
A 40 C24-C36	15.092	(12.907-17.277)		1589692	253.7	
A 7 Motor Oil	15.092	(12.907-17.277)		1589692	253.7	
A 50 C25-C36	15.310	(13.343-17.277)		1501870	253.4	
A 10 C22-C40	15.420	(11.985-18.856)		2185090	246.5	
A 41 C23-C40	15.656	(12.455-18.856)		2348430	271.3	
A 8 C24-C40	15.882	(12.907-18.856)		2271949	271.5	
56 Dotriacontane	15.990	16.000	-0.010	55295	NC	
A 51 C28-C40	16.707	(14.558-18.856)		1834755	275.8	
A 63 C29-C40	16.896	(14.935-18.856)		1686456	276.6	
42 n-Hexatriacontane	17.326	17.277	0.049	1997128	NC	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

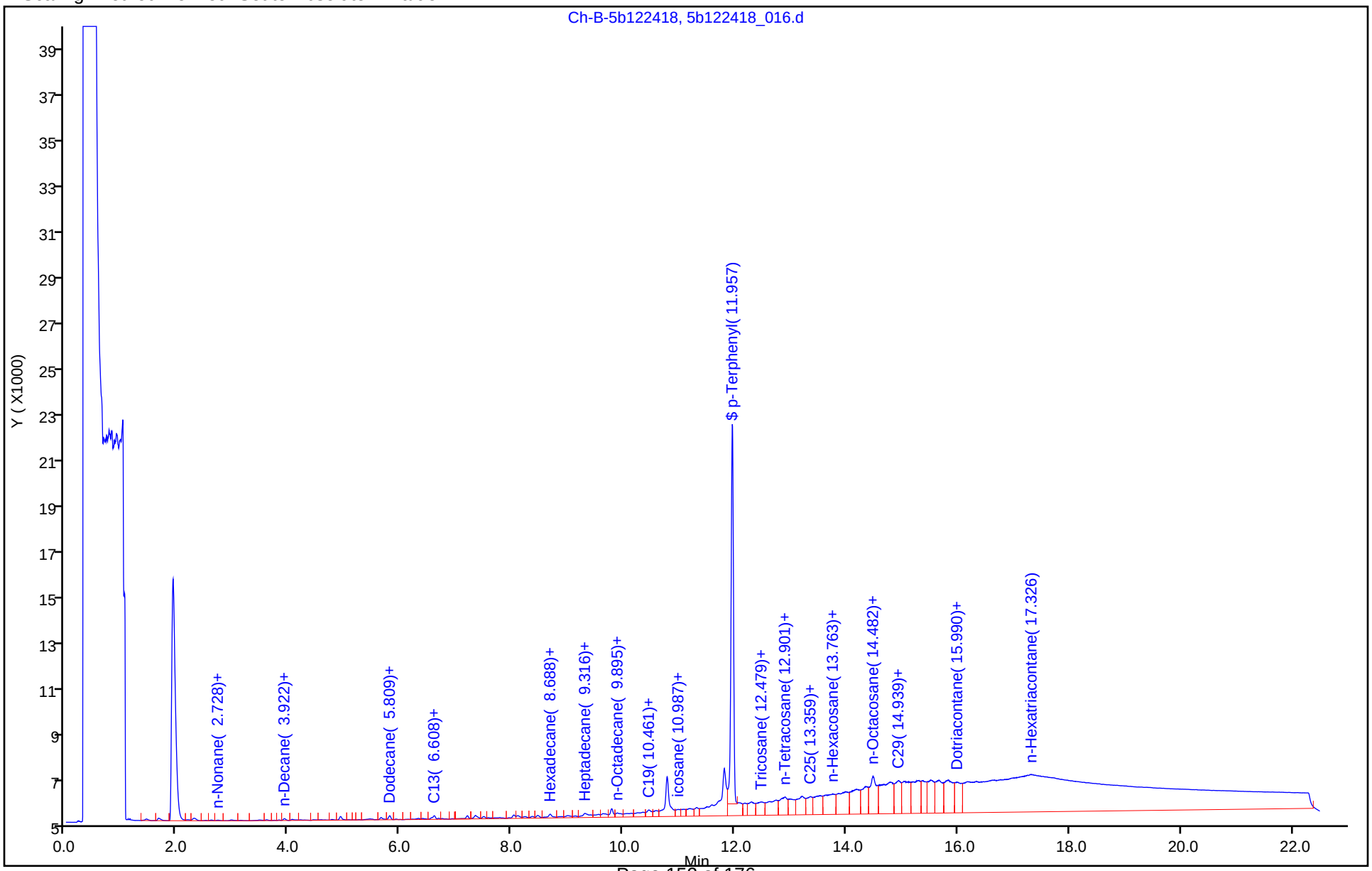
Report Date: 26-Dec-2018 12:14:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_016.d

Injection Date:	24-Dec-2018 15:52:48	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-A-23-A	Lab Sample ID:	720-90412-23	Worklist Smp#:	16
Client ID:	DG-AH4S-6-6.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_016.d
Lims ID: 720-90412-A-23-A
Client ID: DG-AH4S-6-6.5
Sample Type: Client
Inject. Date: 24-Dec-2018 15:52:48 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 105 Name: 720-0055819-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:14:35 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:14:35

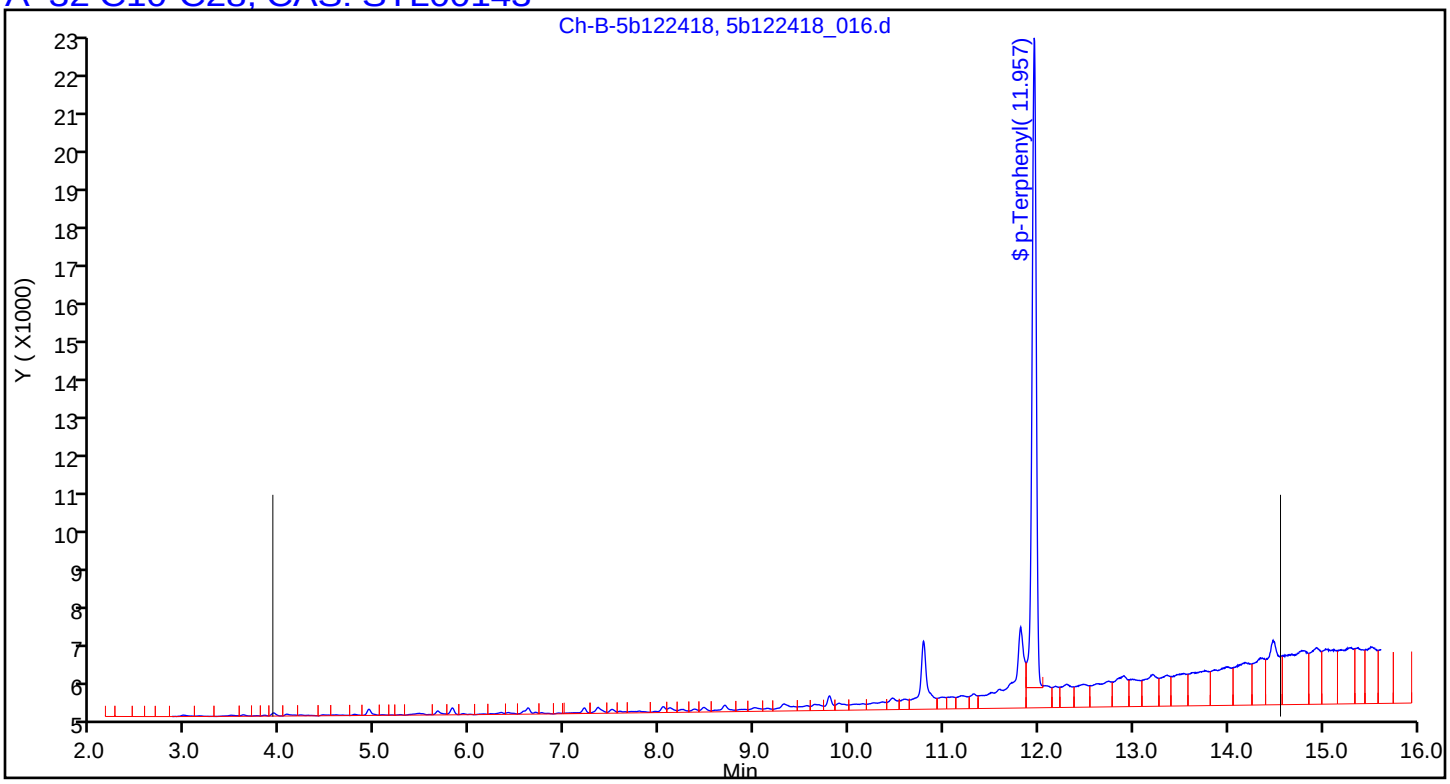
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.1	80.40

Report Date: 26-Dec-2018 12:14:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_016.d				
Injection Date:	24-Dec-2018 15:52:48	Instrument ID:	CHDRO5		
Lims ID:	720-90412-A-23-A	Lab Sample ID:	720-90412-23		
Client ID:	DG-AH4S-6-6.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

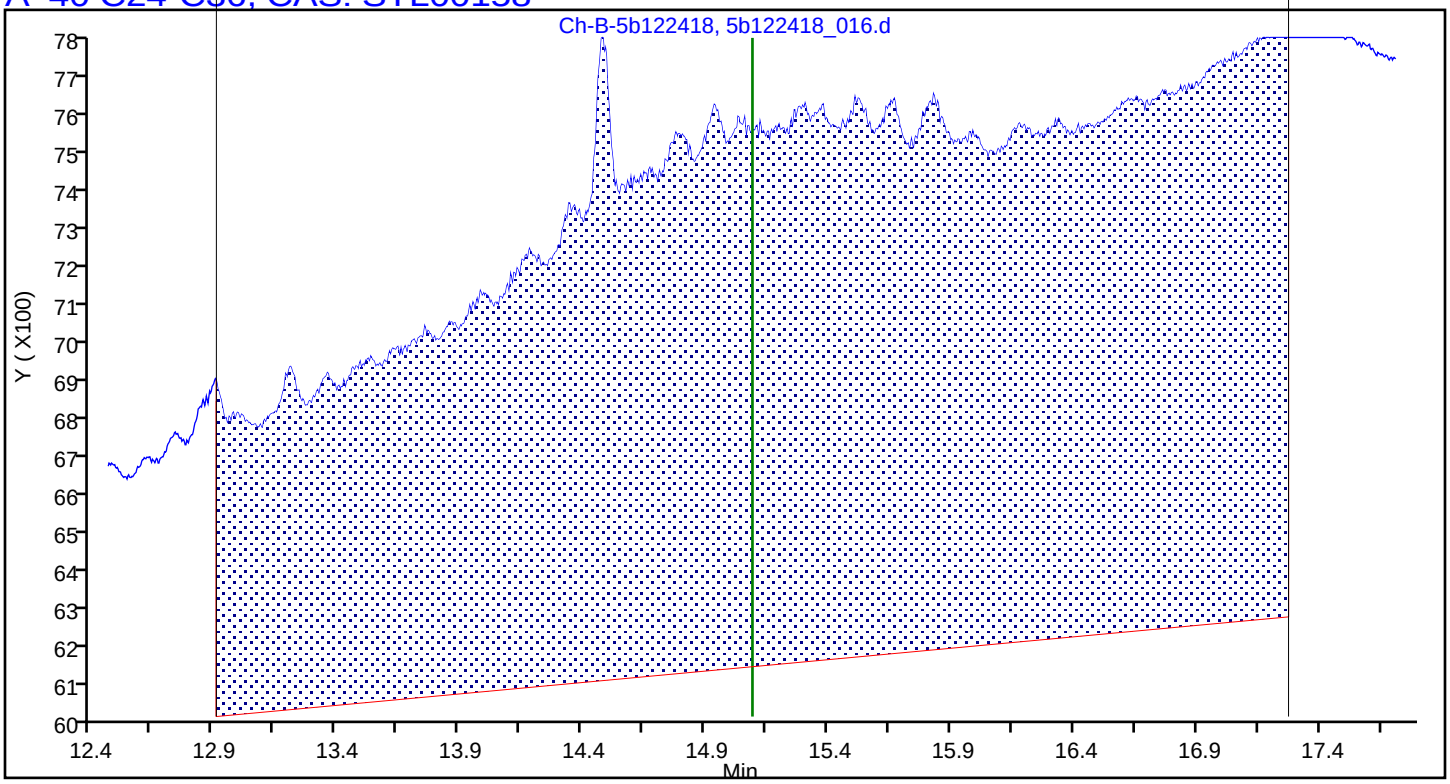


Report Date: 26-Dec-2018 12:14:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_016.d				
Injection Date:	24-Dec-2018 15:52:48	Instrument ID:	CHDRO5		
Lims ID:	720-90412-A-23-A	Lab Sample ID:	720-90412-23		
Client ID:	DG-AH4S-6-6.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pleasanton | Job No.: 720-90412-1

SDG No.:

Client Sample ID: DG-AH4S-4-4.5 | Lab Sample ID: 720-90412-24

Matrix: Solid | Lab File ID: 5b122418_011.d

Analysis Method: 8015B | Date Collected: 12/18/2018 10:00

Extraction Method: 3546 | Date Extracted: 12/20/2018 11:14

Sample wt/vol: 15.06(g) | Date Analyzed: 12/24/2018 13:27

Con. Extract Vol.: 2(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 320(um)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 257513 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00143	Diesel Range Organics [C10-C28]	3700	B	40	15
STL00158	Motor Oil Range Organics [C24-C36]	3600		1000	200

CAS NO.	SURROGATE	%REC	Q	LIMITS
92-94-4	p-Terphenyl	0	X D	40-130

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_011.d
Lims ID: 720-90412-E-24-A
Client ID: DG-AH4S-4-4.5
Sample Type: Client
Inject. Date: 24-Dec-2018 13:27:15 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 140 Name: 720-0055819-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\DRO5B.m
Limit Group: DRO
Last Update: 26-Dec-2018 10:59:12 Calib Date: 24-Dec-2018 09:33:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 10:59:12

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.698	2.698	0.000	975	NC	
	23 n-Decane	3.910	3.912	-0.002	2434	NC	
A	1 C9-C13	4.653	(2.698-6.608)		727306	57.4	
A	21 Stoddard Solvent	4.653	(2.698-6.608)		727306	64.0	
A	57 C10-C12	4.860	(3.912-5.808)		285640	29.1	
	24 Dodecane	5.776	5.808	-0.032	44476	NC	
A	3 C9 - C17	6.007	(2.698-9.315)		3372301	238.8	
A	47 C9 - C18	6.296	(2.698-9.894)		4416964	393.5	
A	60 C10-C16	6.299	(3.912-8.686)		2560406	205.2	
A	15 Kerosene	6.574	(2.698-10.449)		5204843	462.6	
A	25 C9-C19	6.574	(2.698-10.449)		5204843	367.5	
	26 C13		6.608			ND	
$	27 n-Decanoic Acid (Surr)		7.220			ND	U
A	59 C12-C16	7.247	(5.808-8.686)		2319242	236.2	
A	62 C10-C20	7.448	(3.912-10.983)		6266685	638.3	
A	28 C9-C24	7.803	(2.698-12.907)		10445680	1063.9	
A	29 C9-C25	8.021	(2.698-13.343)		11091506	1129.7	
A	54 C10-C23	8.184	(3.912-12.455)		9410414	958.5	
A	4 C10-C24	8.410	(3.912-12.907)		10429602	1062.3	
A	16 C10-C25	8.627	(3.912-13.343)		11075428	1128.0	
	45 Hexadecane	8.700	8.686	0.014	307386	NC	
A	14 C10-C26	8.837	(3.912-13.762)		12077335	1230.1	
A	67 C12-C22	8.896	(5.808-11.985)		8314797	846.9	
A	5 Diesel	9.235	(3.912-14.558)		13664110	1391.7	
A	32 C10-C28	9.235	(3.912-14.558)		13664110	1391.7	
A	12 Unknown Hydrocarbons	9.235	(3.912-14.558)		13664110	NC	
A	30 C13-C22	9.296	(6.608-11.985)		7954881	810.2	
	44 Heptadecane	9.349	9.315	0.034	314742	NC	
A	31 C12-C24	9.358	(5.808-12.907)		10188438	1037.7	
	49 n-Octadecane		9.894			ND	
A	52 Mineral oil	9.987	(2.698-17.277)		19467076	1791.9	
A	9 Crude Oil Range Organics (	9.987	(2.698-17.277)		19467076	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.987	(2.698-17.277)		21039479	NC	
33 C19	10.463	10.449	0.014	379687	NC	
A 64 C13-C28	10.583	(6.608-14.558)		13063030	1330.5	
A 17 C10-C36	10.622	(3.967-17.277)		21020967	2141.0	
A 13 C9-C40	10.777	(2.698-18.856)		20899300	2067.1	
A 68 Crude Oil Range Organics (	10.777	(2.698-18.856)		20899300	NC	
A 58 C16-C24	10.797	(8.686-12.907)		7869196	801.5	
61 icosane		10.983			ND	
A 6 C10-C40	11.384	(3.912-18.856)		20878205	2067.6	
$ 34 p-Terphenyl		11.953			ND	U
35 n-Docosane	12.057	11.985	0.072	241857	NC	
A 18 C12-C40	12.332	(5.808-18.856)		20577971	2044.3	
36 Tricosane	12.494	12.455	0.039	290991	NC	
A 66 C13-C40	12.732	(6.608-18.856)		19182275	1934.0	
37 n-Tetracosane		12.907			ND	
A 2 C16-C36 ORO	12.981	(8.686-17.277)		10529125	1427.0	
38 C25	13.345	13.343	0.002	299726	NC	
46 n-Hexacosane	13.722	13.762	-0.040	291847	NC	
A 19 C16-C40	13.771	(8.686-18.856)		18036406	1802.0	
A 20 C19-C36	13.863	(10.449-17.277)		12111863	1553.3	
A 55 C23-C32	14.227	(12.455-16.000)		5648411	1311.4	
39 n-Octacosane	14.519	14.558	-0.039	136497	NC	
65 C29	14.943	14.935	0.008	280946	NC	
A 40 C24-C36	15.092	(12.907-17.277)		8419650	1343.6	M
A 7 Motor Oil	15.092	(12.907-17.277)		6414258	1023.5	
A 50 C25-C36	15.310	(13.343-17.277)		5773120	974.1	
A 10 C22-C40	15.420	(11.985-18.856)		8396504	947.3	
A 41 C23-C40	15.656	(12.455-18.856)		7664047	885.4	
A 8 C24-C40	15.882	(12.907-18.856)		6993993	835.8	
56 Dotriacontane		16.000			ND	
A 51 C28-C40	16.707	(14.558-18.856)		4454118	669.5	
A 63 C29-C40	16.896	(14.935-18.856)		3783826	620.6	
42 n-Hexatriacontane		17.277			ND	
43 C40		18.856			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

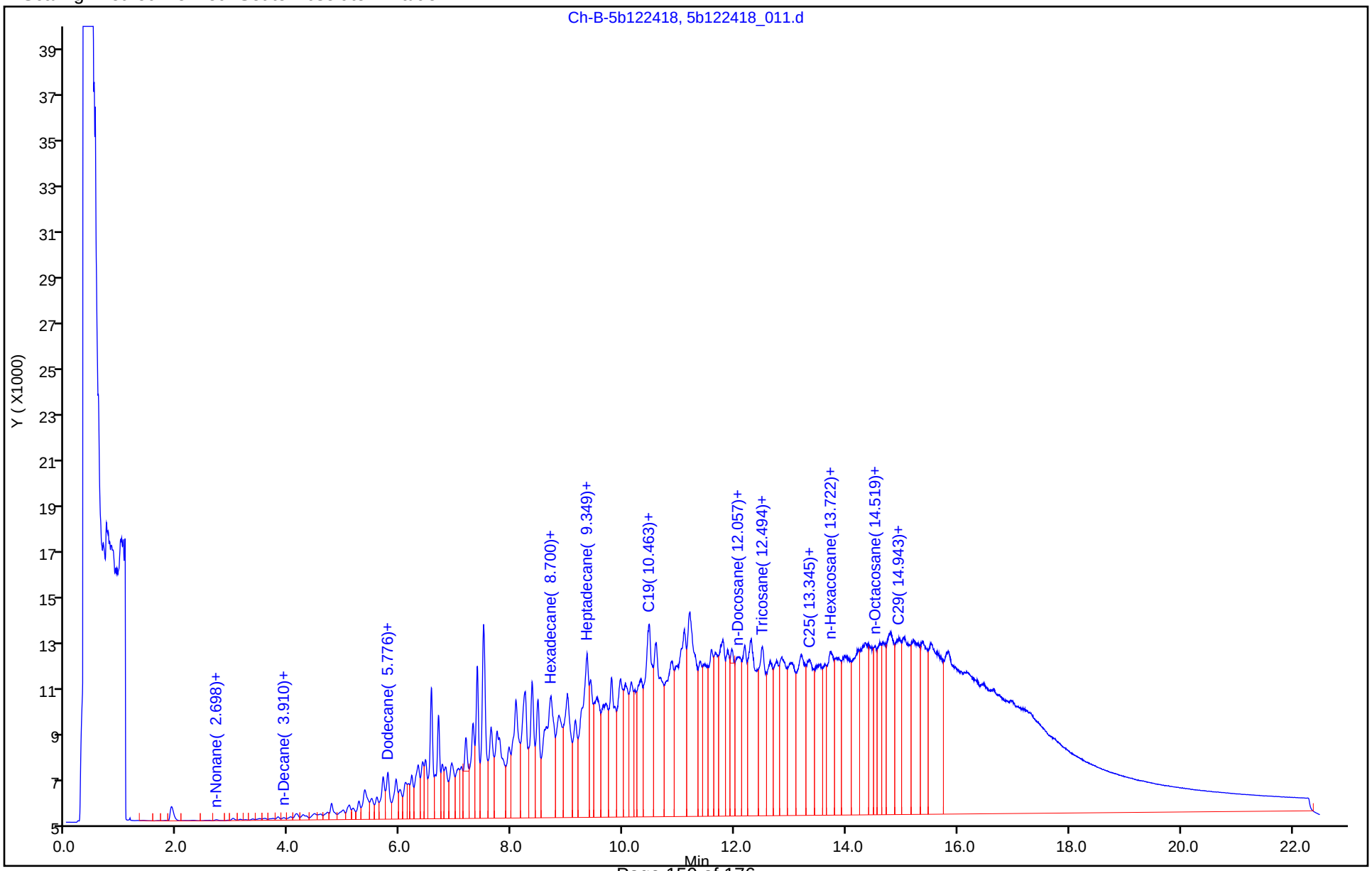
U - Marked Undetected

Report Date: 26-Dec-2018 10:59:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_011.d				
Injection Date:	24-Dec-2018 13:27:15	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90412-E-24-A	Lab Sample ID:	720-90412-24	Worklist Smp#:	11
Client ID:	DG-AH4S-4-4.5				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

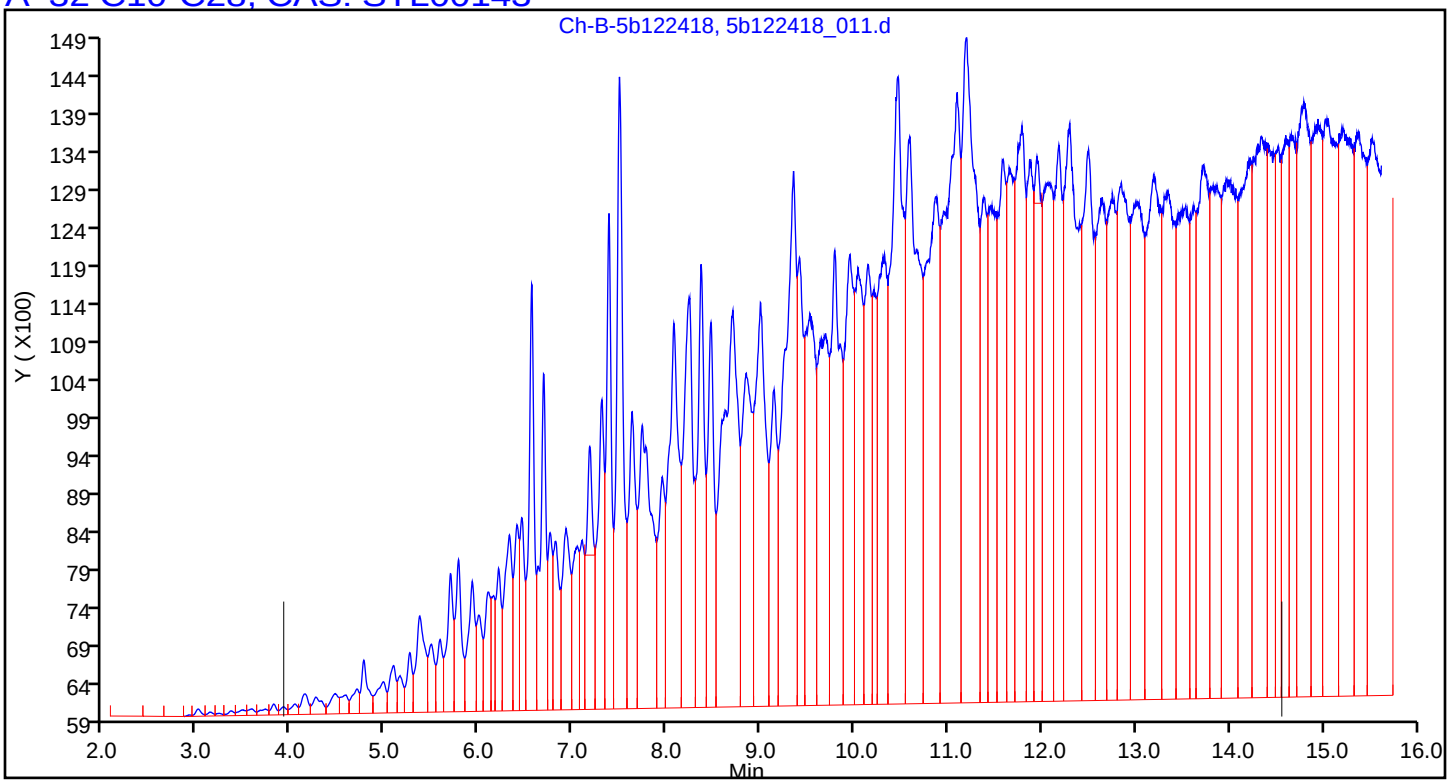


Report Date: 26-Dec-2018 10:59:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_011.d				
Injection Date:	24-Dec-2018 13:27:15	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-24-A	Lab Sample ID:	720-90412-24		
Client ID:	DG-AH4S-4-4.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

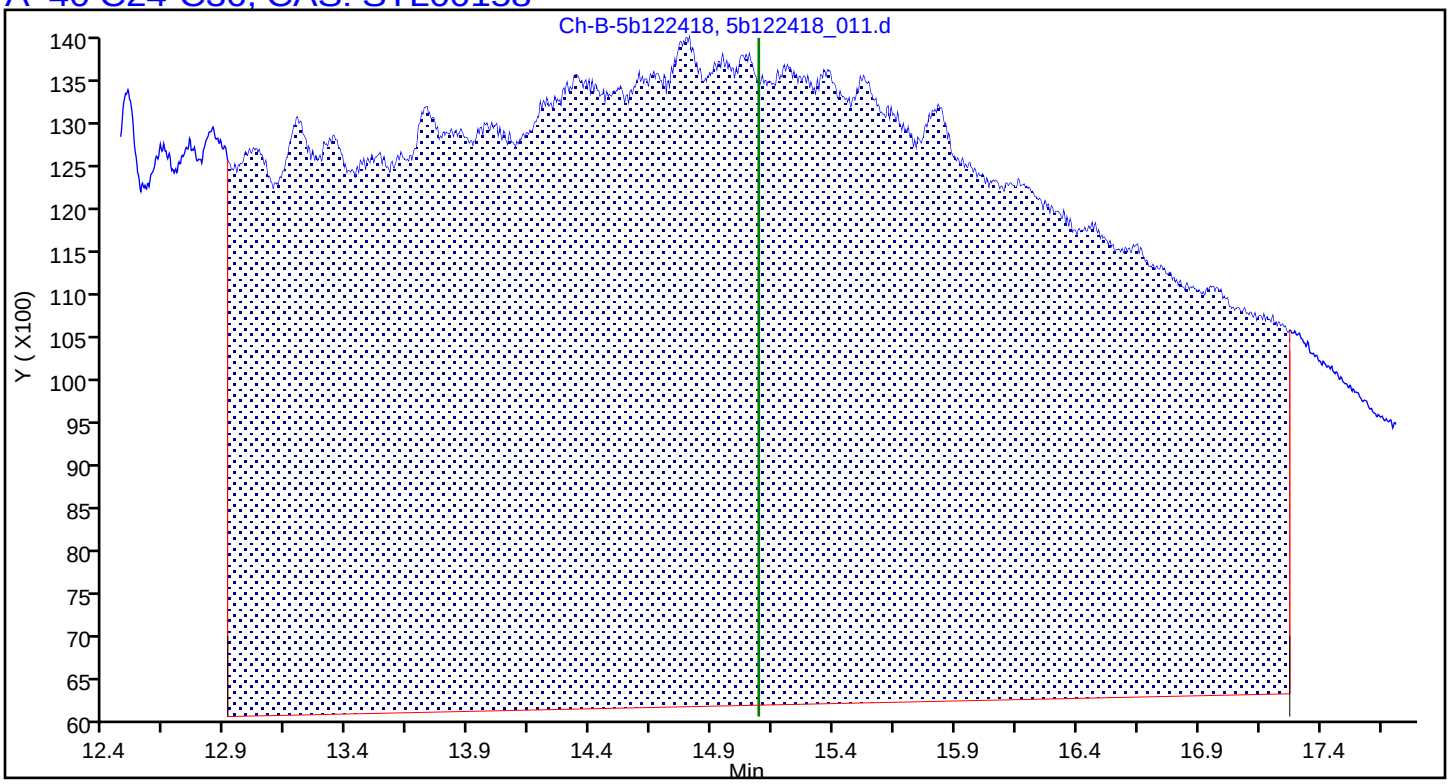


Report Date: 26-Dec-2018 10:59:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_011.d				
Injection Date:	24-Dec-2018 13:27:15	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-24-A	Lab Sample ID:	720-90412-24		
Client ID:	DG-AH4S-4-4.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

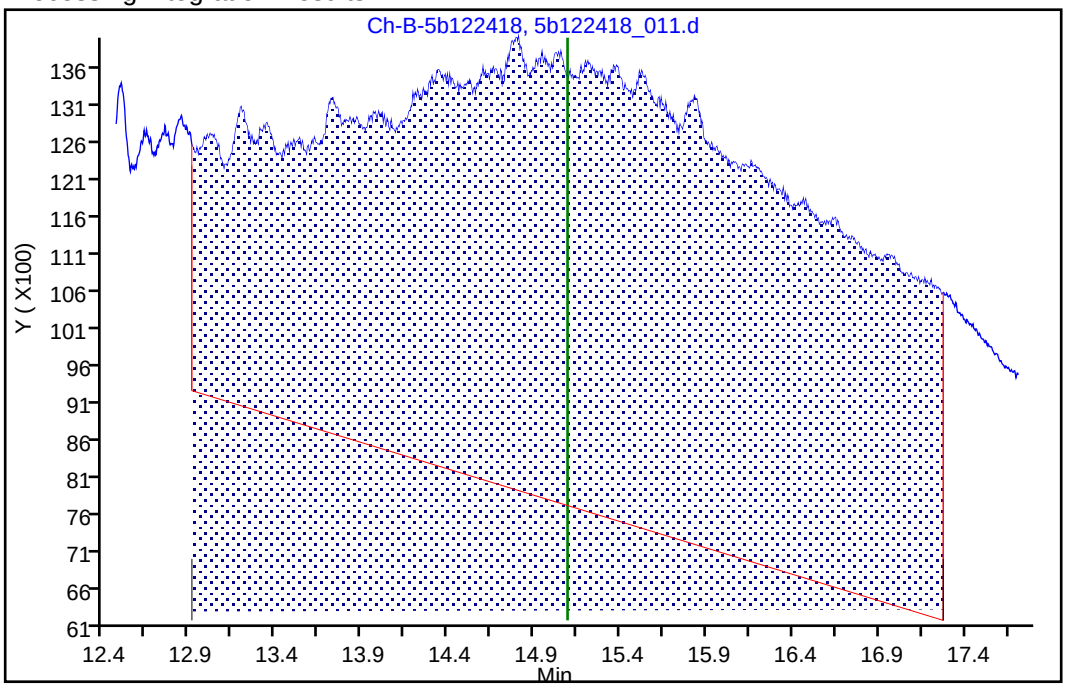
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_011.d				
Injection Date:	24-Dec-2018 13:27:15	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-24-A	Lab Sample ID:	720-90412-24		
Client ID:	DG-AH4S-4-4.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.092, CAS: STL00158

Signal: 1

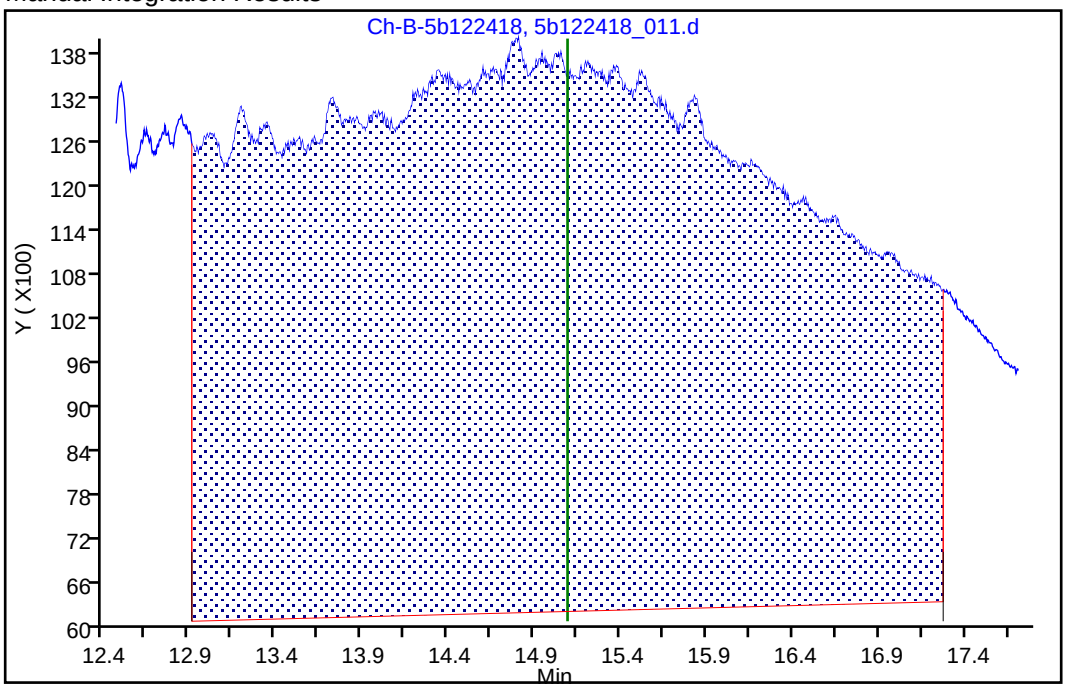
Processing Integration Results

RT: 15.09
Response: 6414258
Amount: 1023.5476



Manual Integration Results

RT: 15.09
Response: 8419650
Amount: 1343.5556



Reviewer: hayashid, 26-Dec-2018 10:59:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

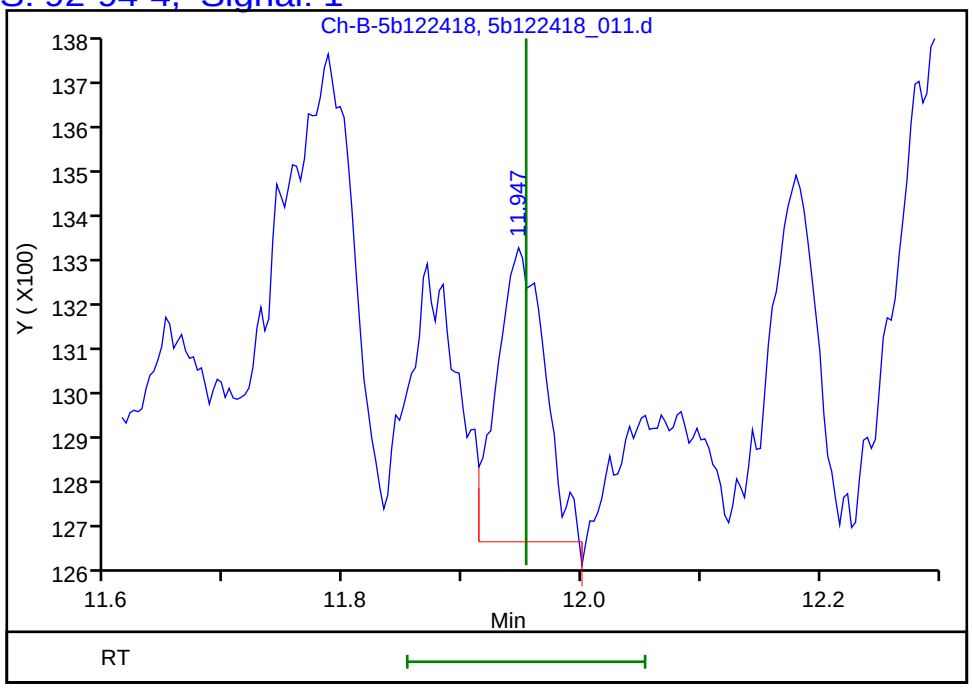
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181224-55819.b\5b122418_011.d

Injection Date:	24-Dec-2018 13:27:15	Instrument ID:	CHDRO5		
Lims ID:	720-90412-E-24-A	Lab Sample ID:	720-90412-24		
Client ID:	DG-AH4S-4-4.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.95
Response: 8552
Amount: 0.679141



Reviewer: hayashid, 26-Dec-2018 10:59:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB_list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-P1S-0.5-1 (720-90412-1)	12/18/18	08:25 Pacific		Solid			X	X		4	
DG-P1S-3.5-4 (720-90412-2)	12/18/18	08:25 Pacific		Solid			X	X		4	
DUP-02 (720-90412-3)	12/18/18	Pacific		Solid			X	X		4	
DG-N1S-0.5-1 (720-90412-4)	12/18/18	09:00 Pacific		Solid			X	X	X	5	4
DG-N1S-3.5-4 (720-90412-5)	12/18/18	09:00 Pacific		Solid			X	X	X	5	4
DG-O3S-0.5-1 (720-90412-6)	12/18/18	09:50 Pacific		Solid			X	X	X	5	4
DG-O3S-3.5-4 (720-90412-7)	12/18/18	09:50 Pacific		Solid			X	X	X	5	4
DG-Q3S-0.5-1 (720-90412-8)	12/18/18	10:35 Pacific		Solid			X	X	X	5	4
DG-Q3S-3.5-4 (720-90412-9)	12/18/18	10:35 Pacific		Solid			X	X	X	5	4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12-19-18 / 1420	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-S3S-0.5-1 (720-90412-10)	12/18/18	11:15 Pacific		Solid			X	X	X	5	4
DG-S3S-3.5-4 (720-90412-11)	12/18/18	11:15 Pacific		Solid			X	X	X	5	4
DG-U3S-0.5-1 (720-90412-12)	12/18/18	13:15 Pacific		Solid			X	X	X	5	4
DG-U3S-3.5-4 (720-90412-13)	12/18/18	13:15 Pacific		Solid			X	X	X	5	4
DUP-15 (720-90412-14)	12/18/18	Pacific		Solid			X	X		4	
DG-W3S-0.5-1 (720-90412-15)	12/18/18	14:05 Pacific		Solid			X	X		4	
DG-W3S-3.5-4 (720-90412-16)	12/18/18	14:05 Pacific		Solid			X	X		4	
DG-Y3S-0.5-1 (720-90412-17)	12/18/18	14:40 Pacific		Solid			X	X		4	
DG-Y3S-3.5-4 (720-90412-18)	12/18/18	14:40 Pacific		Solid			X	X		4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AA3S-0.5-1 (720-90412-19)	12/18/18	15:25 Pacific		Solid			X	X		4	
DG-AA3S-3.5-4 (720-90412-20)	12/18/18	15:25 Pacific		Solid			X	X		4	
DG-AA3S-7-7.5 (720-90412-21)	12/18/18	15:25 Pacific		Solid			X	X		4	
DUP-16 (720-90412-22)	12/18/18	Pacific		Solid			X	X		4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90412

Chain of Custody Record

187448

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90412 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-P15-0.5-1.0	12/18/18	0825	G	S	4 (8)	N		X	X	X	X	X	X	X (1)	*only VOCs
2 DG-P15-3.5-4		0825			4										
3 DUP-02		—			4										
4 DG-N15-0.5-1		0900			4										
5 DG-N15-3.5-4		0900			4										
6 DG-035-0.5-1		0950			4										
7 DG-035-3.5-4		0950			4										
8 DG-035-0.5-1		1035			4										
9 DG-035-3.5-4		1035			4										
10 DG-535-0.5-1		1115			4										
11 DG-535-3.5-4		1115			4										
12 DG-035-0.5-1		1315			4										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.2, 5.0, 2.9, 3.9, 4.3, 1.8, 2.8°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No: ____		
Relinquished by	Company Geosyntec	Date/Time 12/18/18 1642	Received by	Company TAPLS	Date/Time 12/18/18 1642
Relinquished by	Company TAPLS	Date/Time 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/18/18 19:10

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90412

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187448

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler.
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13 DG-U35-3.5-4	12/13/18	1315	G	S	7	N		X	X	X	X	X	X	X	
14 DUP-15		—			7										
15 DG-W35-0.5-1		1405			7										
16 DG-W35-3.5-4		1405			7										
17 DG-Y35-0.5-1		1440			7										
18 DG-Y35-3.5-4		1440			7										
19 DG-AA35-0.5-1		1525			7										
20 DG-AA35-3.5-4		1525			7										
21 DG-AA35-7-7.5		1525			~~7~~ 6		X								No MS/MSD
22 DUP-16	↓	—	↓	↓	7			↓	↓	↓	↓				
~~23 FB 12/18/18~~								X							
24 DG-AH45-6-6.5	12/18/18	1040	G	S	2				X		X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company Geosyntec	Date/Time 12/18/18 1642	Received by	Company TAPLS	Date/Time 12/18/18 1642
Relinquished by	Company TAPLS	Date/Time 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by.	Company TA-PLS	Date/Time 12/18/18 1910

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90412

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187448

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)		Sample Specific Notes
~~DG-AH45-4-4.5~~	12/18/18	1000	G	S	7	N		X	X	X	X	X	X	X	(BL)	
DG-AH45-4-4.5	12/18/18	1000	G	S	2			X	X		X					
~~DG-DH45-4-4.5~~ (BL)																

Page 169 of 176

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____

	Company	Date/Time		Company	Date/Time
Relinquished by	Geosyntec	12/18/18 1642	Received by	TAPLS	12/18/18 1642
Relinquished by	TAPLS	12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	TAPLS	12/18/18 1950

720-90412



720-90412-02 Chain of Custody

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC02

FedEx Express Package(s) - Dropped Off
463602765788

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 18, 2018 5:00:02 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90412

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187448

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90412 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-P15-0.5-1.0	12/18/18	~~0930~~	G	S	4	N		X	X	X	X	X	X	X	*only VOCs
2 DG-P15-3.5-4		0935			4										
3 DUP-02		—			4										
4 DG-N15-0.5-1		0900			4										
5 DG-N15-3.5-4		0900			4										
6 DG-O35-0.5-1		0950			4										
7 DG-O35-3.5-4		0950			4										
8 DG-O35-0.5-1		1035			4										
9 DG-O35-3.5-4		1035			4										
10 DG-S35-0.5-1		1115			4										
11 DG-S35-3.5-4		1115			4										
12 DG-O35-0.5-1		1315			4										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.2, 5.0, 2.9, 3.9, 4.3, 1.8, 2.8°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No.: _____	
Relinquished by	Company: Geosyntec	Date/Time: 12/18/18 1645	Received by	Company: TAPLS	Date/Time: 12/18/18 1645
Relinquished by	Company: TAPLS	Date/Time: 12/18/18 2100	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 12/18/18 19:10

Received by: TAIKV 12/19/18 10:30

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

N/CS TRK-4636 0276 5788

2-9/2-4 IR-9.3

Frozen Time: 1115 Initials: AS 12/19/18

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90412

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187448

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	DVC	Sample Specific Notes
13 DG-U35-3.5-4	12/13/18	1315	G	S	7	N		X	X	X	X	X	X	X		
14 DUP-15		—			7											
15 DG-W35-0.5-1		1405			7											
16 DG-W35-3.5-4		1405			7											
17 DG-Y35-0.5-1		1440			7											
18 DG-Y35-3.5-4		1440			7											
19 DG-AA35-0.5-1		1525			7											
20 DG-AA35-3.5-4		1525			7											
21 DG-AA35-7-7.5		1525			~~7~~ 6	X										No MS/MSD
22 DUP-16		—			7											
~~23 FB 12/18/18~~								X								
23 DG-AH45-6-6.5	12/18/18	1640	G	S	2				X		X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time: 12/18/18 1642	Received by	Company: TAPLS	Date/Time: 12/18/18 1642
Relinquished by	Company: TAPLS	Date/Time: 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Received by TA-PLS 12/19/18 10:30

2-9/2.4 1K-93

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90412

Chain of Custody Record

187448

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/18/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnles@geosyntec.com, lsmith @geosyntec.com	2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	1 week			
Site: Brisbane OU2	2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
~~DG-AH45-4-4.5~~	12/18/18	1000	G	S	1	N		X	X	X	X	X	X	X (BL)	
DG-AH45-4-4.5	12/18/18	1600	G	S	2			X	X		X				
~~DG-AH45-4-4.5 (BL)~~															

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____	Therm ID No. _____

Relinquished by	Company: Geosyntec	Date/Time: 12/18/18 1642	Received by	Company: TAPLS	Date/Time: 12/18/18 1642
Relinquished by	Company: TAPLS	Date/Time: 12/18/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/18/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Received by TA IRV 12/19/18 1030

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_CL3035A_F_PW 8260 (WOD) V60e-4 GRG	8260B/CA_LUFTMS/5035A_F_PW 8260-C5+C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-P1S-0.5-1 (720-90412-1)	12/18/18	08:25 Pacific		Solid			X	X		4	
DG-P1S-3.5-4 (720-90412-2)	12/18/18	08:25 Pacific		Solid			X	X		4	
DUP-02 (720-90412-3)	12/18/18	Pacific		Solid			X	X		4	
DG-N1S-0.5-1 (720-90412-4)	12/18/18	09:00 Pacific		Solid			X	X	X	5	(
DG-N1S-3.5-4 (720-90412-5)	12/18/18	09:00 Pacific		Solid			X	X	X	5	(
DG-O3S-0.5-1 (720-90412-6)	12/18/18	09:50 Pacific		Solid			X	X	X	5	(
DG-O3S-3.5-4 (720-90412-7)	12/18/18	09:50 Pacific		Solid			X	X	X	5	(
DG-Q3S-0.5-1 (720-90412-8)	12/18/18	10:35 Pacific		Solid			X	X	X	5	(
DG-Q3S-3.5-4 (720-90412-9)	12/18/18	10:35 Pacific		Solid			X	X	X	5	(

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260_(MOD)_VOCs_+ ORG	8260B/CA LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-S3S-0.5-1 (720-90412-10)	12/18/18	11:15 Pacific		Solid			X	X	X	5	1
DG-S3S-3.5-4 (720-90412-11)	12/18/18	11:15 Pacific		Solid			X	X	X	5	1
DG-U3S-0.5-1 (720-90412-12)	12/18/18	13:15 Pacific		Solid			X	X	X	5	1
DG-U3S-3.5-4 (720-90412-13)	12/18/18	13:15 Pacific		Solid			X	X	X	5	1
DUP-15 (720-90412-14)	12/18/18	Pacific		Solid			X	X		4	
DG-W3S-0.5-1 (720-90412-15)	12/18/18	14:05 Pacific		Solid			X	X		4	
DG-W3S-3.5-4 (720-90412-16)	12/18/18	14:05 Pacific		Solid			X	X		4	
DG-Y3S-0.5-1 (720-90412-17)	12/18/18	14:40 Pacific		Solid			X	X		4	
DG-Y3S-3.5-4 (720-90412-18)	12/18/18	14:40 Pacific		Solid			X	X		4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment		
Relinquished by:	Date/Time: 12-19-18-1680	Company: PLS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/20/18 1100	Company: TMW	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40581.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90412-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 12/31/2018			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-AA3S-0.5-1 (720-90412-19)	12/18/18	15:25 Pacific		Solid			X	X			
DG-AA3S-3.5-4 (720-90412-20)	12/18/18	15:25 Pacific		Solid			X	X			
DG-AA3S-7-7.5 (720-90412-21)	12/18/18	15:25 Pacific		Solid			X	X			
DUP-16 (720-90412-22)	12/18/18	Pacific		Solid			X	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 12-15-18 1600	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/20/18 1050	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks.	

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-90445-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/9/2019 12:04 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/09/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Method 8015B - DRO Sample Data 5

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Client Chain of Custody 53

Job Narrative
720-90445-1

Comments
See client email in Correspondences for the receipt exceptions listed below.

Receipt
The samples were received on 12/19/2018 7:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 1.0º C, 1.0º C, 1.2º C, 1.3º C, 1.4º C, 1.6º C, 2.5º C and 2.7º C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#3) DG-AG3W. The container labels list time 09:55, while the COC lists time 1035. Logged using the COC time.
(#4) DG-AI3W. The container labels list time 11:09, while the COC lists dificult to read time 1409. Logged using the COC time.
(#8) DG-AM3W. The container labels list time 13:40, while the COC lists time 13:45. Logged using the COC time.

GC/MS VOA
Methods 8260B/CA_LUFTMS and 8260B: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was 4 and the following sample was analyzed after 7 days from sampling: DG-AG3W (720-90445-3).

Methods 8260B/CA_LUFTMS and 8260B: The following volatile sample was analyzed with significant headspace in the sample container(s): DG-AG3W (720-90445-3). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519967 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AC3W (720-90445-1), DG-AE3W (720-90445-2), DG-AG3W (720-90445-3), DG-AI3W (720-90445-4), DUP-17 (720-90445-5), FB-12.19.18 (720-90445-6), DG-AK3W (720-90445-7), DG-AM3W (720-90445-8), DG-AO3W (720-90445-9), DG-AQ3W (720-90445-10), TB-12.19.18 (720-90445-11) and (CCVIS 440-519967/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AG3W (720-90445-3) and DG-AO3W (720-90445-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257456 and analytical batch 720-257686 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Water sample DG-AI3W (720-90445-4) and DG-AM3W (720-90445-8[MSD]) contained excessive solid material, the 1-liter amber unpreserved sample container had approximately 1 to 2 inches of sediment on the bottom of the bottle. Only the water portion was extracted. The sediment layer remained in the sample bottle and therefore the sample bottle could not be solvent rinsed.

Method 3510C: Elevated reporting limits are provided for the following sample(s) due to insufficient sample provided for preparation/analysis: 8015B: DG-AG3W (720-90445-3)

Method 3520C: Water sample contained excessive solid material, the 1-liter sample container had approximately 1 inch of sediment on the bottom of the bottle. Only the water portion was extracted. The sediment layer remained in the sample bottle and therefore the sample bottle could not be solvent rinsed.
DG-AG3W (720-90445-3), DG-AI3W (720-90445-4), DG-AM3W (720-90445-8), DG-AM3W (720-90445-8[MS]), DG-AM3W (720-90445-8[MSD]) and DG-AQ3W (720-90445-10)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a046.d				
Lims ID:	720-90445-E-1-A				
Client ID:	DG-AC3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 00:45:11	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:48:28	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:48:28		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.673	(2.052-7.293)		1180891	357.4	
$ 127 n-Octacosane	7.102	7.112	-0.010	375682	115.3	
A 136 C24-C36	7.389	(5.842-8.937)		814936	246.7	

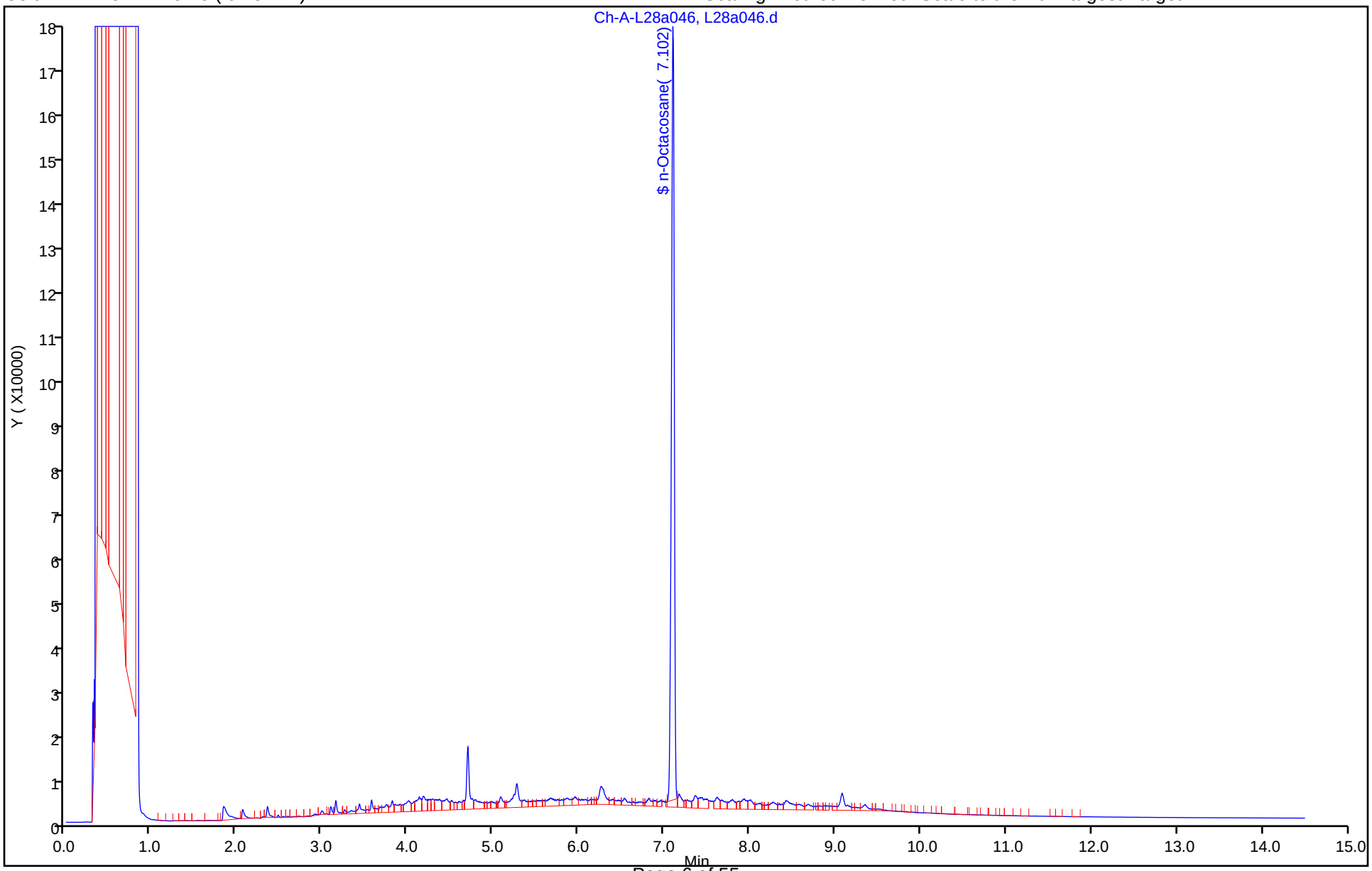
Report Date: 30-Dec-2018 10:48:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a046.d

Injection Date:	29-Dec-2018 00:45:11	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-E-1-A	Lab Sample ID:	440-90445-1	Worklist Smp#:	46
Client ID:	DG-AC3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a046.d				
Lims ID:	720-90445-E-1-A				
Client ID:	DG-AC3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 00:45:11	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:48:28	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:48:28		

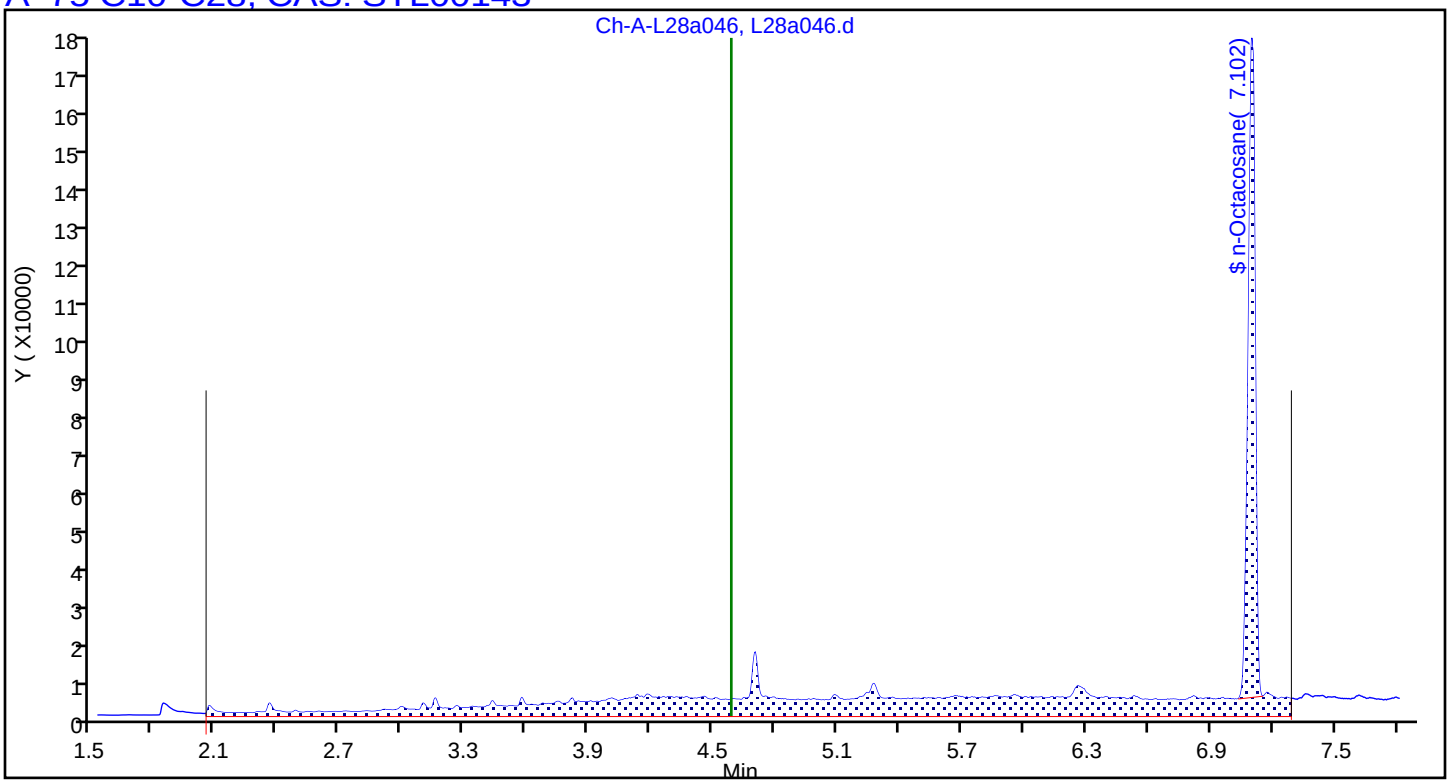
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	115.3	57.65

Report Date: 30-Dec-2018 10:48:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a046.d				
Injection Date:	29-Dec-2018 00:45:11	Instrument ID:	GC69A		
Lims ID:	720-90445-E-1-A	Lab Sample ID:	440-90445-1		
Client ID:	DG-AC3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

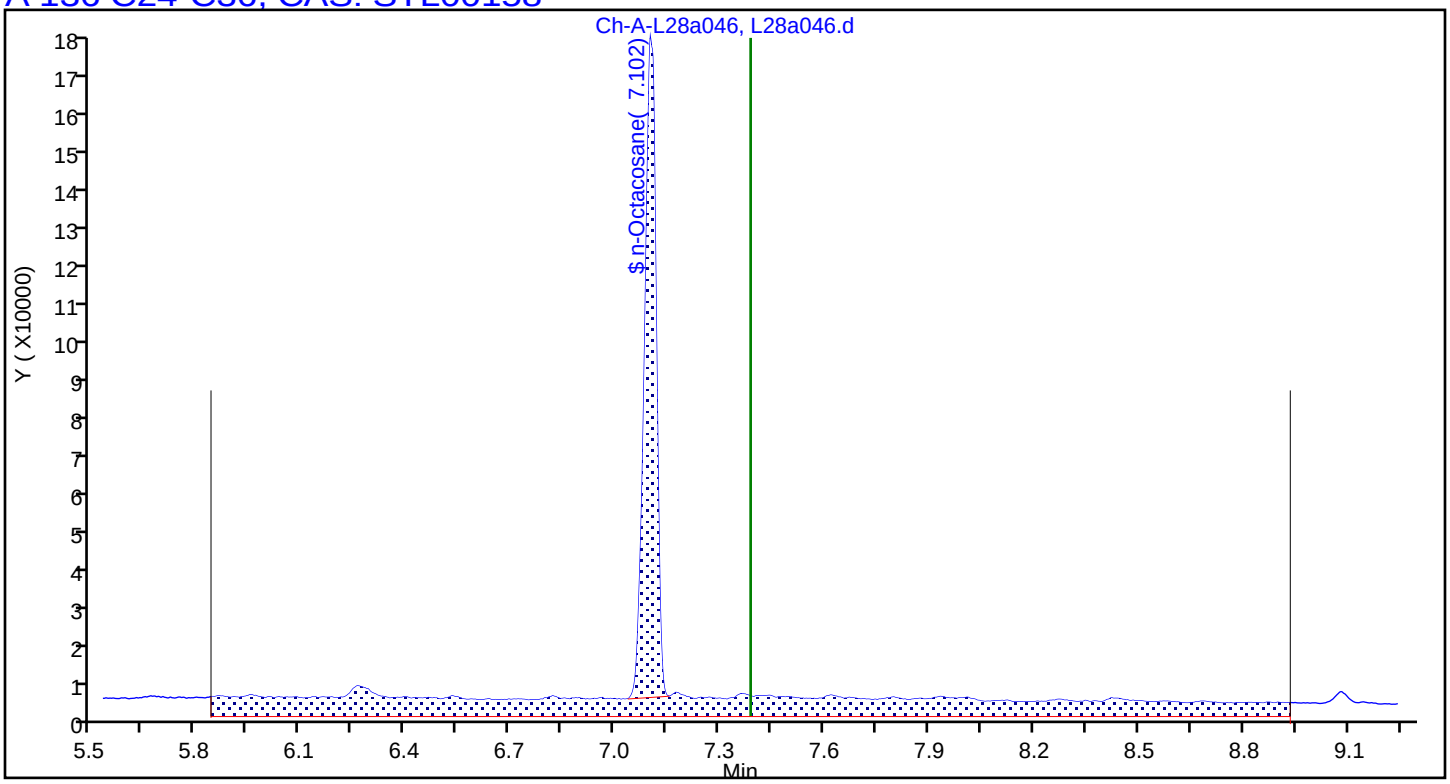


Report Date: 30-Dec-2018 10:48:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a046.d				
Injection Date:	29-Dec-2018 00:45:11	Instrument ID:	GC69A		
Lims ID:	720-90445-E-1-A	Lab Sample ID:	440-90445-1		
Client ID:	DG-AC3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a047.d				
Lims ID:	720-90445-F-2-A				
Client ID:	DG-AE3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 01:05:26	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:48:44	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:48:44		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.600	(1.907-7.293)		1061059	321.2	
$ 127 n-Octacosane	7.105	7.112	-0.007	422722	129.7	
A 136 C24-C36	7.389	(5.842-8.937)		604904	183.1	

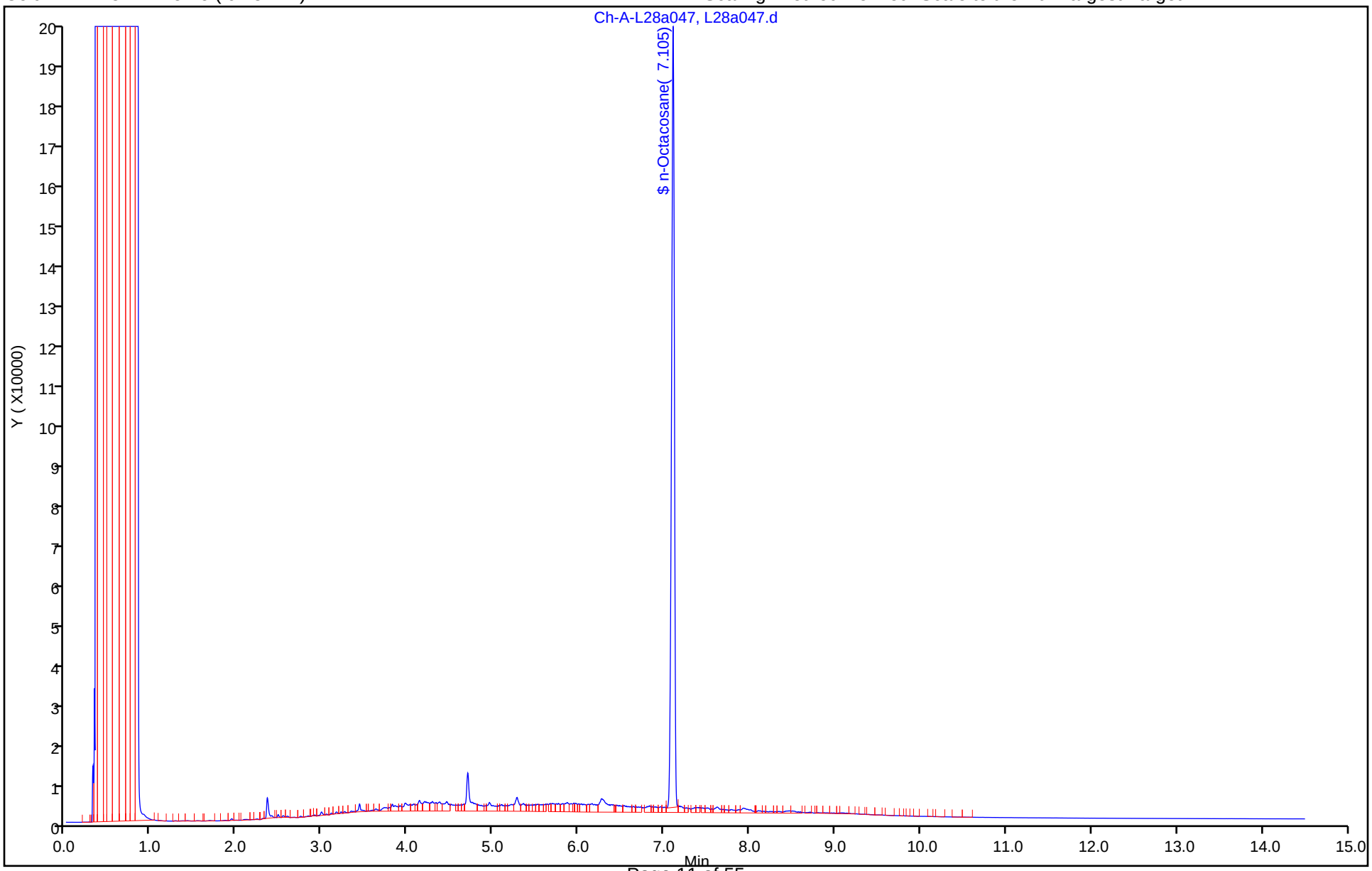
Report Date: 30-Dec-2018 10:48:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a047.d

Injection Date:	29-Dec-2018 01:05:26	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-F-2-A	Lab Sample ID:	440-90445-2	Worklist Smp#:	47
Client ID:	DG-AE3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a047.d				
Lims ID:	720-90445-F-2-A				
Client ID:	DG-AE3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 01:05:26	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:48:44	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:48:44		

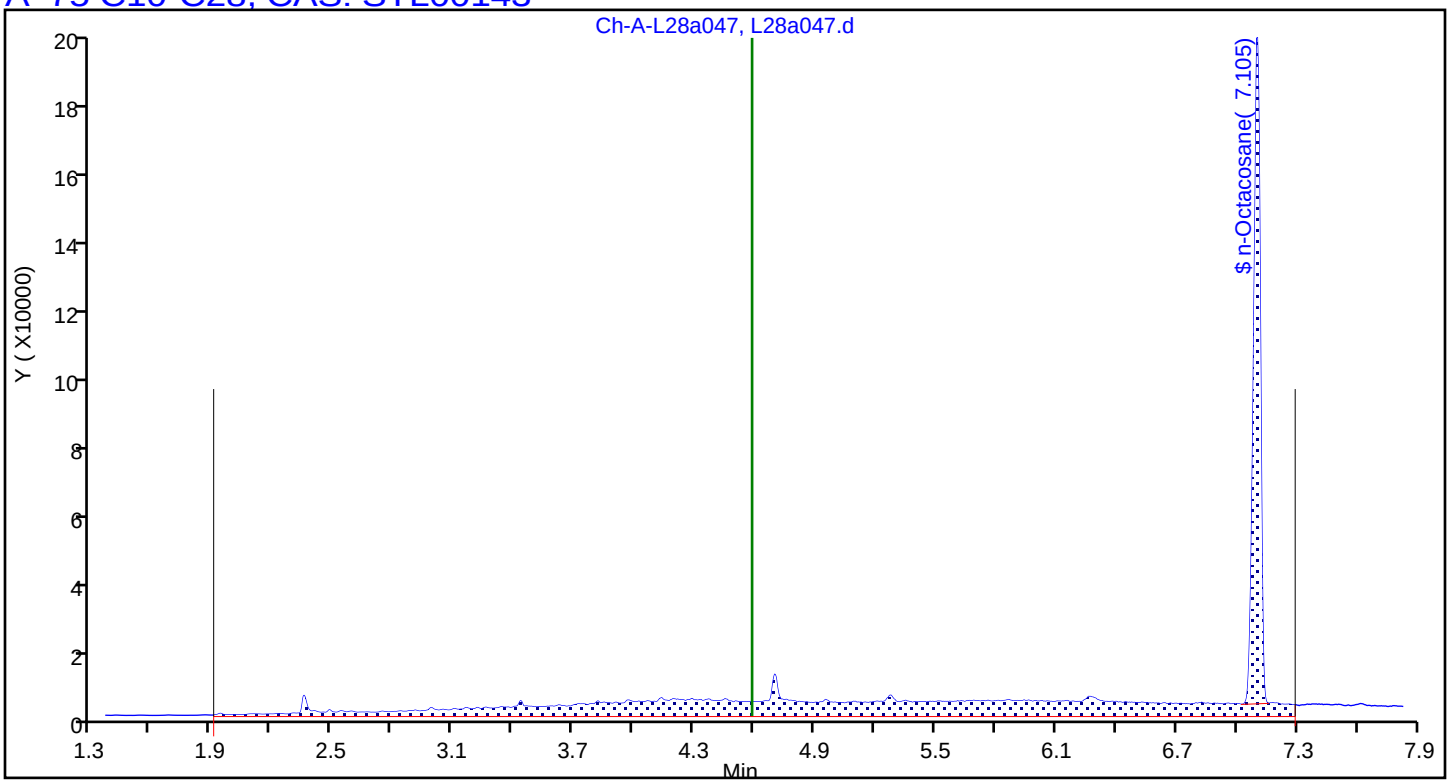
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	129.7	64.87

Report Date: 30-Dec-2018 10:48:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a047.d				
Injection Date:	29-Dec-2018 01:05:26	Instrument ID:	GC69A		
Lims ID:	720-90445-F-2-A	Lab Sample ID:	440-90445-2		
Client ID:	DG-AE3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

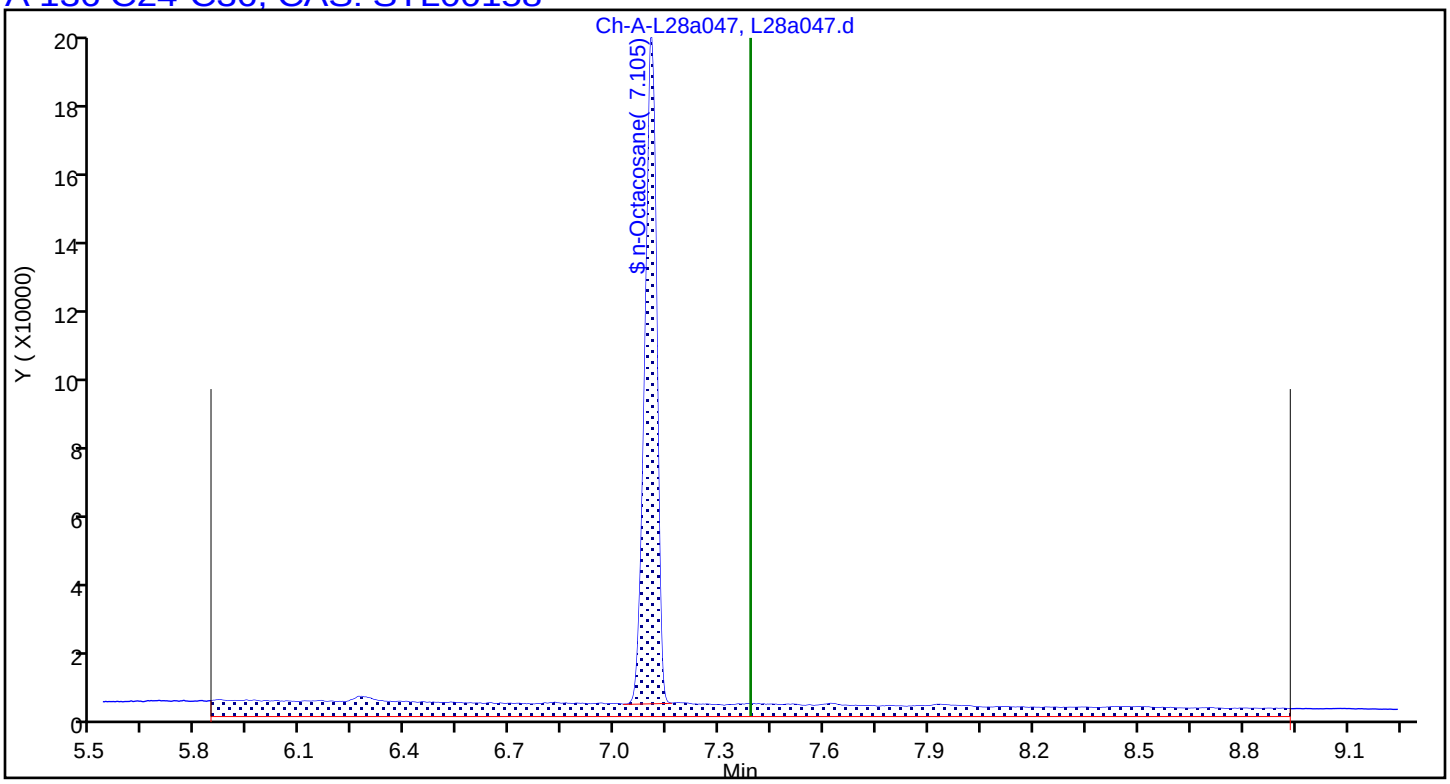


Report Date: 30-Dec-2018 10:48:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a047.d				
Injection Date:	29-Dec-2018 01:05:26	Instrument ID:	GC69A		
Lims ID:	720-90445-F-2-A	Lab Sample ID:	440-90445-2		
Client ID:	DG-AE3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a049.d				
Lims ID:	720-90445-E-3-A				
Client ID:	DG-AG3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 01:46:05	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:01	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:49:01		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.576	(1.900-7.252)		6251932	1892.3	
$ 127 n-Octacosane	7.123	7.112	0.011	379938	116.6	
A 136 C24-C36	7.389	(5.842-8.937)		8431717	2552.1	

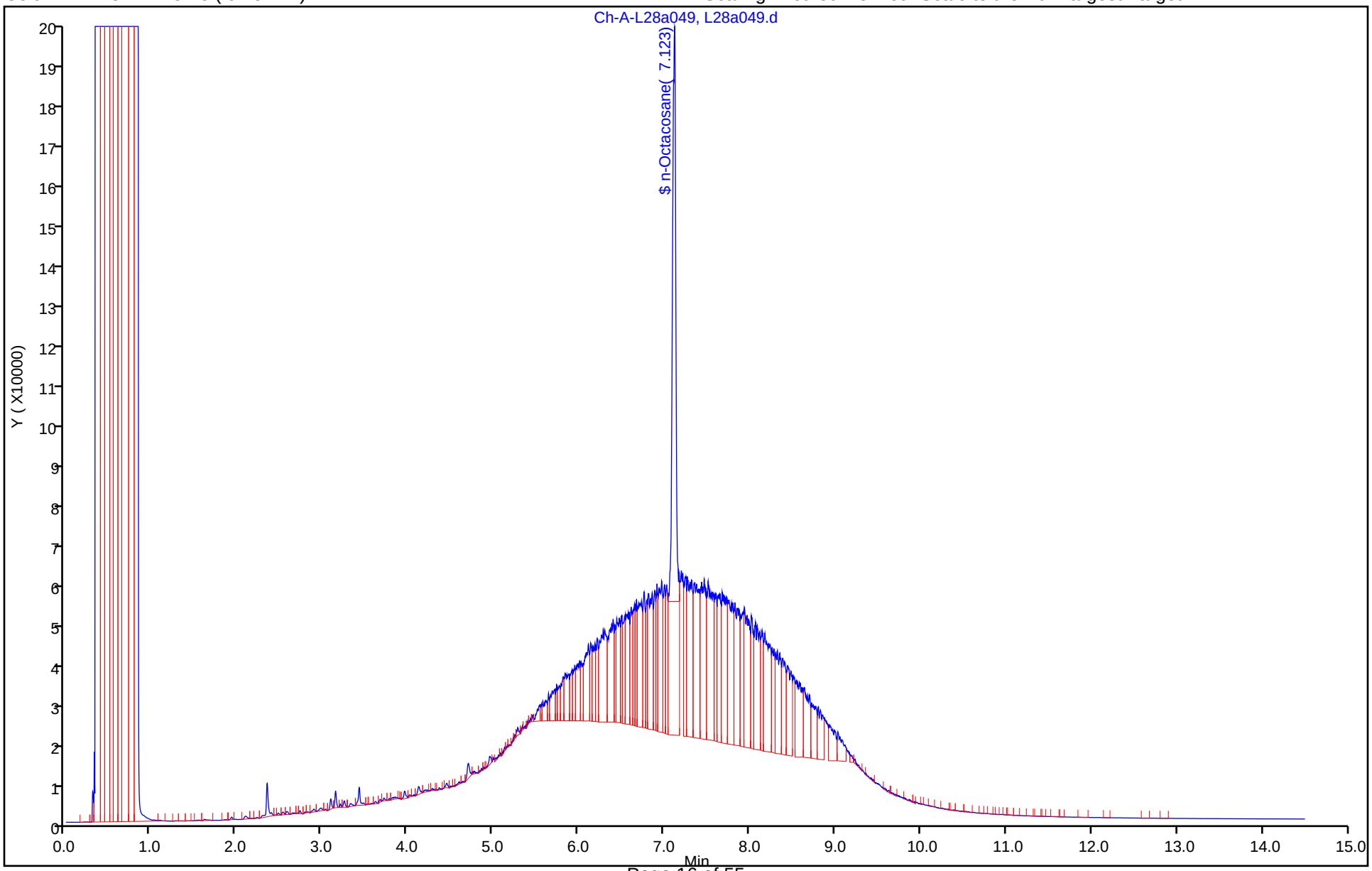
Report Date: 30-Dec-2018 10:49:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a049.d

Injection Date:	29-Dec-2018 01:46:05	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-E-3-A	Lab Sample ID:	440-90445-3	Worklist Smp#:	49
Client ID:	DG-AG3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a049.d
Lims ID: 720-90445-E-3-A
Client ID: DG-AG3W
Sample Type: Client
Inject. Date: 29-Dec-2018 01:46:05 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A

Method: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 30-Dec-2018 10:49:01 Calib Date: 21-Dec-2018 12:10:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0332

First Level Reviewer: doanm Date: 30-Dec-2018 10:49:01

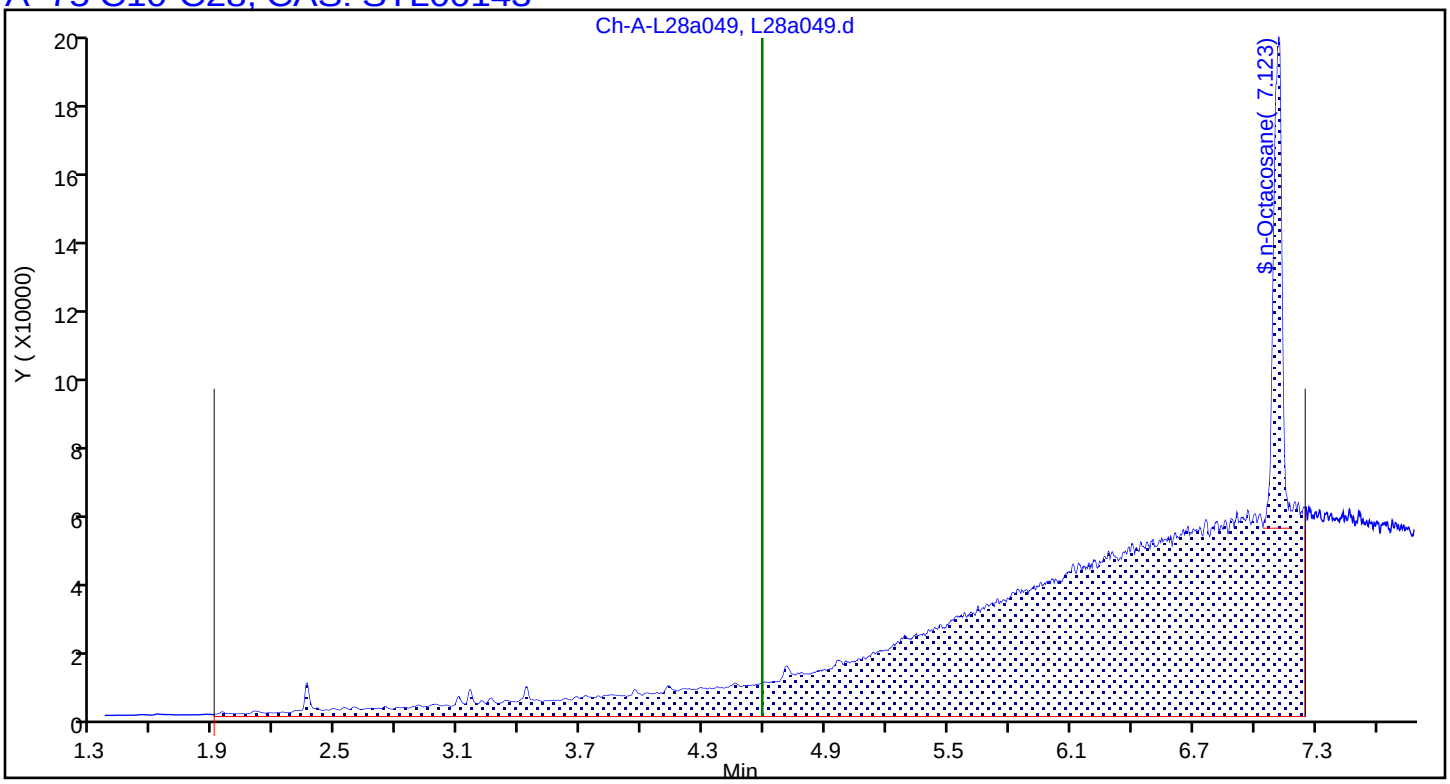
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	116.6	58.31

Report Date: 30-Dec-2018 10:49:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a049.d				
Injection Date:	29-Dec-2018 01:46:05	Instrument ID:	GC69A		
Lims ID:	720-90445-E-3-A	Lab Sample ID:	440-90445-3		
Client ID:	DG-AG3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

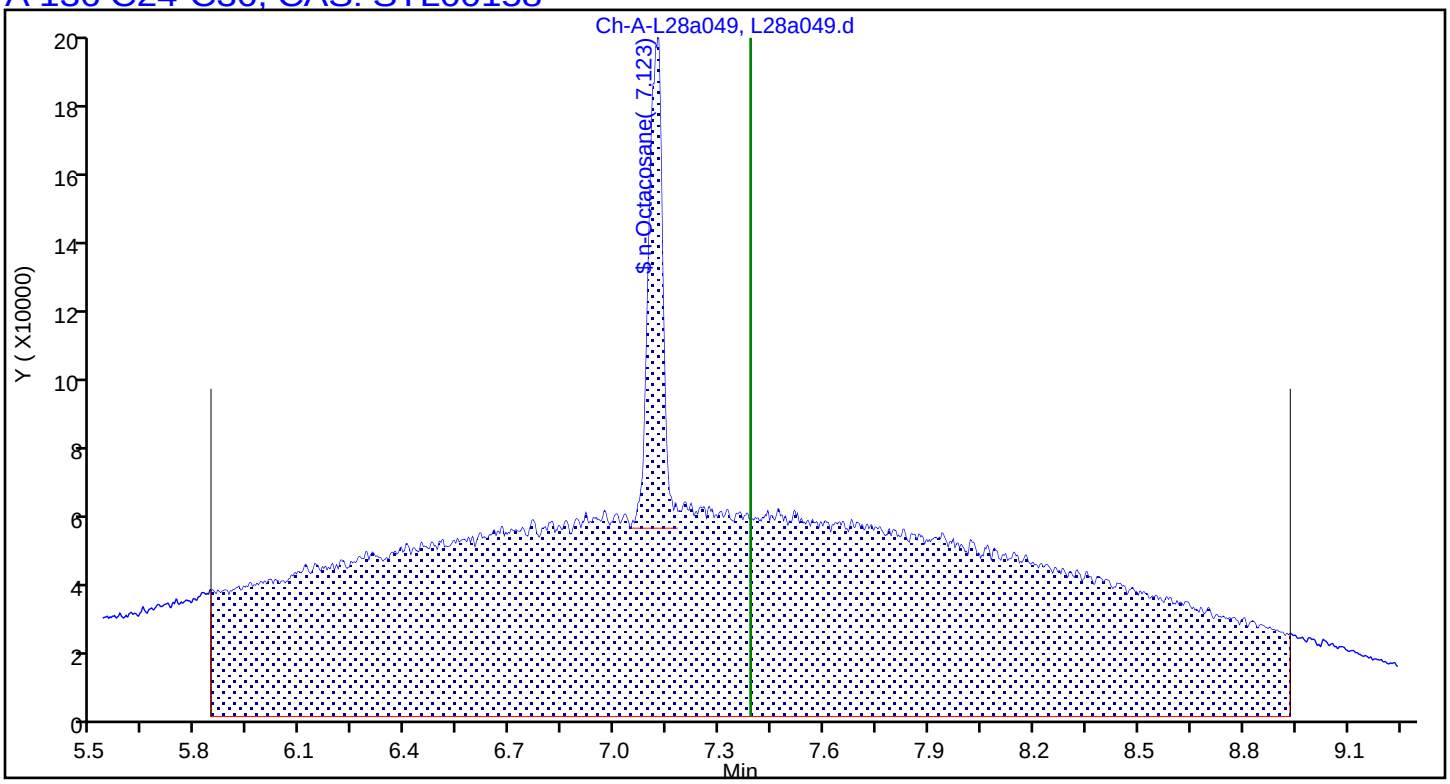


Report Date: 30-Dec-2018 10:49:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a049.d				
Injection Date:	29-Dec-2018 01:46:05	Instrument ID:	GC69A		
Lims ID:	720-90445-E-3-A	Lab Sample ID:	440-90445-3		
Client ID:	DG-AG3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a050.d				
Lims ID:	720-90445-G-4-A				
Client ID:	DG-AI3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 02:06:19	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:15	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:49:15		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.602	(1.910-7.293)		2650172	802.2	
$ 127 n-Octacosane	7.108	7.112	-0.004	410677	126.1	
A 136 C24-C36	7.389	(5.842-8.937)		2103478	636.7	

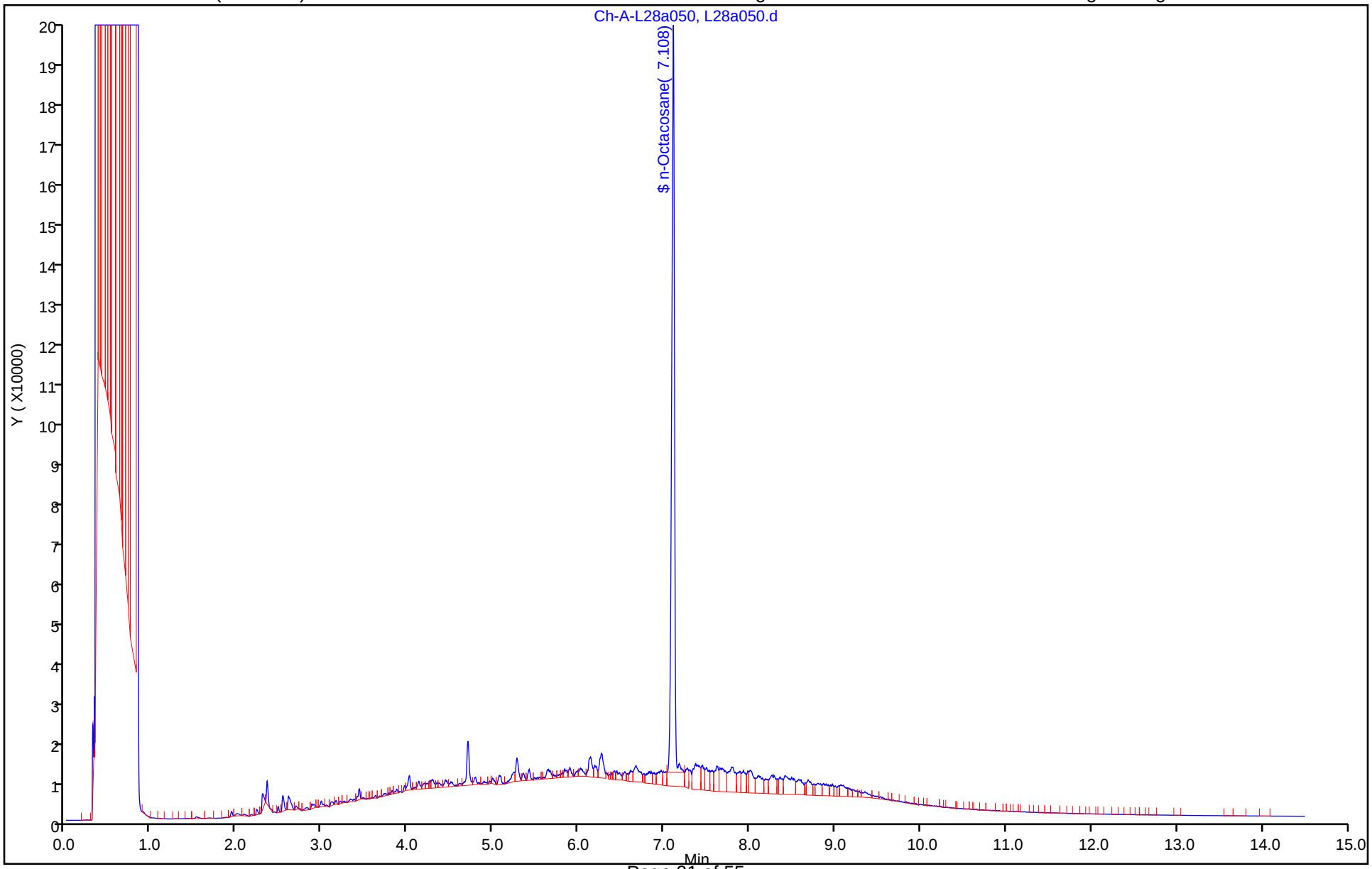
Report Date: 30-Dec-2018 10:49:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a050.d

Injection Date:	29-Dec-2018 02:06:19	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-G-4-A	Lab Sample ID:	440-90445-4	Worklist Smp#:	50
Client ID:	DG-AI3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a050.d				
Lims ID:	720-90445-G-4-A				
Client ID:	DG-AI3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 02:06:19	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:15	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				

First Level Reviewer: doanm Date: 30-Dec-2018 10:49:15

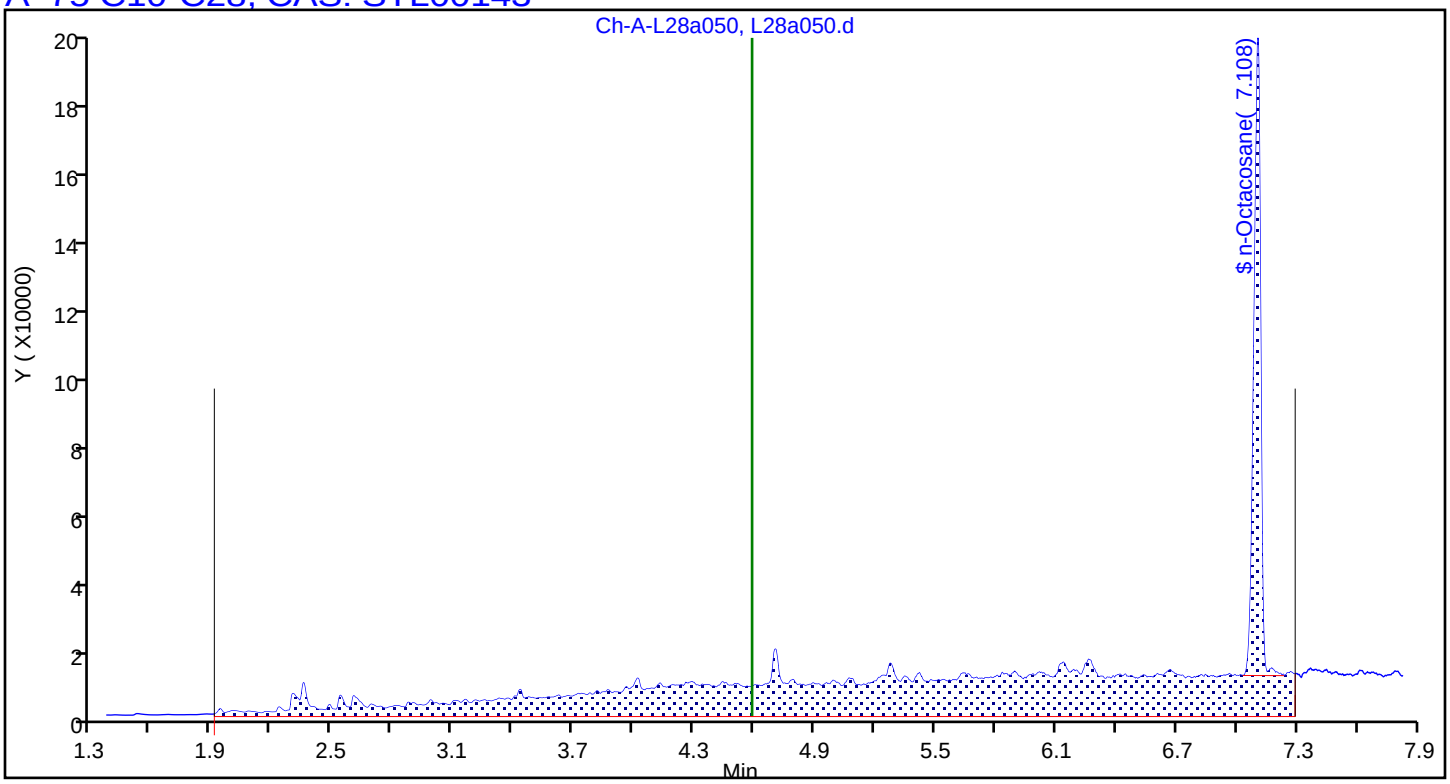
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	126.1	63.03

Report Date: 30-Dec-2018 10:49:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a050.d				
Injection Date:	29-Dec-2018 02:06:19	Instrument ID:	GC69A		
Lims ID:	720-90445-G-4-A	Lab Sample ID:	440-90445-4		
Client ID:	DG-AI3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

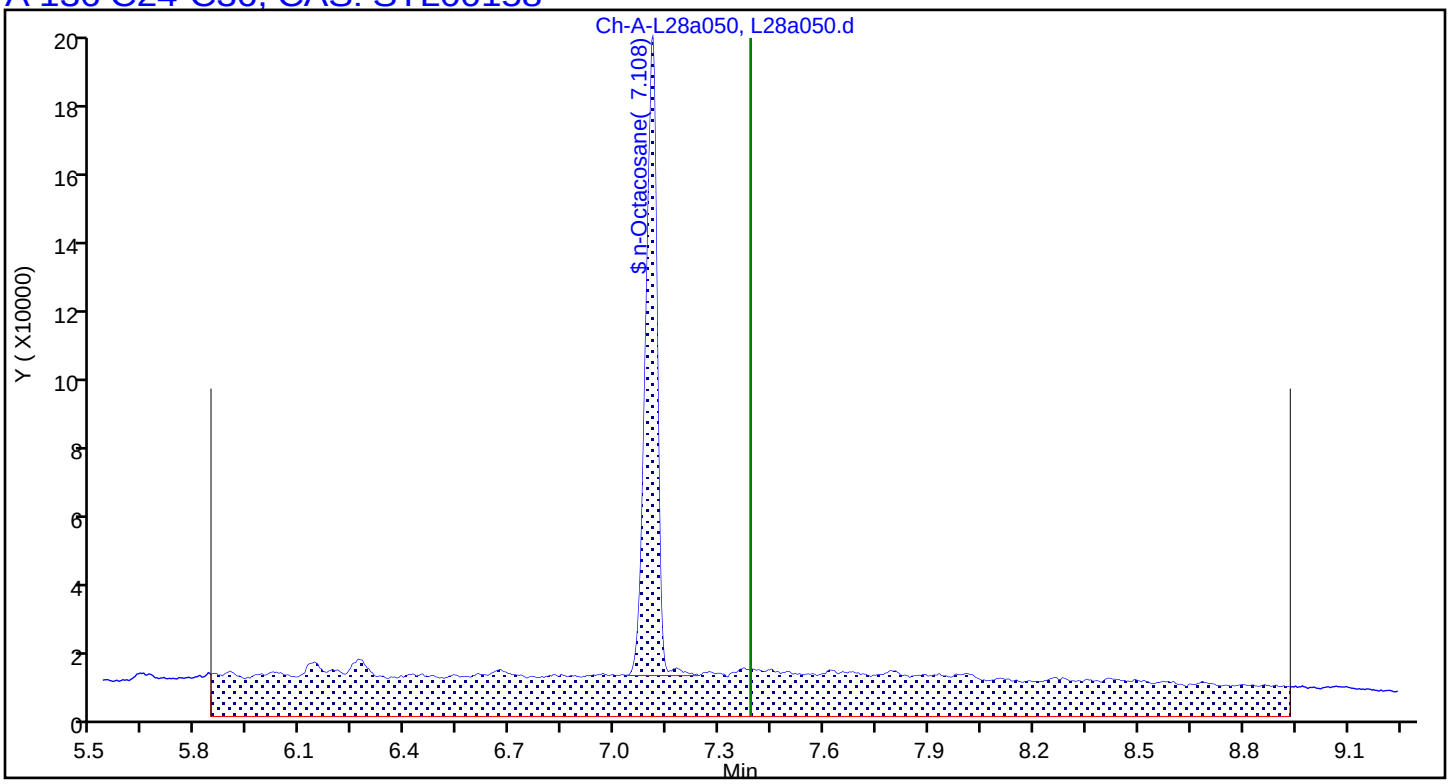


Report Date: 30-Dec-2018 10:49:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a050.d				
Injection Date:	29-Dec-2018 02:06:19	Instrument ID:	GC69A		
Lims ID:	720-90445-G-4-A	Lab Sample ID:	440-90445-4		
Client ID:	DG-AI3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a051.d				
Lims ID:	720-90445-D-5-A				
Client ID:	DUP-17				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 02:26:53	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:29	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:49:29		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.598	(1.903-7.293)		2188300	662.4	
$ 127 n-Octacosane	7.103	7.112	-0.009	349035	107.1	
A 136 C24-C36	7.389	(5.842-8.937)		1710050	517.6	

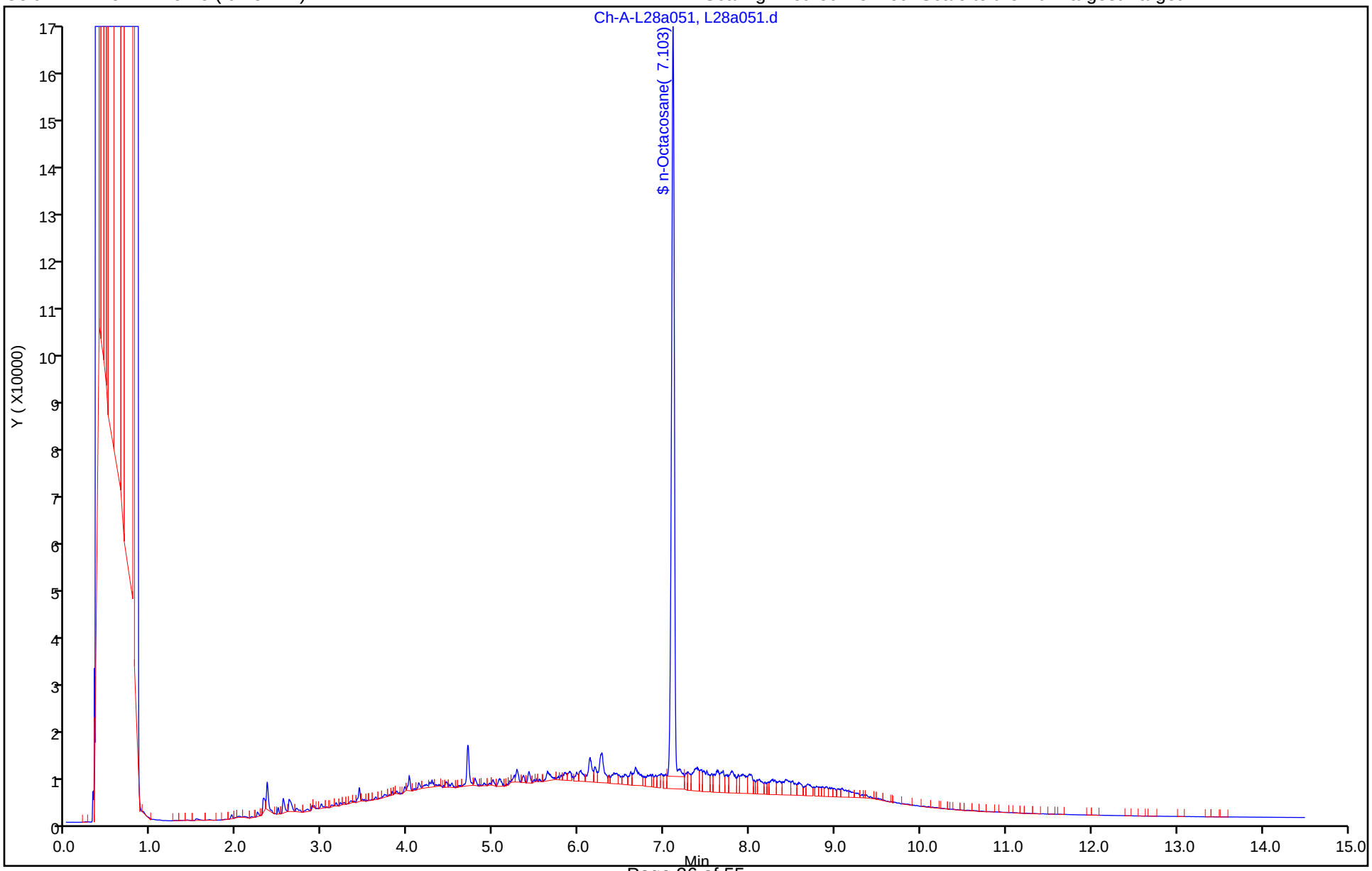
Report Date: 30-Dec-2018 10:49:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a051.d

Injection Date:	29-Dec-2018 02:26:53	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-D-5-A	Lab Sample ID:	440-90445-5	Worklist Smp#:	51
Client ID:	DUP-17				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a051.d				
Lims ID:	720-90445-D-5-A				
Client ID:	DUP-17				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 02:26:53	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:29	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				

First Level Reviewer: doanm Date: 30-Dec-2018 10:49:29

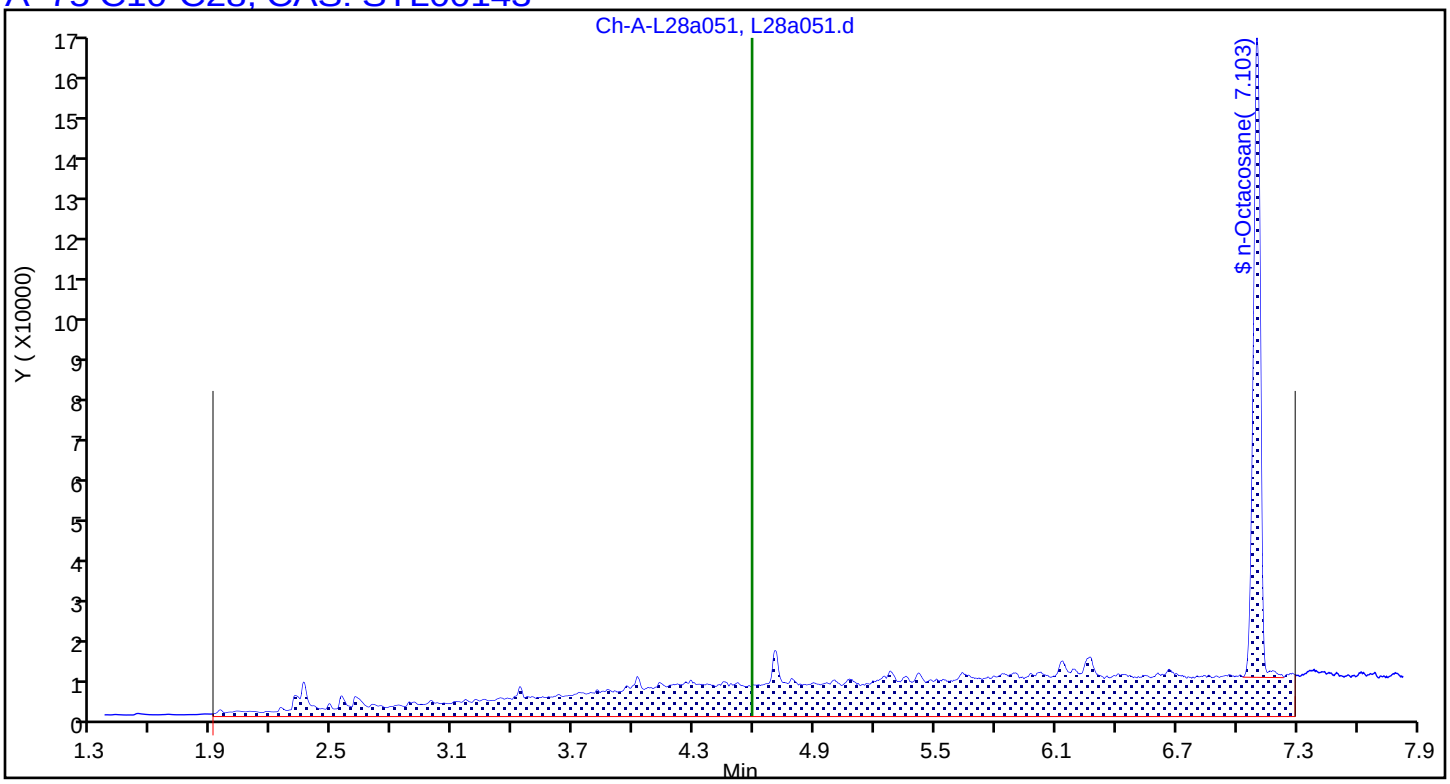
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	107.1	53.57

Report Date: 30-Dec-2018 10:49:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a051.d				
Injection Date:	29-Dec-2018 02:26:53	Instrument ID:	GC69A		
Lims ID:	720-90445-D-5-A	Lab Sample ID:	440-90445-5		
Client ID:	DUP-17				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

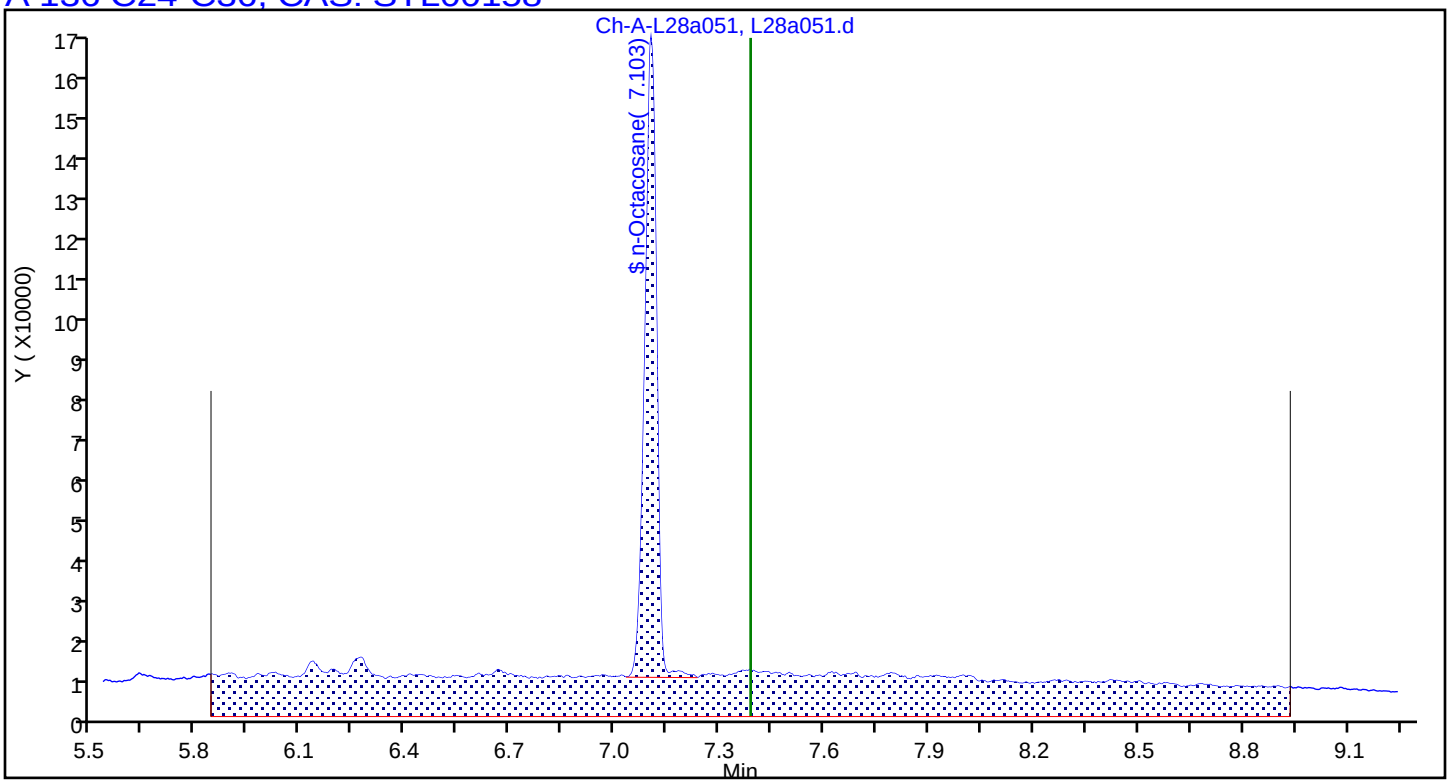


Report Date: 30-Dec-2018 10:49:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a051.d				
Injection Date:	29-Dec-2018 02:26:53	Instrument ID:	GC69A		
Lims ID:	720-90445-D-5-A	Lab Sample ID:	440-90445-5		
Client ID:	DUP-17				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a052.d				
Lims ID:	720-90445-D-7-A				
Client ID:	DG-AK3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 02:47:08	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:43	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:49:43		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.601	(1.908-7.293)		1729290	523.4	
$ 127 n-Octacosane	7.105	7.112	-0.007	371622	114.1	
A 136 C24-C36	7.389	(5.842-8.937)		1319123	399.3	

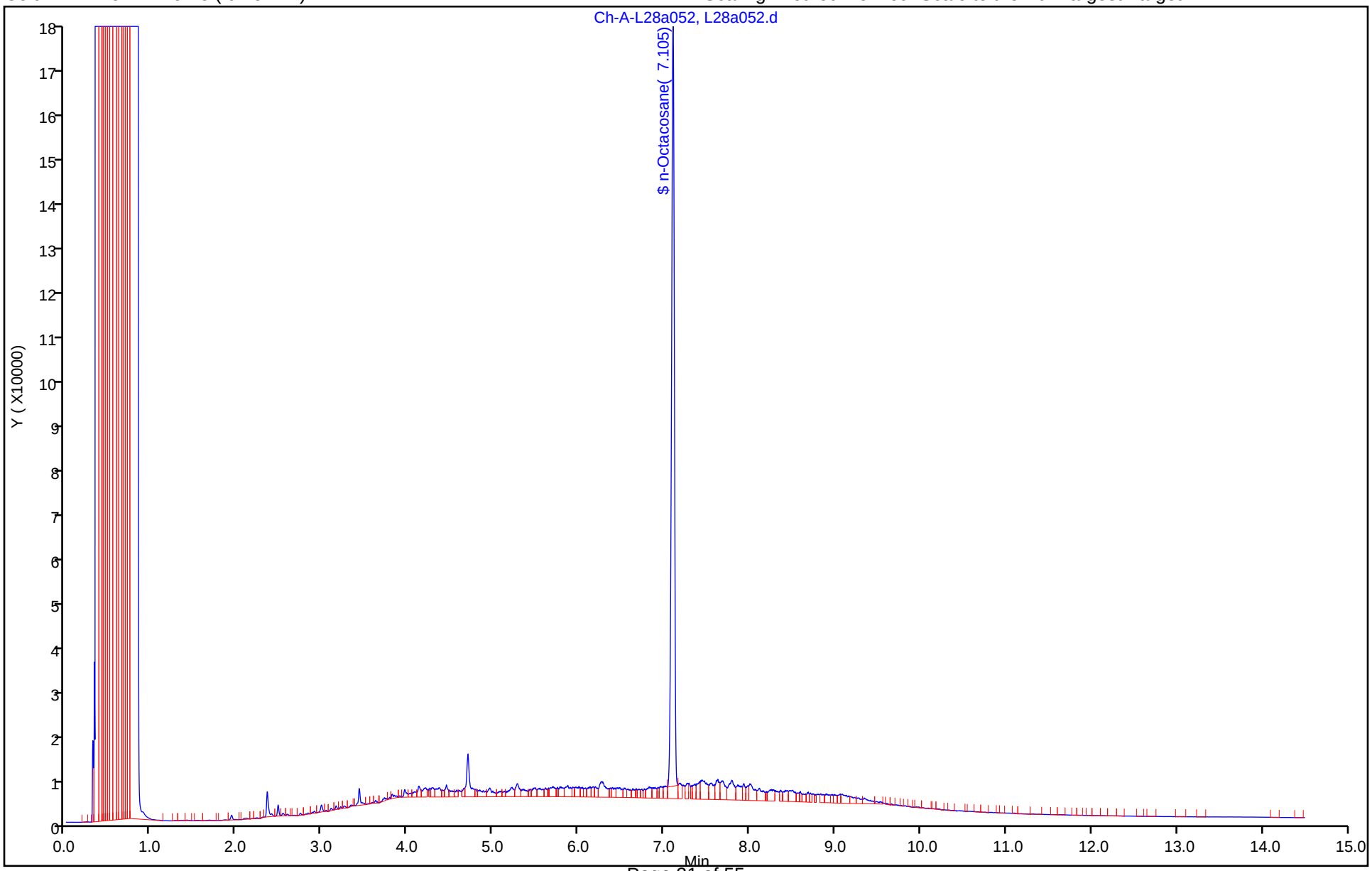
Report Date: 30-Dec-2018 10:49:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a052.d

Injection Date:	29-Dec-2018 02:47:08	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-D-7-A	Lab Sample ID:	440-90445-7	Worklist Smp#:	52
Client ID:	DG-AK3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a052.d				
Lims ID:	720-90445-D-7-A				
Client ID:	DG-AK3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 02:47:08	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:43	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:49:43		

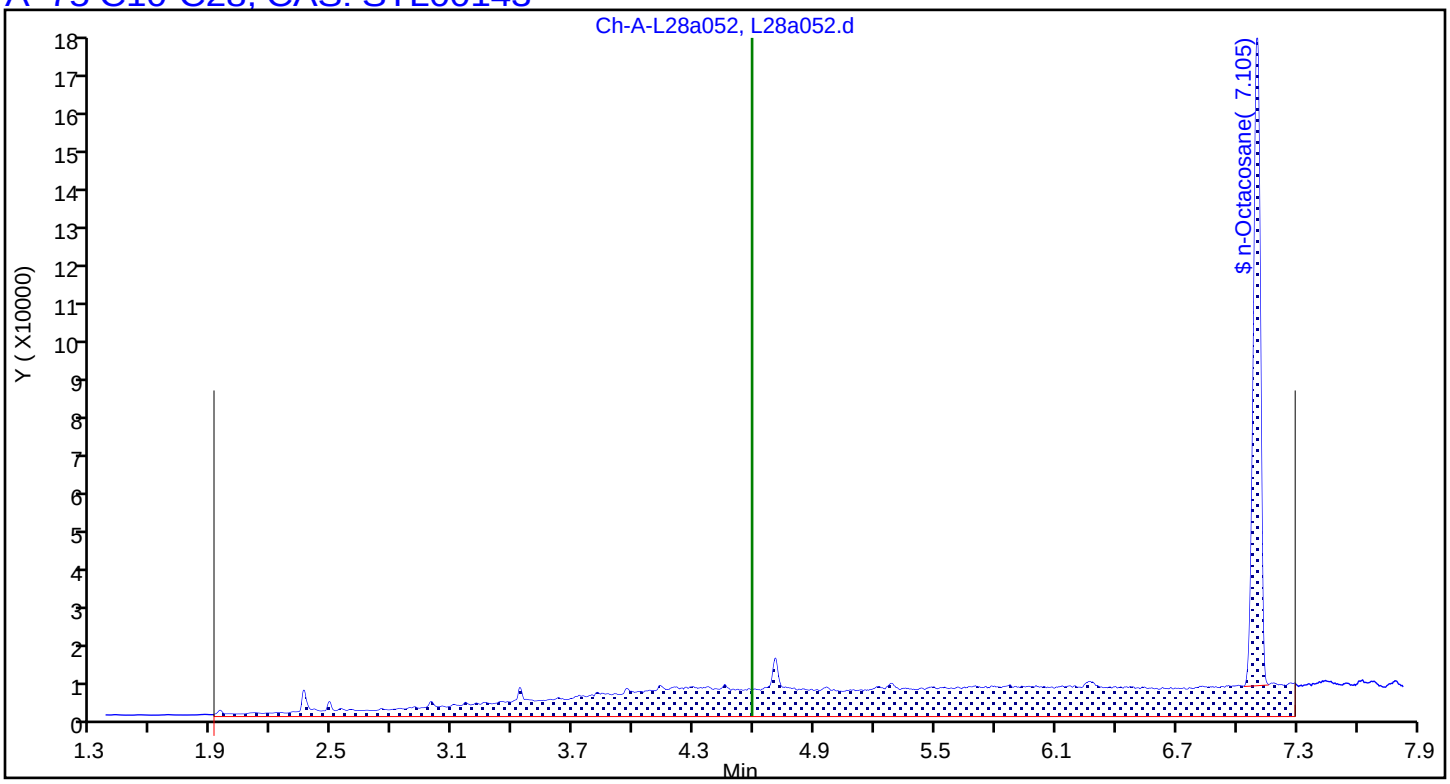
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	114.1	57.03

Report Date: 30-Dec-2018 10:49:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a052.d				
Injection Date:	29-Dec-2018 02:47:08	Instrument ID:	GC69A		
Lims ID:	720-90445-D-7-A	Lab Sample ID:	440-90445-7		
Client ID:	DG-AK3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

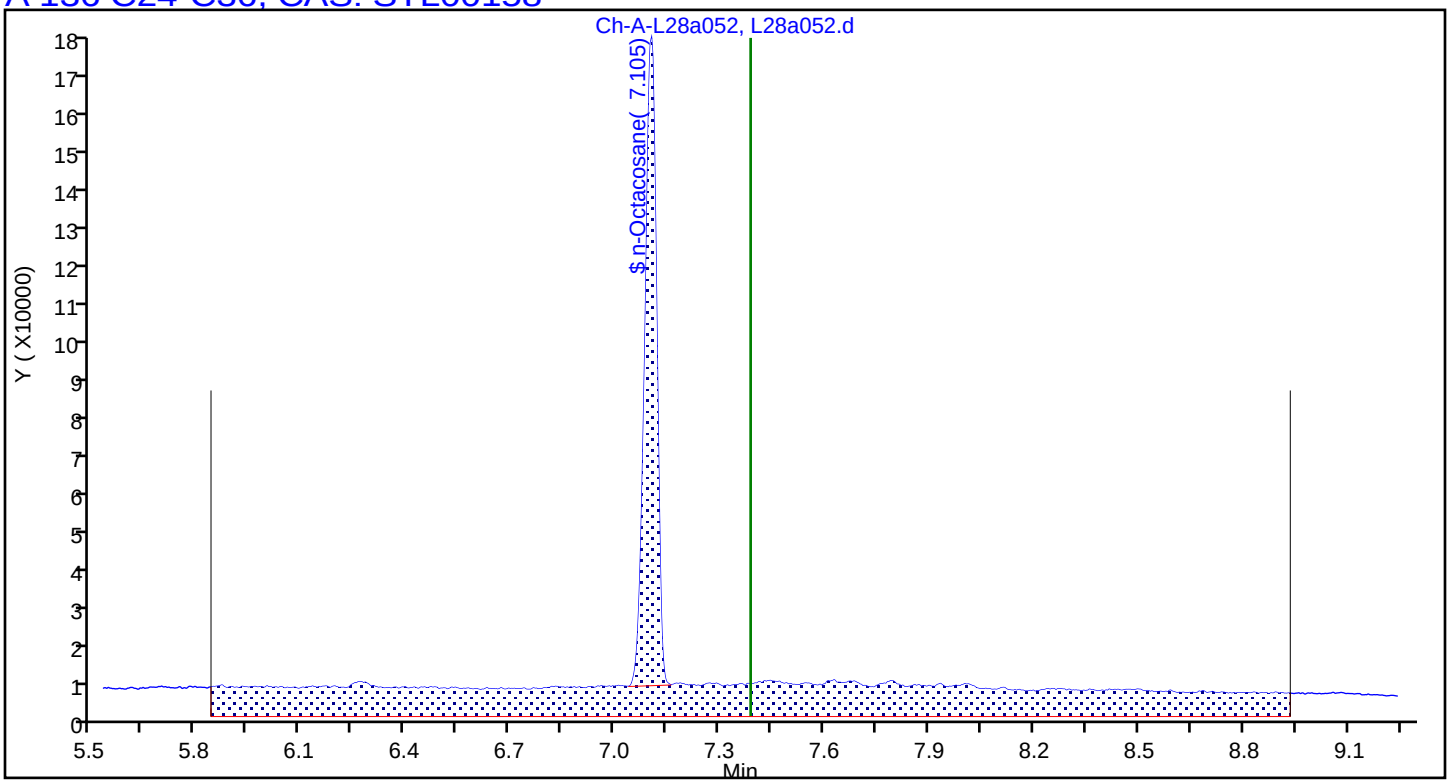


Report Date: 30-Dec-2018 10:49:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a052.d				
Injection Date:	29-Dec-2018 02:47:08	Instrument ID:	GC69A		
Lims ID:	720-90445-D-7-A	Lab Sample ID:	440-90445-7		
Client ID:	DG-AK3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC69A\20181226-113532.b\L26a039.d
Lims ID: 720-90445-E-8-A
Client ID: DG-AM3W
Sample Type: Client
Inject. Date: 26-Dec-2018 22:00:32 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A

Method: \\chromna\Irvine\ChromData\GC69A\20181226-113532.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 27-Dec-2018 09:53:35 Calib Date: 21-Dec-2018 12:10:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0311

First Level Reviewer: doanm Date: 27-Dec-2018 09:53:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 2 C7 Range	0.668	(0.338-0.997)		29553762	8945.4	E
A 4 C8 Range	1.249	(0.997-1.502)		12947	3.92	
A 6 C8-C9	1.438	(0.997-1.878)		26224	7.94	
A 8 C8-C10	1.628	(0.997-2.258)		48805	14.8	
A 9 C9 Range	1.690	(1.502-1.878)		13277	4.02	
A 10 C8-C11	1.799	(0.997-2.602)		87832	26.6	
A 11 C9-C10	1.880	(1.502-2.258)		35858	10.9	
A 12 C7-C14	1.885	(0.338-3.432)		29764384	9009.1	E
A 14 C10 Range	2.068	(1.878-2.258)		22580	6.83	
A 15 C9-C12	2.194	(1.502-2.887)		106926	32.4	
A 16 C10-C11	2.240	(1.878-2.602)		61608	18.6	
A 196 C9-C13	2.328	(1.502-3.153)		144823	43.8	
A 20 C8-C15	2.348	(0.997-3.700)		267930	81.1	
A 21 C10-C12	2.383	(1.878-2.887)		93648	28.3	
A 22 C11 Range	2.430	(2.258-2.602)		39027	11.8	
A 23 C8-C16	2.478	(0.997-3.960)		334073	101.1	
A 24 C11-C12	2.573	(2.258-2.887)		71068	21.5	
A 29 C8-C18 DRO	2.700	(0.997-4.403)		463132	140.2	
A 27 C8-C18	2.700	(0.997-4.403)		463132	124.0	
A 30 C9-C16	2.731	(1.502-3.960)		321126	97.2	
A 31 C12 Range	2.744	(2.602-2.887)		32040	9.70	
A 32 C9 - C17	2.855	(1.502-4.208)		391845	118.6	
A 33 C12-C13	2.878	(2.602-3.153)		69937	21.2	
35 C13	2.912	2.930	-0.018	569	0.1722	
A 34 C9 - C18	2.953	(1.502-4.403)		450185	136.3	
A 36 C12-C14	3.017	(2.602-3.432)		122789	37.2	
A 37 C13 Range	3.020	(2.887-3.153)		37897	11.5	
A 199 C10-C18	3.141	(1.878-4.403)		436907	132.2	
A 38 C13-C14	3.159	(2.887-3.432)		90748	27.5	
39 n-Tetradecane	3.222	3.210	0.012	422	0.1277	
A 40 C8-C22	3.244	(0.997-5.492)		777838	235.4	
A 43 C14 Range	3.293	(3.153-3.432)		52851	16.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 41 C13-C15	3.293	(2.887-3.700)		148056	44.8	
A 44 C14-C15	3.427	(3.153-3.700)		110159	33.3	
A 47 C8-C24	3.548	(0.997-6.100)		948378	287.1	
A 48 C14-C16	3.557	(3.153-3.960)		176302	53.4	
A 46 C10-C21	3.565	(1.878-5.252)		678376	205.3	
A 50 C10-C22	3.685	(1.878-5.492)		751614	227.5	
A 49 C15-C16	3.696	(3.432-3.960)		123451	37.4	
A 52 C9-C24	3.801	(1.502-6.100)		935430	283.1	
A 55 C11-C22	3.875	(2.258-5.492)		729033	220.7	
A 53 C10-C23	3.889	(1.878-5.900)		865706	262.0	
A 54 C12-C21	3.927	(2.602-5.252)		616768	186.7	
A 56 C16-C17	3.954	(3.700-4.208)		136862	41.4	
A 58 C10-C24	3.989	(1.878-6.100)		922153	279.1	
A 57 C9-C25	3.995	(1.502-6.488)		1045578	316.5	
A 60 C12-C22	4.047	(2.602-5.492)		690006	208.9	
A 61 C8-C28	4.147	(0.997-7.297)		1239156	375.1	
A 64 C15-C20	4.154	(3.432-4.877)		398374	120.6	
A 65 C17-C18	4.182	(3.960-4.403)		129059	39.1	
A 63 C10-C25	4.183	(1.878-6.488)		1032301	312.5	
A 66 C13-C22	4.189	(2.887-5.492)		657965	199.2	
A 67 C12-C23	4.251	(2.602-5.900)		804098	243.4	
A 71 C12-C24	4.351	(2.602-6.100)		860545	260.5	
A 69 C8-C30	4.380	(0.997-7.763)		1319747	399.5	
A 70 C13-C23	4.393	(2.887-5.900)		772057	233.7	
A 72 C18-C19	4.404	(4.208-4.600)		113555	34.4	
A 76 C8-C32	4.501	(0.997-8.005)		1356786	410.7	
74 C19	4.508	4.525	-0.017	5882	1.78	
A 62 Diesel	4.588	(1.878-7.297)		1033476	312.8	
A 75 C10-C28	4.603	(1.908-7.297)		1211898	366.8	
A 77 C16-C22	4.596	(3.700-5.492)		509908	154.3	
A 78 C19-C20	4.640	(4.403-4.877)		145863	44.2	
A 87 C7-C36	4.645	(0.338-8.952)		31023575	9390.3	E
A 80 C10-C30	4.821	(1.878-7.763)		1293522	391.5	
A 81 C8-C34	4.872	(0.997-8.747)		1447662	438.2	
A 82 C20-C21	4.926	(4.600-5.252)		186252	56.4	
A 84 C10-C32	4.942	(1.878-8.005)		1330561	402.7	
A 197 C13-C27	4.963	(2.887-7.040)		1067753	323.2	
A 83 C8-C36	4.974	(0.997-8.952)		1469813	444.9	
A 85 C13-C28	5.092	(2.887-7.297)		1119282	338.8	
A 88 C21-C22	5.184	(4.877-5.492)		168842	51.1	
A 89 C20-C23	5.250	(4.600-5.900)		373582	113.1	
A 90 C13-C30	5.325	(2.887-7.763)		1199873	363.2	
A 93 C10-C36	5.415	(1.878-8.952)		1443588	436.9	
A 94 C13-C32	5.446	(2.887-8.005)		1236913	374.4	
A 92 C22-C23	5.576	(5.252-5.900)		187329	56.7	
A 95 C12-C34	5.674	(2.602-8.747)		1359829	411.6	
A 97 C8-C40	5.675	(0.997-10.353)		1576753	477.3	
A 198 C18-C28	5.753	(4.208-7.297)		834363	252.5	
A 98 C23-C24	5.796	(5.492-6.100)		170539	51.6	
A 99 C9-C40	5.913	(1.502-10.323)		1562161	472.8	
A 102 C13-C36	5.919	(2.887-8.952)		1349939	408.6	
A 209 C17-C32	5.983	(3.960-8.005)		1022713	309.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 100 C18-C30	5.986	(4.208-7.763)		914954	276.9	
A 104 C10-C40	6.116	(1.878-10.353)		1550528	469.3	
A 103 C24-C25	6.194	(5.900-6.488)		166595	50.4	
105 C25	6.258	6.263	-0.005	16315	4.94	
A 110 C20-C32	6.303	(4.600-8.005)		838437	253.8	
A 106 C21-C30	6.320	(4.877-7.763)		710750	215.1	
A 108 C16-C36	6.326	(3.700-8.952)		1201882	363.8	
A 109 C25-C26	6.427	(6.100-6.753)		172887	52.3	
A 112 C17-C36	6.456	(3.960-8.952)		1135739	343.8	
A 107 C24-C27	6.470	(5.900-7.040)		295696	89.5	
A 114 C18-C36	6.580	(4.208-8.952)		1065020	322.4	
A 115 C13-C40	6.620	(2.887-10.353)		1456880	441.0	
A 116 C13 - C40	6.620	(2.887-10.353)		1456880	441.0	
A 119 C22-C32	6.628	(5.252-8.005)		652185	197.4	
A 117 C25-C28	6.698	(6.100-7.297)		290777	88.0	
A 121 C8-C44	6.710	(0.997-12.423)		1668152	504.9	
A 122 C23-C32	6.748	(5.492-8.005)		578947	175.2	
A 118 C26-C27	6.764	(6.488-7.040)		129100	39.1	
A 210 C20-C36	6.776	(4.600-8.952)		951464	288.0	
120 C27	6.822	6.827	-0.005	8031	2.43	
A 125 C24-C32	6.953	(5.900-8.005)		464855	140.7	
A 126 C16-C40	7.022	(3.700-10.343)		1308276	396.0	
A 123 C27-C28	7.025	(6.753-7.297)		117890	35.7	
A 128 C23-C34	7.119	(5.492-8.747)		669823	202.7	
$ 127 n-Octacosane	7.112	7.128	-0.016	524952	161.1	
A 132 C10-C44	7.151	(1.878-12.423)		1641927	497.0	
A 133 C23-C36	7.222	(5.492-8.952)		691974	209.4	
A 124 C22-C35	7.224	(5.252-9.197)		790129	239.2	
A 130 C28-C29	7.258	(7.040-7.477)		84155	25.5	
A 131 C18-C40	7.281	(4.208-10.353)		1171960	354.7	
A 129 C23-C35	7.344	(5.492-9.197)		716892	217.0	
134 C29	7.357	7.372	-0.015	4421	1.34	
A 135 C19-C40	7.378	(4.403-10.353)		1113621	337.1	
A 136 C24-C36	7.426	(5.900-8.952)		577882	174.9	
A 139 C20-C40	7.477	(4.600-10.353)		1058404	320.4	
A 141 C25-C36	7.526	(6.100-8.952)		521434	157.8	
A 137 C29-C30	7.530	(7.297-7.763)		80590	24.4	
A 143 C29-C32	7.651	(7.297-8.005)		117630	35.6	
A 144 C13-C44	7.655	(2.887-12.423)		1548278	468.6	
A 138 C28-C31	7.671	(7.040-8.302)		207026	62.7	
A 147 C31-C32	7.884	(7.763-8.005)		37039	11.2	
145 C31	7.907	7.888	0.019	2501	0.7570	
A 142 C30-C31	7.889	(7.477-8.302)		122871	37.2	
A 146 C23-C40	7.923	(5.492-10.353)		798914	241.8	
A 148 C28-C36	7.996	(7.040-8.952)		282185	85.4	
A 150 C24-C40	8.127	(5.900-10.353)		684822	207.3	
152 C33	8.110	8.132	-0.022	873	0.2642	
A 153 C17-C44	8.177	(3.960-12.393)		1332943	403.5	
A 151 C25-C40	8.227	(6.100-10.353)		628375	190.2	
A 155 C33-C34	8.376	(8.005-8.747)		90875	27.5	
A 158 C33-C36	8.478	(8.005-8.952)		113026	34.2	
A 157 C32-C36	8.627	(8.302-8.952)		75159	22.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 154 C32-C35	8.749	(8.302-9.197)		100077	30.3	
A 160 C29-C40	8.825	(7.297-10.353)		337597	102.2	
A 161 C35-C36	8.849	(8.747-8.952)		22151	6.70	
A 164 C23-C44	8.958	(5.492-12.423)		890313	269.5	
A 163 C31-C40	9.058	(7.763-10.353)		257006	77.8	
A 166 C24-C44	9.162	(5.900-12.423)		776221	234.9	
A 167 C33-C40	9.179	(8.005-10.353)		219966	66.6	
A 168 C37-C38	9.315	(8.952-9.678)		64854	19.6	
170 C38	9.530	9.542	-0.012	128	0.0387	
A 171 C35-C40	9.545	(8.747-10.343)		128544	38.9	
A 169 C36-C39	9.613	(9.197-10.028)		63162	19.1	
A 174 C37-C40	9.653	(8.952-10.353)		106940	32.4	
A 172 C36-C40	9.775	(9.197-10.353)		82022	24.8	
175 C39	9.830	9.842	-0.012	103	0.0312	
A 177 C29-C44	9.845	(7.297-12.393)		427860	129.5	
A 178 C39-C40	10.016	(9.678-10.353)		42086	12.7	
179 C40	10.195	10.205	-0.010	85	0.0257	
A 180 C33-C44	10.214	(8.005-12.423)		311365	94.2	
A 173 C40-C44	11.226	(10.028-12.423)		110258	33.4	
A 176 C41-C44	11.373	(10.323-12.423)		93042	28.2	
S 189 HC Dist (C13-C44)					469.1	
S 190 HC Dist (C13-C28)					338.8	
S 191 HC Dist (C8-C40)					477.3	
S 192 HC Dist (C8-C44)					505.4	
S 193 HC Dist (C10-C44)					497.5	
S 188 HC Dist (C10-C40)					469.3	
S 195 HC Dist (C13-C40)					441.0	
S 194 HC Dist (C10-C36)					436.9	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

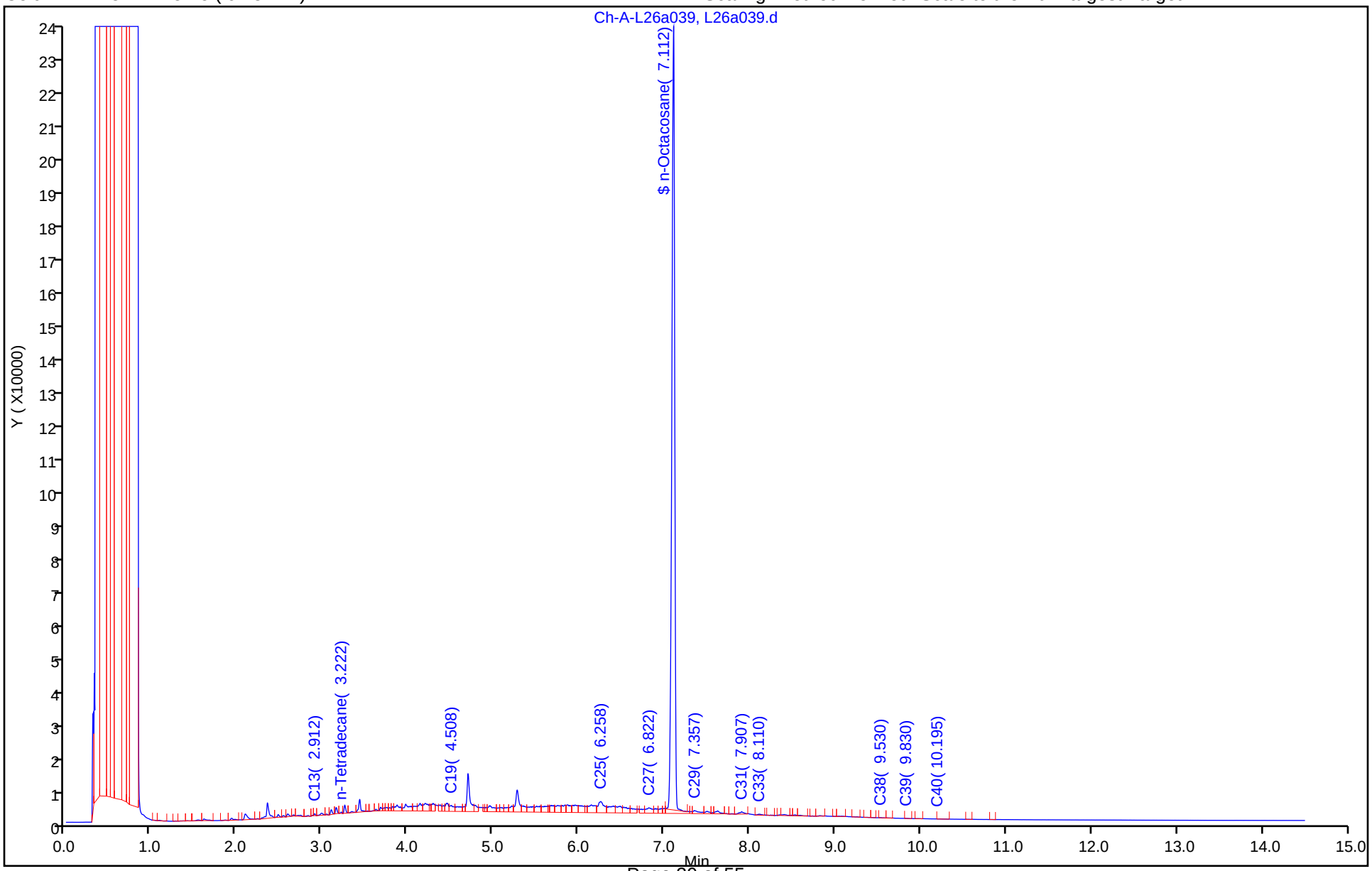
Report Date: 27-Dec-2018 09:53:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181226-113532.b\L26a039.d

Injection Date:	26-Dec-2018 22:00:32	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-E-8-A	Lab Sample ID:	440-90445-8	Worklist Smp#:	39
Client ID:	DG-AM3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181226-113532.b\L26a039.d				
Lims ID:	720-90445-E-8-A				
Client ID:	DG-AM3W				
Sample Type:	Client				
Inject. Date:	26-Dec-2018 22:00:32	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181226-113532.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	27-Dec-2018 09:53:35	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0311				
First Level Reviewer: doanm		Date:	27-Dec-2018 09:53:35		

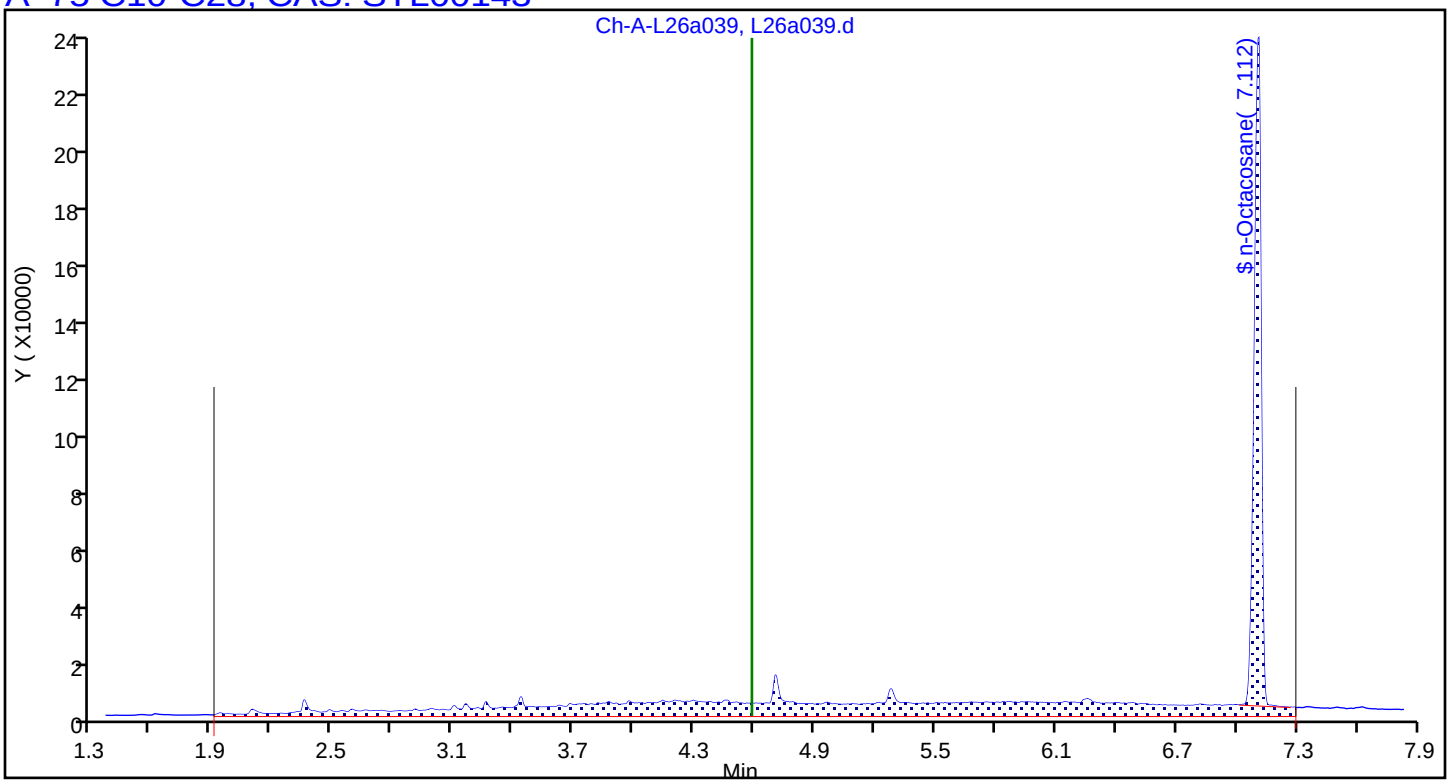
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	161.1	80.56

Report Date: 27-Dec-2018 09:53:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181226-113532.b\L26a039.d				
Injection Date:	26-Dec-2018 22:00:32	Instrument ID:	GC69A		
Lims ID:	720-90445-E-8-A	Lab Sample ID:	440-90445-8		
Client ID:	DG-AM3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

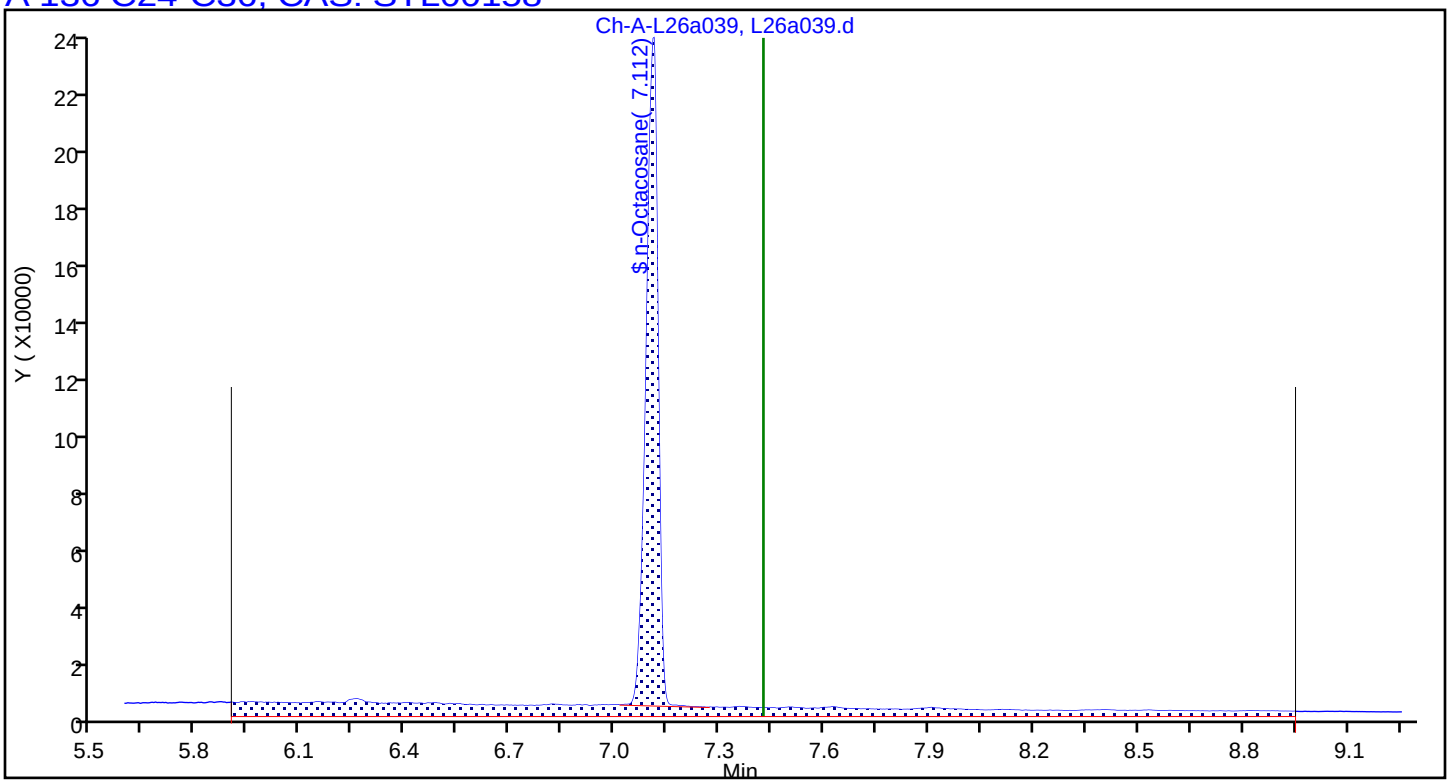


Report Date: 27-Dec-2018 09:53:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181226-113532.b\L26a039.d				
Injection Date:	26-Dec-2018 22:00:32	Instrument ID:	GC69A		
Lims ID:	720-90445-E-8-A	Lab Sample ID:	440-90445-8		
Client ID:	DG-AM3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a053.d				
Lims ID:	720-90445-F-9-A				
Client ID:	DG-AO3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 03:07:22	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:56	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:49:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.908-7.265)		18433657	5579.5	
$ 127 n-Octacosane	7.128	7.112	0.016	463726	142.3	
A 136 C24-C36	7.389	(5.842-8.937)		14562255	4407.7	

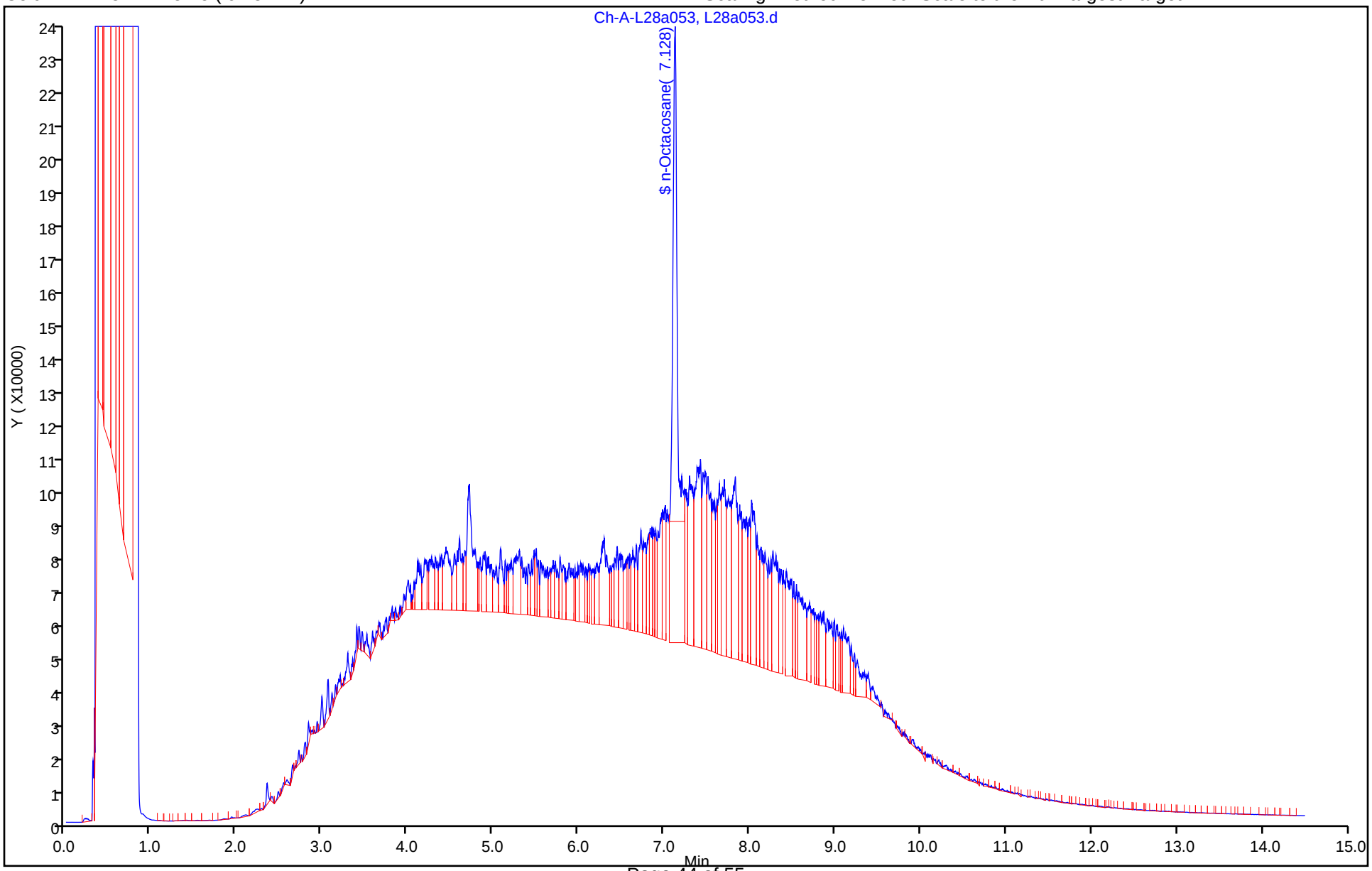
Report Date: 30-Dec-2018 10:49:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a053.d

Injection Date:	29-Dec-2018 03:07:22	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-F-9-A	Lab Sample ID:	440-90445-9	Worklist Smp#:	53
Client ID:	DG-AO3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a053.d				
Lims ID:	720-90445-F-9-A				
Client ID:	DG-AO3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 03:07:22	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:49:56	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:49:56		

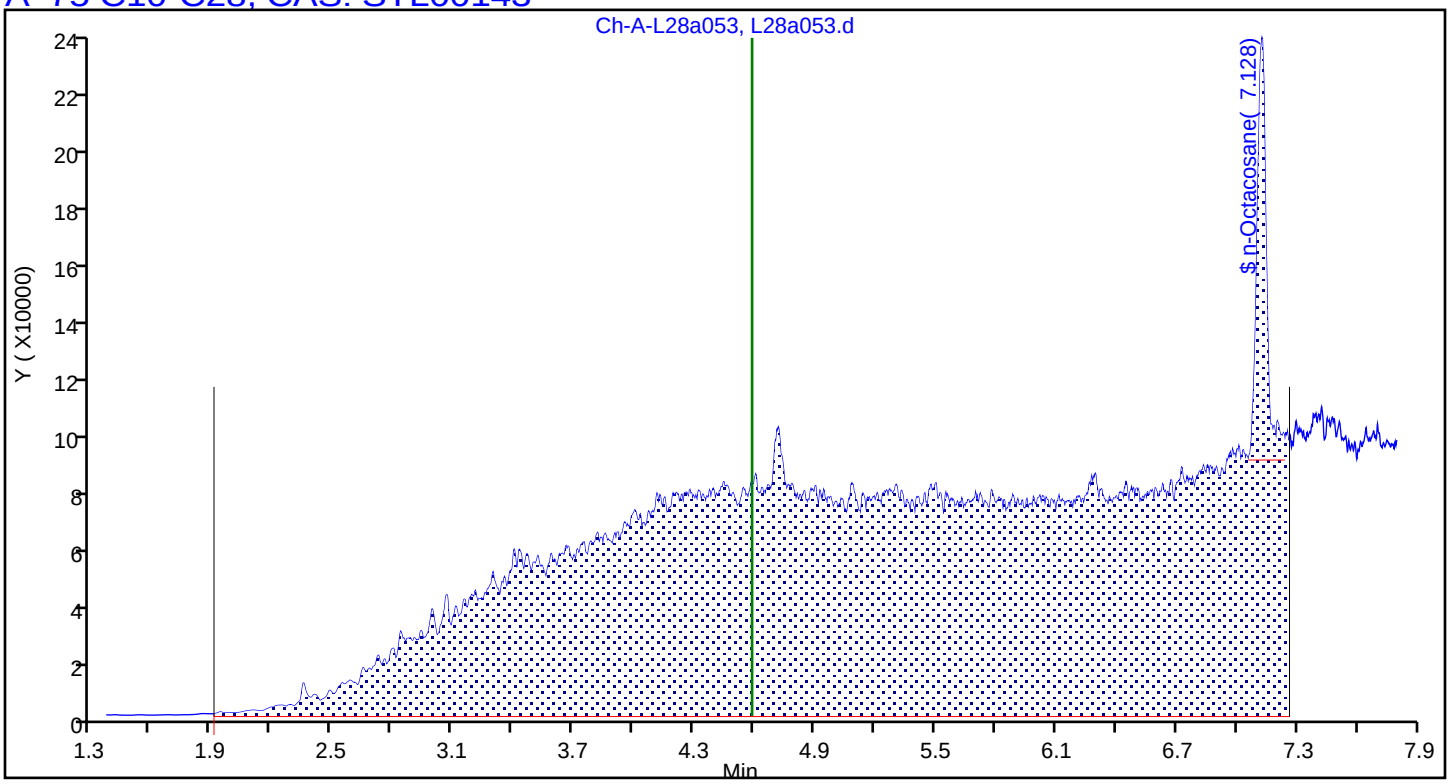
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	142.3	71.17

Report Date: 30-Dec-2018 10:49:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a053.d				
Injection Date:	29-Dec-2018 03:07:22	Instrument ID:	GC69A		
Lims ID:	720-90445-F-9-A	Lab Sample ID:	440-90445-9		
Client ID:	DG-AO3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

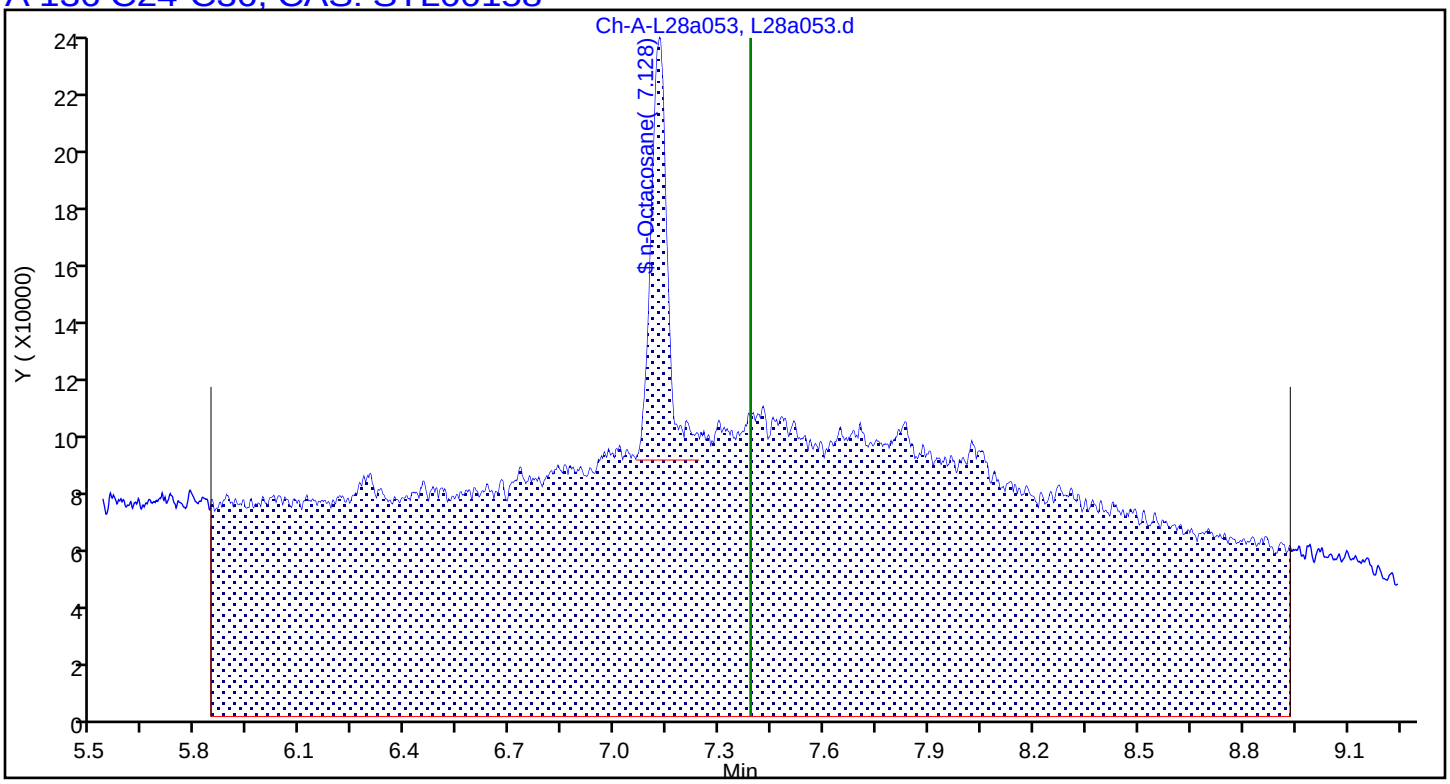


Report Date: 30-Dec-2018 10:49:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a053.d				
Injection Date:	29-Dec-2018 03:07:22	Instrument ID:	GC69A		
Lims ID:	720-90445-F-9-A	Lab Sample ID:	440-90445-9		
Client ID:	DG-AO3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a054.d				
Lims ID:	720-90445-F-10-A				
Client ID:	DG-AQ3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 03:27:43	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:50:10	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:50:10		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.594	(1.908-7.280)		1621761	490.9	
$ 127 n-Octacosane	7.108	7.112	-0.004	446433	137.0	
A 136 C24-C36	7.389	(5.842-8.937)		1172627	354.9	

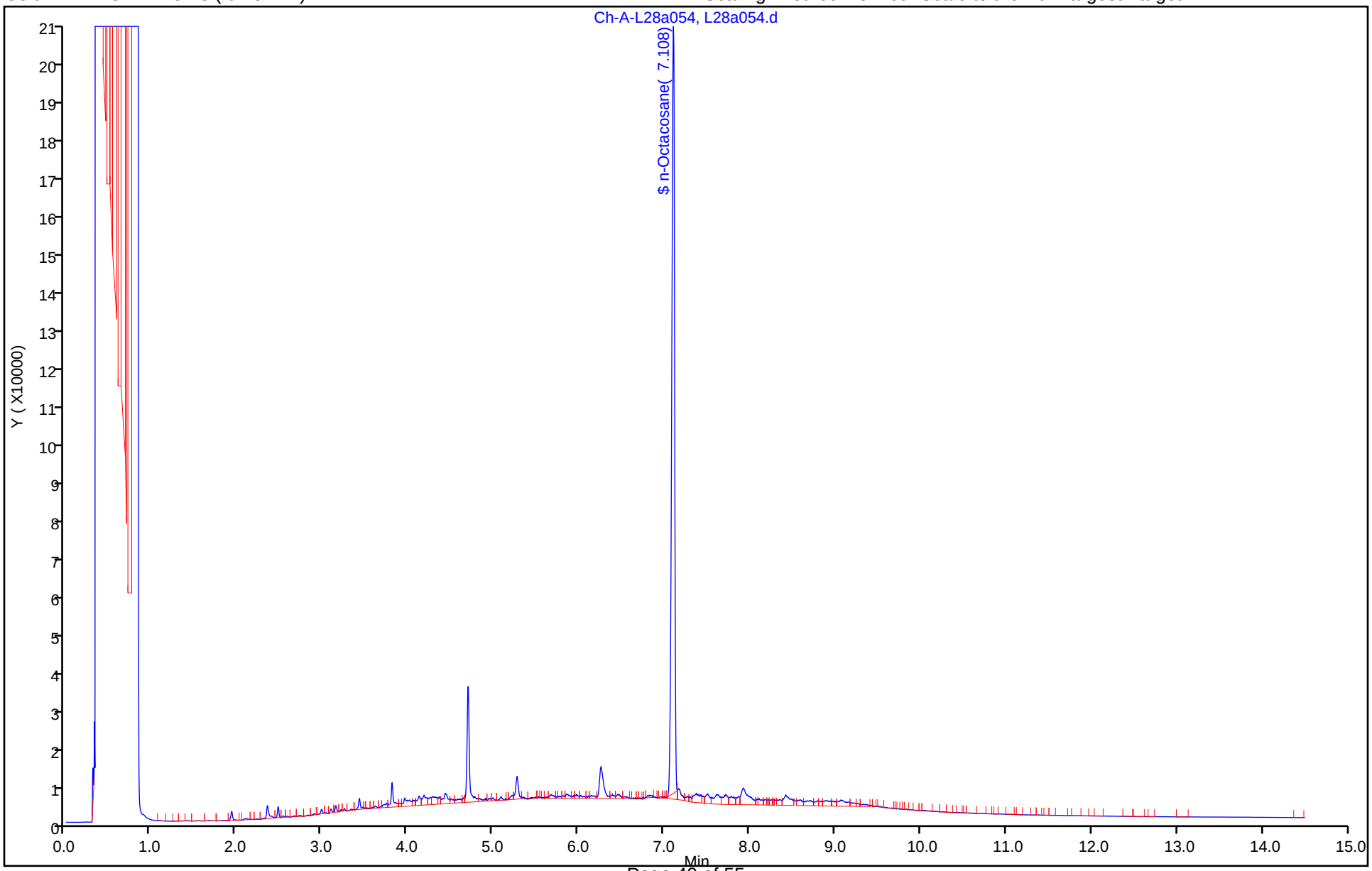
Report Date: 30-Dec-2018 10:50:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a054.d

Injection Date:	29-Dec-2018 03:27:43	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90445-F-10-A	Lab Sample ID:	440-90445-10	Worklist Smp#:	54
Client ID:	DG-AQ3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a054.d				
Lims ID:	720-90445-F-10-A				
Client ID:	DG-AQ3W				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 03:27:43	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:50:10	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:50:10		

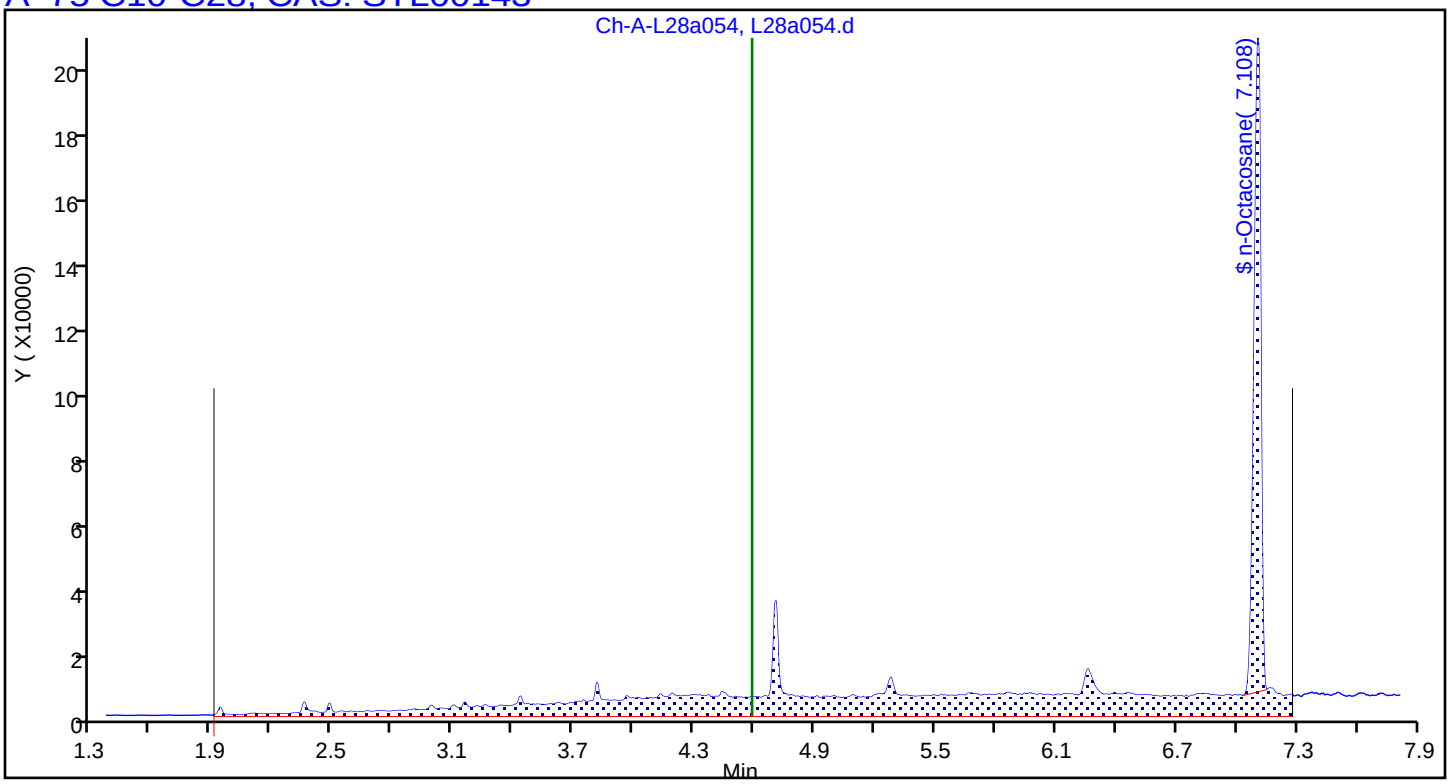
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	137.0	68.51

Report Date: 30-Dec-2018 10:50:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a054.d				
Injection Date:	29-Dec-2018 03:27:43	Instrument ID:	GC69A		
Lims ID:	720-90445-F-10-A	Lab Sample ID:	440-90445-10		
Client ID:	DG-AQ3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

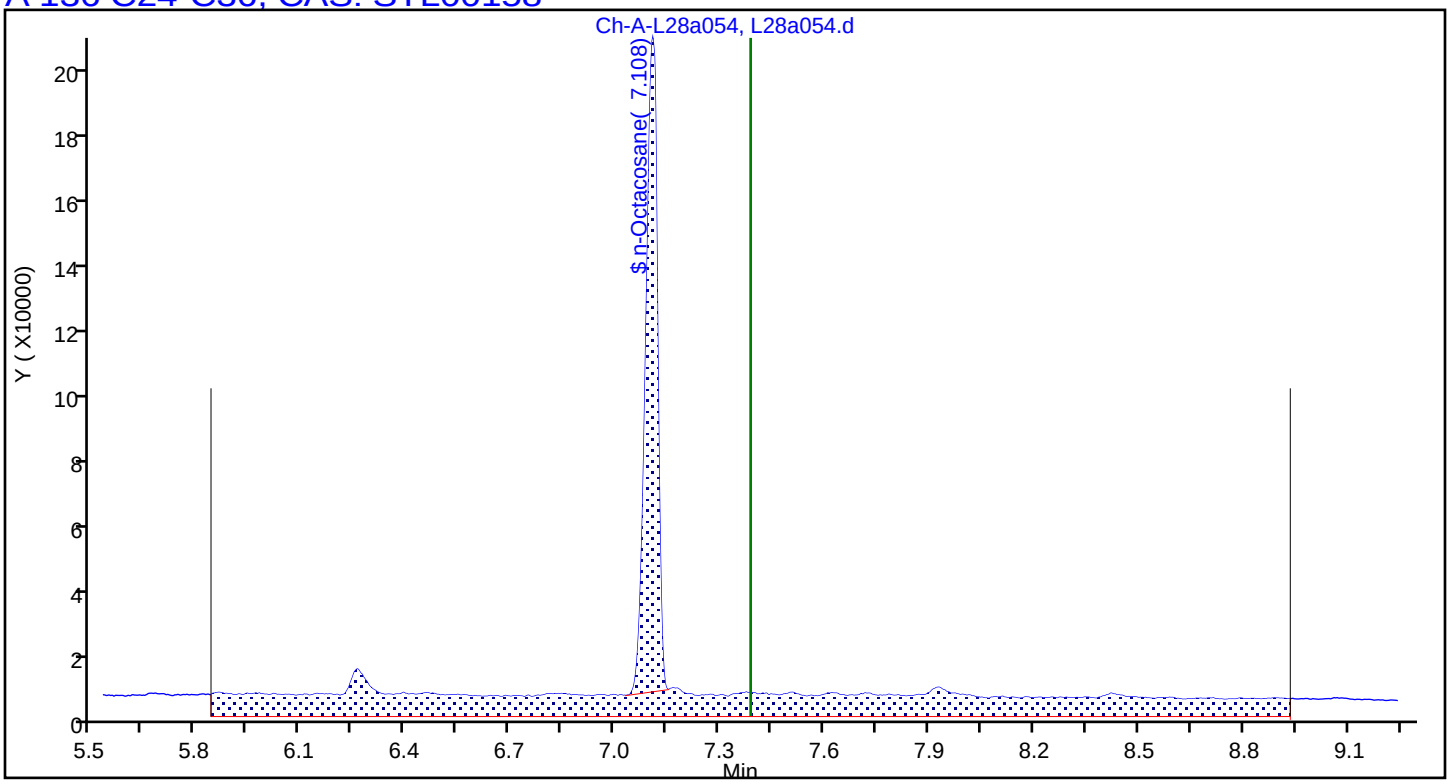


Report Date: 30-Dec-2018 10:50:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a054.d				
Injection Date:	29-Dec-2018 03:27:43	Instrument ID:	GC69A		
Lims ID:	720-90445-F-10-A	Lab Sample ID:	440-90445-10		
Client ID:	DG-AQ3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90445

Chain of Custody Record

187485

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12.19.18	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90445 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-AC3W	12-19-18	0830	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-AE3W	12.19.18	0905				Y		X	X	X	X	X	
3	DG-AG3W	12.19.18	1035				Y		X	X	X	X	X	
4	DG-AI3W	12.19.18	H09				Y		X	X	X	X	X	
5	DUP-17	12.19.18	—				Y		X	X	X	X	X	
6	FB.12.19.18	12.19.18	1140			2			X					
7	DG-AK3W	121918	1300			9	X		X	X	X	X	X	
8	DG-AM3W	121918	1345			17	X	X	X	X	X	X	X	
9	DG-AO3W	12/19/18	1425			9	X		X	X	X	X	X	
10	DG-AQ3W	12/19/18	1510			9	X		X	X	X	X	X	
11	Trip Blank	12/19/18	—			1			X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.6, 1.3, 1.0, 1.4
2.5, 1.2, 1.0, 2.7°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company: GEOSYNTEC	Date/Time: 12/19/18 1545	Received by:	Company: TA-PLS	Date/Time: 12/19/18 1542
Relinquished by	Company: TA-PLS	Date/Time: 12/19/18 1930	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4636 0276 6155	COC No: 720-40597.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90445-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project # 72013947			
Site	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AC3W (720-90445-1)	12/19/18	08:30 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AE3W (720-90445-2)	12/19/18	09:05 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AG3W (720-90445-3)	12/19/18	10:35 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AI3W (720-90445-4)	12/19/18	14:09 Pacific		Water			X	X	X	X	7	check for 2 phases
DUP-17 (720-90445-5)	12/19/18	Pacific		Water			X	X	X	X	7	check for 2 phases
FB-12 19.18 (720-90445-6)	12/19/18	11:40 Pacific		Water			X	X			2	check for 2 phases
DG-AK3W (720-90445-7)	12/19/18	13:00 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AM3W (720-90445-8)	12/19/18	13:45 Pacific		Water			X	X	X	X	5	check for 2 phases
DG-AM3W (720-90445-8MS)	12/19/18	13:45 Pacific	MS	Water			X	X	X	X	5	check for 2 phases

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under *chain-of-custody* If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/20/18 1358	Company: TAPLS	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by: A. Kenney	Date/Time: 12/21/18 10:00	Company: TA IR

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: Temp IR 1.1/1.3 IR-94	

2.1/2.3 1.9/3.1 3.1/3.3

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-40597.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90445-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X					X	
DG-AM3W (720-90445-8MSD)	12/19/18	13:45 Pacific	MSD	Water			X	X	X	X	5	check for 2 phases
DG-AO3W (720-90445-9)	12/19/18	14:25 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AQ3W (720-90445-10)	12/19/18	15:10 Pacific		Water			X	X	X	X	7	check for 2 phases
TRIP BLANK (720-90445-11)	12/19/18	Pacific		Water			X	X			1	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment			
Relinquished by	Date/Time 12/20/18 1358	Company TAPLS	Received by:	Date/Time	Company	
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company	
Relinquished by	Date/Time	Company	Received by	Date/Time 12/21/18	Company TAIR	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: Temp 1.1/1.3 IR-94

ANALYTICAL REPORT

Job Number: 720-90446-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/8/2019 5:27 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/08/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Method 8015B - DRO Sample Data 3

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TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_026.d
Lims ID: 720-90446-E-1-I
Client ID: DG-AC3S-0.5-1
Sample Type: Client
Inject. Date: 27-Dec-2018 22:38:56 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0055854-026
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Dec-2018 08:49:52 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 28-Dec-2018 08:49:52

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.702	2.686	0.016	1288	NC	
	23 n-Decane	3.904	3.900	0.004	1459	NC	
A	1 C9-C13	4.640	(2.686-6.594)		51342	4.05	M
A	21 Stoddard Solvent	4.640	(2.686-6.594)		51342	4.52	M
A	57 C10-C12	4.847	(3.900-5.795)		22899	2.33	M
	24 Dodecane	5.790	5.795	-0.005	3072	NC	M
A	3 C9 - C17	5.994	(2.686-9.301)		227347	16.1	M
A	47 C9 - C18	6.281	(2.686-9.877)		351781	31.3	M
A	60 C10-C16	6.285	(3.900-8.671)		166663	13.4	M
A	15 Kerosene	6.559	(2.686-10.432)		440559	39.2	M
A	25 C9-C19	6.559	(2.686-10.432)		440559	31.1	M
	26 C13	6.543	6.594	-0.051	6716	NC	M
$	27 n-Decanoic Acid (Surr)		7.222			ND	U
A	59 C12-C16	7.233	(5.795-8.671)		146836	15.0	M
A	62 C10-C20	7.433	(3.900-10.966)		757560	77.2	M
A	28 C9-C24	7.787	(2.686-12.887)		2453820	249.9	M
A	29 C9-C25	8.004	(2.686-13.322)		3068803	312.6	M
A	54 C10-C23	8.168	(3.900-12.436)		1920166	195.6	M
A	4 C10-C24	8.393	(3.900-12.887)		2443723	248.9	M
A	16 C10-C25	8.611	(3.900-13.322)		3058706	311.5	M
	45 Hexadecane	8.667	8.671	-0.004	5145	NC	M
A	14 C10-C26	8.820	(3.900-13.741)		3911178	398.4	M
A	67 C12-C22	8.881	(5.795-11.966)		1600692	163.0	M
A	5 Diesel	9.218	(3.900-14.536)		5317906	541.6	M
A	32 C10-C28	9.218	(3.900-14.536)		5317906	541.6	M
A	12 Unknown Hydrocarbons	9.218	(3.900-14.536)		5317906	NC	M
A	30 C13-C22	9.280	(6.594-11.966)		1585990	161.5	M
	44 Heptadecane	9.317	9.301	0.016	35533	NC	M
A	31 C12-C24	9.341	(5.795-12.887)		2423896	246.9	M
	49 n-Octadecane	9.870	9.877	-0.007	13600	NC	M
A	52 Mineral oil	9.968	(2.686-17.250)		11373776	1046.9	
A	9 Crude Oil Range Organics (	9.968	(2.686-17.250)		11373776	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.968	(2.686-17.250)		14630635	NC	M
33 C19	10.433	10.432	0.001	76884	NC	M
A 64 C13-C28	10.565	(6.594-14.536)		5283377	538.1	M
A 17 C10-C36	10.575	(3.900-17.250)		14620538	1489.1	M
A 13 C9-C40	10.748	(2.686-18.810)		13272645	1312.8	
A 68 Crude Oil Range Organics (	10.748	(2.686-18.810)		13272645	NC	
A 58 C16-C24	10.779	(8.671-12.887)		2282205	232.4	M
61 icosane	10.967	10.966	0.001	70276	NC	M
A 6 C10-C40	11.355	(3.900-18.810)		13260342	1313.2	
$ 34 p-Terphenyl	11.937	11.935	0.002	268231	21.3	
35 n-Docosane		11.966			ND	
A 18 C12-C40	12.303	(5.795-18.810)		13217795	1313.1	
36 Tricosane	12.443	12.436	0.007	192620	NC	M
A 66 C13-C40	12.702	(6.594-18.810)		12714517	1281.9	
37 n-Tetracosane	12.890	12.887	0.003	207232	NC	M
A 2 C16-C36 ORO	12.961	(8.671-17.250)		9137798	1238.4	
38 C25	13.330	13.322	0.008	228879	NC	M
46 n-Hexacosane	13.737	13.741	-0.004	231587	NC	M
A 19 C16-C40	13.741	(8.671-18.810)		13001392	1298.9	
A 20 C19-C36	13.841	(10.432-17.250)		8671709	1112.1	
A 55 C23-C32	14.206	(12.436-15.976)		6322306	1467.8	
39 n-Octacosane	14.467	14.536	-0.069	341171	NC	M
65 C29	14.937	14.913	0.024	509178	NC	M
A 40 C24-C36	15.069	(12.887-17.250)		8268763	1319.5	M
A 7 Motor Oil	15.069	(12.887-17.250)		8059163	1286.0	
A 50 C25-C36	15.286	(13.322-17.250)		7500237	1265.5	
A 10 C22-C40	15.388	(11.966-18.810)		10465304	1180.7	
A 41 C23-C40	15.623	(12.436-18.810)		10284505	1188.1	
A 8 C24-C40	15.849	(12.887-18.810)		9787212	1169.6	
56 Dotriacontane	15.930	15.976	-0.046	390919	NC	M
A 51 C28-C40	16.673	(14.536-18.810)		7142872	1073.6	
A 63 C29-C40	16.862	(14.913-18.810)		6311737	1035.3	
42 n-Hexatriacontane	17.210	17.250	-0.040	3897717	NC	M
43 C40		18.810			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

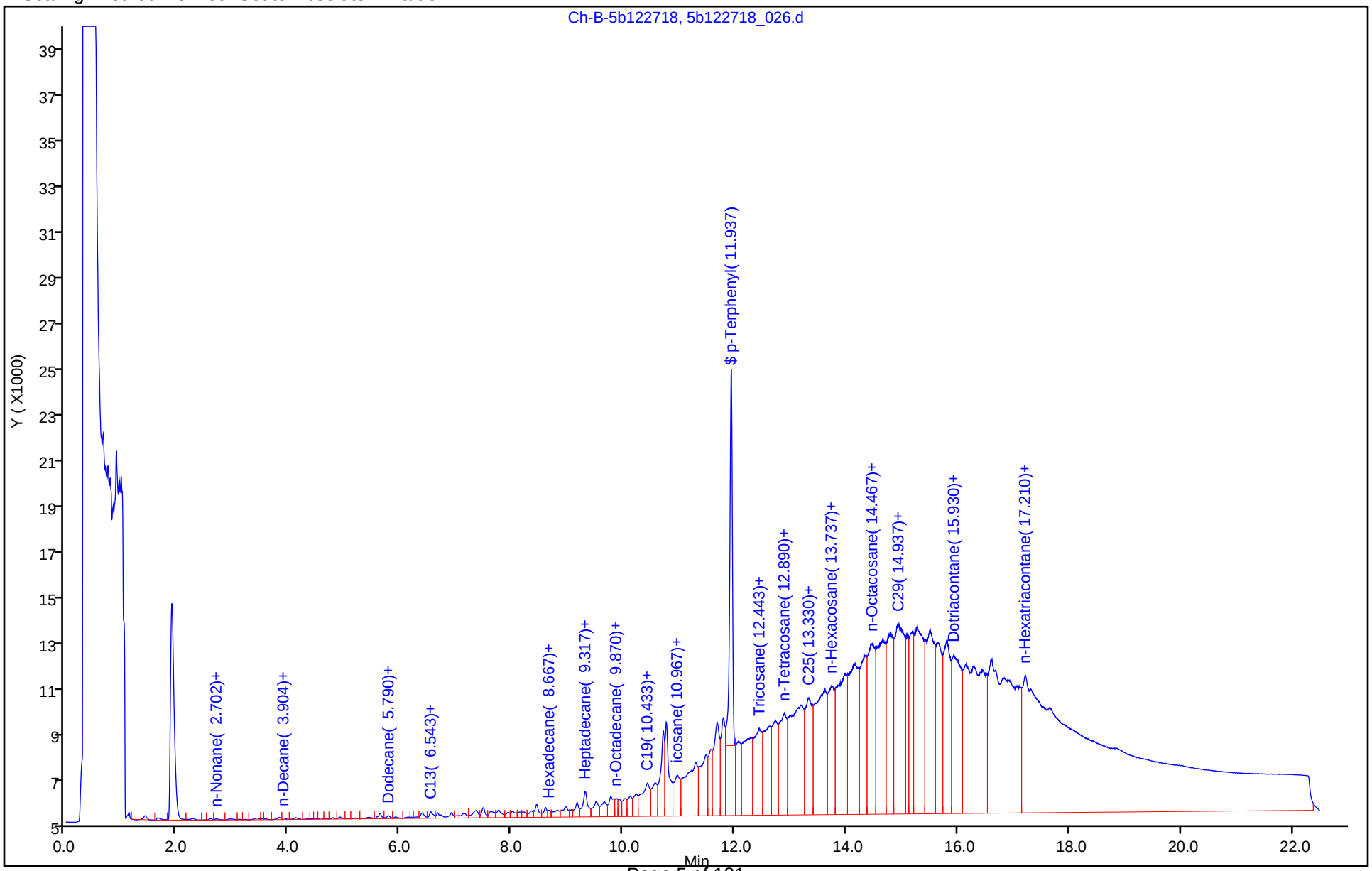
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TestAmerica Pleasanton

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Injection Date:	27-Dec-2018 22:38:56	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-1-I	Lab Sample ID:	720-90446-1	Worklist Smp#:	26
Client ID:	DG-AC3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_026.d				
Lims ID:	720-90446-E-1-I				
Client ID:	DG-AC3S-0.5-1				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 22:38:56	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0055854-026				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 08:49:52	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_003.d				
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Process Host:	CTX0332				

First Level Reviewer: hayashid Date: 28-Dec-2018 08:49:52

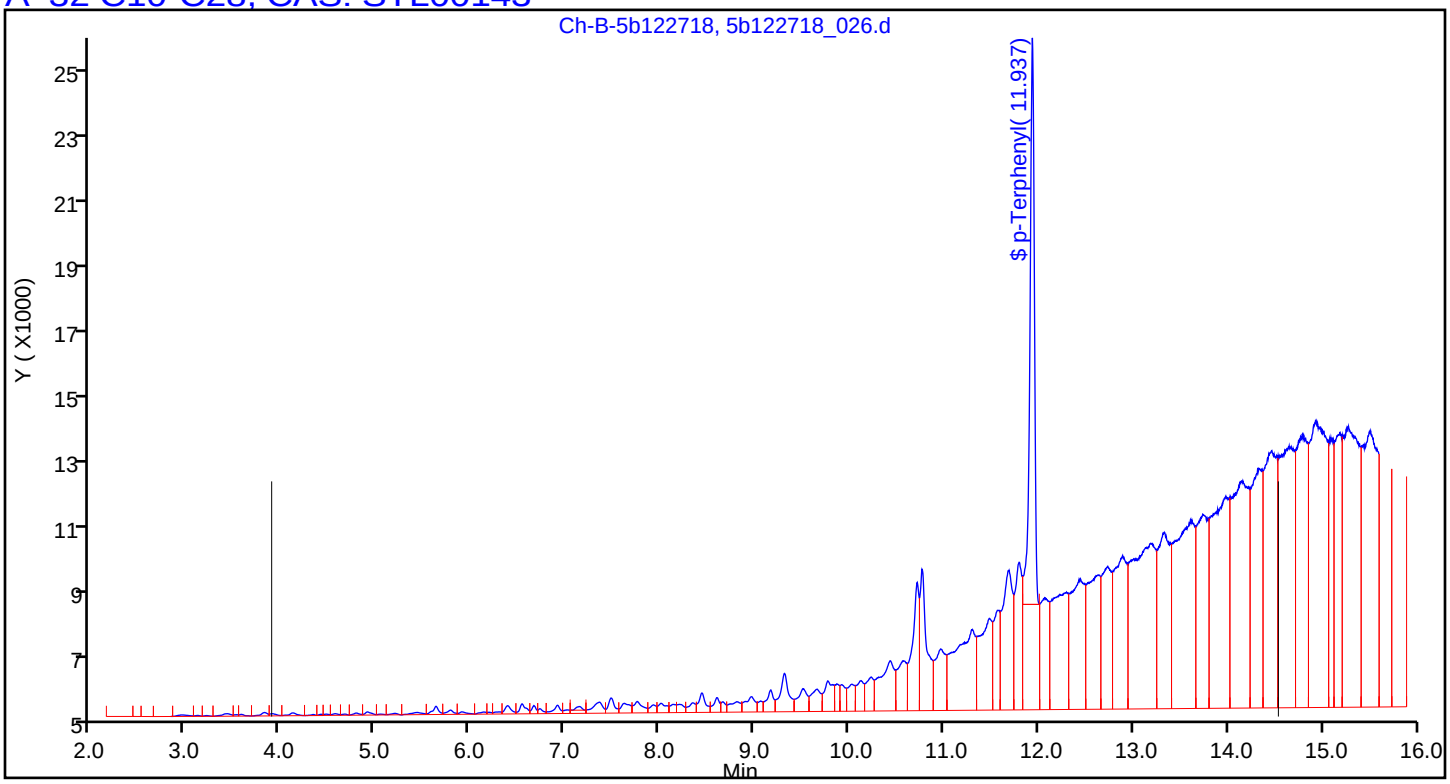
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	21.3	85.20

Report Date: 28-Dec-2018 08:49:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_026.d				
Injection Date:	27-Dec-2018 22:38:56	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-1-I	Lab Sample ID:	720-90446-1		
Client ID:	DG-AC3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

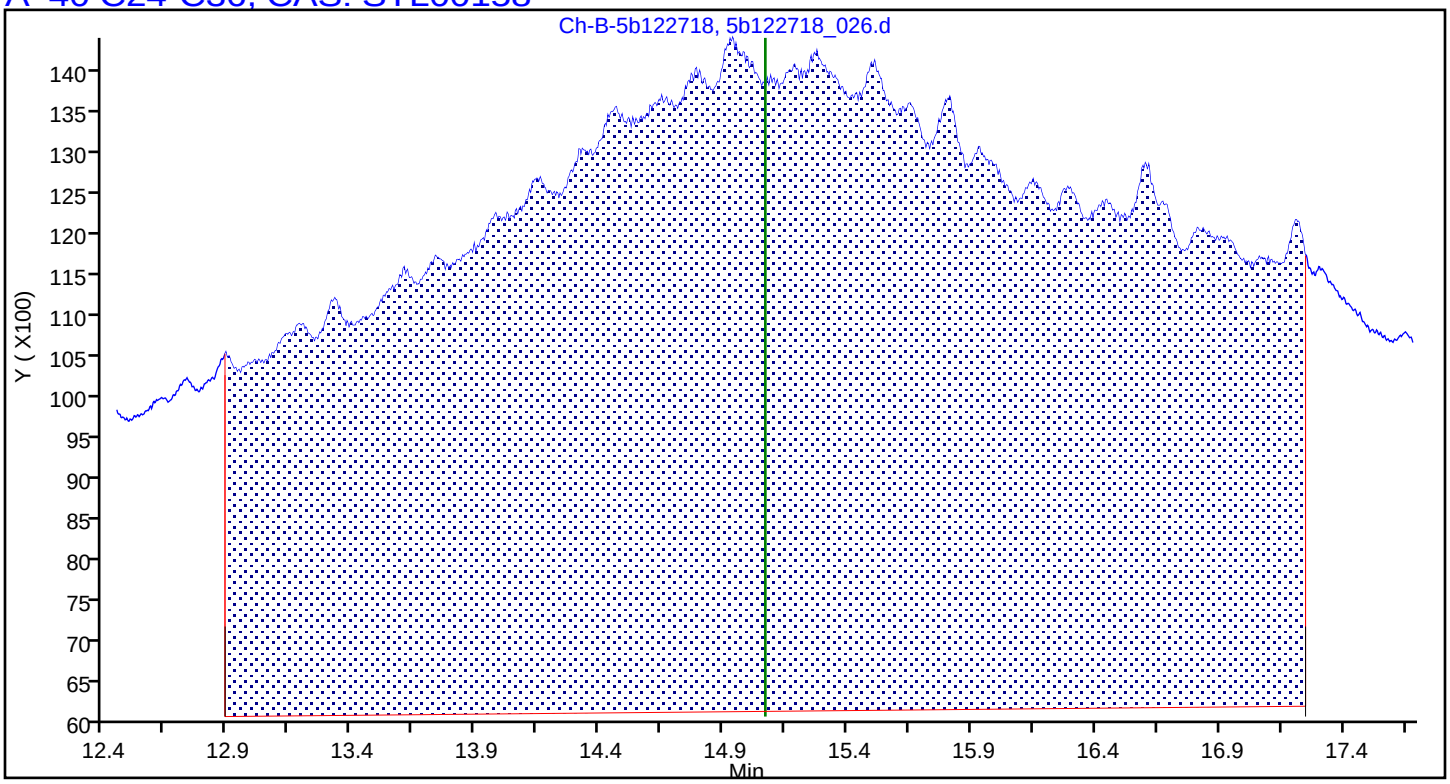


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TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_026.d				
Injection Date:	27-Dec-2018 22:38:56	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-1-I	Lab Sample ID:	720-90446-1		
Client ID:	DG-AC3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

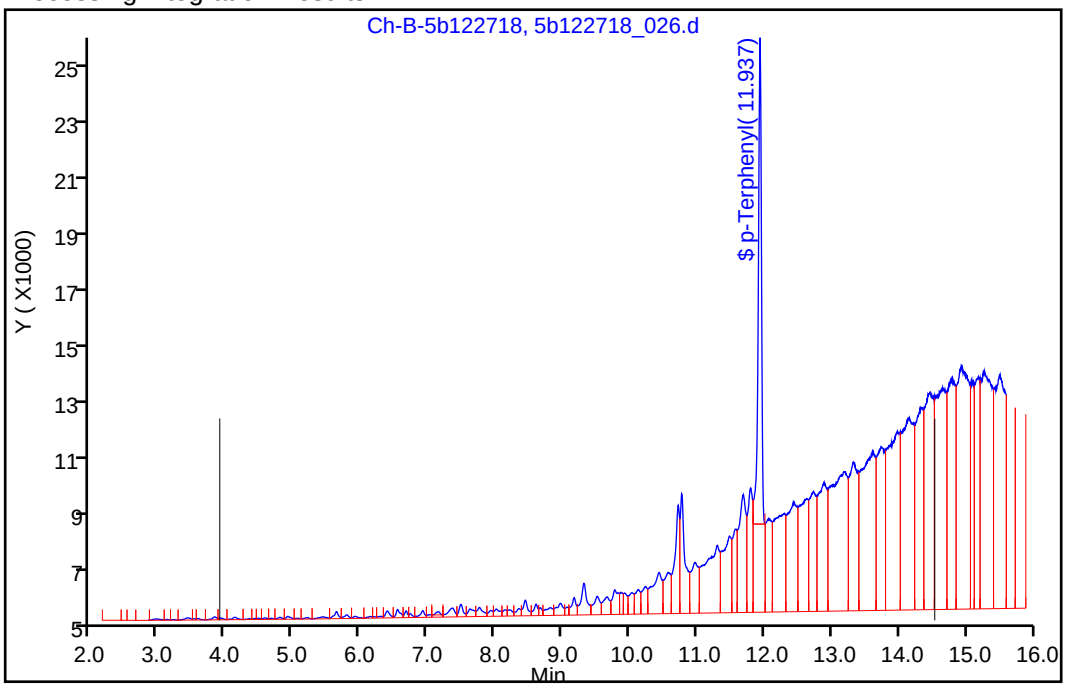
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Lims ID:	720-90446-E-1-I	Lab Sample ID:	720-90446-1		
Client ID:	DG-AC3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.218, CAS: STL00143

Signal: 1

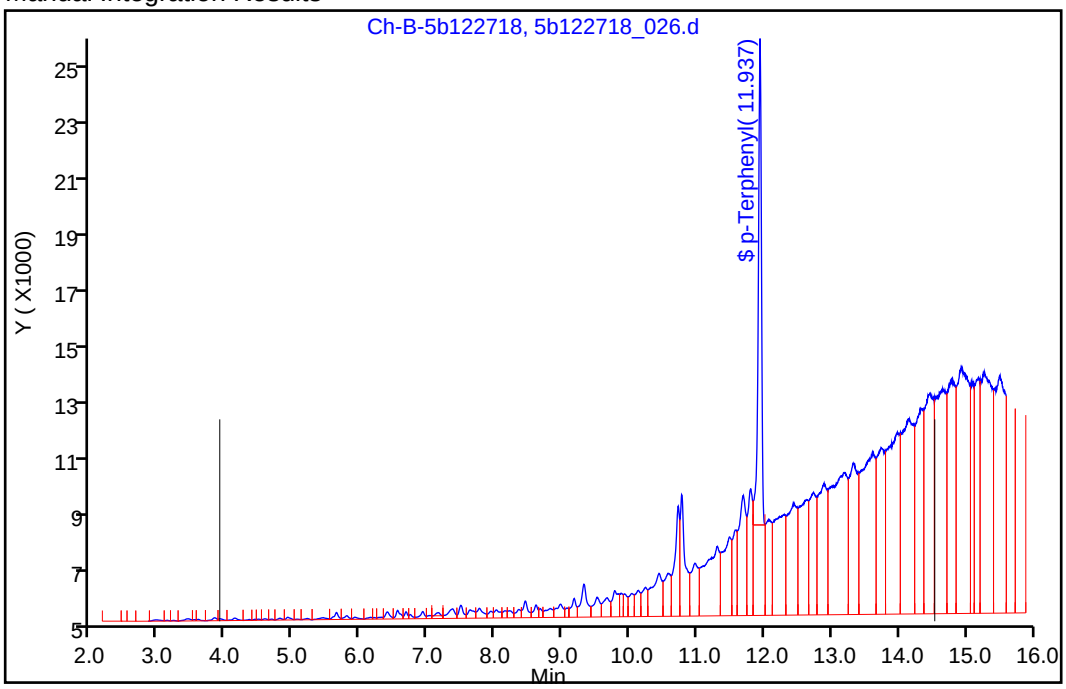
Processing Integration Results

RT: 9.22
Response: 5073363
Amount: 516.7296



Manual Integration Results

RT: 9.22
Response: 5317906
Amount: 541.6367



Reviewer: hayashid, 28-Dec-2018 08:49:36

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

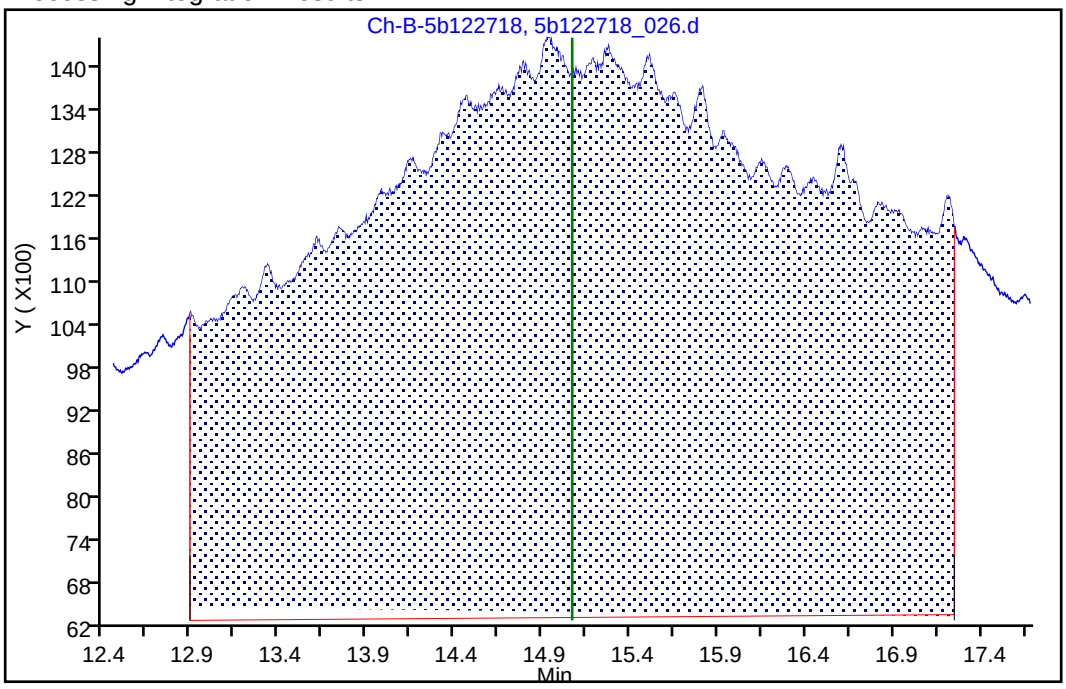
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Injection Date:	27-Dec-2018 22:38:56	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-1-I	Lab Sample ID:	720-90446-1		
Client ID:	DG-AC3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.069, CAS: STL00158

Signal: 1

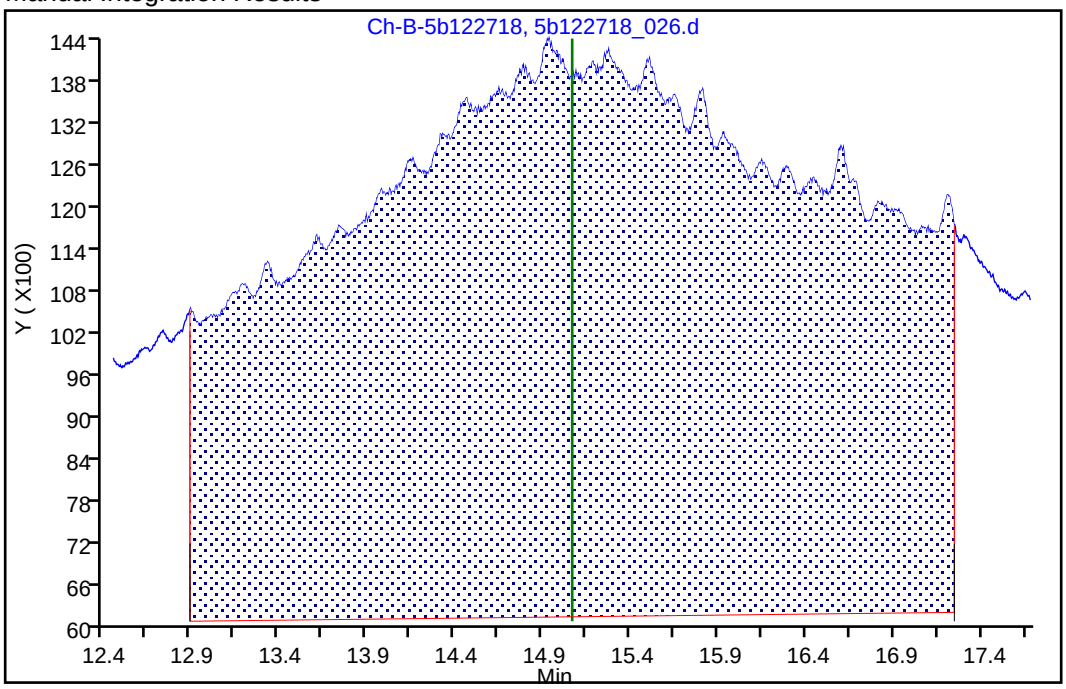
Processing Integration Results

RT: 15.07
Response: 8059163
Amount: 1286.0313



Manual Integration Results

RT: 15.07
Response: 8268763
Amount: 1319.4780



Reviewer: hayashid, 28-Dec-2018 08:49:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_016.d
Lims ID: 720-90446-E-2-D
Client ID: DG-AC3S-3.5-4
Sample Type: Client
Inject. Date: 27-Dec-2018 17:48:09 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 105 Name: 720-0055854-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Dec-2018 08:05:43 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 08:05:43

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.691	2.686	0.005	368	NC	
	23 n-Decane	3.887	3.900	-0.013	697	NC	
A	1 C9-C13	4.640	(2.686-6.594)		13101	1.03	
A	21 Stoddard Solvent	4.640	(2.686-6.594)		13101	1.15	
A	57 C10-C12	4.847	(3.900-5.795)		6811	0.6937	
	24 Dodecane	5.783	5.795	-0.012	782	NC	
A	3 C9 - C17	5.994	(2.686-9.301)		29141	2.06	
A	47 C9 - C18	6.281	(2.686-9.877)		41575	3.70	
A	60 C10-C16	6.285	(3.900-8.671)		23232	1.86	
A	15 Kerosene	6.559	(2.686-10.432)		49938	4.44	
A	25 C9-C19	6.559	(2.686-10.432)		49938	3.53	
	26 C13	6.581	6.594	-0.013	1203	NC	
$	27 n-Decanoic Acid (Surr)		7.222			ND	U
A	59 C12-C16	7.233	(5.795-8.671)		17203	1.75	
A	62 C10-C20	7.433	(3.900-10.966)		90129	9.18	
A	28 C9-C24	7.787	(2.686-12.887)		168190	17.1	
A	29 C9-C25	8.004	(2.686-13.322)		196989	20.1	
A	54 C10-C23	8.168	(3.900-12.436)		146377	14.9	
A	4 C10-C24	8.393	(3.900-12.887)		165112	16.8	
A	16 C10-C25	8.611	(3.900-13.322)		193911	19.8	
	45 Hexadecane	8.659	8.671	-0.012	1288	NC	
A	14 C10-C26	8.820	(3.900-13.741)		216786	22.1	
A	67 C12-C22	8.881	(5.795-11.966)		112590	11.5	
A	5 Diesel	9.218	(3.900-14.536)		295295	30.1	
A	32 C10-C28	9.218	(3.900-14.536)		295295	30.1	
A	12 Unknown Hydrocarbons	9.218	(3.900-14.536)		295295	NC	
A	30 C13-C22	9.280	(6.594-11.966)		109799	11.2	
	44 Heptadecane	9.305	9.301	0.004	2771	NC	
A	31 C12-C24	9.341	(5.795-12.887)		159083	16.2	
	49 n-Octadecane	9.865	9.877	-0.012	2548	NC	
A	52 Mineral oil	9.968	(2.686-17.250)		1307555	120.4	
A	9 Crude Oil Range Organics (	9.950	(2.686-17.213)		1297340	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.968	(2.686-17.250)		756445	NC	
33 C19	10.427	10.432	-0.005	3209	NC	
A 64 C13-C28	10.565	(6.594-14.536)		286475	29.2	
A 17 C10-C36	10.622	(4.030-17.213)		752670	76.7	
A 13 C9-C40	10.748	(2.686-18.810)		1728836	171.0	
A 68 Crude Oil Range Organics (	10.748	(2.686-18.810)		1728836	NC	
A 58 C16-C24	10.779	(8.671-12.887)		143168	14.6	
61 icosane	10.959	10.966	-0.007	3686	NC	
A 6 C10-C40	11.355	(3.900-18.810)		1723632	170.7	
$ 34 p-Terphenyl	11.933	11.935	-0.002	313154	24.9	
35 n-Docosane		11.966			ND	
A 18 C12-C40	12.303	(5.795-18.810)		1705988	169.5	
36 Tricosane	12.429	12.436	-0.007	6814	NC	
A 66 C13-C40	12.702	(6.594-18.810)		1513889	152.6	
37 n-Tetracosane	12.878	12.887	-0.009	8314	NC	
A 2 C16-C36 ORO	12.961	(8.671-17.250)		951269	128.9	
38 C25	13.316	13.322	-0.006	11121	NC	
46 n-Hexacosane	13.734	13.741	-0.007	8685	NC	
A 19 C16-C40	13.741	(8.671-18.810)		1641638	164.0	
A 20 C19-C36	13.841	(10.432-17.250)		656007	84.1	
A 55 C23-C32	14.206	(12.436-15.976)		428727	99.5	
39 n-Octacosane	14.452	14.536	-0.084	27471	NC	
65 C29	14.907	14.913	-0.006	44815	NC	
A 40 C24-C36	15.069	(12.887-17.250)		684994	109.3	
A 7 Motor Oil	15.069	(12.887-17.250)		684994	109.3	
A 50 C25-C36	15.286	(13.322-17.250)		656759	110.8	
A 10 C22-C40	15.388	(11.966-18.810)		760645	85.8	
A 41 C23-C40	15.623	(12.436-18.810)		1045442	120.8	
A 8 C24-C40	15.849	(12.887-18.810)		1025311	122.5	
56 Dotriacontane	15.974	15.976	-0.002	26048	NC	
A 51 C28-C40	16.673	(14.536-18.810)		879429	132.2	
A 63 C29-C40	16.862	(14.913-18.810)		820760	134.6	
42 n-Hexatriacontane		17.250			ND	
43 C40		18.810			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

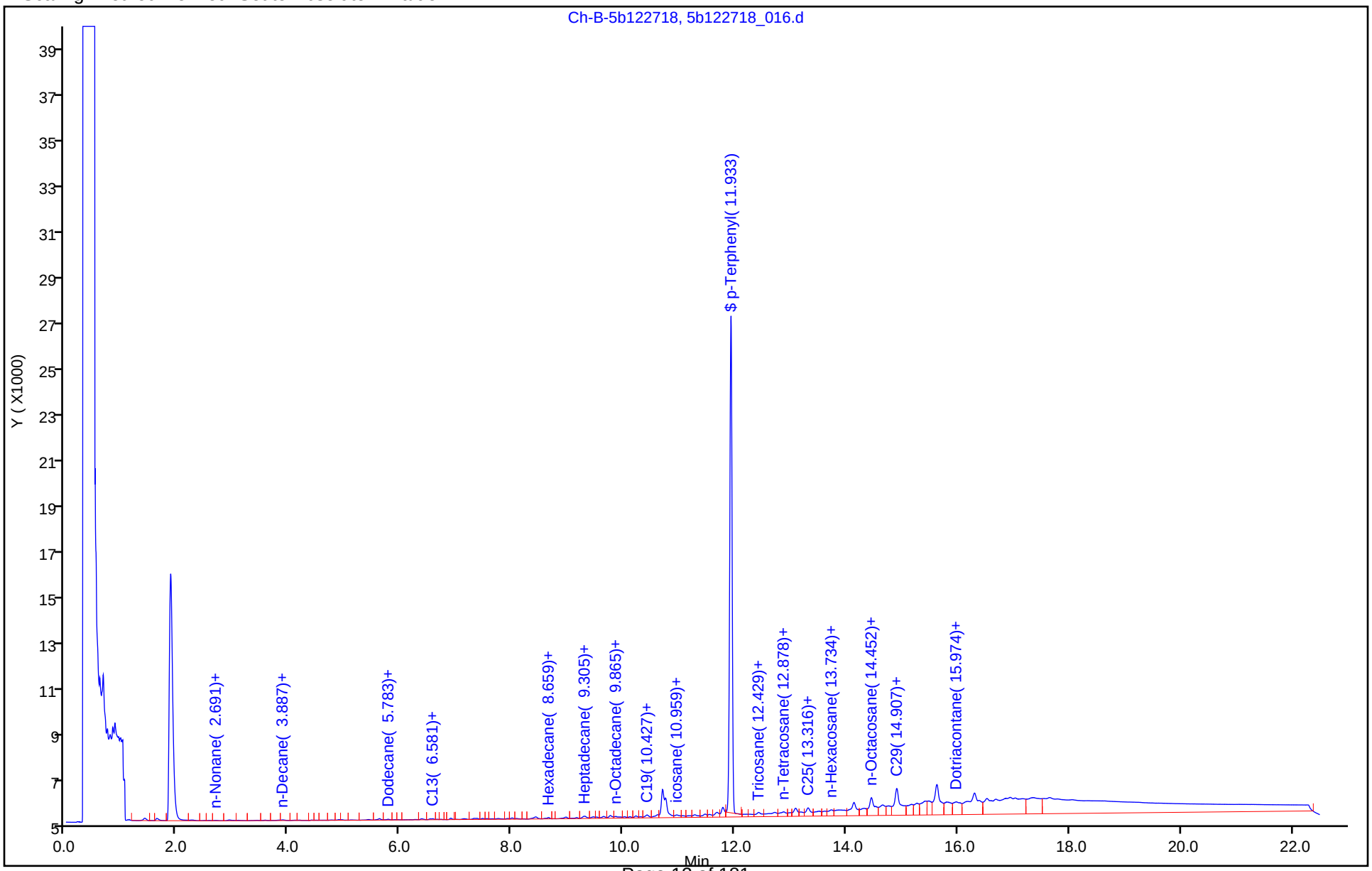
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_016.d

Injection Date:	27-Dec-2018 17:48:09	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-2-D	Lab Sample ID:	720-90446-2	Worklist Smp#:	16
Client ID:	DG-AC3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_016.d
Lims ID: 720-90446-E-2-D
Client ID: DG-AC3S-3.5-4
Sample Type: Client
Inject. Date: 27-Dec-2018 17:48:09 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 105 Name: 720-0055854-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Dec-2018 08:05:43 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 08:05:43

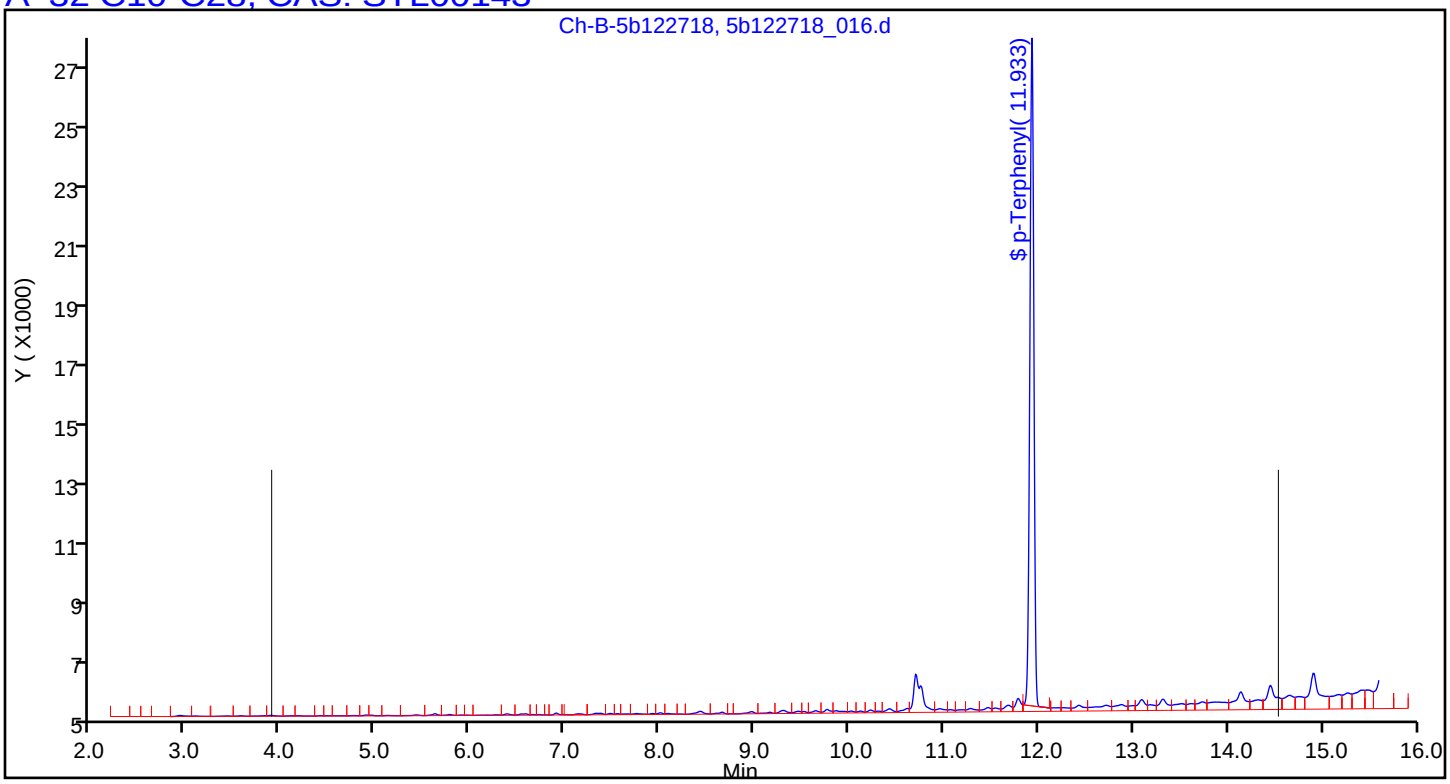
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.9	99.47

Report Date: 28-Dec-2018 08:05:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_016.d				
Injection Date:	27-Dec-2018 17:48:09	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-2-D	Lab Sample ID:	720-90446-2		
Client ID:	DG-AC3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

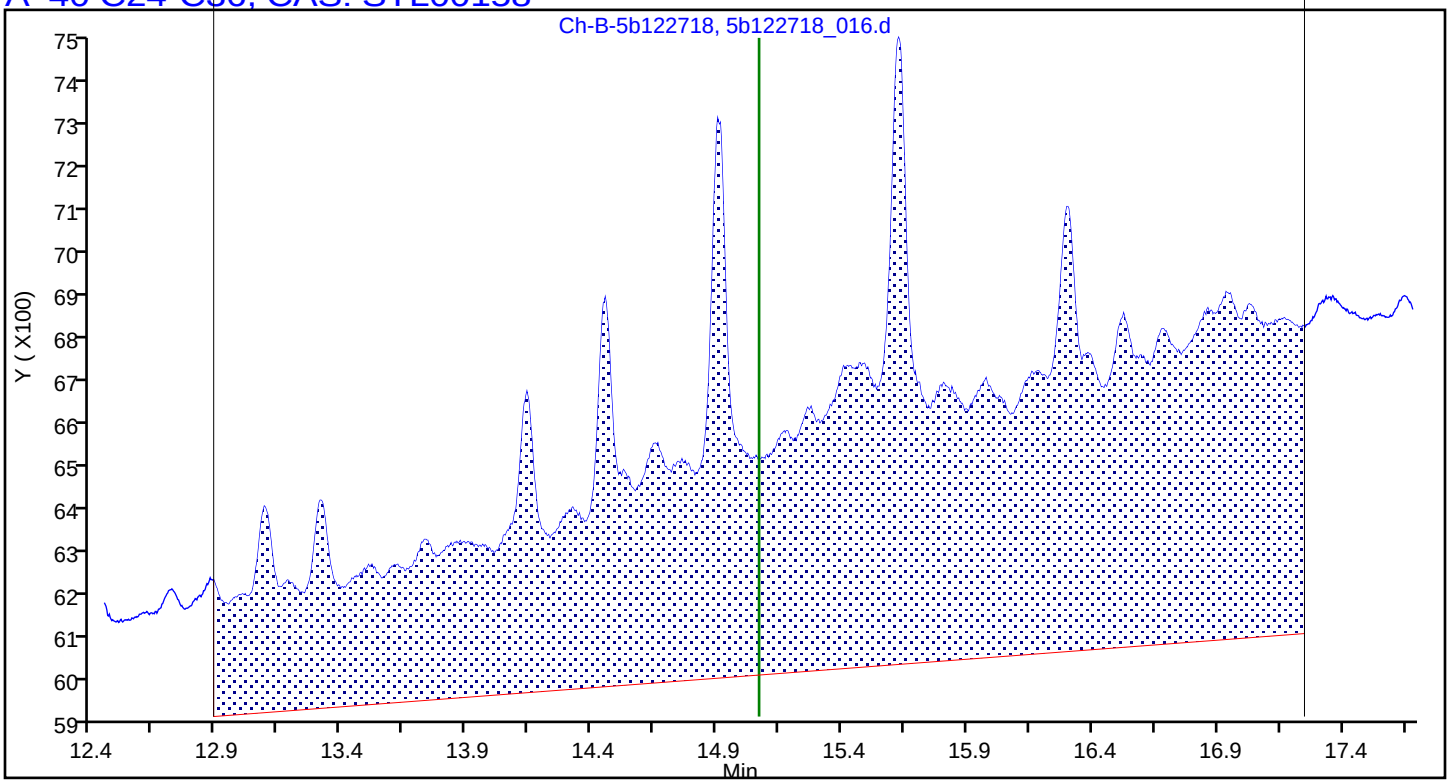


Report Date: 28-Dec-2018 08:05:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_016.d				
Injection Date:	27-Dec-2018 17:48:09	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-2-D	Lab Sample ID:	720-90446-2		
Client ID:	DG-AC3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_017.d
Lims ID: 720-90446-E-3-D
Client ID: DG-AE3S-0.5-1
Sample Type: Client
Inject. Date: 27-Dec-2018 18:17:08 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0055854-017
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Dec-2018 08:44:38 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 28-Dec-2018 08:44:47

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.728	2.686	0.042	258	NC	
	23 n-Decane		3.900			ND	
A	1 C9-C13	4.640	(2.686-6.594)		9163	0.7234	
A	21 Stoddard Solvent	4.640	(2.686-6.594)		9163	0.8060	
A	57 C10-C12	4.847	(3.900-5.795)		5306	0.5404	
	24 Dodecane	5.851	5.795	0.056	108	NC	
A	3 C9 - C17	5.994	(2.686-9.301)		20842	1.48	
A	47 C9 - C18	6.281	(2.686-9.877)		25115	2.24	
A	60 C10-C16	6.285	(3.900-8.671)		17471	1.40	
A	15 Kerosene	6.559	(2.686-10.432)		28470	2.53	M
A	25 C9-C19	6.559	(2.686-10.432)		28470	2.01	M
	26 C13	6.555	6.594	-0.039	293	NC	
$	27 n-Decanoic Acid (Surr)		7.222			ND	U
A	59 C12-C16	7.233	(5.795-8.671)		13191	1.34	
A	62 C10-C20	7.433	(3.900-10.966)		82549	8.41	M
A	28 C9-C24	7.787	(2.686-12.887)		138840	14.1	M
A	29 C9-C25	8.004	(2.686-13.322)		153138	15.6	M
A	54 C10-C23	8.168	(3.900-12.436)		129536	13.2	M
A	4 C10-C24	8.393	(3.900-12.887)		136892	13.9	M
A	16 C10-C25	8.611	(3.900-13.322)		151190	15.4	M
	45 Hexadecane	8.658	8.671	-0.013	754	NC	
A	14 C10-C26	8.820	(3.900-13.741)		165464	16.9	M
A	67 C12-C22	8.881	(5.795-11.966)		120843	12.3	M
A	5 Diesel	9.218	(3.900-14.536)		223414	22.8	M
A	32 C10-C28	9.218	(3.900-14.536)		223414	22.8	M
A	12 Unknown Hydrocarbons	9.218	(3.900-14.536)		223414	NC	M
A	30 C13-C22	9.280	(6.594-11.966)		118201	12.0	M
	44 Heptadecane	9.307	9.301	0.006	495	NC	
A	31 C12-C24	9.341	(5.795-12.887)		132612	13.5	M
	49 n-Octadecane	9.924	9.877	0.047	339	NC	
A	52 Mineral oil	9.968	(2.686-17.250)		1059727	97.5	
A	9 Crude Oil Range Organics (	9.968	(2.686-17.250)		1059727	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.968	(2.686-17.250)		744391	NC	M
33 C19	10.437	10.432	0.005	421	NC	M
A 64 C13-C28	10.565	(6.594-14.536)		216492	22.1	M
A 17 C10-C36	10.635	(4.020-17.250)		741379	75.5	M
A 13 C9-C40	10.748	(2.686-18.810)		1494186	147.8	
A 68 Crude Oil Range Organics (	10.748	(2.686-18.810)		1494186	NC	
A 58 C16-C24	10.779	(8.671-12.887)		120175	12.2	M
61 icosane	11.007	10.966	0.041	3055	NC	M
A 6 C10-C40	11.355	(3.900-18.810)		1491296	147.7	
$ 34 p-Terphenyl	11.937	11.935	0.002	312862	24.8	
35 n-Docosane		11.966			ND	
A 18 C12-C40	12.303	(5.795-18.810)		1483628	147.4	
36 Tricosane	12.440	12.436	0.004	2060	NC	M
A 66 C13-C40	12.702	(6.594-18.810)		1423438	143.5	
37 n-Tetracosane	12.890	12.887	0.003	2621	NC	M
A 2 C16-C36 ORO	12.961	(8.671-17.250)		876826	118.8	
38 C25	13.317	13.322	-0.005	4052	NC	M
46 n-Hexacosane	13.733	13.741	-0.008	3708	NC	M
A 19 C16-C40	13.741	(8.671-18.810)		1454198	145.3	
A 20 C19-C36	13.841	(10.432-17.250)		638596	81.9	
A 55 C23-C32	14.206	(12.436-15.976)		291619	67.7	
39 n-Octacosane	14.533	14.536	-0.003	10762	NC	M
65 C29	14.910	14.913	-0.003	27365	NC	M
A 40 C24-C36	15.069	(12.887-17.250)		597784	95.4	
A 7 Motor Oil	15.069	(12.887-17.250)		597784	95.4	
A 50 C25-C36	15.286	(13.322-17.250)		586730	99.0	
A 10 C22-C40	15.388	(11.966-18.810)		680334	76.8	
A 41 C23-C40	15.623	(12.436-18.810)		970330	112.1	
A 8 C24-C40	15.849	(12.887-18.810)		963447	115.1	
56 Dotriacontane		15.976			ND	
A 51 C28-C40	16.673	(14.536-18.810)		874365	131.4	
A 63 C29-C40	16.862	(14.913-18.810)		830309	136.2	
42 n-Hexatriacontane	17.213	17.250	-0.037	138383	NC	M
43 C40		18.810			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

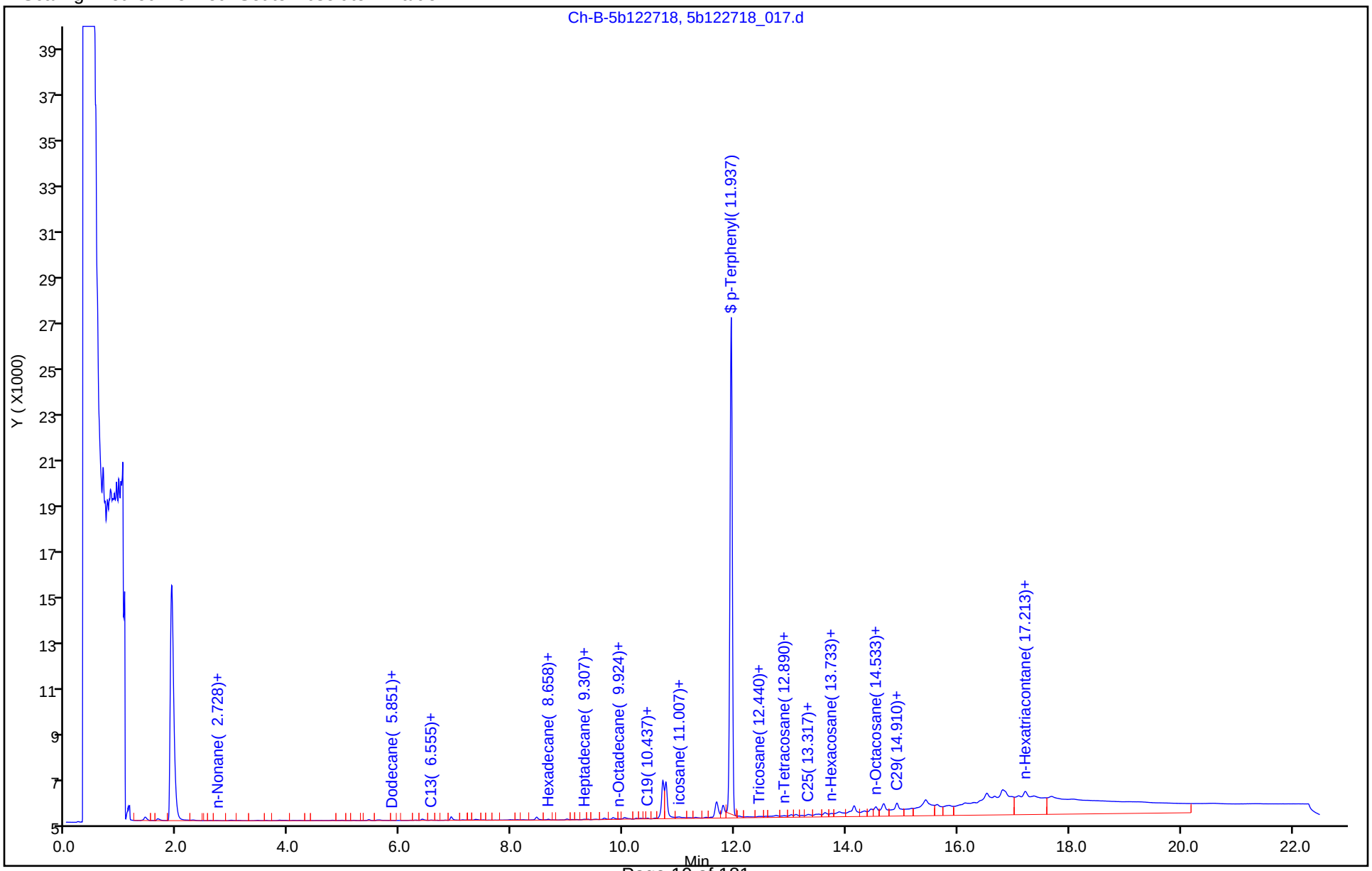
Report Date: 28-Dec-2018 08:44:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_017.d

Injection Date:	27-Dec-2018 18:17:08	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-3-D	Lab Sample ID:	720-90446-3	Worklist Smp#:	17
Client ID:	DG-AE3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_017.d				
Lims ID:	720-90446-E-3-D				
Client ID:	DG-AE3S-0.5-1				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 18:17:08	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0055854-017				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 08:44:38	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0332				
First Level Reviewer: hayashid		Date:	28-Dec-2018 08:44:47		

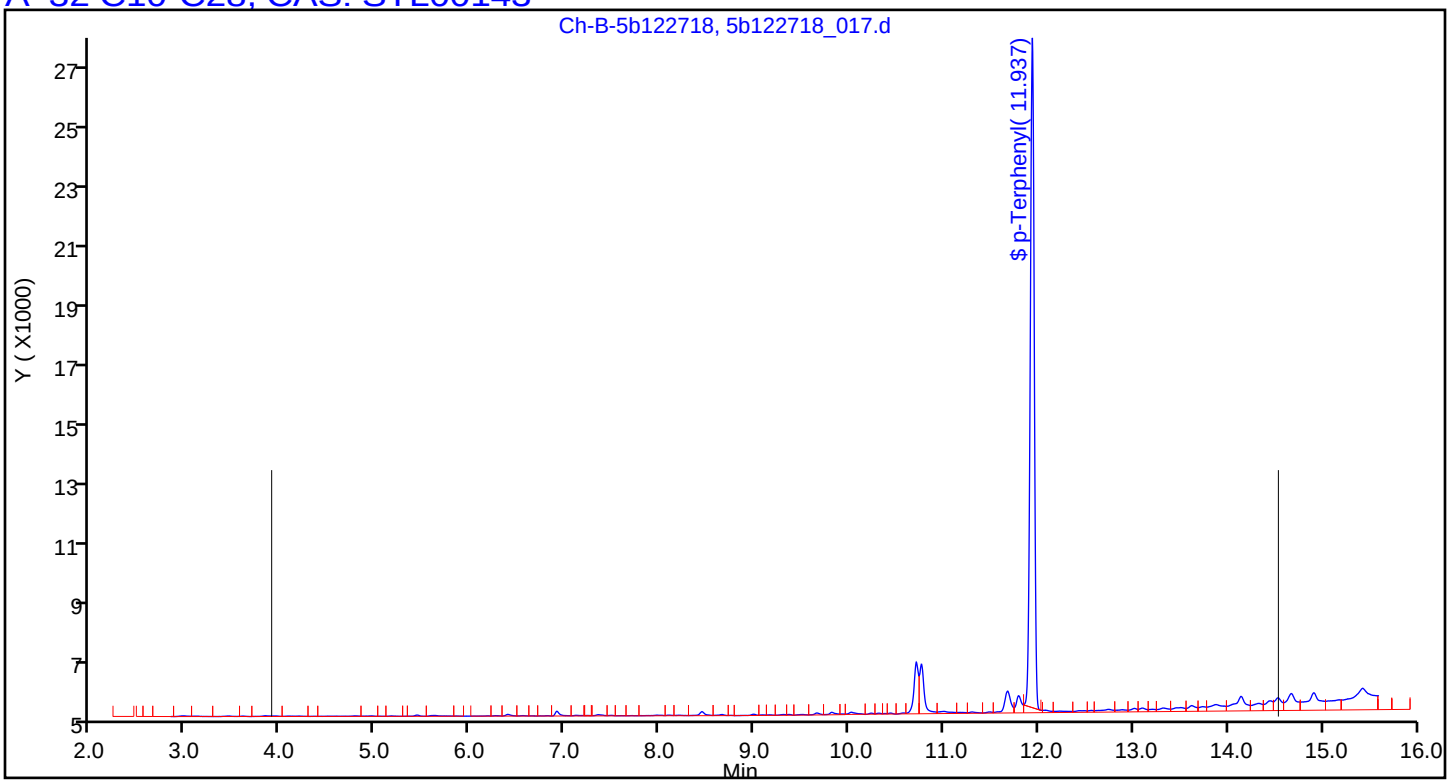
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.8	99.38

Report Date: 28-Dec-2018 08:44:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_017.d				
Injection Date:	27-Dec-2018 18:17:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-3-D	Lab Sample ID:	720-90446-3		
Client ID:	DG-AE3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

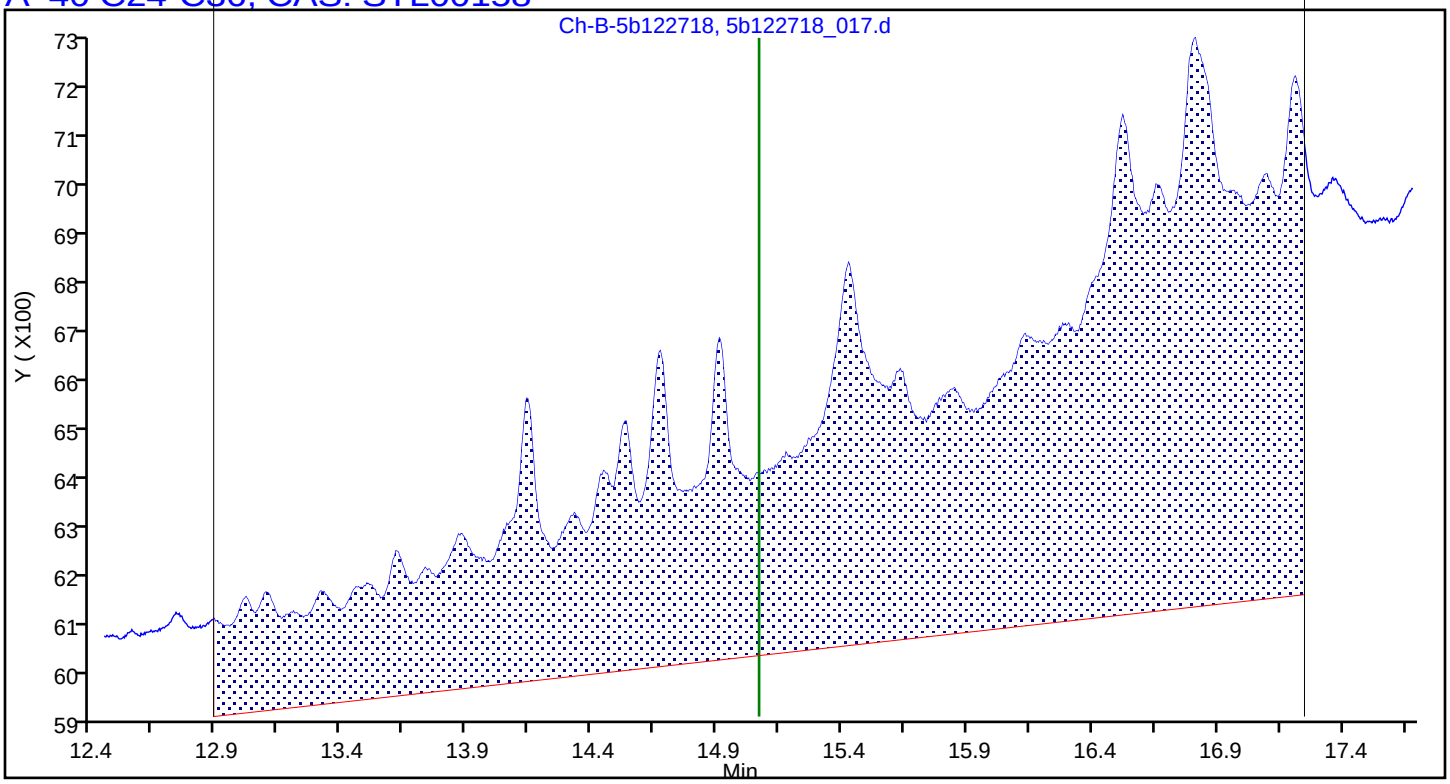


Report Date: 28-Dec-2018 08:44:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_017.d				
Injection Date:	27-Dec-2018 18:17:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-3-D	Lab Sample ID:	720-90446-3		
Client ID:	DG-AE3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

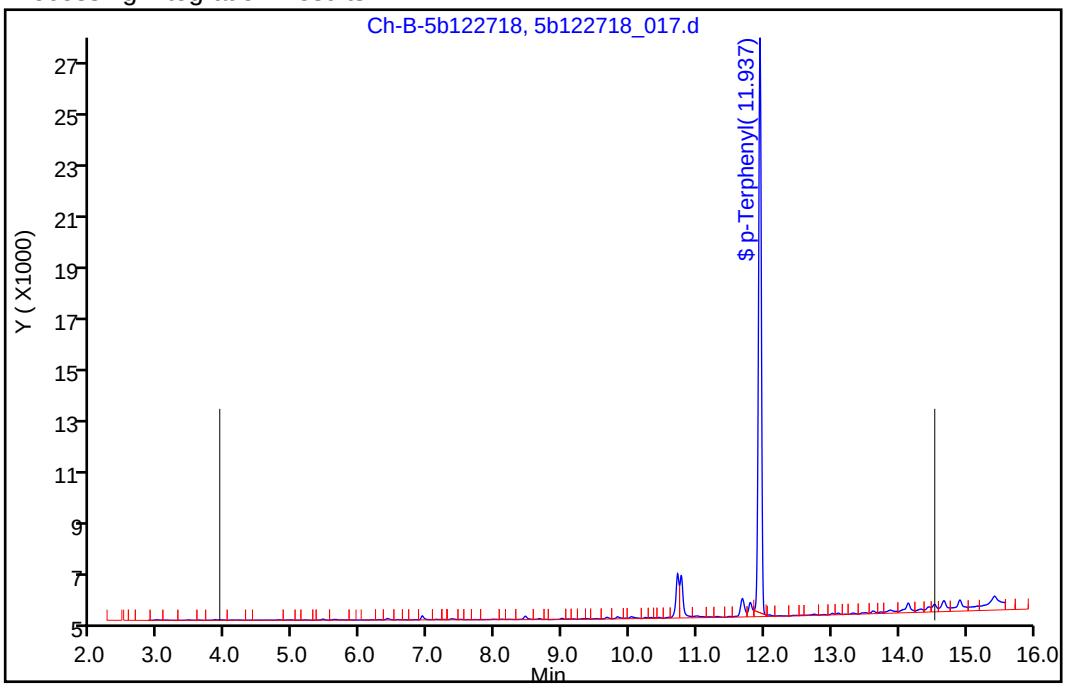
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_017.d				
Injection Date:	27-Dec-2018 18:17:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-3-D	Lab Sample ID:	720-90446-3		
Client ID:	DG-AE3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.218, CAS: STL00143

Signal: 1

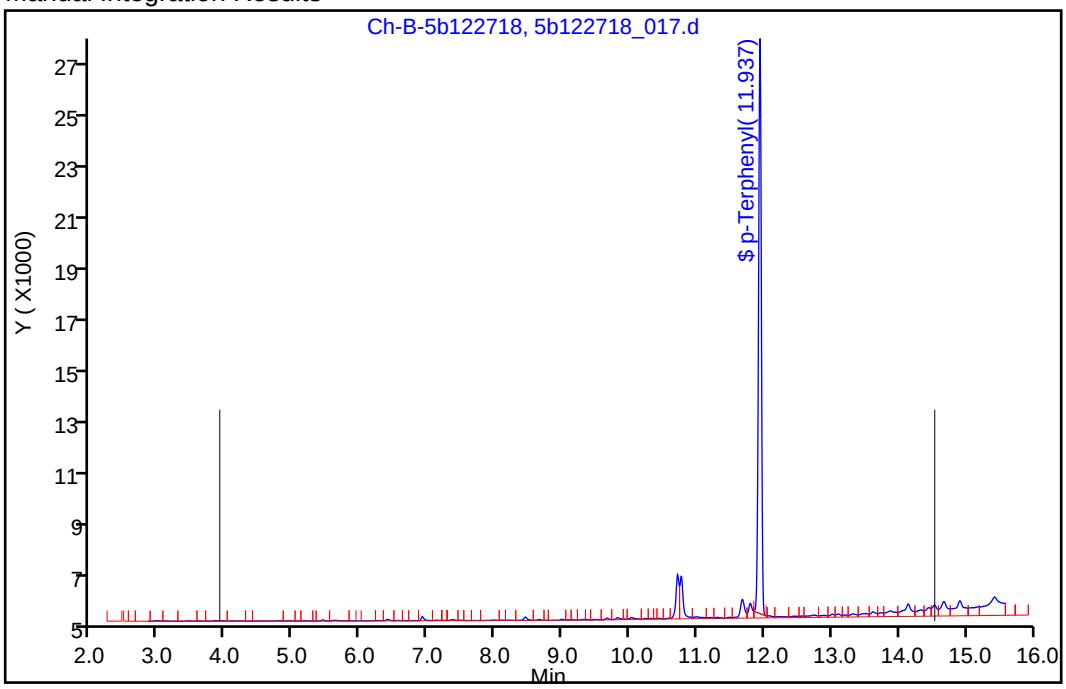
Processing Integration Results

RT: 9.22
Response: 163936
Amount: 16.697127



Manual Integration Results

RT: 9.22
Response: 223414
Amount: 22.755051



Reviewer: hayashid, 28-Dec-2018 08:44:29

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000008.D
Lims ID: 720-90446-E-4-D
Client ID: DG-AE3S-3.5-4
Sample Type: Client
Inject. Date: 28-Dec-2018 12:59:23 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055876-008
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 13:45:27 Calib Date: 28-Dec-2018 10:37:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0322

First Level Reviewer: hayashid Date: 28-Dec-2018 13:45:27

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.281	1.210	0.071	12498	NC	
	23 n-Decane	2.102	2.086	0.016	173217	NC	
A	21 Stoddard Solvent	2.698	(1.210-4.185)		2488656	1.88	
A	1 C9-C13	2.698	(1.210-4.185)		2488656	NC	
A	57 C10-C12	2.826	(2.086-3.565)		1293513	1.01	
	24 Dodecane	3.580	3.565	0.015	119246	NC	
A	3 C9 - C17	3.735	(1.210-6.260)		17759908	11.6	
A	60 C10-C16	3.935	(2.086-5.784)		11831137	8.61	
A	47 C9 - C18	3.960	(1.210-6.710)		24934369	20.9	
A	25 C9-C19	4.174	(1.210-7.139)		38113076	24.9	
A	15 Kerosene	4.174	(1.210-7.139)		38113076	31.8	
	26 C13	4.200	4.185	0.015	179304	NC	
$	27 n-Decanoic Acid (Surr)		4.548			ND	U
A	59 C12-C16	4.675	(3.565-5.784)		10537624	8.26	
A	62 C10-C20	4.818	(2.086-7.549)		54680605	42.9	
A	28 C9-C24	5.121	(1.210-9.032)		125046417	98.0	
A	29 C9-C25	5.289	(1.210-9.369)		141117545	110.6	
A	54 C10-C23	5.385	(2.086-8.683)		100774506	79.0	
A	4 C10-C24	5.559	(2.086-9.032)		124744532	97.8	
A	16 C10-C25	5.727	(2.086-9.369)		140815660	110.4	
	45 Hexadecane	5.788	5.784	0.004	1017930	NC	
A	14 C10-C26	5.890	(2.086-9.694)		166723484	130.7	
A	67 C12-C22	5.943	(3.565-8.320)		82803019	64.9	
A	5 Diesel	6.198	(2.086-10.311)		230278170	180.5	
A	12 Unknown Hydrocarbons	6.198	(2.086-10.311)		230278170	NC	
A	32 C10-C28	6.198	(2.086-10.311)		230278170	180.5	
A	30 C13-C22	6.252	(4.185-8.320)		81909761	64.2	
	44 Heptadecane	6.302	6.260	0.042	4218462	NC	
A	31 C12-C24	6.299	(3.565-9.032)		123451019	96.8	
	51 n-Octadecane	6.712	6.710	0.002	1916986	NC	
A	52 Mineral oil	6.820	(1.210-12.430)		541521462	NC	
A	11 Bunker Range Organics (C9-	6.820	(1.210-12.430)		541521462	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.820	(1.210-12.430)		541521462	NC	
33 C19	7.138	7.139	0.000	3999646	NC	
A 64 C13-C28	7.248	(4.185-10.311)		228091399	178.8	
A 17 C10-C36	7.258	(2.086-12.430)		541219577	424.3	
A 13 C9-C40	7.313	(1.210-13.416)		691886126	623.8	
A 68 Crude Oil Range Organics (	7.313	(1.210-13.416)		691886126	NC	
A 58 C16-C24	7.408	(5.784-9.032)		112913395	88.5	
61 icosane	7.549	7.549	0.000	3882960	NC	
A 6 C10-C40	7.751	(2.086-13.416)		691584241	624.7	
$ 34 p-Terphenyl	8.005	8.009	-0.004	37580598	26.2	
35 n-Docosane	8.322	8.320	0.002	5355349	NC	
A 18 C12-C40	8.490	(3.565-13.416)		690290728	642.3	
36 Tricosane	8.686	8.683	0.003	12014705	NC	
A 66 C13-C40	8.800	(4.185-13.416)		689397470	651.1	
37 n-Tetracosane	9.035	9.032	0.003	9043219	NC	
A 2 C16-C36 ORO	9.107	(5.784-12.430)		563488410	651.6	
38 C25	9.371	9.369	0.002	17603348	NC	
A 19 C16-C40	9.600	(5.784-13.416)		679753104	654.2	
46 n-Hexacosane	9.698	9.694	0.004	14794395	NC	
A 20 C19-C36	9.784	(7.139-12.430)		534625986	518.1	
A 55 C23-C32	10.057	(8.683-11.432)		292309770	529.4	
39 n-Octacosane	10.357	10.311	0.046	21522716	NC	
65 C29	10.602	10.605	-0.002	32023693	NC	
A 7 Motor Oil	10.731	(9.032-12.430)		369172694	519.3	
A 40 C24-C36	10.731	(9.032-12.430)		369172694	519.3	
A 10 C22-C40	10.868	(8.320-13.416)		469660975	476.0	
A 49 C25-C36	10.899	(9.369-12.430)		400403917	574.0	
A 41 C23-C40	11.049	(8.683-13.416)		590809735	591.1	
A 8 C24-C40	11.224	(9.032-13.416)		566839709	600.2	
56 Dotriacontane	11.457	11.432	0.025	16976413	NC	
A 50 C28-C40	11.863	(10.311-13.416)		461306071	629.4	
A 63 C29-C40	12.010	(10.605-13.416)		439783355	652.1	
42 n-Hexatriacontane	12.519	12.430	0.089	15559882	NC	
43 C40		13.416			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

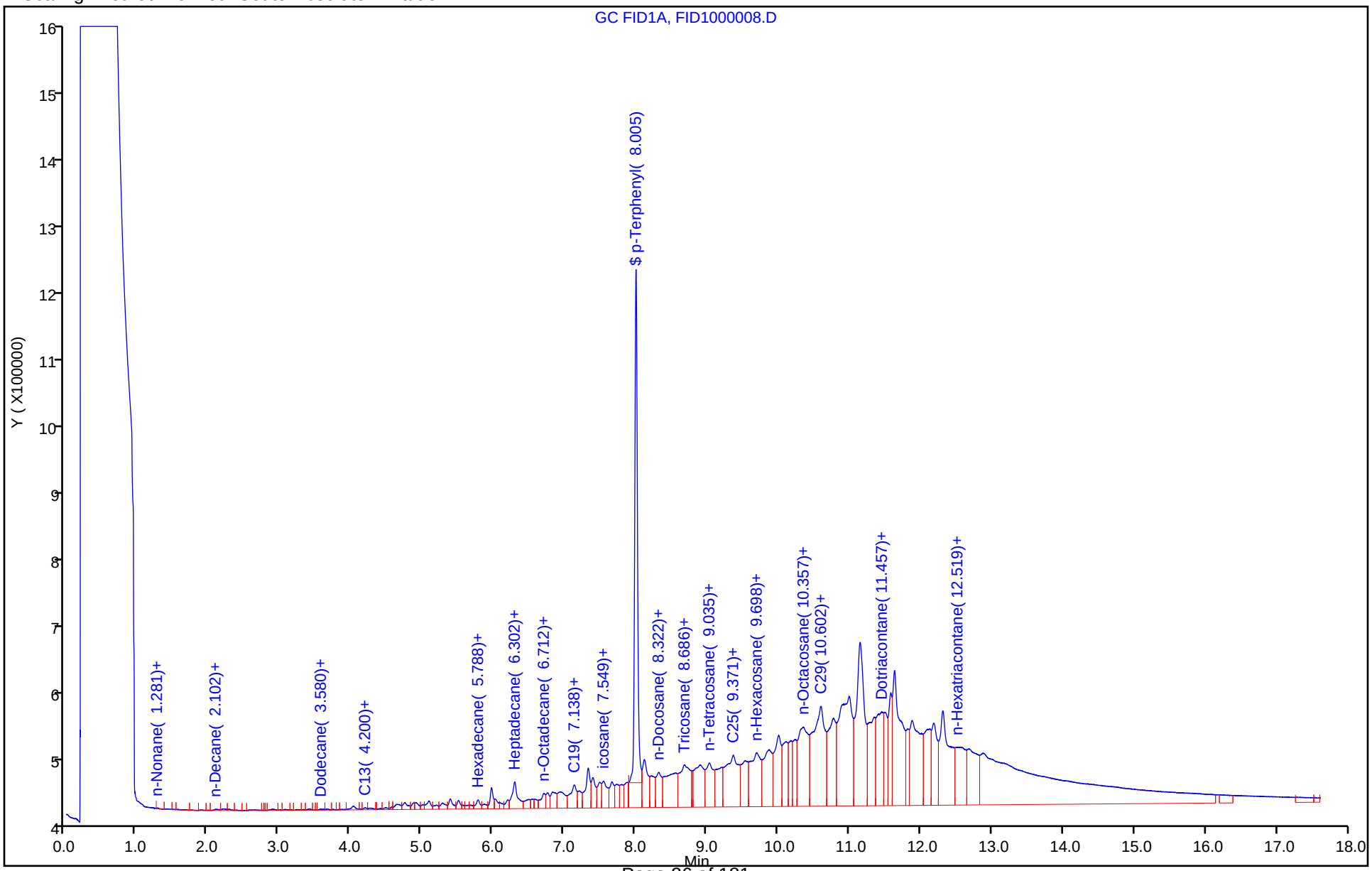
Report Date: 28-Dec-2018 13:45:28 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000008.D

Injection Date:	28-Dec-2018 12:59:23	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-E-4-D	Lab Sample ID:	720-90446-4	Worklist Smp#:	8
Client ID:	DG-AE3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000008.D
Lims ID: 720-90446-E-4-D
Client ID: DG-AE3S-3.5-4
Sample Type: Client
Inject. Date: 28-Dec-2018 12:59:23 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055876-008
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 13:45:27 Calib Date: 28-Dec-2018 10:37:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0322

First Level Reviewer: hayashid Date: 28-Dec-2018 13:45:27

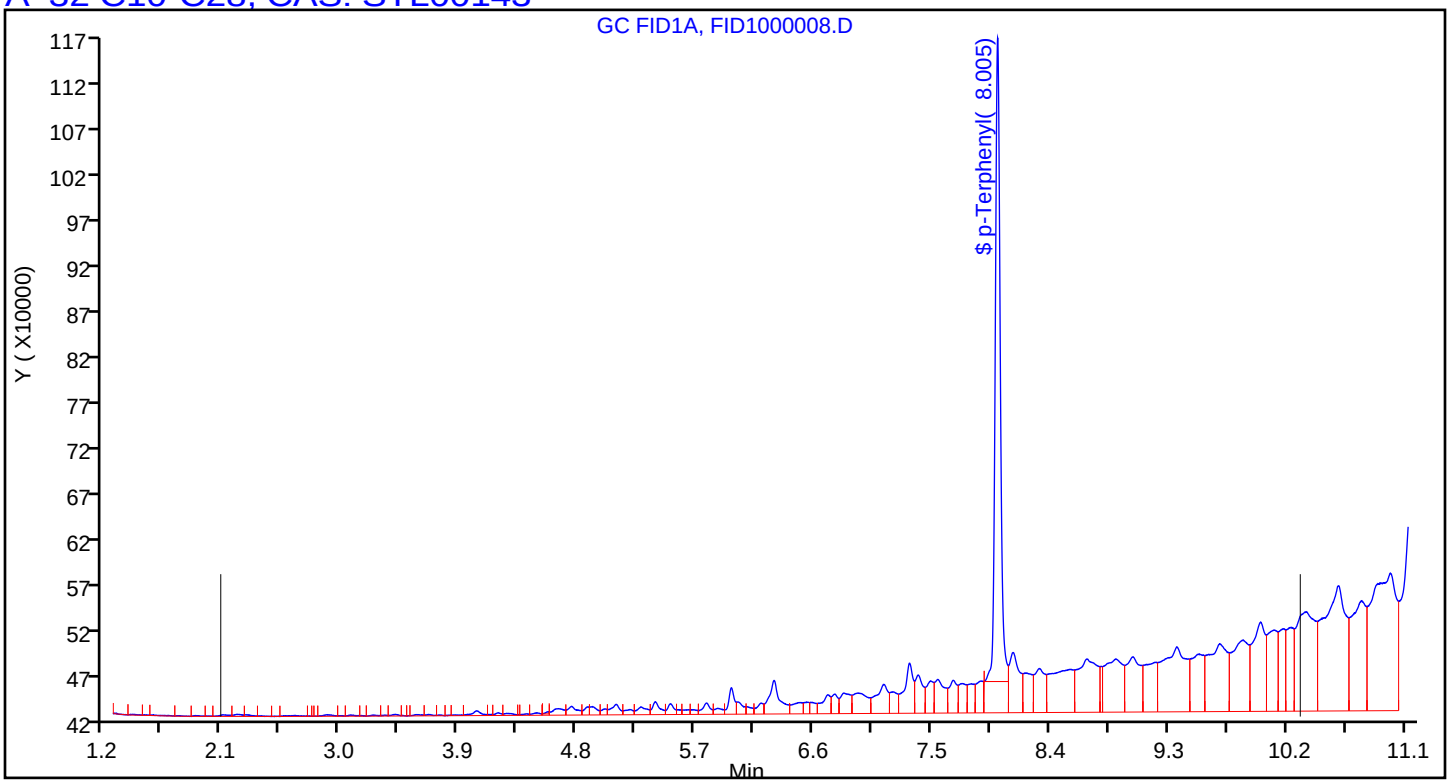
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.2	104.84

Report Date: 28-Dec-2018 13:45:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000008.D				
Injection Date:	28-Dec-2018 12:59:23	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-4-D	Lab Sample ID:	720-90446-4		
Client ID:	DG-AE3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

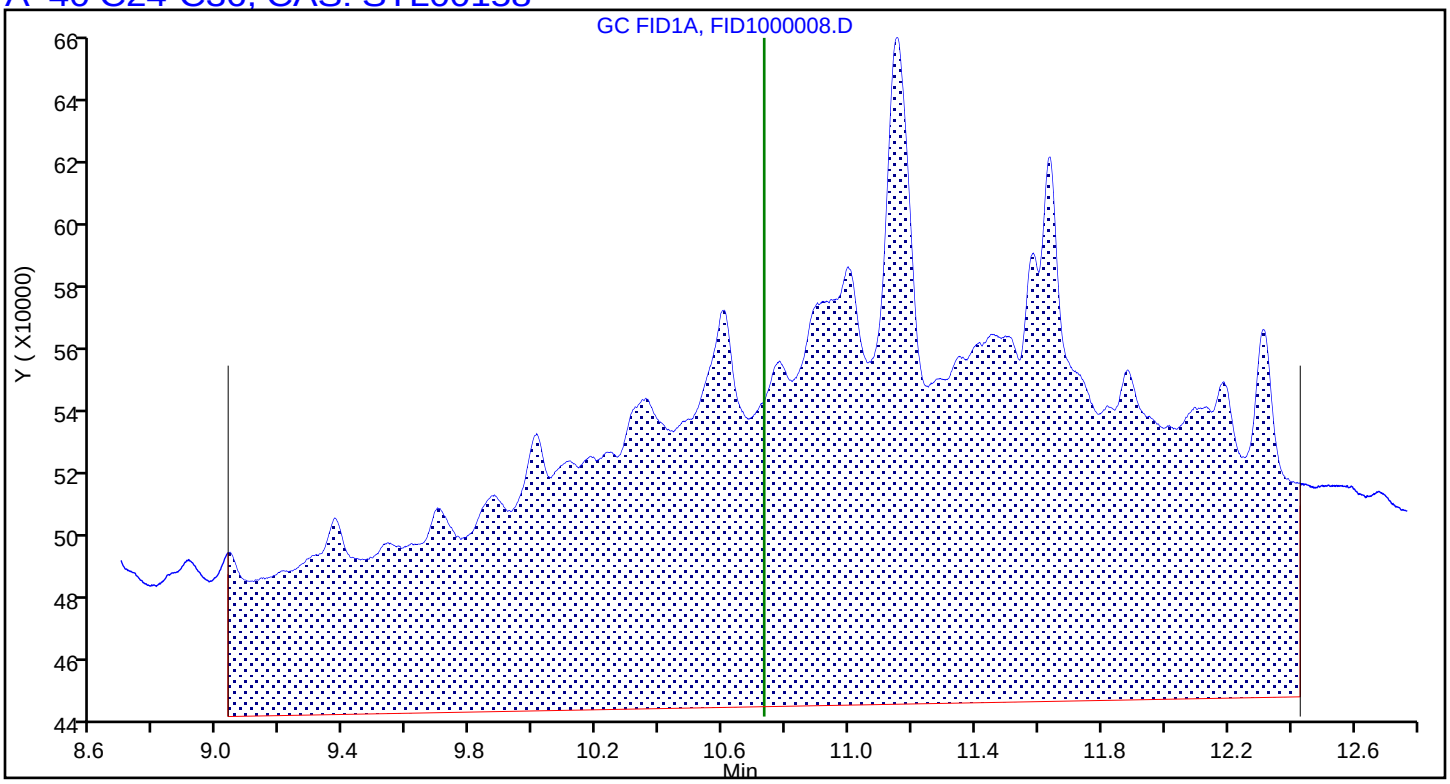


Report Date: 28-Dec-2018 13:45:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000008.D				
Injection Date:	28-Dec-2018 12:59:23	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-4-D	Lab Sample ID:	720-90446-4		
Client ID:	DG-AE3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000009.D
Lims ID: 720-90446-E-5-C
Client ID: DG-AG3S-0.5-1
Sample Type: Client
Inject. Date: 28-Dec-2018 13:23:34 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055876-009
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 13:45:57 Calib Date: 28-Dec-2018 10:37:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0322

First Level Reviewer: hayashid Date: 28-Dec-2018 13:45:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		1.210			ND	
23 n-Decane	2.005	2.086	-0.081	13381	NC	
A 21 Stoddard Solvent	2.698	(1.210-4.185)		1536227	1.16	
A 1 C9-C13	2.698	(1.210-4.185)		1536227	NC	
A 57 C10-C12	2.826	(2.086-3.565)		1135111	0.8899	
24 Dodecane	3.543	3.565	-0.022	205978	NC	
A 3 C9 - C17	3.735	(1.210-6.260)		4055458	2.66	
A 60 C10-C16	3.935	(2.086-5.784)		3296080	2.40	
A 47 C9 - C18	3.960	(1.210-6.710)		6107644	5.11	
A 25 C9-C19	4.174	(1.210-7.139)		8910762	5.81	
A 15 Kerosene	4.174	(1.210-7.139)		8910762	7.44	
26 C13	4.208	4.185	0.023	23046	NC	
$ 27 n-Decanoic Acid (Surr)		4.548			ND	U
A 59 C12-C16	4.675	(3.565-5.784)		2366947	1.86	
A 62 C10-C20	4.818	(2.086-7.549)		21185495	16.6	
A 28 C9-C24	5.121	(1.210-9.032)		54143189	42.4	
A 29 C9-C25	5.289	(1.210-9.369)		66425715	52.1	
A 54 C10-C23	5.385	(2.086-8.683)		43170264	33.8	
A 4 C10-C24	5.559	(2.086-9.032)		53899411	42.3	
A 16 C10-C25	5.727	(2.086-9.369)		66181937	51.9	
45 Hexadecane	5.782	5.784	-0.002	125306	NC	
A 14 C10-C26	5.890	(2.086-9.694)		79033358	62.0	
A 67 C12-C22	5.943	(3.565-8.320)		36039436	28.3	
A 5 Diesel	6.198	(2.086-10.311)		109025158	85.5	
A 12 Unknown Hydrocarbons	6.198	(2.086-10.311)		109025158	NC	
A 32 C10-C28	6.198	(2.086-10.311)		109025158	85.5	
A 30 C13-C22	6.252	(4.185-8.320)		35676120	28.0	
44 Heptadecane	6.258	6.260	-0.002	245663	NC	
A 31 C12-C24	6.299	(3.565-9.032)		52970278	41.5	
51 n-Octadecane	6.703	6.710	-0.007	291394	NC	
A 52 Mineral oil	6.820	(1.210-12.430)		325349864	NC	
A 11 Bunker Range Organics (C9-	6.820	(1.210-12.430)		325349864	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.820	(1.210-12.430)		325349864	NC	
33 C19	7.139	7.139	0.001	403907	NC	
A 64 C13-C28	7.248	(4.185-10.311)		107732709	84.5	
A 17 C10-C36	7.258	(2.086-12.430)		325106086	254.9	
A 13 C9-C40	7.313	(1.210-13.416)		421669028	380.2	
A 68 Crude Oil Range Organics (	7.313	(1.210-13.416)		421669028	NC	
A 58 C16-C24	7.408	(5.784-9.032)		50728637	39.8	
61 icosane	7.514	7.549	-0.035	1870784	NC	
A 6 C10-C40	7.751	(2.086-13.416)		421425250	380.7	
$ 34 p-Terphenyl	8.003	8.009	-0.006	40876904	28.5	
35 n-Docosane	8.302	8.320	-0.018	3988507	NC	
A 18 C12-C40	8.490	(3.565-13.416)		420496117	391.3	
36 Tricosane	8.691	8.683	0.008	3269263	NC	
A 66 C13-C40	8.800	(4.185-13.416)		420132801	396.8	
37 n-Tetracosane	9.053	9.032	0.021	4151596	NC	
A 2 C16-C36 ORO	9.107	(5.784-12.430)		365475801	422.6	
38 C25	9.394	9.369	0.025	4322215	NC	
A 19 C16-C40	9.600	(5.784-13.416)		418254476	402.6	
46 n-Hexacosane	9.728	9.694	0.034	5380556	NC	
A 20 C19-C36	9.784	(7.139-12.430)		356866581	345.8	
A 55 C23-C32	10.057	(8.683-11.432)		177146791	320.8	
39 n-Octacosane	10.351	10.311	0.040	13576378	NC	
65 C29	10.558	10.605	-0.046	17731428	NC	
A 7 Motor Oil	10.731	(9.032-12.430)		239519667	336.9	
A 40 C24-C36	10.731	(9.032-12.430)		239519667	336.9	
A 10 C22-C40	10.868	(8.320-13.416)		327676166	332.1	
A 49 C25-C36	10.899	(9.369-12.430)		258924149	371.2	
A 41 C23-C40	11.049	(8.683-13.416)		378254986	378.4	
A 8 C24-C40	11.224	(9.032-13.416)		367525839	389.2	
56 Dotriacontane	11.409	11.432	-0.023	14903218	NC	
A 50 C28-C40	11.863	(10.311-13.416)		312400092	426.2	
A 63 C29-C40	12.010	(10.605-13.416)		293611202	435.4	
42 n-Hexatriacontane	12.441	12.430	0.011	4183551	NC	
43 C40		13.416			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

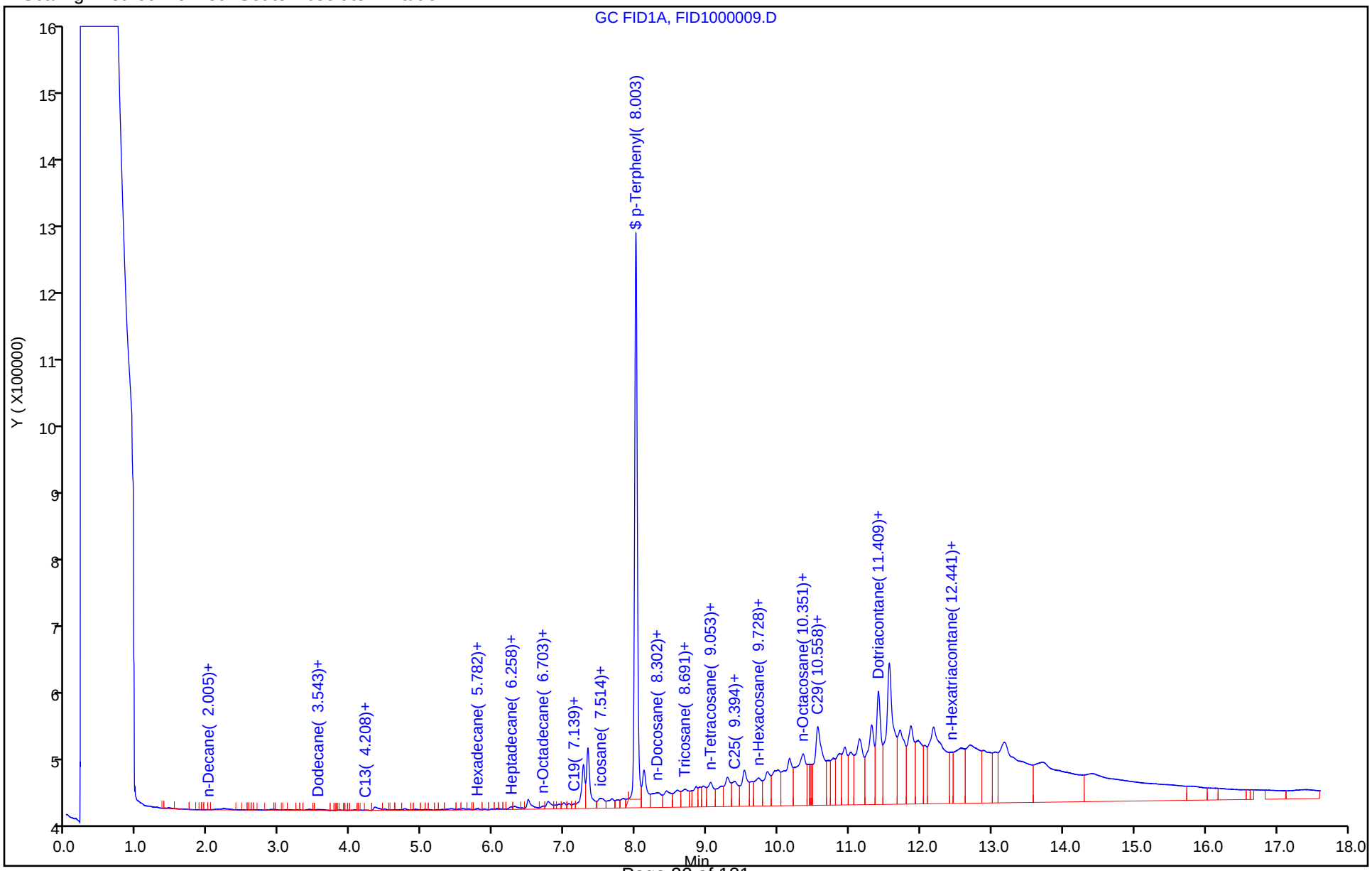
Report Date: 28-Dec-2018 13:45:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000009.D

Injection Date:	28-Dec-2018 13:23:34	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-E-5-C	Lab Sample ID:	720-90446-5	Worklist Smp#:	9
Client ID:	DG-AG3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000009.D
Lims ID: 720-90446-E-5-C
Client ID: DG-AG3S-0.5-1
Sample Type: Client
Inject. Date: 28-Dec-2018 13:23:34 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055876-009
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 13:45:57 Calib Date: 28-Dec-2018 10:37:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0322

First Level Reviewer: hayashid Date: 28-Dec-2018 13:45:57

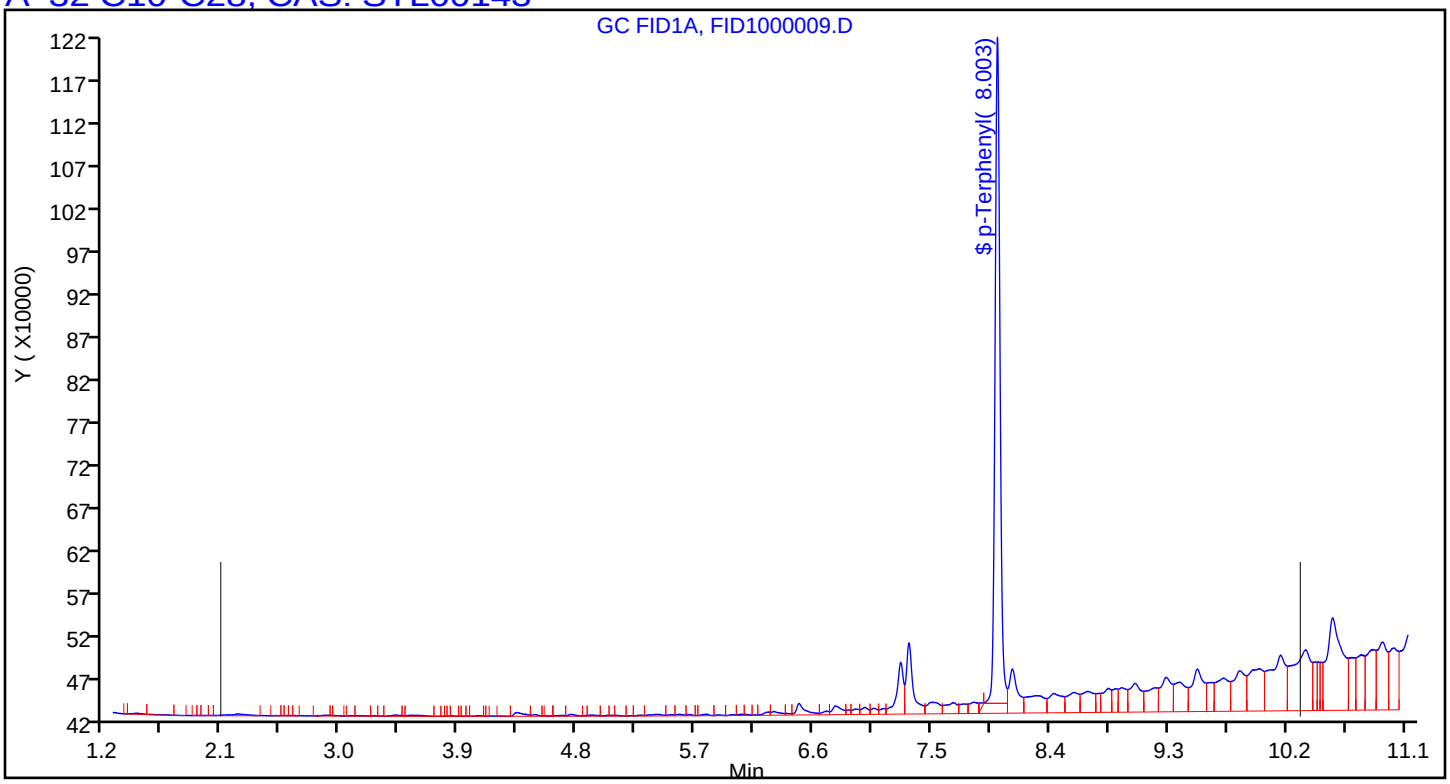
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	28.5	114.04

Report Date: 28-Dec-2018 13:45:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000009.D				
Injection Date:	28-Dec-2018 13:23:34	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-5-C	Lab Sample ID:	720-90446-5		
Client ID:	DG-AG3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

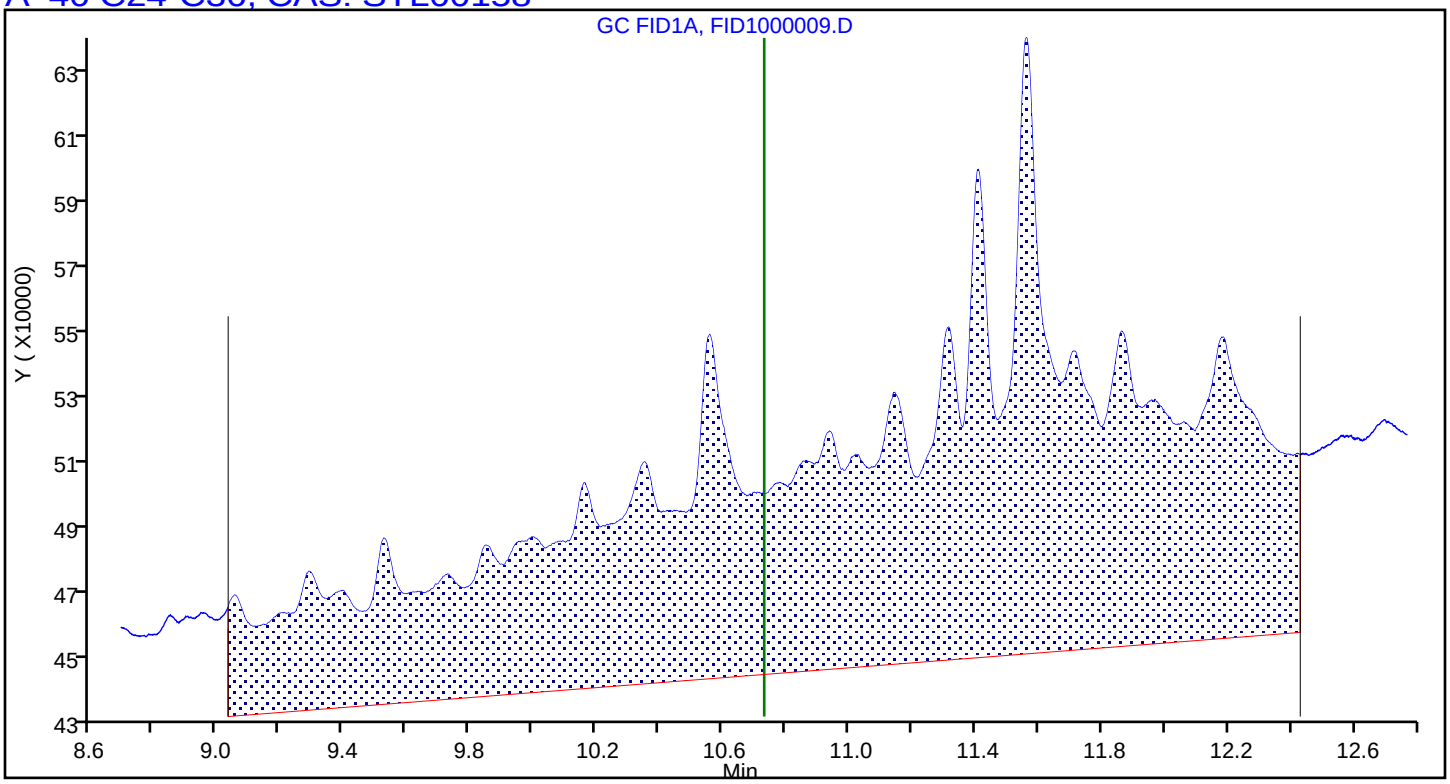


Report Date: 28-Dec-2018 13:46:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000009.D				
Injection Date:	28-Dec-2018 13:23:34	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-5-C	Lab Sample ID:	720-90446-5		
Client ID:	DG-AG3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000024.D
Lims ID: 720-90446-E-6-C
Client ID: DG-AG3S-3.5-4
Sample Type: Client
Inject. Date: 27-Dec-2018 22:00:33 ALS Bottle#: 74 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 3.0000
Sample Info: 720-0055856-024
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\DRO6_B.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:28:24 Calib Date: 27-Dec-2018 13:28:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000010.D

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 07:28:43

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.358			ND	
	23 n-Decane	2.226	2.204	0.022	185692	NC	
A	21 Stoddard Solvent	2.807	(1.358-4.257)		2391868	1.00	
A	1 C9-C13	2.807	(1.358-4.257)		2391868	NC	
A	57 C10-C12	2.925	(2.204-3.646)		1366938	0.6913	
	24 Dodecane	3.648	3.646	0.002	36458	NC	
A	3 C9 - C17	3.833	(1.358-6.308)		12529463	4.36	M
A	60 C10-C16	4.021	(2.204-5.838)		10813967	4.22	M
A	47 C9 - C18	4.056	(1.358-6.754)		14904188	6.57	M
	26 C13	4.261	4.257	0.004	27399	NC	
A	25 C9-C19	4.268	(1.358-7.178)		14904188	5.16	M
A	15 Kerosene	4.268	(1.358-7.178)		14904188	6.56	M
$	27 n-Decanoic Acid (Surr)		4.608			ND	U
A	59 C12-C16	4.742	(3.646-5.838)		9447029	4.78	M
A	61 C10-C20	4.894	(2.204-7.585)		40735763	20.6	M
A	28 C9-C24	5.205	(1.358-9.051)		133792812	67.7	M
A	29 C9-C25	5.371	(1.358-9.383)		133792812	67.7	M
A	54 C10-C23	5.455	(2.204-8.706)		133076712	67.3	M
A	4 C10-C24	5.628	(2.204-9.051)		133076712	67.3	M
A	16 C10-C25	5.794	(2.204-9.383)		133076712	67.3	M
	45 Hexadecane	5.842	5.838	0.004	208249	NC	M
A	14 C10-C26	5.954	(2.204-9.704)		133076712	67.3	M
A	67 C12-C22	5.997	(3.646-8.348)		131709774	66.6	M
A	32 C10-C28	6.258	(2.204-10.312)		1053935209	533.0	M
A	12 Unknown Hydrocarbons	6.258	(2.204-10.312)		1053935209	NC	M
A	5 Diesel	6.258	(2.204-10.312)		1053935209	533.0	M
A	30 C13-C22	6.302	(4.257-8.348)		131400944	66.4	M
	44 Heptadecane	6.392	6.308	0.084	1173459	NC	M
A	31 C12-C24	6.348	(3.646-9.051)		131709774	66.6	M
	49 n-Octadecane		6.754			ND	
A	52 Mineral oil	6.875	(1.358-12.392)		2830650079	1229.9	M
A	11 Bunker Range Organics (C9-	6.875	(1.358-12.392)		2830650079	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.358-12.392)		2830650079	NC	M
33 C19	7.183	7.178	0.005	15104033	NC	M
A 64 C13-C28	7.284	(4.257-10.312)		1052259441	532.1	M
A 17 C10-C36	7.298	(2.204-12.392)		2829933979	1431.1	M
A 13 C9-C40	7.363	(1.358-13.369)		2830650079	1596.9	M
A 68 Crude Oil Range Organics (	7.363	(1.358-13.369)		2830650079	NC	M
A 58 C16-C24	7.445	(5.838-9.051)		122262745	61.8	M
62 icosane	7.590	7.585	0.005	14875119	NC	M
A 6 C10-C40	7.786	(2.204-13.369)		2829933979	1598.3	M
$ 34 p-Terphenyl	8.040	8.042	-0.002	17098905	7.26	M
35 n-Docosane		8.348			ND	
A 18 C12-C40	8.507	(3.646-13.369)		2828567041	1603.4	M
36 Tricosane		8.706			ND	
A 66 C13-C40	8.813	(4.257-13.369)		2828258211	1604.6	M
37 n-Tetracosane		9.051			ND	
A 2 C16-C36 ORO	9.115	(5.838-12.392)		2819120012	2082.0	M
38 C25		9.383			ND	
A 19 C16-C40	9.603	(5.838-13.369)		2819120012	1602.7	M
46 n-Hexacosane		9.704			ND	
A 20 C19-C36	9.785	(7.178-12.392)		2268102313	1408.8	
A 55 C23-C32	10.060	(8.706-11.414)		2696857267	3040.2	EM
39 n-Octacosane	10.258	10.312	-0.054	71549012	NC	M
65 C29	10.598	10.601	-0.003	117257630	NC	M
A 7 Motor Oil	10.722	(9.051-12.392)		1960760943	1695.0	
A 40 C24-C36	10.722	(9.051-12.392)		1990509727	1720.7	M
A 10 C22-C40	10.858	(8.348-13.369)		2397783777	1481.1	
A 50 C25-C36	10.888	(9.383-12.392)		1815930779	1677.5	
A 41 C23-C40	11.037	(8.706-13.369)		2309165766	1454.1	
A 8 C24-C40	11.210	(9.051-13.369)		2203478877	1417.7	
56 Dotriacontane		11.414			ND	
A 51 C28-C40	11.840	(10.312-13.369)		1538653401	1236.9	
A 63 C29-C40	11.985	(10.601-13.369)		1330576250	1165.2	
42 n-Hexatriacontane		12.392			ND	
43 C40		13.369			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

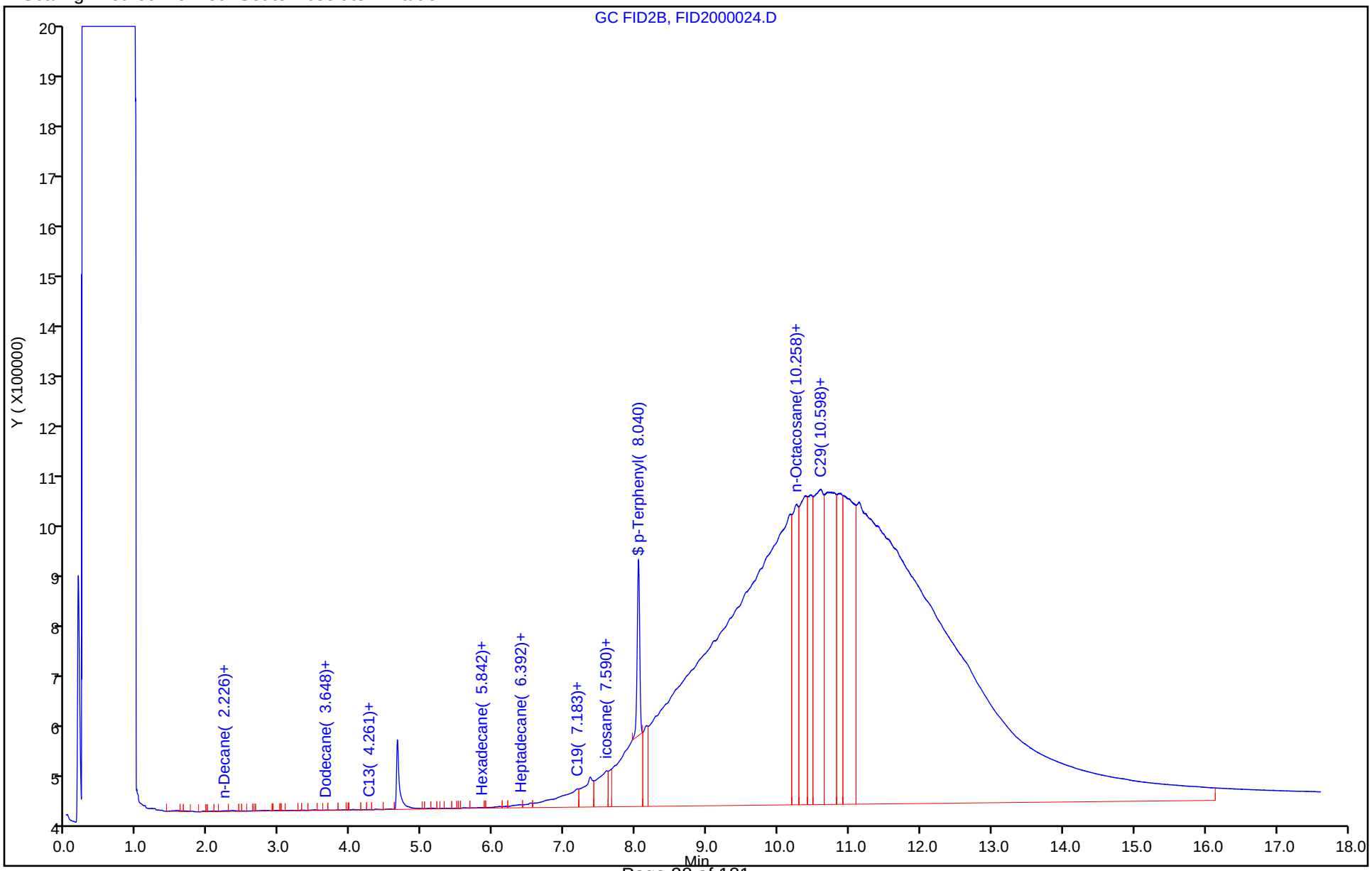
Report Date: 28-Dec-2018 07:28:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000024.D

Injection Date:	27-Dec-2018 22:00:33	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-E-6-C	Lab Sample ID:	720-90446-6	Worklist Smp#:	24
Client ID:	DG-AG3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	3.0000	ALS Bottle#:	74
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000024.D
Lims ID: 720-90446-E-6-C
Client ID: DG-AG3S-3.5-4
Sample Type: Client
Inject. Date: 27-Dec-2018 22:00:33 ALS Bottle#: 74 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 3.0000
Sample Info: 720-0055856-024
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\DRO6_B.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:28:24 Calib Date: 27-Dec-2018 13:28:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000010.D

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 07:28:43

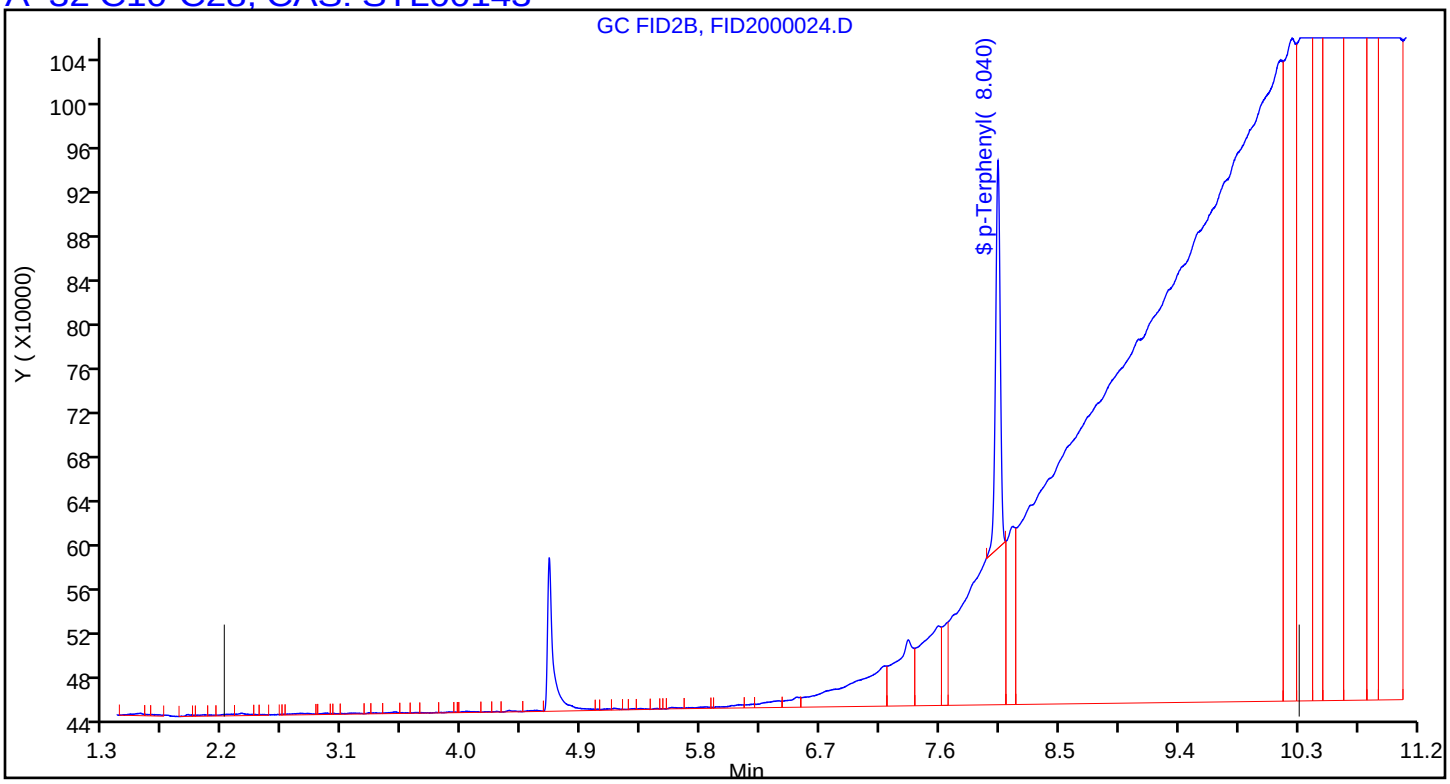
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	7.26	29.04

Report Date: 28-Dec-2018 07:28:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000024.D				
Injection Date:	27-Dec-2018 22:00:33	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-6-C	Lab Sample ID:	720-90446-6		
Client ID:	DG-AG3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

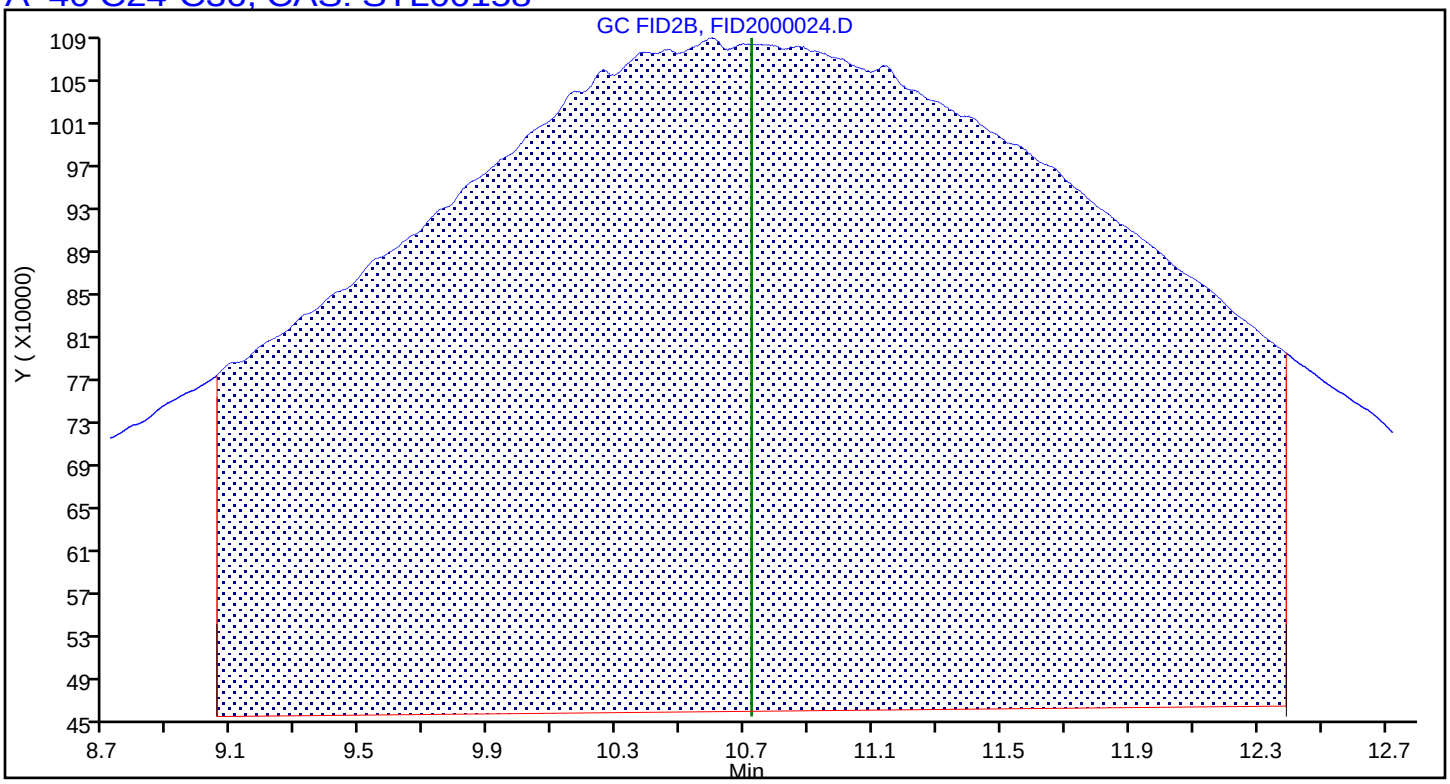


Report Date: 28-Dec-2018 07:28:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000024.D				
Injection Date:	27-Dec-2018 22:00:33	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-6-C	Lab Sample ID:	720-90446-6		
Client ID:	DG-AG3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

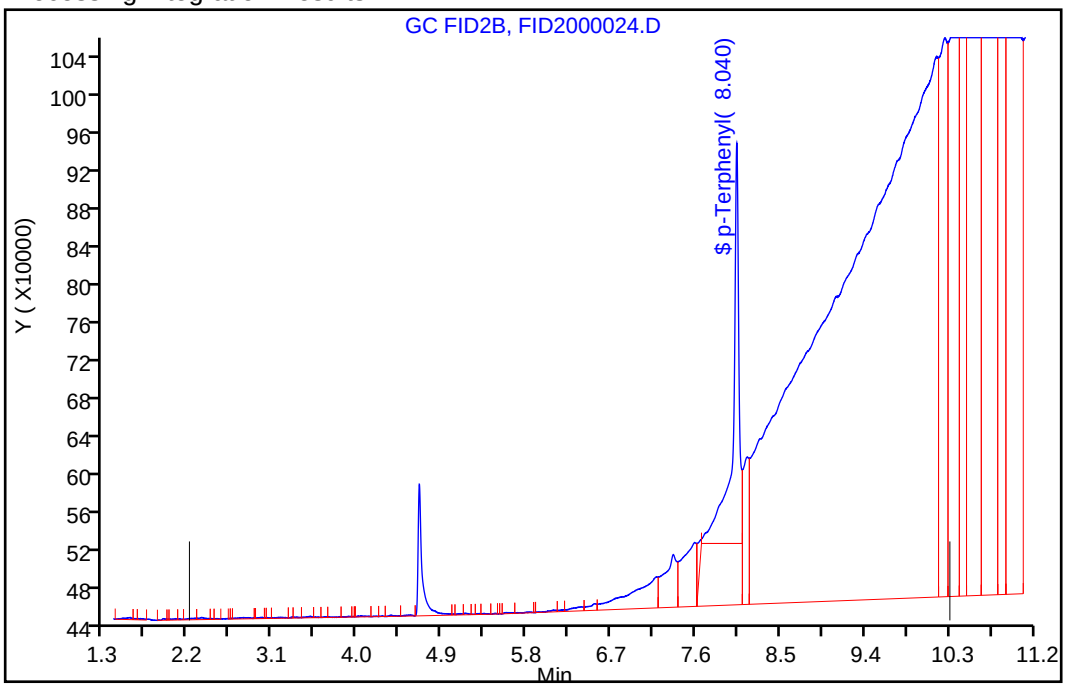
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Injection Date:	27-Dec-2018 22:00:33	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-6-C	Lab Sample ID:	720-90446-6		
Client ID:	DG-AG3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.258, CAS: STL00143

Signal: 1

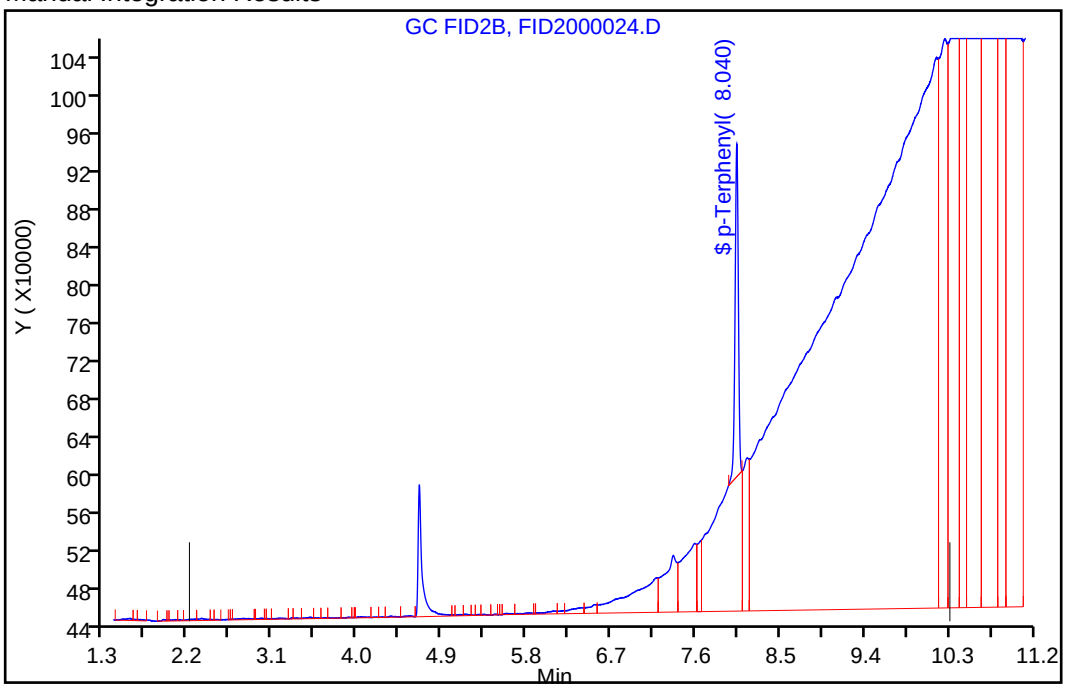
Processing Integration Results

RT: 6.26
Response: 993236751
Amount: 502.2741



Manual Integration Results

RT: 6.26
Response: 1053935209
Amount: 532.9690



Reviewer: hayashid, 28-Dec-2018 06:45:37

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

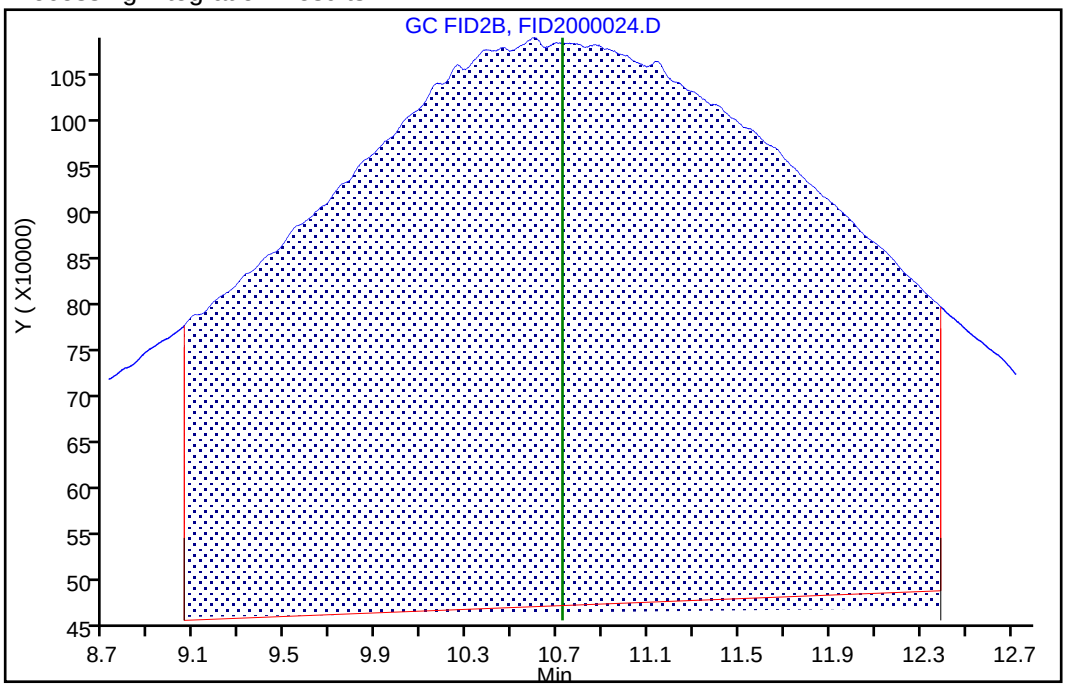
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Injection Date:	27-Dec-2018 22:00:33	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-6-C	Lab Sample ID:	720-90446-6		
Client ID:	DG-AG3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.722, CAS: STL00158

Signal: 1

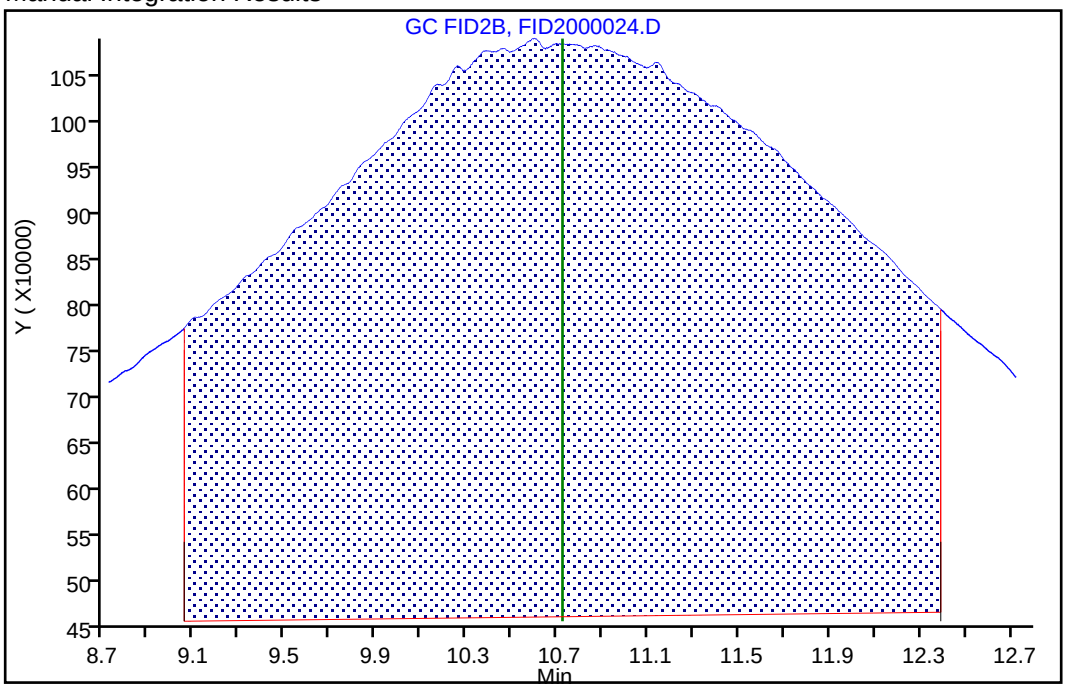
Processing Integration Results

RT: 10.72
Response: 1960760943
Amount: 1694.9782



Manual Integration Results

RT: 10.72
Response: 1990509727
Amount: 1720.6946



Reviewer: hayashid, 28-Dec-2018 06:46:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

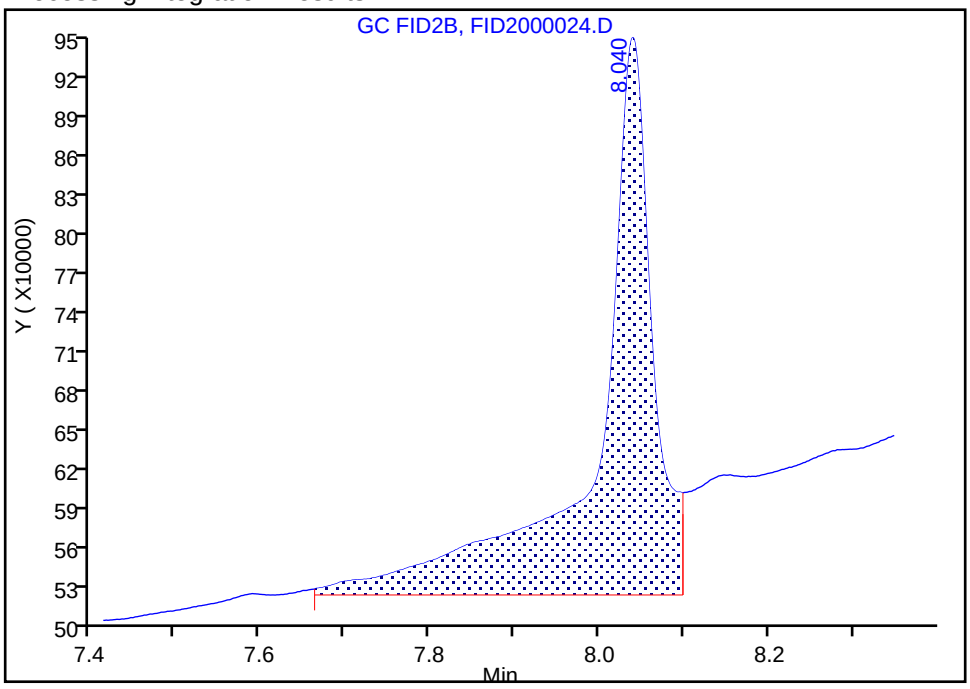
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000024.D				
Injection Date:	27-Dec-2018 22:00:33	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-6-C	Lab Sample ID:	720-90446-6		
Client ID:	DG-AG3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

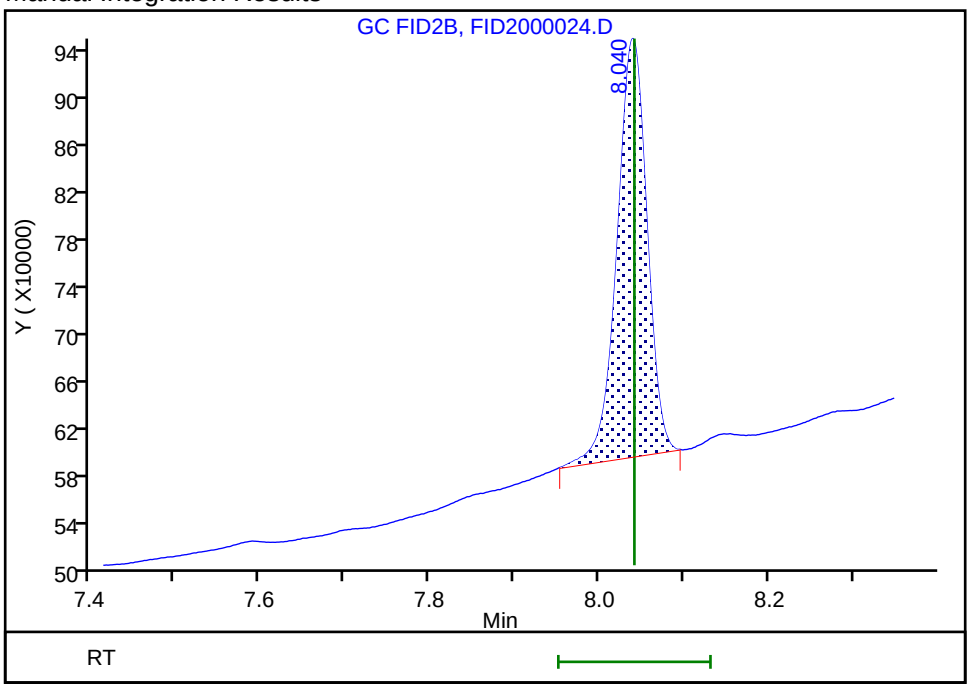
Processing Integration Results

RT: 8.04
Area: 39556938
Amount: 16.796551
Amount Units: mg/L



Manual Integration Results

RT: 8.04
Area: 17098905
Amount: 7.260487
Amount Units: mg/L



Reviewer: hayashid, 28-Dec-2018 06:45:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\FID2000008.D
Lims ID: 720-90446-E-7-C
Client ID: DG-AI3S-0.5-1
Sample Type: Client
Inject. Date: 26-Dec-2018 10:40:41 ALS Bottle#: 58 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055836-008
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\DRO6_B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:27:27 Calib Date: 26-Dec-2018 08:13:57
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:27:27

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.358	1.358	0.000	124201	NC	
	23 n-Decane	2.204	2.204	0.000	243752	NC	
A	1 C9-C13	2.807	(1.358-4.257)		4045467	NC	
A	21 Stoddard Solvent	2.807	(1.358-4.257)		4045467	1.70	
A	57 C10-C12	2.925	(2.204-3.645)		1927211	0.9082	
	24 Dodecane	3.648	3.645	0.003	253864	NC	
A	3 C9 - C17	3.833	(1.358-6.308)		8857169	3.08	M
A	60 C10-C16	4.021	(2.204-5.838)		7492527	2.93	M
A	47 C9 - C18	4.056	(1.358-6.753)		10777620	4.75	M
	26 C13	4.259	4.257	0.002	267816	NC	
A	15 Kerosene	4.268	(1.358-7.178)		12891253	5.67	M
A	25 C9-C19	4.268	(1.358-7.178)		12891253	4.46	M
$	27 n-Decanoic Acid (Surr)		4.613			ND	U
A	59 C12-C16	4.742	(3.645-5.838)		5565316	2.62	M
A	61 C10-C20	4.894	(2.204-7.584)		25898475	12.2	M
A	28 C9-C24	5.205	(1.358-9.051)		48694551	22.9	M
A	29 C9-C25	5.371	(1.358-9.384)		55737606	26.3	M
A	54 C10-C23	5.455	(2.204-8.706)		40545526	19.1	M
A	4 C10-C24	5.628	(2.204-9.051)		47653650	22.5	M
A	16 C10-C25	5.794	(2.204-9.384)		54696705	25.8	M
	45 Hexadecane	5.838	5.838	0.000	256776	NC	M
A	14 C10-C26	5.954	(2.204-9.704)		61991887	29.2	M
A	67 C12-C22	5.996	(3.645-8.347)		32771957	15.4	M
A	5 Diesel	6.258	(2.204-10.312)		82247267	38.8	M
A	12 Unknown Hydrocarbons	6.258	(2.204-10.312)		82247267	NC	M
A	32 C10-C28	6.258	(2.204-10.312)		82247267	38.8	M
A	30 C13-C22	6.302	(4.257-8.347)		31694602	14.9	M
	44 Heptadecane	6.312	6.308	0.004	306988	NC	M
A	31 C12-C24	6.348	(3.645-9.051)		45726439	21.5	M
	49 n-Octadecane	6.808	6.753	0.055	1133299	NC	M
A	9 Crude Oil Range Organics (	6.876	(1.358-12.394)		189050390	NC	M
A	11 Bunker Range Organics (C9-	6.876	(1.358-12.394)		189050390	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.876	(1.358-12.394)		189050390	82.1	M
33 C19	7.108	7.178	-0.070	195371	NC	M
A 64 C13-C28	7.284	(4.257-10.312)		79242701	37.3	M
A 17 C10-C36	7.299	(2.204-12.394)		188009489	88.6	M
A 68 Crude Oil Range Organics (	7.365	(1.358-13.371)		235700151	NC	M
A 13 C9-C40	7.365	(1.358-13.371)		235700151	120.7	M
A 58 C16-C24	7.445	(5.838-9.051)		40417899	19.0	M
62 icosane	7.544	7.584	-0.040	1679998	NC	M
A 6 C10-C40	7.788	(2.204-13.371)		234659250	120.2	M
$ 34 p-Terphenyl	8.043	8.050	-0.007	59508879	22.1	
35 n-Docosane	8.349	8.347	0.002	1594385	NC	M
A 18 C12-C40	8.508	(3.645-13.371)		232732039	119.6	M
36 Tricosane	8.715	8.706	0.009	2617408	NC	M
A 66 C13-C40	8.814	(4.257-13.371)		231654684	119.1	M
37 n-Tetracosane	9.093	9.051	0.042	2559804	NC	M
A 2 C16-C36 ORO	9.116	(5.838-12.394)		180773738	120.1	M
38 C25	9.393	9.384	0.009	3116540	NC	M
A 19 C16-C40	9.605	(5.838-13.371)		227423499	117.2	M
46 n-Hexacosane	9.747	9.704	0.043	3600134	NC	M
A 20 C19-C36	9.786	(7.178-12.394)		140674492	87.4	
A 55 C23-C32	10.061	(8.706-11.416)		96721006	96.8	M
39 n-Octacosane	10.347	10.312	0.035	5184106	NC	M
65 C29	10.562	10.602	-0.040	9961987	NC	M
A 40 C24-C36	10.723	(9.051-12.394)		129710555	101.0	
A 7 Motor Oil	10.723	(9.051-12.394)		129710555	101.0	
A 10 C22-C40	10.859	(8.347-13.371)		178244410	99.6	
A 50 C25-C36	10.889	(9.384-12.394)		121068992	100.7	
A 41 C23-C40	11.039	(8.706-13.371)		176490288	100.8	
A 8 C24-C40	11.211	(9.051-13.371)		173845759	101.8	
56 Dotriacontane	11.409	11.416	-0.007	4937818	NC	M
A 51 C28-C40	11.842	(10.312-13.371)		147770239	109.6	
A 63 C29-C40	11.986	(10.602-13.371)		136858888	110.9	
42 n-Hexatriacontane		12.394			ND	
43 C40		13.371			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

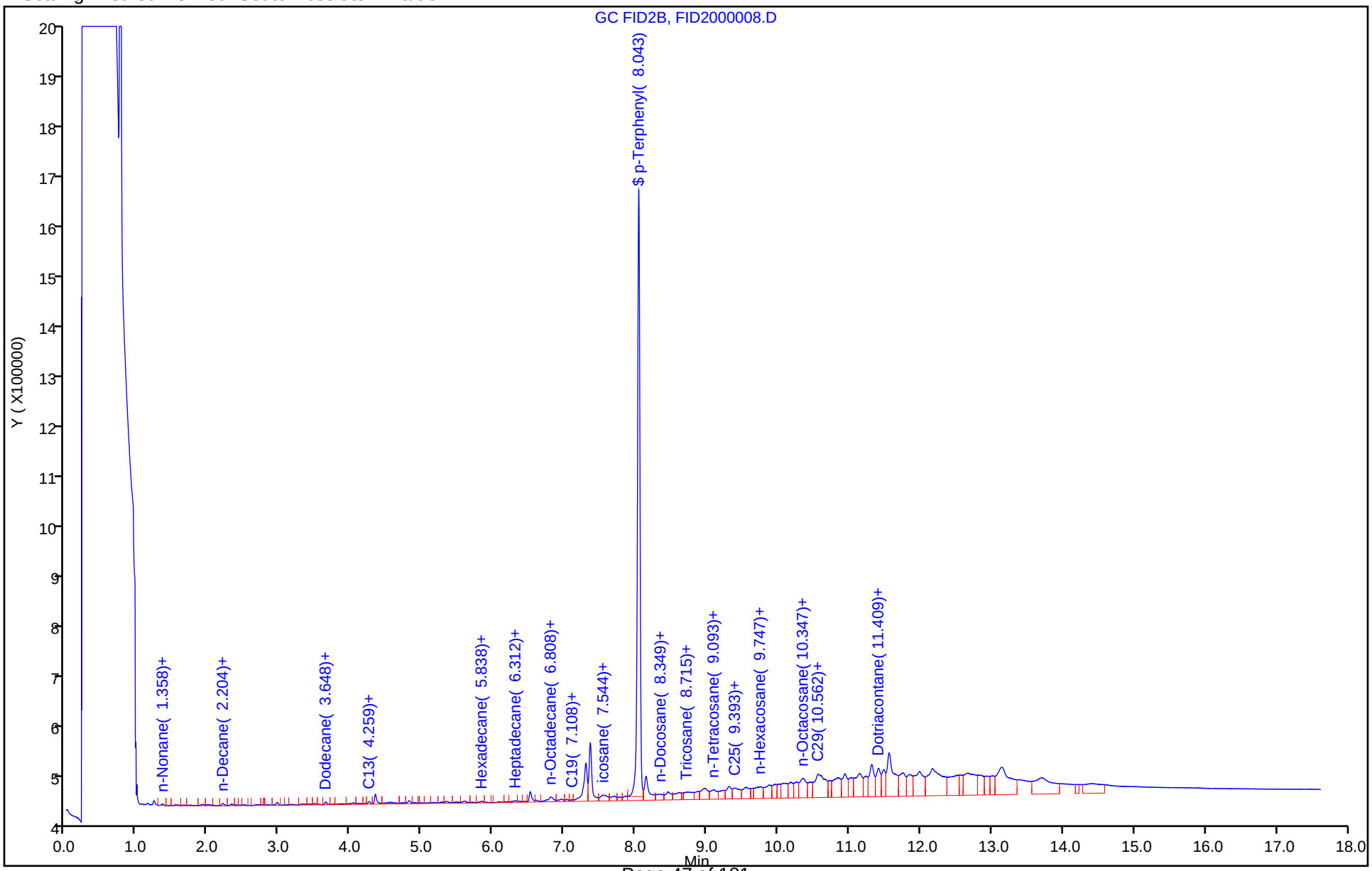
Report Date: 26-Dec-2018 12:27:28 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\FID2000008.D

Injection Date:	26-Dec-2018 10:40:41	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-E-7-C	Lab Sample ID:	720-90446-7	Worklist Smp#:	8
Client ID:	DG-AI3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	58
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\FID2000008.D
Lims ID: 720-90446-E-7-C
Client ID: DG-AI3S-0.5-1
Sample Type: Client
Inject. Date: 26-Dec-2018 10:40:41 ALS Bottle#: 58 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055836-008
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\DRO6_B.m
Limit Group: DRO
Last Update: 26-Dec-2018 12:27:27 Calib Date: 26-Dec-2018 08:13:57
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 12:27:27

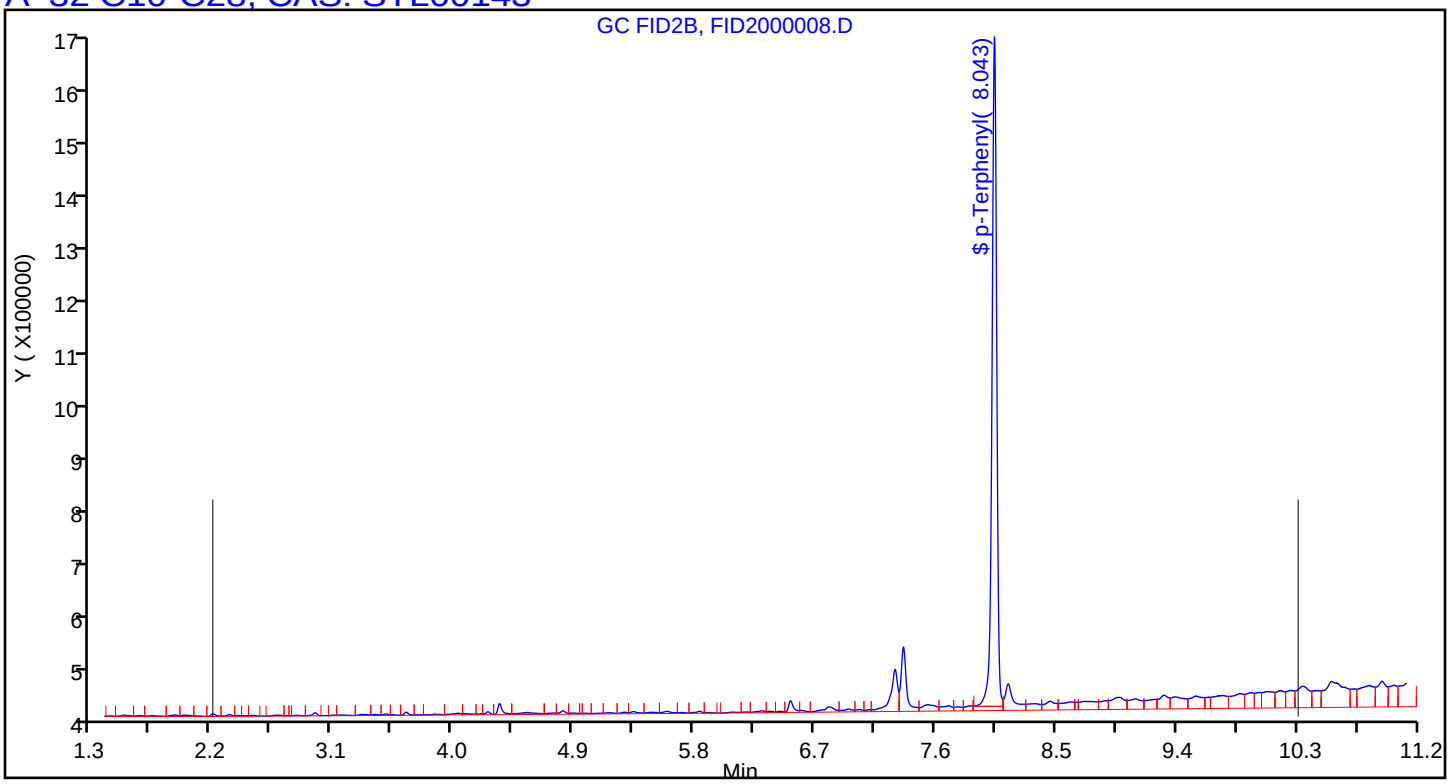
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.1	88.36

Report Date: 26-Dec-2018 12:27:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\FID2000008.D				
Injection Date:	26-Dec-2018 10:40:41	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-7-C	Lab Sample ID:	720-90446-7		
Client ID:	DG-AI3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	58	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

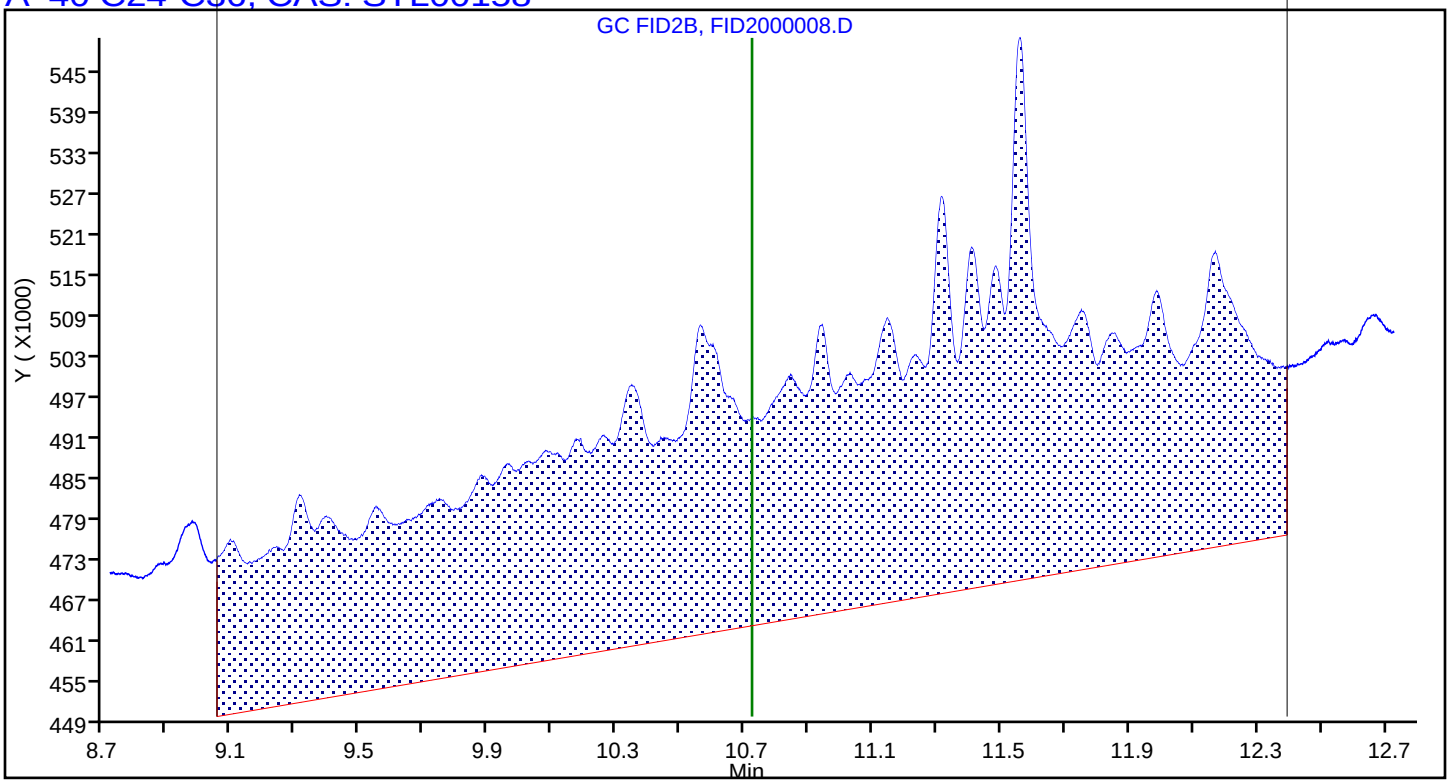


Report Date: 26-Dec-2018 12:27:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\FID2000008.D				
Injection Date:	26-Dec-2018 10:40:41	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-7-C	Lab Sample ID:	720-90446-7		
Client ID:	DG-AI3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	58	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

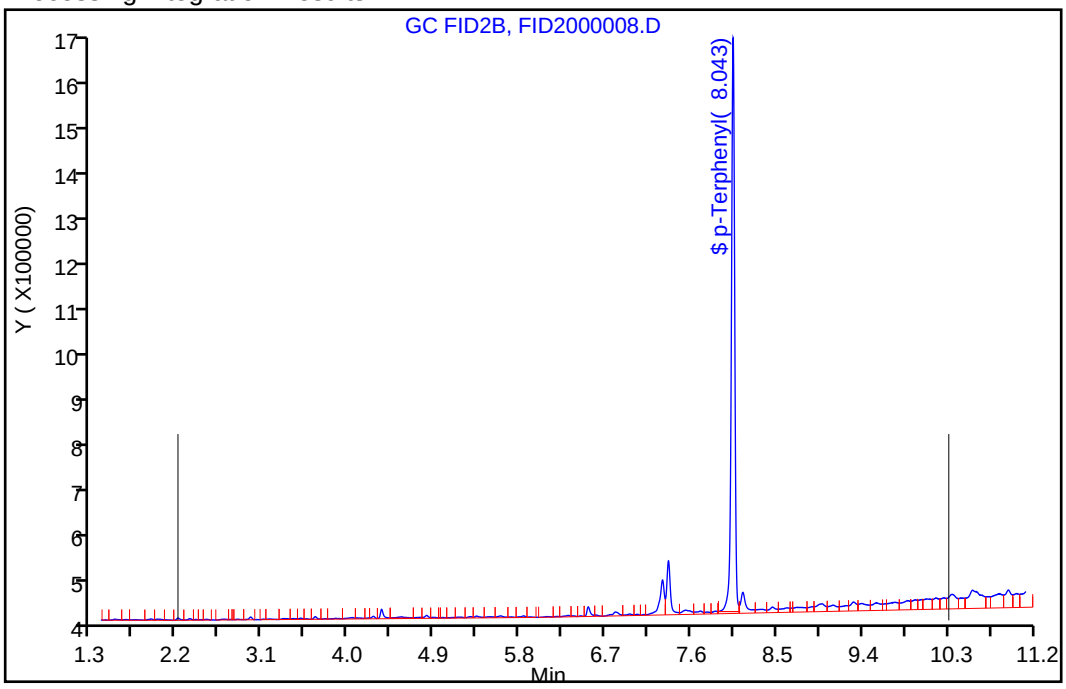
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181226-55836.b\FID2000008.D				
Injection Date:	26-Dec-2018 10:40:41	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-7-C	Lab Sample ID:	720-90446-7		
Client ID:	DG-AI3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	58	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.258, CAS: STL00143

Signal: 1

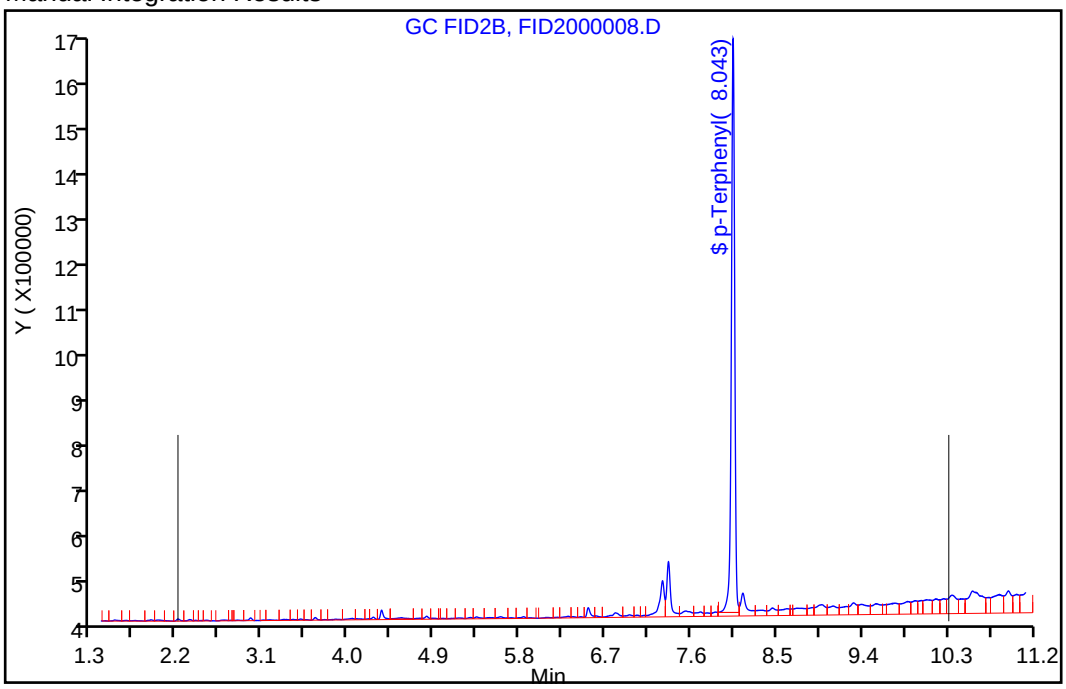
Processing Integration Results

RT: 6.26
Response: 61296734
Amount: 28.885155



Manual Integration Results

RT: 6.26
Response: 82247267
Amount: 38.757776



Reviewer: hayashid, 26-Dec-2018 12:26:44

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_009.d
Lims ID: 720-90446-E-8-A
Client ID: DG-AI3S-3.5-4
Sample Type: Client
Inject. Date: 26-Dec-2018 12:52:07 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0055838-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 13:27:07 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 13:27:07

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.729	2.691	0.038	1183	NC	
	23 n-Decane	3.918	3.904	0.014	1976	NC	
A	1 C9-C13	4.645	(2.691-6.599)		45957	3.63	
A	21 Stoddard Solvent	4.645	(2.691-6.599)		45957	4.04	
A	57 C10-C12	4.851	(3.904-5.799)		23486	2.39	
	24 Dodecane	5.799	5.799	0.000	3267	NC	
A	3 C9 - C17	5.998	(2.691-9.306)		202278	14.3	
A	47 C9 - C18	6.287	(2.691-9.883)		295174	26.3	
A	60 C10-C16	6.289	(3.904-8.675)		142383	11.4	
A	15 Kerosene	6.564	(2.691-10.437)		344954	30.7	
A	25 C9-C19	6.564	(2.691-10.437)		344954	24.4	
	26 C13		6.599			ND	
$	27 n-Decanoic Acid (Surr)		7.214			ND	U
A	59 C12-C16	7.237	(5.799-8.675)		122164	12.4	
A	62 C10-C20	7.437	(3.904-10.971)		458515	46.7	
A	28 C9-C24	7.791	(2.691-12.891)		943620	96.1	
A	29 C9-C25	8.009	(2.691-13.326)		1016469	103.5	
A	54 C10-C23	8.172	(3.904-12.440)		761006	77.5	
A	4 C10-C24	8.397	(3.904-12.891)		938223	95.6	
A	16 C10-C25	8.615	(3.904-13.326)		1011072	103.0	
	45 Hexadecane	8.676	8.675	0.001	25814	NC	
A	14 C10-C26	8.825	(3.904-13.745)		1176878	119.9	
A	67 C12-C22	8.885	(5.799-11.970)		519923	53.0	
A	5 Diesel	9.222	(3.904-14.540)		1472632	150.0	
A	32 C10-C28	9.222	(3.904-14.540)		1472632	150.0	
A	12 Unknown Hydrocarbons	9.222	(3.904-14.540)		1472632	NC	
A	30 C13-C22	9.284	(6.599-11.970)		509431	51.9	
	44 Heptadecane	9.308	9.306	0.002	32037	NC	
A	31 C12-C24	9.345	(5.799-12.891)		918004	93.5	
	49 n-Octadecane	9.882	9.883	-0.001	19220	NC	
A	52 Mineral oil	9.972	(2.691-17.253)		3664787	337.3	
A	9 Crude Oil Range Organics (	9.854	(2.691-17.017)		3489880	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.972	(2.691-17.253)		2989029	NC	
33 C19	10.440	10.437	0.003	35067	NC	
A 64 C13-C28	10.569	(6.599-14.540)		1441921	146.9	
A 17 C10-C36	10.460	(3.904-17.017)		2983632	303.9	
A 13 C9-C40	10.752	(2.691-18.814)		4596749	454.7	
A 68 Crude Oil Range Organics (	10.752	(2.691-18.814)		4596749	NC	
A 58 C16-C24	10.783	(8.675-12.891)		795840	81.1	
61 icosane	10.972	10.971	0.001	26425	NC	
A 6 C10-C40	11.359	(3.904-18.814)		4588408	454.4	
$ 34 p-Terphenyl	11.933	11.938	-0.005	315729	25.1	
35 n-Docosane		11.970			ND	
A 18 C12-C40	12.306	(5.799-18.814)		4554108	452.4	
36 Tricosane	12.440	12.440	0.000	37176	NC	
A 66 C13-C40	12.706	(6.599-18.814)		4204022	423.9	
37 n-Tetracosane	12.886	12.891	-0.005	51811	NC	
A 2 C16-C36 ORO	12.964	(8.675-17.253)		2595508	351.8	
38 C25	13.329	13.326	0.003	55219	NC	
A 19 C16-C40	13.744	(8.675-18.814)		4360483	435.6	
46 n-Hexacosane	13.730	13.745	-0.015	110587	NC	
A 20 C19-C36	13.845	(10.437-17.253)		2340038	300.1	
A 55 C23-C32	14.210	(12.440-15.979)		1506189	349.7	
39 n-Octacosane	14.448	14.540	-0.092	141281	NC	
65 C29	14.923	14.918	0.005	86716	NC	
A 40 C24-C36	15.072	(12.891-17.253)		2234753	356.6	M
A 7 Motor Oil	15.072	(12.891-17.253)		2211828	352.9	
A 50 C25-C36	15.290	(13.326-17.253)		2092081	353.0	
A 10 C22-C40	15.392	(11.970-18.814)		2936219	331.3	
A 41 C23-C40	15.627	(12.440-18.814)		3144075	363.2	
A 8 C24-C40	15.853	(12.891-18.814)		3035448	362.8	
56 Dotriacontane	15.949	15.979	-0.030	79731	NC	
A 51 C28-C40	16.677	(14.540-18.814)		2478786	372.6	
A 63 C29-C40	16.866	(14.918-18.814)		2283107	374.5	
42 n-Hexatriacontane	17.262	17.253	0.009	1717805	NC	
43 C40		18.814			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

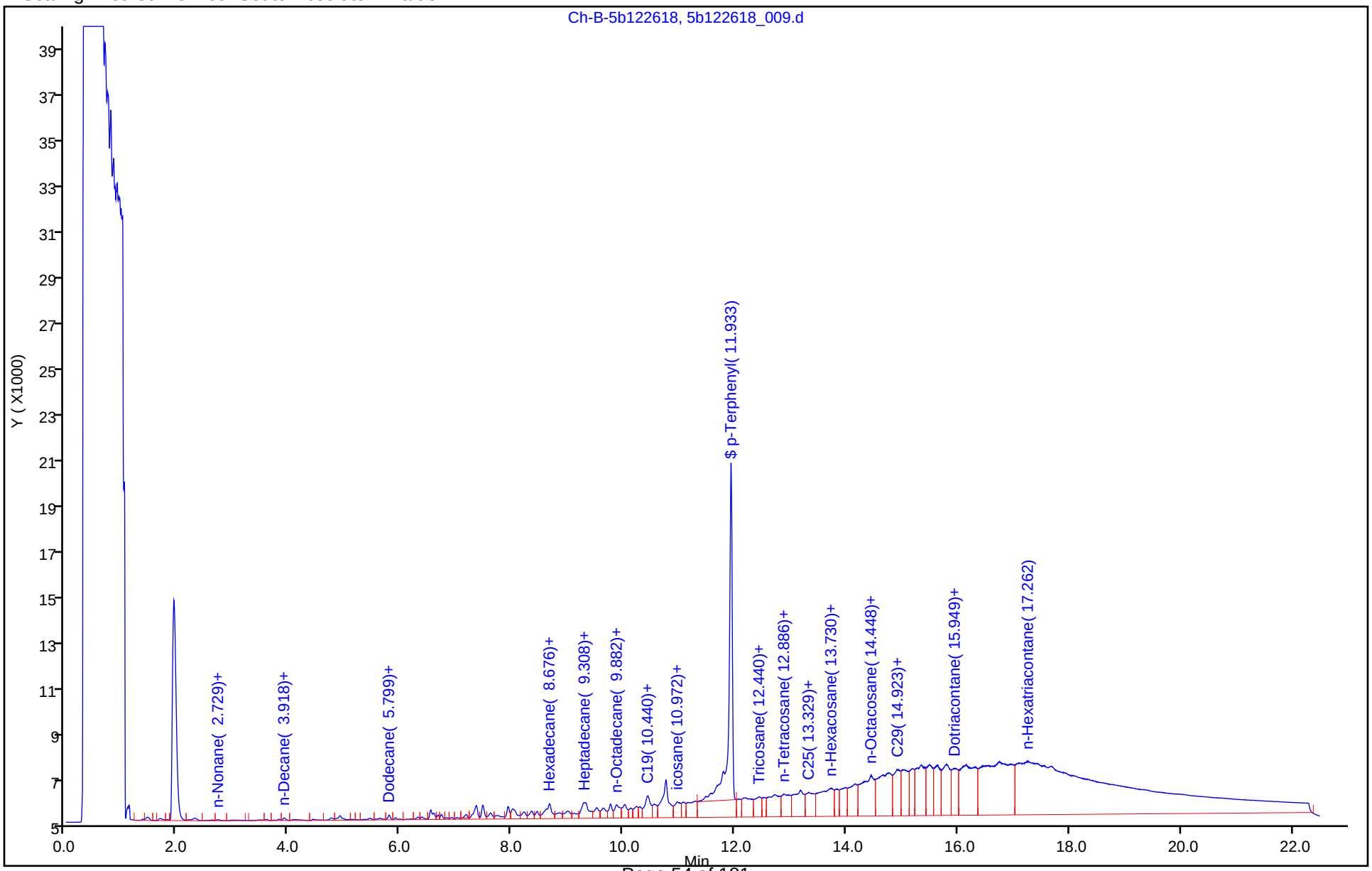
U - Marked Undetected

Report Date: 27-Dec-2018 13:27:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_009.d				
Injection Date:	26-Dec-2018 12:52:07	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-8-A	Lab Sample ID:	720-90446-8	Worklist Smp#:	9
Client ID:	DG-AI3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_009.d
Lims ID: 720-90446-E-8-A
Client ID: DG-AI3S-3.5-4
Sample Type: Client
Inject. Date: 26-Dec-2018 12:52:07 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0055838-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 13:27:07 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 13:27:07

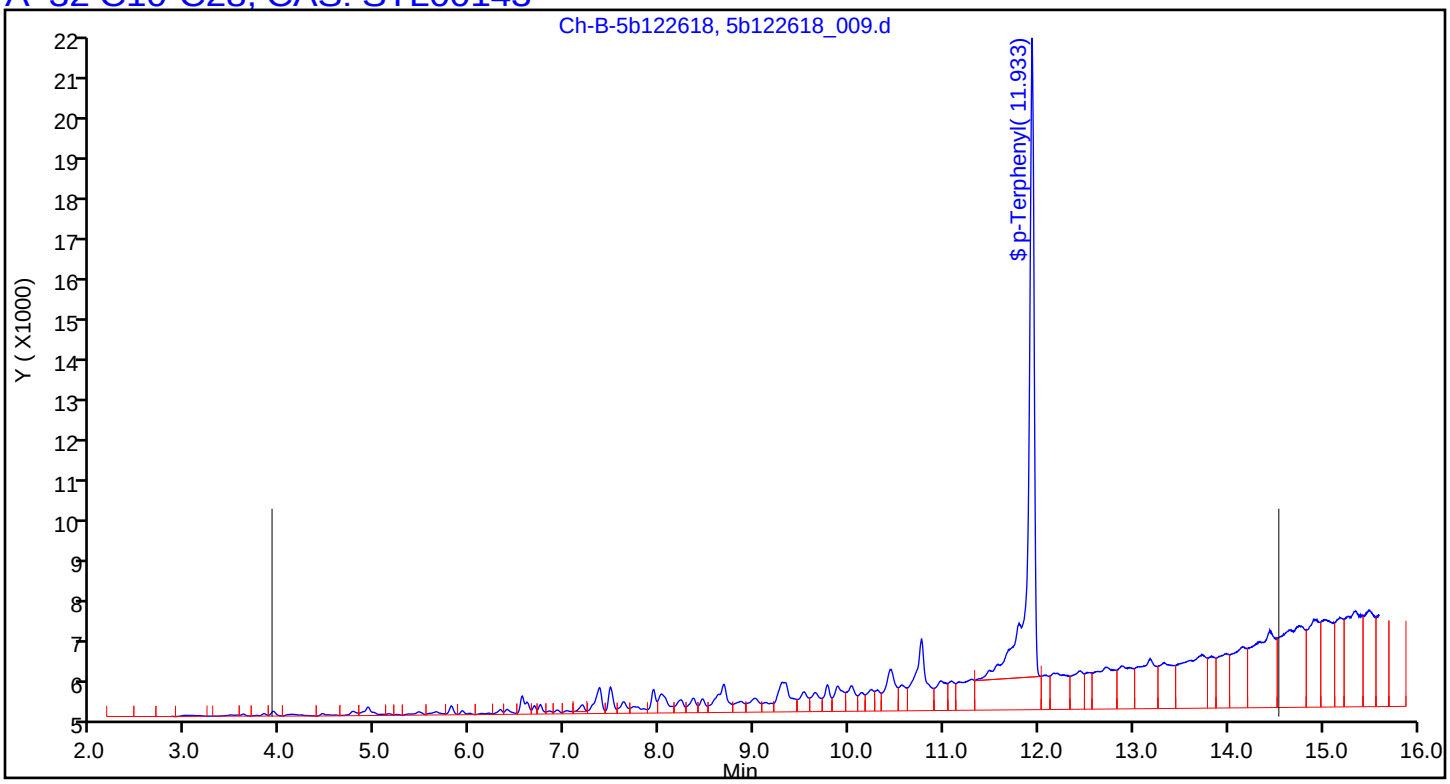
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.1	100.29

Report Date: 27-Dec-2018 13:27:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_009.d				
Injection Date:	26-Dec-2018 12:52:07	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-8-A	Lab Sample ID:	720-90446-8		
Client ID:	DG-AI3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

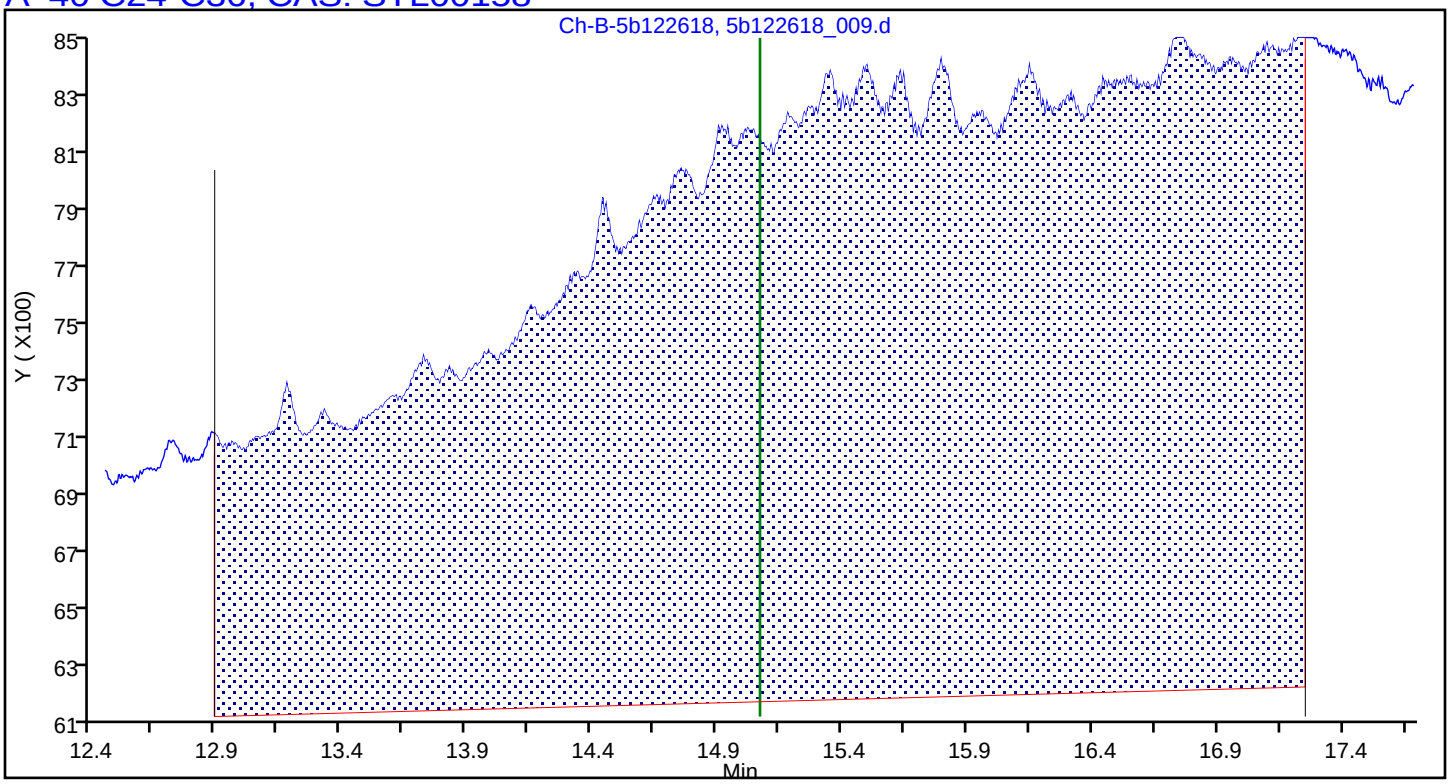


Report Date: 27-Dec-2018 13:27:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_009.d				
Injection Date:	26-Dec-2018 12:52:07	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-8-A	Lab Sample ID:	720-90446-8		
Client ID:	DG-AI3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

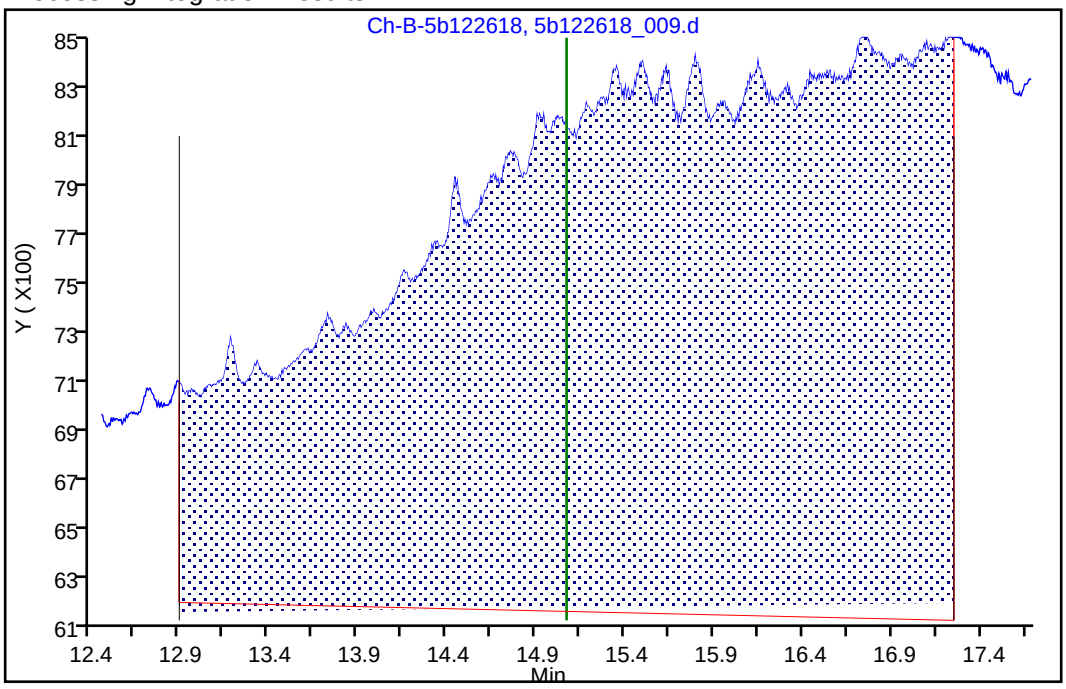
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_009.d				
Injection Date:	26-Dec-2018 12:52:07	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-8-A	Lab Sample ID:	720-90446-8		
Client ID:	DG-AI3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.072, CAS: STL00158

Signal: 1

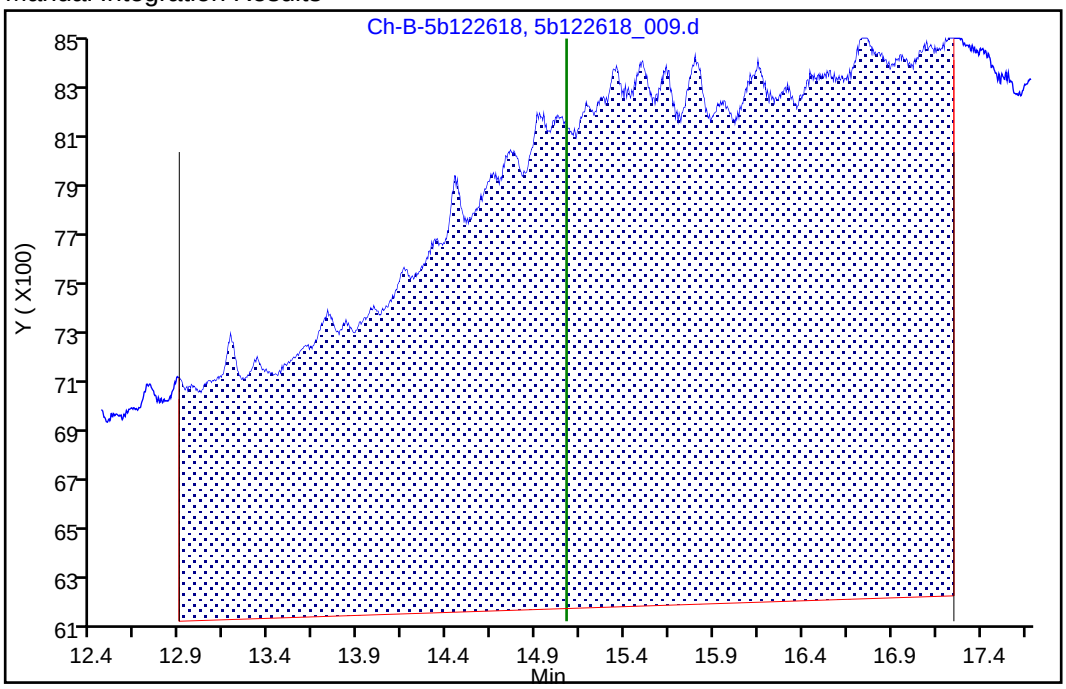
Processing Integration Results

RT: 15.07
Response: 2211828
Amount: 352.9498



Manual Integration Results

RT: 15.07
Response: 2234753
Amount: 356.6080



Reviewer: hayashid, 27-Dec-2018 13:27:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_007.d
Lims ID: 720-90446-E-9-A
Client ID: DG-AK3S-0.5-1
Sample Type: Client
Inject. Date: 26-Dec-2018 11:54:08 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0055838-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 10:07:02 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 10:07:29

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.724	2.691	0.033	629	NC	
	23 n-Decane	3.916	3.904	0.012	828	NC	
A	1 C9-C13	4.645	(2.691-6.599)		23248	1.84	
A	21 Stoddard Solvent	4.645	(2.691-6.599)		23248	2.05	
A	57 C10-C12	4.851	(3.904-5.799)		11882	1.21	
	24 Dodecane	5.798	5.799	-0.001	1060	NC	
A	3 C9 - C17	5.998	(2.691-9.306)		61179	4.33	M
A	47 C9 - C18	6.287	(2.691-9.883)		87340	7.78	M
A	60 C10-C16	6.289	(3.904-8.675)		42963	3.44	M
A	15 Kerosene	6.564	(2.691-10.437)		134997	12.0	M
A	25 C9-C19	6.564	(2.691-10.437)		134997	9.53	M
	26 C13	6.551	6.599	-0.048	1957	NC	
$	27 n-Decanoic Acid (Surr)		7.214			ND	U
A	59 C12-C16	7.237	(5.799-8.675)		32141	3.27	M
A	62 C10-C20	7.437	(3.904-10.971)		240920	24.5	M
A	28 C9-C24	7.791	(2.691-12.891)		626803	63.8	M
A	29 C9-C25	8.009	(2.691-13.326)		678023	69.1	M
A	54 C10-C23	8.172	(3.904-12.440)		544381	55.4	M
A	4 C10-C24	8.397	(3.904-12.891)		619985	63.1	M
A	16 C10-C25	8.615	(3.904-13.326)		671205	68.4	M
	45 Hexadecane	8.663	8.675	-0.012	622	NC	M
A	14 C10-C26	8.825	(3.904-13.745)		756242	77.0	M
A	67 C12-C22	8.885	(5.799-11.970)		472188	48.1	M
A	5 Diesel	9.222	(3.904-14.540)		1000733	101.9	M
A	32 C10-C28	9.222	(3.904-14.540)		1000733	101.9	M
A	12 Unknown Hydrocarbons	9.222	(3.904-14.540)		1000733	NC	M
A	30 C13-C22	9.284	(6.599-11.970)		468537	47.7	M
	44 Heptadecane	9.323	9.306	0.017	7375	NC	M
A	31 C12-C24	9.345	(5.799-12.891)		609163	62.0	M
	49 n-Octadecane	9.933	9.883	0.050	5885	NC	M
A	52 Mineral oil	9.972	(2.691-17.253)		2493745	229.5	
A	9 Crude Oil Range Organics (	9.972	(2.691-17.253)		2493745	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.972	(2.691-17.253)		2441356	NC	M
33 C19	10.433	10.437	-0.004	12518	NC	M
A 64 C13-C28	10.569	(6.599-14.540)		986260	100.5	M
A 17 C10-C36	10.578	(3.904-17.253)		2434538	248.0	M
A 13 C9-C40	10.752	(2.691-18.814)		2946586	291.4	
A 68 Crude Oil Range Organics (	10.752	(2.691-18.814)		2946586	NC	
A 58 C16-C24	10.783	(8.675-12.891)		577644	58.8	M
61 icosane	11.000	10.971	0.029	18986	NC	M
A 6 C10-C40	11.359	(3.904-18.814)		2937872	290.9	
$ 34 p-Terphenyl	11.937	11.938	-0.001	264052	21.0	
35 n-Docosane		11.970			ND	
A 18 C12-C40	12.306	(5.799-18.814)		2917579	289.9	
36 Tricosane	12.437	12.440	-0.003	23534	NC	M
A 66 C13-C40	12.706	(6.599-18.814)		2763321	278.6	
37 n-Tetracosane	12.890	12.891	-0.001	29129	NC	M
A 2 C16-C36 ORO	12.964	(8.675-17.253)		1865911	252.9	
38 C25	13.330	13.326	0.004	31724	NC	M
A 19 C16-C40	13.744	(8.675-18.814)		2842765	284.0	
46 n-Hexacosane	13.750	13.745	0.005	24593	NC	M
A 20 C19-C36	13.845	(10.437-17.253)		1761034	225.8	
A 55 C23-C32	14.210	(12.440-15.979)		1047430	243.2	
39 n-Octacosane	14.537	14.540	-0.003	27677	NC	M
65 C29	14.917	14.918	-0.001	70205	NC	M
A 40 C24-C36	15.072	(12.891-17.253)		1514850	241.7	
A 7 Motor Oil	15.072	(12.891-17.253)		1514850	241.7	
A 50 C25-C36	15.290	(13.326-17.253)		1435424	242.2	
A 10 C22-C40	15.392	(11.970-18.814)		1793399	202.3	
A 41 C23-C40	15.627	(12.440-18.814)		1975886	228.3	
A 8 C24-C40	15.853	(12.891-18.814)		1903575	227.5	
56 Dotriacontane	15.937	15.979	-0.042	77486	NC	M
A 51 C28-C40	16.677	(14.540-18.814)		1519984	228.5	
A 63 C29-C40	16.866	(14.918-18.814)		1379340	226.2	
42 n-Hexatriacontane		17.253			ND	
43 C40		18.814			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

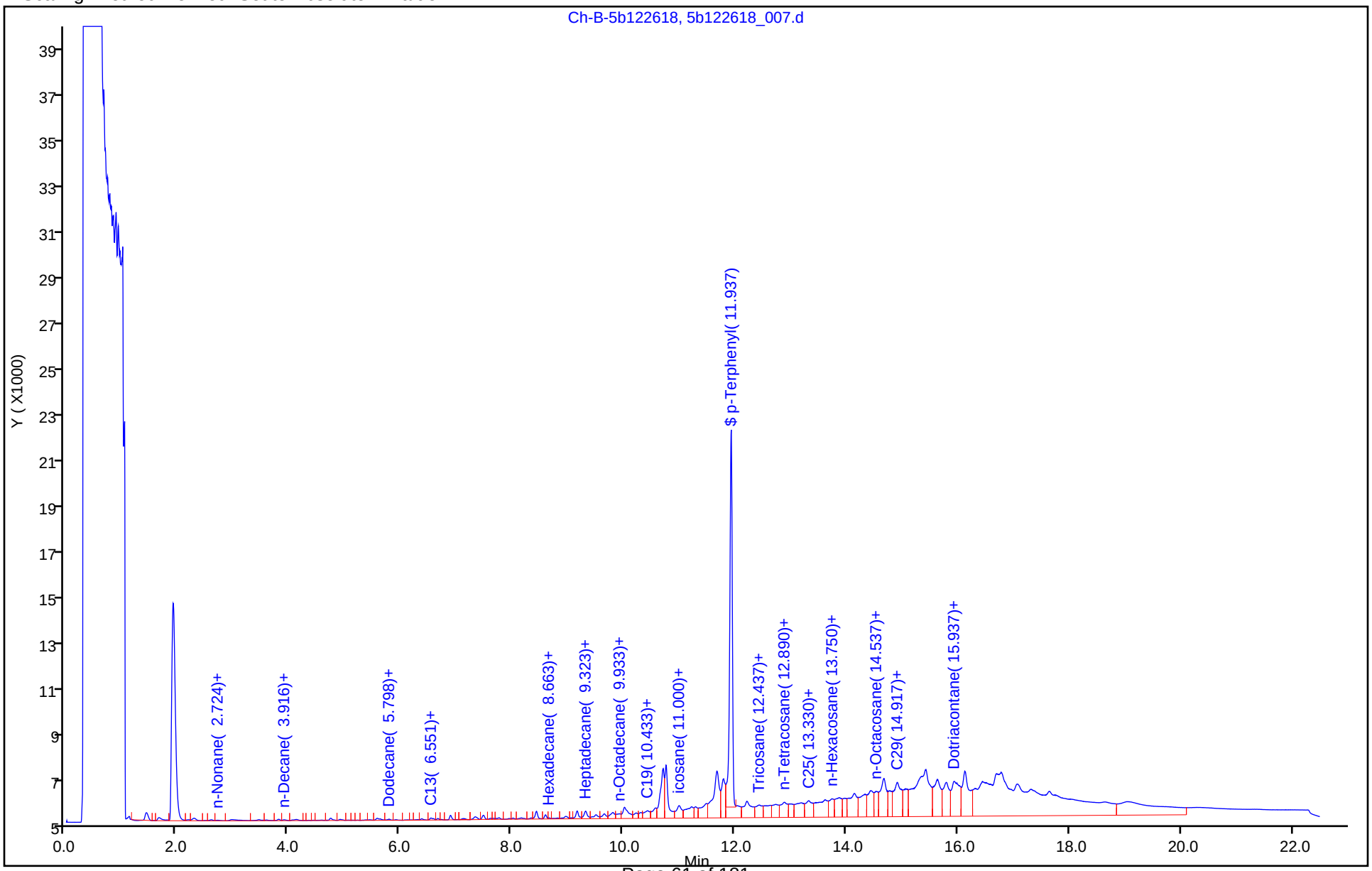
U - Marked Undetected

Report Date: 27-Dec-2018 10:07:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_007.d				
Injection Date:	26-Dec-2018 11:54:08	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-9-A	Lab Sample ID:	720-90446-9	Worklist Smp#:	7
Client ID:	DG-AK3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_007.d				
Lims ID:	720-90446-E-9-A				
Client ID:	DG-AK3S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Dec-2018 11:54:08	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 136 Name: 720-0055838-007				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	27-Dec-2018 10:07:02	Calib Date:	26-Dec-2018 09:13:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0318				
First Level Reviewer: hayashid		Date:	27-Dec-2018 10:07:29		

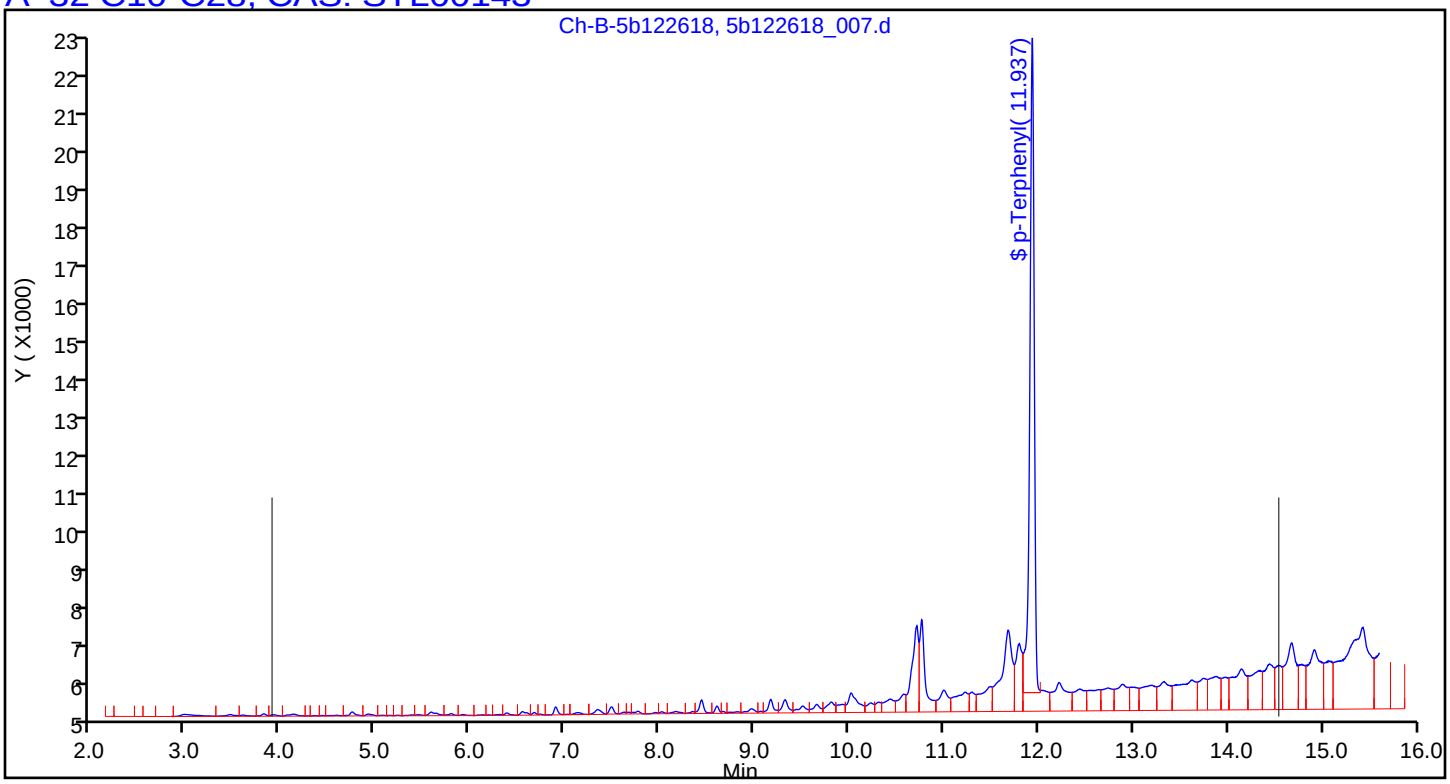
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	21.0	83.88

Report Date: 27-Dec-2018 10:07:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_007.d				
Injection Date:	26-Dec-2018 11:54:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-9-A	Lab Sample ID:	720-90446-9		
Client ID:	DG-AK3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

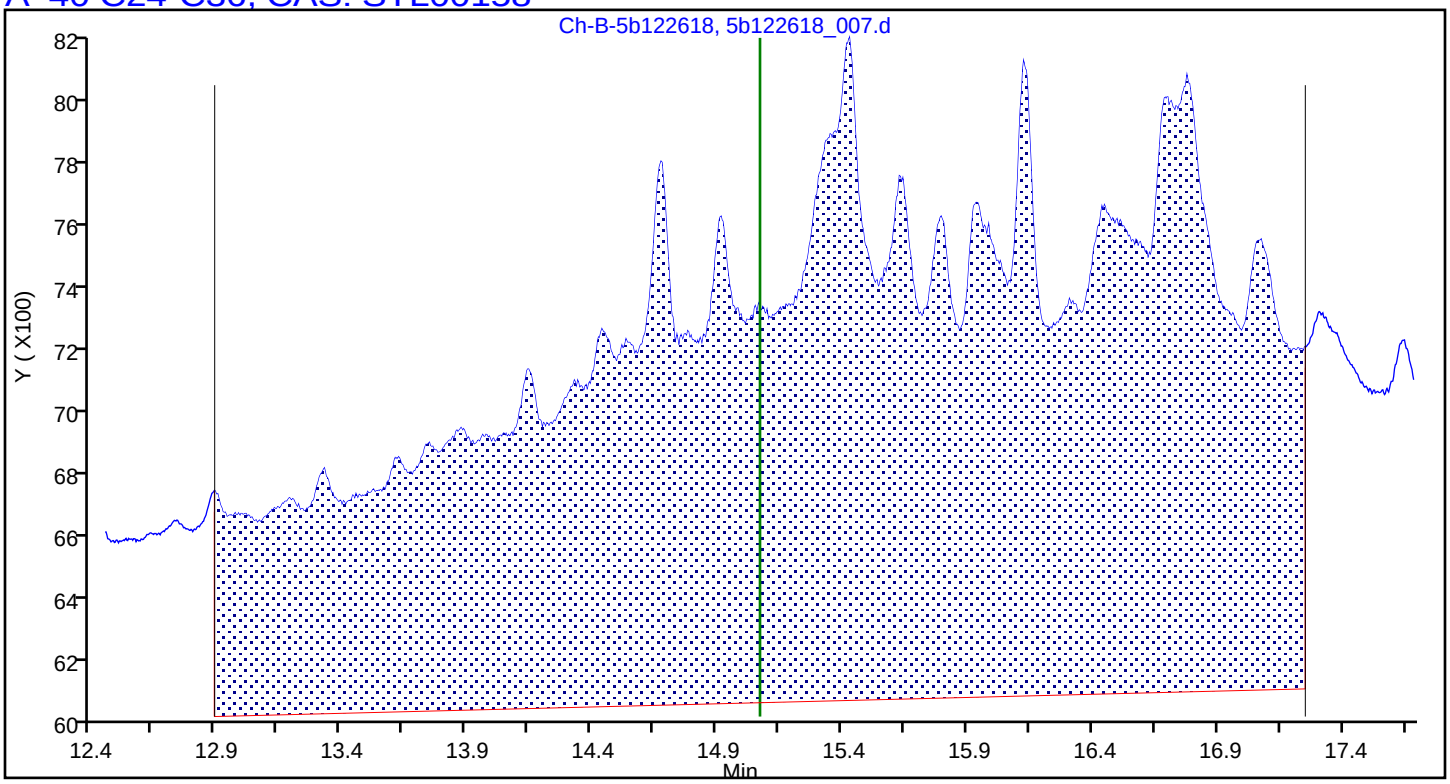


Report Date: 27-Dec-2018 10:07:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_007.d				
Injection Date:	26-Dec-2018 11:54:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-9-A	Lab Sample ID:	720-90446-9		
Client ID:	DG-AK3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

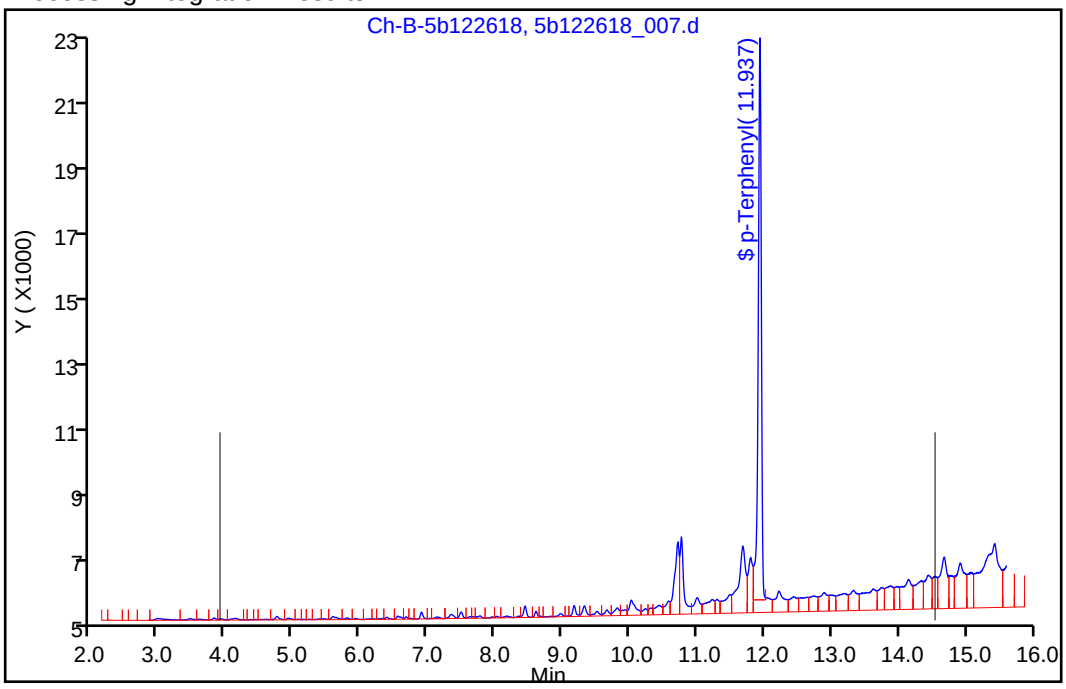
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_007.d				
Injection Date:	26-Dec-2018 11:54:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-9-A	Lab Sample ID:	720-90446-9		
Client ID:	DG-AK3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.222, CAS: STL00143

Signal: 1

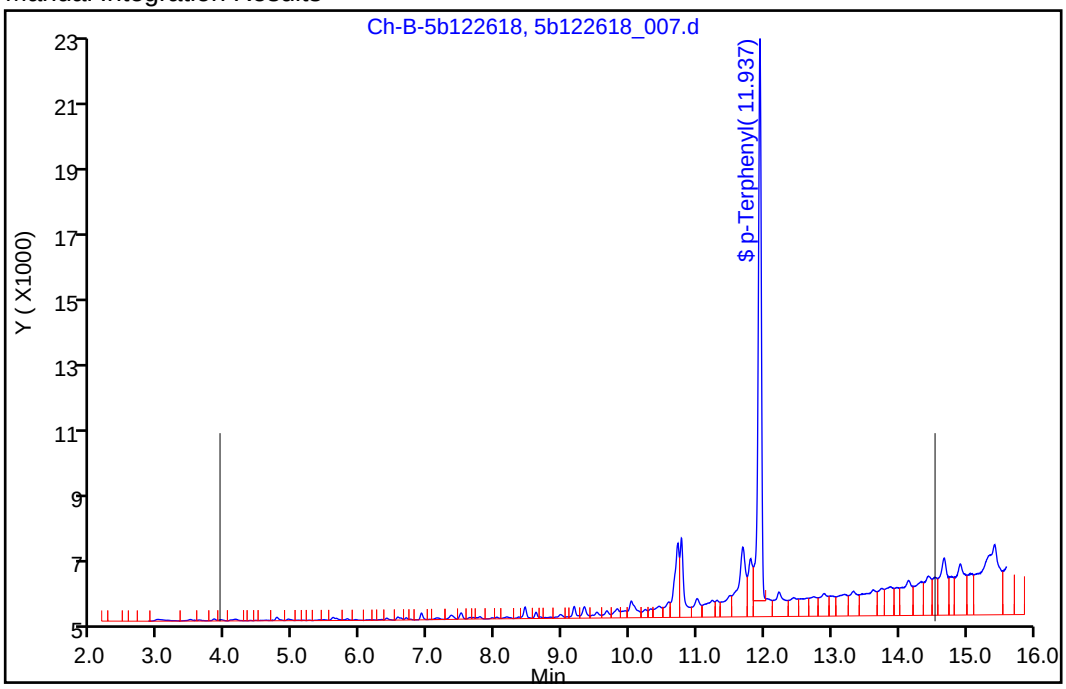
Processing Integration Results

RT: 9.22
Response: 803259
Amount: 81.813133



Manual Integration Results

RT: 9.22
Response: 1000733
Amount: 101.9262



Reviewer: hayashid, 27-Dec-2018 10:06:56

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_010.d
Lims ID: 720-90446-E-10-A
Client ID: DG-AK3S-3.5-4
Sample Type: Client
Inject. Date: 26-Dec-2018 13:21:04 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 137 Name: 720-0055838-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 13:27:55 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 13:27:55

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.721	2.691	0.030	725	NC	
	23 n-Decane	3.915	3.904	0.011	1510	NC	
A	1 C9-C13	4.645	(2.691-6.599)		57112	4.51	
A	21 Stoddard Solvent	4.645	(2.691-6.599)		57112	5.02	
A	57 C10-C12	4.851	(3.904-5.799)		27879	2.84	
	24 Dodecane	5.798	5.799	-0.001	3533	NC	
A	3 C9 - C17	5.998	(2.691-9.306)		304217	21.5	
A	47 C9 - C18	6.287	(2.691-9.883)		438755	39.1	
A	60 C10-C16	6.289	(3.904-8.675)		247552	19.8	
A	15 Kerosene	6.564	(2.691-10.437)		535439	47.6	
A	25 C9-C19	6.564	(2.691-10.437)		535439	37.8	
	26 C13		6.599			ND	
$	27 n-Decanoic Acid (Surr)		7.214			ND	U
A	59 C12-C16	7.237	(5.799-8.675)		223206	22.7	
A	62 C10-C20	7.437	(3.904-10.971)		675513	68.8	
A	28 C9-C24	7.791	(2.691-12.891)		1357560	138.3	
A	29 C9-C25	8.009	(2.691-13.326)		1467410	149.5	
A	54 C10-C23	8.172	(3.904-12.440)		1194842	121.7	
A	4 C10-C24	8.397	(3.904-12.891)		1347661	137.3	
A	16 C10-C25	8.615	(3.904-13.326)		1457511	148.4	
	45 Hexadecane	8.674	8.675	-0.001	12109	NC	
A	14 C10-C26	8.825	(3.904-13.745)		1674479	170.5	
A	67 C12-C22	8.885	(5.799-11.970)		942102	96.0	
A	5 Diesel	9.222	(3.904-14.540)		1975789	201.2	
A	32 C10-C28	9.222	(3.904-14.540)		1975789	201.2	
A	12 Unknown Hydrocarbons	9.222	(3.904-14.540)		1975789	NC	
A	30 C13-C22	9.284	(6.599-11.970)		927267	94.4	
	44 Heptadecane	9.321	9.306	0.015	44461	NC	
A	31 C12-C24	9.345	(5.799-12.891)		1323315	134.8	
	49 n-Octadecane	9.875	9.883	-0.008	25087	NC	
A	52 Mineral oil	9.972	(2.691-17.253)		4048305	372.6	
A	9 Crude Oil Range Organics (	9.972	(2.691-17.253)		4048305	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.972	(2.691-17.253)		4482904	NC	
33 C19	10.436	10.437	-0.001	37019	NC	
A 64 C13-C28	10.569	(6.599-14.540)		1936608	197.2	
A 17 C10-C36	10.578	(3.904-17.253)		4473005	455.6	
A 13 C9-C40	10.752	(2.691-18.814)		4771982	472.0	
A 68 Crude Oil Range Organics (	10.752	(2.691-18.814)		4771982	NC	
A 58 C16-C24	10.783	(8.675-12.891)		1112218	113.3	
61 icosane	10.968	10.971	-0.003	46053	NC	
A 6 C10-C40	11.359	(3.904-18.814)		4758401	471.2	
$ 34 p-Terphenyl	11.933	11.938	-0.005	245497	19.5	
35 n-Docosane	12.070	11.970	0.100	45123	NC	
A 18 C12-C40	12.306	(5.799-18.814)		4711411	468.1	
36 Tricosane	12.434	12.440	-0.006	48885	NC	
A 66 C13-C40	12.706	(6.599-18.814)		4221694	425.6	
37 n-Tetracosane	12.887	12.891	-0.004	63223	NC	
A 2 C16-C36 ORO	12.964	(8.675-17.253)		2724324	369.2	
38 C25	13.327	13.326	0.001	58052	NC	
A 19 C16-C40	13.744	(8.675-18.814)		4429076	442.5	
46 n-Hexacosane	13.738	13.745	-0.007	71039	NC	
A 20 C19-C36	13.845	(10.437-17.253)		2505562	321.3	
A 55 C23-C32	14.210	(12.440-15.979)		1491554	346.3	
39 n-Octacosane	14.546	14.540	0.006	45494	NC	
65 C29	14.920	14.918	0.002	140921	NC	
A 40 C24-C36	15.072	(12.891-17.253)		2109032	336.5	M
A 7 Motor Oil	15.072	(12.891-17.253)		2049427	327.0	
A 50 C25-C36	15.290	(13.326-17.253)		1901685	320.9	
A 10 C22-C40	15.392	(11.970-18.814)		2677833	302.1	
A 41 C23-C40	15.627	(12.440-18.814)		2772932	320.3	
A 8 C24-C40	15.853	(12.891-18.814)		2636214	315.0	
56 Dotriacontane	15.935	15.979	-0.044	77715	NC	
A 51 C28-C40	16.677	(14.540-18.814)		2018102	303.3	
A 63 C29-C40	16.866	(14.918-18.814)		1839865	301.8	
42 n-Hexatriacontane		17.253			ND	
43 C40		18.814			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

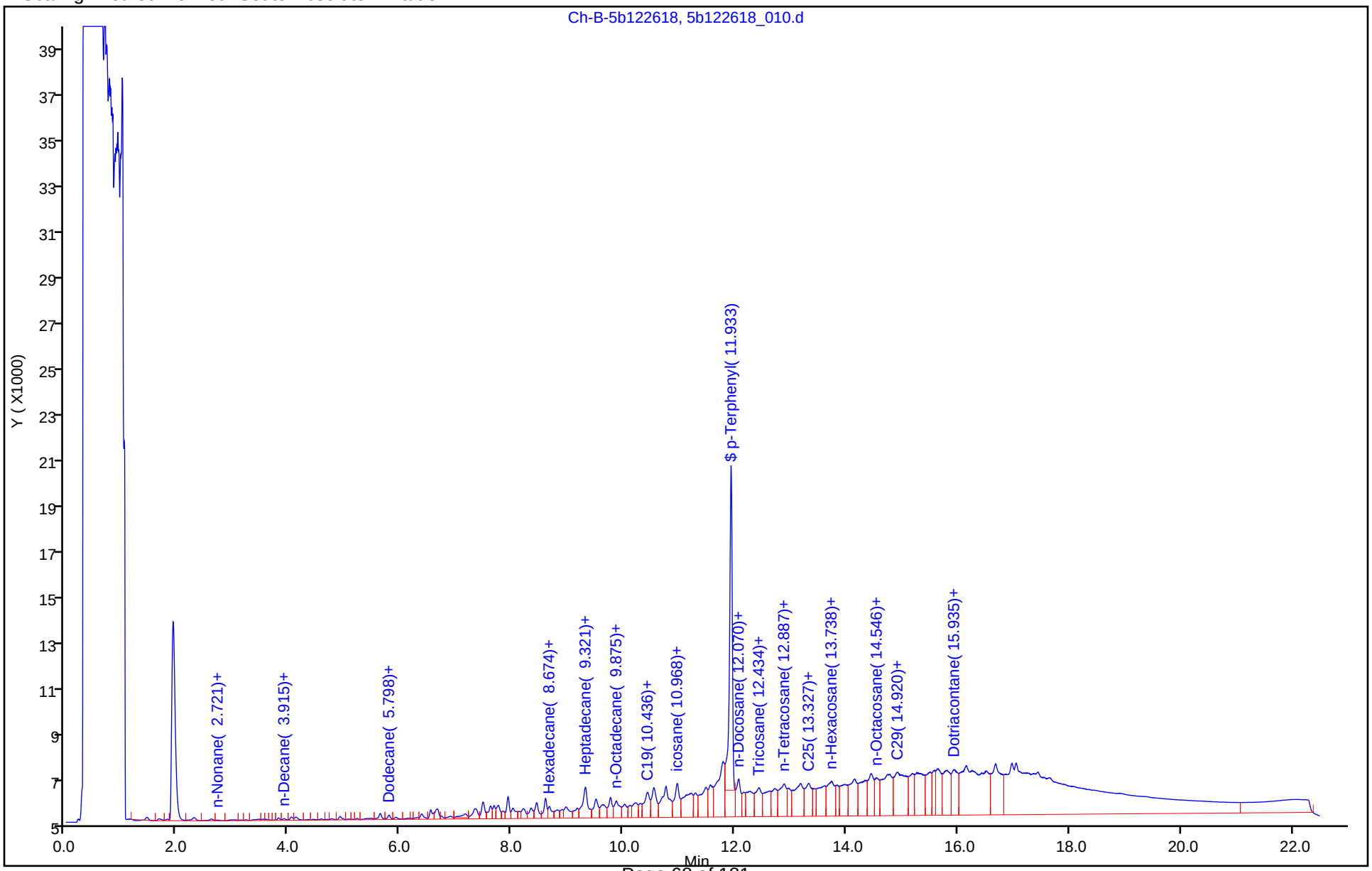
U - Marked Undetected

Report Date: 27-Dec-2018 13:27:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_010.d				
Injection Date:	26-Dec-2018 13:21:04	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-10-A	Lab Sample ID:	720-90446-10	Worklist Smp#:	10
Client ID:	DG-AK3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_010.d				
Lims ID:	720-90446-E-10-A				
Client ID:	DG-AK3S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Dec-2018 13:21:04	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 137 Name: 720-0055838-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	27-Dec-2018 13:27:55	Calib Date:	26-Dec-2018 09:13:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0318				
First Level Reviewer: hayashid		Date:	27-Dec-2018 13:27:55		

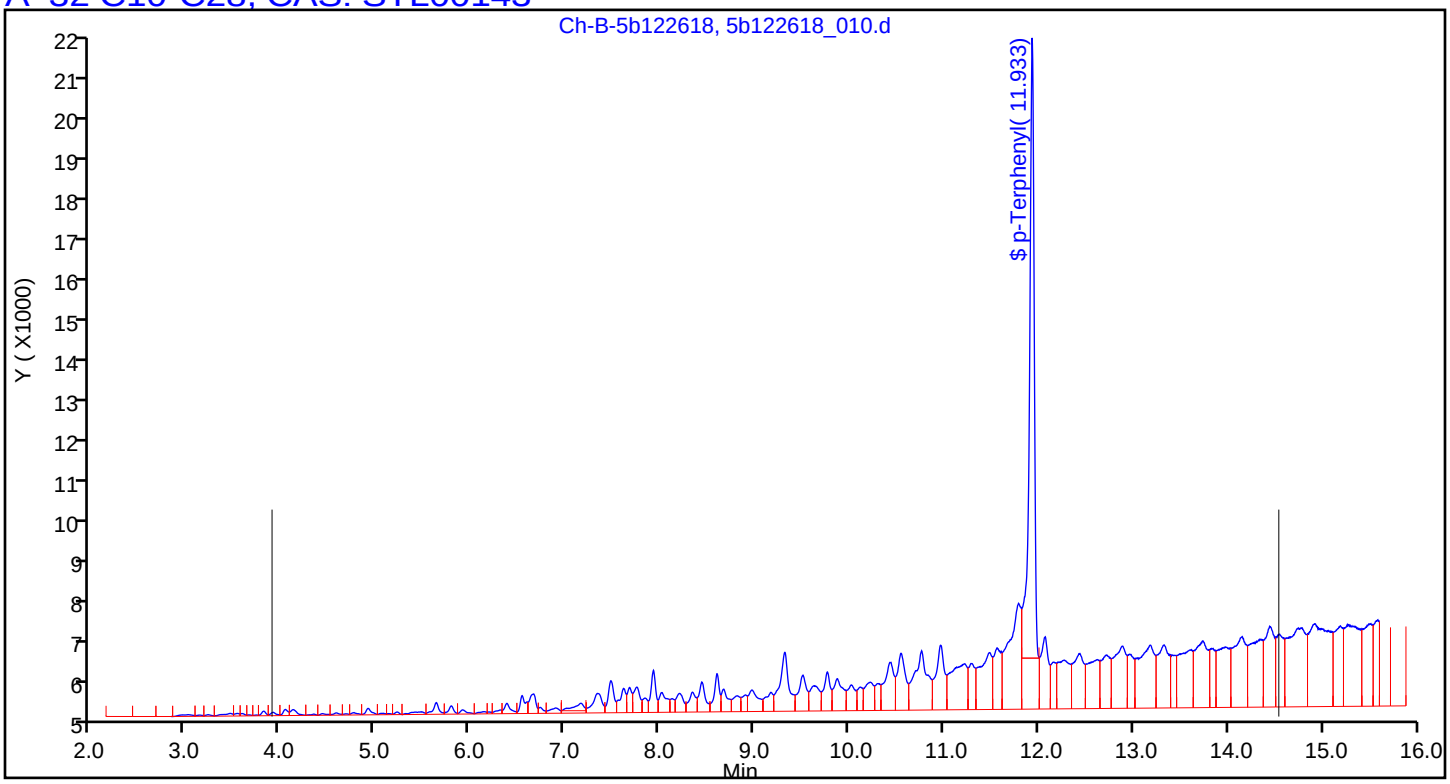
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	19.5	77.98

Report Date: 27-Dec-2018 13:27:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_010.d				
Injection Date:	26-Dec-2018 13:21:04	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-10-A	Lab Sample ID:	720-90446-10		
Client ID:	DG-AK3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

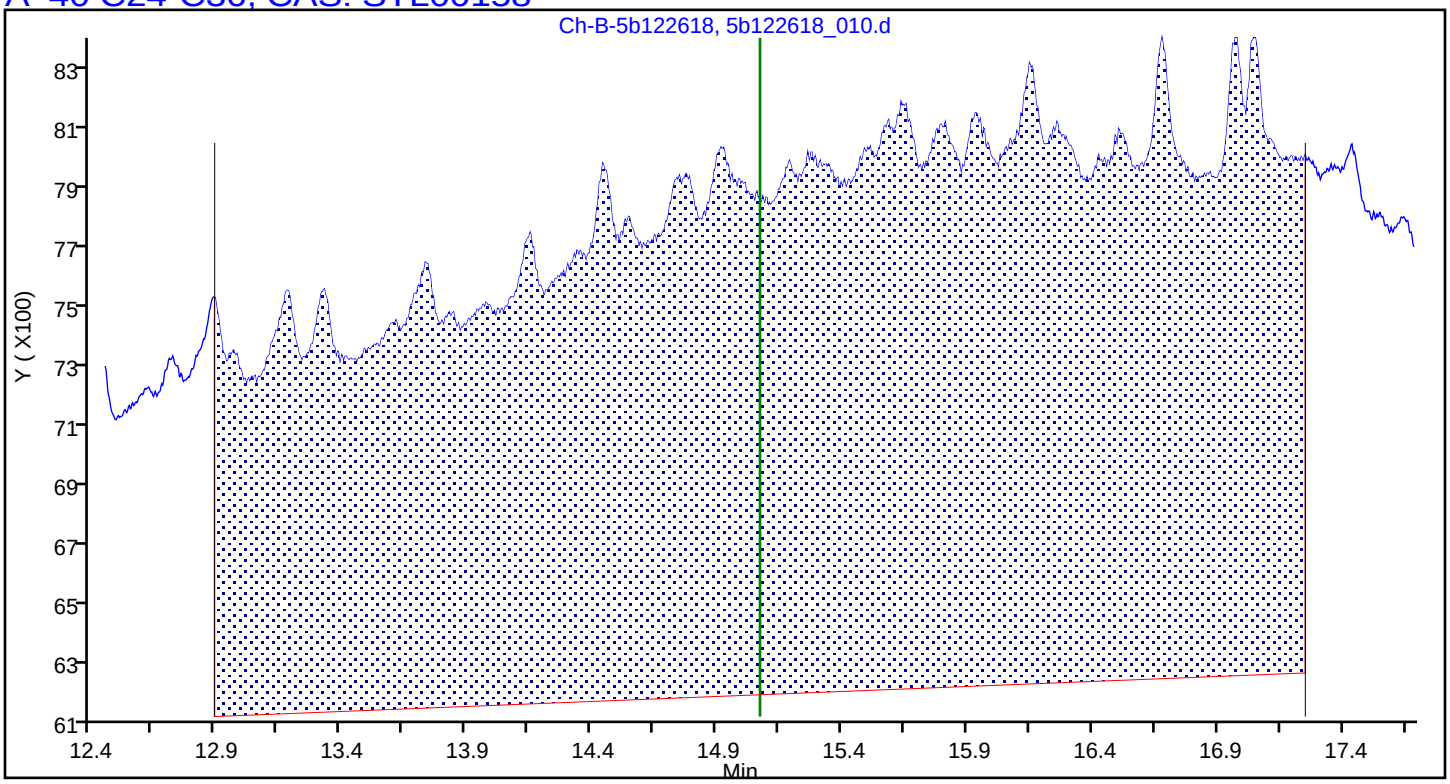


Report Date: 27-Dec-2018 13:27:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_010.d				
Injection Date:	26-Dec-2018 13:21:04	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-10-A	Lab Sample ID:	720-90446-10		
Client ID:	DG-AK3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

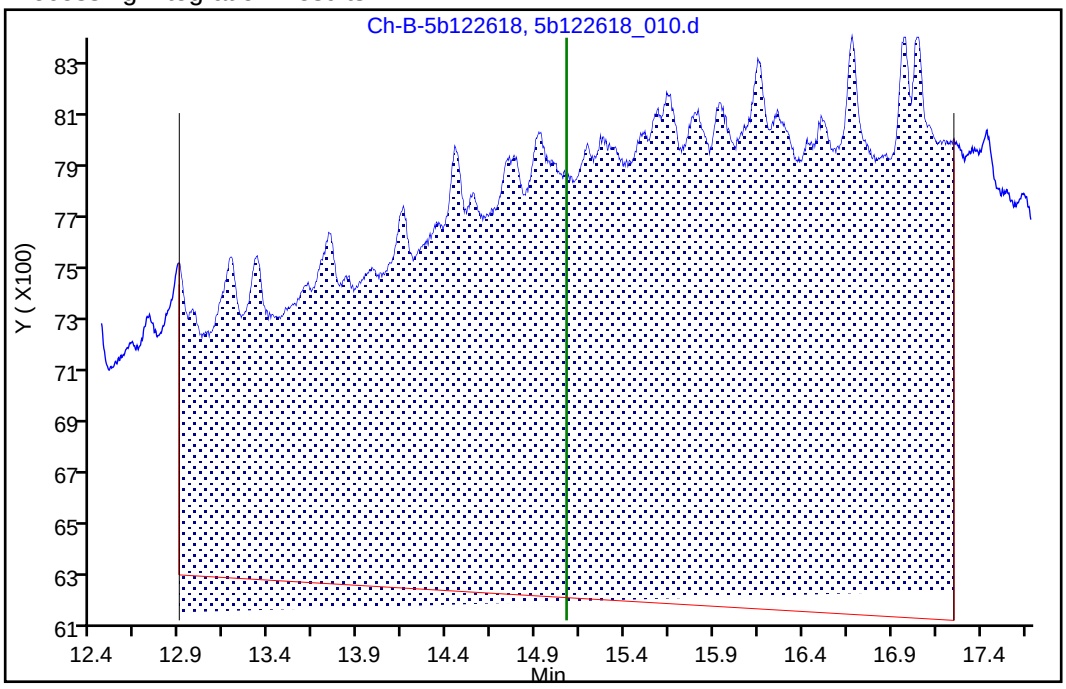
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_010.d				
Injection Date:	26-Dec-2018 13:21:04	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-10-A	Lab Sample ID:	720-90446-10		
Client ID:	DG-AK3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.072, CAS: STL00158

Signal: 1

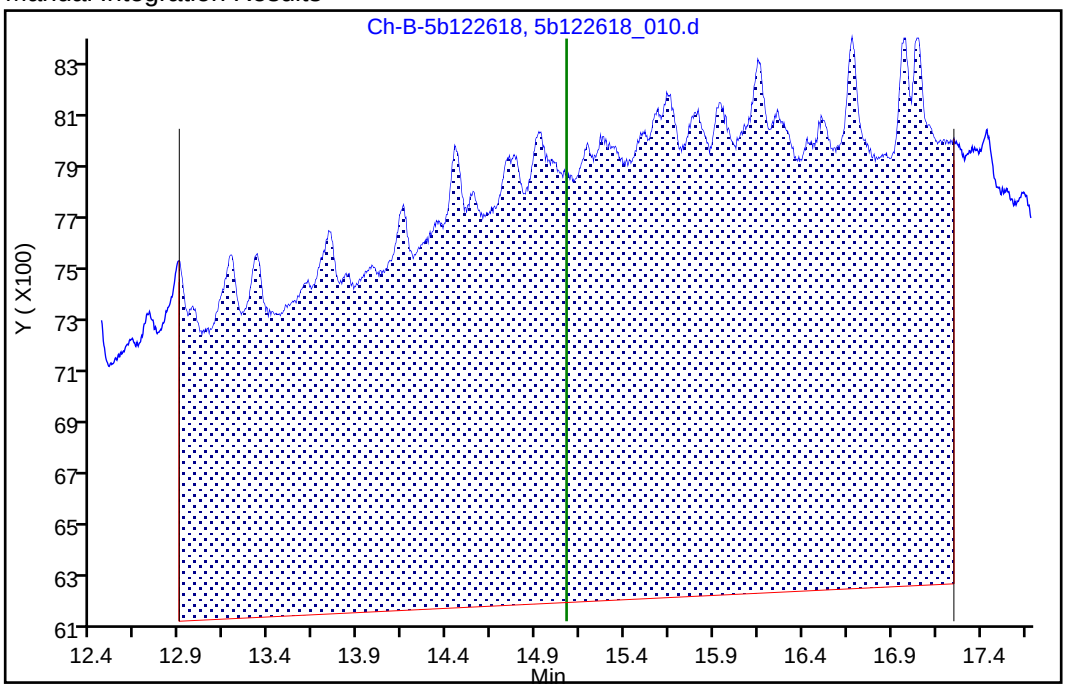
Processing Integration Results

RT: 15.07
Response: 2049427
Amount: 327.0349



Manual Integration Results

RT: 15.07
Response: 2109032
Amount: 336.5463



Reviewer: hayashid, 27-Dec-2018 13:27:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_011.d
Lims ID: 720-90446-E-11-A
Client ID: DUP-17
Sample Type: Client
Inject. Date: 26-Dec-2018 13:50:04 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 140 Name: 720-0055838-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 13:28:23 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 13:28:23

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.711	2.691	0.020	1441	NC	
	23 n-Decane	3.907	3.904	0.003	2668	NC	
A	1 C9-C13	4.645	(2.691-6.599)		82433	6.51	
A	21 Stoddard Solvent	4.645	(2.691-6.599)		82433	7.25	
A	57 C10-C12	4.851	(3.904-5.799)		41300	4.21	
	24 Dodecane	5.794	5.799	-0.005	5848	NC	
A	3 C9 - C17	5.998	(2.691-9.306)		379283	26.9	
A	47 C9 - C18	6.287	(2.691-9.883)		558451	49.8	
A	60 C10-C16	6.289	(3.904-8.675)		282467	22.6	
A	15 Kerosene	6.564	(2.691-10.437)		651384	57.9	
A	25 C9-C19	6.564	(2.691-10.437)		651384	46.0	
	26 C13		6.599			ND	
$	27 n-Decanoic Acid (Surr)		7.214			ND	U
A	59 C12-C16	7.237	(5.799-8.675)		247015	25.2	
A	62 C10-C20	7.437	(3.904-10.971)		861376	87.7	
A	28 C9-C24	7.791	(2.691-12.891)		1770337	180.3	
A	29 C9-C25	8.009	(2.691-13.326)		2117531	215.7	
A	54 C10-C23	8.172	(3.904-12.440)		1600025	163.0	
A	4 C10-C24	8.397	(3.904-12.891)		1761610	179.4	
A	16 C10-C25	8.615	(3.904-13.326)		2108804	214.8	
	45 Hexadecane	8.675	8.675	0.000	24152	NC	
A	14 C10-C26	8.825	(3.904-13.745)		2335419	237.9	
A	67 C12-C22	8.885	(5.799-11.970)		1250392	127.4	
A	5 Diesel	9.222	(3.904-14.540)		2851056	290.4	
A	32 C10-C28	9.222	(3.904-14.540)		2851056	290.4	
A	12 Unknown Hydrocarbons	9.222	(3.904-14.540)		2851056	NC	
A	30 C13-C22	9.284	(6.599-11.970)		1227939	125.1	
	44 Heptadecane	9.322	9.306	0.016	61392	NC	
A	31 C12-C24	9.345	(5.799-12.891)		1726158	175.8	
	49 n-Octadecane	9.880	9.883	-0.003	39874	NC	
A	52 Mineral oil	9.972	(2.691-17.253)		5897937	542.9	
A	9 Crude Oil Range Organics (	9.972	(2.691-17.253)		5897937	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.972	(2.691-17.253)		6864561	NC	
33 C19	10.437	10.437	0.000	61446	NC	
A 64 C13-C28	10.569	(6.599-14.540)		2793151	284.5	
A 17 C10-C36	10.578	(3.904-17.253)		6855834	698.3	
A 13 C9-C40	10.752	(2.691-18.814)		6828401	675.4	
A 68 Crude Oil Range Organics (	10.752	(2.691-18.814)		6828401	NC	
A 58 C16-C24	10.783	(8.675-12.891)		1479143	150.7	
61 icosane	10.972	10.971	0.001	50869	NC	
A 6 C10-C40	11.359	(3.904-18.814)		6815589	675.0	
$ 34 p-Terphenyl	11.937	11.938	-0.001	216938	17.2	
35 n-Docosane	12.051	11.970	0.081	36754	NC	
A 18 C12-C40	12.306	(5.799-18.814)		6758905	671.5	
36 Tricosane	12.439	12.440	-0.001	75878	NC	
A 66 C13-C40	12.706	(6.599-18.814)		6112256	616.3	
37 n-Tetracosane	12.895	12.891	0.004	115191	NC	
A 2 C16-C36 ORO	12.964	(8.675-17.253)		4052398	549.2	
38 C25	13.325	13.326	-0.001	93624	NC	
A 19 C16-C40	13.744	(8.675-18.814)		6442887	643.7	
46 n-Hexacosane	13.737	13.745	-0.008	95706	NC	
A 20 C19-C36	13.845	(10.437-17.253)		4229922	542.5	
A 55 C23-C32	14.210	(12.440-15.979)		2553123	592.7	
39 n-Octacosane	14.549	14.540	0.009	64147	NC	
65 C29	14.921	14.918	0.003	289374	NC	
A 40 C24-C36	15.072	(12.891-17.253)		3520421	561.8	M
A 7 Motor Oil	15.072	(12.891-17.253)		3403831	543.2	
A 50 C25-C36	15.290	(13.326-17.253)		3172055	535.2	
A 10 C22-C40	15.392	(11.970-18.814)		4388073	495.1	
A 41 C23-C40	15.627	(12.440-18.814)		4398469	508.1	
A 8 C24-C40	15.853	(12.891-18.814)		4183599	500.0	
56 Dotriacontane	15.985	15.979	0.006	338087	NC	
A 51 C28-C40	16.677	(14.540-18.814)		3175094	477.2	
A 63 C29-C40	16.866	(14.918-18.814)		2849083	467.3	
42 n-Hexatriacontane		17.253			ND	
43 C40		18.814			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

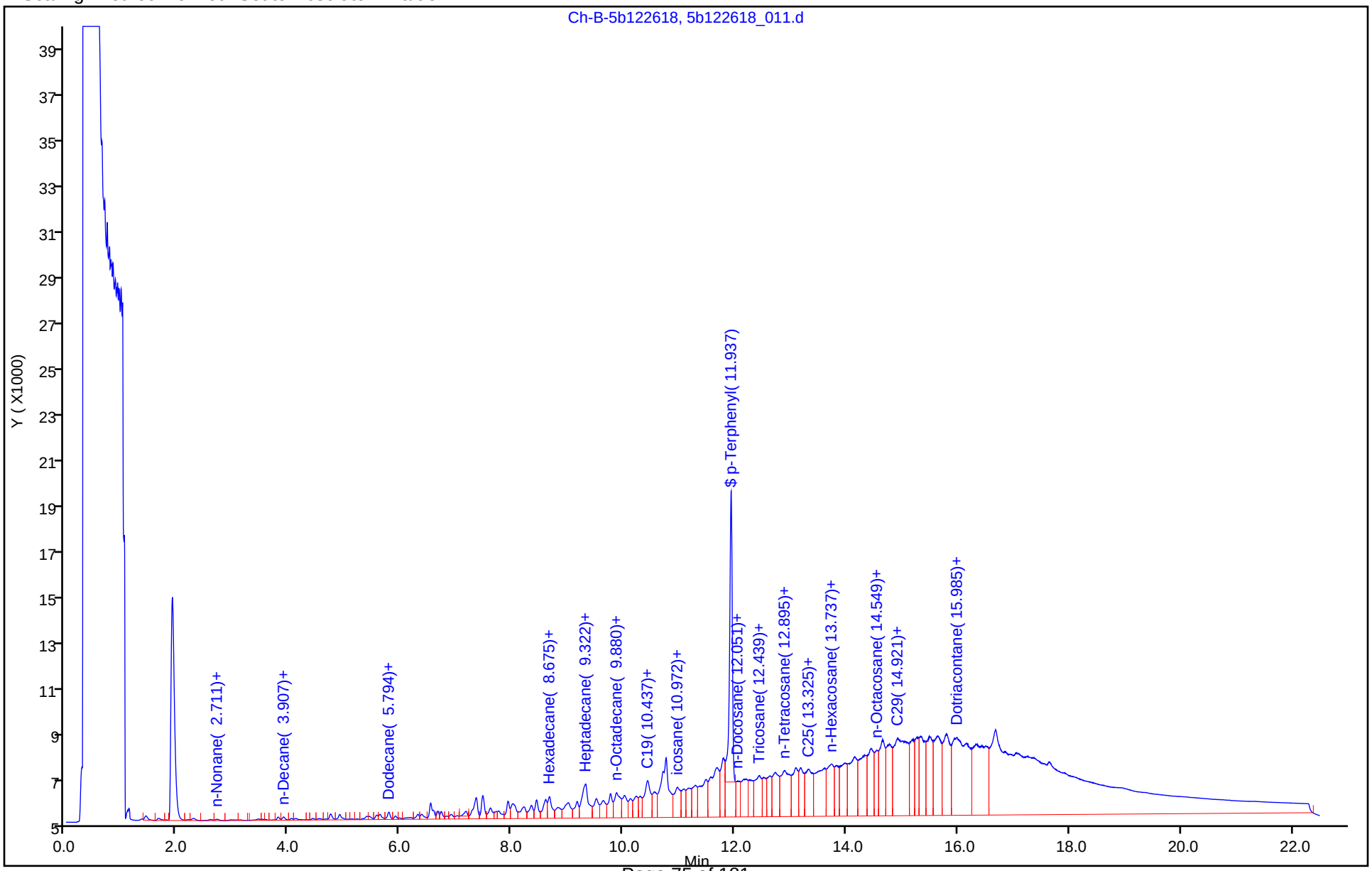
U - Marked Undetected

Report Date: 27-Dec-2018 13:28:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_011.d				
Injection Date:	26-Dec-2018 13:50:04	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-11-A	Lab Sample ID:	720-90446-11	Worklist Smp#:	11
Client ID:	DUP-17				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_011.d
Lims ID: 720-90446-E-11-A
Client ID: DUP-17
Sample Type: Client
Inject. Date: 26-Dec-2018 13:50:04 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 140 Name: 720-0055838-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 13:28:23 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 13:28:23

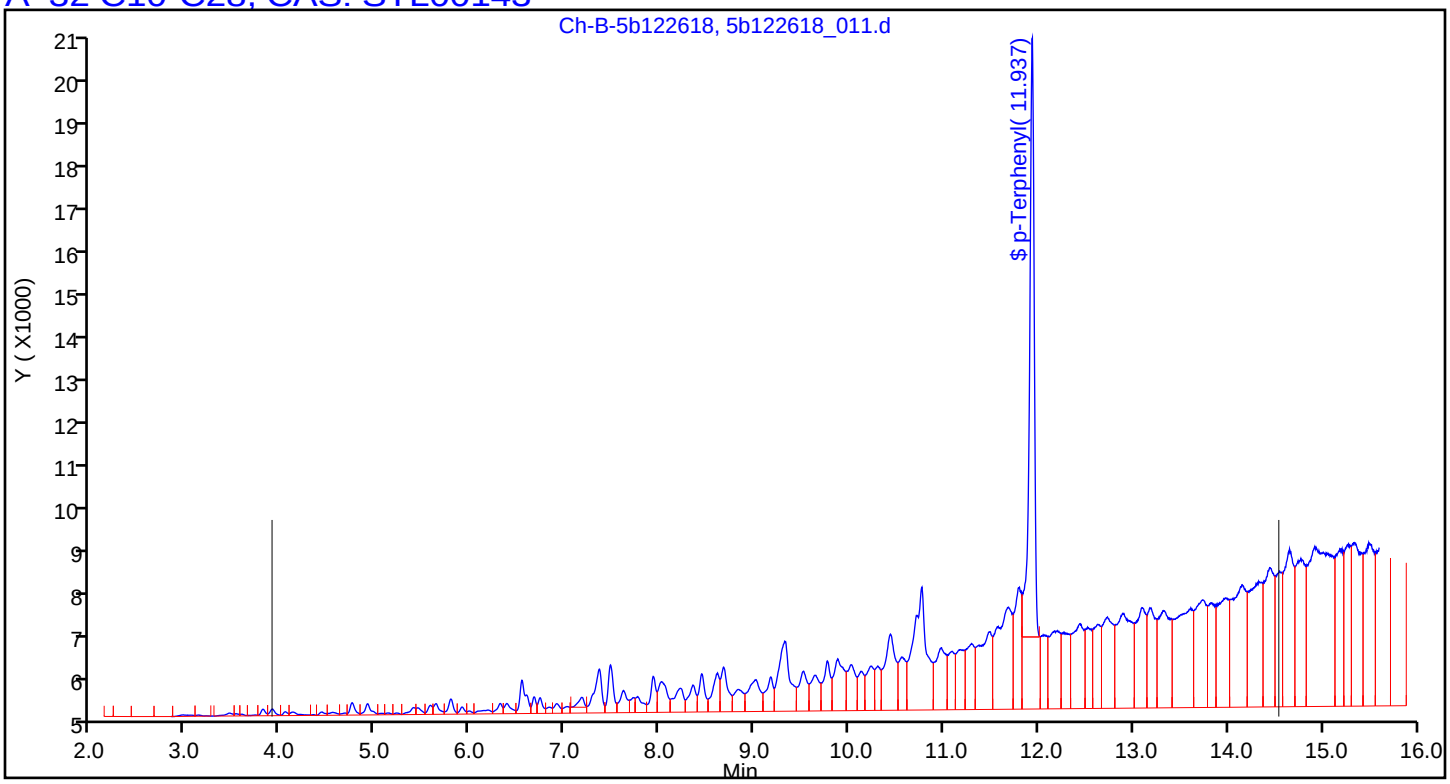
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	17.2	68.91

Report Date: 27-Dec-2018 13:28:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_011.d				
Injection Date:	26-Dec-2018 13:50:04	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-11-A	Lab Sample ID:	720-90446-11		
Client ID:	DUP-17				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

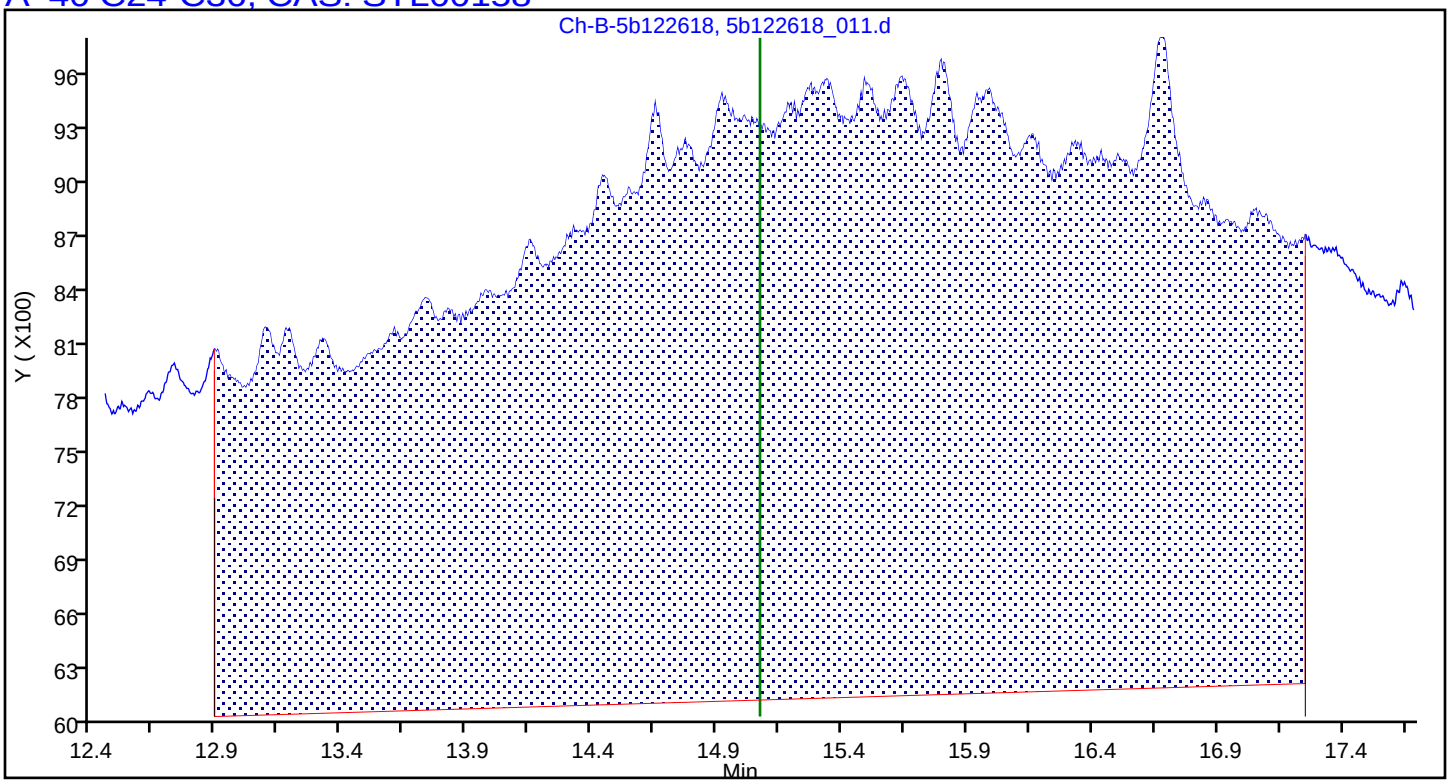


Report Date: 27-Dec-2018 13:28:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_011.d				
Injection Date:	26-Dec-2018 13:50:04	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-11-A	Lab Sample ID:	720-90446-11		
Client ID:	DUP-17				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

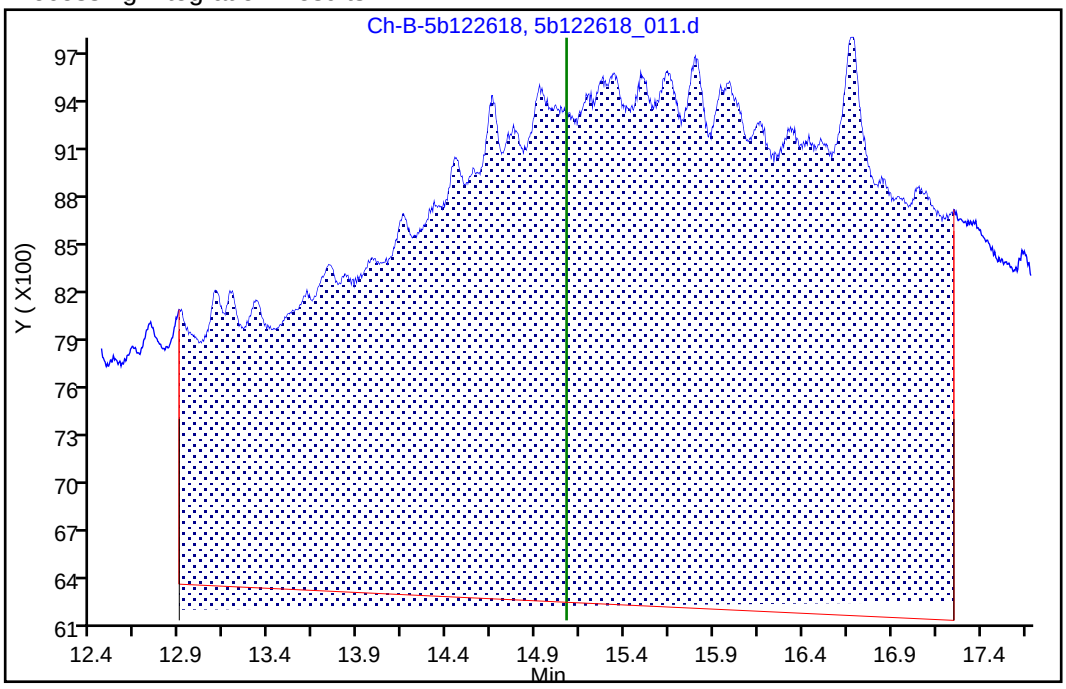
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_011.d				
Injection Date:	26-Dec-2018 13:50:04	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-11-A	Lab Sample ID:	720-90446-11		
Client ID:	DUP-17				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.072, CAS: STL00158

Signal: 1

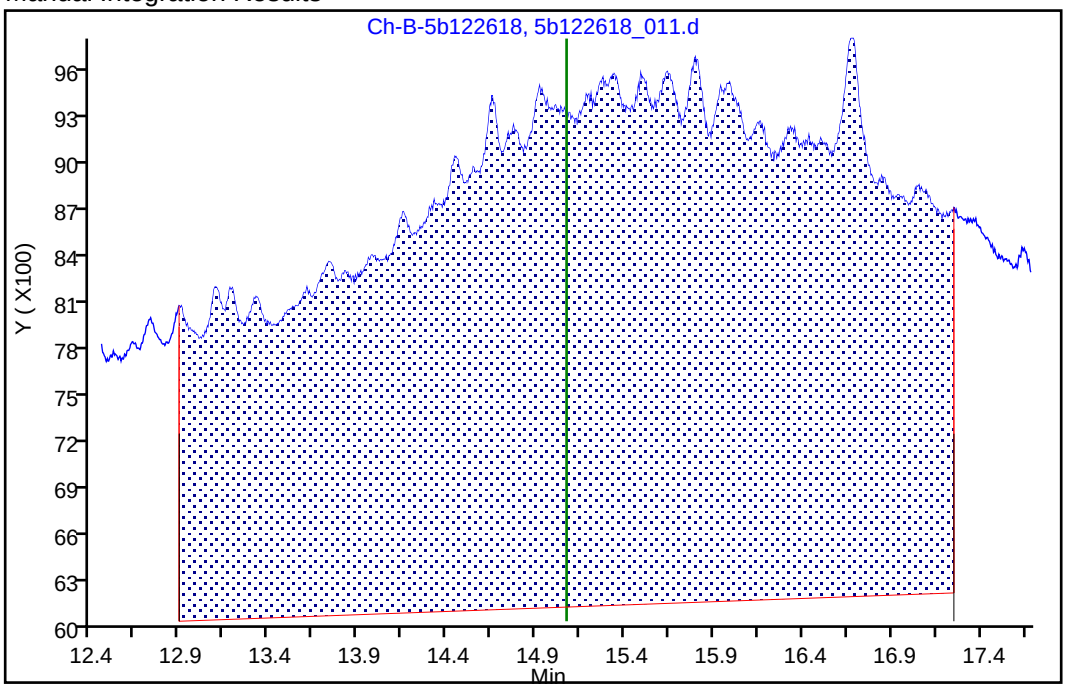
Processing Integration Results

RT: 15.07
Response: 3403831
Amount: 543.1623



Manual Integration Results

RT: 15.07
Response: 3520421
Amount: 561.7670



Reviewer: hayashid, 27-Dec-2018 13:28:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_014.d
Lims ID: 720-90446-E-12-A
Client ID: DG-AM3S-0.5-1
Sample Type: Client
Inject. Date: 26-Dec-2018 15:17:27 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 103 Name: 720-0055838-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 13:31:14 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 13:32:01

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.718	2.691	0.027	431	NC	
	23 n-Decane	3.936	3.904	0.032	386	NC	
A	1 C9-C13	4.645	(2.691-6.599)		33753	2.66	M
A	21 Stoddard Solvent	4.645	(2.691-6.599)		33753	2.97	M
A	57 C10-C12	4.851	(3.904-5.799)		15497	1.58	M
	24 Dodecane	5.783	5.799	-0.016	546	NC	M
A	3 C9 - C17	5.998	(2.691-9.306)		160777	11.4	M
A	47 C9 - C18	6.287	(2.691-9.883)		273167	24.3	M
A	60 C10-C16	6.289	(3.904-8.675)		105818	8.48	M
A	15 Kerosene	6.564	(2.691-10.437)		413188	36.7	M
A	25 C9-C19	6.564	(2.691-10.437)		413188	29.2	M
	26 C13	6.573	6.599	-0.026	7569	NC	M
$	27 n-Decanoic Acid (Surr)		7.214			ND	U
A	59 C12-C16	7.237	(5.799-8.675)		90867	9.25	M
A	62 C10-C20	7.437	(3.904-10.971)		734699	74.8	M
A	28 C9-C24	7.791	(2.691-12.891)		2592381	264.0	M
A	29 C9-C25	8.009	(2.691-13.326)		3017132	307.3	M
A	54 C10-C23	8.172	(3.904-12.440)		1860202	189.5	M
A	4 C10-C24	8.397	(3.904-12.891)		2587323	263.5	M
A	16 C10-C25	8.615	(3.904-13.326)		3012074	306.8	M
	45 Hexadecane	8.697	8.675	0.022	6672	NC	M
A	14 C10-C26	8.825	(3.904-13.745)		3334309	339.6	M
A	67 C12-C22	8.885	(5.799-11.970)		1533473	156.2	M
A	5 Diesel	9.222	(3.904-14.540)		4572046	465.7	M
A	32 C10-C28	9.222	(3.904-14.540)		4572046	465.7	M
A	12 Unknown Hydrocarbons	9.222	(3.904-14.540)		4572046	NC	M
A	30 C13-C22	9.284	(6.599-11.970)		1527298	155.6	M
	44 Heptadecane	9.317	9.306	0.011	20702	NC	M
A	31 C12-C24	9.345	(5.799-12.891)		2572372	262.0	M
	49 n-Octadecane	9.897	9.883	0.014	23574	NC	M
A	52 Mineral oil	9.972	(2.691-17.253)		10319438	949.9	
A	9 Crude Oil Range Organics (	9.972	(2.691-17.253)		10319438	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.972	(2.691-17.253)		14346739	NC	M
33 C19	10.503	10.437	0.066	61987	NC	M
A 64 C13-C28	10.569	(6.599-14.540)		4550920	463.5	M
A 17 C10-C36	10.578	(3.904-17.253)		14341681	1460.7	M
A 13 C9-C40	10.752	(2.691-18.814)		12656910	1251.9	
A 68 Crude Oil Range Organics (	10.752	(2.691-18.814)		12656910	NC	
A 58 C16-C24	10.783	(8.675-12.891)		2481505	252.7	M
61 icosane	10.970	10.971	-0.001	88017	NC	M
A 6 C10-C40	11.359	(3.904-18.814)		12651139	1252.9	
$ 34 p-Terphenyl		11.938			ND	U
35 n-Docosane		11.970			ND	
A 18 C12-C40	12.306	(5.799-18.814)		12627706	1254.5	
36 Tricosane	12.440	12.440	0.000	168752	NC	M
A 66 C13-C40	12.706	(6.599-18.814)		12384960	1248.7	
37 n-Tetracosane	12.887	12.891	-0.004	263230	NC	M
A 2 C16-C36 ORO	12.964	(8.675-17.253)		8223207	1114.5	
38 C25	13.310	13.326	-0.016	171926	NC	M
A 19 C16-C40	13.744	(8.675-18.814)		12494504	1248.3	
46 n-Hexacosane	13.747	13.745	0.002	136612	NC	M
A 20 C19-C36	13.845	(10.437-17.253)		8039894	1031.1	
A 55 C23-C32	14.210	(12.440-15.979)		5147977	1195.2	
39 n-Octacosane	14.453	14.540	-0.087	503620	NC	M
65 C29	14.883	14.918	-0.035	248907	NC	M
A 40 C24-C36	15.072	(12.891-17.253)		7333266	1170.2	
A 7 Motor Oil	15.072	(12.891-17.253)		7333266	1170.2	
A 50 C25-C36	15.290	(13.326-17.253)		6862919	1158.0	
A 10 C22-C40	15.392	(11.970-18.814)		10390819	1172.3	
A 41 C23-C40	15.627	(12.440-18.814)		9964121	1151.1	
A 8 C24-C40	15.853	(12.891-18.814)		9528466	1138.7	
56 Dotriacontane	15.943	15.979	-0.036	256303	NC	M
A 51 C28-C40	16.677	(14.540-18.814)		7487408	1125.4	
A 63 C29-C40	16.866	(14.918-18.814)		6823128	1119.1	
42 n-Hexatriacontane		17.253			ND	
43 C40		18.814			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

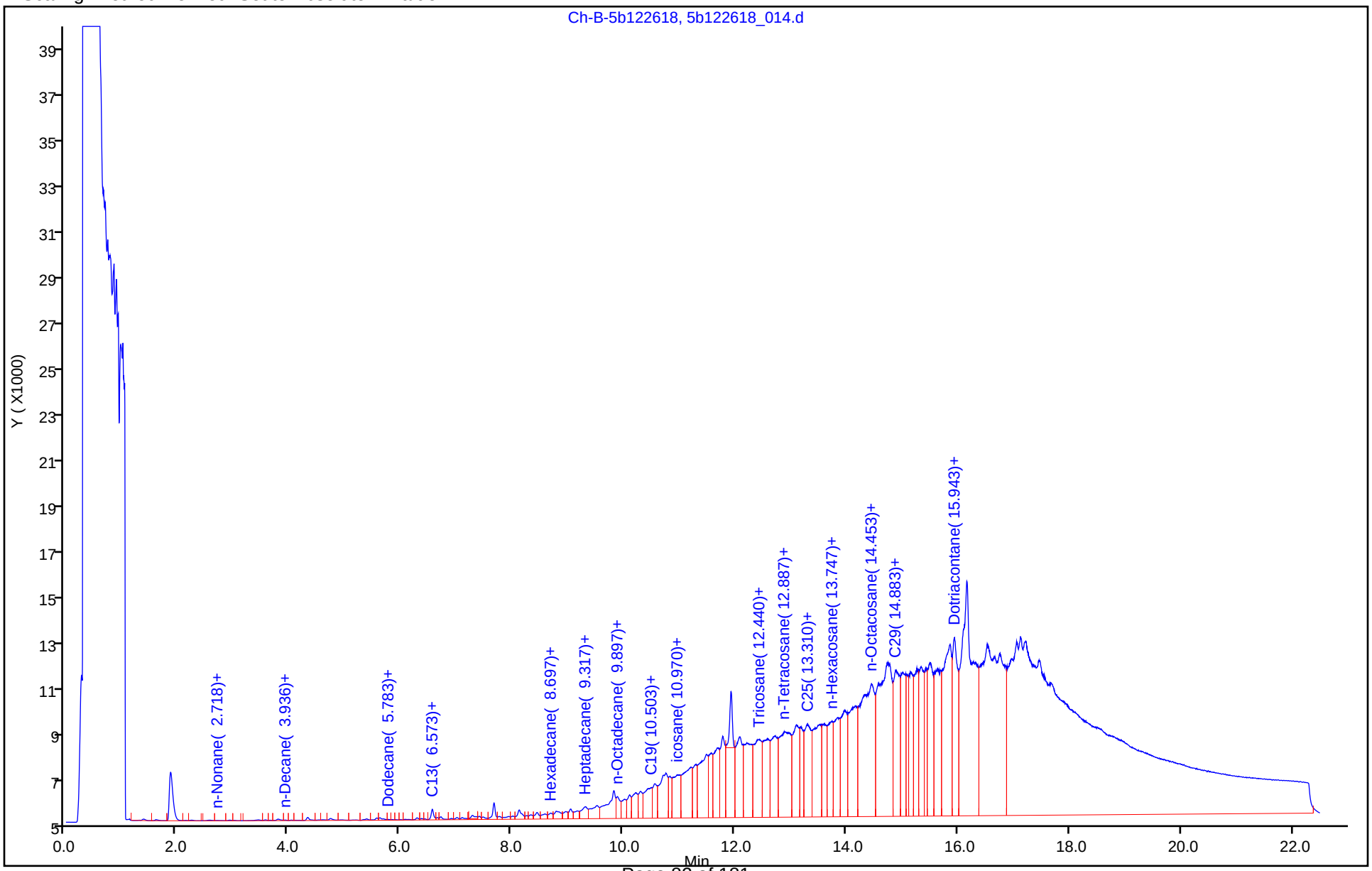
U - Marked Undetected

Report Date: 27-Dec-2018 13:32:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_014.d				
Injection Date:	26-Dec-2018 15:17:27	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-12-A	Lab Sample ID:	720-90446-12	Worklist Smp#:	14
Client ID:	DG-AM3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

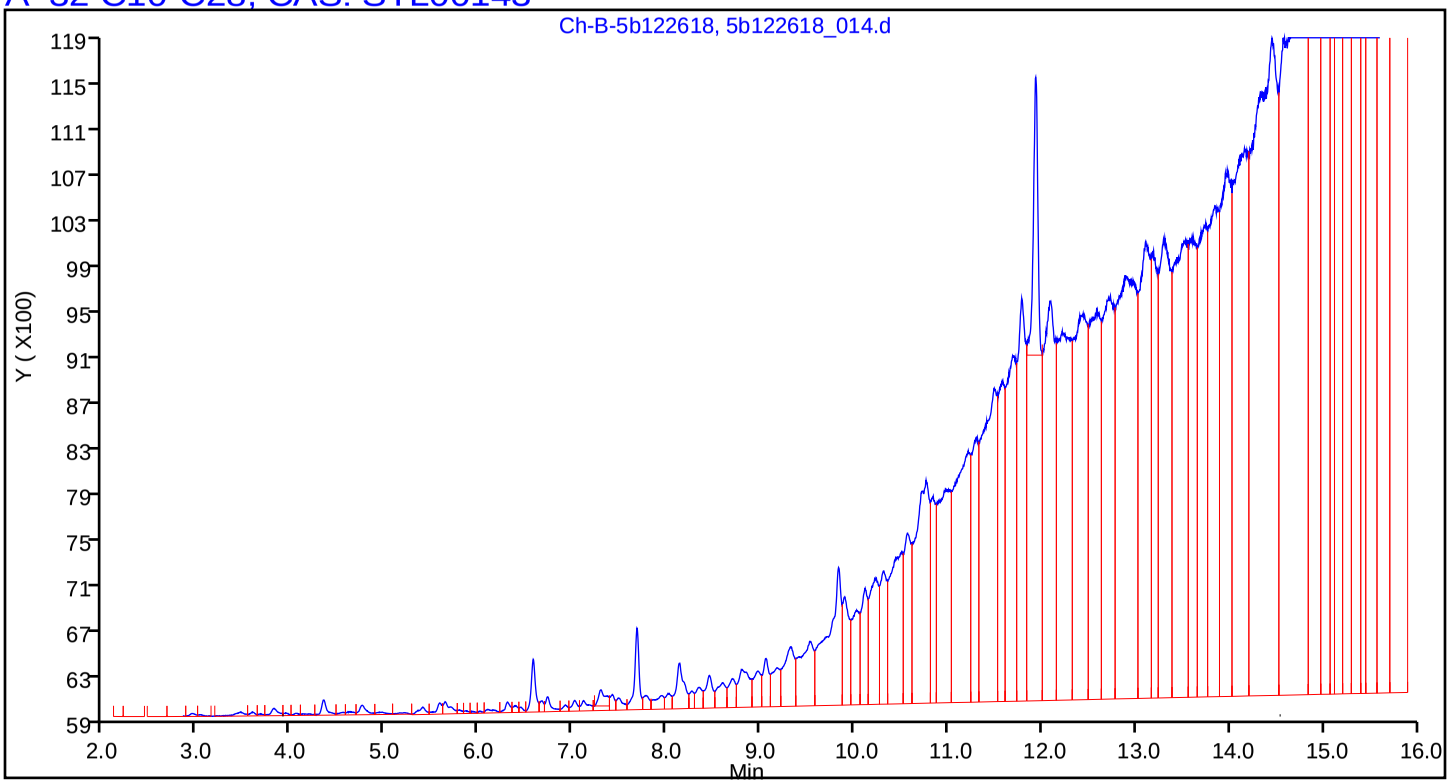


Report Date: 27-Dec-2018 13:32:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_014.d				
Injection Date:	26-Dec-2018 15:17:27	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-12-A	Lab Sample ID:	720-90446-12		
Client ID:	DG-AM3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

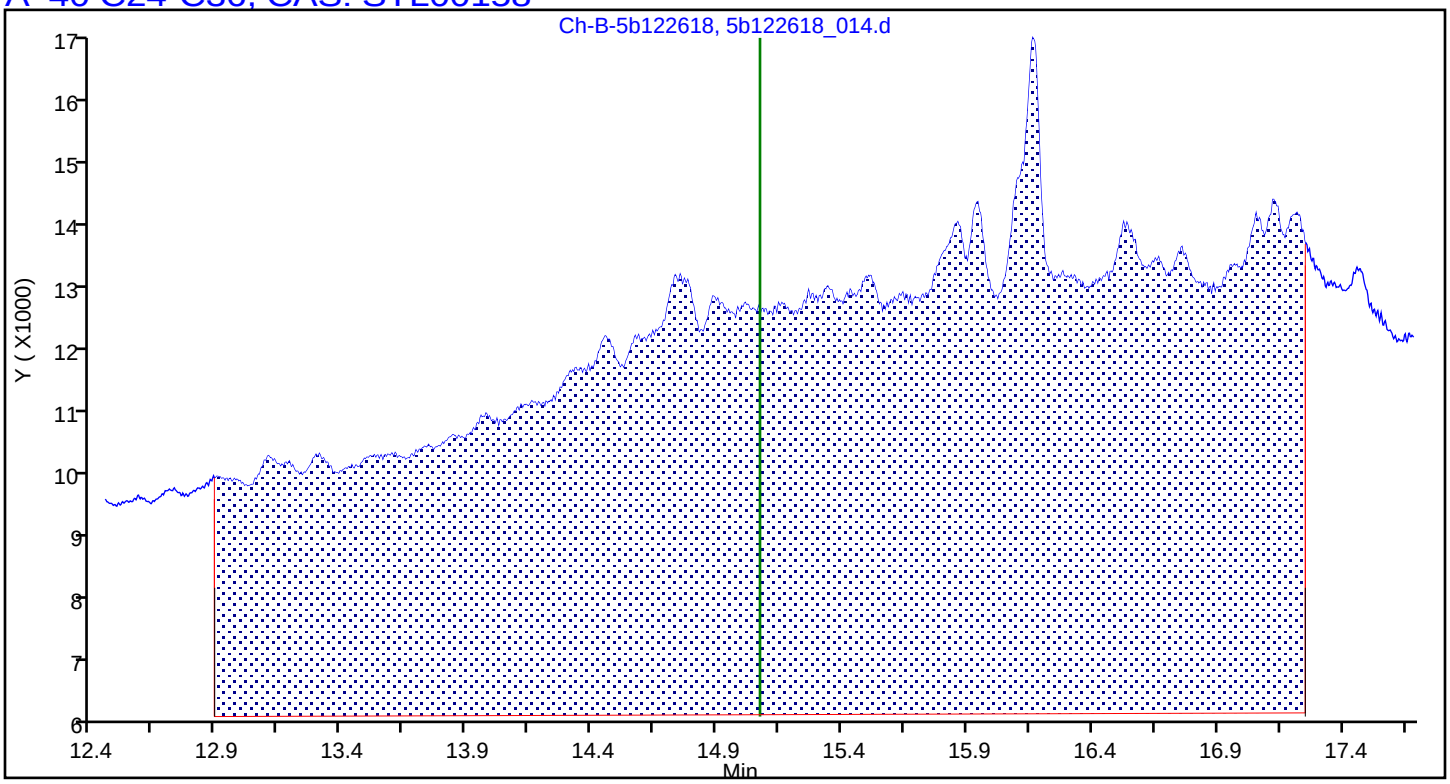


Report Date: 27-Dec-2018 13:32:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_014.d				
Injection Date:	26-Dec-2018 15:17:27	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-12-A	Lab Sample ID:	720-90446-12		
Client ID:	DG-AM3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

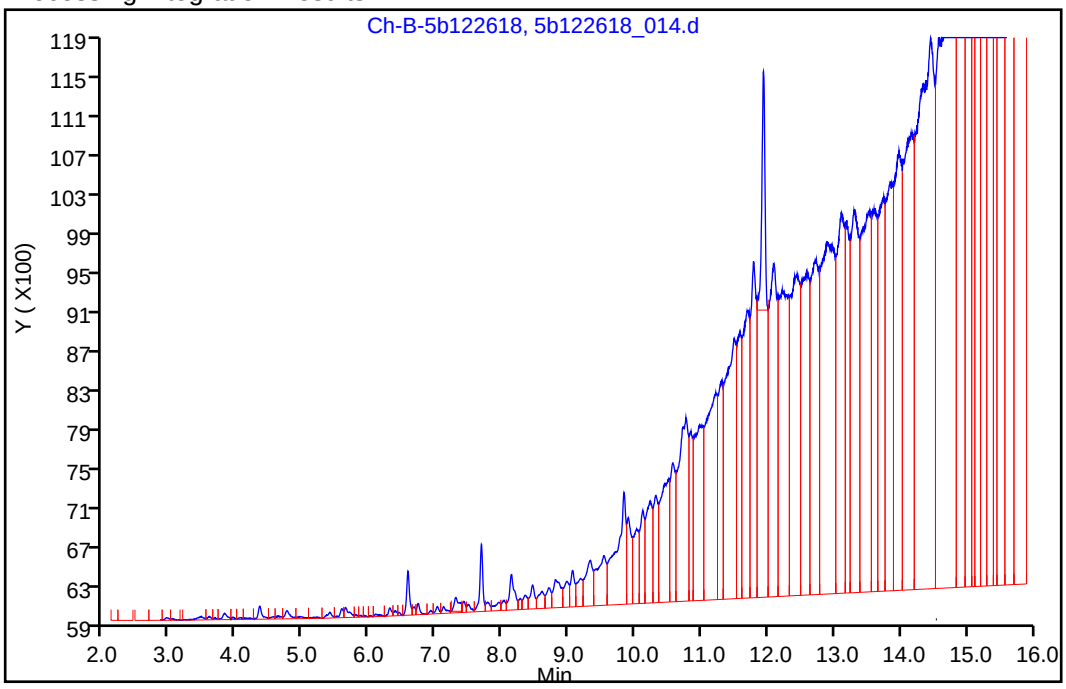
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_014.d				
Injection Date:	26-Dec-2018 15:17:27	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-12-A	Lab Sample ID:	720-90446-12		
Client ID:	DG-AM3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.222, CAS: STL00143

Signal: 1

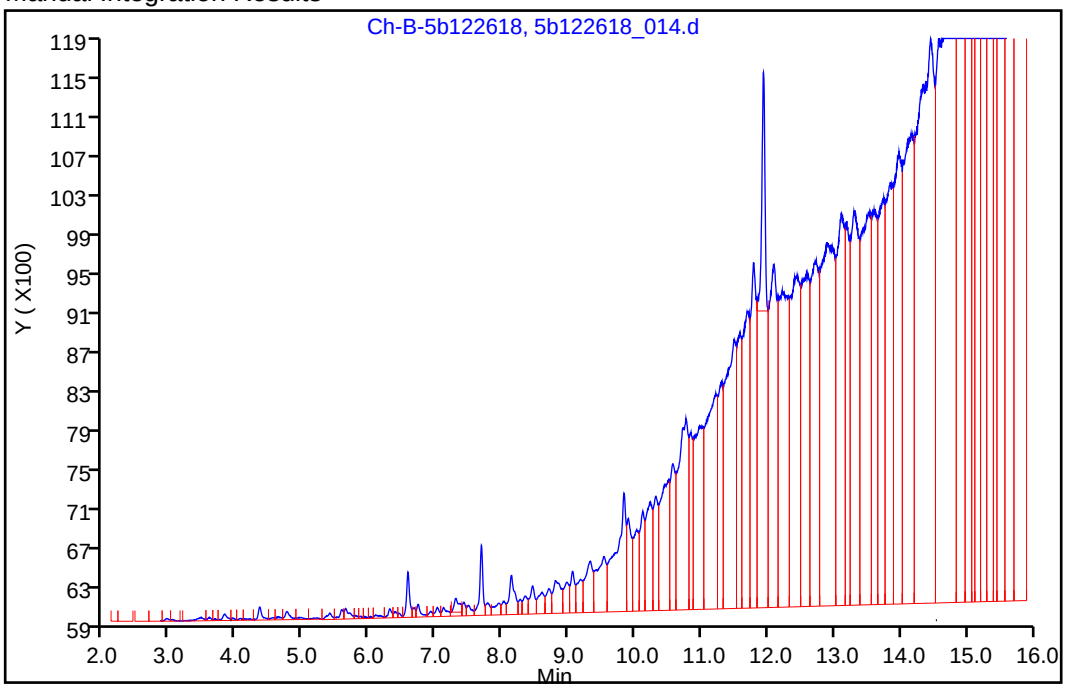
Processing Integration Results

RT: 9.22
Response: 4254535
Amount: 433.3308



Manual Integration Results

RT: 9.22
Response: 4572046
Amount: 465.6697



Reviewer: hayashid, 27-Dec-2018 13:31:04

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

User Disabled Compound Report

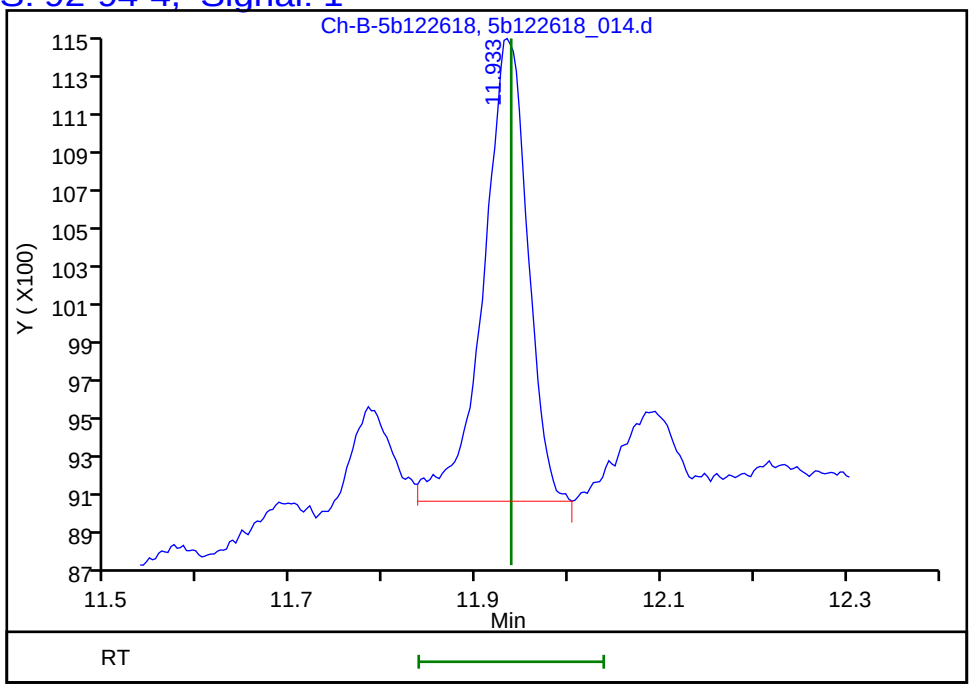
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_014.d

Injection Date:	26-Dec-2018 15:17:27	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-12-A	Lab Sample ID:	720-90446-12		
Client ID:	DG-AM3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.93
Response: 40000
Amount: 3.176527



Reviewer: hayashid, 27-Dec-2018 13:31:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_012.d
Lims ID: 720-90446-E-13-A
Client ID: DG-AM3S-3.5-4
Sample Type: Client
Inject. Date: 26-Dec-2018 14:19:18 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 141 Name: 720-0055838-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 13:29:19 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 13:29:19

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.709	2.691	0.018	1521	NC	
	23 n-Decane	3.908	3.904	0.004	2411	NC	
A	1 C9-C13	4.645	(2.691-6.599)		83164	6.57	
A	21 Stoddard Solvent	4.645	(2.691-6.599)		83164	7.32	
A	57 C10-C12	4.851	(3.904-5.799)		40162	4.09	
	24 Dodecane	5.796	5.799	-0.003	5217	NC	
A	3 C9 - C17	5.998	(2.691-9.306)		441921	31.3	
A	47 C9 - C18	6.287	(2.691-9.883)		630463	56.2	
A	60 C10-C16	6.289	(3.904-8.675)		328940	26.4	
A	15 Kerosene	6.564	(2.691-10.437)		800471	71.1	
A	25 C9-C19	6.564	(2.691-10.437)		800471	56.5	
	26 C13		6.599			ND	
$	27 n-Decanoic Acid (Surr)		7.214			ND	U
A	59 C12-C16	7.237	(5.799-8.675)		293995	29.9	
A	62 C10-C20	7.437	(3.904-10.971)		1054567	107.4	
A	28 C9-C24	7.791	(2.691-12.891)		2952478	300.7	
A	29 C9-C25	8.009	(2.691-13.326)		3401021	346.4	
A	54 C10-C23	8.172	(3.904-12.440)		2438283	248.3	
A	4 C10-C24	8.397	(3.904-12.891)		2937791	299.2	
A	16 C10-C25	8.615	(3.904-13.326)		3386334	344.9	
	45 Hexadecane	8.673	8.675	-0.003	13192	NC	
A	14 C10-C26	8.825	(3.904-13.745)		3852376	392.4	
A	67 C12-C22	8.885	(5.799-11.970)		1691955	172.3	
A	5 Diesel	9.222	(3.904-14.540)		4806278	489.5	
A	32 C10-C28	9.222	(3.904-14.540)		4806278	489.5	
A	12 Unknown Hydrocarbons	9.222	(3.904-14.540)		4806278	NC	
A	30 C13-C22	9.284	(6.599-11.970)		1672493	170.3	
	44 Heptadecane	9.320	9.306	0.014	54883	NC	
A	31 C12-C24	9.345	(5.799-12.891)		2902846	295.7	
	49 n-Octadecane	9.879	9.883	-0.004	43591	NC	
A	52 Mineral oil	9.972	(2.691-17.253)		9467513	871.5	
A	9 Crude Oil Range Organics (	9.972	(2.691-17.253)		9467513	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.972	(2.691-17.253)		9168302	NC	
33 C19	10.432	10.437	-0.005	88415	NC	
A 64 C13-C28	10.569	(6.599-14.540)		4751871	484.0	
A 17 C10-C36	10.578	(3.904-17.253)		9153615	932.3	
A 13 C9-C40	10.752	(2.691-18.814)		10674710	1055.8	
A 68 Crude Oil Range Organics (	10.752	(2.691-18.814)		10674710	NC	
A 58 C16-C24	10.783	(8.675-12.891)		2622043	267.1	
61 icosane	10.969	10.971	-0.002	83983	NC	
A 6 C10-C40	11.359	(3.904-18.814)		10656010	1055.3	
$ 34 p-Terphenyl	11.937	11.938	-0.001	218371	17.3	
35 n-Docosane	12.070	11.970	0.100	94696	NC	
A 18 C12-C40	12.306	(5.799-18.814)		10596588	1052.7	
36 Tricosane	12.435	12.440	-0.005	222094	NC	
A 66 C13-C40	12.706	(6.599-18.814)		10061800	1014.5	
37 n-Tetracosane	12.889	12.891	-0.002	263610	NC	
A 2 C16-C36 ORO	12.964	(8.675-17.253)		7059138	956.7	
38 C25	13.326	13.326	0.000	189587	NC	
A 19 C16-C40	13.744	(8.675-18.814)		10242648	1023.3	
46 n-Hexacosane	13.745	13.745	0.000	204783	NC	
A 20 C19-C36	13.845	(10.437-17.253)		7529143	965.6	
A 55 C23-C32	14.210	(12.440-15.979)		4764783	1106.2	
39 n-Octacosane	14.542	14.540	0.002	152771	NC	
65 C29	14.922	14.918	0.004	392515	NC	
A 40 C24-C36	15.072	(12.891-17.253)		6042416	964.2	M
A 7 Motor Oil	15.072	(12.891-17.253)		5935651	947.2	
A 50 C25-C36	15.290	(13.326-17.253)		5462856	921.7	
A 10 C22-C40	15.392	(11.970-18.814)		7662668	864.5	
A 41 C23-C40	15.627	(12.440-18.814)		7439087	859.4	
A 8 C24-C40	15.853	(12.891-18.814)		6987004	835.0	
56 Dotriacontane	15.991	15.979	0.012	1458834	NC	
A 51 C28-C40	16.677	(14.540-18.814)		4977937	748.2	
A 63 C29-C40	16.866	(14.918-18.814)		4393735	720.7	
42 n-Hexatriacontane		17.253			ND	
43 C40		18.814			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

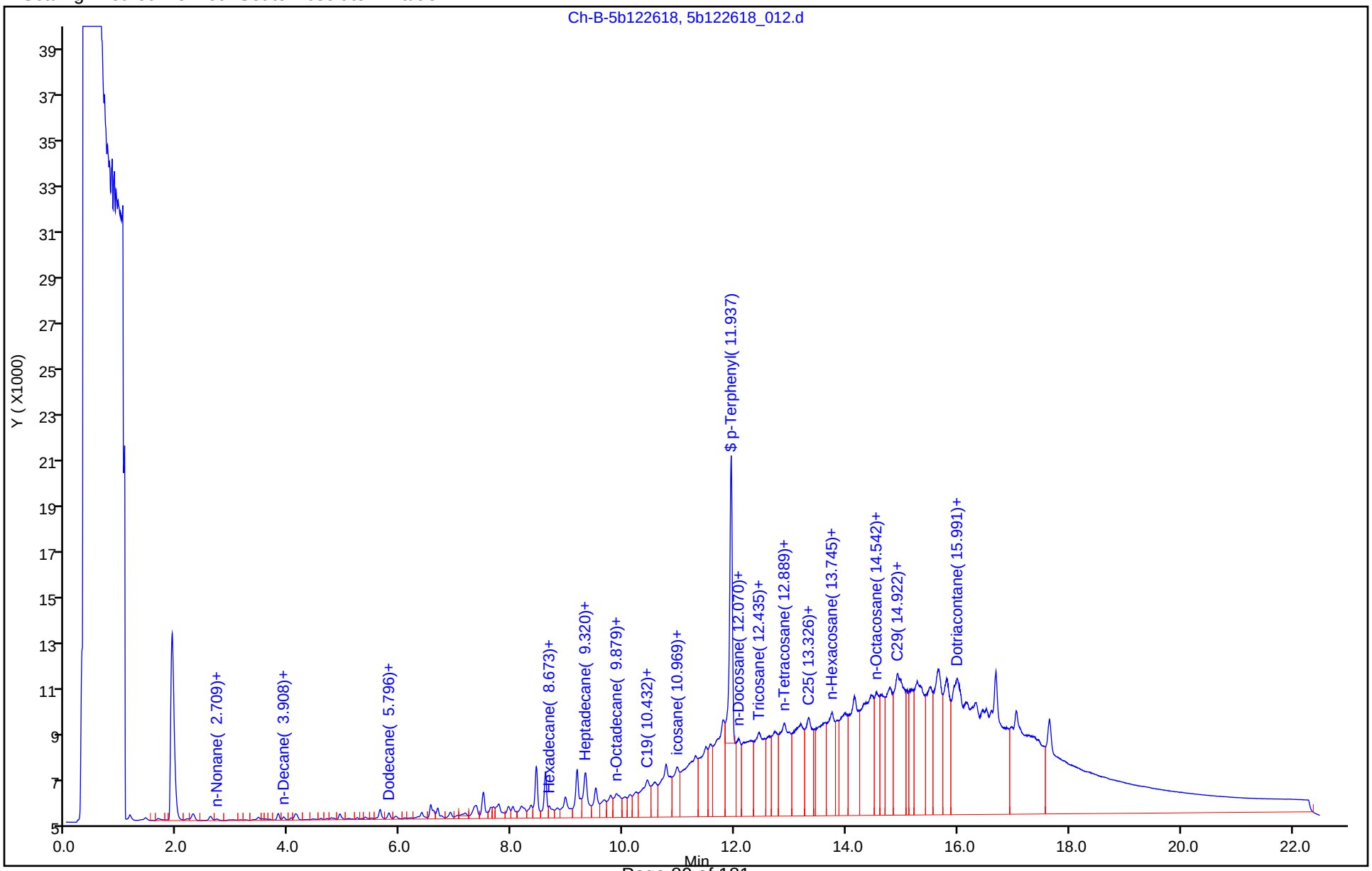
U - Marked Undetected

Report Date: 27-Dec-2018 13:29:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_012.d				
Injection Date:	26-Dec-2018 14:19:18	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-13-A	Lab Sample ID:	720-90446-13	Worklist Smp#:	12
Client ID:	DG-AM3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_012.d				
Lims ID:	720-90446-E-13-A				
Client ID:	DG-AM3S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Dec-2018 14:19:18	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 141 Name: 720-0055838-012				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	27-Dec-2018 13:29:19	Calib Date:	26-Dec-2018 09:13:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0318				
First Level Reviewer: hayashid		Date:	27-Dec-2018 13:29:19		

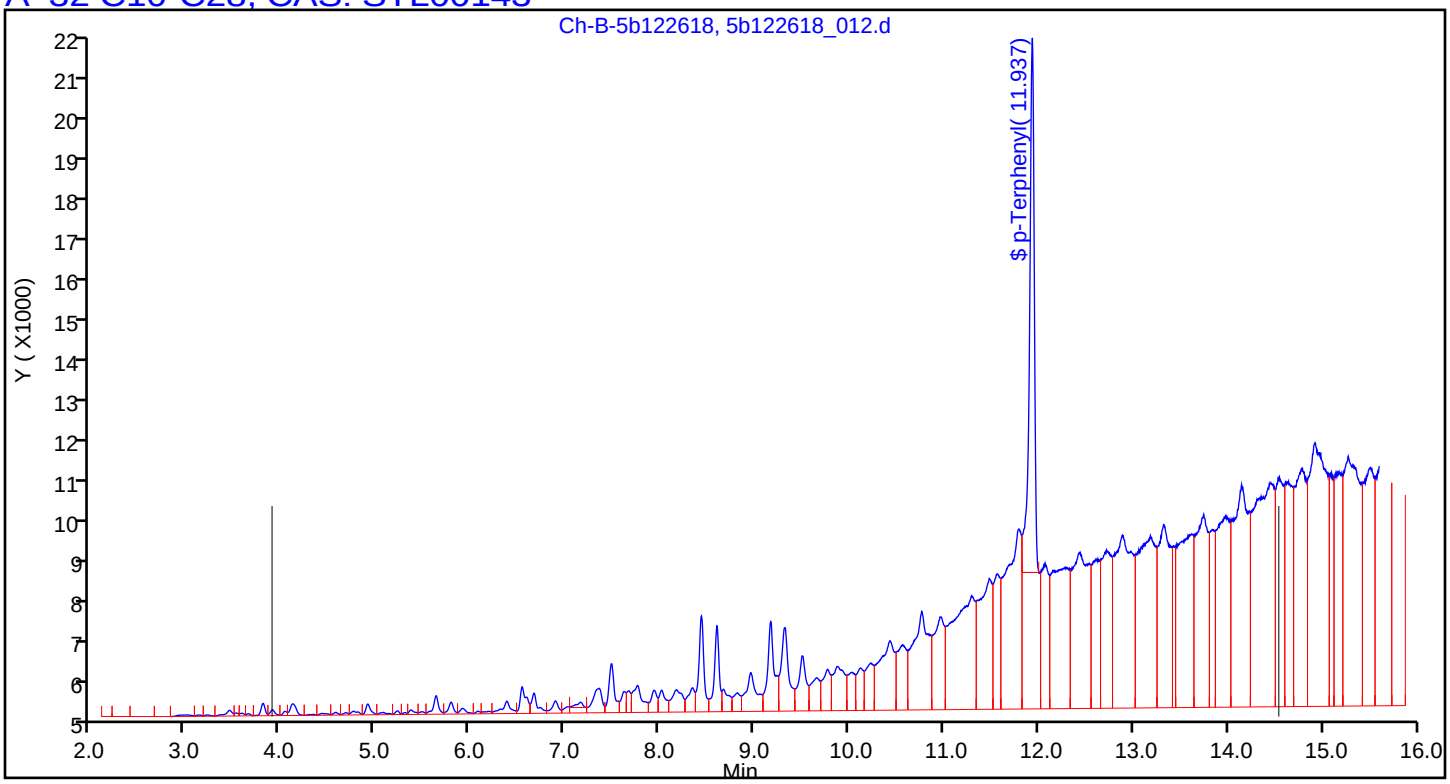
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	17.3	69.37

Report Date: 27-Dec-2018 13:29:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_012.d				
Injection Date:	26-Dec-2018 14:19:18	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-13-A	Lab Sample ID:	720-90446-13		
Client ID:	DG-AM3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

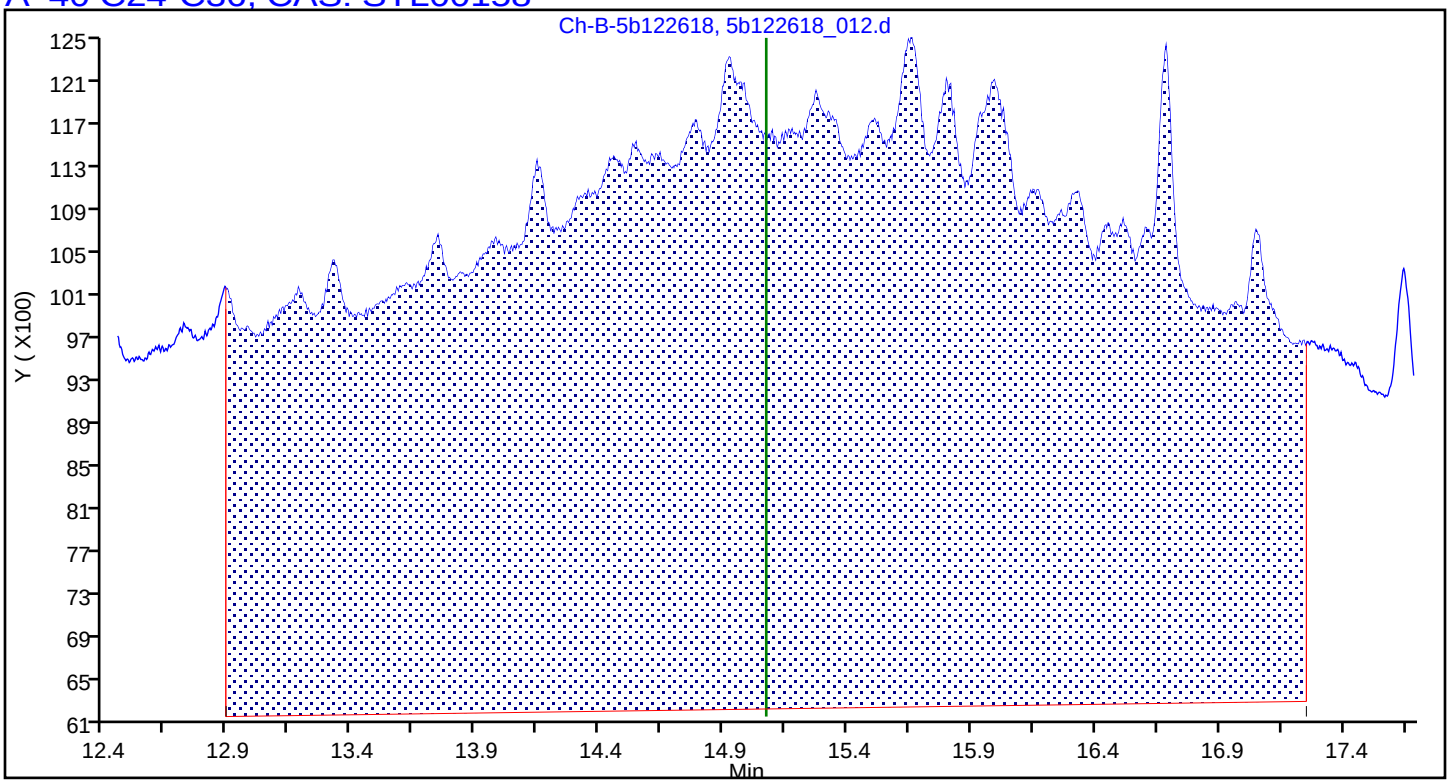


Report Date: 27-Dec-2018 13:29:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_012.d				
Injection Date:	26-Dec-2018 14:19:18	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-13-A	Lab Sample ID:	720-90446-13		
Client ID:	DG-AM3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

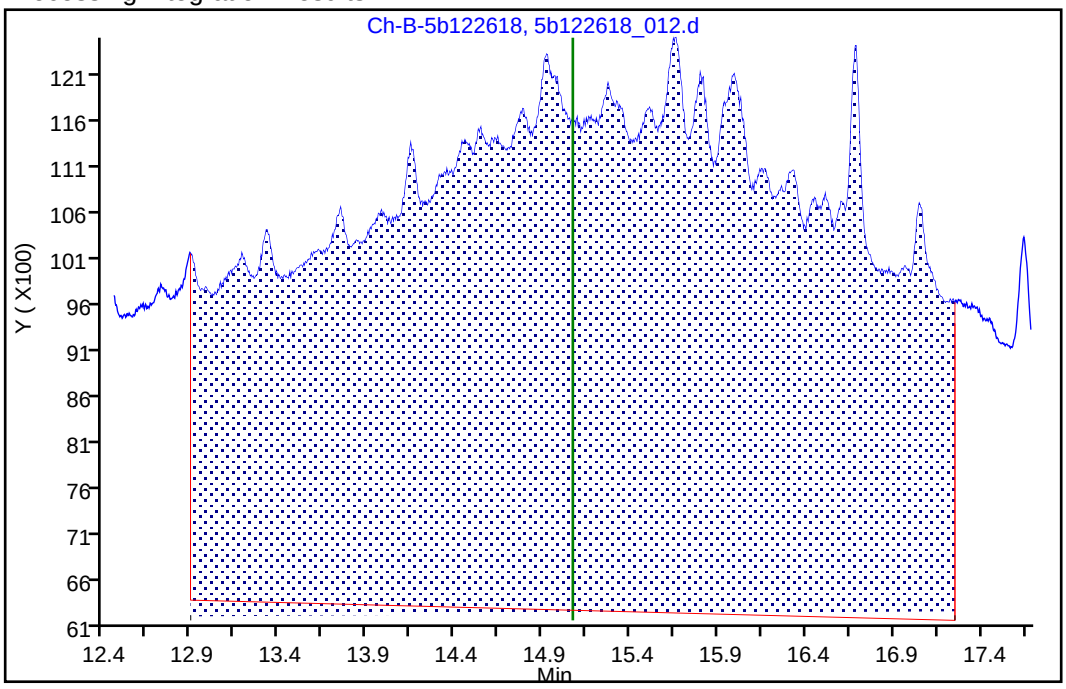
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_012.d				
Injection Date:	26-Dec-2018 14:19:18	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-13-A	Lab Sample ID:	720-90446-13		
Client ID:	DG-AM3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.072, CAS: STL00158

Signal: 1

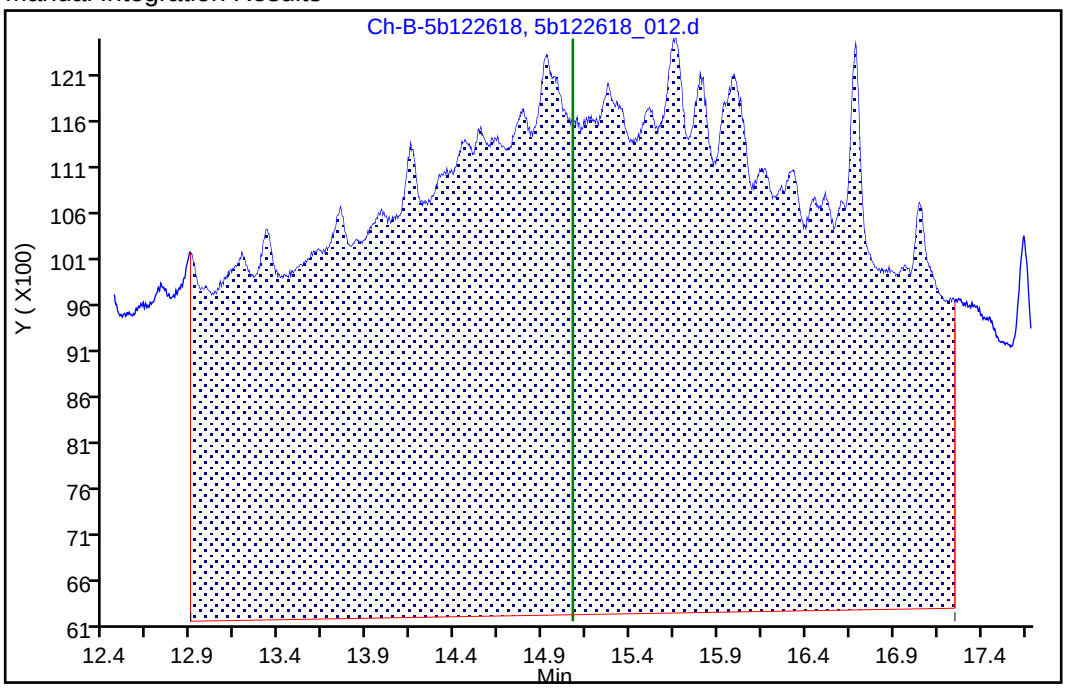
Processing Integration Results

RT: 15.07
Response: 5935651
Amount: 947.1744



Manual Integration Results

RT: 15.07
Response: 6042416
Amount: 964.2113



Reviewer: hayashid, 27-Dec-2018 13:29:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_013.d
Lims ID: 720-90446-E-14-A
Client ID: DG-AO3S-0.5-1
Sample Type: Client
Inject. Date: 26-Dec-2018 14:48:21 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 102 Name: 720-0055838-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 13:30:26 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 13:30:26

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.726	2.691	0.035	953	NC	
	23 n-Decane	3.918	3.904	0.014	1063	NC	
A	1 C9-C13	4.645	(2.691-6.599)		51643	4.08	
A	21 Stoddard Solvent	4.645	(2.691-6.599)		51643	4.54	
A	57 C10-C12	4.851	(3.904-5.799)		23249	2.37	
	24 Dodecane	5.796	5.799	-0.003	2209	NC	
A	3 C9 - C17	5.998	(2.691-9.306)		213864	15.1	
A	47 C9 - C18	6.287	(2.691-9.883)		330412	29.4	
A	60 C10-C16	6.289	(3.904-8.675)		159130	12.8	
A	15 Kerosene	6.564	(2.691-10.437)		442366	39.3	
A	25 C9-C19	6.564	(2.691-10.437)		442366	31.2	
	26 C13	6.551	6.599	-0.048	8229	NC	
$	27 n-Decanoic Acid (Surr)		7.214			ND	U
A	59 C12-C16	7.237	(5.799-8.675)		138090	14.1	
A	62 C10-C20	7.437	(3.904-10.971)		718451	73.2	
A	28 C9-C24	7.791	(2.691-12.891)		1893725	192.9	
A	29 C9-C25	8.009	(2.691-13.326)		2262138	230.4	
A	54 C10-C23	8.172	(3.904-12.440)		1630158	166.0	
A	4 C10-C24	8.397	(3.904-12.891)		1883158	191.8	
A	16 C10-C25	8.615	(3.904-13.326)		2251571	229.3	
	45 Hexadecane	8.674	8.675	-0.001	5396	NC	
A	14 C10-C26	8.825	(3.904-13.745)		2533899	258.1	
A	67 C12-C22	8.885	(5.799-11.970)		1296446	132.0	
A	5 Diesel	9.222	(3.904-14.540)		3112901	317.1	
A	32 C10-C28	9.222	(3.904-14.540)		3112901	317.1	
A	12 Unknown Hydrocarbons	9.222	(3.904-14.540)		3112901	NC	
A	30 C13-C22	9.284	(6.599-11.970)		1284639	130.8	
	44 Heptadecane	9.321	9.306	0.015	27383	NC	
A	31 C12-C24	9.345	(5.799-12.891)		1862118	189.7	
	49 n-Octadecane	9.929	9.883	0.046	13914	NC	
A	52 Mineral oil	9.972	(2.691-17.253)		6747433	621.1	
A	9 Crude Oil Range Organics (	9.972	(2.691-17.253)		6747433	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.972	(2.691-17.253)		6238823	NC	
33 C19	10.440	10.437	0.003	48189	NC	
A 64 C13-C28	10.569	(6.599-14.540)		3080054	313.7	
A 17 C10-C36	10.578	(3.904-17.253)		6228256	634.4	
A 13 C9-C40	10.752	(2.691-18.814)		8109576	802.1	
A 68 Crude Oil Range Organics (	10.752	(2.691-18.814)		8109576	NC	
A 58 C16-C24	10.783	(8.675-12.891)		1729424	176.1	
61 icosane	10.989	10.971	0.018	80360	NC	
A 6 C10-C40	11.359	(3.904-18.814)		8097188	801.9	
$ 34 p-Terphenyl	11.937	11.938	-0.001	210250	16.7	
35 n-Docosane	12.048	11.970	0.078	63031	NC	
A 18 C12-C40	12.306	(5.799-18.814)		8062613	801.0	
36 Tricosane	12.441	12.440	0.001	77832	NC	
A 66 C13-C40	12.706	(6.599-18.814)		7697176	776.1	
37 n-Tetracosane	12.894	12.891	0.003	110033	NC	
A 2 C16-C36 ORO	12.964	(8.675-17.253)		4787925	648.9	
38 C25	13.323	13.326	-0.003	81125	NC	
A 19 C16-C40	13.744	(8.675-18.814)		7874031	786.7	
46 n-Hexacosane	13.738	13.745	-0.007	76988	NC	
A 20 C19-C36	13.845	(10.437-17.253)		5021003	643.9	
A 55 C23-C32	14.210	(12.440-15.979)		2892346	671.5	
39 n-Octacosane	14.556	14.540	0.016	66430	NC	
65 C29	14.918	14.918	0.000	142926	NC	
A 40 C24-C36	15.072	(12.891-17.253)		4204246	670.9	
A 7 Motor Oil	15.072	(12.891-17.253)		4204246	670.9	
A 50 C25-C36	15.290	(13.326-17.253)		3942652	665.2	
A 10 C22-C40	15.392	(11.970-18.814)		5744652	648.1	
A 41 C23-C40	15.627	(12.440-18.814)		5689371	657.3	
A 8 C24-C40	15.853	(12.891-18.814)		5437221	649.8	
56 Dotriacontane	15.919	15.979	-0.060	170335	NC	
A 51 C28-C40	16.677	(14.540-18.814)		4285233	644.1	
A 63 C29-C40	16.866	(14.918-18.814)		3934407	645.3	
42 n-Hexatriacontane	17.325	17.253	0.072	2419128	NC	
43 C40		18.814			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

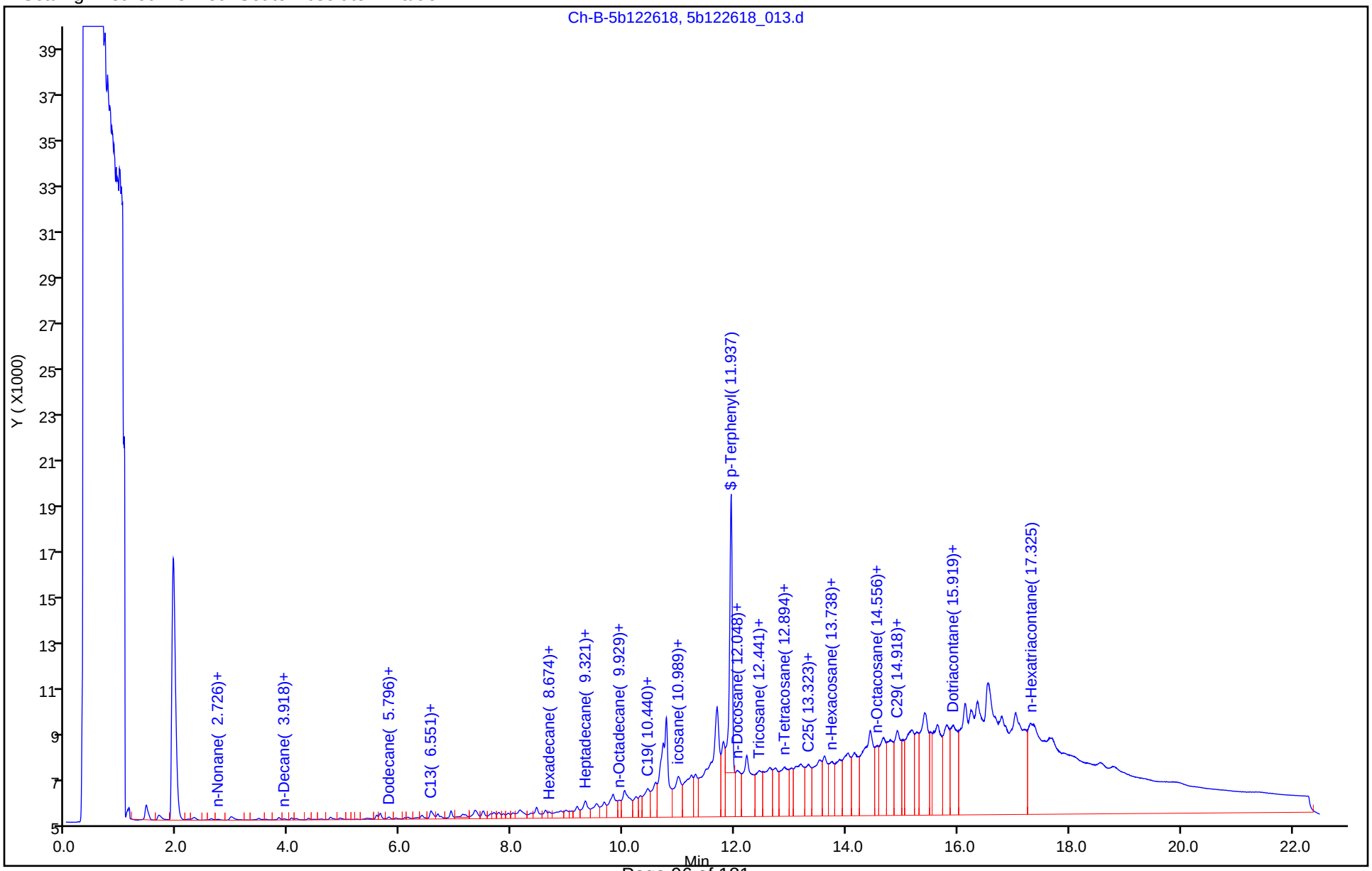
U - Marked Undetected

Report Date: 27-Dec-2018 13:30:27 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_013.d				
Injection Date:	26-Dec-2018 14:48:21	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-14-A	Lab Sample ID:	720-90446-14	Worklist Smp#:	13
Client ID:	DG-AO3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_013.d				
Lims ID:	720-90446-E-14-A				
Client ID:	DG-AO3S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Dec-2018 14:48:21	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 102 Name: 720-0055838-013				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	27-Dec-2018 13:30:26	Calib Date:	26-Dec-2018 09:13:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0318				

First Level Reviewer: hayashid Date: 27-Dec-2018 13:30:26

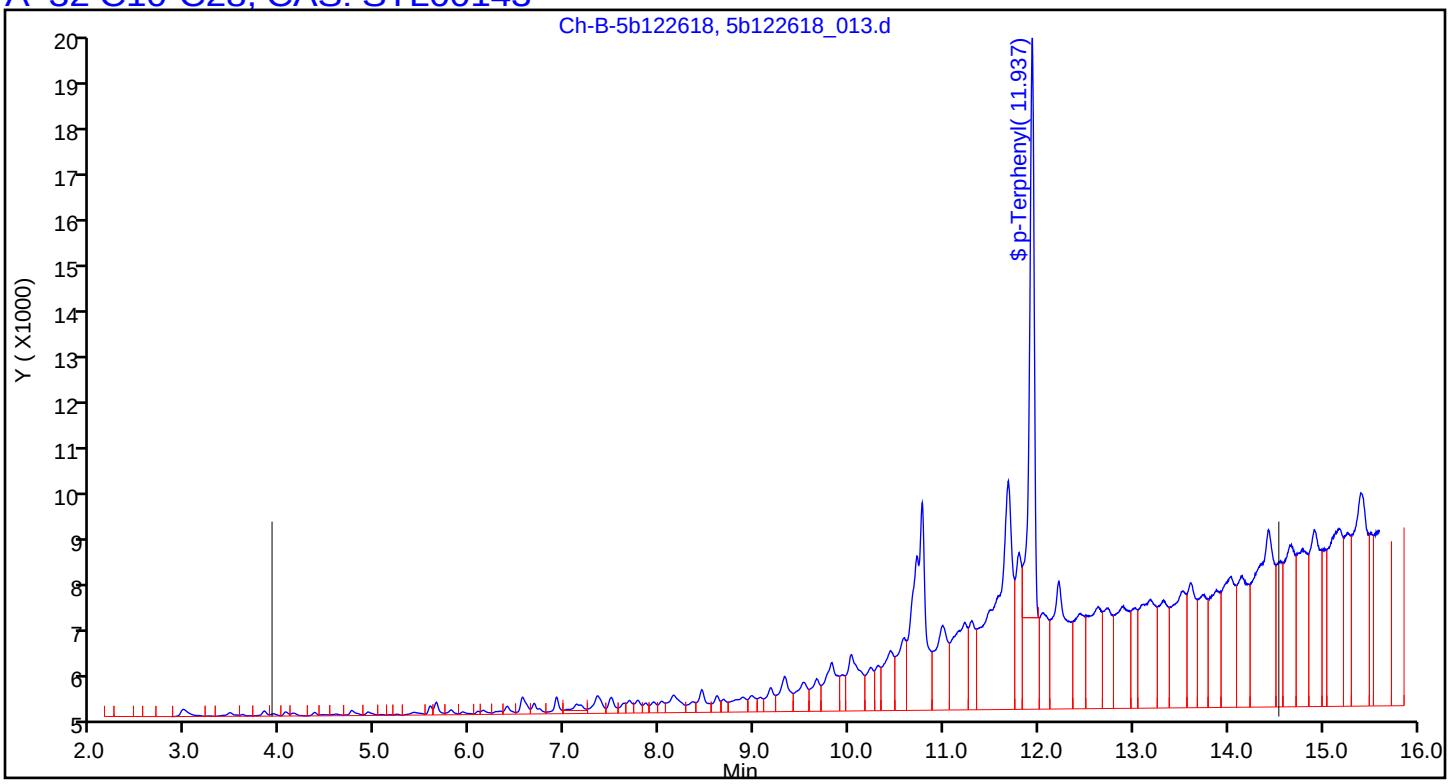
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	16.7	66.79

Report Date: 27-Dec-2018 13:30:28 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_013.d				
Injection Date:	26-Dec-2018 14:48:21	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-14-A	Lab Sample ID:	720-90446-14		
Client ID:	DG-AO3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

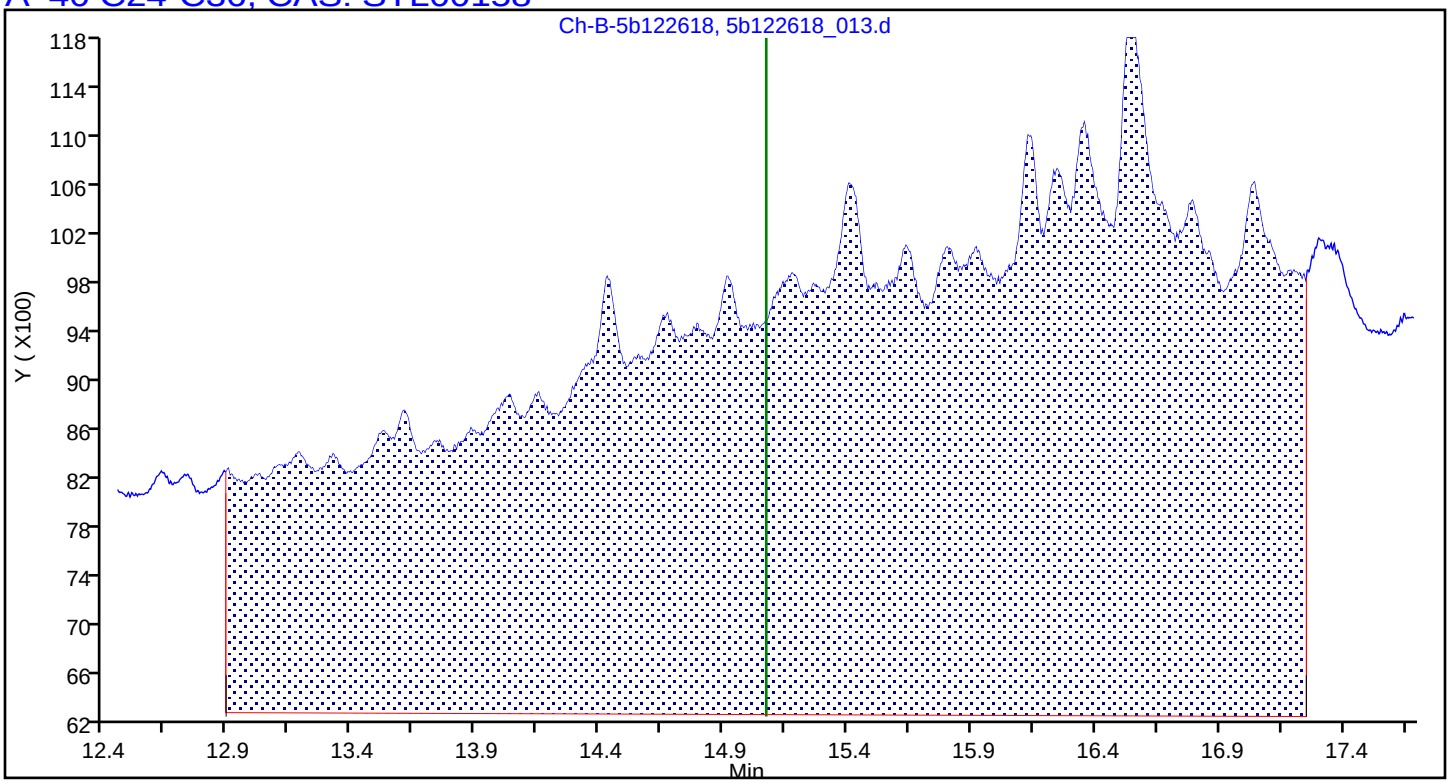


Report Date: 27-Dec-2018 13:30:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_013.d				
Injection Date:	26-Dec-2018 14:48:21	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-14-A	Lab Sample ID:	720-90446-14		
Client ID:	DG-AO3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_008.d
Lims ID: 720-90446-E-15-A
Client ID: DG-AO3S-3.5-4
Sample Type: Client
Inject. Date: 26-Dec-2018 12:23:08 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0055838-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m
Limit Group: DRO
Last Update: 27-Dec-2018 10:08:26 Calib Date: 26-Dec-2018 09:13:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 27-Dec-2018 10:08:26

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.725	2.691	0.034	471	NC	
	23 n-Decane	3.952	3.904	0.048	1812	NC	
A	1 C9-C13	4.645	(2.691-6.599)		35410	2.80	
A	21 Stoddard Solvent	4.645	(2.691-6.599)		35410	3.11	
A	57 C10-C12	4.851	(3.904-5.799)		16983	1.73	
	24 Dodecane	5.799	5.799	0.000	2001	NC	
A	3 C9 - C17	5.998	(2.691-9.306)		146601	10.4	
A	47 C9 - C18	6.287	(2.691-9.883)		216399	19.3	
A	60 C10-C16	6.289	(3.904-8.675)		112845	9.04	
A	15 Kerosene	6.564	(2.691-10.437)		257491	22.9	
A	25 C9-C19	6.564	(2.691-10.437)		257491	18.2	
	26 C13	6.552	6.599	-0.047	5537	NC	
$	27 n-Decanoic Acid (Surr)		7.214			ND	U
A	59 C12-C16	7.237	(5.799-8.675)		95862	9.76	
A	62 C10-C20	7.437	(3.904-10.971)		369075	37.6	
A	28 C9-C24	7.791	(2.691-12.891)		1031666	105.1	
A	29 C9-C25	8.009	(2.691-13.326)		1152552	117.4	
A	54 C10-C23	8.172	(3.904-12.440)		811857	82.7	
A	4 C10-C24	8.397	(3.904-12.891)		1027190	104.6	
A	16 C10-C25	8.615	(3.904-13.326)		1148076	116.9	
	45 Hexadecane	8.674	8.675	-0.001	7240	NC	
A	14 C10-C26	8.825	(3.904-13.745)		1370383	139.6	
A	67 C12-C22	8.885	(5.799-11.970)		633360	64.5	
A	5 Diesel	9.222	(3.904-14.540)		1736342	176.8	
A	32 C10-C28	9.222	(3.904-14.540)		1736342	176.8	
A	12 Unknown Hydrocarbons	9.222	(3.904-14.540)		1736342	NC	
A	30 C13-C22	9.284	(6.599-11.970)		624946	63.7	
	44 Heptadecane	9.321	9.306	0.015	21497	NC	
A	31 C12-C24	9.345	(5.799-12.891)		1010207	102.9	
	49 n-Octadecane	9.879	9.883	-0.004	9491	NC	
A	52 Mineral oil	9.972	(2.691-17.253)		3710801	341.6	
A	9 Crude Oil Range Organics (	9.972	(2.691-17.253)		3710801	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.972	(2.691-17.253)		3860567	NC	
33 C19	10.438	10.437	0.001	35874	NC	
A 64 C13-C28	10.569	(6.599-14.540)		1710945	174.3	
A 17 C10-C36	10.578	(3.904-17.253)		3856091	392.7	
A 13 C9-C40	10.752	(2.691-18.814)		4338768	429.1	
A 68 Crude Oil Range Organics (	10.752	(2.691-18.814)		4338768	NC	
A 58 C16-C24	10.783	(8.675-12.891)		921585	93.9	
61 icosane	10.972	10.971	0.001	21465	NC	
A 6 C10-C40	11.359	(3.904-18.814)		4331833	429.0	
$ 34 p-Terphenyl	11.937	11.938	-0.001	195132	15.5	
35 n-Docosane	12.069	11.970	0.099	30323	NC	
A 18 C12-C40	12.306	(5.799-18.814)		4301631	427.4	
36 Tricosane	12.443	12.440	0.003	58998	NC	
A 66 C13-C40	12.706	(6.599-18.814)		3942627	397.5	
37 n-Tetracosane	12.888	12.891	-0.003	58313	NC	
A 2 C16-C36 ORO	12.964	(8.675-17.253)		2712202	367.6	
38 C25	13.331	13.326	0.005	75034	NC	
A 19 C16-C40	13.744	(8.675-18.814)		4161594	415.8	
46 n-Hexacosane	13.744	13.745	-0.001	59046	NC	
A 20 C19-C36	13.845	(10.437-17.253)		2679159	343.6	
A 55 C23-C32	14.210	(12.440-15.979)		1734440	402.7	
39 n-Octacosane	14.454	14.540	-0.086	74164	NC	
65 C29	14.917	14.918	-0.001	179484	NC	
A 40 C24-C36	15.072	(12.891-17.253)		2246905	358.5	M
A 7 Motor Oil	15.072	(12.891-17.253)		2231185	356.0	
A 50 C25-C36	15.290	(13.326-17.253)		2067522	348.8	
A 10 C22-C40	15.392	(11.970-18.814)		2873331	324.2	
A 41 C23-C40	15.627	(12.440-18.814)		2917629	337.1	
A 8 C24-C40	15.853	(12.891-18.814)		2765786	330.5	
56 Dotriacontane	15.987	15.979	0.008	350188	NC	
A 51 C28-C40	16.677	(14.540-18.814)		2040778	306.7	
A 63 C29-C40	16.866	(14.918-18.814)		1818939	298.3	
42 n-Hexatriacontane		17.253			ND	
43 C40		18.814			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

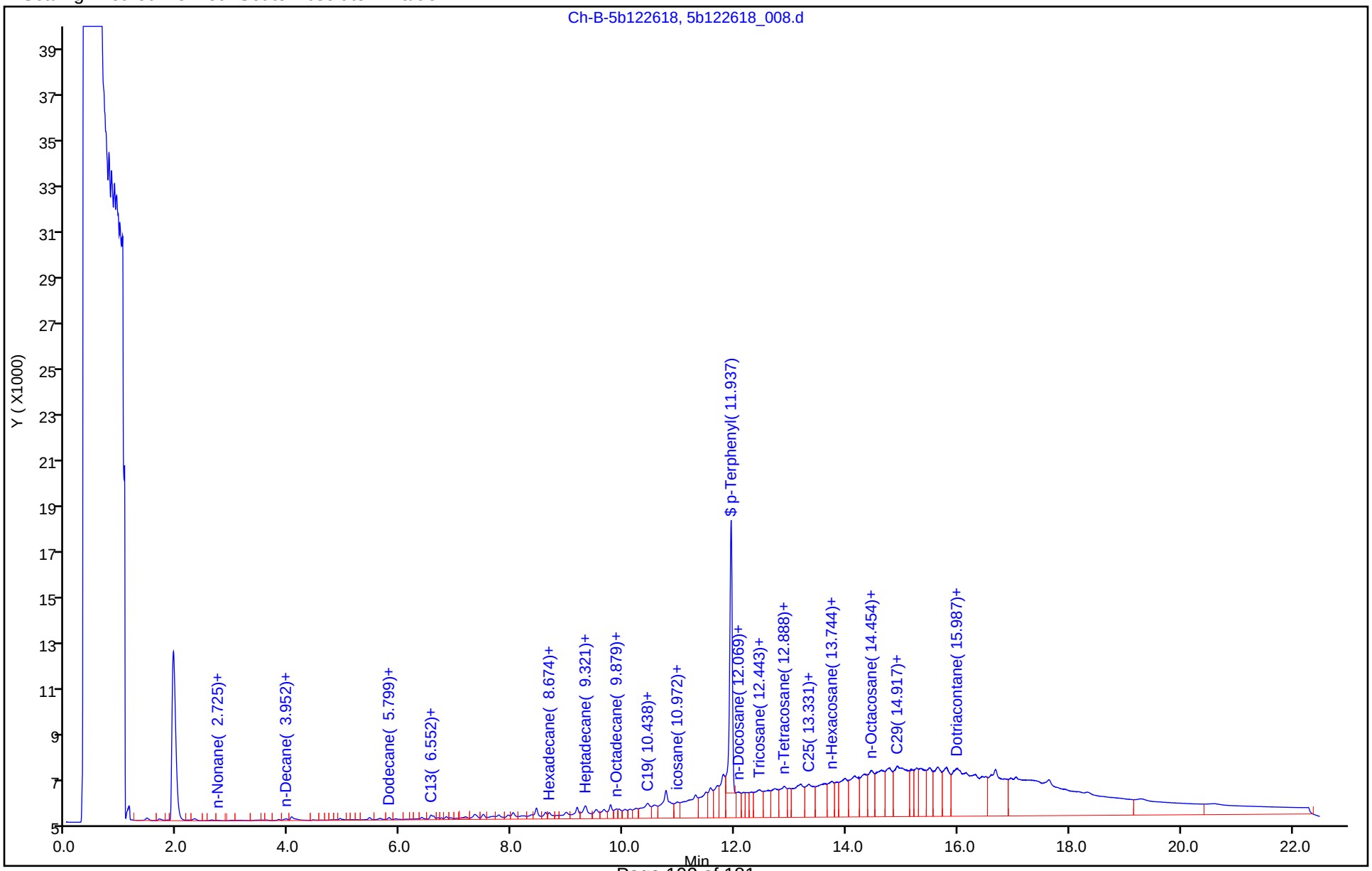
U - Marked Undetected

Report Date: 27-Dec-2018 10:08:27 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_008.d				
Injection Date:	26-Dec-2018 12:23:08	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-E-15-A	Lab Sample ID:	720-90446-15	Worklist Smp#:	8
Client ID:	DG-AO3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_008.d				
Lims ID:	720-90446-E-15-A				
Client ID:	DG-AO3S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Dec-2018 12:23:08	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 136 Name: 720-0055838-008				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	27-Dec-2018 10:08:26	Calib Date:	26-Dec-2018 09:13:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0318				
First Level Reviewer: hayashid		Date:	27-Dec-2018 10:08:26		

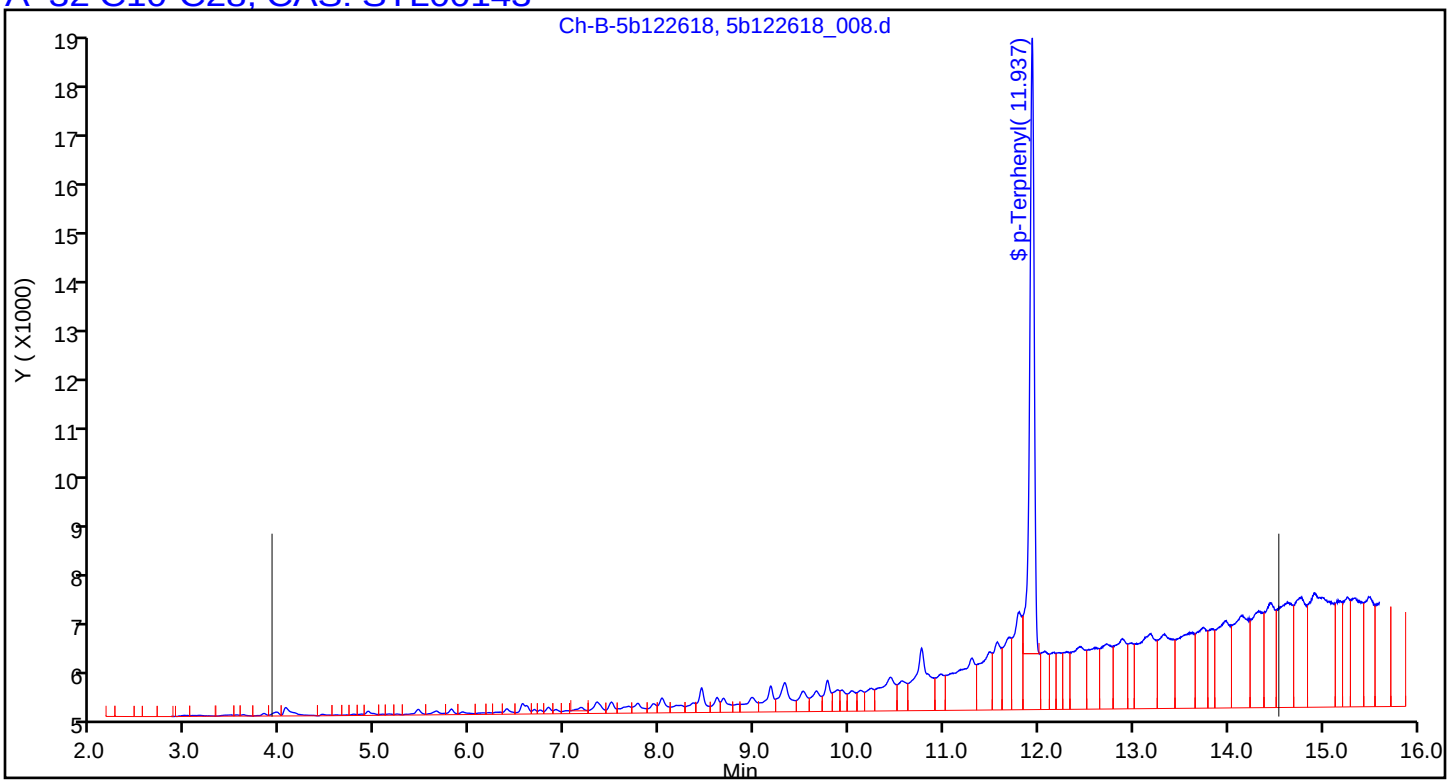
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	15.5	61.98

Report Date: 27-Dec-2018 10:08:27 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_008.d				
Injection Date:	26-Dec-2018 12:23:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-15-A	Lab Sample ID:	720-90446-15		
Client ID:	DG-AO3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

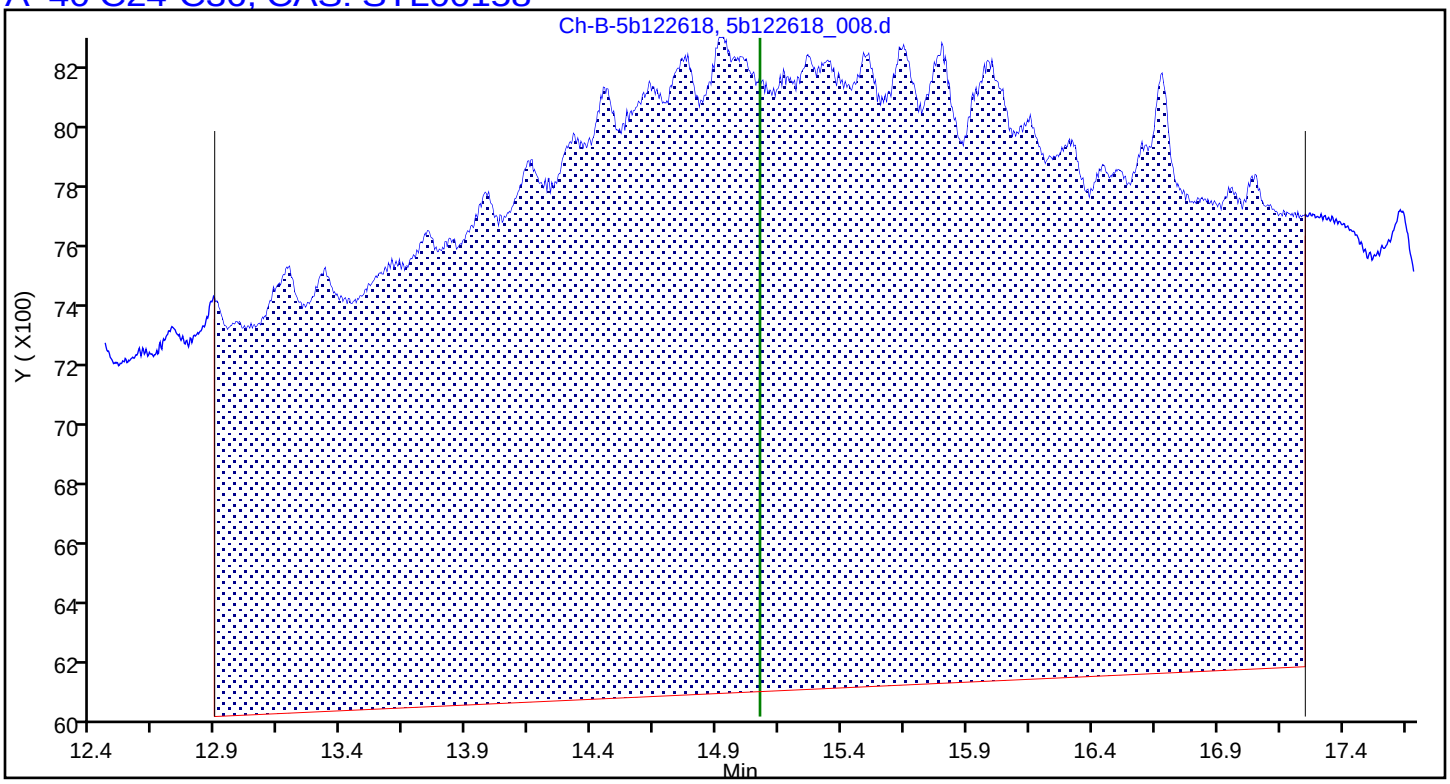


Report Date: 27-Dec-2018 10:08:28 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_008.d				
Injection Date:	26-Dec-2018 12:23:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-15-A	Lab Sample ID:	720-90446-15		
Client ID:	DG-AO3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

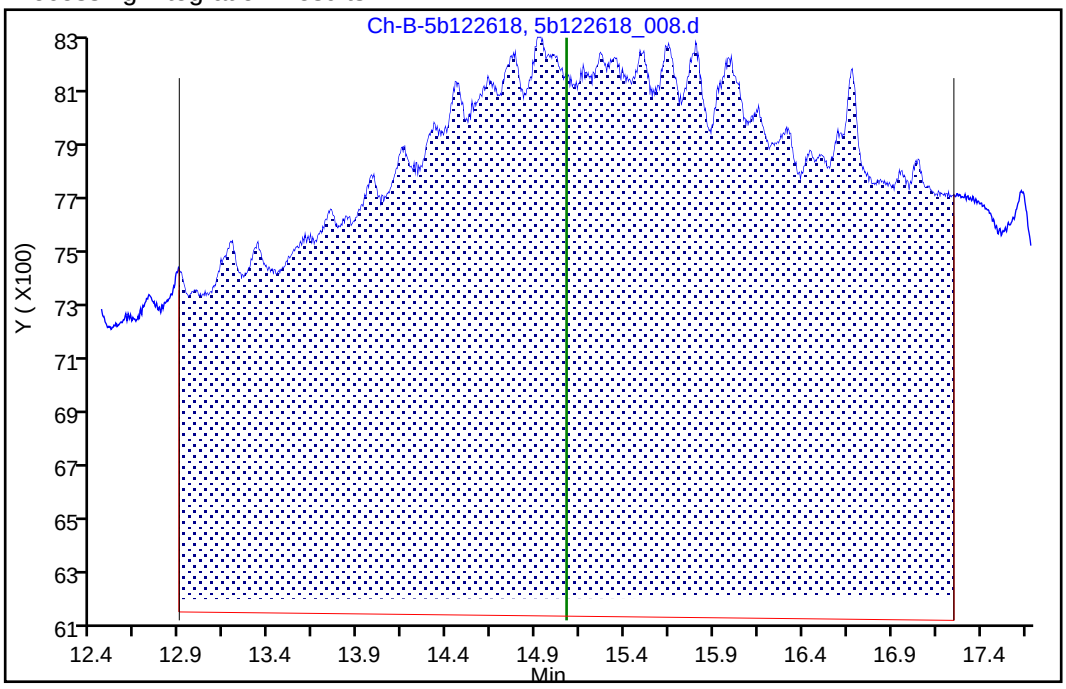
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181226-55838.b\5b122618_008.d				
Injection Date:	26-Dec-2018 12:23:08	Instrument ID:	CHDRO5		
Lims ID:	720-90446-E-15-A	Lab Sample ID:	720-90446-15		
Client ID:	DG-AO3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.072, CAS: STL00158

Signal: 1

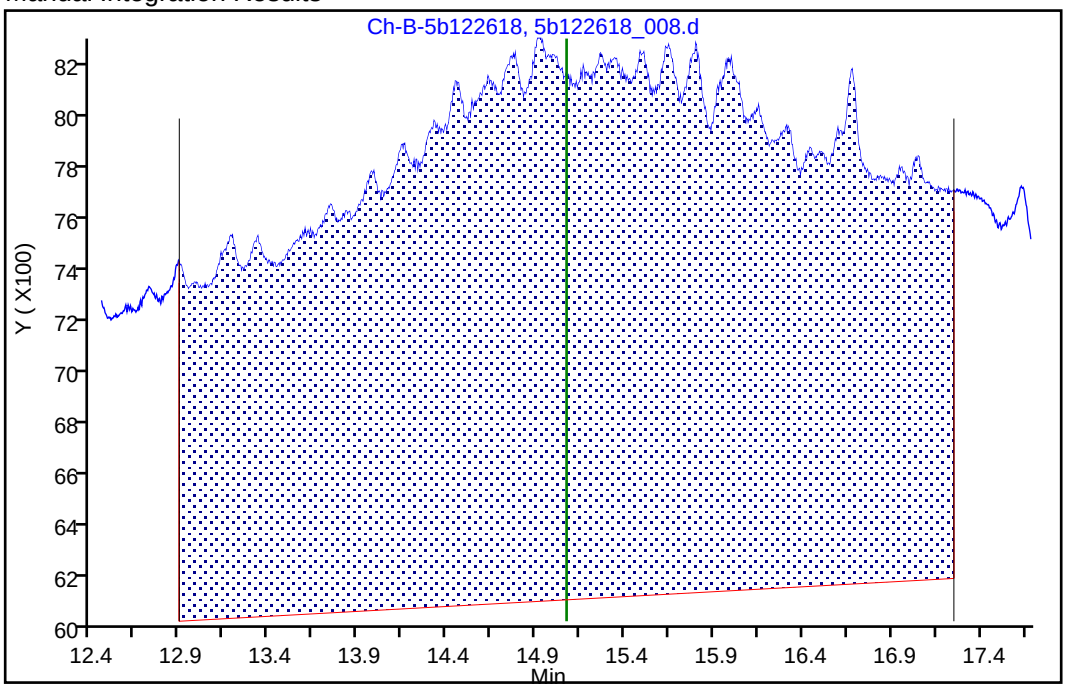
Processing Integration Results

RT: 15.07
Response: 2231185
Amount: 356.0387



Manual Integration Results

RT: 15.07
Response: 2246905
Amount: 358.5472



Reviewer: hayashid, 27-Dec-2018 10:08:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000015.D
Lims ID: 720-90446-E-16-A
Client ID: DG-AQ3S-0.5-1
Sample Type: Client
Inject. Date: 24-Dec-2018 14:12:09 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055820-015
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\DRO6_A.m
Limit Group: DRO
Last Update: 26-Dec-2018 09:34:35 Calib Date: 24-Dec-2018 08:31:13
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 09:35:02

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.269	1.210	0.059	1337	NC	
	23 n-Decane	2.125	2.087	0.038	140474	NC	
A	1 C9-C13	2.698	(1.210-4.186)		1484873	NC	
A	21 Stoddard Solvent	2.698	(1.210-4.186)		1484873	1.12	
A	57 C10-C12	2.826	(2.087-3.566)		1003414	0.7866	
	24 Dodecane	3.556	3.566	-0.010	79429	NC	
A	3 C9 - C17	3.736	(1.210-6.262)		3342820	2.19	
A	60 C10-C16	3.936	(2.087-5.786)		2392575	1.74	
A	47 C9 - C18	3.961	(1.210-6.711)		4066533	3.40	
A	15 Kerosene	4.175	(1.210-7.139)		5110241	4.27	
A	25 C9-C19	4.175	(1.210-7.139)		5110241	3.33	
	26 C13	4.198	4.186	0.012	20062	NC	
$	27 n-Decanoic Acid (Surr)		4.550			ND	U
A	59 C12-C16	4.676	(3.566-5.786)		1468590	1.15	
A	62 C10-C20	4.818	(2.087-7.550)		11225503	8.80	
A	28 C9-C24	5.122	(1.210-9.034)		18735861	14.7	
A	29 C9-C25	5.290	(1.210-9.371)		20944417	16.4	
A	54 C10-C23	5.385	(2.087-8.684)		16912995	13.3	
A	4 C10-C24	5.560	(2.087-9.034)		18543563	14.5	
A	16 C10-C25	5.729	(2.087-9.371)		20752119	16.3	
	45 Hexadecane	5.798	5.786	0.012	135698	NC	
A	14 C10-C26	5.891	(2.087-9.696)		22518236	17.7	
A	67 C12-C22	5.943	(3.566-8.321)		14390417	11.3	
A	32 C10-C28	6.200	(2.087-10.314)		28576373	22.4	
A	12 Unknown Hydrocarbons	6.200	(2.087-10.314)		28576373	NC	
A	5 Diesel	6.200	(2.087-10.314)		28576373	22.4	
A	30 C13-C22	6.254	(4.186-8.321)		14021827	11.0	
	44 Heptadecane	6.252	6.262	-0.010	140888	NC	
A	31 C12-C24	6.300	(3.566-9.034)		17619578	13.8	
	51 n-Octadecane	6.722	6.711	0.011	69800	NC	
A	9 Crude Oil Range Organics (	6.821	(1.210-12.432)		80238115	NC	
A	11 Bunker Range Organics (C9-	6.821	(1.210-12.432)		80238115	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.821	(1.210-12.432)		80238115	NC	
33 C19	7.067	7.139	-0.072	195586	NC	
A 64 C13-C28	7.250	(4.186-10.314)		27283798	21.4	
A 17 C10-C36	7.259	(2.087-12.432)		80045817	62.8	
A 68 Crude Oil Range Organics (	7.314	(1.210-13.419)		109287991	NC	
A 13 C9-C40	7.314	(1.210-13.419)		109287991	98.5	
A 58 C16-C24	7.410	(5.786-9.034)		16150988	12.7	
61 icosane	7.548	7.550	-0.002	347426	NC	
A 6 C10-C40	7.753	(2.087-13.419)		109095693	98.5	
$ 34 p-Terphenyl	8.006	8.007	-0.001	31762814	20.9	
35 n-Docosane	8.312	8.321	-0.009	215406	NC	
A 18 C12-C40	8.492	(3.566-13.419)		108171708	100.7	
36 Tricosane	8.697	8.684	0.013	345632	NC	
A 66 C13-C40	8.802	(4.186-13.419)		107803118	101.8	
37 n-Tetracosane	9.059	9.034	0.025	1070186	NC	
A 2 C16-C36 ORO	9.109	(5.786-12.432)		129014988	149.2	
38 C25	9.386	9.371	0.015	809352	NC	
A 19 C16-C40	9.602	(5.786-13.419)		106703118	102.7	
46 n-Hexacosane	9.733	9.696	0.037	1699471	NC	
A 20 C19-C36	9.786	(7.139-12.432)		122196078	118.4	
A 55 C23-C32	10.060	(8.684-11.435)		36998909	67.0	
39 n-Octacosane	10.360	10.314	0.046	5486193	NC	
65 C29	10.614	10.608	0.006	2042688	NC	
A 40 C24-C36	10.733	(9.034-12.432)		58106761	81.7	
A 7 Motor Oil	10.733	(9.034-12.432)		58106761	81.7	
A 10 C22-C40	10.870	(8.321-13.419)		87118311	88.3	
A 49 C25-C36	10.901	(9.371-12.432)		59293698	85.0	
A 41 C23-C40	11.051	(8.684-13.419)		92182698	92.2	
A 8 C24-C40	11.226	(9.034-13.419)		90552130	95.9	
56 Dotriacontane	11.415	11.435	-0.020	2610833	NC	
A 50 C28-C40	11.866	(10.314-13.419)		80519320	109.9	
A 63 C29-C40	12.013	(10.608-13.419)		73554872	109.1	
42 n-Hexatriacontane	12.362	12.432	-0.070	1961540	NC	
43 C40	13.395	13.419	-0.024	3047867	NC	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

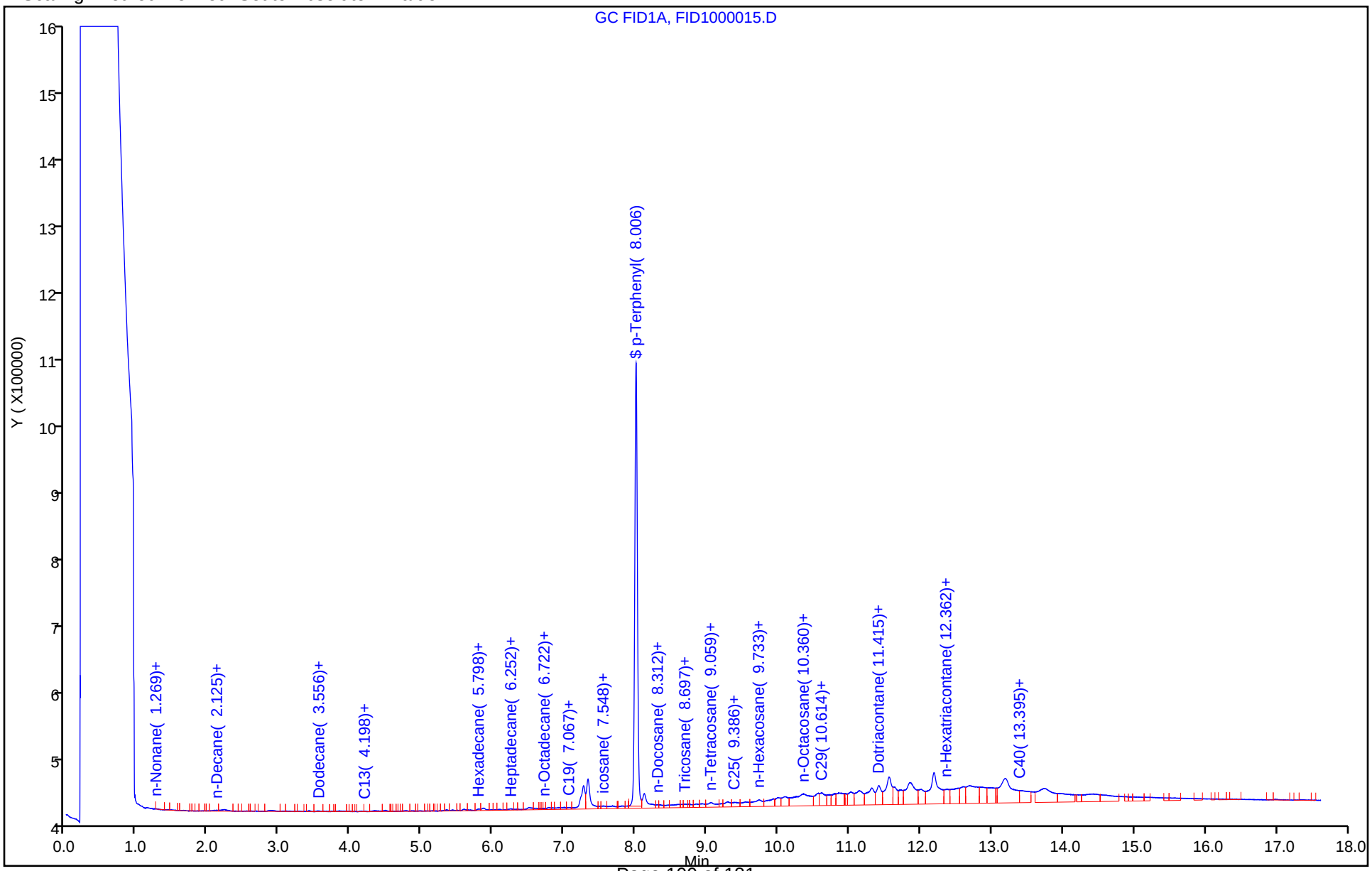
Report Date: 26-Dec-2018 09:35:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000015.D

Injection Date:	24-Dec-2018 14:12:09	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-E-16-A	Lab Sample ID:	720-90446-16	Worklist Smp#:	15
Client ID:	DG-AQ3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000015.D				
Lims ID:	720-90446-E-16-A				
Client ID:	DG-AQ3S-0.5-1				
Sample Type:	Client				
Inject. Date:	24-Dec-2018 14:12:09	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	720-0055820-015				
Operator ID:	RLU	Instrument ID:	CHDRO6		
Method:	\\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\DRO6_A.m				
Limit Group:	DRO				
Last Update:	26-Dec-2018 09:34:35	Calib Date:	24-Dec-2018 08:31:13		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000003.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0302				
First Level Reviewer: hayashid		Date:	26-Dec-2018 09:35:02		

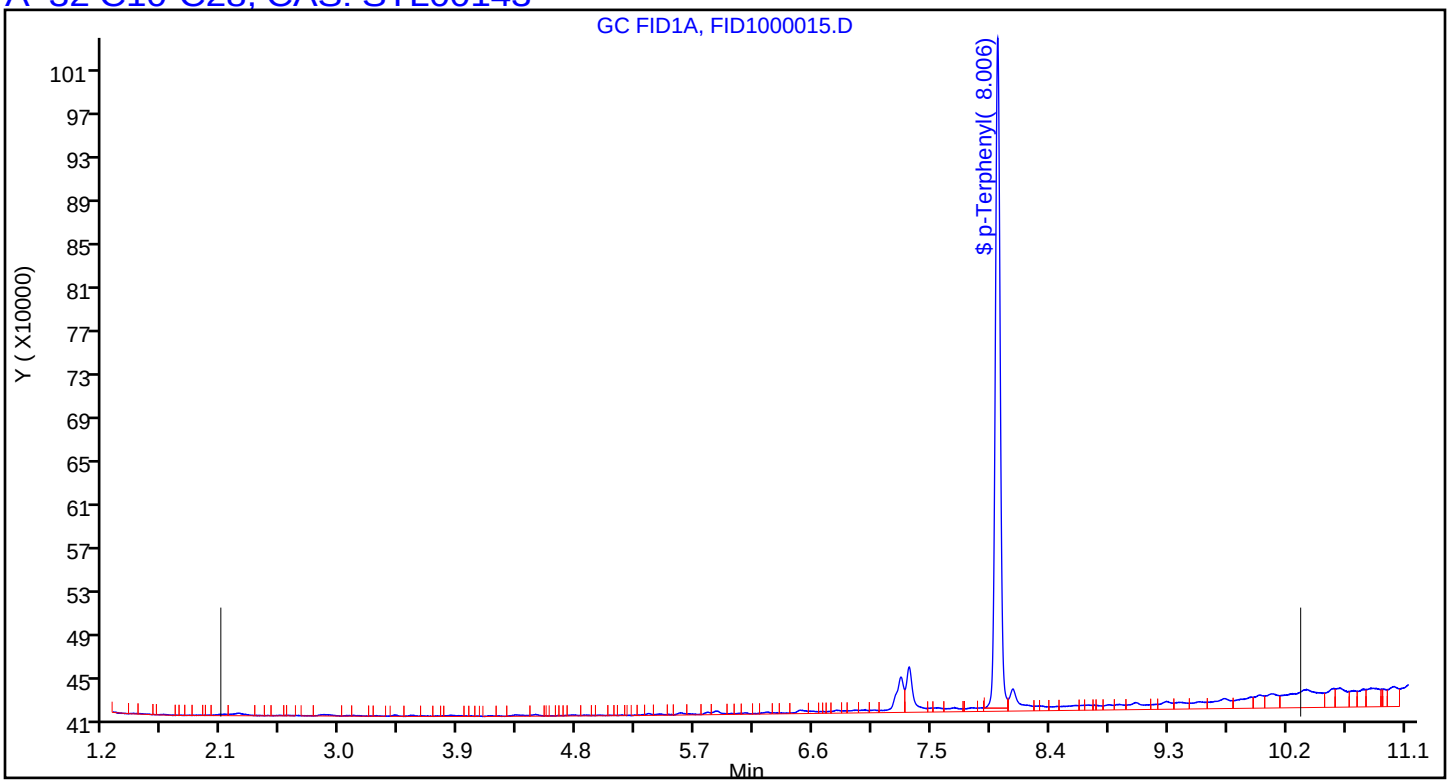
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.9	83.80

Report Date: 26-Dec-2018 09:35:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000015.D				
Injection Date:	24-Dec-2018 14:12:09	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-16-A	Lab Sample ID:	720-90446-16		
Client ID:	DG-AQ3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

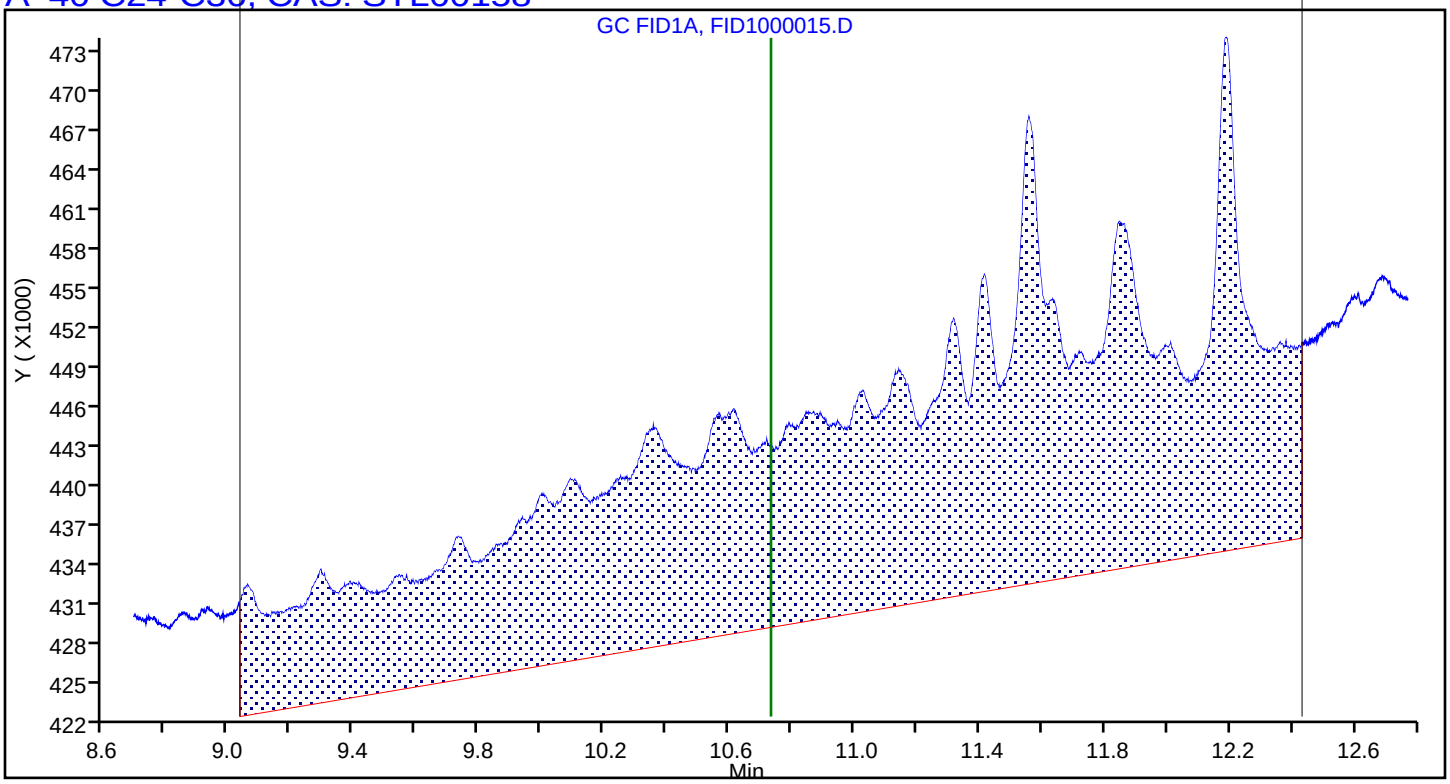


Report Date: 26-Dec-2018 09:35:05 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000015.D				
Injection Date:	24-Dec-2018 14:12:09	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-16-A	Lab Sample ID:	720-90446-16		
Client ID:	DG-AQ3S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000016.D
Lims ID: 720-90446-E-17-A
Client ID: DG-AQ3S-3.5-4
Sample Type: Client
Inject. Date: 24-Dec-2018 14:36:25 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055820-016
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\DRO6_A.m
Limit Group: DRO
Last Update: 26-Dec-2018 09:35:23 Calib Date: 24-Dec-2018 08:31:13
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 09:35:23

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.210			ND	
	23 n-Decane	2.095	2.087	0.008	251857	NC	
A	1 C9-C13	2.698	(1.210-4.186)		2290403	NC	
A	21 Stoddard Solvent	2.698	(1.210-4.186)		2290403	1.73	
A	57 C10-C12	2.826	(2.087-3.566)		1300164	1.02	
	24 Dodecane	3.577	3.566	0.011	286441	NC	
A	3 C9 - C17	3.736	(1.210-6.262)		5203696	3.41	
A	60 C10-C16	3.936	(2.087-5.786)		4236226	3.08	
A	47 C9 - C18	3.961	(1.210-6.711)		6803115	5.69	
A	15 Kerosene	4.175	(1.210-7.139)		8152111	6.81	
A	25 C9-C19	4.175	(1.210-7.139)		8152111	5.32	
	26 C13	4.193	4.186	0.006	261938	NC	
$	27 n-Decanoic Acid (Surr)		4.550			ND	U
A	59 C12-C16	4.676	(3.566-5.786)		2936062	2.30	
A	62 C10-C20	4.818	(2.087-7.550)		11936025	9.36	
A	28 C9-C24	5.122	(1.210-9.034)		27431071	21.5	
A	29 C9-C25	5.290	(1.210-9.371)		32635922	25.6	
A	54 C10-C23	5.385	(2.087-8.684)		24112315	18.9	
A	4 C10-C24	5.560	(2.087-9.034)		27242102	21.4	
A	16 C10-C25	5.729	(2.087-9.371)		32446953	25.4	
	45 Hexadecane	5.788	5.786	0.002	313372	NC	
A	14 C10-C26	5.891	(2.087-9.696)		36819141	28.9	
A	67 C12-C22	5.943	(3.566-8.321)		17446927	13.7	
A	32 C10-C28	6.200	(2.087-10.314)		52396599	41.1	
A	12 Unknown Hydrocarbons	6.200	(2.087-10.314)		52396599	NC	
A	5 Diesel	6.200	(2.087-10.314)		52396599	41.1	
A	30 C13-C22	6.254	(4.186-8.321)		16645657	13.0	
	44 Heptadecane	6.263	6.262	0.001	473409	NC	
A	31 C12-C24	6.300	(3.566-9.034)		25941938	20.3	
	51 n-Octadecane	6.715	6.711	0.004	335578	NC	
A	9 Crude Oil Range Organics (	6.821	(1.210-12.432)		111225418	NC	
A	11 Bunker Range Organics (C9-	6.821	(1.210-12.432)		111225418	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.821	(1.210-12.432)		111225418	NC	
33 C19	7.148	7.139	0.009	774050	NC	
A 64 C13-C28	7.250	(4.186-10.314)		50295165	39.4	
A 17 C10-C36	7.259	(2.087-12.432)		111036449	87.0	
A 68 Crude Oil Range Organics (	7.314	(1.210-13.419)		142792280	NC	
A 13 C9-C40	7.314	(1.210-13.419)		142792280	128.7	
A 58 C16-C24	7.410	(5.786-9.034)		23005876	18.0	
61 icosane	7.555	7.550	0.005	525792	NC	
A 6 C10-C40	7.753	(2.087-13.419)		142603311	128.8	
$ 34 p-Terphenyl	8.006	8.007	-0.001	35442296	23.4	
35 n-Docosane	8.323	8.321	0.002	1097531	NC	
A 18 C12-C40	8.492	(3.566-13.419)		141303147	131.5	
36 Tricosane	8.680	8.684	-0.004	2765413	NC	
A 66 C13-C40	8.802	(4.186-13.419)		140501877	132.7	
37 n-Tetracosane	9.034	9.034	0.000	1881119	NC	
A 2 C16-C36 ORO	9.109	(5.786-12.432)		161232593	186.4	
38 C25	9.375	9.371	0.004	2134071	NC	
A 19 C16-C40	9.602	(5.786-13.419)		138367085	133.2	
46 n-Hexacosane	9.710	9.696	0.014	3002693	NC	
A 20 C19-C36	9.786	(7.139-12.432)		153696691	148.9	
A 55 C23-C32	10.060	(8.684-11.435)		66855045	121.1	
39 n-Octacosane	10.363	10.314	0.049	4026554	NC	
65 C29	10.608	10.608	0.000	5443952	NC	
A 40 C24-C36	10.733	(9.034-12.432)		80577117	113.3	
A 7 Motor Oil	10.733	(9.034-12.432)		80577117	113.3	
A 10 C22-C40	10.870	(8.321-13.419)		114758291	116.3	
A 49 C25-C36	10.901	(9.371-12.432)		78589496	112.7	
A 41 C23-C40	11.051	(8.684-13.419)		121256409	121.3	
A 8 C24-C40	11.226	(9.034-13.419)		115361209	122.2	
56 Dotriacontane	11.433	11.435	-0.002	5954105	NC	
A 50 C28-C40	11.866	(10.314-13.419)		90206712	123.1	
A 63 C29-C40	12.013	(10.608-13.419)		84211455	124.9	
42 n-Hexatriacontane	12.513	12.432	0.081	3416738	NC	
43 C40		13.419			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

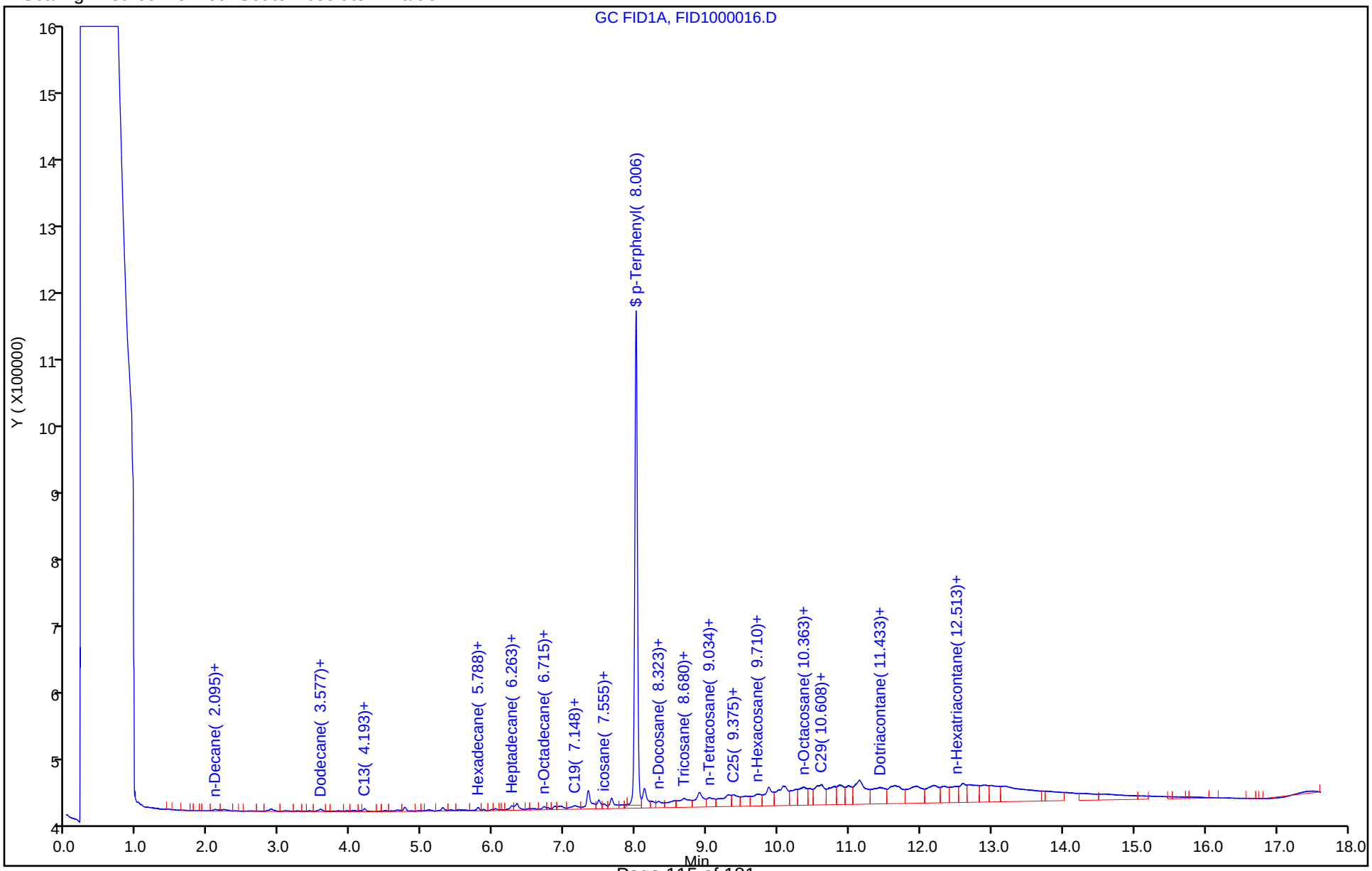
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000016.D

Injection Date:	24-Dec-2018 14:36:25	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-E-17-A	Lab Sample ID:	720-90446-17	Worklist Smp#:	16
Client ID:	DG-AQ3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000016.D
Lims ID: 720-90446-E-17-A
Client ID: DG-AQ3S-3.5-4
Sample Type: Client
Inject. Date: 24-Dec-2018 14:36:25 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055820-016
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\DRO6_A.m
Limit Group: DRO
Last Update: 26-Dec-2018 09:35:23 Calib Date: 24-Dec-2018 08:31:13
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0302

First Level Reviewer: hayashid Date: 26-Dec-2018 09:35:23

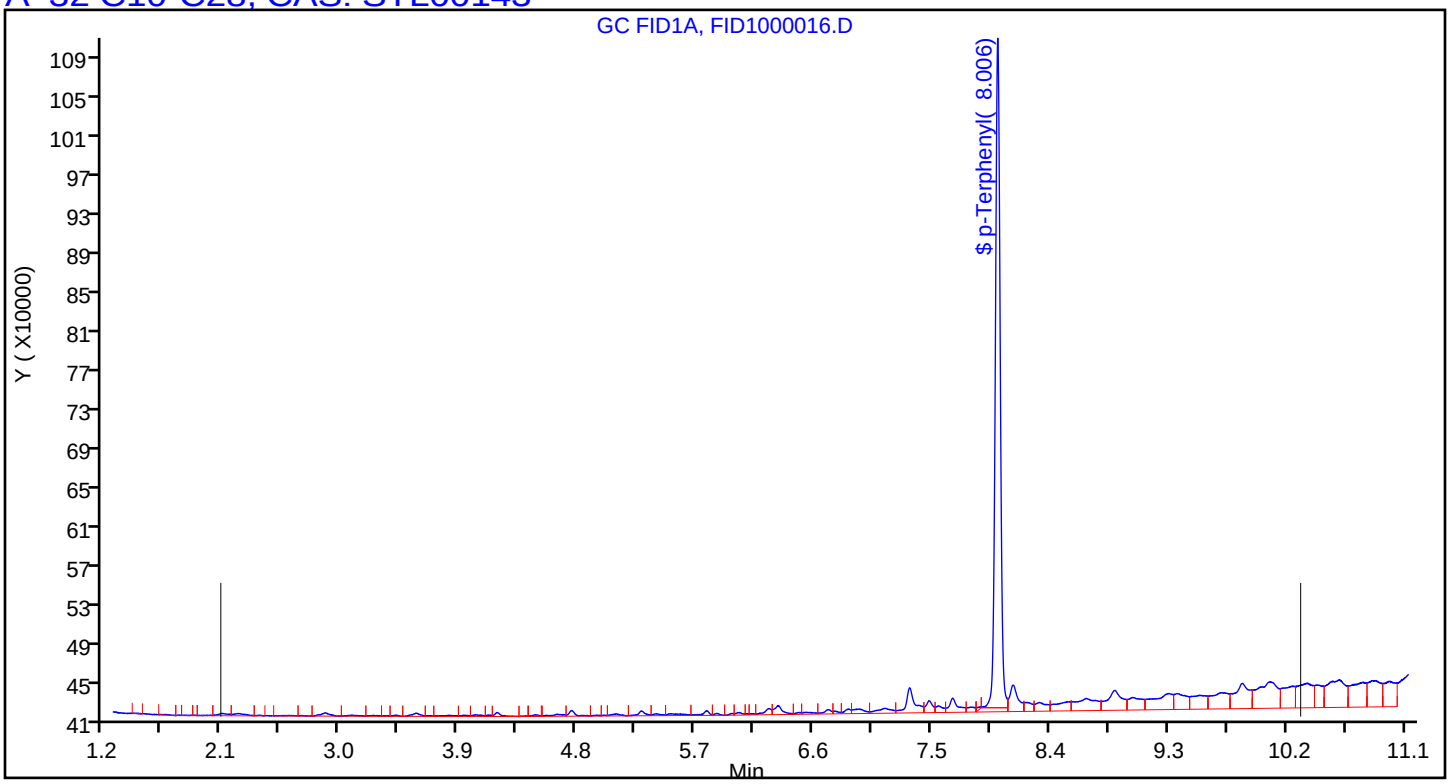
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.4	93.51

Report Date: 26-Dec-2018 09:35:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000016.D				
Injection Date:	24-Dec-2018 14:36:25	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-17-A	Lab Sample ID:	720-90446-17		
Client ID:	DG-AQ3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

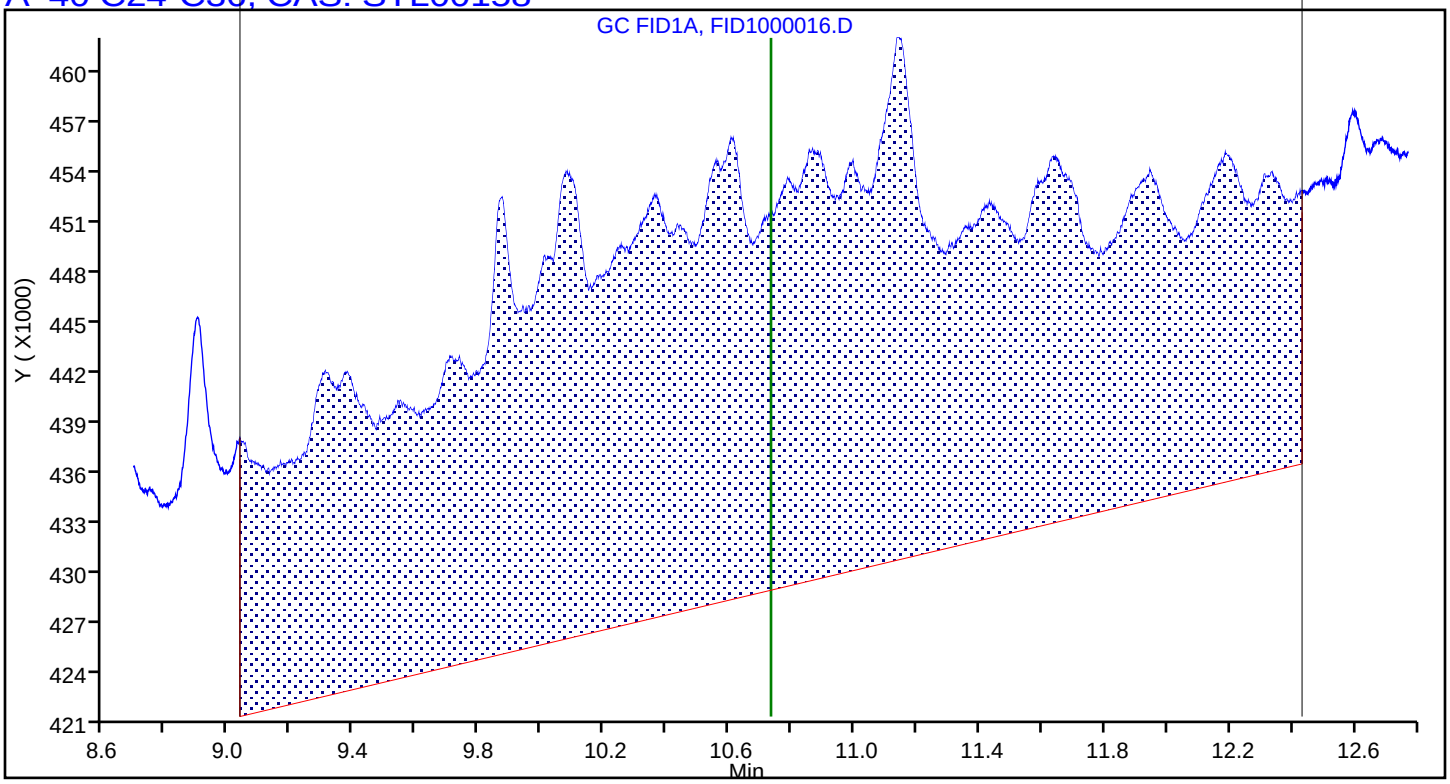


Report Date: 26-Dec-2018 09:35:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181224-55820.b\FID1000016.D				
Injection Date:	24-Dec-2018 14:36:25	Instrument ID:	CHDRO6		
Lims ID:	720-90446-E-17-A	Lab Sample ID:	720-90446-17		
Client ID:	DG-AQ3S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_024.d
Lims ID: 720-90446-F-19-A
Client ID: DG-N4S-8.5-9
Sample Type: Client
Inject. Date: 27-Dec-2018 21:40:42 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0055854-024
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Dec-2018 08:48:12 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 28-Dec-2018 08:48:12

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.617	2.686	-0.069	1437	NC	
	23 n-Decane		3.900			ND	
A	1 C9-C13	4.640	(2.686-6.594)		182582	14.4	
A	21 Stoddard Solvent	4.640	(2.686-6.594)		182582	16.1	
A	57 C10-C12	4.847	(3.900-5.795)		90391	9.21	
	24 Dodecane	5.759	5.795	-0.036	8345	NC	
A	3 C9 - C17	5.994	(2.686-9.301)		718128	50.8	
A	47 C9 - C18	6.281	(2.686-9.877)		883515	78.7	
A	60 C10-C16	6.285	(3.900-8.671)		532045	42.6	
A	15 Kerosene	6.559	(2.686-10.432)		1045359	92.9	
A	25 C9-C19	6.559	(2.686-10.432)		1045359	73.8	
	26 C13	6.545	6.594	-0.049	17941	NC	
$	27 n-Decanoic Acid (Surr)		7.222			ND	U
A	59 C12-C16	7.233	(5.795-8.671)		449999	45.8	
A	62 C10-C20	7.433	(3.900-10.966)		1179680	120.2	
A	28 C9-C24	7.787	(2.686-12.887)		1624227	165.4	
A	29 C9-C25	8.004	(2.686-13.322)		1733889	176.6	
A	54 C10-C23	8.168	(3.900-12.436)		1557015	158.6	
A	4 C10-C24	8.393	(3.900-12.887)		1614052	164.4	
A	16 C10-C25	8.611	(3.900-13.322)		1723714	175.6	
	45 Hexadecane	8.676	8.671	0.005	65075	NC	
A	14 C10-C26	8.820	(3.900-13.741)		1898343	193.3	
A	67 C12-C22	8.881	(5.795-11.966)		1340057	136.5	
A	5 Diesel	9.218	(3.900-14.536)		2167575	220.8	
A	32 C10-C28	9.218	(3.900-14.536)		2167575	220.8	
A	12 Unknown Hydrocarbons	9.218	(3.900-14.536)		2167575	NC	
A	30 C13-C22	9.280	(6.594-11.966)		1267637	129.1	
	44 Heptadecane	9.315	9.301	0.014	62716	NC	
A	31 C12-C24	9.341	(5.795-12.887)		1532006	156.0	
	49 n-Octadecane	9.923	9.877	0.046	57880	NC	
A	52 Mineral oil	9.968	(2.686-17.250)		4280292	394.0	
A	9 Crude Oil Range Organics (	10.032	(2.813-17.250)		4279845	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.968	(2.686-17.250)		4453872	NC	
33 C19	10.435	10.432	0.003	26981	NC	
A 64 C13-C28	10.565	(6.594-14.536)		2013109	205.0	
A 17 C10-C36	10.575	(3.900-17.250)		4443697	452.6	
A 13 C9-C40	10.748	(2.686-18.810)		5108384	505.3	
A 68 Crude Oil Range Organics (	10.748	(2.686-18.810)		5108384	NC	
A 58 C16-C24	10.779	(8.671-12.887)		1082007	110.2	
61 icosane	10.971	10.966	0.005	23052	NC	
A 6 C10-C40	11.355	(3.900-18.810)		5094606	504.5	
$ 34 p-Terphenyl	11.937	11.935	0.002	284059	22.6	
35 n-Docosane		11.966			ND	
A 18 C12-C40	12.303	(5.795-18.810)		4979787	494.7	
36 Tricosane	12.433	12.436	-0.003	37858	NC	
A 66 C13-C40	12.702	(6.594-18.810)		3655974	368.6	
37 n-Tetracosane	12.890	12.887	0.003	35613	NC	
A 2 C16-C36 ORO	12.961	(8.671-17.250)		2460828	333.5	
38 C25	13.322	13.322	0.000	46200	NC	
46 n-Hexacosane	13.739	13.741	-0.002	25508	NC	
A 19 C16-C40	13.741	(8.671-18.810)		4414195	441.0	
A 20 C19-C36	13.841	(10.432-17.250)		1691846	217.0	
A 55 C23-C32	14.206	(12.436-15.976)		966666	224.4	
39 n-Octacosane	14.539	14.536	0.003	34413	NC	
65 C29	14.908	14.913	-0.005	126829	NC	
A 40 C24-C36	15.069	(12.887-17.250)		1895733	302.5	M
A 7 Motor Oil	15.069	(12.887-17.250)		1523038	243.0	
A 50 C25-C36	15.286	(13.322-17.250)		1459302	246.2	
A 10 C22-C40	15.388	(11.966-18.810)		1904694	214.9	
A 41 C23-C40	15.623	(12.436-18.810)		2131453	246.2	
A 8 C24-C40	15.849	(12.887-18.810)		2081094	248.7	
56 Dotriacontane	15.927	15.976	-0.049	94876	NC	
A 51 C28-C40	16.673	(14.536-18.810)		1701101	255.7	
A 63 C29-C40	16.862	(14.913-18.810)		1588408	260.5	
42 n-Hexatriacontane		17.250			ND	
43 C40		18.810			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

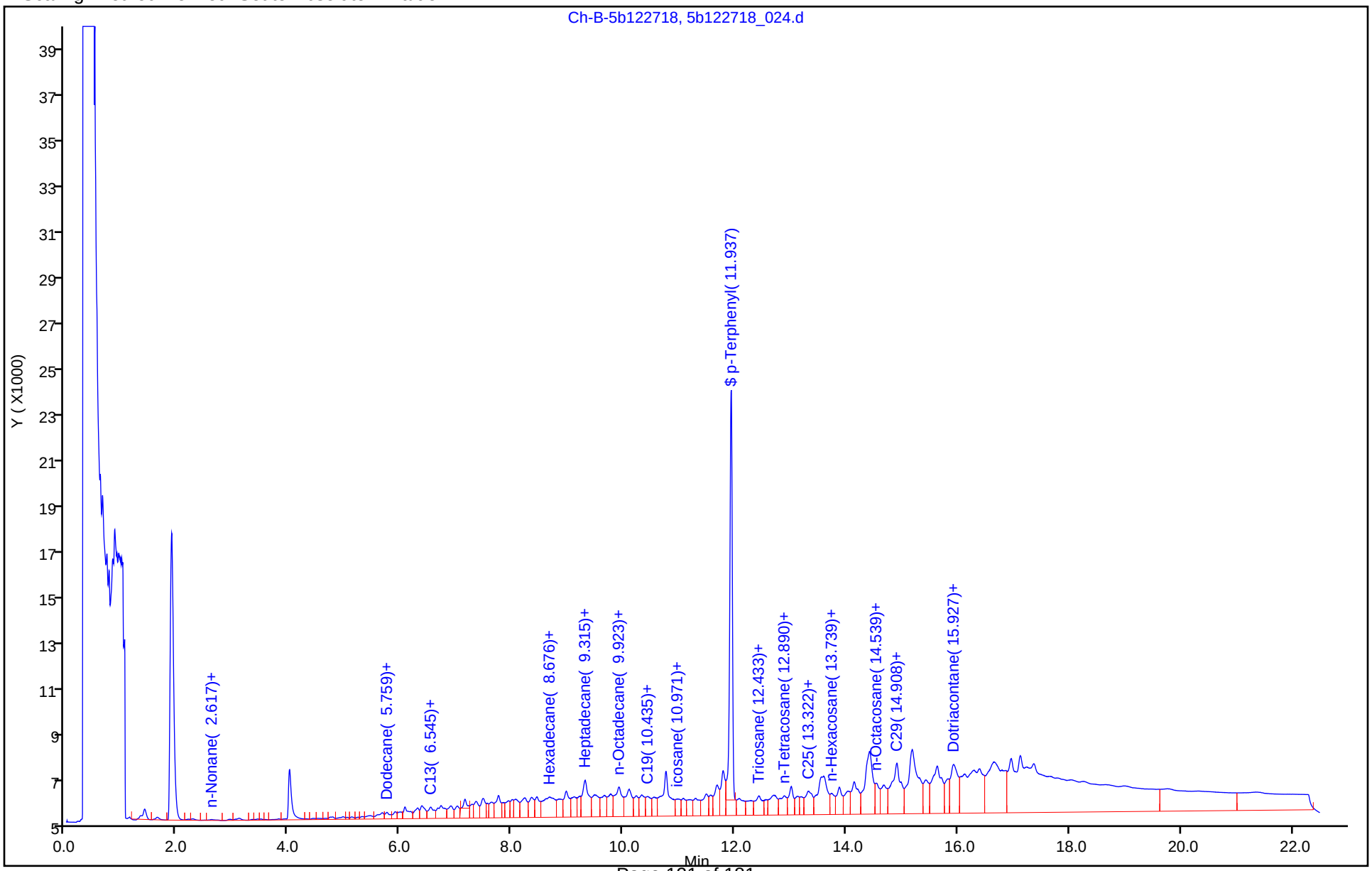
U - Marked Undetected

Report Date: 28-Dec-2018 08:48:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_024.d				
Injection Date:	27-Dec-2018 21:40:42	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90446-F-19-A	Lab Sample ID:	720-90446-19	Worklist Smp#:	24
Client ID:	DG-N4S-8.5-9				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_024.d				
Lims ID:	720-90446-F-19-A				
Client ID:	DG-N4S-8.5-9				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 21:40:42	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0055854-024				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 08:48:12	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0332				

First Level Reviewer: hayashid Date: 28-Dec-2018 08:48:12

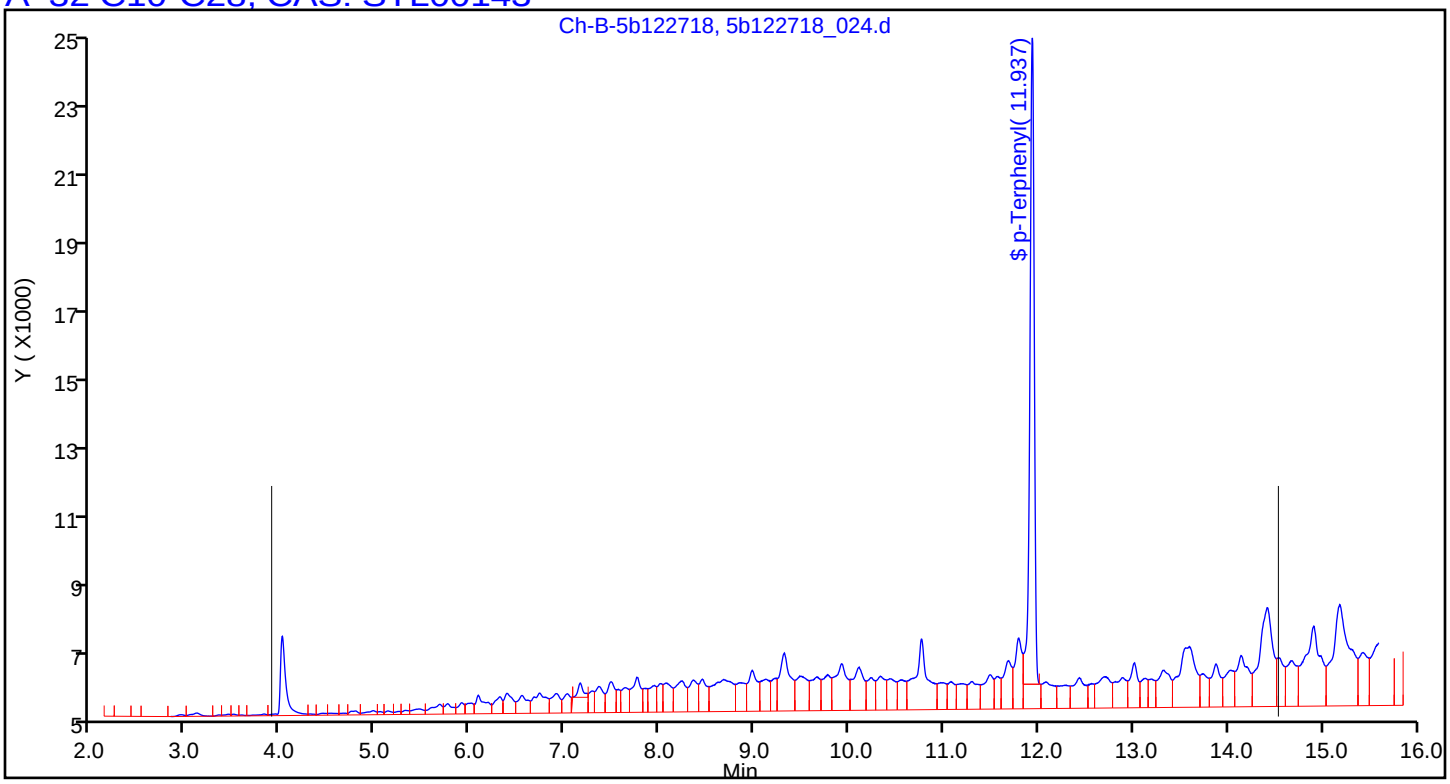
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.6	90.23

Report Date: 28-Dec-2018 08:48:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_024.d				
Injection Date:	27-Dec-2018 21:40:42	Instrument ID:	CHDRO5		
Lims ID:	720-90446-F-19-A	Lab Sample ID:	720-90446-19		
Client ID:	DG-N4S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

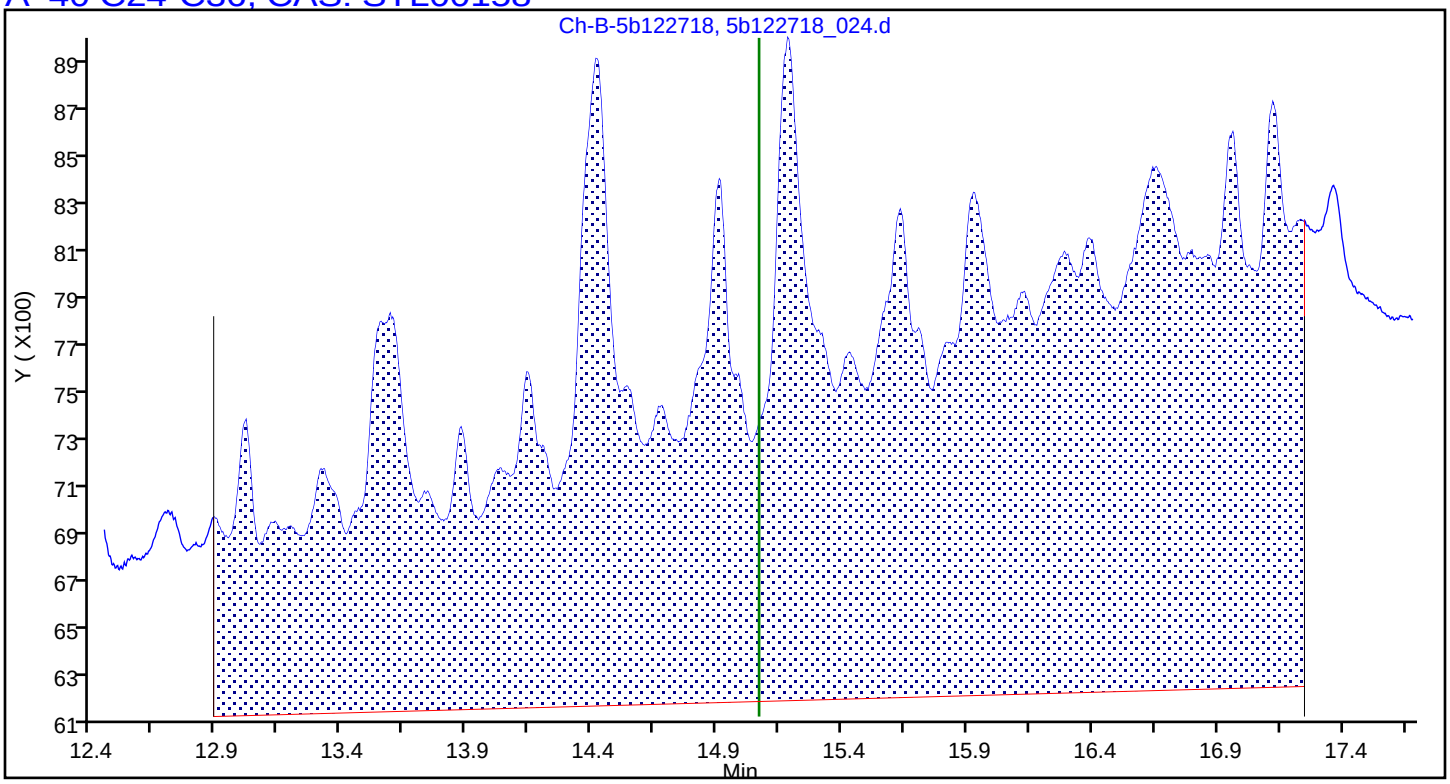


Report Date: 28-Dec-2018 08:48:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_024.d				
Injection Date:	27-Dec-2018 21:40:42	Instrument ID:	CHDRO5		
Lims ID:	720-90446-F-19-A	Lab Sample ID:	720-90446-19		
Client ID:	DG-N4S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

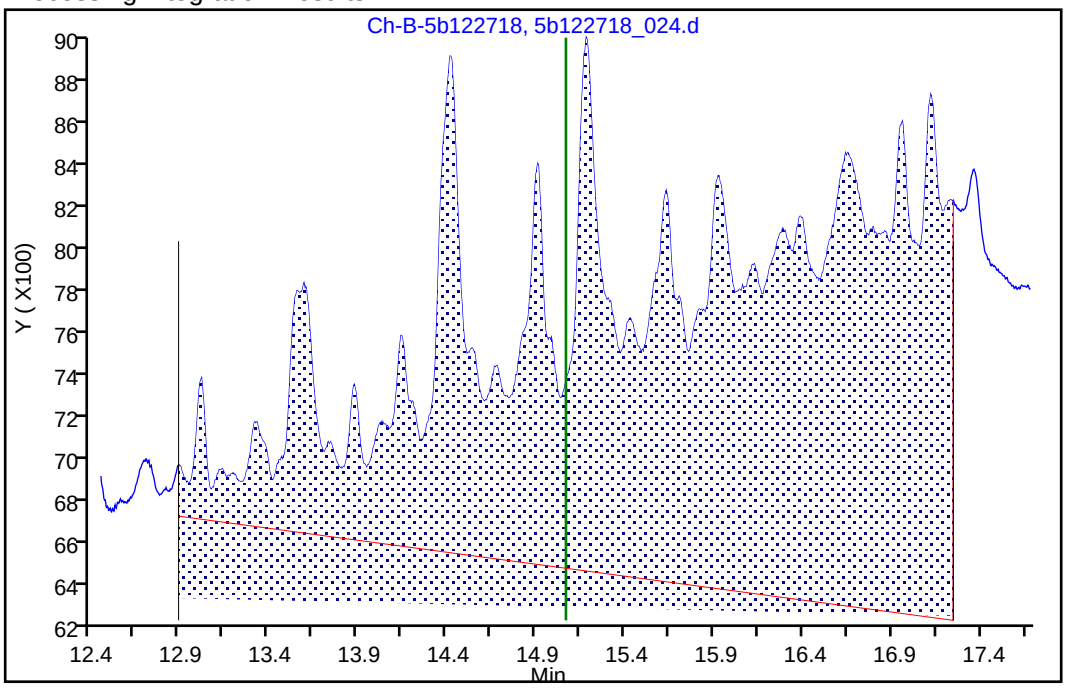
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55854.b\5b122718_024.d				
Injection Date:	27-Dec-2018 21:40:42	Instrument ID:	CHDRO5		
Lims ID:	720-90446-F-19-A	Lab Sample ID:	720-90446-19		
Client ID:	DG-N4S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.069, CAS: STL00158

Signal: 1

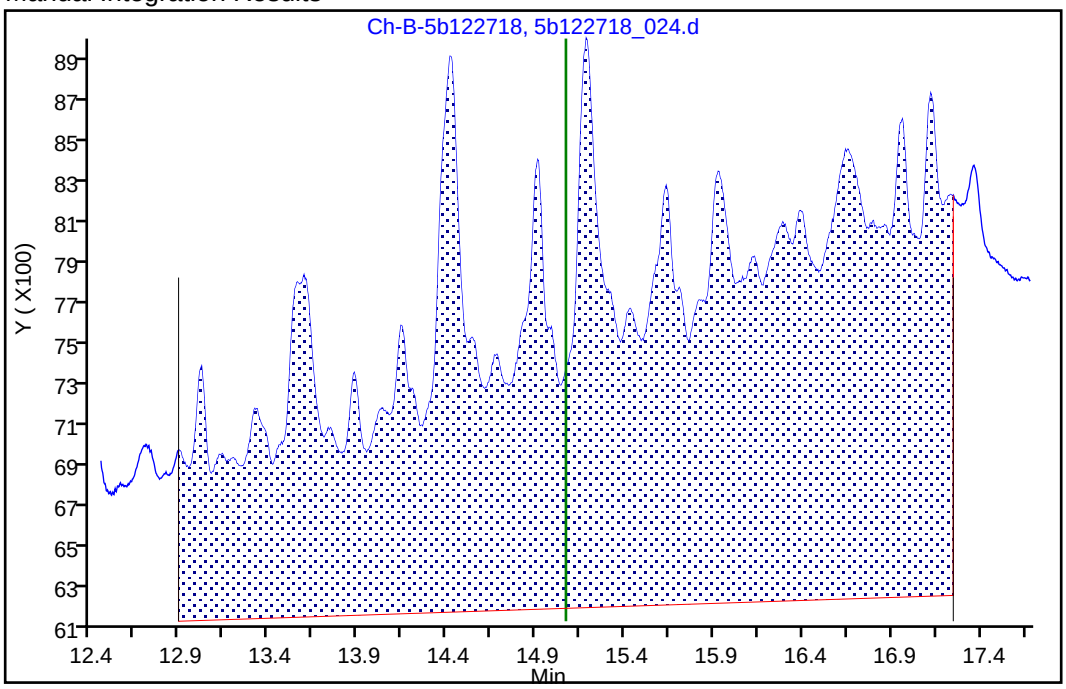
Processing Integration Results

RT: 15.07
Response: 1523038
Amount: 243.0370



Manual Integration Results

RT: 15.07
Response: 1895733
Amount: 302.5093



Reviewer: hayashid, 28-Dec-2018 08:48:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000020.D
Lims ID: 720-90446-F-20-A
Client ID: DG-N4S-4.5-5
Sample Type: Client
Inject. Date: 27-Dec-2018 20:22:48 ALS Bottle#: 70 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 720-0055856-020
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\DRO6_B.m
Limit Group: DRO
Last Update: 28-Dec-2018 06:43:09 Calib Date: 27-Dec-2018 13:28:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000010.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 28-Dec-2018 06:43:09

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.348	1.358	-0.010	192247	NC	
	23 n-Decane	2.213	2.204	0.009	687426	NC	
A	21 Stoddard Solvent	2.807	(1.358-4.257)		282899322	118.8	
A	1 C9-C13	2.807	(1.358-4.257)		282899322	NC	
A	57 C10-C12	2.925	(2.204-3.646)		101894252	51.5	
	24 Dodecane	3.553	3.646	-0.093	22473656	NC	
A	3 C9 - C17	3.833	(1.358-6.308)		1353193113	471.3	
A	60 C10-C16	4.021	(2.204-5.838)		1098876642	429.3	
A	47 C9 - C18	4.056	(1.358-6.754)		1613964432	711.4	
	26 C13	4.281	4.257	0.024	19058772	NC	
A	25 C9-C19	4.268	(1.358-7.178)		1812281008	627.4	
A	15 Kerosene	4.268	(1.358-7.178)		1812281008	797.5	
$	27 n-Decanoic Acid (Surr)		4.608			ND	U
A	59 C12-C16	4.742	(3.646-5.838)		996982390	504.2	
A	61 C10-C20	4.894	(2.204-7.585)		1972942837	997.7	
A	28 C9-C24	5.205	(1.358-9.051)		2108783017	1066.4	
A	29 C9-C25	5.371	(1.358-9.383)		2124070983	1074.1	
A	54 C10-C23	5.455	(2.204-8.706)		2088306518	1056.0	
A	4 C10-C24	5.628	(2.204-9.051)		2103427732	1063.7	
A	16 C10-C25	5.794	(2.204-9.383)		2118715698	1071.4	
	45 Hexadecane	5.794	5.838	-0.044	92771699	NC	
A	14 C10-C26	5.954	(2.204-9.704)		2118715698	1071.4	
A	67 C12-C22	5.997	(3.646-8.348)		1965832148	994.1	
A	32 C10-C28	6.258	(2.204-10.312)		2121868568	1073.0	
A	12 Unknown Hydrocarbons	6.258	(2.204-10.312)		2121868568	NC	
A	5 Diesel	6.258	(2.204-10.312)		2121868568	1073.0	
A	30 C13-C22	6.302	(4.257-8.348)		1790182363	905.3	
	44 Heptadecane	6.351	6.308	0.043	83890283	NC	
A	31 C12-C24	6.348	(3.646-9.051)		2001533480	1012.2	
	49 n-Octadecane	6.709	6.754	-0.045	36545670	NC	
A	52 Mineral oil	6.875	(1.358-12.392)		2130303850	925.6	
A	11 Bunker Range Organics (C9-	6.875	(1.358-12.392)		2130303850	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.358-12.392)		2130303850	NC	
33 C19	7.157	7.178	-0.021	32312153	NC	
A 64 C13-C28	7.284	(4.257-10.312)		1844324531	932.7	
A 17 C10-C36	7.298	(2.204-12.392)		2124948565	1074.6	
A 13 C9-C40	7.363	(1.358-13.369)		2132237651	1202.9	
A 68 Crude Oil Range Organics (	7.363	(1.358-13.369)		2132237651	NC	
A 58 C16-C24	7.445	(5.838-9.051)		1097322789	554.9	
62 icosane	7.529	7.585	-0.056	68753943	NC	
A 6 C10-C40	7.786	(2.204-13.369)		2126882366	1201.2	
$ 34 p-Terphenyl		8.042			ND	U
35 n-Docosane	8.252	8.348	-0.096	25960237	NC	
A 18 C12-C40	8.507	(3.646-13.369)		2024988114	1147.9	
36 Tricosane	8.776	8.706	0.070	15121214	NC	
A 66 C13-C40	8.813	(4.257-13.369)		1849338329	1049.2	
37 n-Tetracosane		9.051			ND	
A 2 C16-C36 ORO	9.115	(5.838-12.392)		1118843622	826.3	
38 C25		9.383			ND	
A 19 C16-C40	9.603	(5.838-13.369)		1120777423	637.2	
46 n-Hexacosane		9.704			ND	
A 20 C19-C36	9.785	(7.178-12.392)		306933898	190.7	
A 55 C23-C32	10.060	(8.706-11.414)		56302820	63.5	
39 n-Octacosane	10.325	10.312	0.013	482701	NC	
65 C29	10.597	10.601	-0.004	497352	NC	
A 7 Motor Oil	10.722	(9.051-12.392)		17629714	15.2	
A 40 C24-C36	10.722	(9.051-12.392)		27774489	24.0	M
A 10 C22-C40	10.858	(8.348-13.369)		70417359	43.5	
A 50 C25-C36	10.888	(9.383-12.392)		9890897	9.14	
A 41 C23-C40	11.037	(8.706-13.369)		42837654	27.0	
A 8 C24-C40	11.210	(9.051-13.369)		24471206	15.7	
56 Dotriacontane	11.423	11.414	0.009	103938	NC	
A 51 C28-C40	11.840	(10.312-13.369)		11603628	9.33	
A 63 C29-C40	11.985	(10.601-13.369)		11690674	10.2	
42 n-Hexatriacontane		12.392			ND	
43 C40		13.369			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

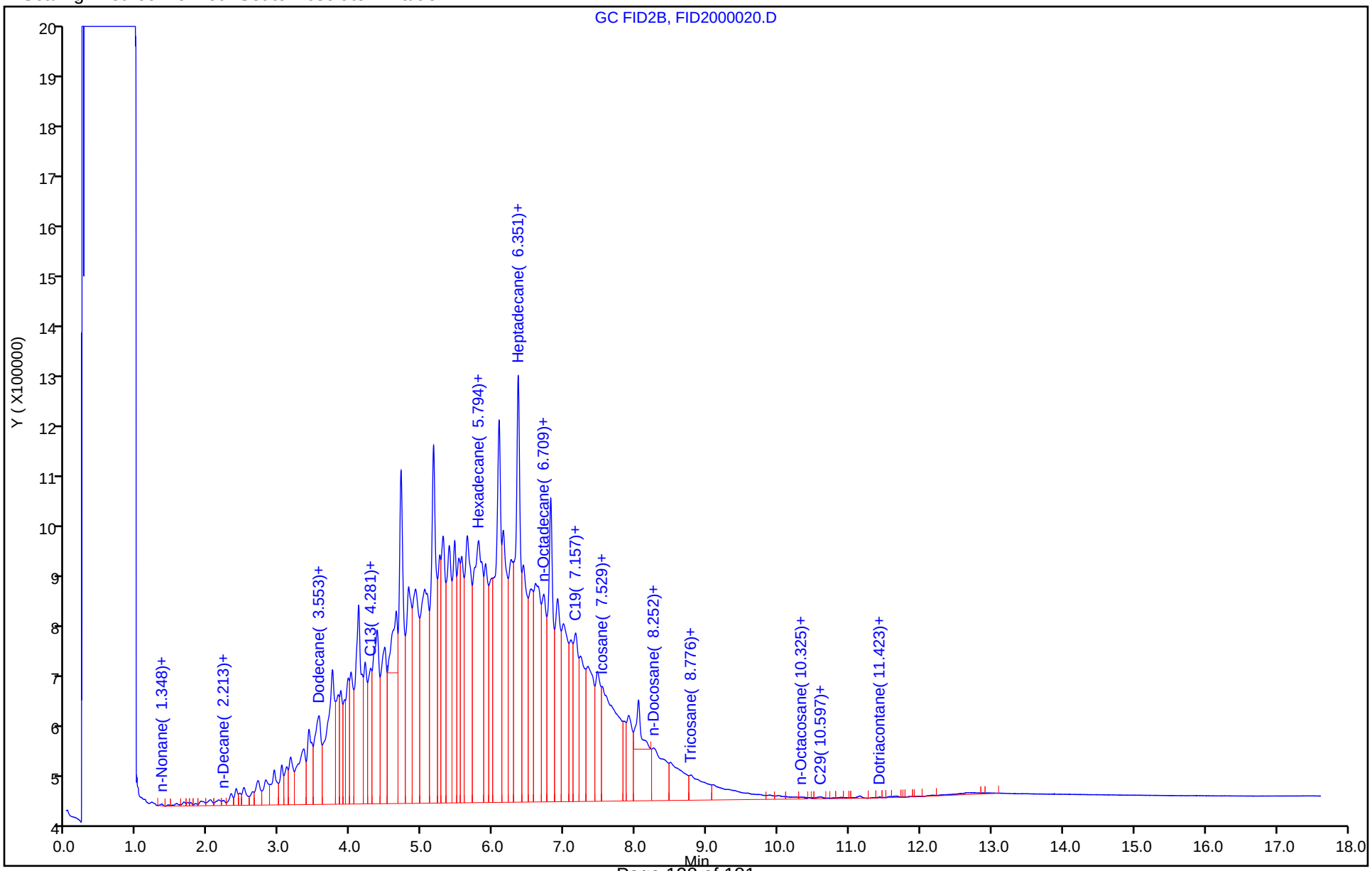
U - Marked Undetected

Report Date: 28-Dec-2018 06:43:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-F-20-A	Lab Sample ID:	720-90446-20	Worklist Smp#:	20
Client ID:	DG-N4S-4.5-5				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	70
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

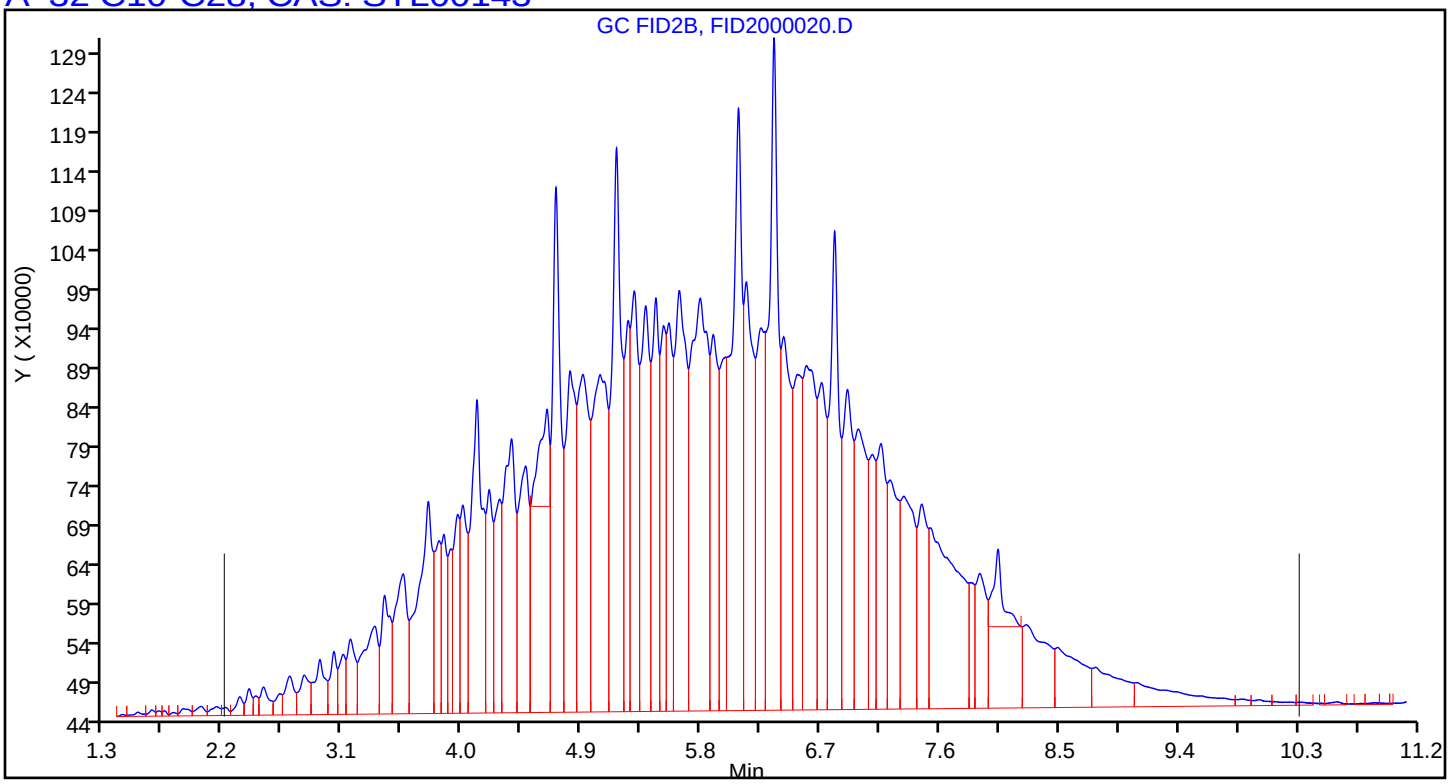


Report Date: 28-Dec-2018 06:43:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-20-A	Lab Sample ID:	720-90446-20		
Client ID:	DG-N4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	70	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

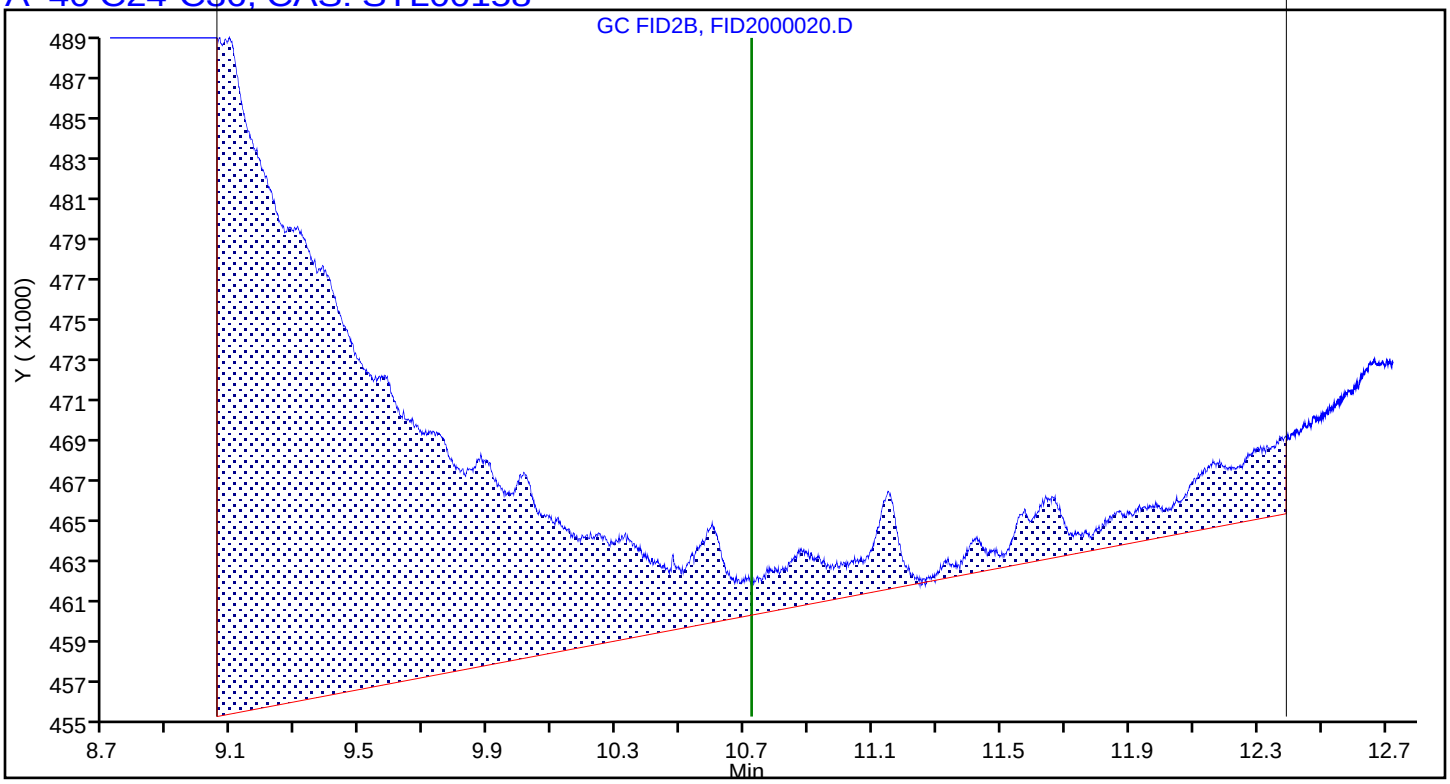


Report Date: 28-Dec-2018 06:43:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-20-A	Lab Sample ID:	720-90446-20		
Client ID:	DG-N4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	70	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Report Date: 28-Dec-2018 06:43:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000020.D

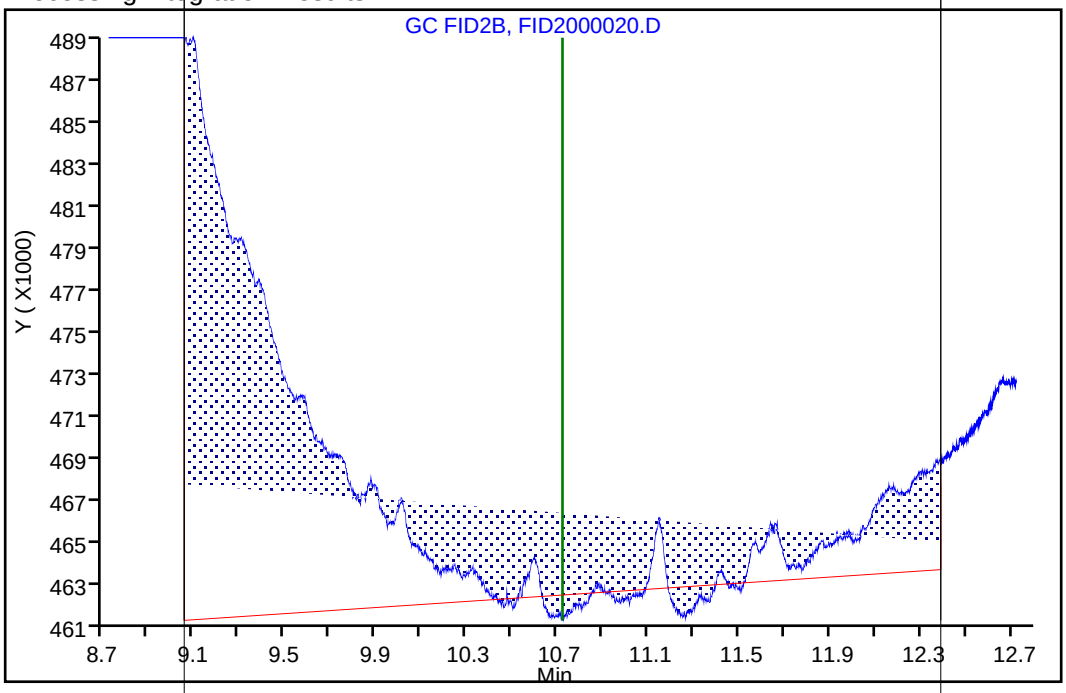
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6
Lims ID:	720-90446-F-20-A	Lab Sample ID:	720-90446-20
Client ID:	DG-N4S-4.5-5		
Operator ID:	RLU	ALS Bottle#:	70 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	DRO6_B	Limit Group:	DRO
Column:		Detector	GC FID1A

A 40 C24-C36, RT: 10.722, CAS: STL00158

Signal: 1

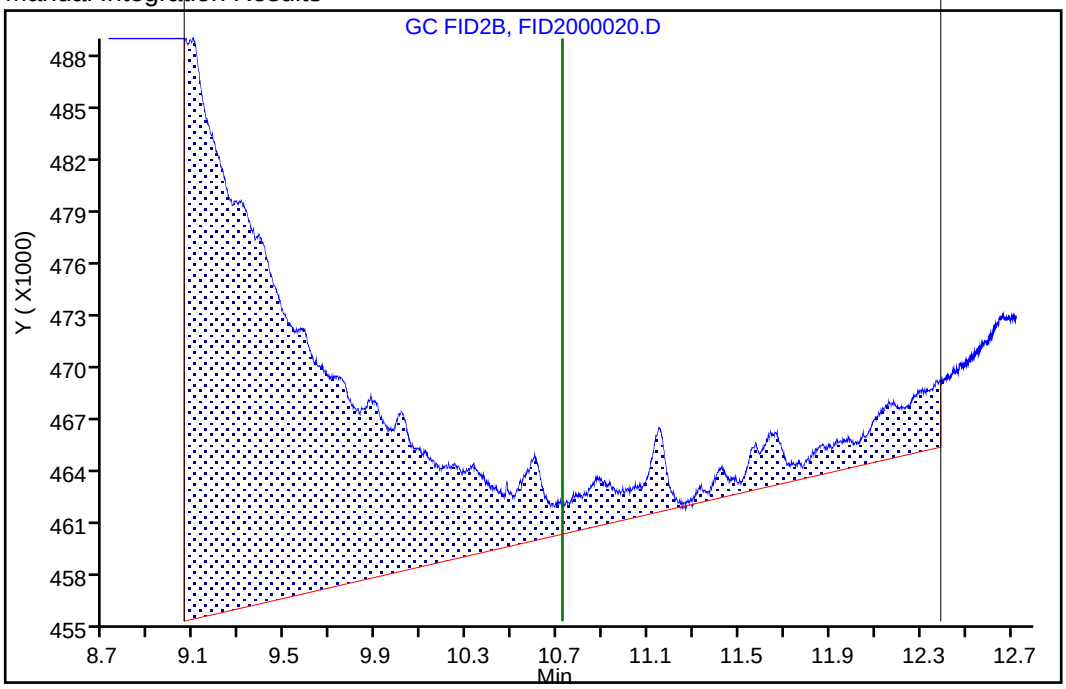
Processing Integration Results

RT: 10.72
Response: 17629714
Amount: 15.239992



Manual Integration Results

RT: 10.72
Response: 27774489
Amount: 24.009635



Reviewer: hayashid, 28-Dec-2018 06:43:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

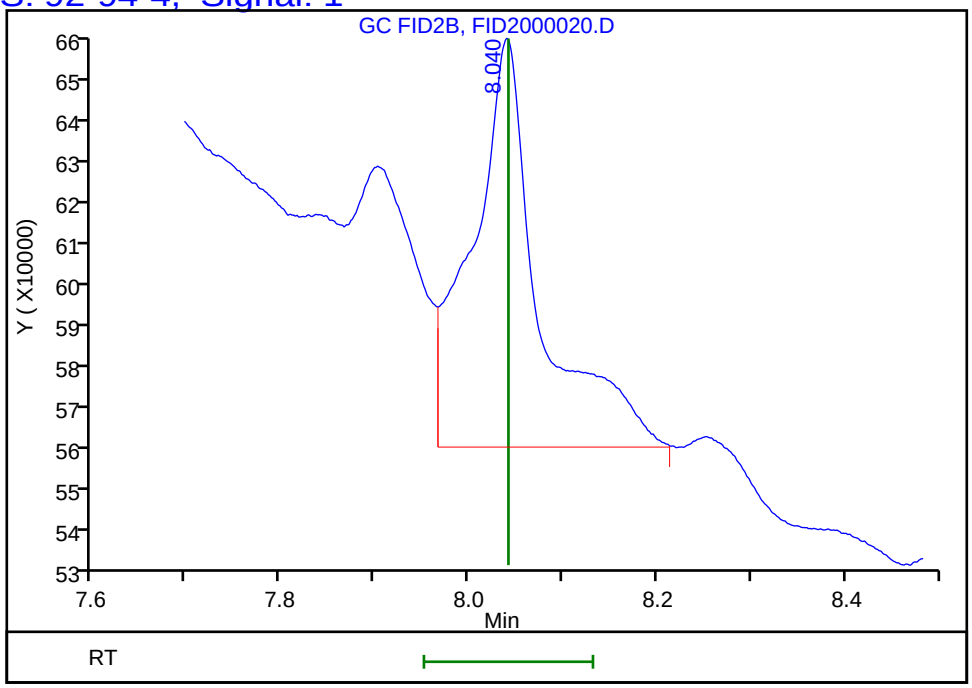
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-20-A	Lab Sample ID:	720-90446-20		
Client ID:	DG-N4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	70	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.04
Response: 9770545
Amount: 4.148740



Reviewer: hayashid, 28-Dec-2018 06:43:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000023.D
Lims ID: 720-90446-F-21-A
Client ID: DG-P4S-4.5-5
Sample Type: Client
Inject. Date: 27-Dec-2018 21:36:07 ALS Bottle#: 73 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 720-0055856-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\DRO6_B.m
Limit Group: DRO
Last Update: 28-Dec-2018 06:44:42 Calib Date: 27-Dec-2018 13:28:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000010.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 28-Dec-2018 06:44:42

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.348	1.358	-0.010	117950	NC	
	23 n-Decane	2.215	2.204	0.011	1088562	NC	
A	21 Stoddard Solvent	2.807	(1.358-4.257)		351637786	147.7	
A	1 C9-C13	2.807	(1.358-4.257)		351637786	NC	
A	57 C10-C12	2.925	(2.204-3.646)		121381425	61.4	
	24 Dodecane	3.739	3.646	0.093	49675954	NC	
A	3 C9 - C17	3.833	(1.358-6.308)		1739628284	605.8	
A	60 C10-C16	4.021	(2.204-5.838)		1432424670	559.6	
A	47 C9 - C18	4.056	(1.358-6.754)		2061519784	908.7	
	26 C13	4.285	4.257	0.028	28990304	NC	
A	25 C9-C19	4.268	(1.358-7.178)		2295186186	794.6	
A	15 Kerosene	4.268	(1.358-7.178)		2295186186	1010.0	
$	27 n-Decanoic Acid (Surr)		4.608			ND	U
A	59 C12-C16	4.742	(3.646-5.838)		1311043245	663.0	
A	61 C10-C20	4.894	(2.204-7.585)		2425447522	1226.5	
A	28 C9-C24	5.205	(1.358-9.051)		2693659104	1362.2	
A	29 C9-C25	5.371	(1.358-9.383)		2693659104	1362.2	
A	54 C10-C23	5.455	(2.204-8.706)		2644067868	1337.1	
A	4 C10-C24	5.628	(2.204-9.051)		2688594639	1359.6	
A	16 C10-C25	5.794	(2.204-9.383)		2688594639	1359.6	
	45 Hexadecane	5.838	5.838	0.000	27358452	NC	
A	14 C10-C26	5.954	(2.204-9.704)		2688594639	1359.6	
A	67 C12-C22	5.997	(3.646-8.348)		2493344843	1260.9	
A	32 C10-C28	6.258	(2.204-10.312)		2694283185	1362.5	
A	12 Unknown Hydrocarbons	6.258	(2.204-10.312)		2694283185	NC	
A	5 Diesel	6.258	(2.204-10.312)		2694283185	1362.5	
A	30 C13-C22	6.302	(4.257-8.348)		2268152947	1147.0	
	44 Heptadecane	6.351	6.308	0.043	100474695	NC	
A	31 C12-C24	6.348	(3.646-9.051)		2567213214	1298.2	
	49 n-Octadecane	6.710	6.754	-0.044	45624121	NC	
A	52 Mineral oil	6.875	(1.358-12.392)		2704081930	1174.9	
A	11 Bunker Range Organics (C9-	6.875	(1.358-12.392)		2704081930	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.358-12.392)		2704081930	NC	
33 C19	7.157	7.178	-0.021	37010529	NC	
A 64 C13-C28	7.284	(4.257-10.312)		2347709864	1187.2	
A 17 C10-C36	7.298	(2.204-12.392)		2699017465	1364.9	
A 13 C9-C40	7.363	(1.358-13.369)		2708960240	1528.2	
A 68 Crude Oil Range Organics (	7.363	(1.358-13.369)		2708960240	NC	
A 58 C16-C24	7.445	(5.838-9.051)		1283528421	649.1	
62 icosane	7.586	7.585	0.001	69744121	NC	
A 6 C10-C40	7.786	(2.204-13.369)		2703895775	1527.1	
$ 34 p-Terphenyl		8.042			ND	U
35 n-Docosane	8.255	8.348	-0.093	33463661	NC	
A 18 C12-C40	8.507	(3.646-13.369)		2582514350	1463.9	
36 Tricosane	8.775	8.706	0.069	44526771	NC	
A 66 C13-C40	8.813	(4.257-13.369)		2357322454	1337.4	
37 n-Tetracosane		9.051			ND	
A 2 C16-C36 ORO	9.115	(5.838-12.392)		1293951247	955.6	
38 C25		9.383			ND	
A 19 C16-C40	9.603	(5.838-13.369)		1298829557	738.4	
46 n-Hexacosane		9.704			ND	
A 20 C19-C36	9.785	(7.178-12.392)		395088923	245.4	
A 55 C23-C32	10.060	(8.706-11.414)		83211554	93.8	
39 n-Octacosane	10.317	10.312	0.005	764277	NC	
65 C29	10.604	10.601	0.003	1051266	NC	
A 7 Motor Oil	10.722	(9.051-12.392)		28292006	24.5	
A 40 C24-C36	10.722	(9.051-12.392)		46422708	40.1	M
A 10 C22-C40	10.858	(8.348-13.369)		97524621	60.2	
A 50 C25-C36	10.888	(9.383-12.392)		16391545	15.1	
A 41 C23-C40	11.037	(8.706-13.369)		59490617	37.5	
A 8 C24-C40	11.210	(9.051-13.369)		34151697	22.0	
56 Dotriacontane	11.419	11.414	0.005	107048	NC	
A 51 C28-C40	11.840	(10.312-13.369)		11517532	9.26	
A 63 C29-C40	11.985	(10.601-13.369)		10748020	9.41	
42 n-Hexatriacontane		12.392			ND	
43 C40		13.369			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

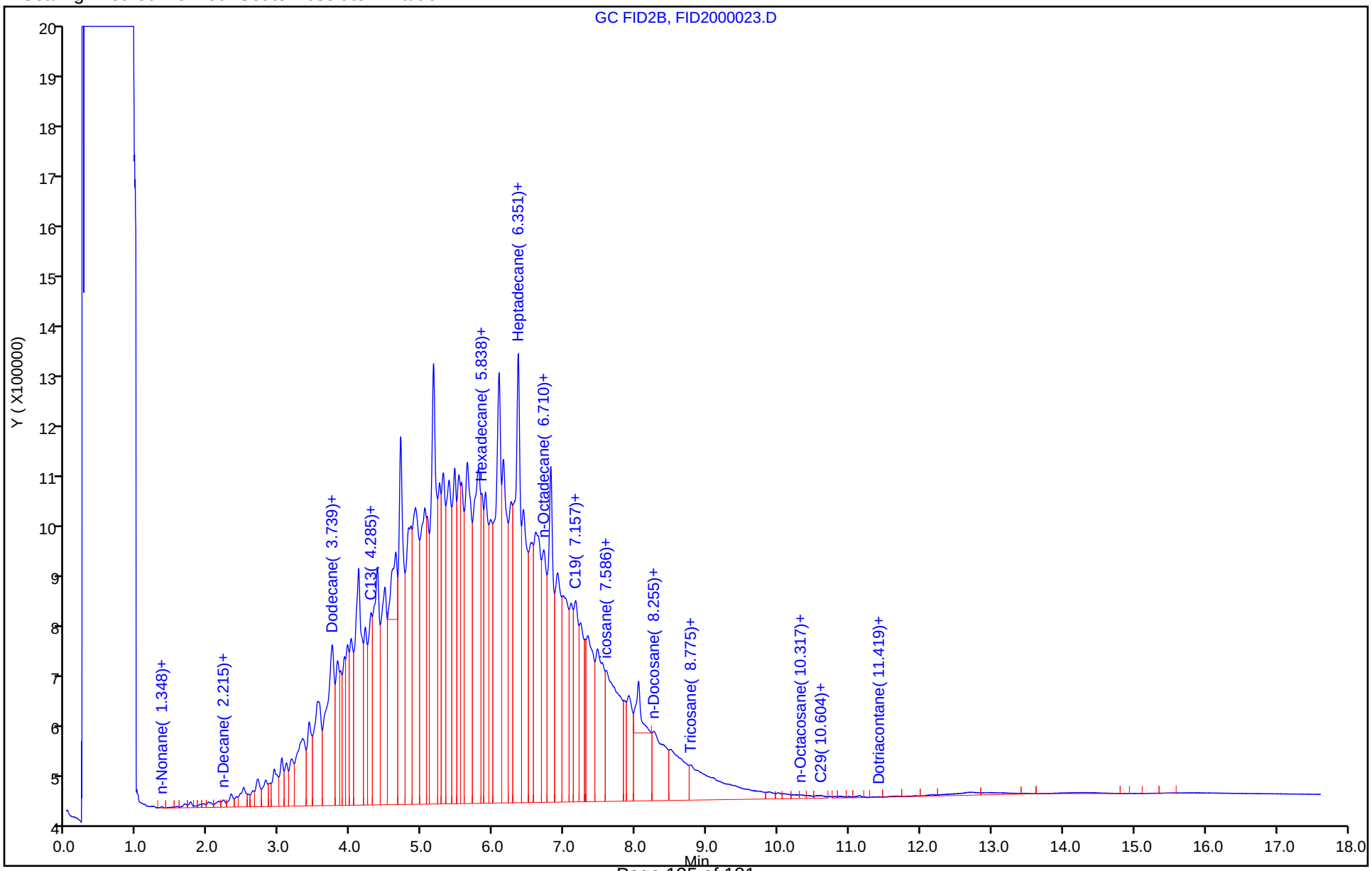
Report Date: 28-Dec-2018 06:44:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000023.D

Injection Date:	27-Dec-2018 21:36:07	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-F-21-A	Lab Sample ID:	720-90446-21	Worklist Smp#:	23
Client ID:	DG-P4S-4.5-5				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	73
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

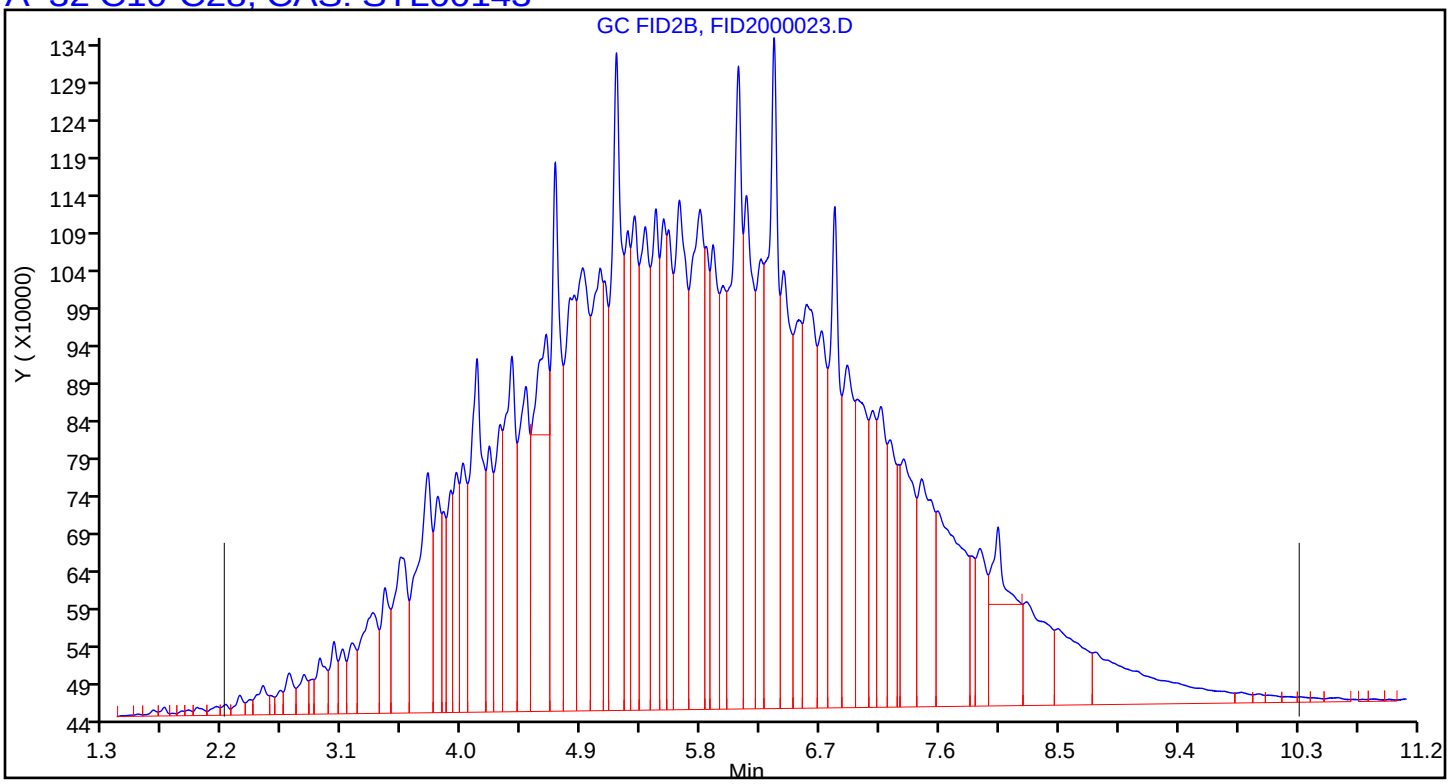


Report Date: 28-Dec-2018 06:44:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000023.D				
Injection Date:	27-Dec-2018 21:36:07	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-21-A	Lab Sample ID:	720-90446-21		
Client ID:	DG-P4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

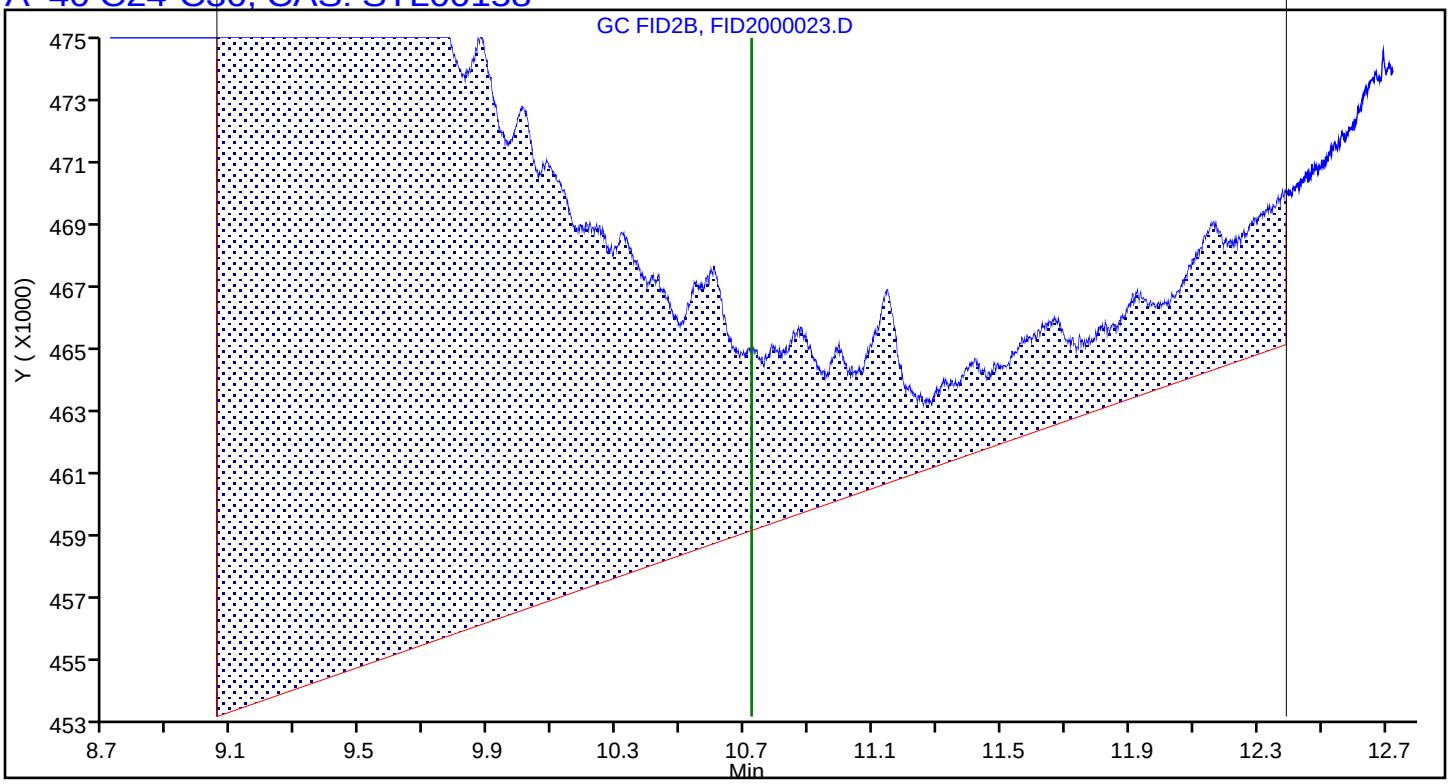


Report Date: 28-Dec-2018 06:44:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000023.D				
Injection Date:	27-Dec-2018 21:36:07	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-21-A	Lab Sample ID:	720-90446-21		
Client ID:	DG-P4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

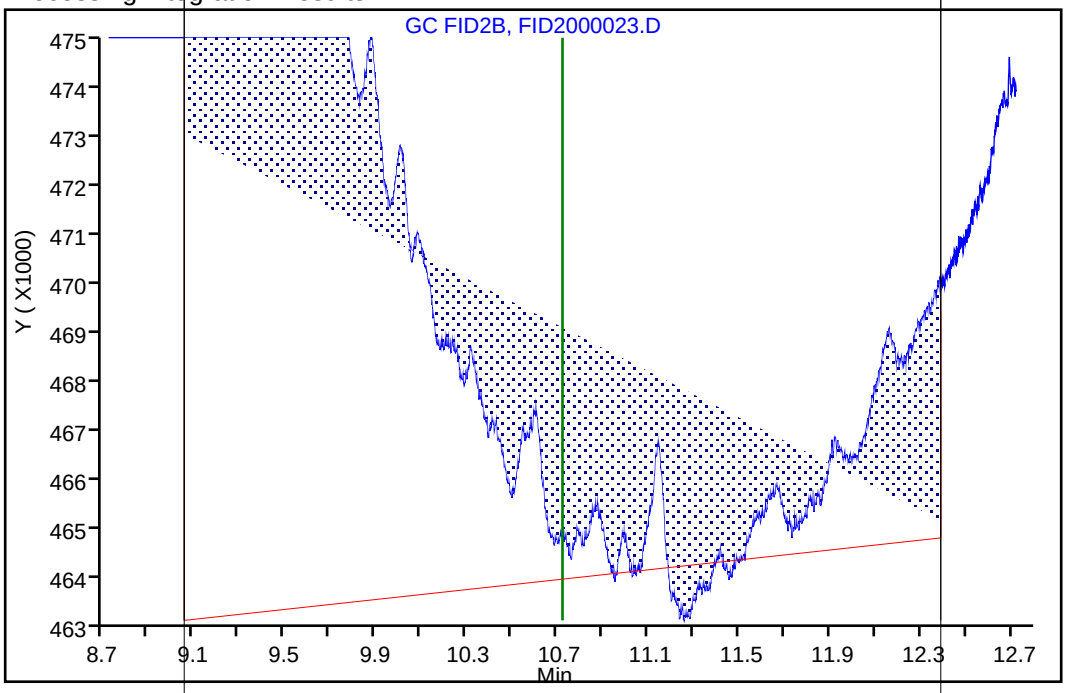
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Injection Date:	27-Dec-2018 21:36:07	Instrument ID:	CHDRO6
Lims ID:	720-90446-F-21-A	Lab Sample ID:	720-90446-21
Client ID:	DG-P4S-4.5-5		
Operator ID:	RLU	ALS Bottle#:	73 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	DRO6_B	Limit Group:	DRO
Column:		Detector	GC FID1A

A 40 C24-C36, RT: 10.722, CAS: STL00158

Signal: 1

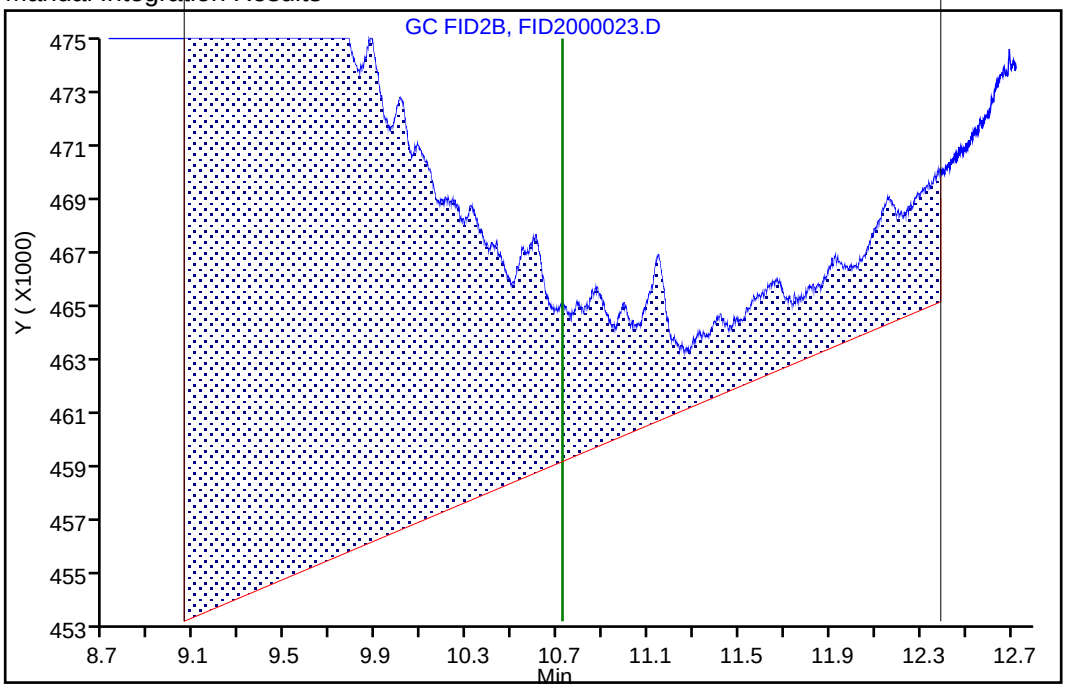
Processing Integration Results

RT: 10.72
Response: 28292006
Amount: 24.457002



Manual Integration Results

RT: 10.72
Response: 46422708
Amount: 40.130073



Reviewer: hayashid, 28-Dec-2018 06:44:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

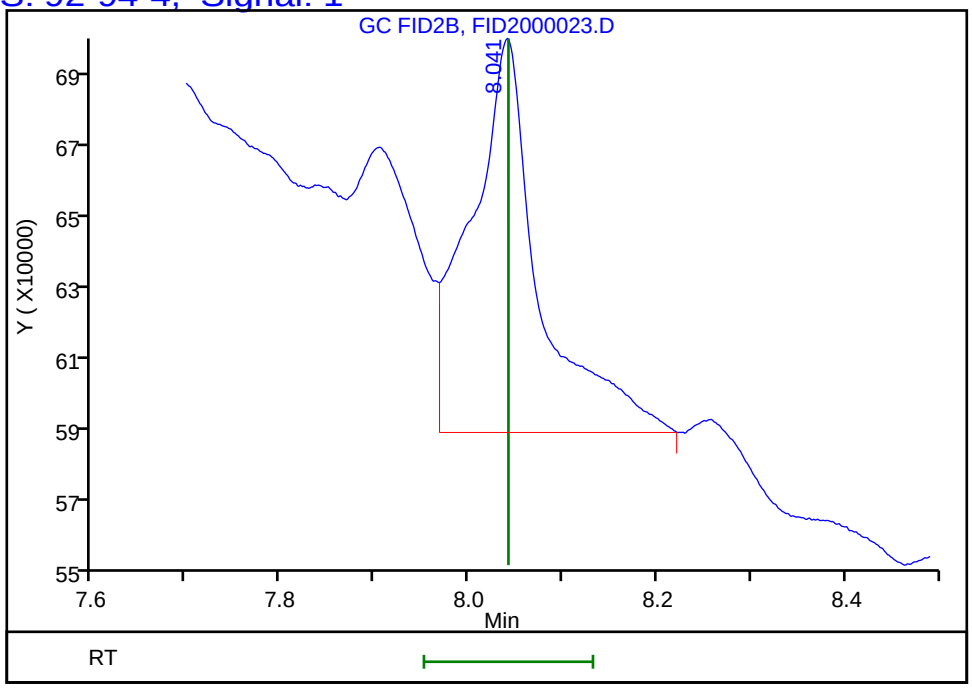
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000023.D				
Injection Date:	27-Dec-2018 21:36:07	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-21-A	Lab Sample ID:	720-90446-21		
Client ID:	DG-P4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.04
Response: 10515677
Amount: 4.465136



Reviewer: hayashid, 28-Dec-2018 06:44:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000022.D
Lims ID: 720-90446-F-22-A
Client ID: DG-O4S-4.5-5
Sample Type: Client
Inject. Date: 27-Dec-2018 21:11:54 ALS Bottle#: 72 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 720-0055856-022
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\DRO6_B.m
Limit Group: DRO
Last Update: 28-Dec-2018 06:44:12 Calib Date: 27-Dec-2018 13:28:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000010.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 28-Dec-2018 06:44:12

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.347	1.358	-0.011	292728	NC	
	23 n-Decane	2.214	2.204	0.010	1881137	NC	
A	21 Stoddard Solvent	2.807	(1.358-4.257)		474993964	199.5	
A	1 C9-C13	2.807	(1.358-4.257)		474993964	NC	
A	57 C10-C12	2.925	(2.204-3.646)		185278301	93.7	
	24 Dodecane	3.551	3.646	-0.095	39931596	NC	
A	3 C9 - C17	3.833	(1.358-6.308)		1926019505	670.7	
A	60 C10-C16	4.021	(2.204-5.838)		1604236296	626.8	
A	47 C9 - C18	4.056	(1.358-6.754)		2257301817	995.0	
	26 C13	4.283	4.257	0.026	30907571	NC	
A	25 C9-C19	4.268	(1.358-7.178)		2507394007	868.1	
A	15 Kerosene	4.268	(1.358-7.178)		2507394007	1103.4	
$	27 n-Decanoic Acid (Surr)		4.608			ND	U
A	59 C12-C16	4.742	(3.646-5.838)		1418957995	717.6	
A	61 C10-C20	4.894	(2.204-7.585)		2708115666	1369.5	
A	28 C9-C24	5.205	(1.358-9.051)		2897191074	1465.1	
A	29 C9-C25	5.371	(1.358-9.383)		2917713134	1475.5	
A	54 C10-C23	5.455	(2.204-8.706)		2864995440	1448.8	
A	4 C10-C24	5.628	(2.204-9.051)		2886648341	1459.8	
A	16 C10-C25	5.794	(2.204-9.383)		2907170401	1470.1	
	45 Hexadecane	5.795	5.838	-0.043	119386890	NC	
A	14 C10-C26	5.954	(2.204-9.704)		2907170401	1470.1	
A	67 C12-C22	5.997	(3.646-8.348)		2650073247	1340.1	
A	32 C10-C28	6.258	(2.204-10.312)		2913886753	1473.5	
A	12 Unknown Hydrocarbons	6.258	(2.204-10.312)		2913886753	NC	
A	5 Diesel	6.258	(2.204-10.312)		2913886753	1473.5	
A	30 C13-C22	6.302	(4.257-8.348)		2370900317	1199.0	
	44 Heptadecane	6.350	6.308	0.042	106640371	NC	
A	31 C12-C24	6.348	(3.646-9.051)		2701370040	1366.1	
	49 n-Octadecane	6.709	6.754	-0.045	45316254	NC	
A	52 Mineral oil	6.875	(1.358-12.392)		2931413401	1273.7	
A	11 Bunker Range Organics (C9-	6.875	(1.358-12.392)		2931413401	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.358-12.392)		2931413401	NC	
33 C19	7.155	7.178	-0.023	41883869	NC	
A 64 C13-C28	7.284	(4.257-10.312)		2449435522	1238.7	
A 17 C10-C36	7.298	(2.204-12.392)		2920870668	1477.1	
A 13 C9-C40	7.363	(1.358-13.369)		2942762090	1660.1	
A 68 Crude Oil Range Organics (	7.363	(1.358-13.369)		2942762090	NC	
A 58 C16-C24	7.445	(5.838-9.051)		1401798935	708.9	
62 icosane	7.531	7.585	-0.054	90459639	NC	
A 6 C10-C40	7.786	(2.204-13.369)		2932219357	1656.1	
$ 34 p-Terphenyl		8.042			ND	U
35 n-Docosane	8.251	8.348	-0.097	35451897	NC	
A 18 C12-C40	8.507	(3.646-13.369)		2746941056	1557.1	
36 Tricosane	8.776	8.706	0.070	21652901	NC	
A 66 C13-C40	8.813	(4.257-13.369)		2467768126	1400.1	
37 n-Tetracosane		9.051			ND	
A 2 C16-C36 ORO	9.115	(5.838-12.392)		1436021262	1060.6	
38 C25		9.383			ND	
A 19 C16-C40	9.603	(5.838-13.369)		1447369951	822.8	
46 n-Hexacosane	9.743	9.704	0.039	1943022	NC	
A 20 C19-C36	9.785	(7.178-12.392)		408059718	253.5	
A 55 C23-C32	10.060	(8.706-11.414)		82322649	92.8	
39 n-Octacosane	10.330	10.312	0.018	638055	NC	
65 C29	10.601	10.601	0.000	869311	NC	
A 7 Motor Oil	10.722	(9.051-12.392)		27044734	23.4	
A 40 C24-C36	10.722	(9.051-12.392)		47460566	41.0	M
A 10 C22-C40	10.858	(8.348-13.369)		102443126	63.3	
A 50 C25-C36	10.888	(9.383-12.392)		15468529	14.3	
A 41 C23-C40	11.037	(8.706-13.369)		63759683	40.1	
A 8 C24-C40	11.210	(9.051-13.369)		38257473	24.6	
56 Dotriacontane	11.436	11.414	0.022	245318	NC	
A 51 C28-C40	11.840	(10.312-13.369)		17681863	14.2	
A 63 C29-C40	11.985	(10.601-13.369)		17387005	15.2	
42 n-Hexatriacontane	12.354	12.392	-0.038	184262	NC	
43 C40		13.369			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

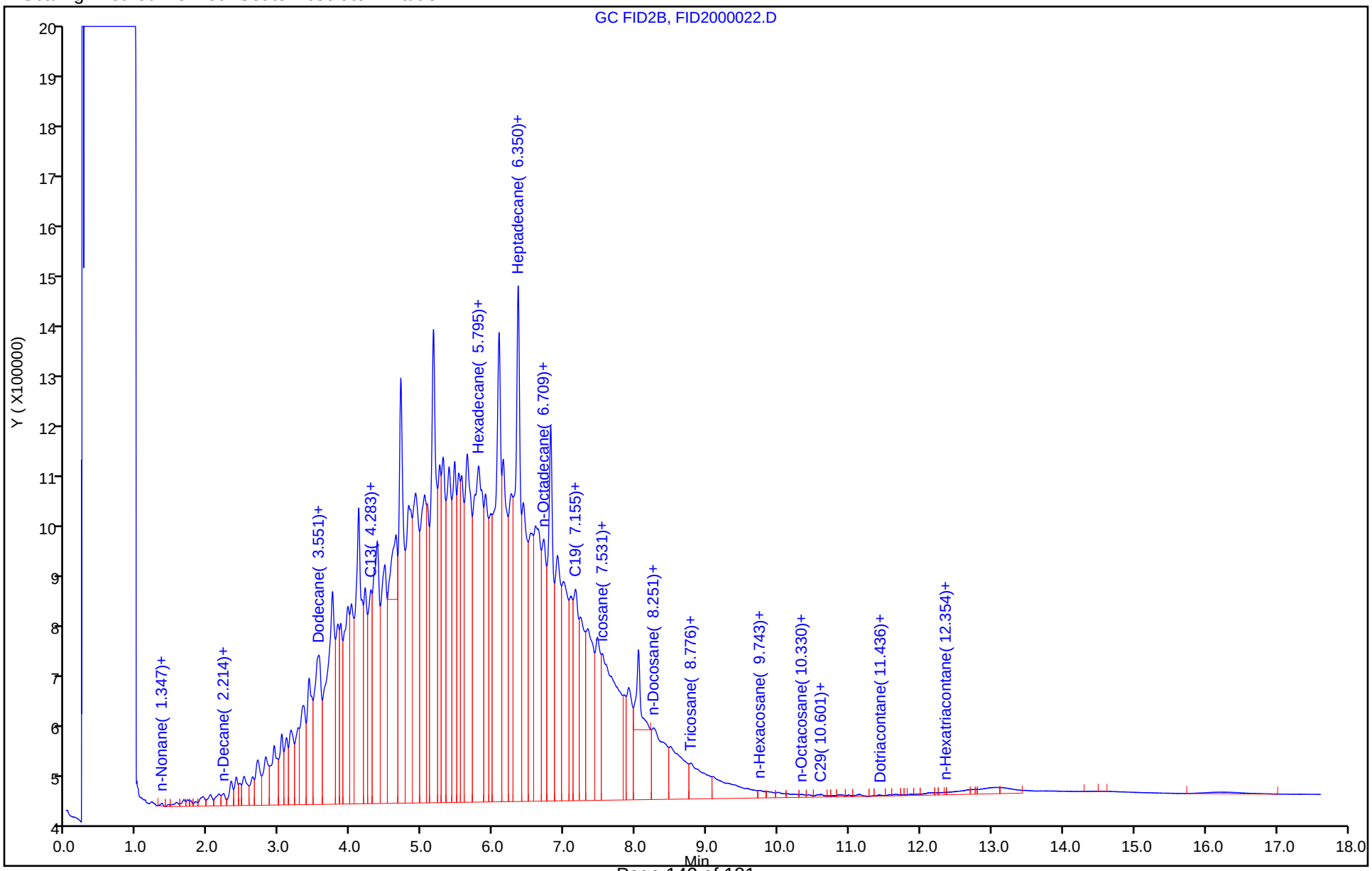
Report Date: 28-Dec-2018 06:44:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000022.D

Injection Date:	27-Dec-2018 21:11:54	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-F-22-A	Lab Sample ID:	720-90446-22	Worklist Smp#:	22
Client ID:	DG-O4S-4.5-5				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	72
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

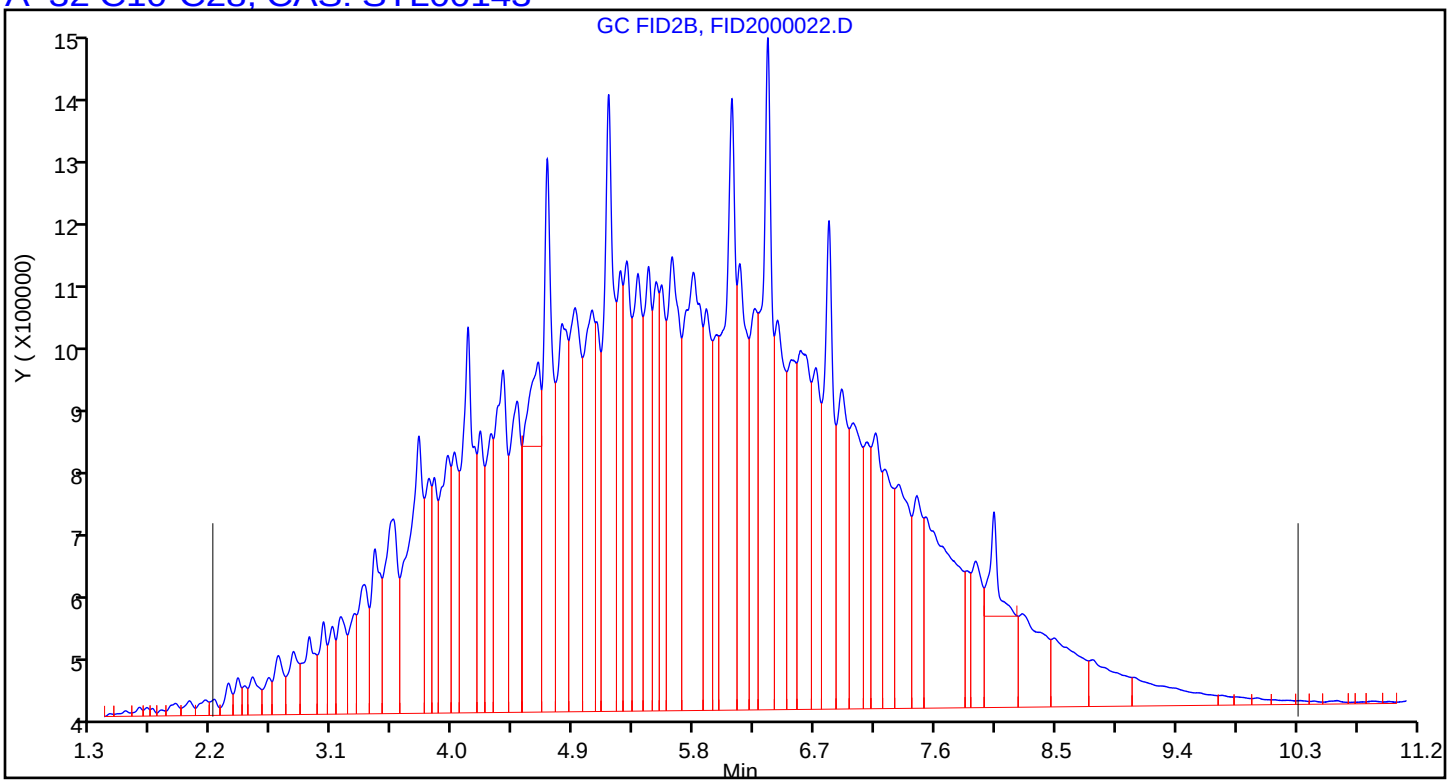


Report Date: 28-Dec-2018 06:44:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000022.D				
Injection Date:	27-Dec-2018 21:11:54	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-22-A	Lab Sample ID:	720-90446-22		
Client ID:	DG-O4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

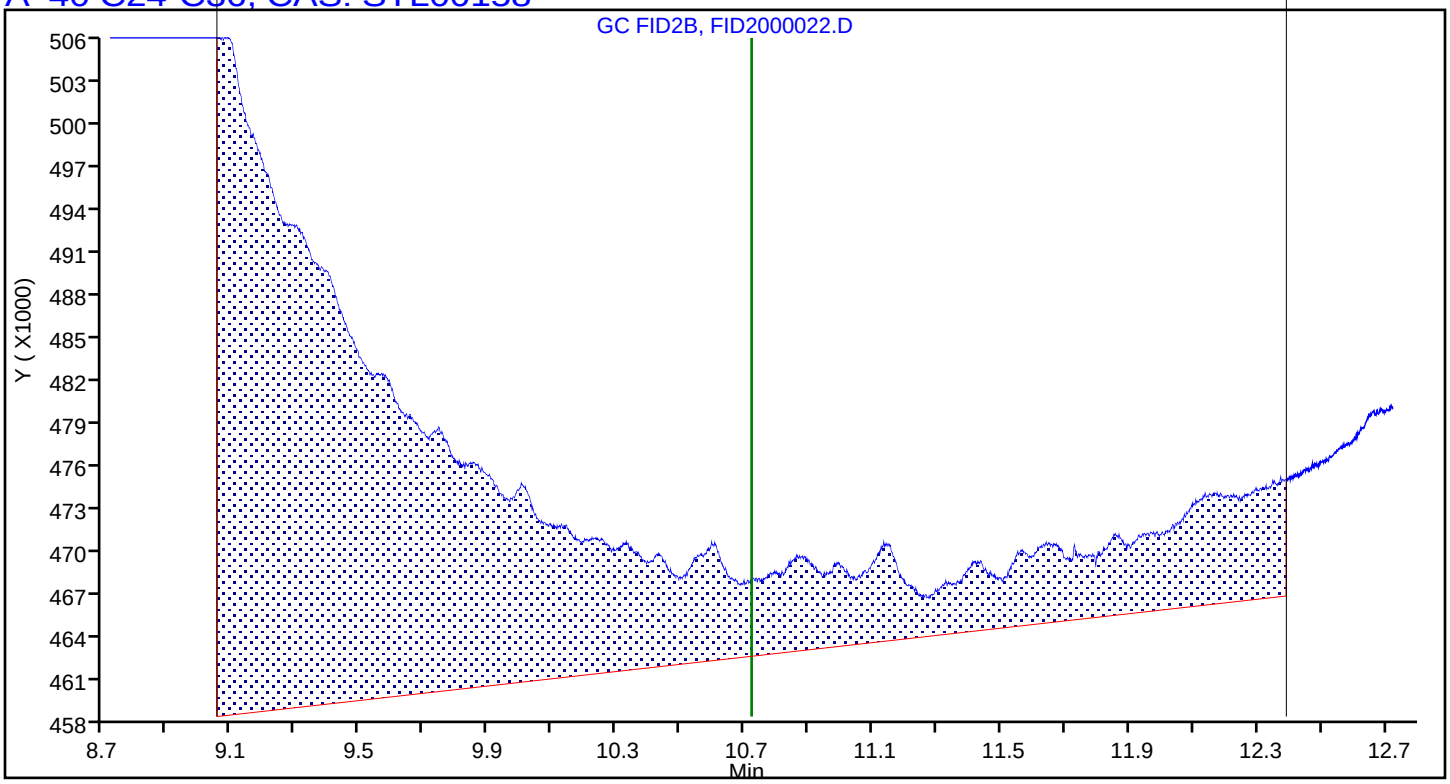


Report Date: 28-Dec-2018 06:44:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000022.D				
Injection Date:	27-Dec-2018 21:11:54	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-22-A	Lab Sample ID:	720-90446-22		
Client ID:	DG-O4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Report Date: 28-Dec-2018 06:44:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000022.D

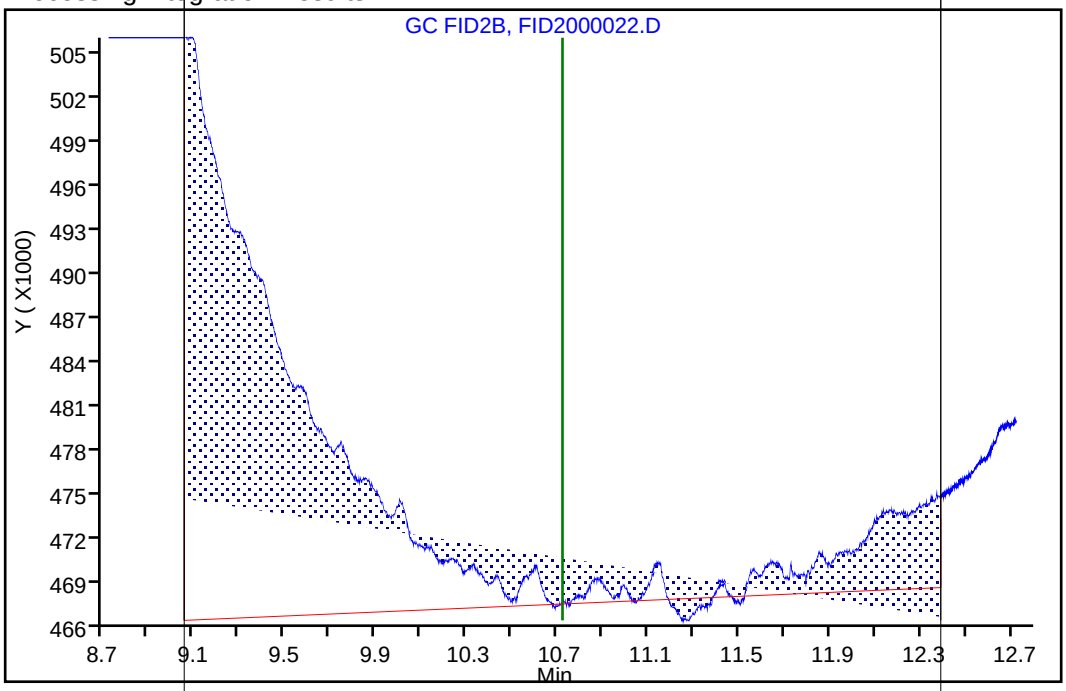
Injection Date:	27-Dec-2018 21:11:54	Instrument ID:	CHDRO6
Lims ID:	720-90446-F-22-A	Lab Sample ID:	720-90446-22
Client ID:	DG-O4S-4.5-5		
Operator ID:	RLU	ALS Bottle#:	72 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	DRO6_B	Limit Group:	DRO
Column:		Detector	GC FID1A

A 40 C24-C36, RT: 10.722, CAS: STL00158

Signal: 1

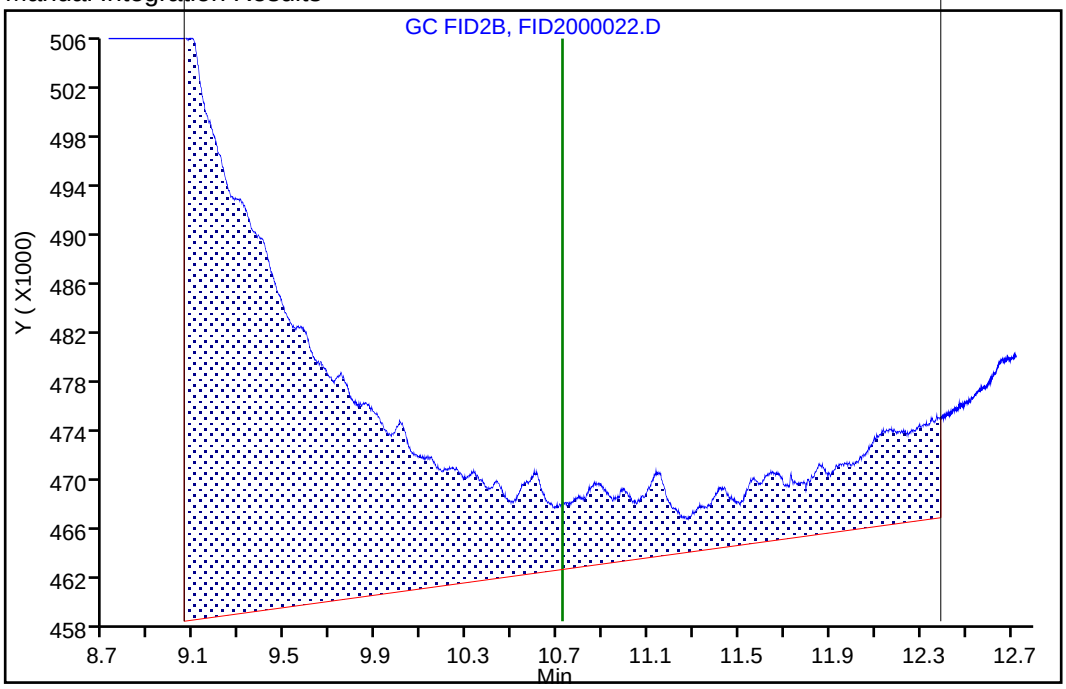
Processing Integration Results

RT: 10.72
Response: 27044734
Amount: 23.378799



Manual Integration Results

RT: 10.72
Response: 47460566
Amount: 41.027249



Reviewer: hayashid, 28-Dec-2018 06:44:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

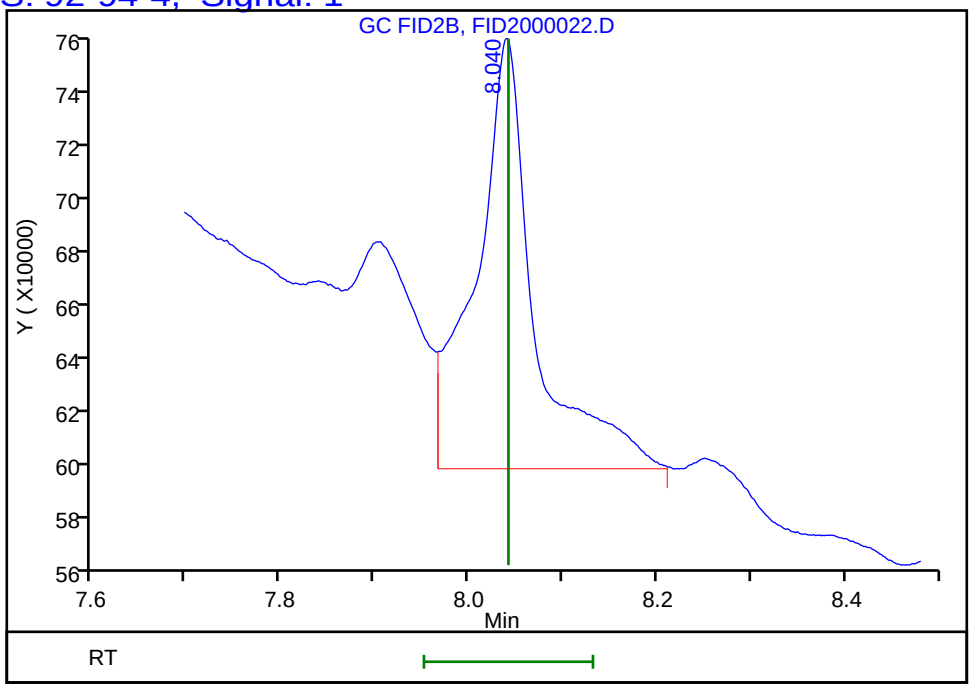
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55856.b\FID2000022.D				
Injection Date:	27-Dec-2018 21:11:54	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-22-A	Lab Sample ID:	720-90446-22		
Client ID:	DG-O4S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.04
Response: 13832453
Amount: 5.873496



Reviewer: hayashid, 28-Dec-2018 06:44:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000025.D
Lims ID: 720-90446-F-23-A
Client ID: DG-P4S-7.5-8
Sample Type: Client
Inject. Date: 27-Dec-2018 22:24:38 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055855-025
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:26:45 Calib Date: 27-Dec-2018 09:22:29
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 08:13:15

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.210			ND	
	23 n-Decane	2.097	2.087	0.010	97096	NC	M
A	1 C9-C13	2.698	(1.210-4.185)		42860017	NC	M
A	21 Stoddard Solvent	2.698	(1.210-4.185)		42860017	32.3	M
A	57 C10-C12	2.826	(2.087-3.565)		13689496	10.7	M
	24 Dodecane	3.560	3.565	-0.005	1434255	NC	M
A	3 C9 - C17	3.735	(1.210-6.260)		291399837	191.0	M
A	60 C10-C16	3.936	(2.087-5.785)		229340148	167.0	M
A	47 C9 - C18	3.960	(1.210-6.709)		349965611	292.7	M
A	15 Kerosene	4.174	(1.210-7.138)		404410460	337.8	M
A	25 C9-C19	4.174	(1.210-7.138)		404410460	263.8	M
	26 C13	4.212	4.185	0.027	4656454	NC	M
$	27 n-Decanoic Acid (Surr)		4.546			ND	U
A	59 C12-C16	4.675	(3.565-5.785)		217084907	170.2	M
A	62 C10-C20	4.818	(2.087-7.549)		434888422	340.9	M
A	28 C9-C24	5.121	(1.210-9.031)		494862306	387.9	M
A	29 C9-C25	5.289	(1.210-9.368)		503039772	394.4	M
A	54 C10-C23	5.384	(2.087-8.682)		485057106	380.3	M
A	4 C10-C24	5.559	(2.087-9.031)		494760020	387.9	M
A	16 C10-C25	5.727	(2.087-9.368)		502937486	394.3	M
	45 Hexadecane	5.737	5.785	-0.048	21884295	NC	M
A	14 C10-C26	5.889	(2.087-9.692)		508699049	398.8	M
A	67 C12-C22	5.942	(3.565-8.320)		459173580	360.0	M
A	32 C10-C28	6.198	(2.087-10.310)		520255808	407.8	M
A	12 Unknown Hydrocarbons	6.198	(2.087-10.310)		520255808	NC	M
A	5 Diesel	6.198	(2.087-10.310)		520255808	407.8	M
A	30 C13-C22	6.252	(4.185-8.320)		428671090	336.1	M
	44 Heptadecane	6.236	6.260	-0.024	13544346	NC	M
A	31 C12-C24	6.298	(3.565-9.031)		482504779	378.3	M
	51 n-Octadecane	6.662	6.709	-0.047	9377717	NC	M
A	9 Crude Oil Range Organics (	6.819	(1.210-12.428)		576784252	NC	M
A	11 Bunker Range Organics (C9-	6.819	(1.210-12.428)		576784252	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.819	(1.210-12.428)		576784252	NC	M
33 C19	7.115	7.138	-0.023	15893940	NC	M
A 64 C13-C28	7.247	(4.185-10.310)		477498077	374.3	M
A 17 C10-C36	7.257	(2.087-12.428)		576681966	452.1	M
A 68 Crude Oil Range Organics (	7.312	(1.210-13.413)		623369212	NC	M
A 13 C9-C40	7.312	(1.210-13.413)		623369212	562.0	M
A 58 C16-C24	7.408	(5.785-9.031)		287304167	225.2	M
61 icosane	7.546	7.549	-0.003	7377804	NC	M
A 6 C10-C40	7.750	(2.087-13.413)		623266926	563.0	M
$ 34 p-Terphenyl	8.003	8.007	-0.004	40264722	28.1	
35 n-Docosane	8.321	8.320	0.001	6320201	NC	M
A 18 C12-C40	8.489	(3.565-13.413)		611011685	568.5	M
36 Tricosane	8.687	8.682	0.005	5094460	NC	M
A 66 C13-C40	8.799	(4.185-13.413)		580509195	548.2	M
37 n-Tetracosane	9.033	9.031	0.002	5634338	NC	M
A 2 C16-C36 ORO	9.106	(5.785-12.428)		391279746	452.4	
38 C25	9.372	9.368	0.004	3171062	NC	M
A 19 C16-C40	9.599	(5.785-13.413)		415811073	400.2	M
46 n-Hexacosane	9.699	9.692	0.007	2530207	NC	M
A 20 C19-C36	9.783	(7.138-12.428)		215446185	208.8	
A 55 C23-C32	10.057	(8.682-11.431)		60530335	109.6	M
39 n-Octacosane	10.317	10.310	0.007	3509503	NC	M
65 C29	10.603	10.603	0.000	2248083	NC	M
A 40 C24-C36	10.730	(9.031-12.428)		80797413	113.7	M
A 7 Motor Oil	10.730	(9.031-12.428)		11170407	15.7	
A 10 C22-C40	10.866	(8.320-13.413)		46681682	47.3	
A 49 C25-C36	10.898	(9.368-12.428)		73744480	105.7	M
A 41 C23-C40	11.048	(8.682-13.413)		138209820	138.3	M
A 8 C24-C40	11.222	(9.031-13.413)		128506906	136.1	M
56 Dotriacontane	11.428	11.431	-0.003	4774783	NC	M
A 50 C28-C40	11.861	(10.310-13.413)		103011118	140.5	M
A 63 C29-C40	12.008	(10.603-13.413)		97418753	144.4	M
42 n-Hexatriacontane	12.348	12.428	-0.080	3944550	NC	M
43 C40	13.353	13.413	-0.060	839993	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

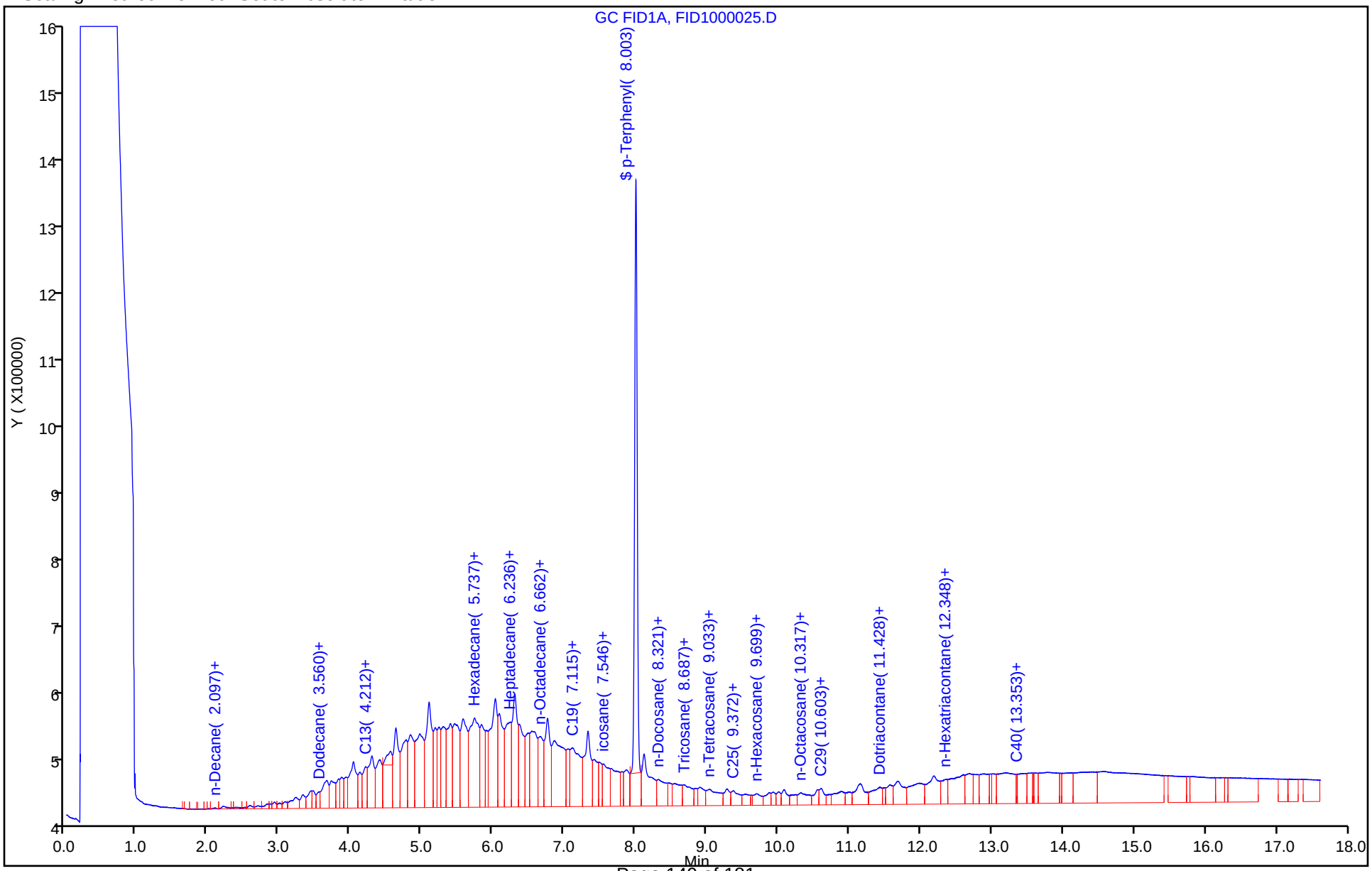
Report Date: 28-Dec-2018 08:13:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000025.D

Injection Date:	27-Dec-2018 22:24:38	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-F-23-A	Lab Sample ID:	720-90446-23	Worklist Smp#:	25
Client ID:	DG-P4S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000025.D
Lims ID: 720-90446-F-23-A
Client ID: DG-P4S-7.5-8
Sample Type: Client
Inject. Date: 27-Dec-2018 22:24:38 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055855-025
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:26:45 Calib Date: 27-Dec-2018 09:22:29
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 08:13:15

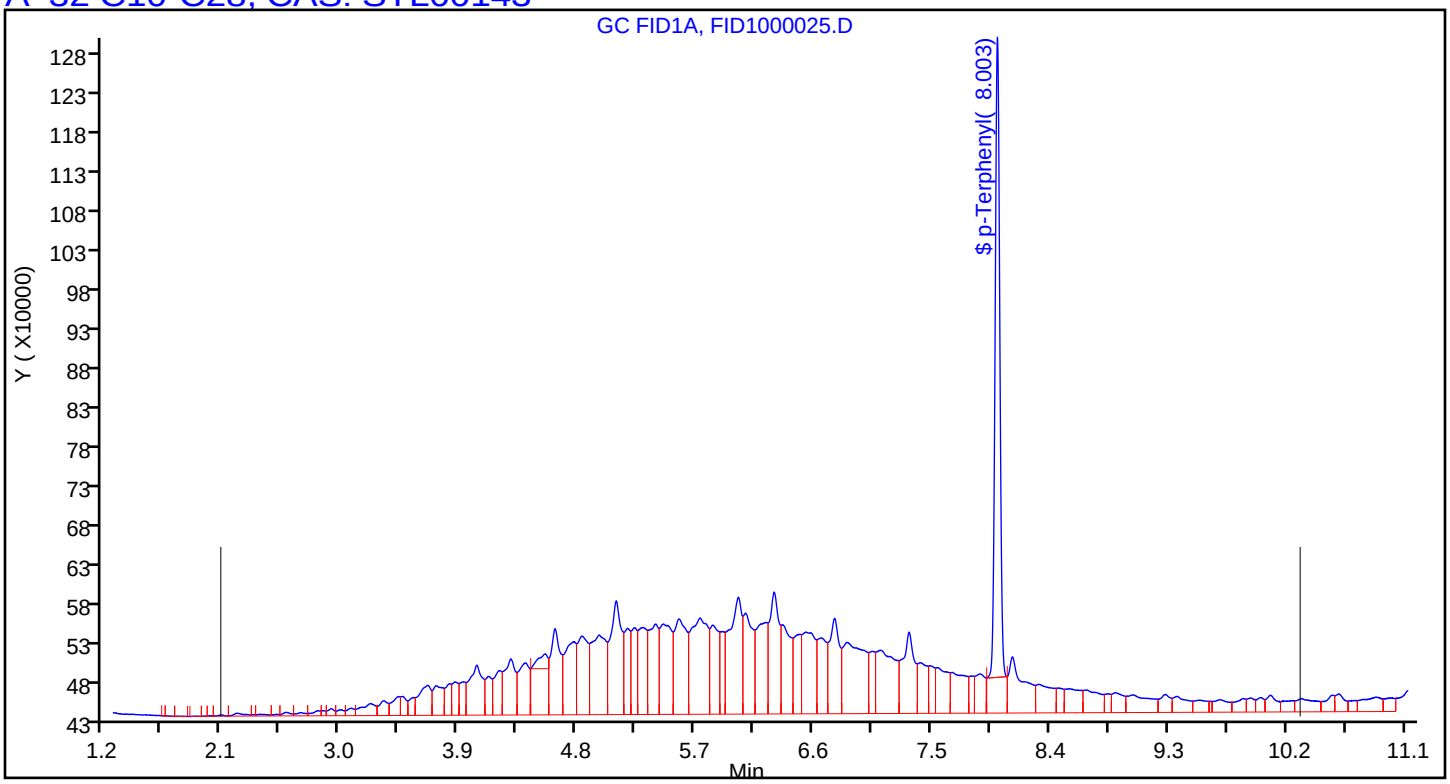
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	28.1	112.33

Report Date: 28-Dec-2018 08:13:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000025.D				
Injection Date:	27-Dec-2018 22:24:38	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-23-A	Lab Sample ID:	720-90446-23		
Client ID:	DG-P4S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

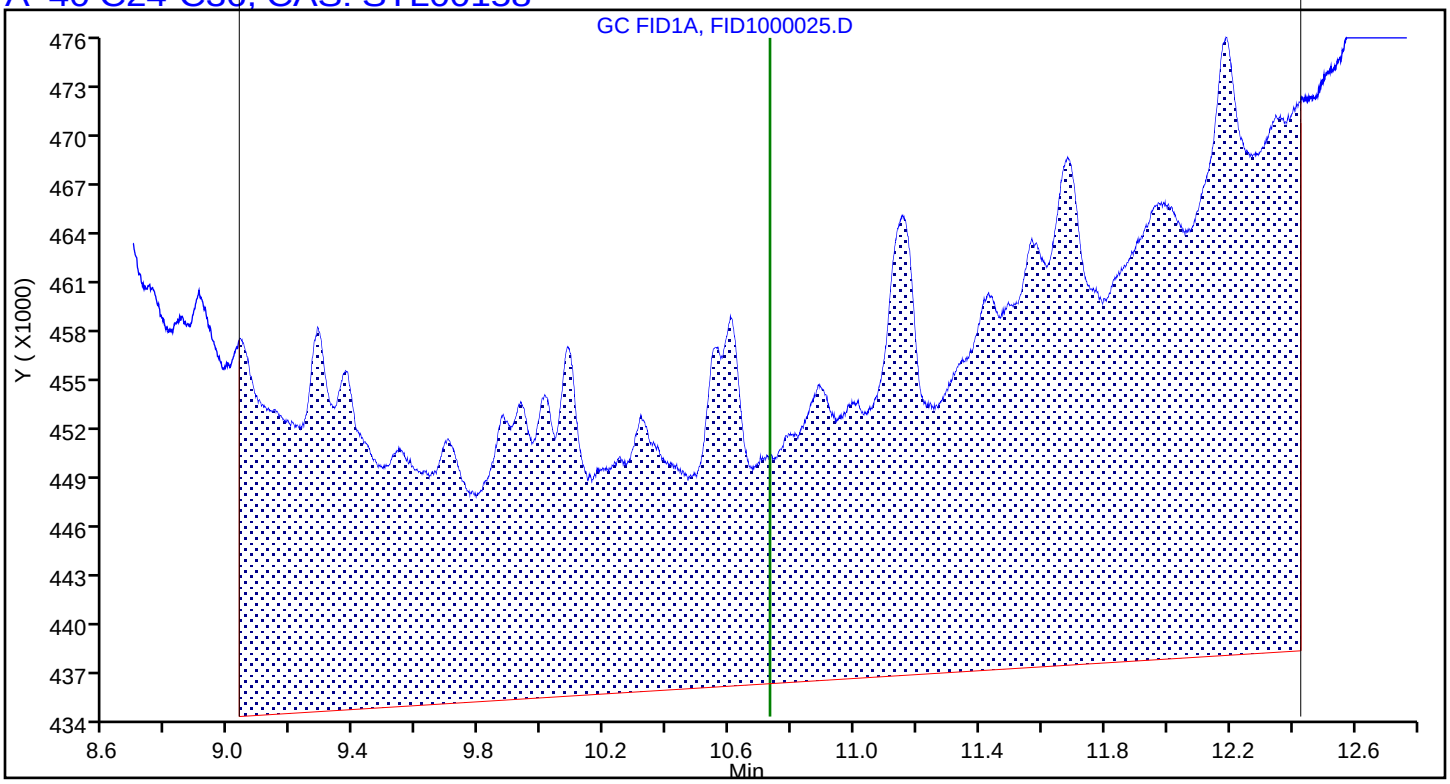


Report Date: 28-Dec-2018 08:13:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000025.D				
Injection Date:	27-Dec-2018 22:24:38	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-23-A	Lab Sample ID:	720-90446-23		
Client ID:	DG-P4S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

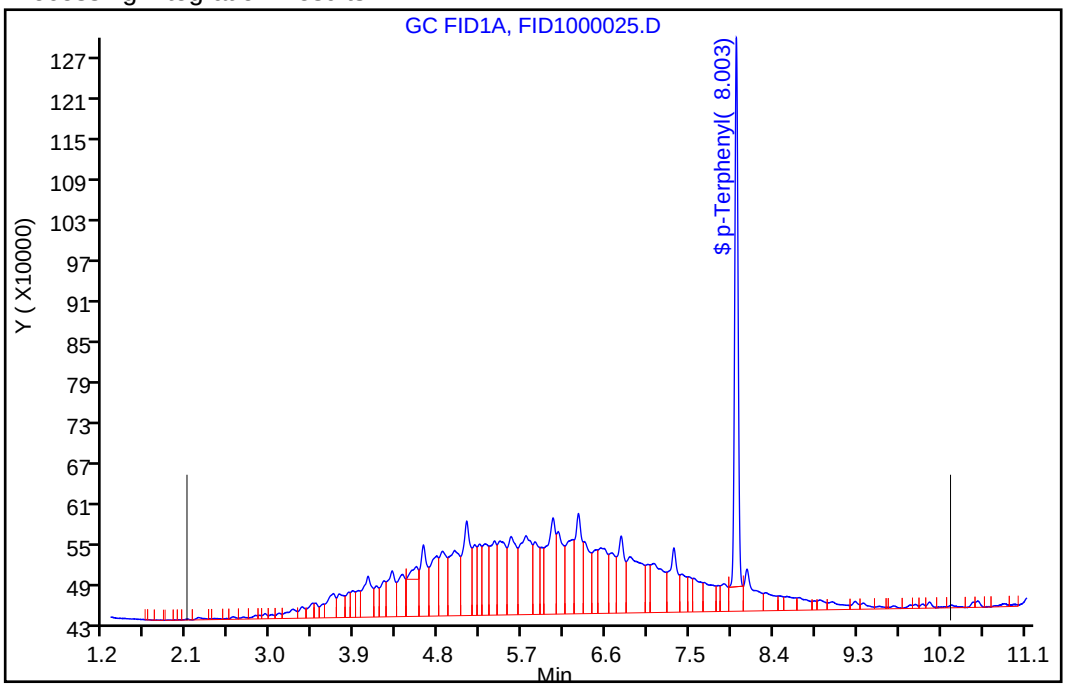
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000025.D				
Injection Date:	27-Dec-2018 22:24:38	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-23-A	Lab Sample ID:	720-90446-23		
Client ID:	DG-P4S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.198, CAS: STL00143

Signal: 1

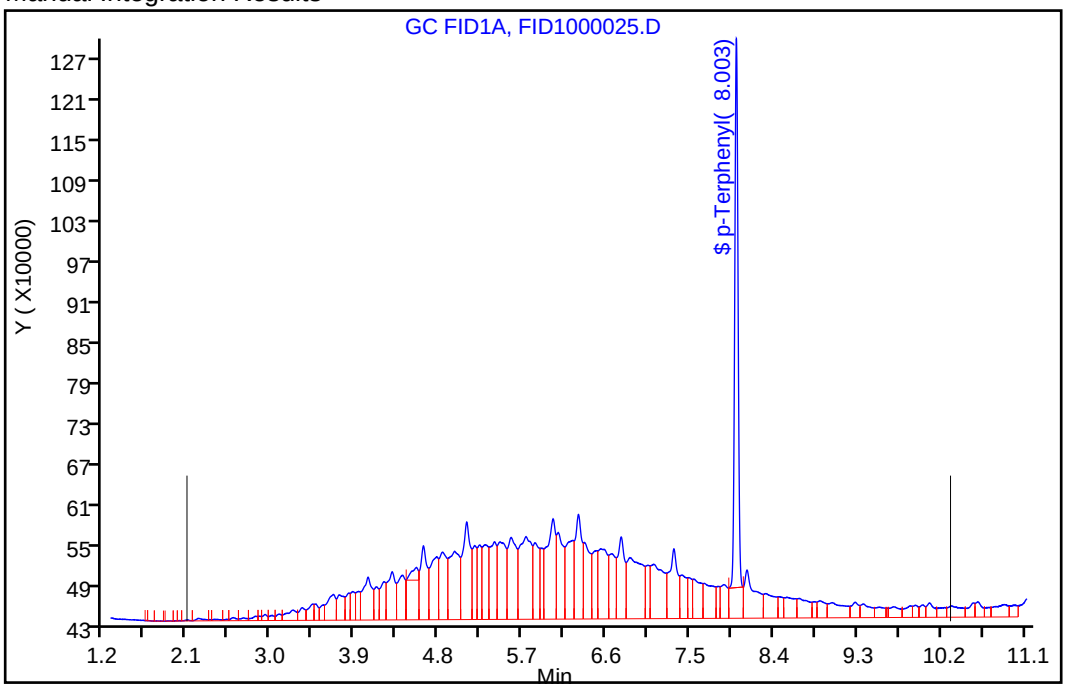
Processing Integration Results

RT: 6.20
Response: 452967959
Amount: 355.0979



Manual Integration Results

RT: 6.20
Response: 520255808
Amount: 407.8472



Reviewer: hayashid, 28-Dec-2018 06:35:48

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Report Date: 28-Dec-2018 08:13:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

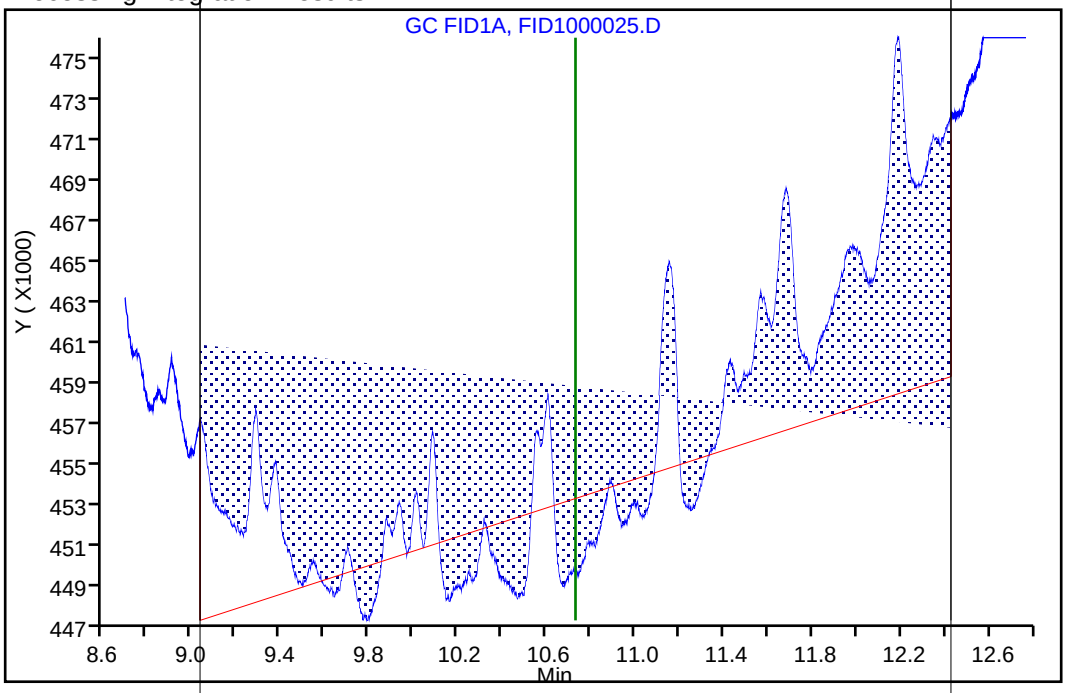
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000025.D				
Injection Date:	27-Dec-2018 22:24:38	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-23-A	Lab Sample ID:	720-90446-23		
Client ID:	DG-P4S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.730, CAS: STL00158

Signal: 1

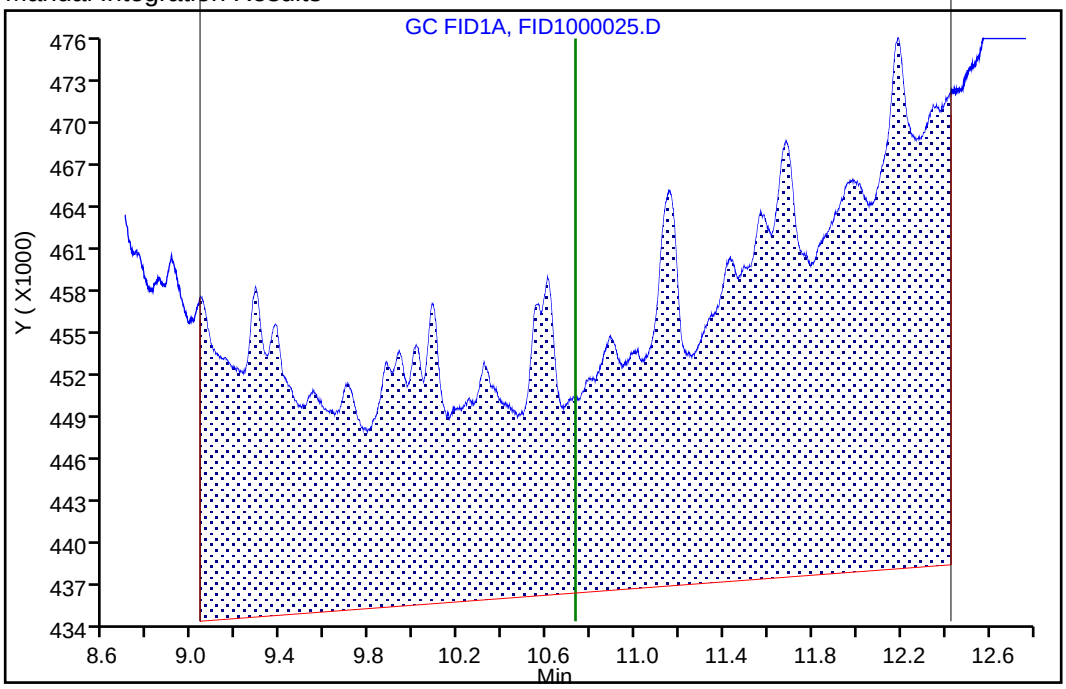
Processing Integration Results

RT: 10.73
Response: 11170407
Amount: 15.713418



Manual Integration Results

RT: 10.73
Response: 80797413
Amount: 113.6578



Reviewer: hayashid, 28-Dec-2018 06:36:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000026.D
Lims ID: 720-90446-F-24-A
Client ID: DG-O4S-9.5-10
Sample Type: Client
Inject. Date: 27-Dec-2018 22:48:41 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055855-026
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:26:45 Calib Date: 27-Dec-2018 09:22:29
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 08:13:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.284	1.210	0.074	225511	NC	M
	23 n-Decane	2.089	2.087	0.002	486473	NC	M
A	1 C9-C13	2.698	(1.210-4.185)		149635424	NC	M
A	21 Stoddard Solvent	2.698	(1.210-4.185)		149635424	112.9	M
A	57 C10-C12	2.826	(2.087-3.565)		52373289	41.1	M
	24 Dodecane	3.468	3.565	-0.097	12450462	NC	M
A	3 C9 - C17	3.735	(1.210-6.260)		757045993	496.3	M
A	60 C10-C16	3.936	(2.087-5.785)		615274199	448.0	M
A	47 C9 - C18	3.960	(1.210-6.709)		918165555	767.9	M
A	15 Kerosene	4.174	(1.210-7.138)		1057241094	883.2	M
A	25 C9-C19	4.174	(1.210-7.138)		1057241094	689.5	M
	26 C13	4.208	4.185	0.023	11316283	NC	M
$	27 n-Decanoic Acid (Surr)		4.546			ND	U
A	59 C12-C16	4.675	(3.565-5.785)		562900910	441.3	M
A	62 C10-C20	4.818	(2.087-7.549)		1132544973	887.8	M
A	28 C9-C24	5.121	(1.210-9.031)		1257647158	985.9	M
A	29 C9-C25	5.289	(1.210-9.368)		1274562412	999.2	M
A	54 C10-C23	5.384	(2.087-8.682)		1246867188	977.5	M
A	4 C10-C24	5.559	(2.087-9.031)		1255756198	984.4	M
A	16 C10-C25	5.727	(2.087-9.368)		1272671452	997.7	M
	45 Hexadecane	5.739	5.785	-0.046	53702600	NC	M
A	14 C10-C26	5.889	(2.087-9.692)		1277330522	1001.3	M
A	67 C12-C22	5.942	(3.565-8.320)		1172636427	919.3	M
A	32 C10-C28	6.198	(2.087-10.310)		1295052215	1015.2	M
A	12 Unknown Hydrocarbons	6.198	(2.087-10.310)		1295052215	NC	M
A	5 Diesel	6.198	(2.087-10.310)		1295052215	1015.2	M
A	30 C13-C22	6.252	(4.185-8.320)		1077265252	844.5	M
	44 Heptadecane	6.301	6.260	0.041	54287183	NC	M
A	31 C12-C24	6.298	(3.565-9.031)		1203382909	943.4	M
	51 n-Octadecane	6.663	6.709	-0.046	22295582	NC	M
A	9 Crude Oil Range Organics (	6.819	(1.210-12.428)		1376523541	NC	M
A	11 Bunker Range Organics (C9-	6.819	(1.210-12.428)		1376523541	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.819	(1.210-12.428)		1376523541	NC	M
33 C19	7.117	7.138	-0.021	37262311	NC	M
A 64 C13-C28	7.247	(4.185-10.310)		1147307751	899.4	M
A 17 C10-C36	7.257	(2.087-12.428)		1374632581	1077.6	M
A 68 Crude Oil Range Organics (	7.312	(1.210-13.413)		1424125401	NC	M
A 13 C9-C40	7.312	(1.210-13.413)		1424125401	1283.9	M
A 58 C16-C24	7.408	(5.785-9.031)		694184599	544.2	M
61 icosane		7.549			ND	
A 6 C10-C40	7.750	(2.087-13.413)		1422234441	1284.6	M
$ 34 p-Terphenyl	8.003	8.007	-0.004	40993565	28.6	
35 n-Docosane	8.312	8.320	-0.008	10521260	NC	M
A 18 C12-C40	8.489	(3.565-13.413)		1369861152	1274.6	M
36 Tricosane	8.679	8.682	-0.003	7514730	NC	M
A 66 C13-C40	8.799	(4.185-13.413)		1274489977	1203.6	M
37 n-Tetracosane	9.053	9.031	0.022	7859392	NC	M
A 2 C16-C36 ORO	9.106	(5.785-12.428)		808367882	934.7	
38 C25	9.364	9.368	-0.004	4007938	NC	M
A 19 C16-C40	9.599	(5.785-13.413)		860662842	828.4	M
46 n-Hexacosane	9.727	9.692	0.035	3123282	NC	M
A 20 C19-C36	9.783	(7.138-12.428)		362171185	350.9	
A 55 C23-C32	10.057	(8.682-11.431)		91848784	166.3	M
39 n-Octacosane	10.353	10.310	0.043	4304540	NC	M
65 C29	10.553	10.603	-0.050	8087971	NC	M
A 40 C24-C36	10.730	(9.031-12.428)		114999762	161.8	M
A 7 Motor Oil	10.730	(9.031-12.428)		27413571	38.6	
A 10 C22-C40	10.866	(8.320-13.413)		71887124	72.9	
A 49 C25-C36	10.898	(9.368-12.428)		105969067	151.9	M
A 41 C23-C40	11.048	(8.682-13.413)		182881983	183.0	M
A 8 C24-C40	11.222	(9.031-13.413)		166478243	176.3	M
56 Dotriacontane	11.412	11.431	-0.019	3037845	NC	M
A 50 C28-C40	11.861	(10.310-13.413)		127182226	173.5	M
A 63 C29-C40	12.008	(10.603-13.413)		122877686	182.2	M
42 n-Hexatriacontane	12.412	12.428	-0.016	3053166	NC	M
43 C40		13.413			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

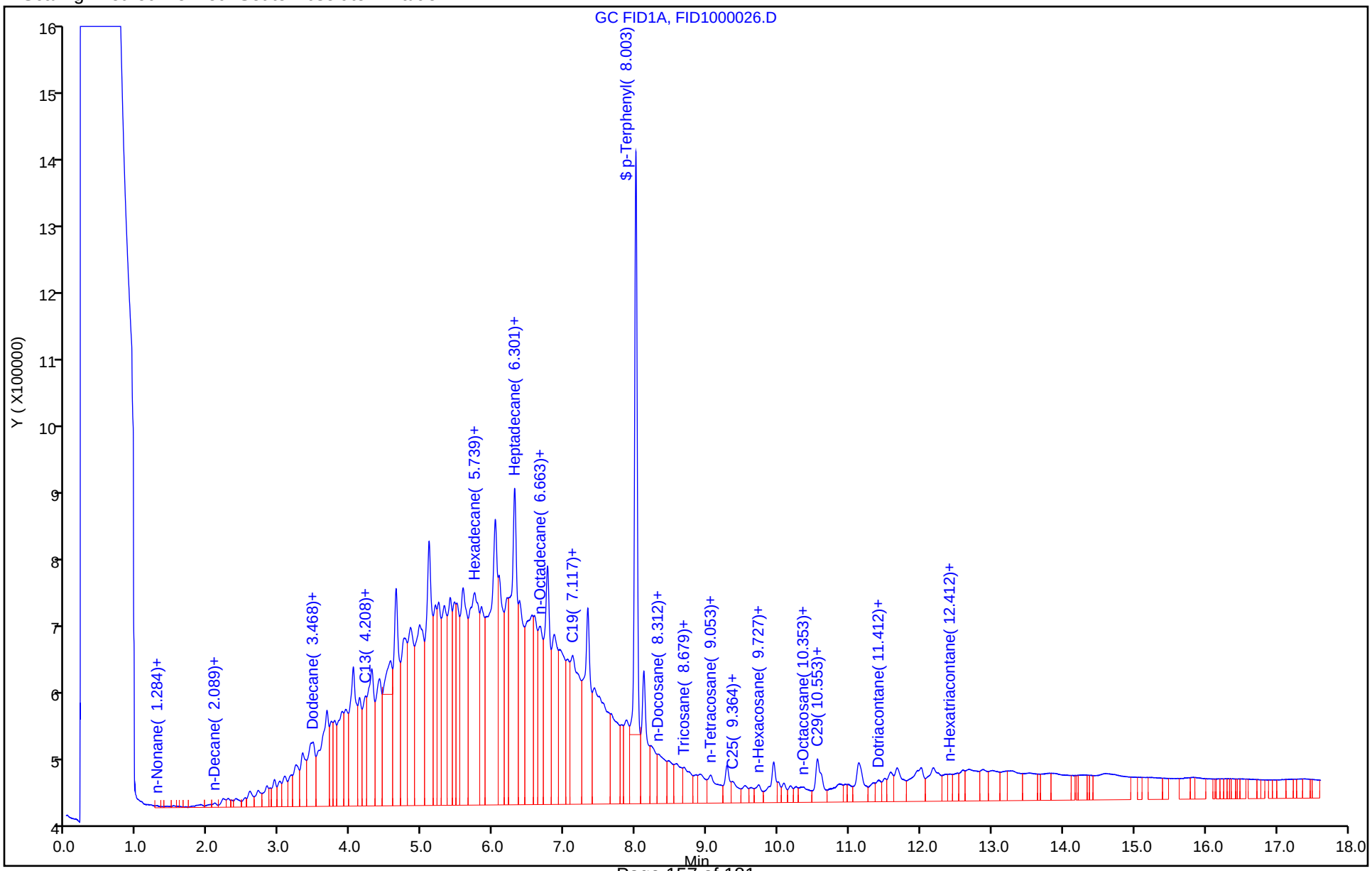
Report Date: 28-Dec-2018 08:13:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000026.D

Injection Date:	27-Dec-2018 22:48:41	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90446-F-24-A	Lab Sample ID:	720-90446-24	Worklist Smp#:	26
Client ID:	DG-O4S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000026.D
Lims ID: 720-90446-F-24-A
Client ID: DG-O4S-9.5-10
Sample Type: Client
Inject. Date: 27-Dec-2018 22:48:41 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055855-026
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:26:45 Calib Date: 27-Dec-2018 09:22:29
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 08:13:38

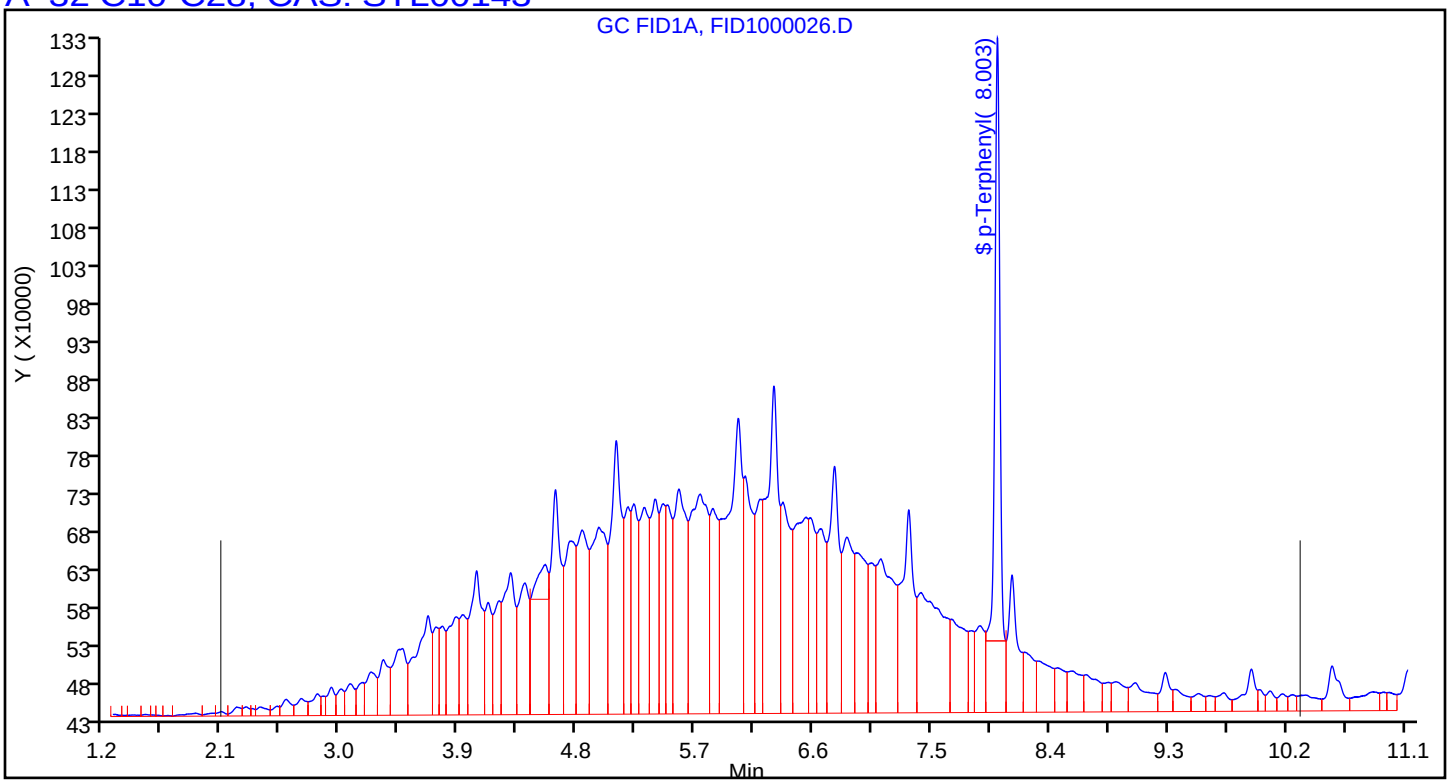
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	28.6	114.37

Report Date: 28-Dec-2018 08:13:42 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000026.D				
Injection Date:	27-Dec-2018 22:48:41	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-24-A	Lab Sample ID:	720-90446-24		
Client ID:	DG-O4S-9.5-10				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

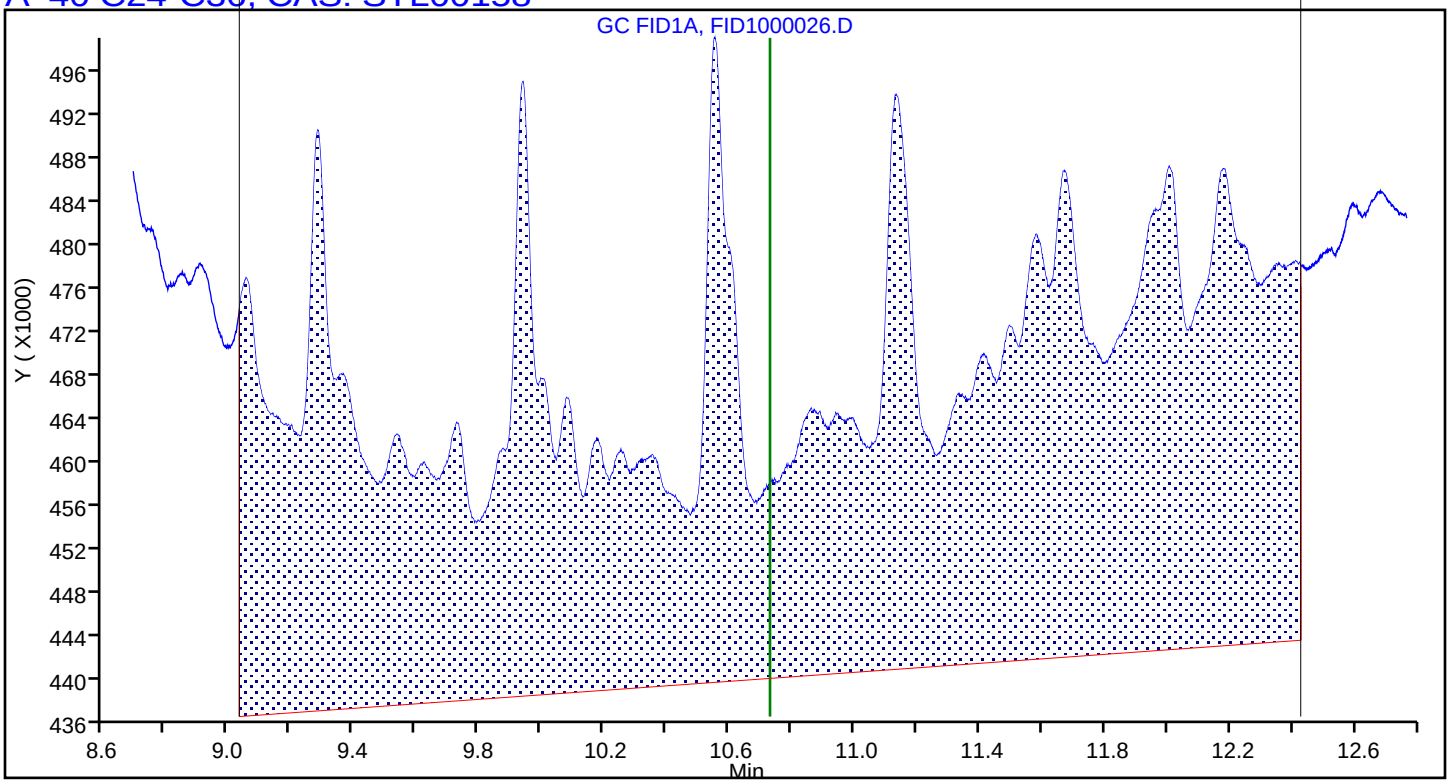


Report Date: 28-Dec-2018 08:13:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000026.D				
Injection Date:	27-Dec-2018 22:48:41	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-24-A	Lab Sample ID:	720-90446-24		
Client ID:	DG-O4S-9.5-10				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

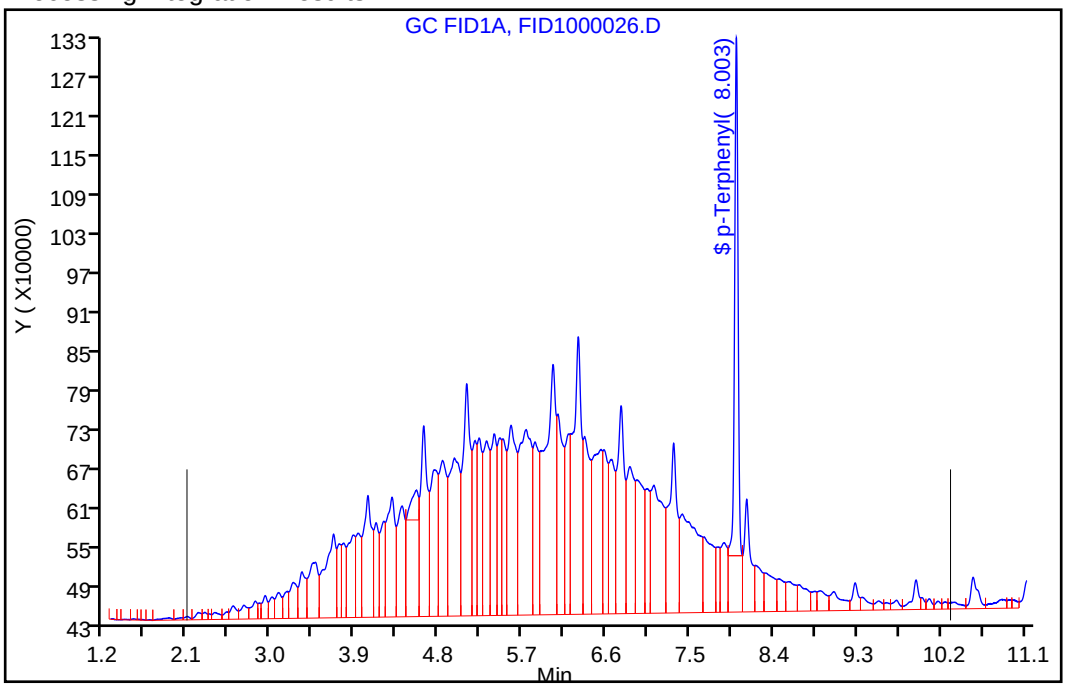
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Injection Date:	27-Dec-2018 22:48:41	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-24-A	Lab Sample ID:	720-90446-24		
Client ID:	DG-O4S-9.5-10				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.198, CAS: STL00143

Signal: 1

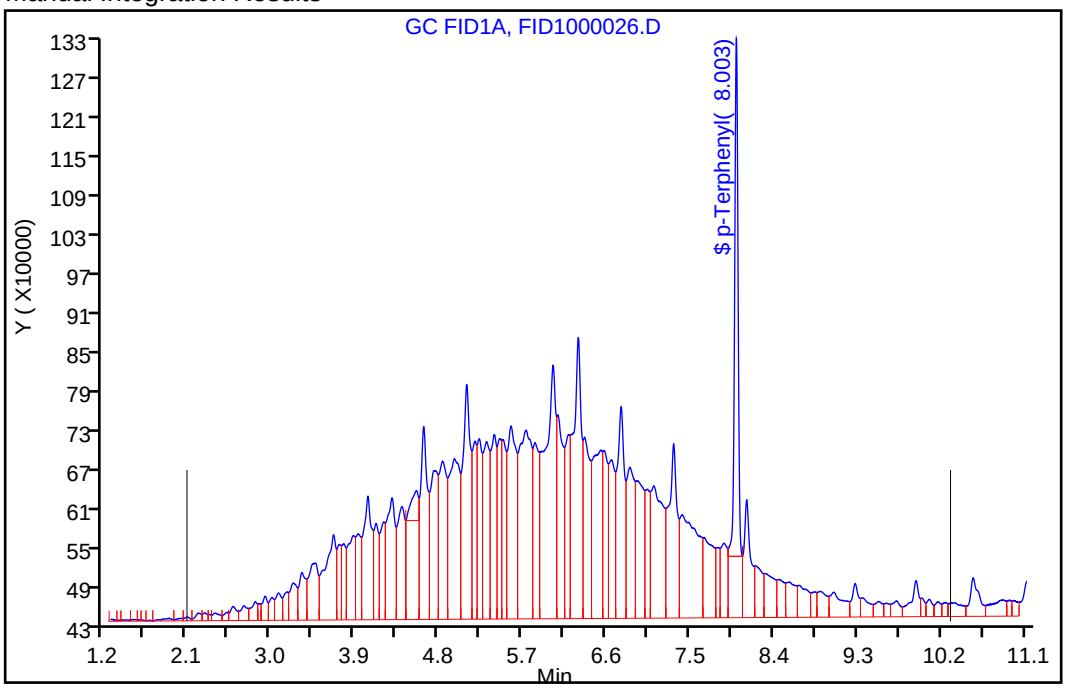
Processing Integration Results

RT: 6.20
Response: 1225469200
Amount: 960.6893



Manual Integration Results

RT: 6.20
Response: 1295052215
Amount: 1015.2380



Reviewer: hayashid, 28-Dec-2018 06:37:53

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

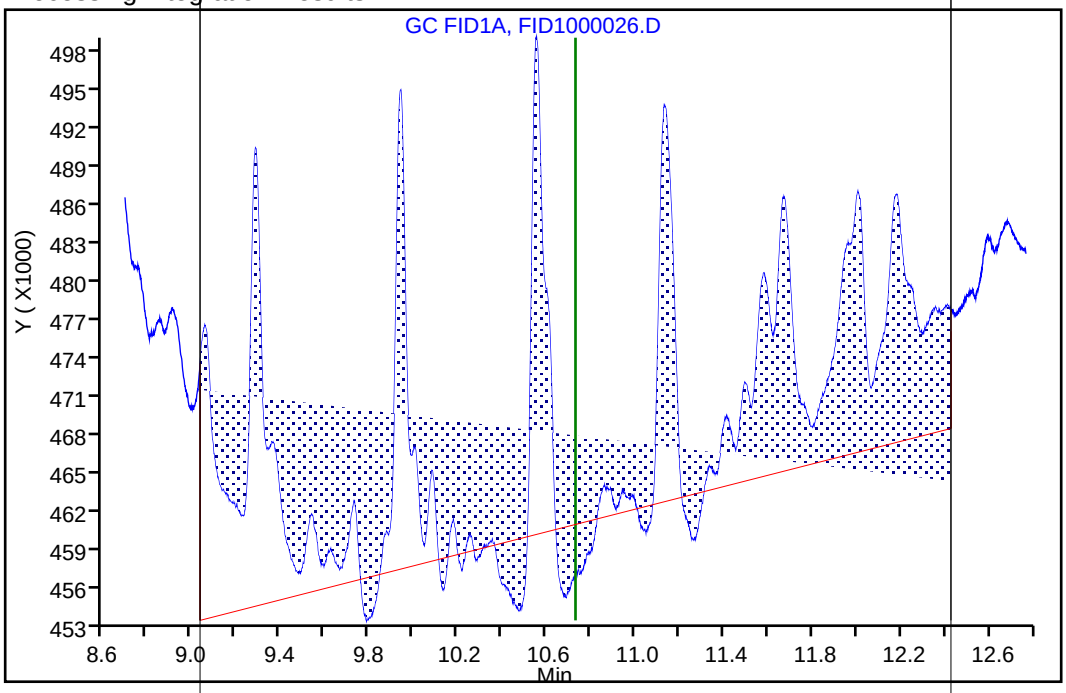
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000026.D				
Injection Date:	27-Dec-2018 22:48:41	Instrument ID:	CHDRO6		
Lims ID:	720-90446-F-24-A	Lab Sample ID:	720-90446-24		
Client ID:	DG-O4S-9.5-10				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.730, CAS: STL00158

Signal: 1

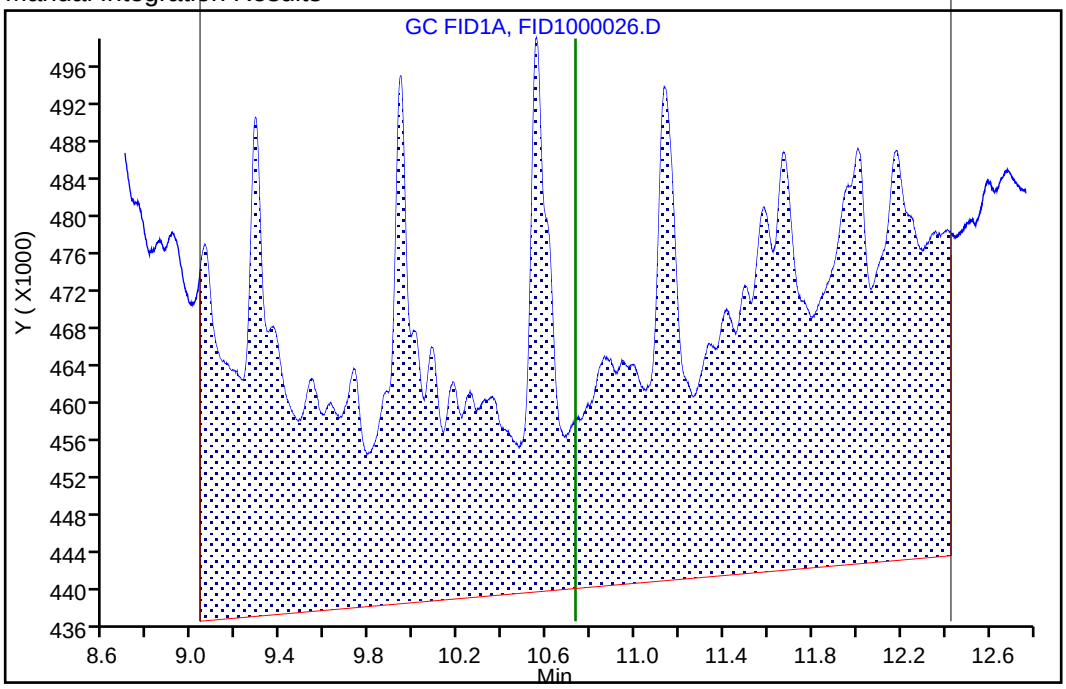
Processing Integration Results

RT: 10.73
Response: 27413571
Amount: 38.562686



Manual Integration Results

RT: 10.73
Response: 114999762
Amount: 161.7702



Reviewer: hayashid, 28-Dec-2018 06:38:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc Address: 17461 Derian Ave, Suite 100, City: Irvine State, Zip: CA, 92614-5817 Phone: 949-261-1022(Tel) 949-260-3297(Fax) Email:	Sampler: Phone: Due Date Requested: 1/2/2019 TAT Requested (days): PO #: WO #: Project #: 72013947 SSOW#:	Lab PM: Patel, Urvashi E-Mail: urvashi.patel@testamericainc.com Accreditations Required (See note): State Program - California	Carrier Tracking No(s): State of Origin: California	COC No: 720-40592.1 Page: Page 1 of 4 Job #: 720-90446-1

Project Name: Brisbane OU-2 Data Gap Investigation
Site:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB List	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid			X	X	X			3	4
DG-AC3S-0.5-1 (720-90446-1MS)	12/19/18	08:30 Pacific	MS	Solid			X	X	X			3	4
DG-AC3S-0.5-1 (720-90446-1MSD)	12/19/18	08:30 Pacific	MSD	Solid			X	X	X			3	4
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid			X	X	X			3	4
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid			X	X	X			3	4
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid			X	X	X			3	4
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid			X	X	X			3	4
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid			X	X	X			3	4
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid			X	X	X			3	4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12-20-18	Company PLEA	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - Di Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AI3S-0.5-1 (720-90446-7MS)	12/19/18	11:30 Pacific	MS	Solid			X	X	X			3	4
DG-AI3S-0.5-1 (720-90446-7MSD)	12/19/18	11:30 Pacific	MSD	Solid			X	X	X			3	4
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid			X	X	X			3	4
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid			X	X	X			3	4
DG-AK3S-3.5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid			X	X	X			3	4
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid			X	X	X			3	4
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid			X	X	X			3	4
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid			X	X	X			3	4
DG-AOS-0.5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid			X	X	X			3	4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	12-20-18	AES			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB List	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AOS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid			X	X	X			3	
DG-AQS-0.5-1 (720-90446-16)	12/19/18	15:05 Pacific		Solid			X	X	X			3	
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid			X	X	X			3	
TB-121918 (720-90446-18)	12/19/18	Pacific		Water						X	X	2	check for 2 phases
DG-N4S-8.5-9 (720-90446-19)	12/19/18	11:19 Pacific		Solid			X	X				4	
DG-N4S-4.5-5 (720-90446-20)	12/19/18	10:54 Pacific		Solid			X	X				4	
DG-P4S-4.5-5 (720-90446-21)	12/19/18	09:55 Pacific		Solid			X	X				4	
DG-O4S-4.5-5 (720-90446-22)	12/19/18	10:30 Pacific		Solid			X	X				4	
DG-P4S-7.5-8 (720-90446-23)	12/19/18	10:05 Pacific		Solid			X	X				4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 12-20-18	Company: AES	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-O4S-9.5-10 (720-90446-24)	12/19/18	11:11 Pacific		Solid			X	X				4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Jeeran Mueller	Date/Time: 12-20-18	Company: TAPS	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90446

Chain of Custody Record

18748

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahrilas@geosyntec com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90446 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-AC35-0.5-1	12/19/18	0830	G	S	8 (2)	N	X	X	X	X	X	X	X	X	
2 DG-AC35-3.5-4		0830			8										
3 DG-AE35-0.5-1		0900			8		X								client-req MS/MSD not
4 DG-AE35-3.5-4		0900			8										
5 DG-AG35-0.5-1		0950			8										
6 DG-AG35-3.5-4		0950			8										
7 DG-AI35-0.5-1		1130			8 (2) 10		X								
8 DG-AI35-3.5-4		1130			8										
9 DG-AK35-0.5-1		1300			8										
10 DG-AK35-3.5-4		1300			8										
11 DUP-17		—			8										
12 DG-AM35-0.5-1	↓	1345	↓	↓	8			↓	↓	↓	↓	↓	↓	↓	

Page 167 of 181

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Dispose of extra AC35 MS/MSD vials & samples labled "DO NOT ANALYZE"

1.6, 1.3, 1.0, 1.4, 2.5, 1.2, 1.0, 2.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company Geosyntec	Date/Time 12/19/18 1645	Received by	Company TAPLS	Date/Time 12/19/18 1647
Relinquished by	Company TAPLS	Date/Time 12/19/18 1930	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 12/19/18 1930

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90446 Chain of Custody Record

187486

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/19/18	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client.
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-AM35-3.5-4	12/19/18	1345	G	S	6	N		X	X	X	X	X	X	X	
14	DG-AO35-0.5-1		1435			8										
15	DG-AO35-3.5-4		1435													
16	DG-AQ35-0.5-1		1505													
17	DG-AQ35-3.5-4		1505													
18	TB-121918	—	—	TB	W				X	X		X	(BL)			VOCs only
19	DG-N45-8.5-9	12/19/18	1119	G	S	6			X	X		X				
20	DG-N45-4.5-5		1054			6										
21	DG-P45-4.5-5		0958			6										
22	DG-O45-4.5-5		1030			6										
23	DG-P45-7.5-8		1005			6										
24	DG-O45-9.5-10		1111			5										

Page 168 of 181

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by	Company: Geosyntec	Date/Time: 12/19/18 1645	Received by	Company: TA PLS	Date/Time: 12/19/18 1645
Relinquished by	Company: TA PLS	Date/Time: 12/19/18 1930	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 12/19/18 1930

720-90446
WED. TERRA COTES

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC01

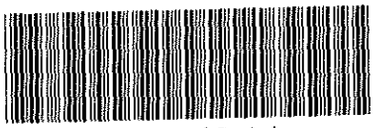
FedEx Express Package(s) - Dropped Off
463602765906

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 19, 2018 5:09:58 PM



720-90446-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035 8260-(MOD) VOCs	8260B/CA_LUFTMS/5035 8260-C4-C12 Volatile Fuel Hydrocarbons	Special
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid	X	X	X		4
DG-AC3S-0.5-1 (720-90446-1MS)	12/19/18	08:30 Pacific	MS	Solid	X	X	X		4
DG-AC3S-0.5-1 (720-90446-1MSD)	12/19/18	08:30 Pacific	MSD	Solid	X	X	X		4
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid	X	X	X		4
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid	X	X	X		4
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid	X	X	X		4
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid	X	X	X		4
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid	X	X	X		4
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid	X	X	X		4

720-90446 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-20-18	Pleas			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Encores or Terracores Frozen Date: 12/20/18 Time: 11:40 Initials:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AI3S-0.5-1 (720-90446-7MS)	12/19/18	11:30 Pacific	MS	Solid	X	X	X			4
DG-AI3S-0.5-1 (720-90446-7MSD)	12/19/18	11:30 Pacific	MSD	Solid	X	X	X			4
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid	X	X	X			4
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid	X	X	X			4
DG-AK3S-3.5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid	X	X	X			4
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid	X	X	X			4
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid	X	X	X			4
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid	X	X	X			4
DG-AOS-0.5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid	X	X	X			4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 12-20-18	Company: PES	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013847			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wastewater, Sewage, C=wastewater, S=Solid, Air=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5035B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AQS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid	X	X	X		
DG-AQS-0.5-1 (720-90446-16)	12/19/18	15:05 Pacific		Solid	X	X	X		
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid	X	X	X		
TB-121918 (720-90446-18)	12/19/18	Pacific		Water				X	X	check for 2 phases
DG-N4S-8.5-9 (720-90446-19)	12/19/18	11:19 Pacific		Solid	X	X			
DG-N4S-4.5-5 (720-90446-20)	12/19/18	10:54 Pacific		Solid	X	X			
DG-P4S-4.5-5 (720-90446-21)	12/19/18	09:55 Pacific		Solid	X	X			
DG-O4S-4.5-5 (720-90446-22)	12/19/18	10:30 Pacific		Solid	X	X			
DG-P4S-7.5-8 (720-90446-23)	12/19/18	10:05 Pacific		Solid	X	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 12-20-18	Company: TAS	Received by:		Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:		Company
Relinquished by:	Date/Time	Company	Received by:		Date/Time:		Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No :		Cooler Temperature(s) °C and Other Remarks:				

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-O4S-9.5-10 (720-90446-24)	12/19/18	11:11 Pacific		Solid	X	X				

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid	X	X	X			4
DG-AC3S-0.5-1 (720-90446-1MS)	12/19/18	08:30 Pacific	MS	Solid	X	X	X			4
DG-AC3S-0.5-1 (720-90446-1MSD)	12/19/18	08:30 Pacific	MSD	Solid	X	X	X			4
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid	X	X	X			4
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid	X	X	X			4
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid	X	X	X			4
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid	X	X	X			4
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid	X	X	X			4
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid	X	X	X			4

720-90446 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
John Mullin	12-20-18	Pleasanton			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Samples Frozen
Date: 12/21/18 Page 69 of 70
Time: 11:40 Initials:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5617				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastoil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AI3S-0.5-1 (720-90446-7MS)	12/19/18	11:30 Pacific	MS	Solid	X	X	X		4
DG-AI3S-0.5-1 (720-90446-7MSD)	12/19/18	11:30 Pacific	MSD	Solid	X	X	X		4
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid	X	X	X		4
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid	X	X	X		4
DG-AK3S-3 5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid	X	X	X		4
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid	X	X	X		4
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid	X	X	X		4
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid	X	X	X		4
DG-AOS-0 5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid	X	X	X		4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	Return To Client / Disposal By Lab / Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5030A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AOS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid	X	X			4
DG-AQS-0.5-1 (720-90446-16)	12/19/18	15:05 Pacific		Solid	X	X			4
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid	X	X			4
TB-121918 (720-90446-18)	12/19/18	Pacific		Water			X	X	check for 2 phases
DG-N4S-8.5-9 (720-90446-19)	12/19/18	11:19 Pacific		Solid	X	X			
DG-N4S-4.5-5 (720-90446-20)	12/19/18	10:54 Pacific		Solid	X	X			
DG-P4S-4.5-5 (720-90446-21)	12/19/18	09:55 Pacific		Solid	X	X			
DG-O4S-4.5-5 (720-90446-22)	12/19/18	10:30 Pacific		Solid	X	X			
DG-P4S-7.5-8 (720-90446-23)	12/19/18	10:05 Pacific		Solid	X	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment

Relinquished by:	Date/Time: 12-20-18	Company: Hes	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40592.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-O4S-9.5-10 (720-90446-24)	12/19/18	11:11 Pacific		Solid	X	X				

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4636 0276155	COC No: 720-40592.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_E_FW 8260-(MOD) VOCs + ORO	8260B/CA_LUFTMS/5035A_E_FW 8260-(MOD) VOCs + ORO	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:					Volatile Fuel Hydrocarbons					
DG-AC3S-0.5-1 (720-90446-1)	12/19/18	08:30 Pacific		Solid			X	X	X			1	
DG-AC3S-0.5-1 (720-90446-1MS)	12/19/18	08:30 Pacific	MS	Solid			X	X	X			1	on ice cont.
DG-AC3S-0.5-1 (720-90446-1MSD)	12/19/18	08:30 Pacific	MSD	Solid			X	X	X			1	
DG-AC3S-3.5-4 (720-90446-2)	12/19/18	08:30 Pacific		Solid			X	X	X			1	
DG-AE3S-0.5-1 (720-90446-3)	12/19/18	09:00 Pacific		Solid			X	X	X			1	
DG-AE3S-3.5-4 (720-90446-4)	12/19/18	09:00 Pacific		Solid			X	X	X			1	
DG-AG3S-0.5-1 (720-90446-5)	12/19/18	09:50 Pacific		Solid			X	X	X			1	
DG-AG3S-3.5-4 (720-90446-6)	12/19/18	09:50 Pacific		Solid			X	X	X			1	
DG-AI3S-0.5-1 (720-90446-7)	12/19/18	11:30 Pacific		Solid			X	X	X			1	on ice cont.

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/20/18 1258	TAPLS			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	12/21/18 10:00	TA-IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4636 0276 6155	COC No: 720-40592.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AI3S-0.5-1 (720-90446-7MS)	12/19/18	11:30 Pacific	MS	Solid			X	X	X			1	on 1 cont.
DG-AI3S-0.5-1 (720-90446-7MSD)	12/19/18	11:30 Pacific	MSD	Solid			X	X	X			1	
DG-AI3S-3.5-4 (720-90446-8)	12/19/18	11:30 Pacific		Solid			X	X	X			1	
DG-AK3S-0.5-1 (720-90446-9)	12/19/18	13:00 Pacific		Solid			X	X	X			1	
DG-AK3S-3.5-4 (720-90446-10)	12/19/18	13:00 Pacific		Solid			X	X	X			1	
DUP-17 (720-90446-11)	12/19/18	Pacific		Solid			X	X	X			1	
DG-AMS-0.5-1 (720-90446-12)	12/19/18	13:45 Pacific		Solid			X	X	X			1	
DG-AMS-3.5-4 (720-90446-13)	12/19/18	13:45 Pacific		Solid			X	X	X			1	
DG-AOS-0.5-1 (720-90446-14)	12/19/18	14:35 Pacific		Solid			X	X	X			1	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/20/18 1358	TAPL			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/21/18 10:00	Company TA-PLV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No :	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4636 0276 6155	COC No: 720-40592.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD)-VOCs	8260B/CA_LUFTMS/5030B 8260-C4C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AOS-3.5-4 (720-90446-15)	12/19/18	14:35 Pacific		Solid			X	X	X			3	1
DG-AQS-0.5-1 (720-90446-16)	12/19/18	15:05 Pacific		Solid			X	X	X			3	1
DG-AQS-3.5-4 (720-90446-17)	12/19/18	15:05 Pacific		Solid			X	X	X			3	1
TB-121918 (720-90446-18)	12/19/18	Pacific		Water						X	X	2	check for 2 phases
DG-N4S-8.5-9 (720-90446-19)	12/19/18	11:19 Pacific		Solid			X	X				2	0
DG-N4S-4.5-5 (720-90446-20)	12/19/18	10:54 Pacific		Solid			X	X				2	0
DG-P4S-4.5-5 (720-90446-21)	12/19/18	09:55 Pacific		Solid			X	X				2	0
DG-O4S-4.5-5 (720-90446-22)	12/19/18	10:30 Pacific		Solid			X	X				2	0
DG-P4S-7.5-8 (720-90446-23)	12/19/18	10:05 Pacific		Solid			X	X				2	0

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
	12/20/18 1358	TAPLS			
Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 12/21/18 10:00	Company TA-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 463t 0276155	COC No: 720-40592.4
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90446-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/2/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_E_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_E_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-O4S-9.5-10 (720-90446-24)	12/19/18	11:11 Pacific		Solid			X	X				2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/20/18 1358	TAPLS			
2	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	12/21/18 10:00	TA-IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90478-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/10/2019 1:32 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/10/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90478-1

Comments
See client email in correspondences for sample receipt discrepancies.

Receipt
The samples were received on 12/20/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.5º C, 0.8º C, 1.0º C, 1.1º C, 1.3º C, 1.4º C, 2.0º C and 3.5º C.

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
TB The vial labels do not have the client ID, date, or company name filled out, these vials have a TA Pleasanton Trip Blank label on them TB-PLS TB: HCL LOT: 111618, while the COC lists TB..
FB The vial labels do not have the client ID, date, or company name filled out, while the COC lists FB.

The following samples were received with a air bubble > 1/4" in the sample vials:
(#5) DG-AV5W 1of3 vials had an air bubble > 1/4".
(#10) DG-AP5W 1of3 vials had an air bubble > 1/4".
(#11) DG-AN5W 1of3 vials had an air bubble > 1/4".

GC/MS VOA
Methods:8260B/ 8260B/CA_LUFTMS: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was 3 and the following sample was analyzed after 7 days from sampling: DG-AT5W (720-90478-6).

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-520246 recovered above the upper control limit for 2-Hexanone and 4-Methyl-2-pentanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-520246 recovered outside control limits for the following analytes: 2-Hexanone, 4-Methyl-2-pentanone and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-519211 and analytical batch 440-519249. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-519211/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-519211. 3510/8081/8082

Method 3510C: Due to the matrix, the following samples could not be concentrated to the final method required volume: The reporting limits (RLs) are elevated proportionately. 3510/8015B : 720-90478-1(DG-AS3W), 720-90478-2 (DUP-18) and 720-90478-4 (DG-AX5W)

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 3520C_8270C-SIM-PAH preparation batch 440-518961.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-519311. 3520C/8270 SIM PAH

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a035.d				
Lims ID:	720-90478-G-1-A				
Client ID:	DG-AS3W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 21:01:38	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 12:28:18	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 12:28:40		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.598	(1.883-7.293)		5511730	1668.3	
$ 127 n-Octacosane	7.107	7.112	-0.005	285808	87.7	
A 136 C24-C36	7.389	(5.842-8.937)		4298691	1301.1	

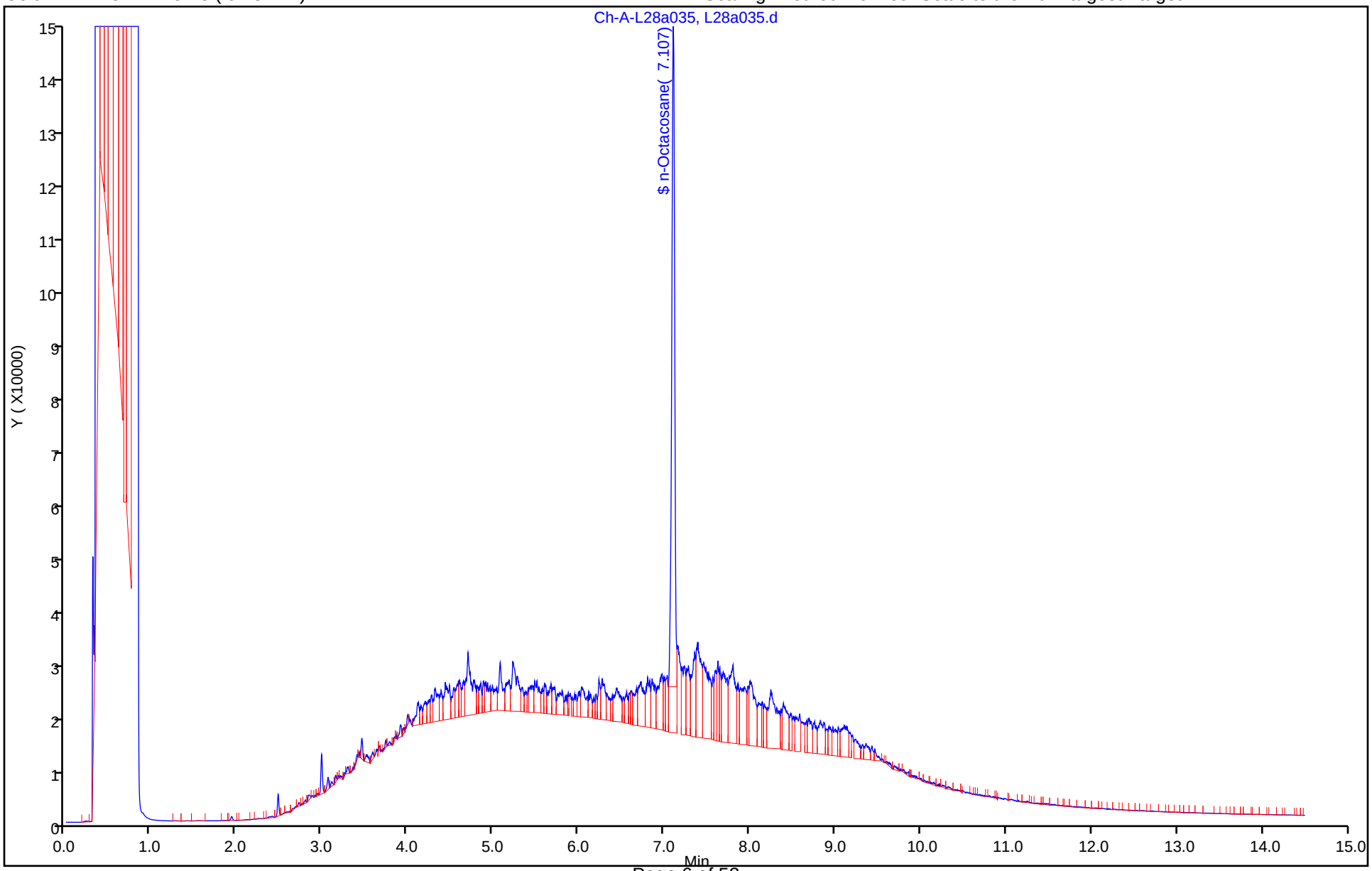
Report Date: 30-Dec-2018 12:28:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a035.d

Injection Date:	28-Dec-2018 21:01:38	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-G-1-A	Lab Sample ID:	440-90478-1	Worklist Smp#:	35
Client ID:	DG-AS3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a035.d				
Lims ID:	720-90478-G-1-A				
Client ID:	DG-AS3W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 21:01:38	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 12:28:18	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				

First Level Reviewer: doanm Date: 30-Dec-2018 12:28:40

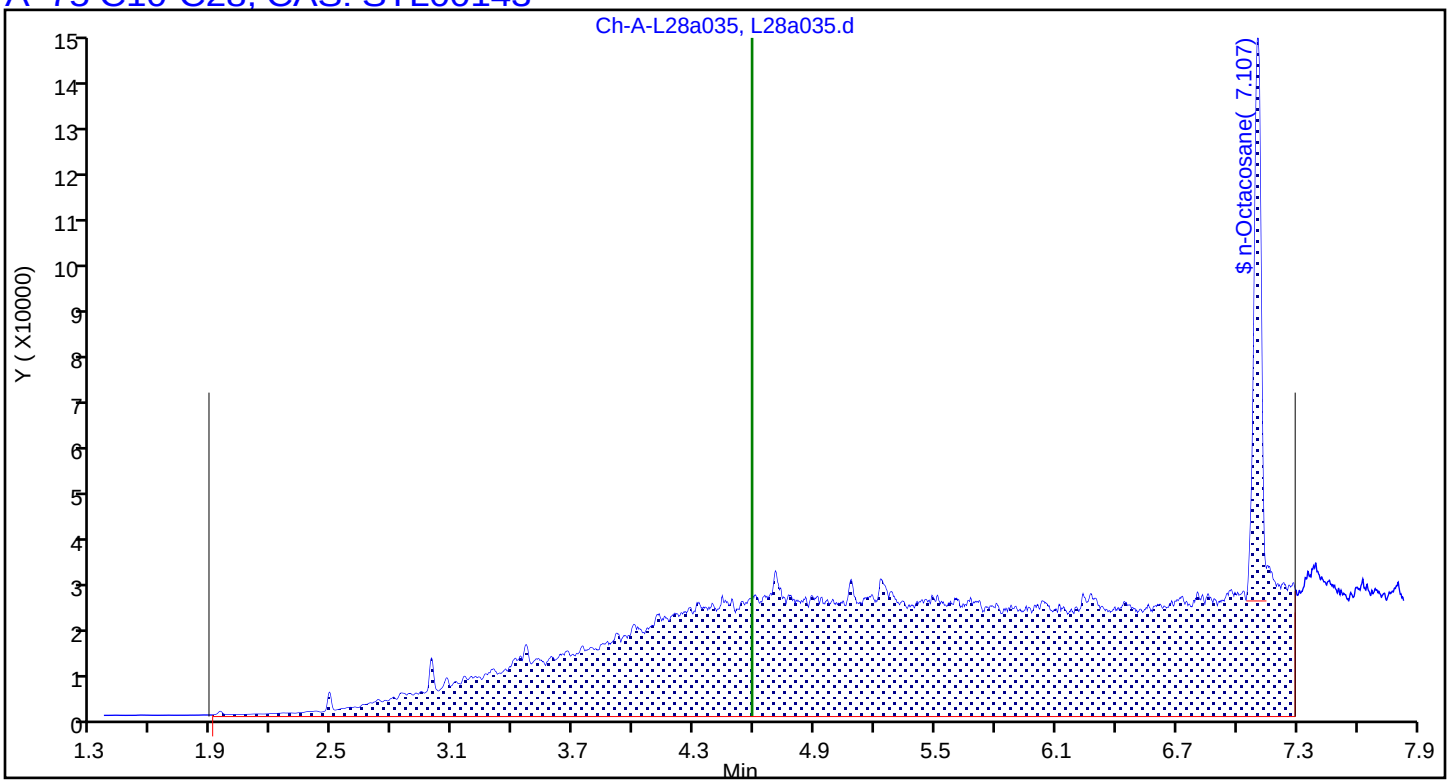
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	87.7	87.72

Report Date: 30-Dec-2018 12:28:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a035.d				
Injection Date:	28-Dec-2018 21:01:38	Instrument ID:	GC69A		
Lims ID:	720-90478-G-1-A	Lab Sample ID:	440-90478-1		
Client ID:	DG-AS3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

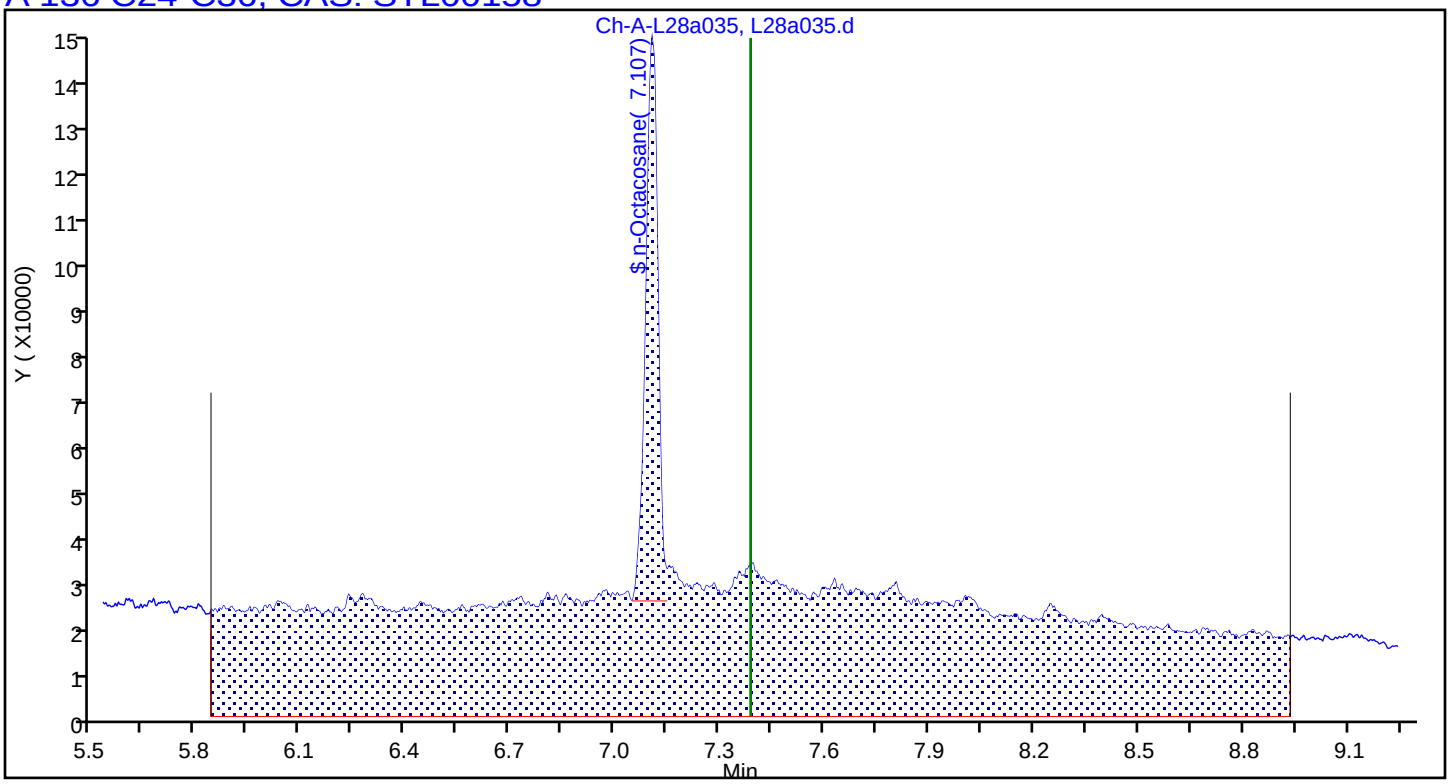


Report Date: 30-Dec-2018 12:28:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a035.d				
Injection Date:	28-Dec-2018 21:01:38	Instrument ID:	GC69A		
Lims ID:	720-90478-G-1-A	Lab Sample ID:	440-90478-1		
Client ID:	DG-AS3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a036.d				
Lims ID:	720-90478-G-2-A				
Client ID:	DUP-18				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 21:22:06	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 12:28:18	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:45:10		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.602	(1.883-7.293)		4074559	1233.3	
$ 127 n-Octacosane	7.102	7.112	-0.010	269358	82.7	
A 136 C24-C36	7.389	(5.842-8.937)		3200837	968.8	

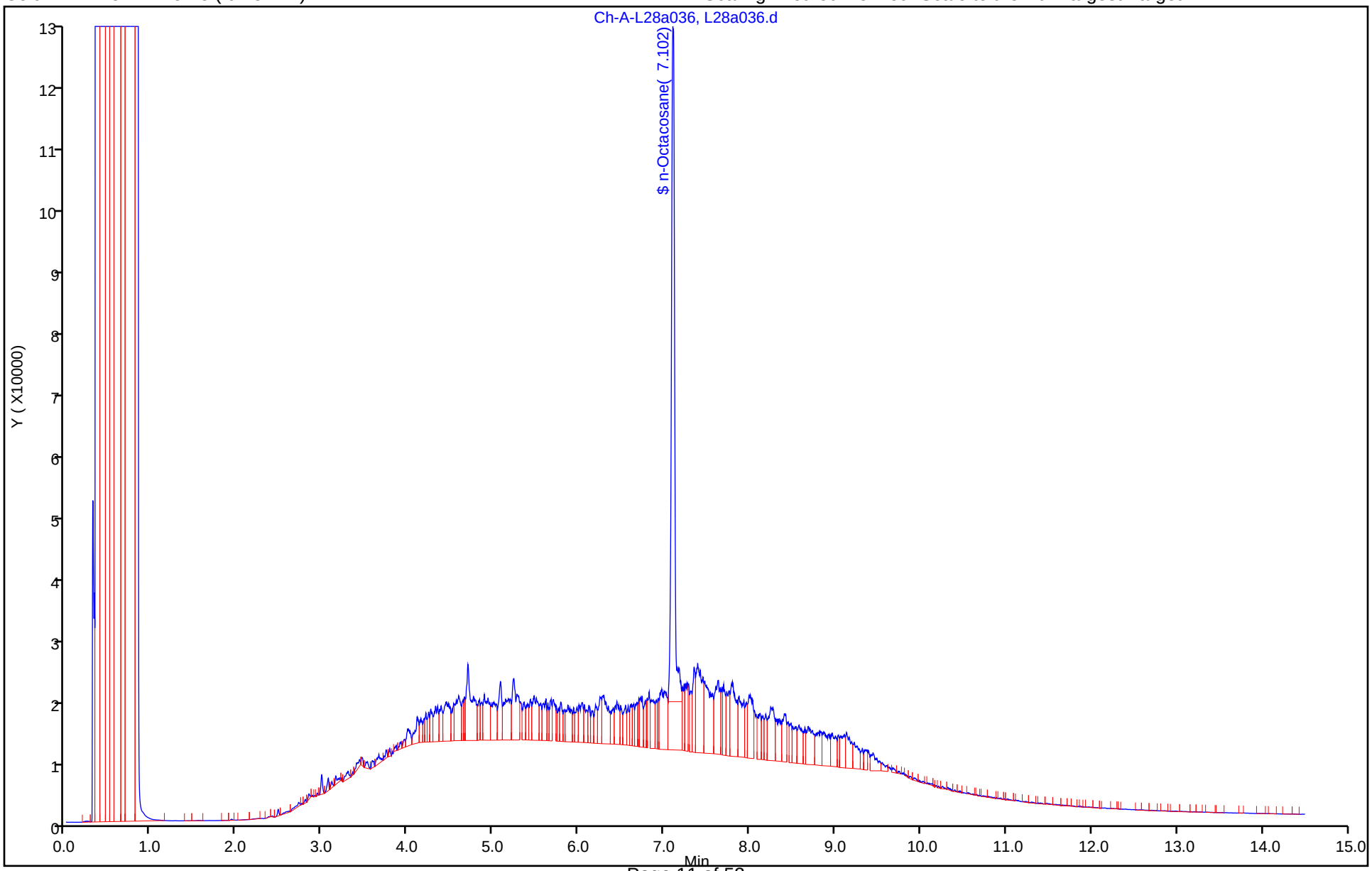
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a036.d

Injection Date:	28-Dec-2018 21:22:06	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-G-2-A	Lab Sample ID:	440-90478-2	Worklist Smp#:	36
Client ID:	DUP-18				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a036.d				
Lims ID:	720-90478-G-2-A				
Client ID:	DUP-18				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 21:22:06	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 12:28:18	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				

First Level Reviewer: doanm Date: 30-Dec-2018 10:45:10

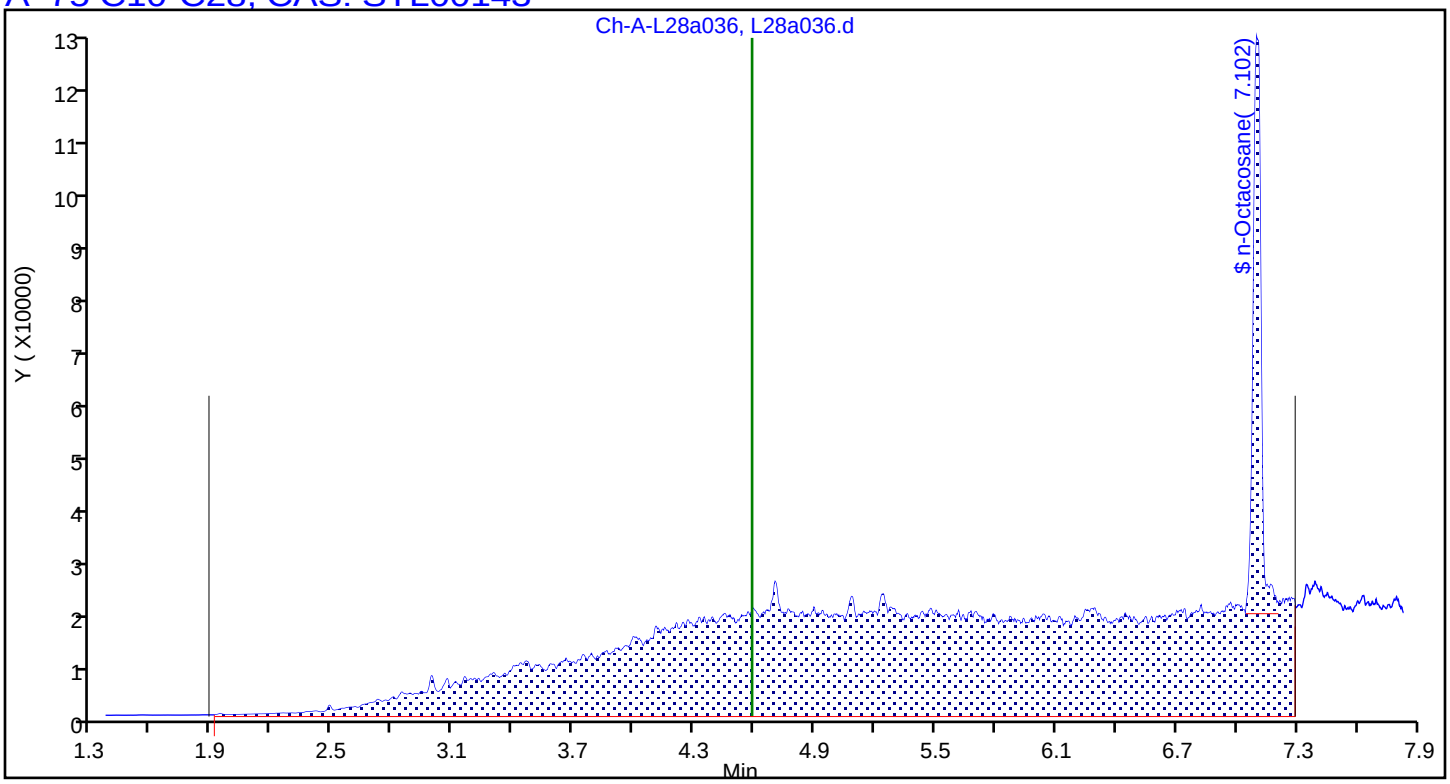
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	82.7	82.67

Report Date: 30-Dec-2018 12:29:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a036.d				
Injection Date:	28-Dec-2018 21:22:06	Instrument ID:	GC69A		
Lims ID:	720-90478-G-2-A	Lab Sample ID:	440-90478-2		
Client ID:	DUP-18				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

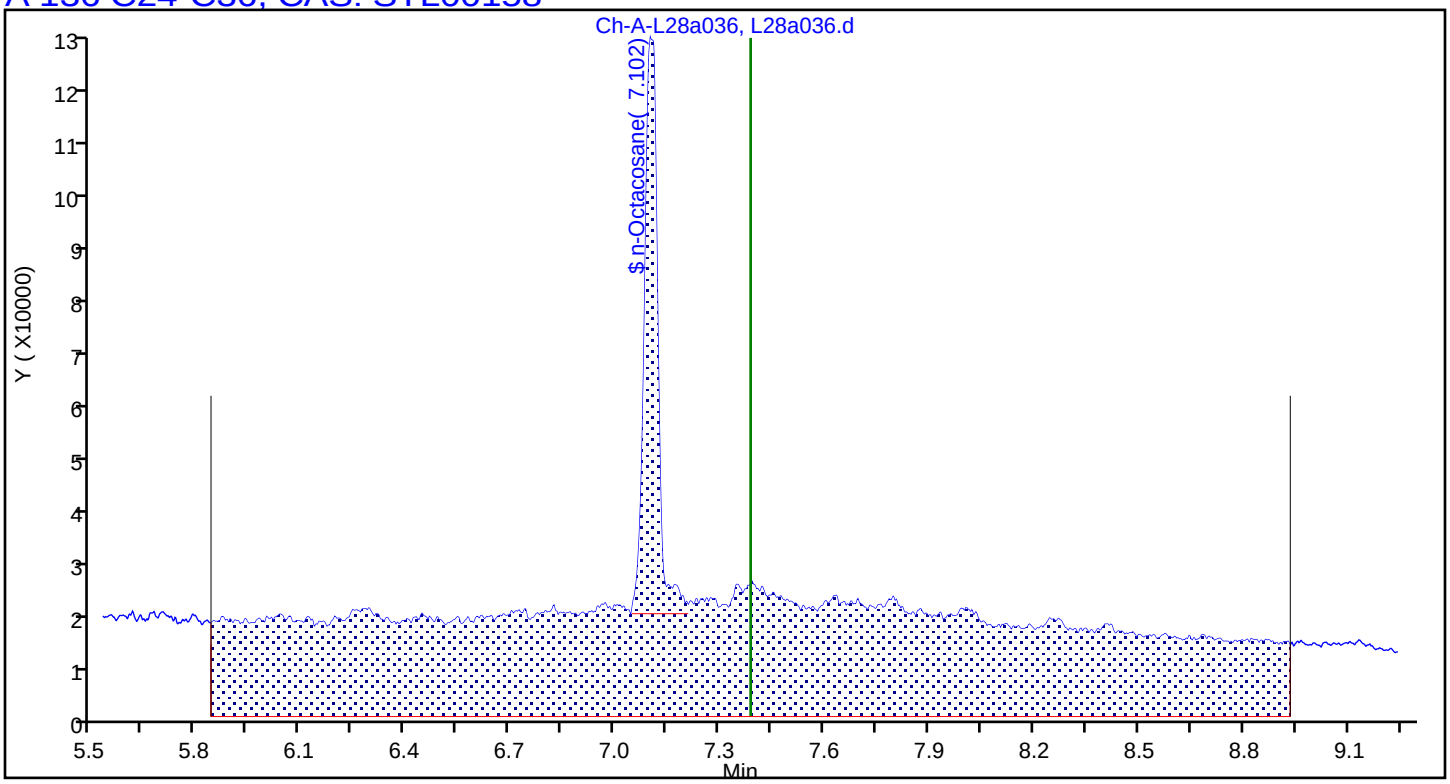


Report Date: 30-Dec-2018 12:29:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a036.d				
Injection Date:	28-Dec-2018 21:22:06	Instrument ID:	GC69A		
Lims ID:	720-90478-G-2-A	Lab Sample ID:	440-90478-2		
Client ID:	DUP-18				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a037.d				
Lims ID:	720-90478-E-3-A				
Client ID:	DG-AU3W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 21:42:23	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:45:28	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:45:28		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.602	(1.910-7.293)		861804	260.9	
$ 127 n-Octacosane	7.107	7.112	-0.005	411873	126.4	
A 136 C24-C36	7.389	(5.842-8.937)		857617	259.6	

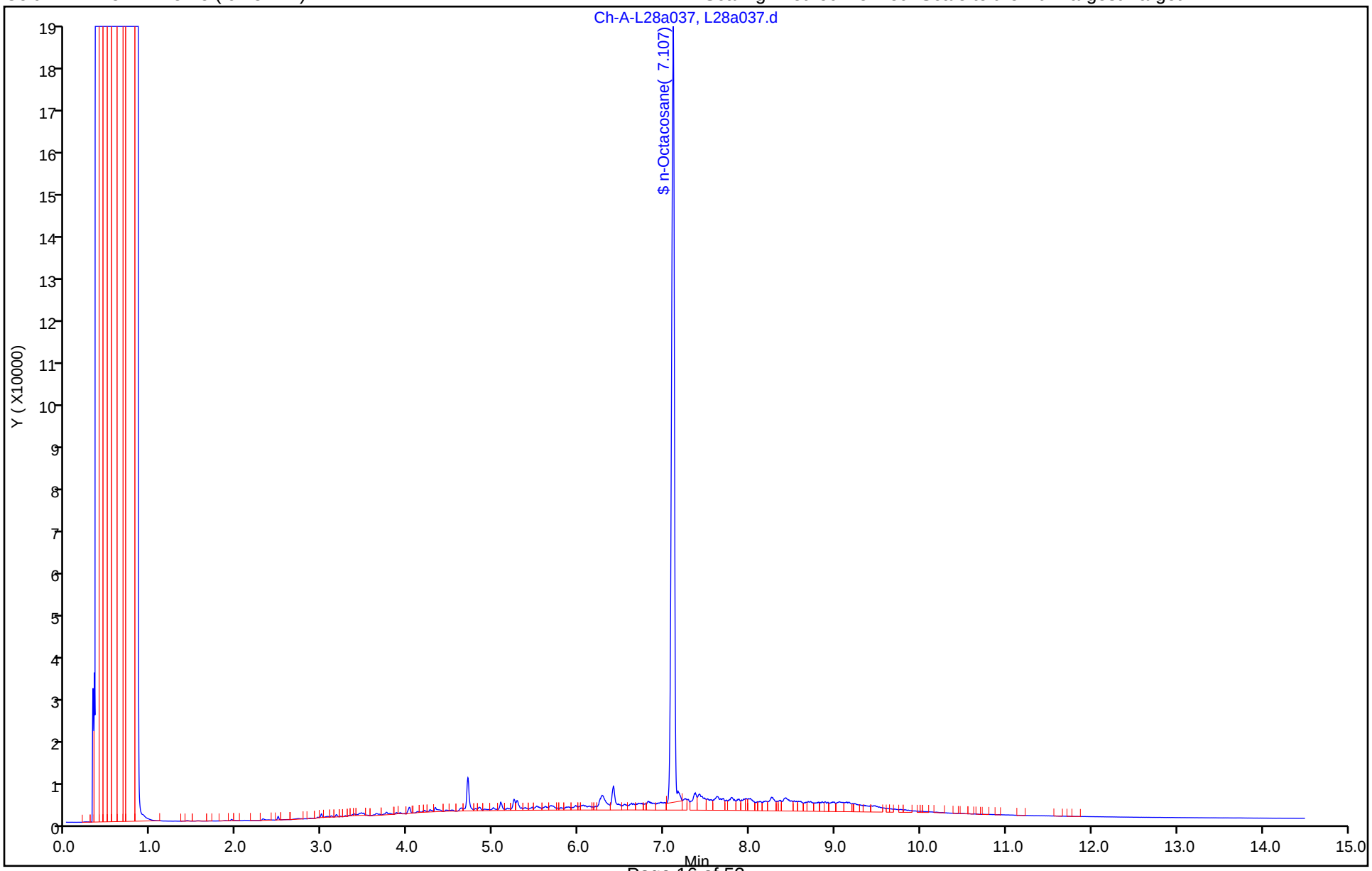
Report Date: 30-Dec-2018 10:45:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a037.d

Injection Date:	28-Dec-2018 21:42:23	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-E-3-A	Lab Sample ID:	440-90478-3	Worklist Smp#:	37
Client ID:	DG-AU3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a037.d				
Lims ID:	720-90478-E-3-A				
Client ID:	DG-AU3W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 21:42:23	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:45:28	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				

First Level Reviewer: doanm Date: 30-Dec-2018 10:45:28

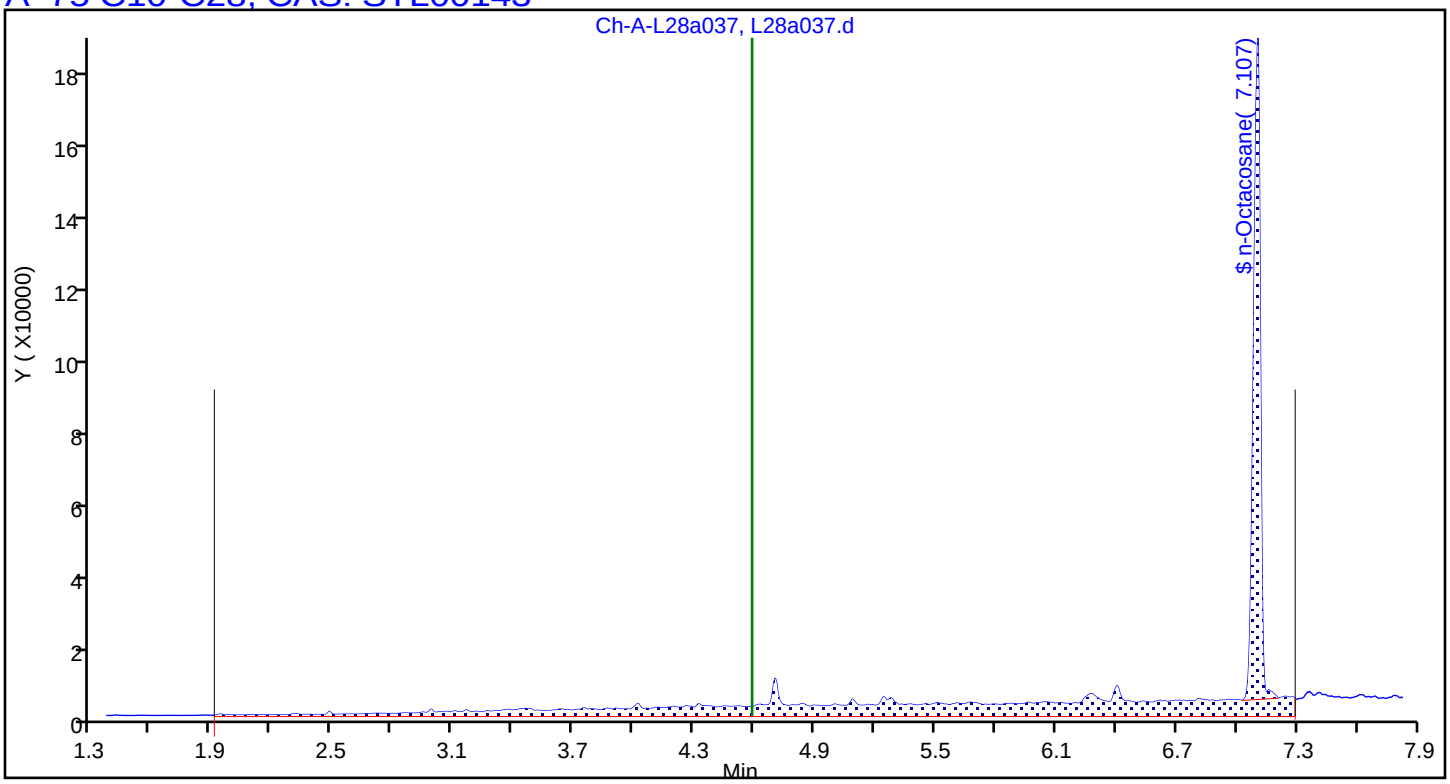
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	126.4	63.21

Report Date: 30-Dec-2018 10:45:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a037.d				
Injection Date:	28-Dec-2018 21:42:23	Instrument ID:	GC69A		
Lims ID:	720-90478-E-3-A	Lab Sample ID:	440-90478-3		
Client ID:	DG-AU3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

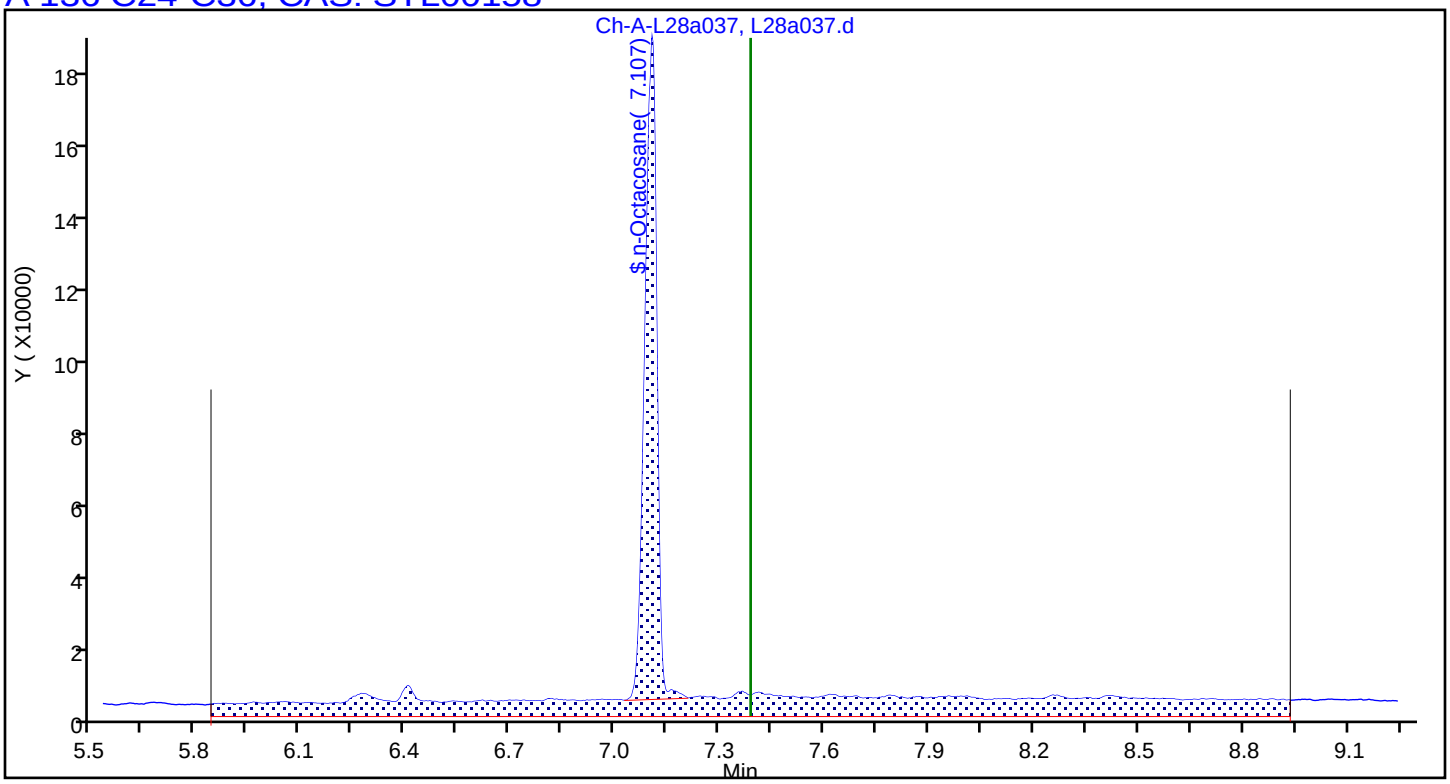


Report Date: 30-Dec-2018 10:45:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a037.d				
Injection Date:	28-Dec-2018 21:42:23	Instrument ID:	GC69A		
Lims ID:	720-90478-E-3-A	Lab Sample ID:	440-90478-3		
Client ID:	DG-AU3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a038.d				
Lims ID:	720-90478-E-4-A				
Client ID:	DG-AX5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 22:02:36	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:45:42	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:45:42		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.588	(1.883-7.293)		1809665	547.8	
$ 127 n-Octacosane	7.102	7.112	-0.010	278657	85.5	
A 136 C24-C36	7.389	(5.842-8.937)		1601519	484.8	

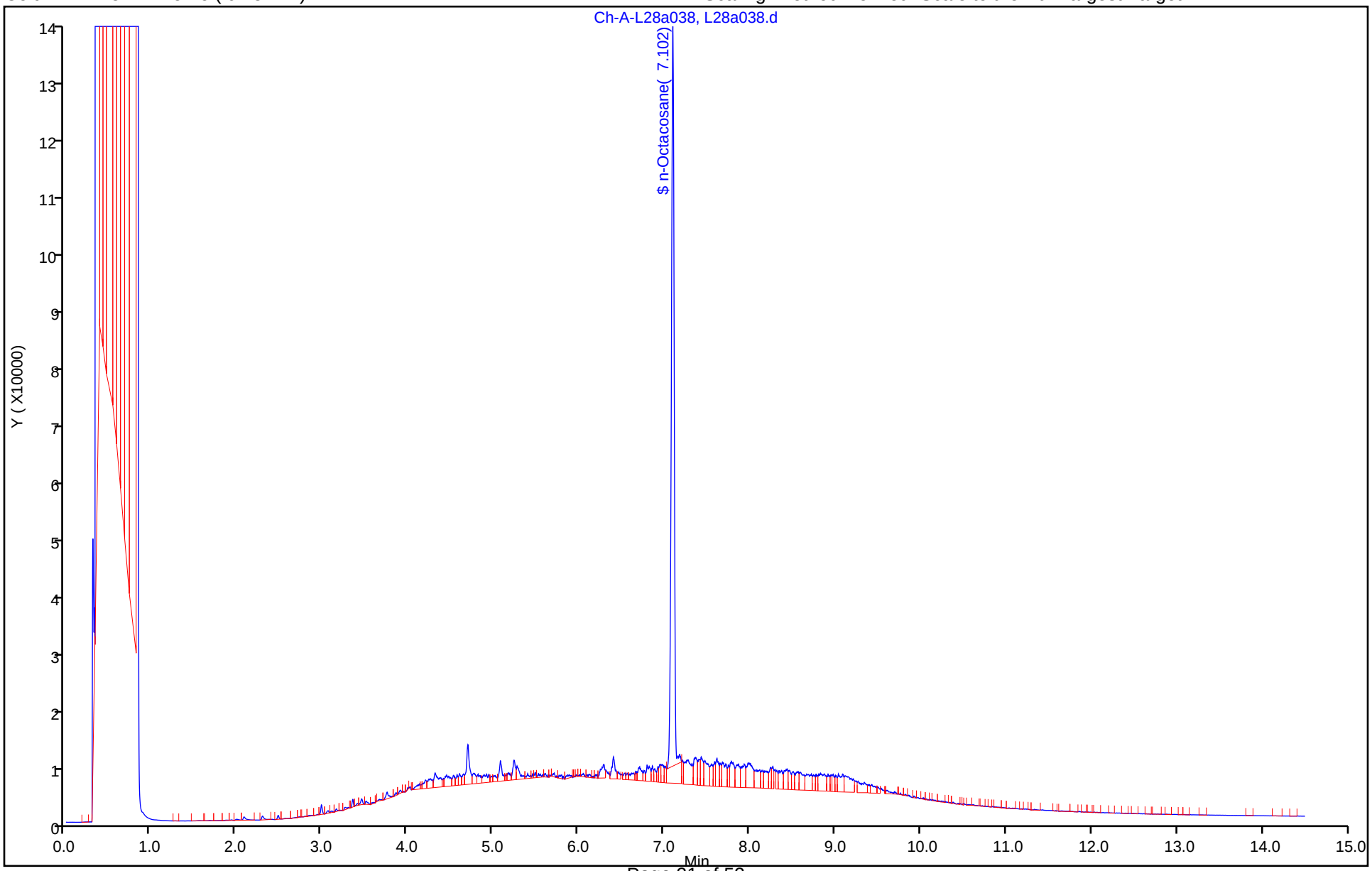
Report Date: 30-Dec-2018 10:45:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a038.d

Injection Date:	28-Dec-2018 22:02:36	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-E-4-A	Lab Sample ID:	440-90478-4	Worklist Smp#:	38
Client ID:	DG-AX5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a038.d				
Lims ID:	720-90478-E-4-A				
Client ID:	DG-AX5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 22:02:36	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:45:42	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:45:42		

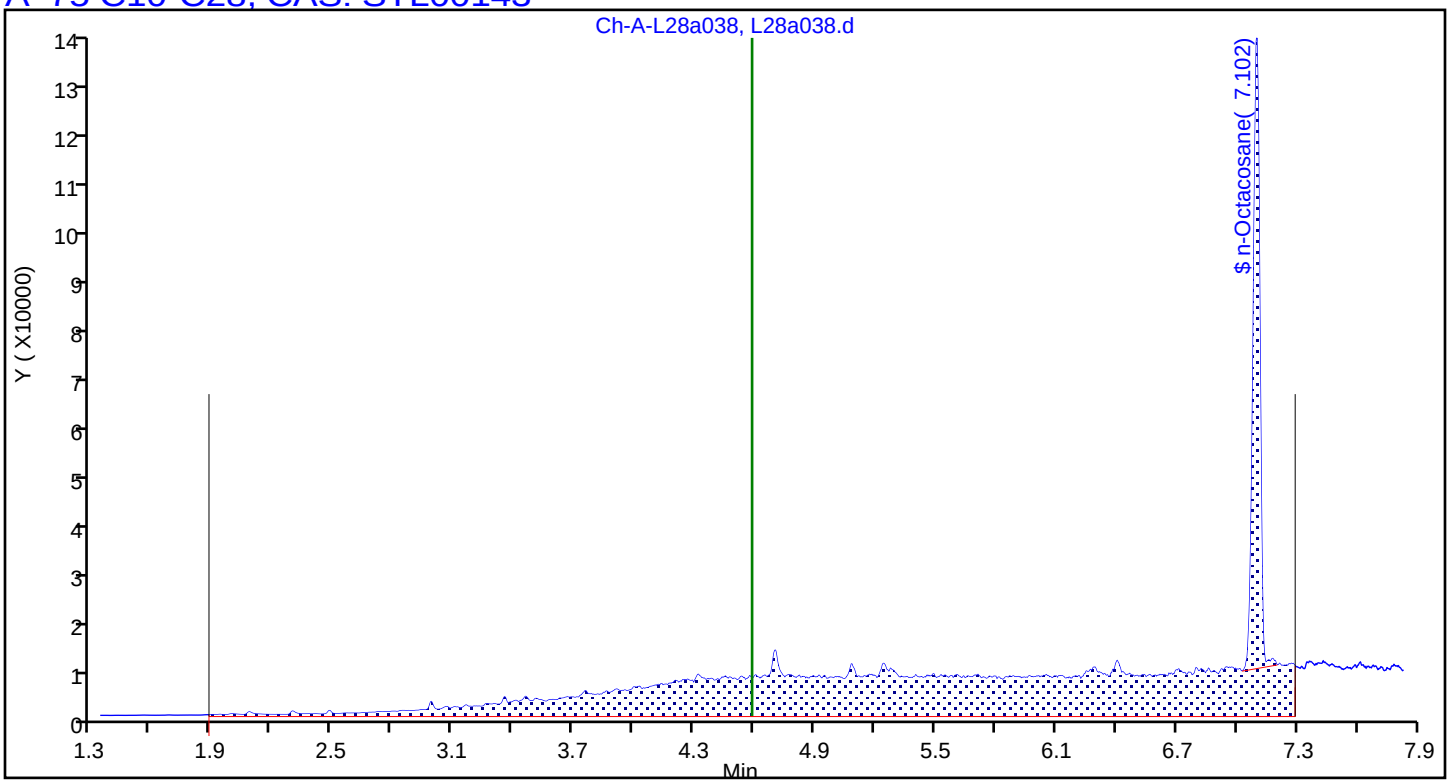
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	85.5	85.53

Report Date: 30-Dec-2018 10:45:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a038.d				
Injection Date:	28-Dec-2018 22:02:36	Instrument ID:	GC69A		
Lims ID:	720-90478-E-4-A	Lab Sample ID:	440-90478-4		
Client ID:	DG-AX5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

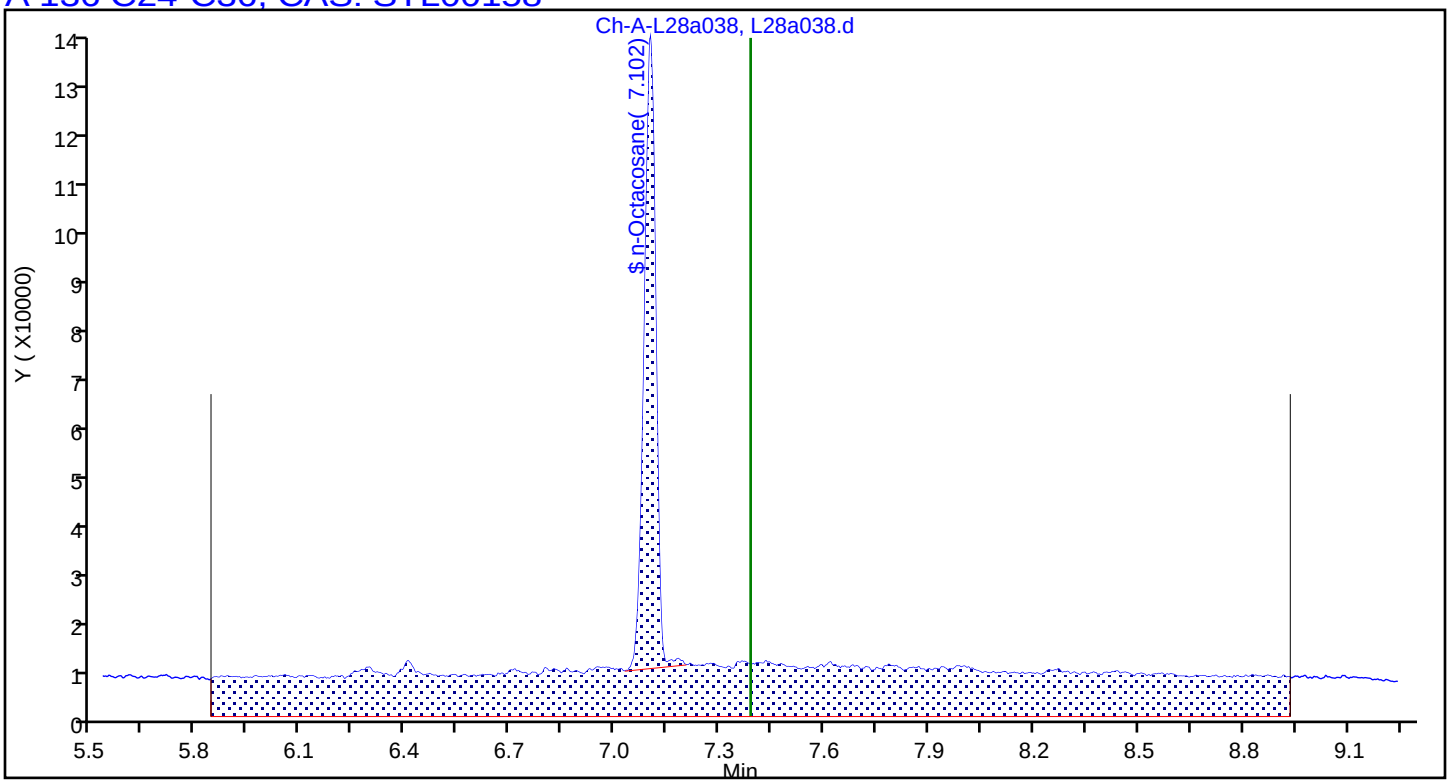


Report Date: 30-Dec-2018 10:45:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a038.d				
Injection Date:	28-Dec-2018 22:02:36	Instrument ID:	GC69A		
Lims ID:	720-90478-E-4-A	Lab Sample ID:	440-90478-4		
Client ID:	DG-AX5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a039.d				
Lims ID:	720-90478-F-5-A				
Client ID:	DG-AV5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 22:23:05	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:46:01	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:46:01		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.603	(1.913-7.293)		729338	220.8	
$ 127 n-Octacosane	7.105	7.112	-0.007	443662	136.2	
A 136 C24-C36	7.389	(5.842-8.937)		540207	163.5	

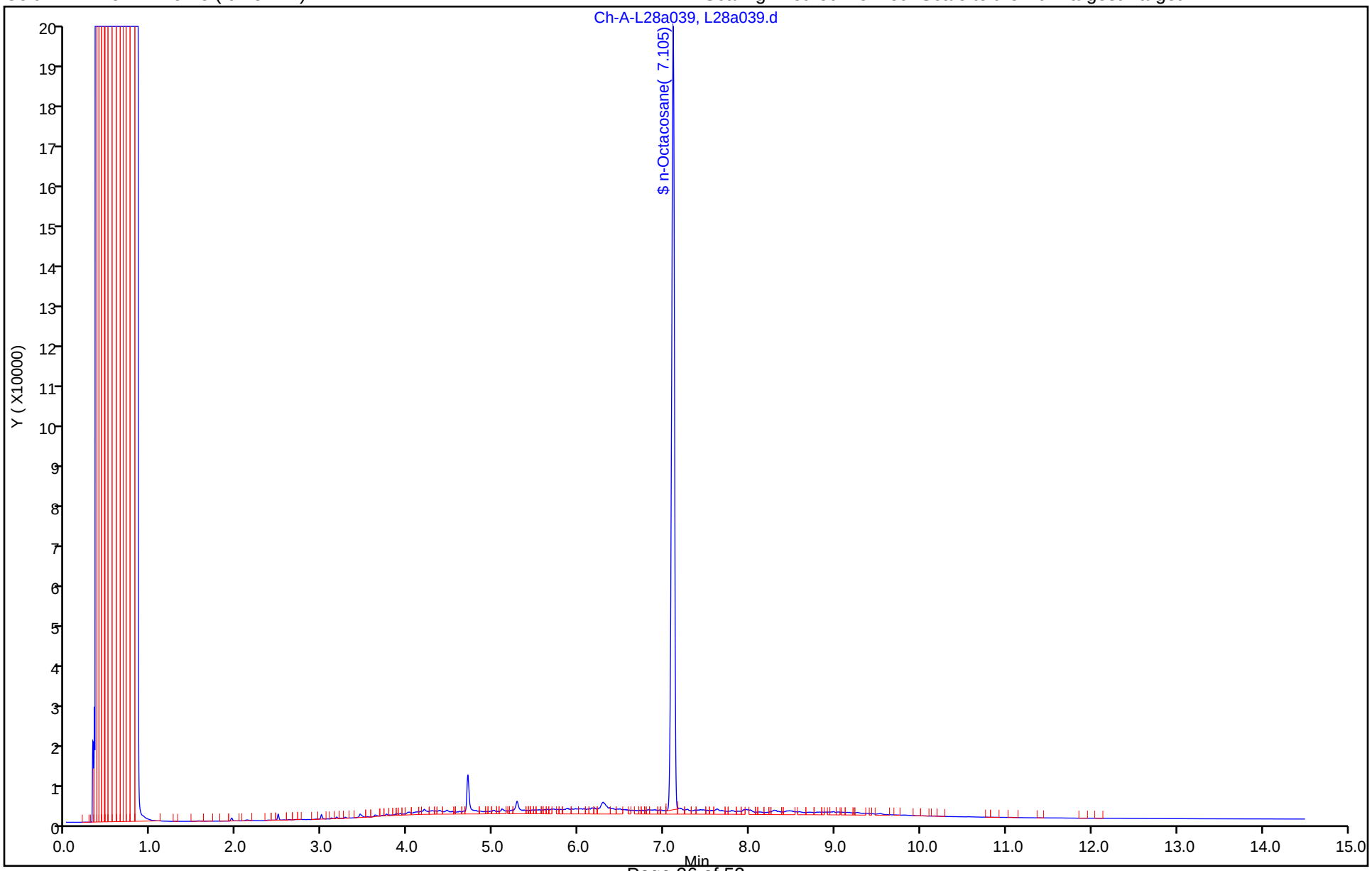
Report Date: 30-Dec-2018 10:46:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a039.d

Injection Date:	28-Dec-2018 22:23:05	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-F-5-A	Lab Sample ID:	440-90478-5	Worklist Smp#:	39
Client ID:	DG-AV5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a039.d				
Lims ID:	720-90478-F-5-A				
Client ID:	DG-AV5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 22:23:05	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:46:01	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:46:01		

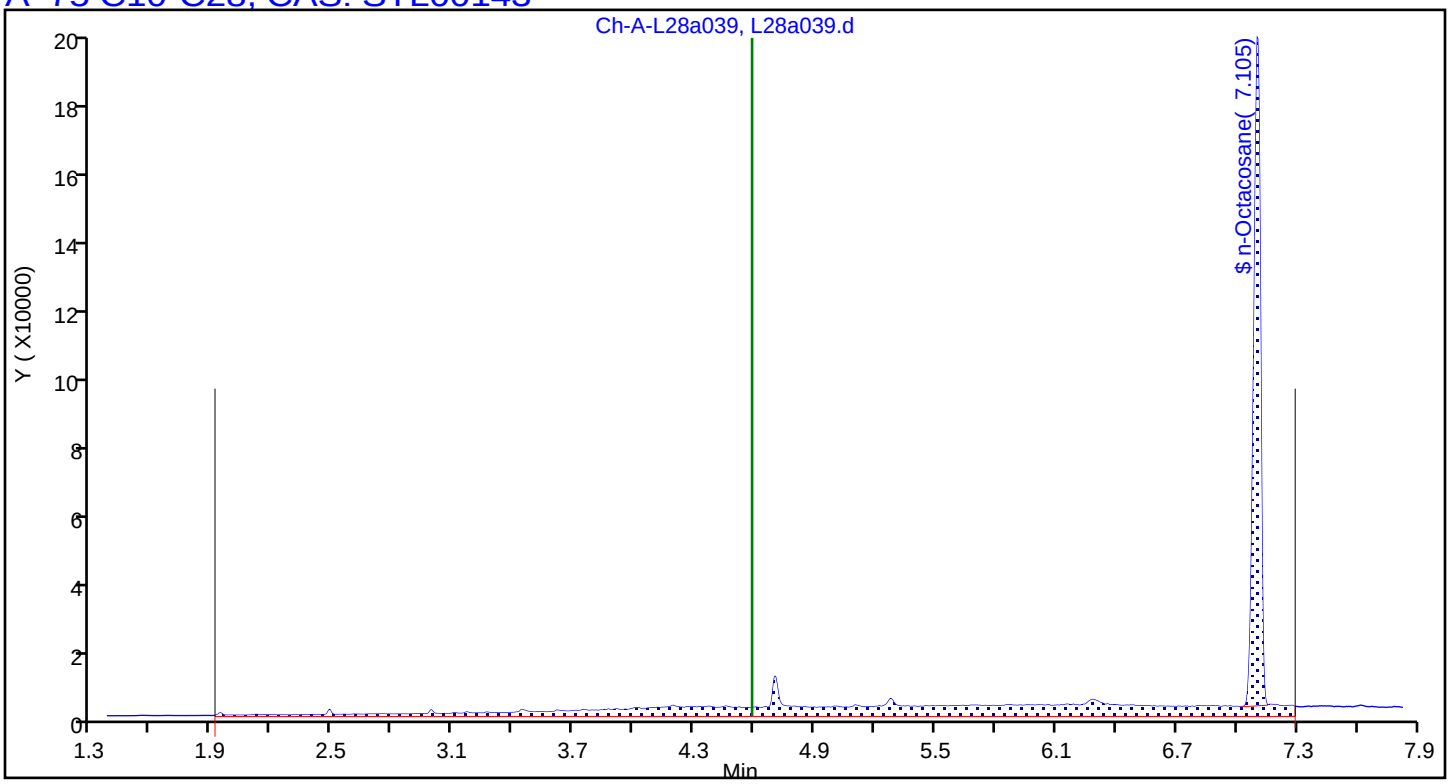
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	136.2	68.09

Report Date: 30-Dec-2018 10:46:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a039.d				
Injection Date:	28-Dec-2018 22:23:05	Instrument ID:	GC69A		
Lims ID:	720-90478-F-5-A	Lab Sample ID:	440-90478-5		
Client ID:	DG-AV5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

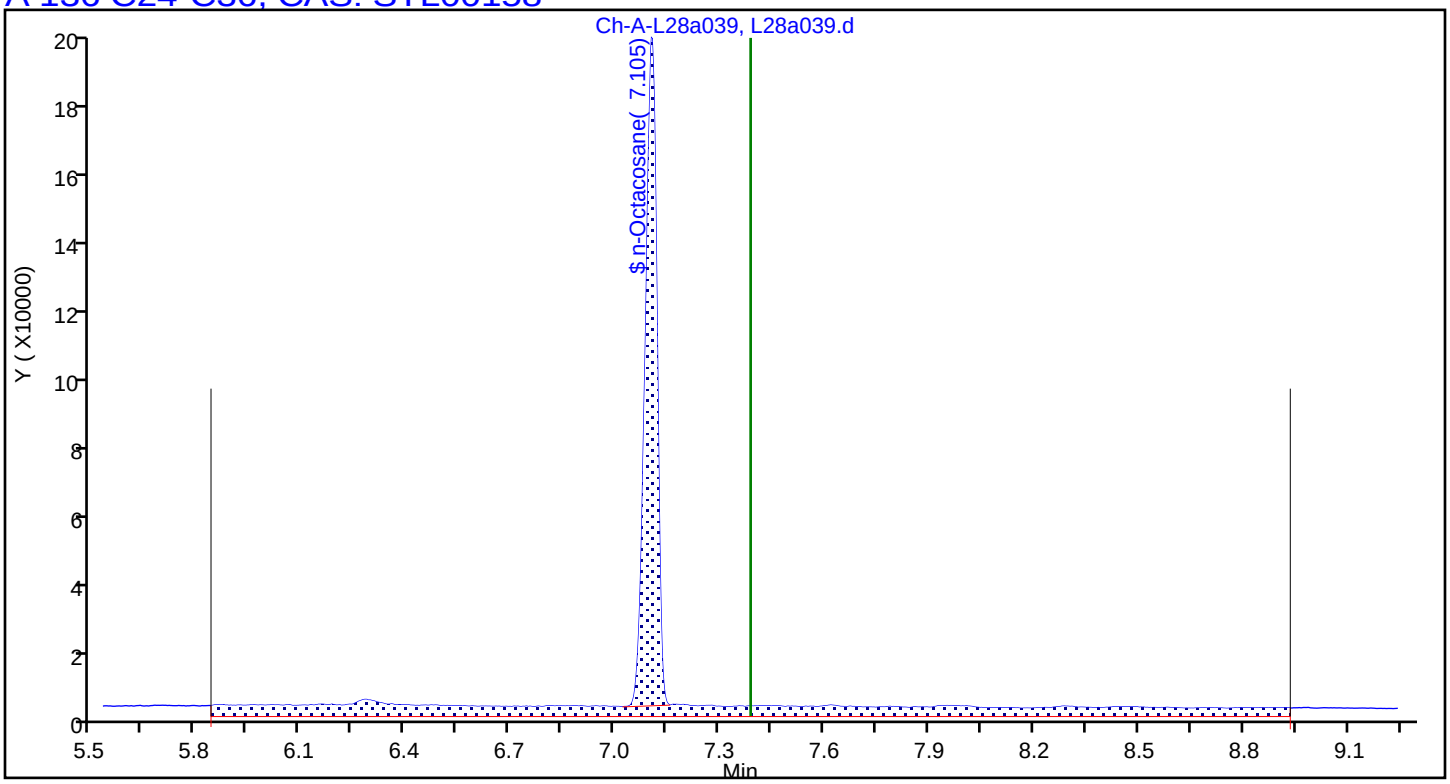


Report Date: 30-Dec-2018 10:46:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a039.d				
Injection Date:	28-Dec-2018 22:23:05	Instrument ID:	GC69A		
Lims ID:	720-90478-F-5-A	Lab Sample ID:	440-90478-5		
Client ID:	DG-AV5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a040.d				
Lims ID:	720-90478-F-6-A				
Client ID:	DG-AT5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 22:43:25	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:46:21	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:46:21		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.601	(1.908-7.293)		811603	245.7	
$ 127 n-Octacosane	7.110	7.112	-0.002	487201	149.5	
A 136 C24-C36	7.389	(5.842-8.937)		753253	228.0	

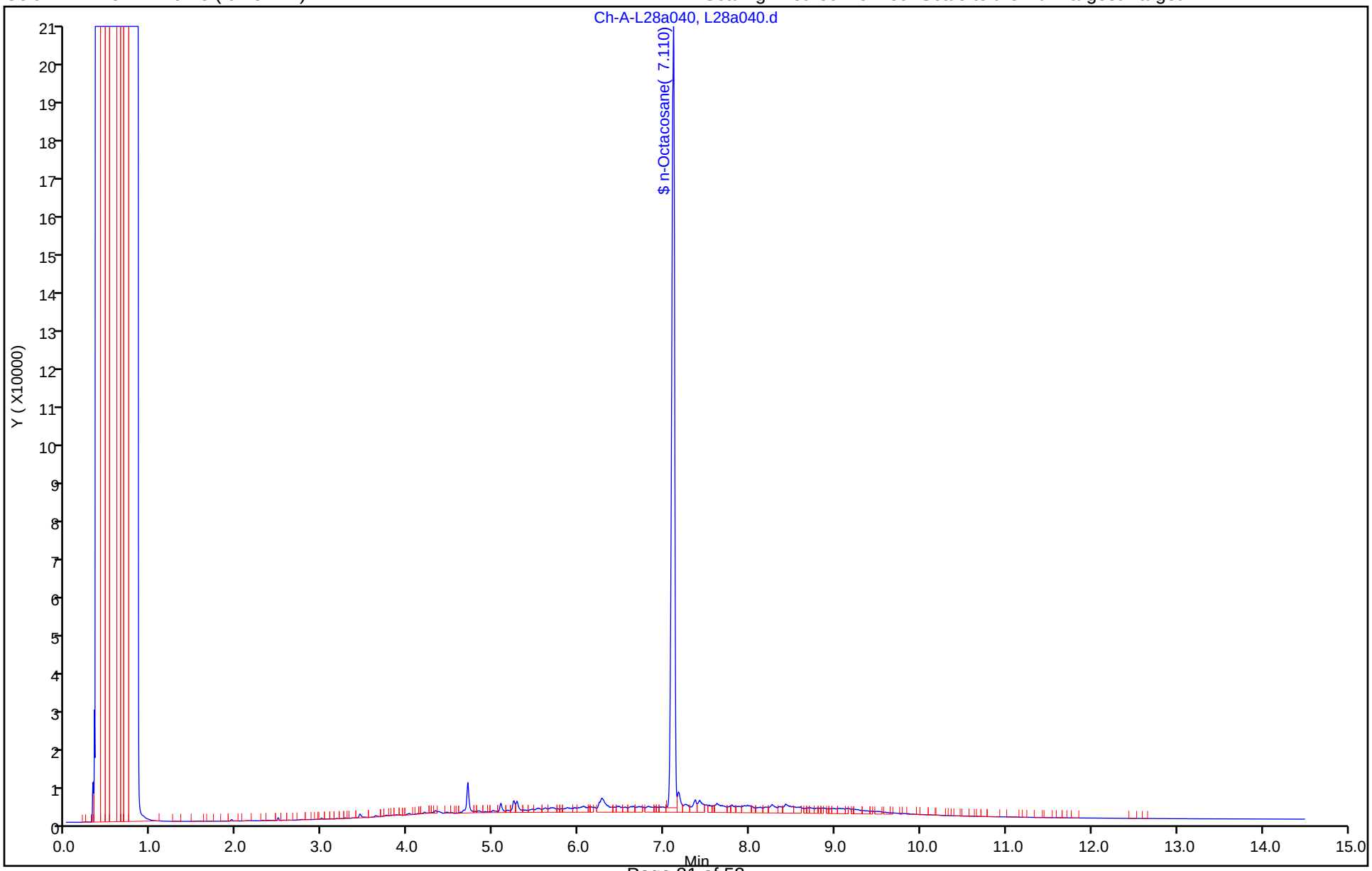
Report Date: 30-Dec-2018 10:46:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a040.d

Injection Date:	28-Dec-2018 22:43:25	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-F-6-A	Lab Sample ID:	440-90478-6	Worklist Smp#:	40
Client ID:	DG-AT5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a040.d				
Lims ID:	720-90478-F-6-A				
Client ID:	DG-AT5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 22:43:25	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:46:21	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:46:21		

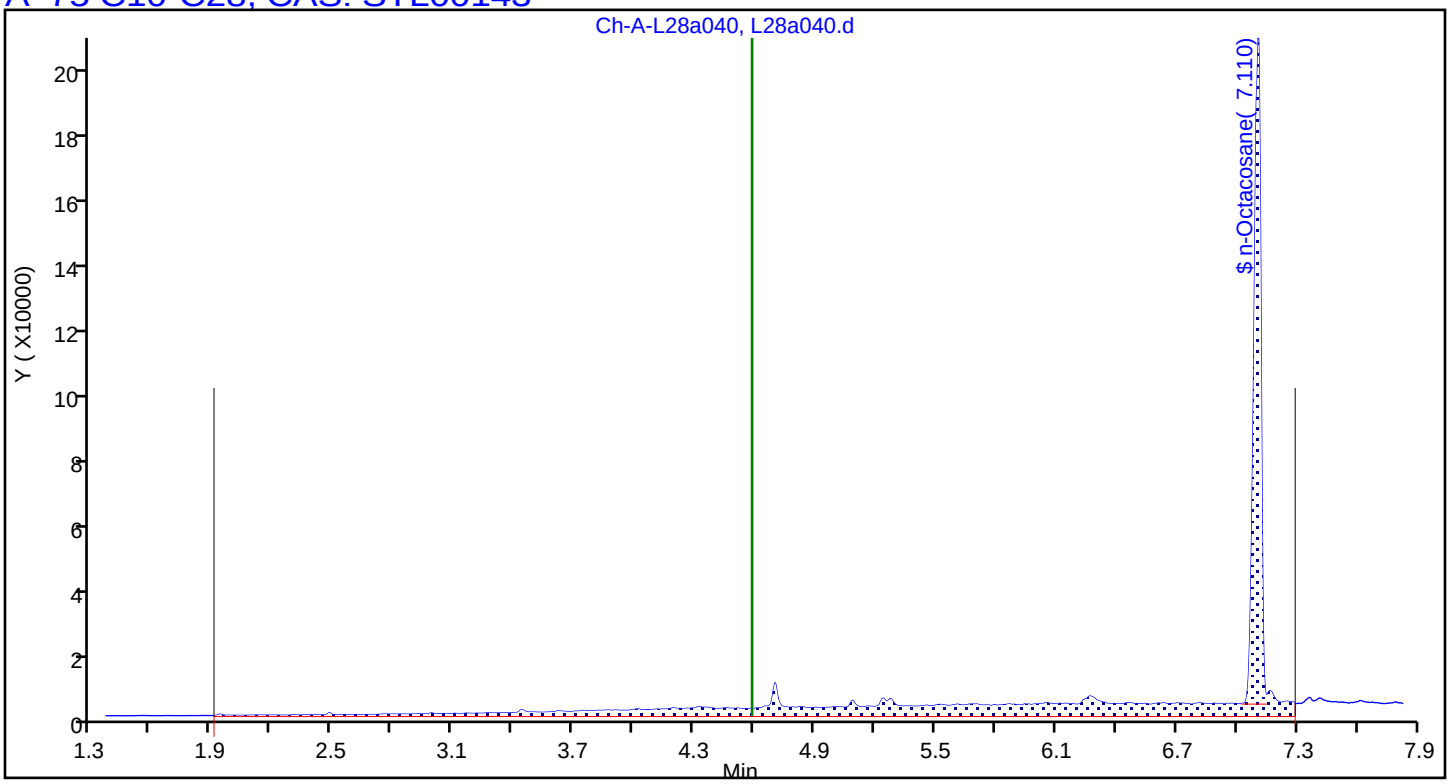
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	149.5	74.77

Report Date: 30-Dec-2018 10:46:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a040.d				
Injection Date:	28-Dec-2018 22:43:25	Instrument ID:	GC69A		
Lims ID:	720-90478-F-6-A	Lab Sample ID:	440-90478-6		
Client ID:	DG-AT5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

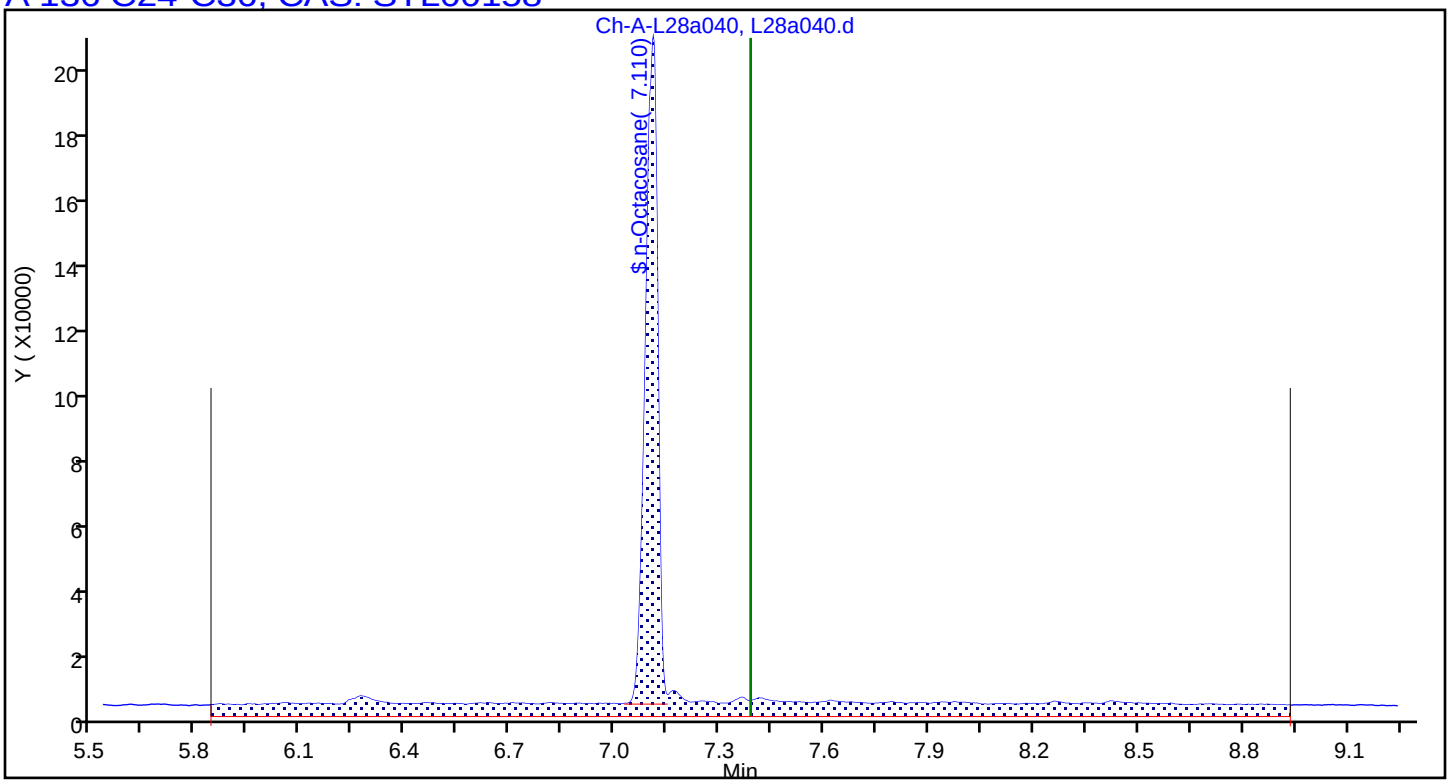


Report Date: 30-Dec-2018 10:46:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a040.d				
Injection Date:	28-Dec-2018 22:43:25	Instrument ID:	GC69A		
Lims ID:	720-90478-F-6-A	Lab Sample ID:	440-90478-6		
Client ID:	DG-AT5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a041.d				
Lims ID:	720-90478-F-9-A				
Client ID:	DG-AR5W				
Sample Type:	Client				
Inject. Date:	30-Dec-2018 23:04:28	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Dec-2018 08:09:51	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0325				
First Level Reviewer: doanm		Date:	31-Dec-2018 08:09:51		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.607	(1.907-7.307)		3384559	1024.4	
$ 127 n-Octacosane	7.117	7.117	0.000	454772	139.6	
A 136 C24-C36	7.428	(5.920-8.937)		770058	233.1	

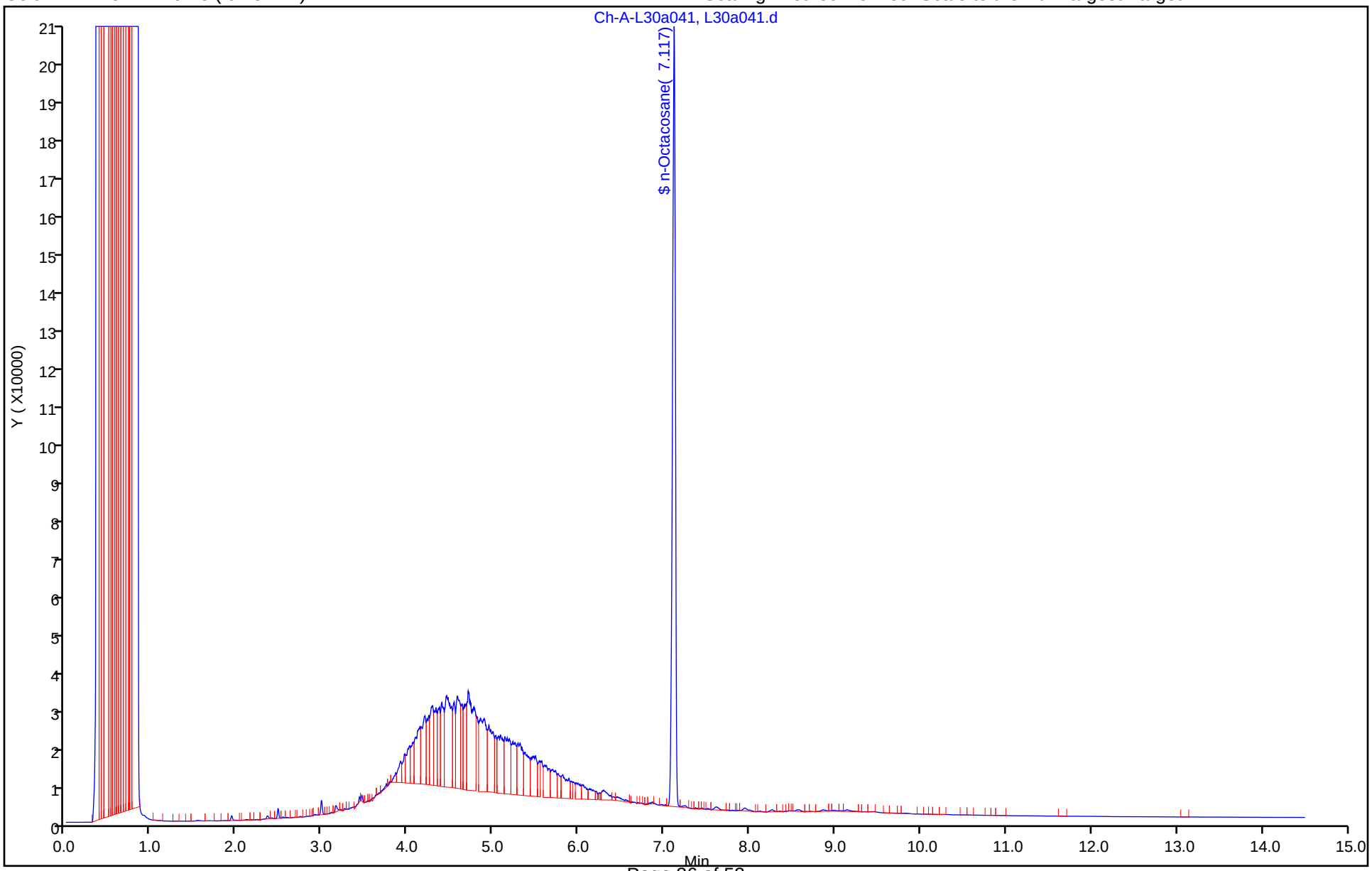
Report Date: 31-Dec-2018 08:09:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a041.d

Injection Date:	30-Dec-2018 23:04:28	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-F-9-A	Lab Sample ID:	440-90478-9	Worklist Smp#:	41
Client ID:	DG-AR5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a041.d				
Lims ID:	720-90478-F-9-A				
Client ID:	DG-AR5W				
Sample Type:	Client				
Inject. Date:	30-Dec-2018 23:04:28	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Dec-2018 08:09:51	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0325				
First Level Reviewer: doanm		Date:	31-Dec-2018 08:09:51		

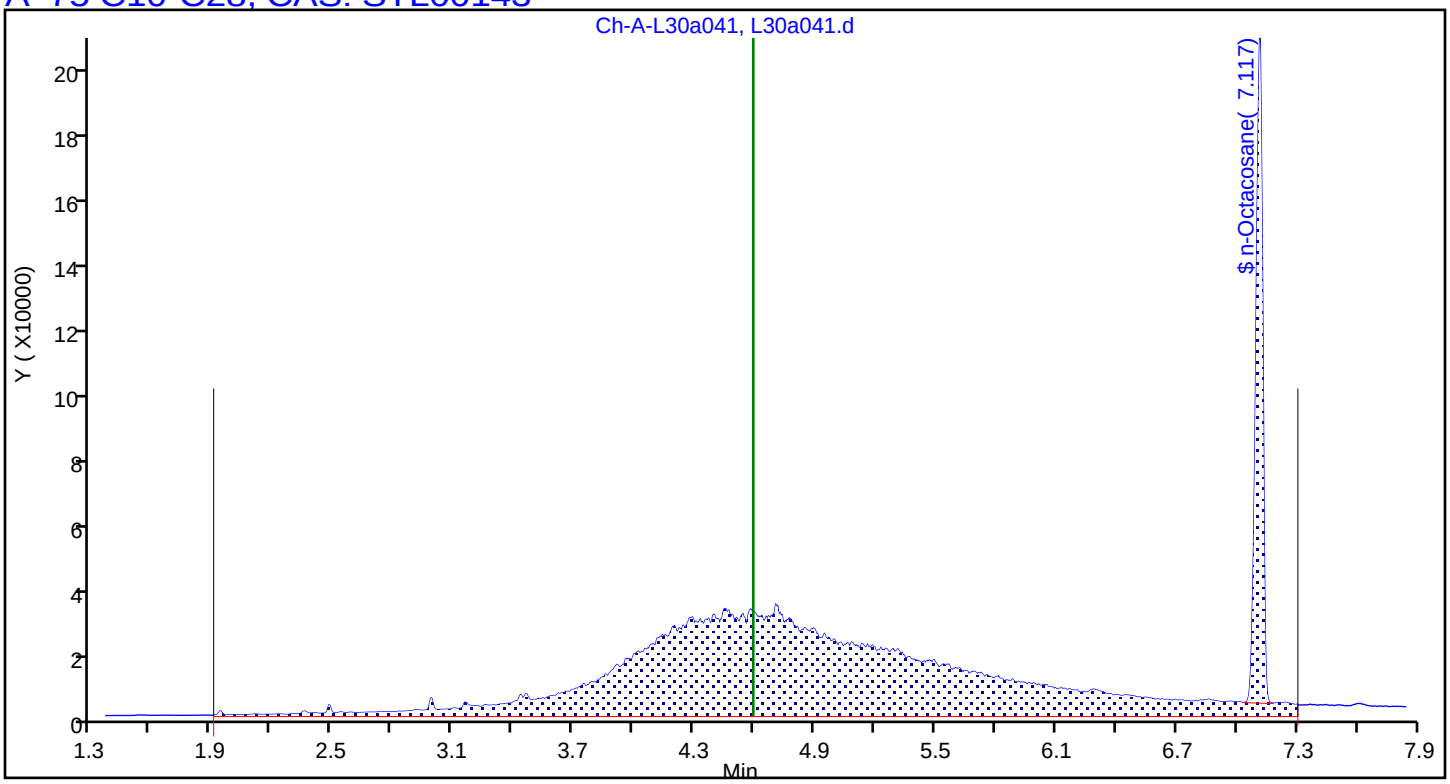
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	139.6	69.79

Report Date: 31-Dec-2018 08:09:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a041.d				
Injection Date:	30-Dec-2018 23:04:28	Instrument ID:	GC69A		
Lims ID:	720-90478-F-9-A	Lab Sample ID:	440-90478-9		
Client ID:	DG-AR5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

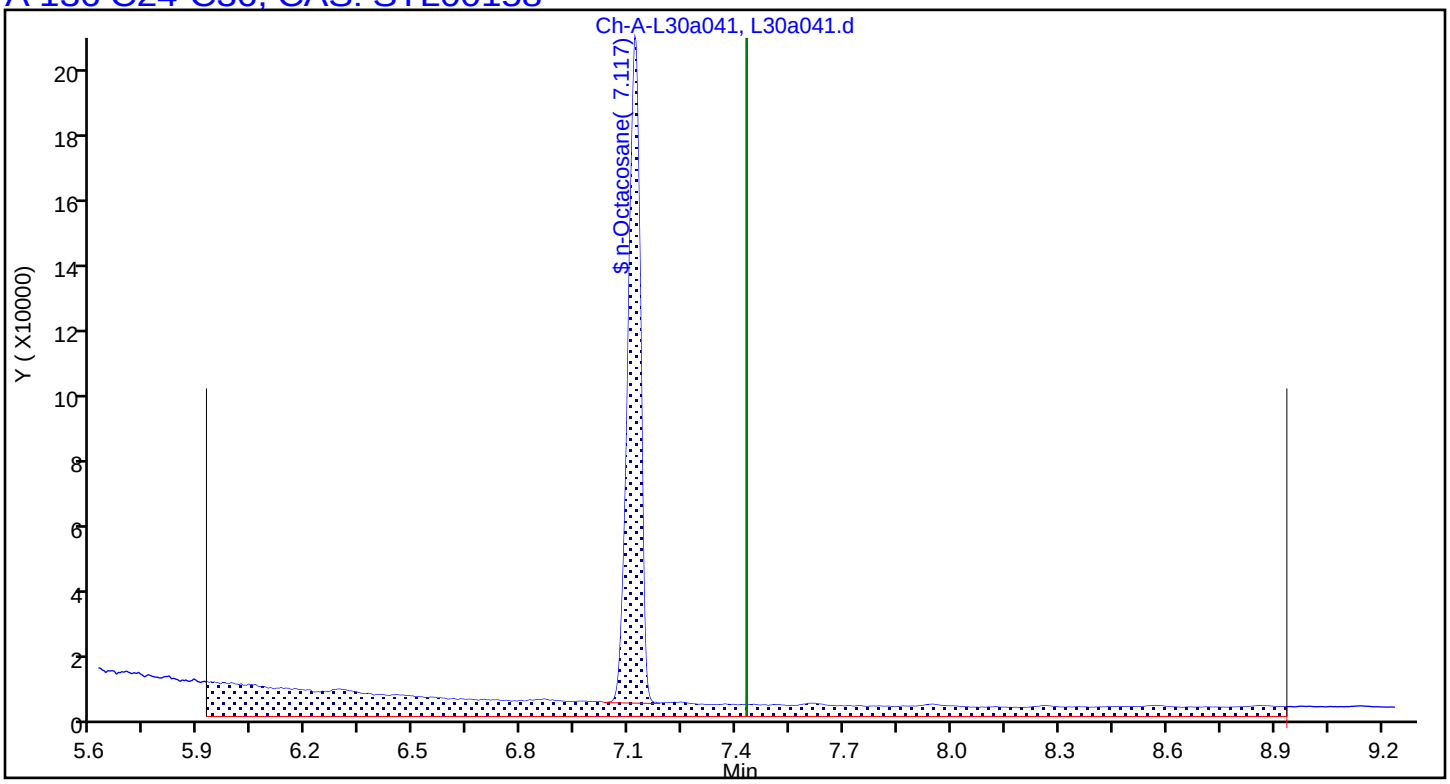


Report Date: 31-Dec-2018 08:09:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a041.d				
Injection Date:	30-Dec-2018 23:04:28	Instrument ID:	GC69A		
Lims ID:	720-90478-F-9-A	Lab Sample ID:	440-90478-9		
Client ID:	DG-AR5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a042.d				
Lims ID:	720-90478-G-10-A				
Client ID:	DG-AP5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 23:24:03	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:47:07	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:47:07		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.604	(1.915-7.293)		1140803	345.3	
$ 127 n-Octacosane	7.103	7.112	-0.009	385637	118.4	
A 136 C24-C36	7.389	(5.842-8.937)		867128	262.5	

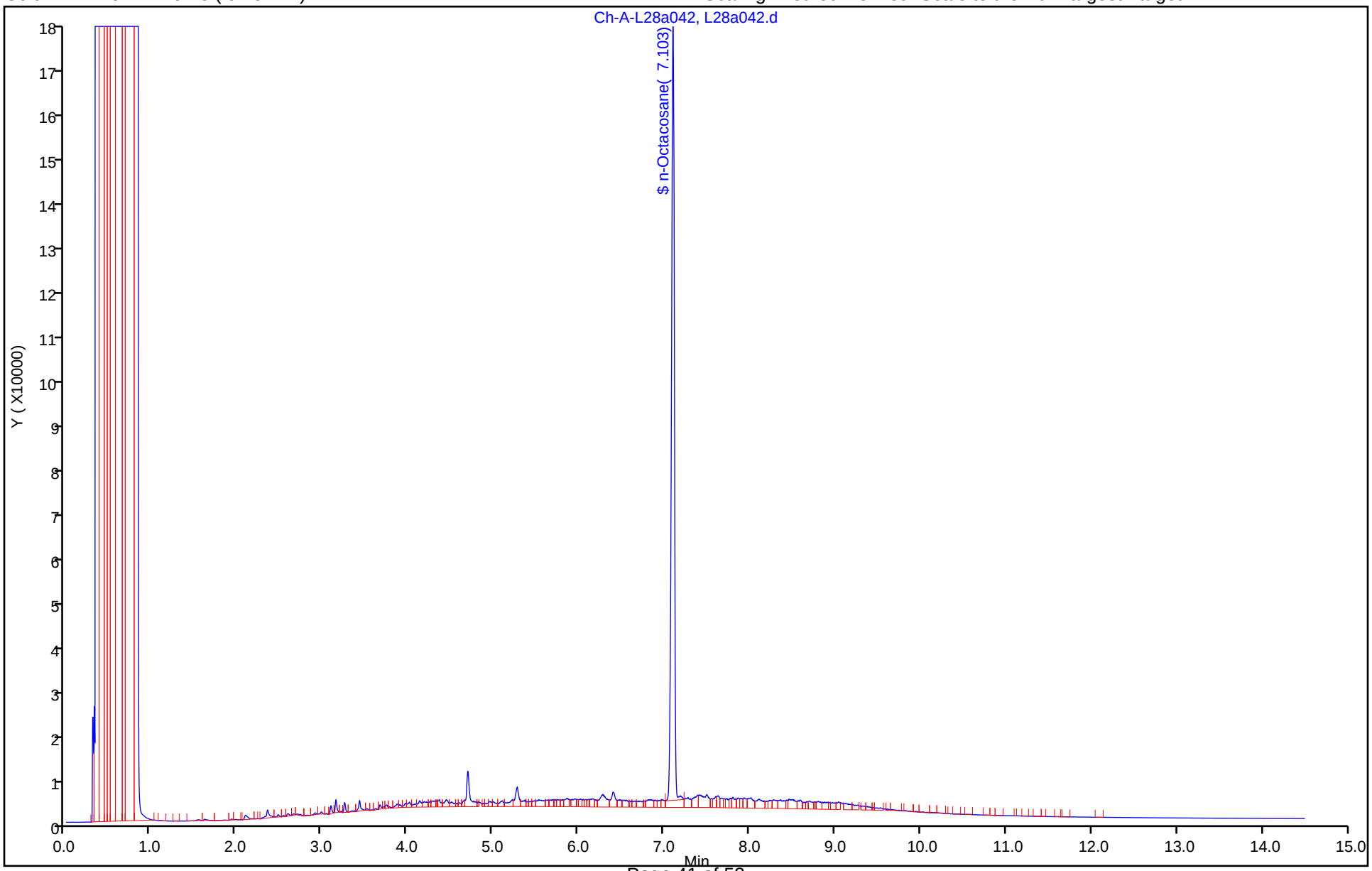
Report Date: 30-Dec-2018 10:47:07 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a042.d

Injection Date:	28-Dec-2018 23:24:03	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-G-10-A	Lab Sample ID:	440-90478-10	Worklist Smp#:	42
Client ID:	DG-AP5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a042.d				
Lims ID:	720-90478-G-10-A				
Client ID:	DG-AP5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 23:24:03	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:47:07	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				

First Level Reviewer: doanm Date: 30-Dec-2018 10:47:07

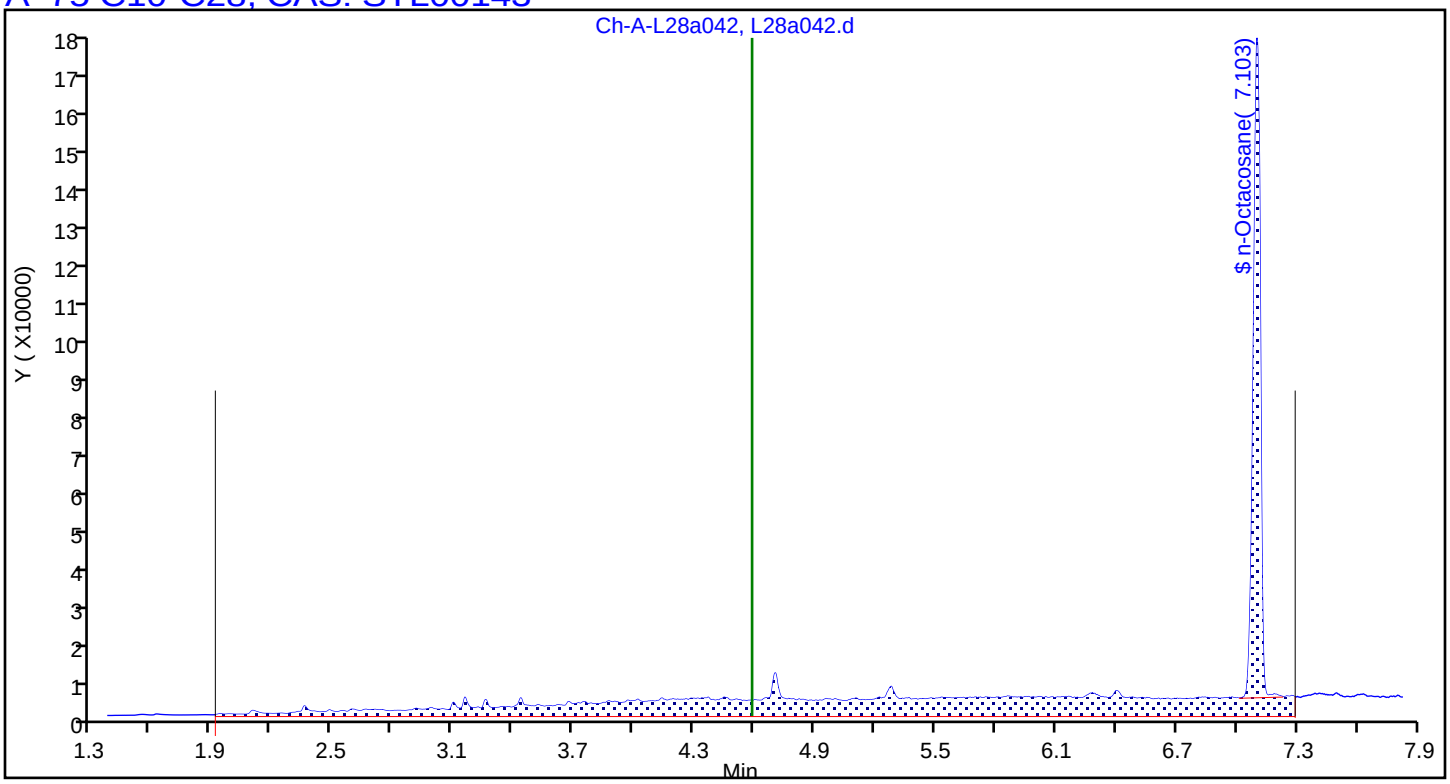
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	118.4	59.18

Report Date: 30-Dec-2018 10:47:07 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a042.d				
Injection Date:	28-Dec-2018 23:24:03	Instrument ID:	GC69A		
Lims ID:	720-90478-G-10-A	Lab Sample ID:	440-90478-10		
Client ID:	DG-AP5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

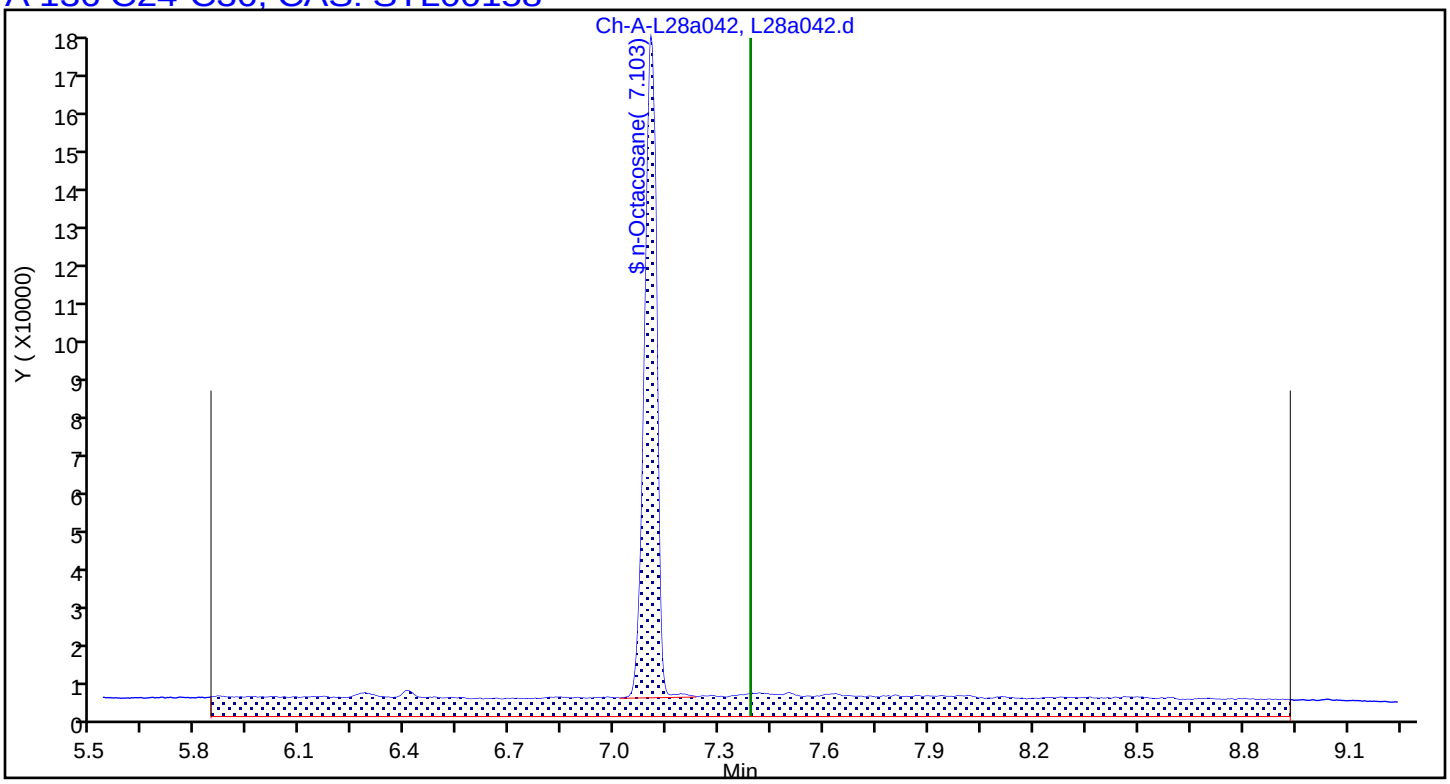


Report Date: 30-Dec-2018 10:47:07 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a042.d				
Injection Date:	28-Dec-2018 23:24:03	Instrument ID:	GC69A		
Lims ID:	720-90478-G-10-A	Lab Sample ID:	440-90478-10		
Client ID:	DG-AP5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a033.d				
Lims ID:	720-90478-E-11-A				
Client ID:	DG-AN5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 20:20:52	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:44:37	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:44:37		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.598	(1.902-7.293)		1013681	306.8	
$ 127 n-Octacosane	7.108	7.112	-0.004	540869	166.0	
A 136 C24-C36	7.389	(5.842-8.937)		416826	126.2	

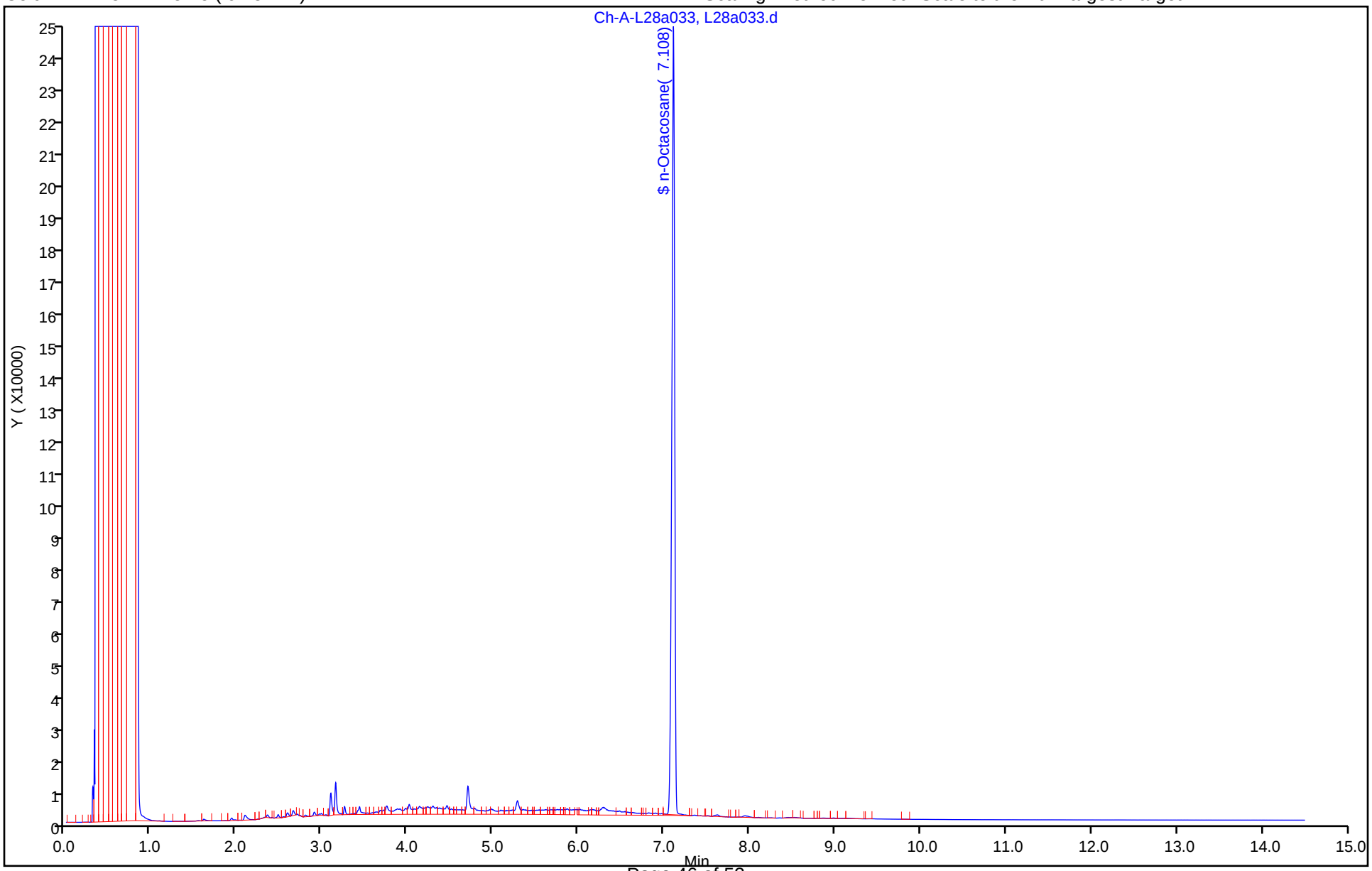
Report Date: 30-Dec-2018 10:44:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a033.d

Injection Date:	28-Dec-2018 20:20:52	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90478-E-11-A	Lab Sample ID:	440-90478-11	Worklist Smp#:	33
Client ID:	DG-AN5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a033.d				
Lims ID:	720-90478-E-11-A				
Client ID:	DG-AN5W				
Sample Type:	Client				
Inject. Date:	28-Dec-2018 20:20:52	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Dec-2018 10:44:37	Calib Date:	21-Dec-2018 12:10:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181221-113403.b\L21a013.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0332				
First Level Reviewer: doanm		Date:	30-Dec-2018 10:44:37		

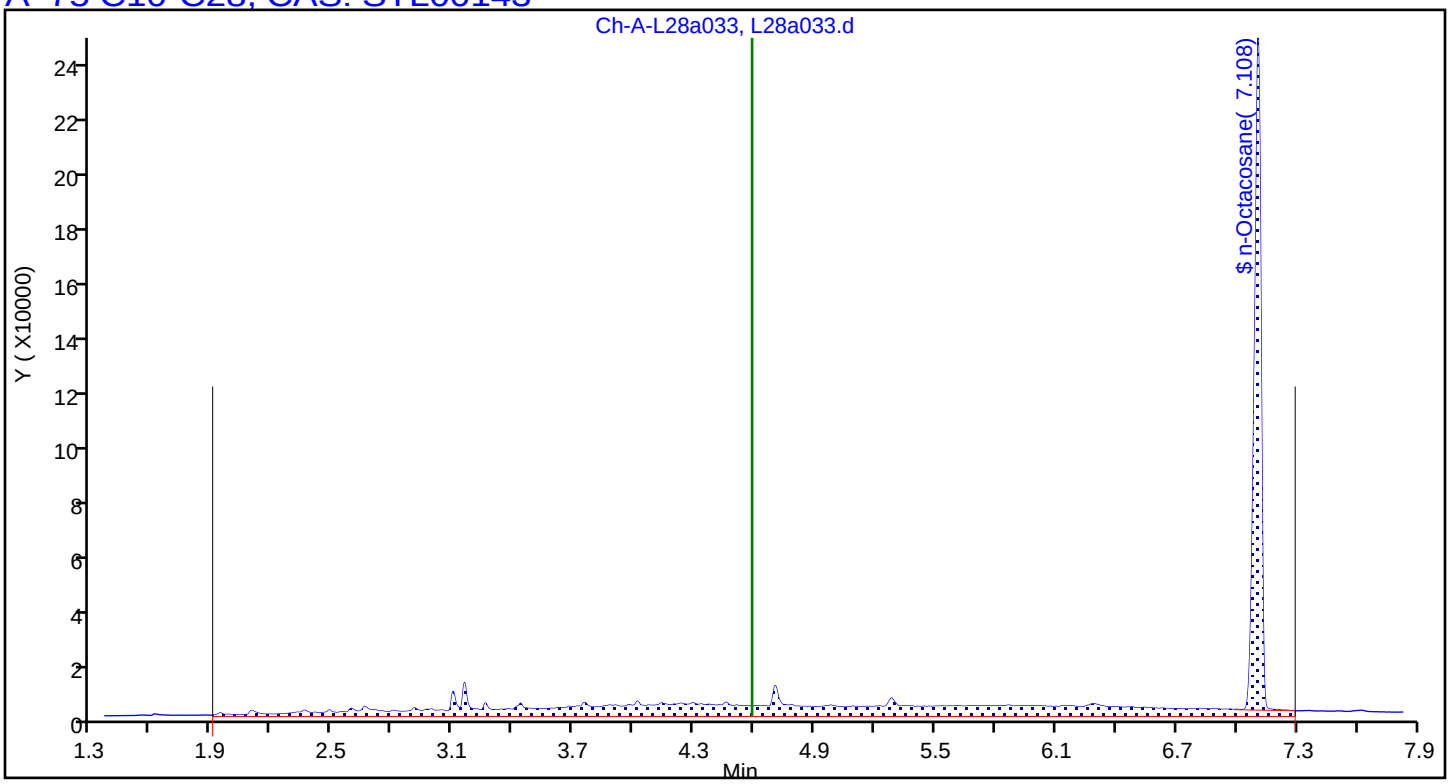
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	166.0	83.01

Report Date: 30-Dec-2018 10:44:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a033.d				
Injection Date:	28-Dec-2018 20:20:52	Instrument ID:	GC69A		
Lims ID:	720-90478-E-11-A	Lab Sample ID:	440-90478-11		
Client ID:	DG-AN5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

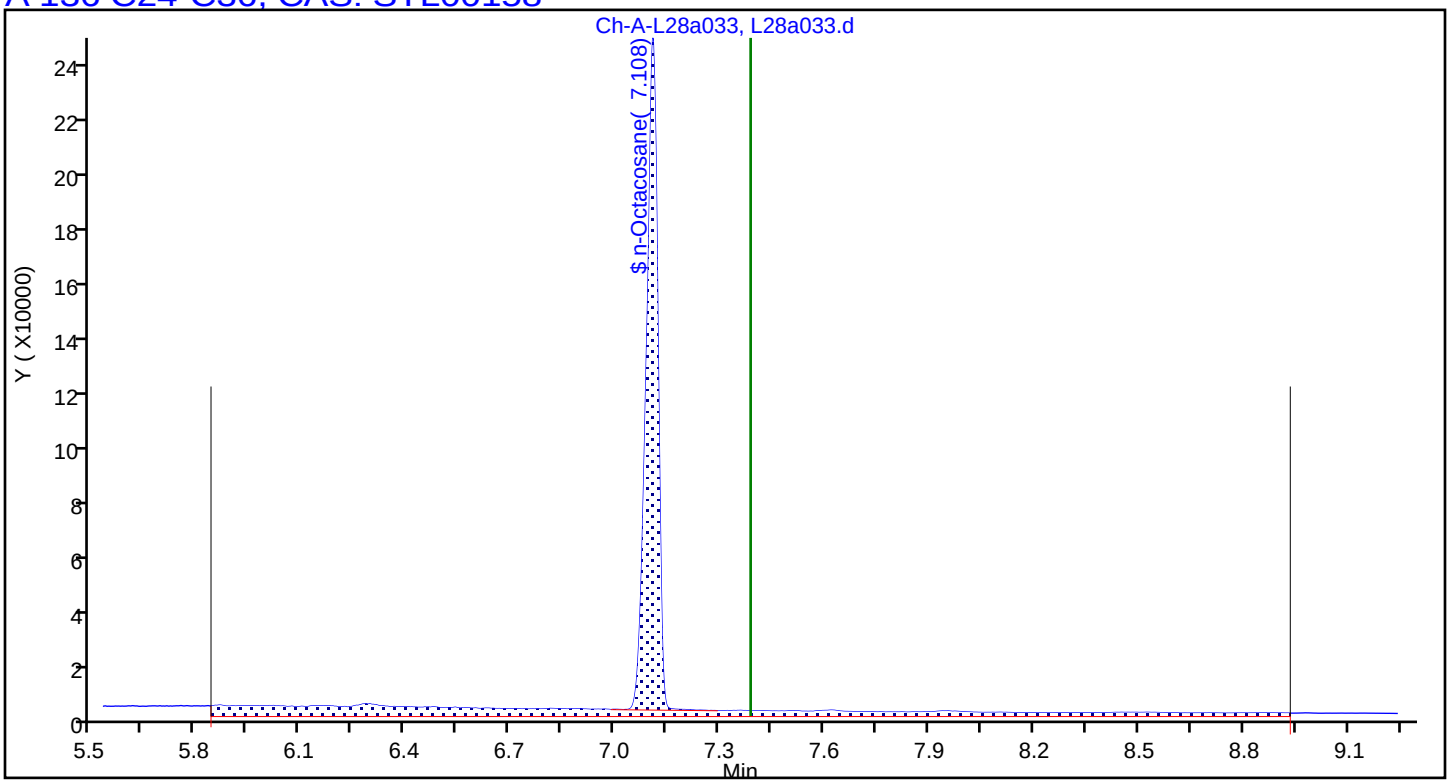


Report Date: 30-Dec-2018 10:44:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20181228-113627.b\L28a033.d				
Injection Date:	28-Dec-2018 20:20:52	Instrument ID:	GC69A		
Lims ID:	720-90478-E-11-A	Lab Sample ID:	440-90478-11		
Client ID:	DG-AN5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600.3002

720-90478

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12-20-18	COC No 18720
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George H. Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90478 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	
1 DG-AS3W	12/20/18	0830	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2 DUP-18	12/20/18	—	G	GW	9	Y		X	X	X	X	X	
3 DG-AU3W	12/20/18	0920	G	GW	9	Y		X	X	X	X	X	
4 DG-AX5W	12/20/18	1015	G	GW	9	Y		X	X	X	X	X	
5 DG-AV5W	12/20/18	1100	G	GW	9	Y		X	X	X	X	X	
6 DG-AT5W	12/20/18	1135	G	GW	9	Y		X	X	X	X	X	
7 TB	12/20/18		G	GW	2			X					
8 FB	12/20/18		G	GW	2			X					
9 DG-AR5W	12/20/18	1330	G	GW	9	Y		X	X	X	X	X	
10 DG-AP5W	12/20/18	1428	G	GW	9	Y		X	X	X	X	X	
11 DG-AN5W	12/20/18	1515	G	GW	9	Y		X	X	X	X	X	

1 2 3 4 5 6 7 8 9 10 11 Page 506 of 552

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
1.4, 1.0, 0.5, 3.5 °C
0.8, 1.3, 2.0, 1.1 °C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No ____	
Relinquished by	Company: Geosyntec	Date/Time: 12/20/18 1400	Received by	Company: TAPLS	Date/Time: 12/20/18 1600
Relinquished by	Company: TAPLS	Date/Time: 12/20/18 1910	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TAPLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018
12/20/18

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0183	COC No: 720-40611.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90478-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AS3W (720-90478-1)	12/20/18	08:30 Pacific		Water			X	X	X	X	7	check for 2 phases
DUP-18 (720-90478-2)	12/20/18	Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AU3W (720-90478-3)	12/20/18	09:20 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AX5W (720-90478-4)	12/20/18	10:15 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AV5W (720-90478-5)	12/20/18	11.00 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AT5W (720-90478-6)	12/20/18	11:35 Pacific		Water			X	X	X	X	7	check for 2 phases
TB (720-90478-7)	12/20/18	Pacific		Water			X	X			2	check for 2 phases
FB (720-90478-8)	12/20/18	Pacific		Water			X	X			2	check for 2 phases
DG-AR5W (720-90478-9)	12/20/18	13.30 Pacific		Water			X	X	X	X	7	check for 2 phases

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Doreen Mullen	12-21-18 1600	Frees			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			Olga Cimelas	12/22/18 1100	TALCV

Custody Seals Intact: ✓ Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.1/4.1 IR89

2.1/2.1 4.3/4.3 2.9/2.9

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40611 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90478-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AP5W (720-90478-10)	12/20/18	14:28 Pacific		Water			X	X	X	X	7	check for 2 phases
DG-AN5W (720-90478-11)	12/20/18	15:15 Pacific		Water			X	X	X	X	7	check for 2 phases

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Karen Mullen	Date/Time: 12-21-18 1600	Company: Fed Ex	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-90479-1

SDG Number: Brisbane OU2

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/24/2019 6:06 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/24/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90479-1

Comments
No additional comments.

Receipt
The samples were received on 12/20/2018 7:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.5º C, 0.8º C, 1.0º C, 1.1º C, 1.3º C, 1.4º C, 2.0º C and 3.5º C.

GC/MS VOA

Method 8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following samples were above control limits: DG-AV5S-7.5-8 (720-90479-10), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22). Re-analyses were performed with concurring results. The re-analyses have been reported.

Method 8260B/CA_LUFTMS: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples were below control limits: DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22). The sample(s) were re-analyzed with concurring results, and the re-analyses have been reported.

Method 8260B/CA_LUFTMS: The following samples were analyzed outside of analytical holding time due to method prep was logged in under 14 day hold time instead of 7 day hold time for terracores.
: DG-AV5S-7.5-8 (720-90479-10), DUP-35 (720-90479-11), DG-AT5S-0.5-1 (720-90479-12), DG-AT5S-3.5-4 (720-90479-13), DUP-18 (720-90479-14), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22).

Method 8260B/CA_LUFTMS: The following samples were analyzed outside of analytical holding time due to method prep was logged in under 14 day hold time instead of 7 day hold time for terracores.
: DG-AV5S-3.5-4 (720-90479-9), DG-AP5S-3.5-4 (720-90479-18), DG-AN5S-0.5-1 (720-90479-19) and DG-AN5S-3.5-4 (720-90479-20).

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519479 recovered above the upper control limit for 1,1-Dichloroethane and trans-1,2-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-519756 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a * symbol.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-519967 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TB-122018 (720-90479-23) and (CCVIS 440-519967/2).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with 519482 were outside control limits: (440-228439-F-1 MS) and (440-228439-F-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260B: The following samples were analyzed outside of analytical holding time due to method prep was logged in under 14 day hold time instead of 7 day hold time for terracores.
: DG-AV5S-7.5-8 (720-90479-10), DUP-35 (720-90479-11), DG-AT5S-0.5-1 (720-90479-12), DG-AT5S-3.5-4 (720-90479-13), DUP-18 (720-90479-14), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22).

Method 8260B: The following samples were analyzed outside of analytical holding time due to method prep was logged in under 14 day hold time instead of 7 day hold time for terracores.
: DG-AP5S-3.5-4 (720-90479-18), DG-AN5S-0.5-1 (720-90479-19) and DG-AN5S-3.5-4 (720-90479-20).

Method 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 (46.18%=50-200) response for the following sample was outside control limits: DG-S9S-7 (720-90479-21). The sample(s) was re-extracted and/or re-analyzed with concurring results. Affected sample results for these compounds have been qualified with a * symbol.

Method 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 (32.60%=50-200) response for the following sample was outside control limits: DG-S9S-4.5-5 (720-90479-22). The sample(s) was re-extracted and/or re-analyzed with concurring results. Affected sample results for these compounds have been qualified with a * symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The method blank for preparation batch 720-257611 and analytical batch 720-257766 contained

Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-257660 and analytical batch 720-257766 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AS3S-3.5-4 (720-90479-2), DG-AS3S-8-8.5 (720-90479-3), DG-AU3S-0.5-1 (720-90479-4), DG-AV5S-0.5-1 (720-90479-8), DUP-35 (720-90479-11), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Internal standard responses were outside of acceptance limits for the following samples: (720-90479-E-8-D MS) and (720-90479-E-8-E MSD). The sample(s) shows evidence of matrix interference. Affected results are qualified with a * symbol.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257791 and analytical batch 720-257888 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The method blank for preparation batch 720-257791 and analytical batch 720-257858 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-257791 and analytical batch 720-257888: Phenanthrene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported. Phenanthrene results for affected samples have been qualified with a * symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8081A: The continuing calibration verification (CCV) associated with batch 720-257557 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AS3S-0.5-1 (720-90479-1), DG-AS3S-3.5-4 (720-90479-2), DG-AS3S-8-8.5 (720-90479-3) and (MB 720-257432/1-A).

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257432 and analytical batch 720-257700 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257433 and analytical batch 720-257768 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: Surrogate recovery for the following sample was outside control limits: DUP-35 (720-90479-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The following sample has clear evidence of the presence of chlordane based on the presence of cis and trans chlordane; however, the chlordane peaks in the sample do not closely match the laboratory's Technical Chlordane standard: DUP-35 (720-90479-11). As a result, there is increased quantitative uncertainty associated with this result.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE & 4,4'-DDT for the following sample: DG-AV5S-0.5-1 (720-90479-8). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following sample: DUP-35 (720-90479-11). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following sample: DG-AU3S-0.5-1 (720-90479-4). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DUP-35 (720-90479-11), DG-S9S-7 (720-90479-21) and DG-S9S-4.5-5 (720-90479-22). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: Surrogate DCB Decachlorobiphenyl recovery for the following sample was outside control limits: DUP-35 (720-90479-11). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed. Secondary surrogate (TCMX) recovery was within control limits, indicating that the extraction process was in control.

Method(s) 8082: Surrogate recovery for the following samples was outside control limits: DUP-35 (720-90479-11). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-257874 was outside of control limits. Arsenic-236%, Barium-133%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-257874 was outside control limits for Arsenic-17%, Barium-19%, Cobalt-37%, Chromium-21%, Nickle-21%, Lead-20%, Thallium-18%, Vanadium-22%: (720-90479-E-9-I SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257521 and analytical batch 720-257874 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-257874 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected samples have been qualified with a ^ symbol.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AS3S-0.5-1 (720-90479-1), DG-AS3S-3.5-4 (720-90479-2), DG-AS3S-8-8.5 (720-90479-3), DG-AU3S-0.5-1 (720-90479-4), DG-AU3S-3.5-4 (720-90479-5), DG-AX5S-0.5-1 (720-90479-6), DG-AX5S-3.5-4 (720-90479-7), DG-AV5S-0.5-1 (720-90479-8), DG-AV5S-3.5-4 (720-90479-9), DG-AV5S-3.5-4 (720-90479-9[MS]), DG-AV5S-3.5-4 (720-90479-9[MSD]), DG-AV5S-7.5-8 (720-90479-10), DUP-35 (720-90479-11), DG-AT5S-0.5-1 (720-90479-12), DG-AT5S-3.5-4 (720-90479-13), DUP-18 (720-90479-14), DG-AR5S-0.5-1 (720-90479-15), (720-90479-E-9-I PDS) and (720-90479-E-9-I SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-257547 and analytical batch 720-258031 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-258031 was outside of control limits. Cobalt-130%, Chromium-141%, Copper-151%, Molybdenum-128%, Nickel-131%, Lead-149%, Antimony-129%, Selenium-128%, Thallium-130%, Vanadium-140%, Zinc-193%, Silver-137%, Arsenic-129%, Barium-198%, Beryllium-135% and Cadmium-128%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258031 was outside control limits for Barium-26%, Cobalt-46%, Chromium-21%, Nickel-22%, Lead-22%, Vanadium-21% and Zinc-20%: (720-90481-A-17-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-S9S-4.5-5 (720-90479-22), (720-90481-A-17-C), (720-90481-A-17-A MS), (720-90481-A-17-B MSD), (720-90481-A-17-C PDS) and (720-90481-A-17-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-257538 and analytical batch 720-258036 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for the following analytes associated with batch 720-258036 was outside of control limits. Arsenic-127%, Barium-141%, Beryllium-129%, Chromium-132%, Copper-163%, Molybdenum-128%, Lead-143%, Vanadium-128% and Zinc-154%

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258036 was outside control limits for Cobalt-19%, Chromium-22%, Copper-13%, Nickel-22%, Lead-17%, Vanadium-12% and Zinc-15%: (720-90480-A-14-I SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes : DG-AR5S-3.5-4 (720-90479-16), DG-AP5S-0.5-1 (720-90479-17), DG-AP5S-3.5-4 (720-90479-18), DG-AN5S-0.5-1 (720-90479-19), DG-AN5S-3.5-4 (720-90479-20) and (720-90480-A-14-I). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-257538 and analytical batch 720-258036 contained Barium, Chromium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258071 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-257547 and analytical batch 720-258071 contained Barium, Cadmium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following sample was diluted due to the abundance of non-target analytes: DG-AN5S-3.5-4 (720-90479-20). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_023.d
Lims ID: 720-90479-F-1-A
Client ID: DG-AS3S-0.5-1
Sample Type: Client
Inject. Date: 27-Dec-2018 21:11:46 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0055853-023
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:48:17 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 07:48:17

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.501	2.567	-0.066	1244	NC	
	23 n-Decane		3.809			ND	
A	1 C9-C13	4.550	(2.567-6.532)		32015	NC	
A	21 Stoddard Solvent	4.550	(2.567-6.532)		32015	NC	
A	57 C10-C12	4.768	(3.809-5.727)		21142	2.16	
	24 Dodecane		5.727			ND	
A	3 C9 - C17	5.913	(2.567-9.259)		83163	6.86	
A	47 C9 - C18	6.209	(2.567-9.851)		101882	9.46	
A	60 C10-C16	6.215	(3.809-8.622)		64320	5.84	
A	15 Kerosene	6.479	(2.567-10.391)		126871	11.8	
A	25 C9-C19	6.479	(2.567-10.391)		126871	10.4	
	26 C13	6.508	6.532	-0.024	5477	NC	
$	27 n-Decanoic Acid (Surr)		7.170			ND	U
A	59 C12-C16	7.175	(5.727-8.622)		47014	4.80	
A	62 C10-C20	7.368	(3.809-10.928)		316887	32.3	
A	28 C9-C24	7.713	(2.567-12.859)		826369	84.3	
A	29 C9-C25	7.932	(2.567-13.296)		1183638	120.8	
A	54 C10-C23	8.107	(3.809-12.405)		687645	70.2	
A	4 C10-C24	8.334	(3.809-12.859)		822649	83.9	
A	16 C10-C25	8.552	(3.809-13.296)		1179918	120.4	
	45 Hexadecane	8.564	8.622	-0.058	6230	NC	
A	14 C10-C26	8.763	(3.809-13.717)		1358278	138.6	
A	67 C12-C22	8.830	(5.727-11.933)		670339	68.4	
A	12 Unknown Hydrocarbons	9.162	(3.809-14.515)		1746987	NC	
A	32 C10-C28	9.162	(3.809-14.515)		1746987	178.2	
A	5 Diesel	9.162	(3.809-14.515)		1746987	178.2	
A	30 C13-C22	9.232	(6.532-11.933)		664827	67.8	
	44 Heptadecane	9.272	9.259	0.013	12131	NC	
A	31 C12-C24	9.293	(5.727-12.859)		805343	82.2	
	49 n-Octadecane	9.866	9.851	0.015	24989	NC	
A	9 Crude Oil Range Organics (	9.906	(2.567-17.246)		4132182	NC	
A	52 Mineral oil	9.906	(2.567-17.246)		4132182	368.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.906	(2.567-17.246)		3616958	NC	
33 C19	10.394	10.391	0.003	45394	NC	
A 64 C13-C28	10.523	(6.532-14.515)		1724169	175.9	
A 17 C10-C36	10.527	(3.809-17.246)		3613238	368.7	
A 13 C9-C40	10.688	(2.567-18.808)		5222327	622.1	
A 68 Crude Oil Range Organics (	10.688	(2.567-18.808)		5222327	NC	
A 58 C16-C24	10.741	(8.622-12.859)		764559	78.0	
61 icosane		10.928			ND	
A 6 C10-C40	11.308	(3.809-18.808)		5216974	621.9	
$ 34 p-Terphenyl	11.913	11.919	-0.006	336144	28.2	M
35 n-Docosane		11.933			ND	
A 18 C12-C40	12.268	(5.727-18.808)		5191247	619.1	
36 Tricosane	12.410	12.405	0.005	135004	NC	
A 66 C13-C40	12.670	(6.532-18.808)		5178656	617.6	
37 n-Tetracosane	12.859	12.859	0.000	214053	NC	
A 2 C16-C36 ORO	12.934	(8.622-17.246)		4016819	529.3	
38 C25	13.296	13.296	0.000	143216	NC	
A 19 C16-C40	13.715	(8.622-18.808)		5106964	609.1	
46 n-Hexacosane	13.711	13.717	-0.006	178360	NC	
A 20 C19-C36	13.818	(10.391-17.246)		3492603	404.8	
A 55 C23-C32	14.184	(12.405-15.963)		2123889	446.6	
39 n-Octacosane	14.478	14.515	-0.037	186577	NC	
65 C29	14.900	14.895	0.005	308530	NC	
A 7 Motor Oil	15.052	(12.859-17.246)		2739264	449.6	
A 40 C24-C36	15.052	(12.859-17.246)		2739264	449.6	
A 50 C25-C36	15.271	(13.296-17.246)		2559112	442.3	
A 10 C22-C40	15.371	(11.933-18.808)		3804688	455.1	
A 41 C23-C40	15.607	(12.405-18.808)		3918752	477.8	
A 8 C24-C40	15.834	(12.859-18.808)		3743531	470.6	
56 Dotriacontane	15.959	15.963	-0.004	142900	NC	
A 51 C28-C40	16.662	(14.515-18.808)		2970925	466.3	
A 63 C29-C40	16.852	(14.895-18.808)		2738341	473.6	
42 n-Hexatriacontane	17.277	17.246	0.031	307197	NC	
43 C40	18.829	18.808	0.021	1466770	NC	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

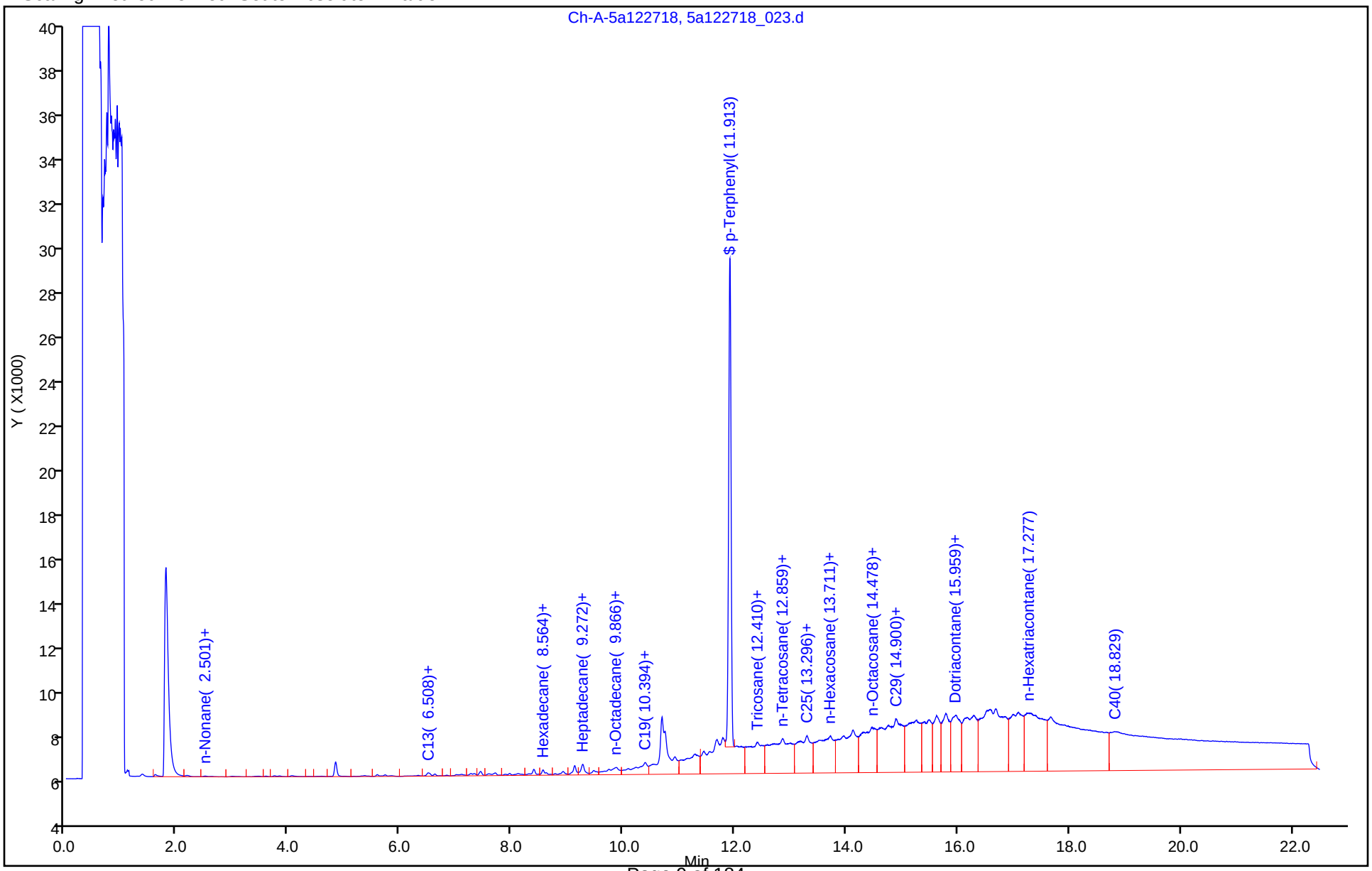
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Report Date: 28-Dec-2018 07:48:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_023.d				
Injection Date:	27-Dec-2018 21:11:46	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-1-A	Lab Sample ID:	720-90479-1	Worklist Smp#:	23
Client ID:	DG-AS3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_023.d				
Lims ID:	720-90479-F-1-A				
Client ID:	DG-AS3S-0.5-1				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 21:11:46	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0055853-023				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 07:48:17	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0326				

First Level Reviewer: hayashid Date: 28-Dec-2018 07:48:17

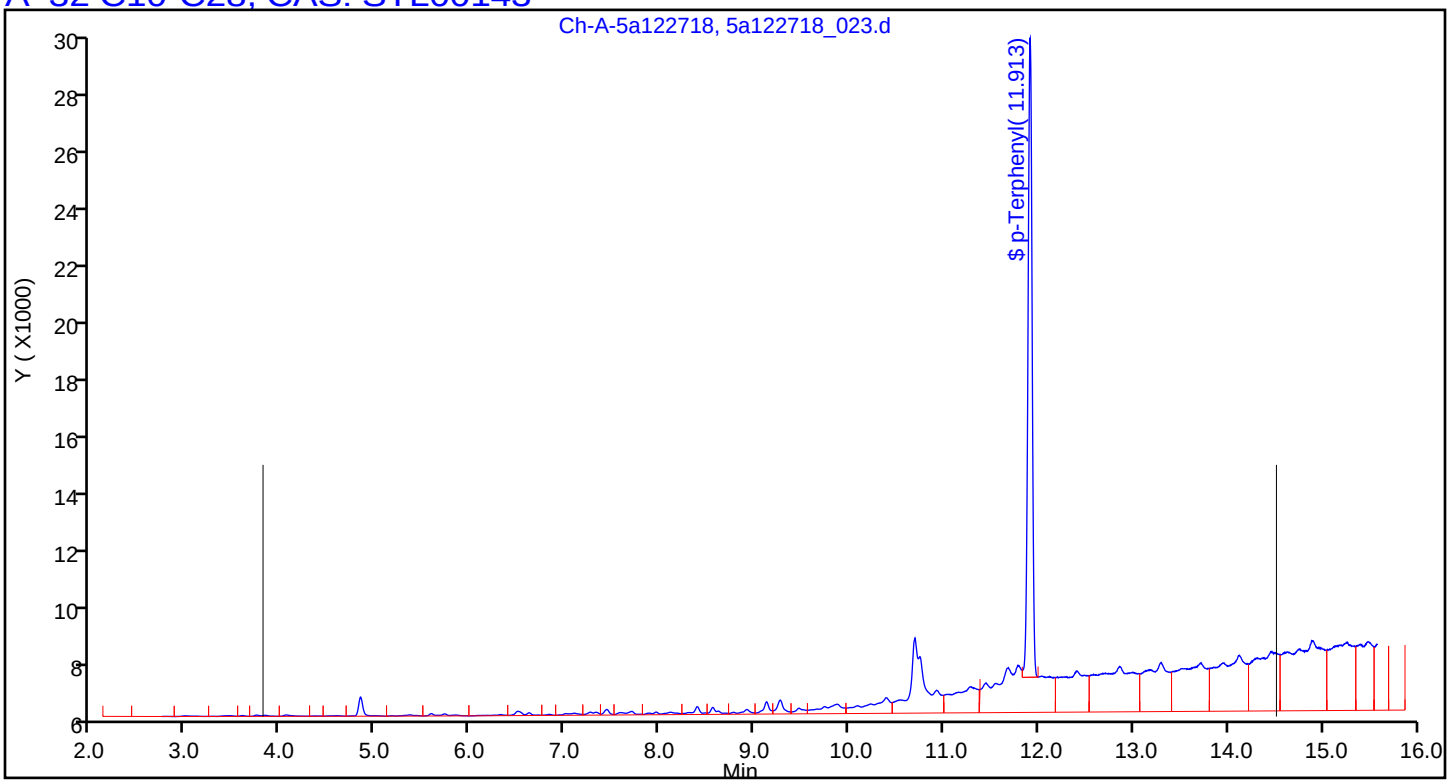
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	28.2	112.75

Report Date: 28-Dec-2018 07:48:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_023.d				
Injection Date:	27-Dec-2018 21:11:46	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-1-A	Lab Sample ID:	720-90479-1		
Client ID:	DG-AS3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

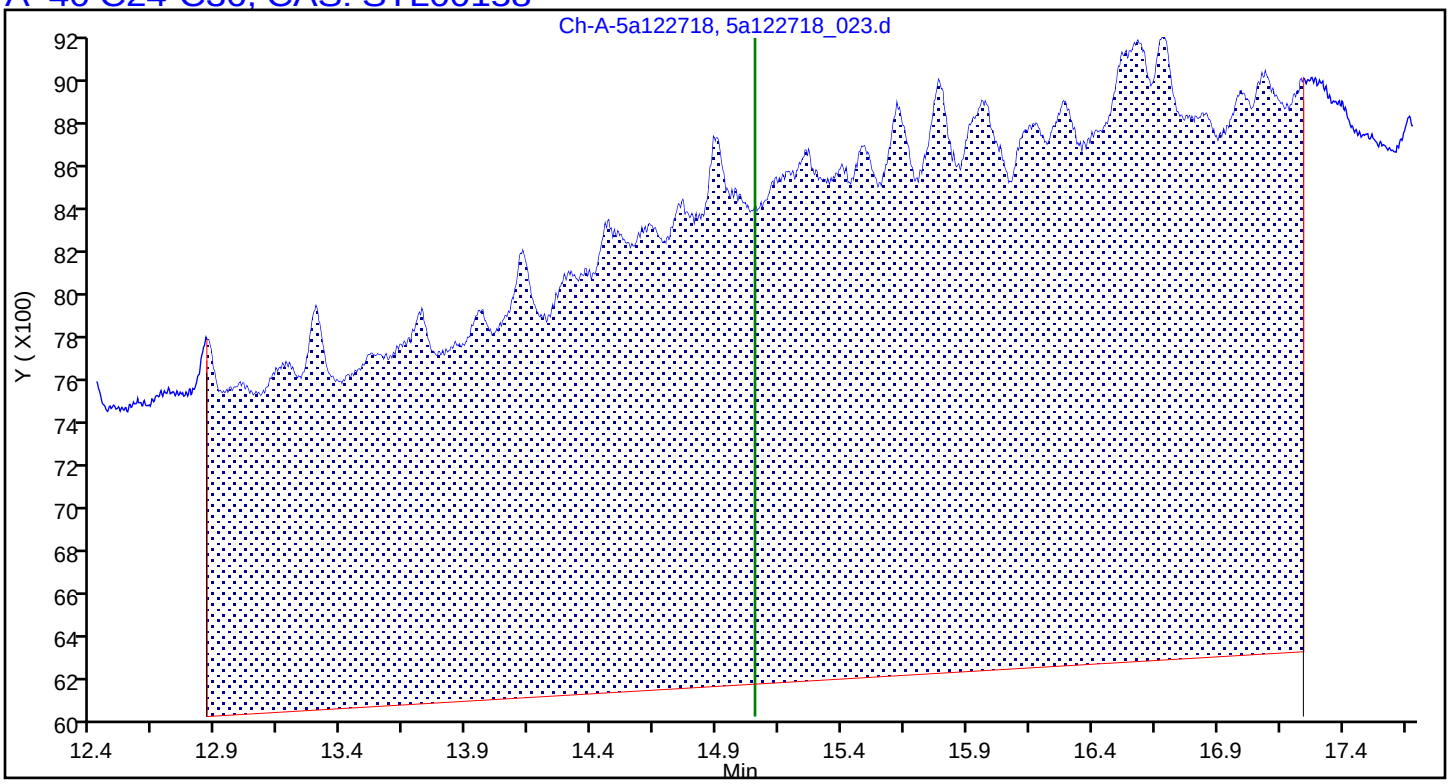


Report Date: 28-Dec-2018 07:48:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_023.d				
Injection Date:	27-Dec-2018 21:11:46	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-1-A	Lab Sample ID:	720-90479-1		
Client ID:	DG-AS3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

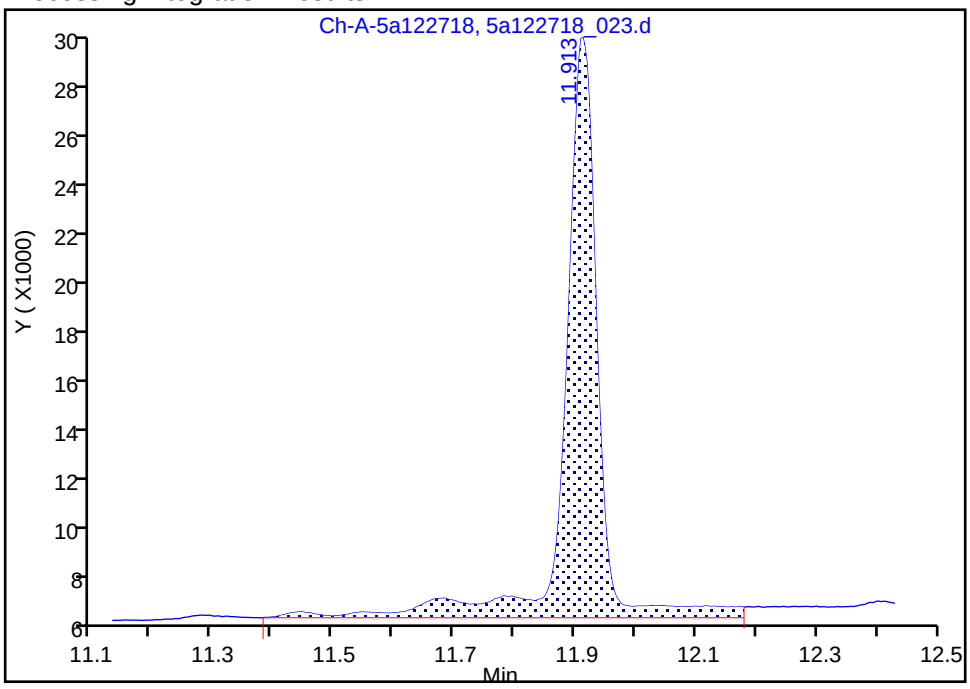
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Injection Date:	27-Dec-2018 21:11:46	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-1-A	Lab Sample ID:	720-90479-1		
Client ID:	DG-AS3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

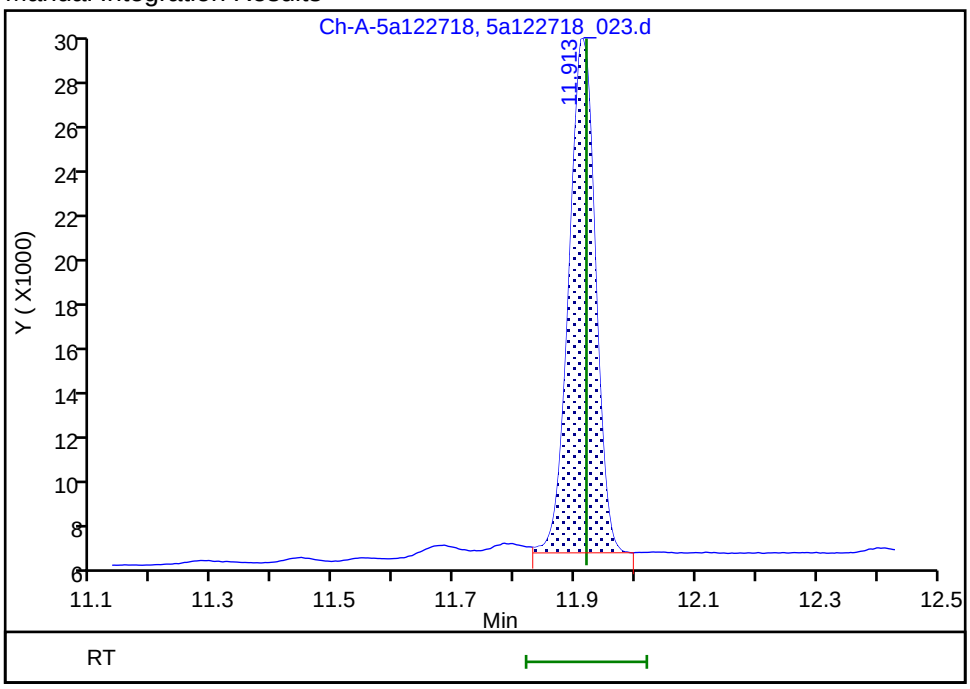
Processing Integration Results

RT: 11.91
Area: 432166
Amount: 36.240598
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 336144
Amount: 28.188380
Amount Units: mg/L



Reviewer: hayashid, 28-Dec-2018 07:48:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_024.d
Lims ID: 720-90479-F-2-A
Client ID: DG-AS3S-3.5-4
Sample Type: Client
Inject. Date: 27-Dec-2018 21:40:42 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0055853-024
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:48:50 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 07:48:50

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.496	2.567	-0.071	4801	NC	
	23 n-Decane		3.809			ND	
A	1 C9-C13	4.550	(2.567-6.532)		134278	NC	
A	21 Stoddard Solvent	4.550	(2.567-6.532)		134278	NC	
A	57 C10-C12	4.768	(3.809-5.727)		75565	7.71	
	24 Dodecane	5.717	5.727	-0.010	14639	NC	
A	3 C9 - C17	5.913	(2.567-9.259)		731749	60.4	
A	47 C9 - C18	6.209	(2.567-9.851)		1089679	101.2	
A	60 C10-C16	6.215	(3.809-8.622)		556208	50.5	
A	15 Kerosene	6.479	(2.567-10.391)		1089679	101.0	
A	25 C9-C19	6.479	(2.567-10.391)		1089679	89.3	
	26 C13	6.498	6.532	-0.034	34995	NC	
$	27 n-Decanoic Acid (Surr)		7.170			ND	U
A	59 C12-C16	7.175	(5.727-8.622)		495282	50.5	
A	62 C10-C20	7.368	(3.809-10.928)		1821072	185.8	
A	28 C9-C24	7.713	(2.567-12.859)		3783013	386.0	
A	29 C9-C25	7.932	(2.567-13.296)		4975597	507.7	
A	54 C10-C23	8.107	(3.809-12.405)		3484306	355.5	
A	4 C10-C24	8.334	(3.809-12.859)		3766547	384.3	
A	16 C10-C25	8.552	(3.809-13.296)		4959131	506.0	
	45 Hexadecane	8.558	8.622	-0.064	69118	NC	
A	14 C10-C26	8.763	(3.809-13.717)		5994044	611.6	
A	67 C12-C22	8.830	(5.727-11.933)		3219589	328.5	
A	12 Unknown Hydrocarbons	9.162	(3.809-14.515)		8033204	NC	
A	32 C10-C28	9.162	(3.809-14.515)		8033204	819.6	
A	5 Diesel	9.162	(3.809-14.515)		8033204	819.6	
A	30 C13-C22	9.232	(6.532-11.933)		3197698	326.3	
	44 Heptadecane	9.271	9.259	0.012	106013	NC	
A	31 C12-C24	9.293	(5.727-12.859)		3705621	378.1	
	49 n-Octadecane		9.851			ND	
A	9 Crude Oil Range Organics (	9.906	(2.567-17.246)		15917896	NC	
A	52 Mineral oil	9.906	(2.567-17.246)		15917896	1420.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.906	(2.567-17.246)		15825671	NC	
33 C19		10.391			ND	
A 64 C13-C28	10.523	(6.532-14.515)		7950387	811.2	
A 17 C10-C36	10.527	(3.809-17.246)		15809205	1613.0	
A 13 C9-C40	10.688	(2.567-18.808)		17989047	2249.3	
A 68 Crude Oil Range Organics (	10.688	(2.567-18.808)		17989047	NC	
A 58 C16-C24	10.741	(8.622-12.859)		3279457	334.6	
61 icosane	10.926	10.928	-0.002	139251	NC	
A 6 C10-C40	11.308	(3.809-18.808)		17966674	2246.5	
$ 34 p-Terphenyl	11.913	11.919	-0.006	298281	25.0	M
35 n-Docosane		11.933			ND	
A 18 C12-C40	12.268	(5.727-18.808)		17879810	2235.7	
36 Tricosane	12.410	12.405	0.005	282241	NC	
A 66 C13-C40	12.670	(6.532-18.808)		17812714	2227.3	
37 n-Tetracosane	12.860	12.859	0.001	850236	NC	
A 2 C16-C36 ORO	12.934	(8.622-17.246)		15250795	2009.5	
38 C25	13.299	13.296	0.003	286029	NC	
A 19 C16-C40	13.715	(8.622-18.808)		17321946	2166.1	
46 n-Hexacosane	13.716	13.717	-0.001	748884	NC	
A 20 C19-C36	13.818	(10.391-17.246)		13822084	1601.9	
A 55 C23-C32	14.184	(12.405-15.963)		8670347	1823.3	
39 n-Octacosane	14.474	14.515	-0.041	1144997	NC	
65 C29	14.912	14.895	0.017	623280	NC	
A 7 Motor Oil	15.052	(12.859-17.246)		10877581	1785.5	
A 40 C24-C36	15.052	(12.859-17.246)		10877581	1785.5	
A 50 C25-C36	15.271	(13.296-17.246)		10123440	1749.8	
A 10 C22-C40	15.371	(11.933-18.808)		13932399	1666.5	
A 41 C23-C40	15.607	(12.405-18.808)		13515293	1648.0	
A 8 C24-C40	15.834	(12.859-18.808)		12817224	1611.2	
56 Dotriacontane	15.978	15.963	0.015	1113996	NC	
A 51 C28-C40	16.662	(14.515-18.808)		9498468	1847.8	
A 63 C29-C40	16.852	(14.895-18.808)		8437197	1854.6	
42 n-Hexatriacontane		17.246			ND	
43 C40		18.808			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

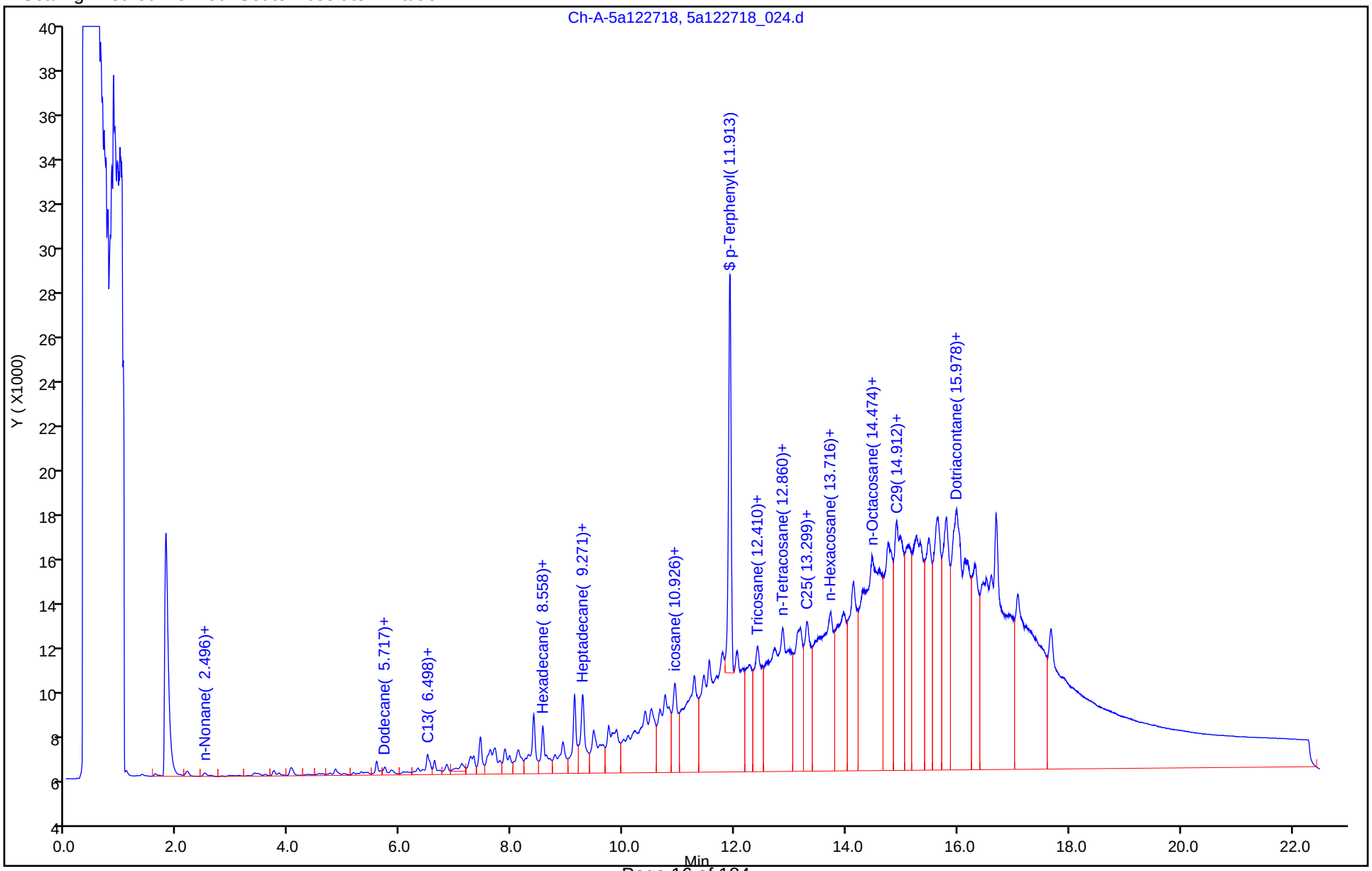
Report Date: 28-Dec-2018 07:48:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_024.d

Injection Date:	27-Dec-2018 21:40:42	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-2-A	Lab Sample ID:	720-90479-2	Worklist Smp#:	24
Client ID:	DG-AS3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_024.d				
Lims ID:	720-90479-F-2-A				
Client ID:	DG-AS3S-3.5-4				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 21:40:42	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0055853-024				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 07:48:50	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0326				

First Level Reviewer: hayashid Date: 28-Dec-2018 07:48:50

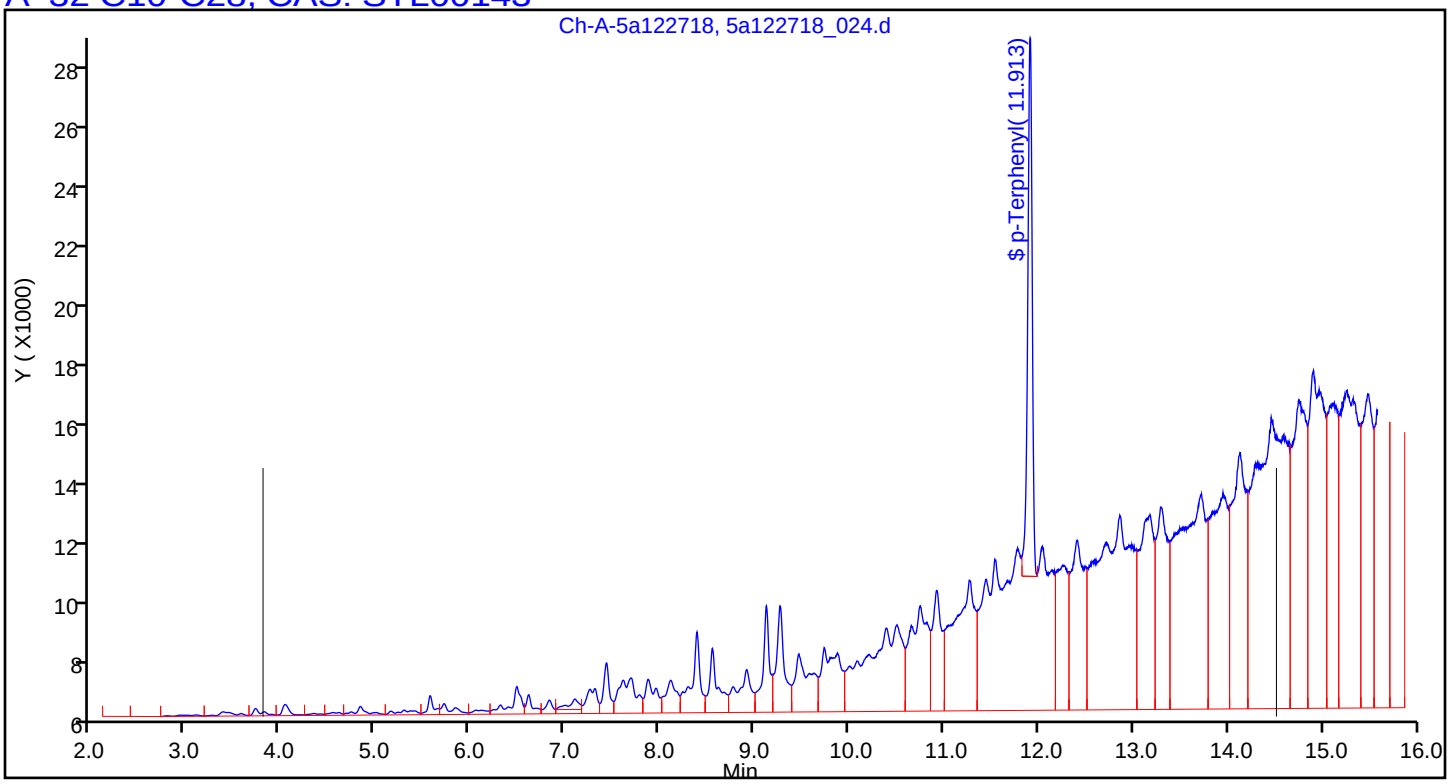
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.0	100.05

Report Date: 28-Dec-2018 07:48:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_024.d				
Injection Date:	27-Dec-2018 21:40:42	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-2-A	Lab Sample ID:	720-90479-2		
Client ID:	DG-AS3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

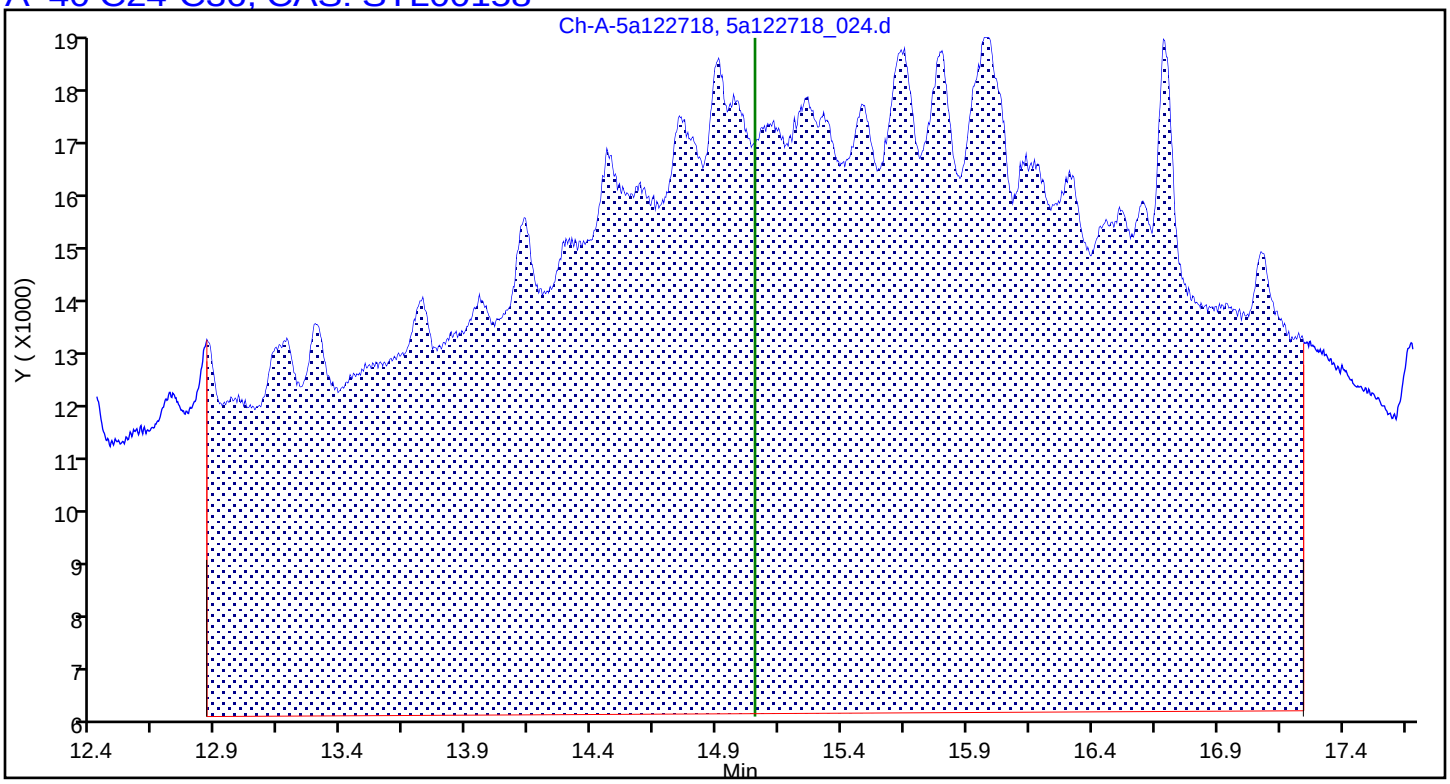


Report Date: 28-Dec-2018 07:48:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_024.d				
Injection Date:	27-Dec-2018 21:40:42	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-2-A	Lab Sample ID:	720-90479-2		
Client ID:	DG-AS3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

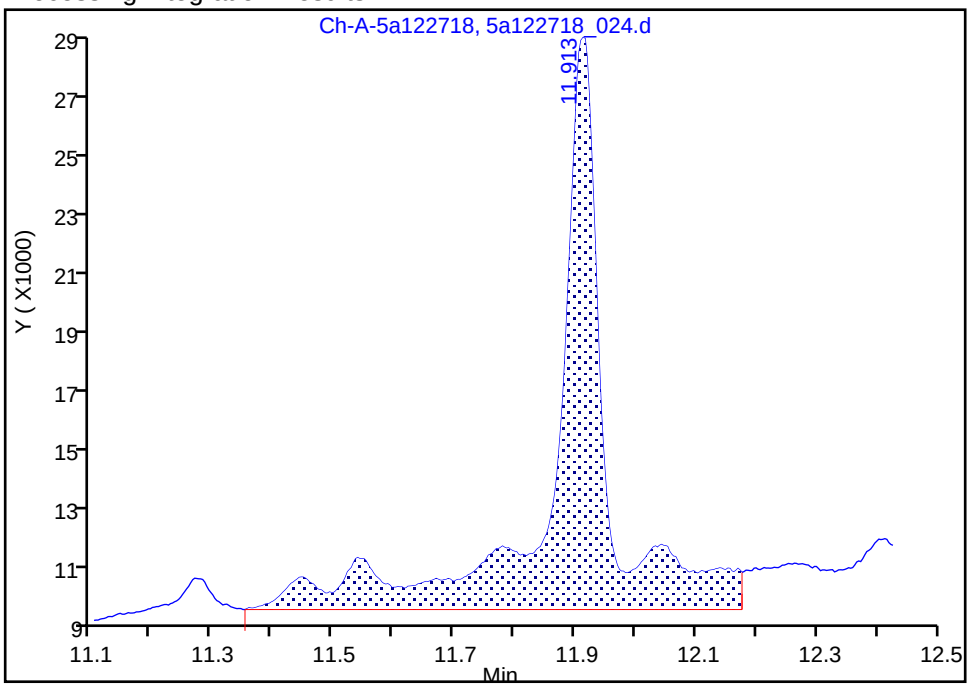
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_024.d				
Injection Date:	27-Dec-2018 21:40:42	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-2-A	Lab Sample ID:	720-90479-2		
Client ID:	DG-AS3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

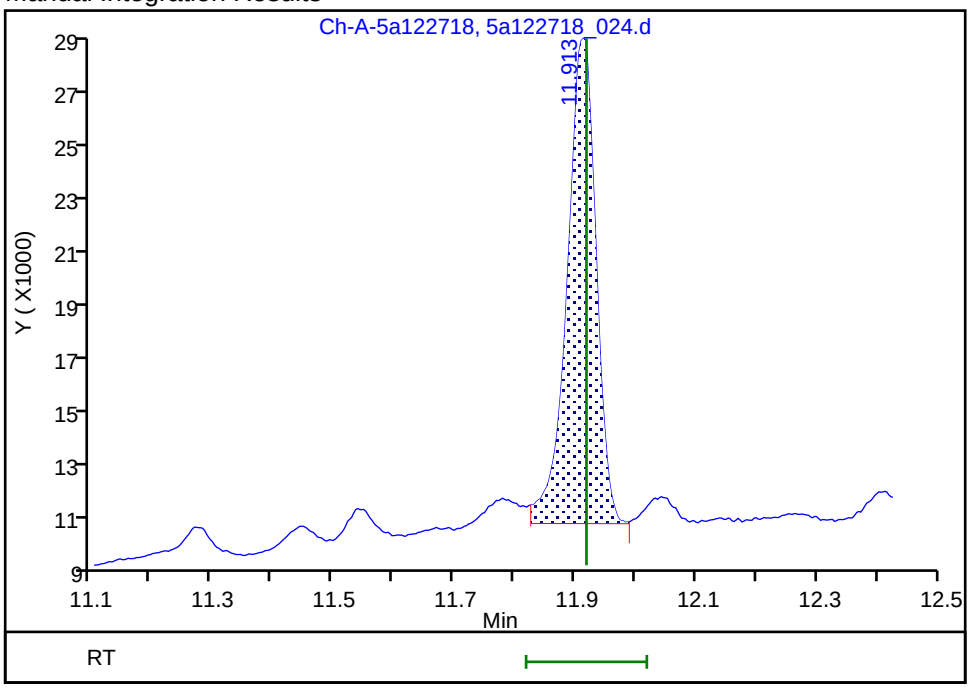
Processing Integration Results

RT: 11.91
Area: 590397
Amount: 49.509541
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 298281
Amount: 25.013263
Amount Units: mg/L



Reviewer: hayashid, 28-Dec-2018 07:48:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_025.d
Lims ID: 720-90479-F-3-A
Client ID: DG-AS3S-8-8.5
Sample Type: Client
Inject. Date: 27-Dec-2018 22:09:39 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0055853-025
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:49:48 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 07:49:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.498	2.567	-0.069	393	NC	
23 n-Decane	3.836	3.809	0.028	517	NC	
A 1 C9-C13	4.550	(2.567-6.532)		172501	NC	
A 21 Stoddard Solvent	4.550	(2.567-6.532)		172501	NC	
A 57 C10-C12	4.768	(3.809-5.727)		13701	1.40	
24 Dodecane		5.727			ND	
A 3 C9 - C17	5.913	(2.567-9.259)		1278459	105.5	
A 47 C9 - C18	6.209	(2.567-9.851)		2084449	193.6	
A 60 C10-C16	6.215	(3.809-8.622)		837104	76.0	
A 15 Kerosene	6.479	(2.567-10.391)		2084449	193.3	
A 25 C9-C19	6.479	(2.567-10.391)		2084449	170.8	
26 C13	6.488	6.532	-0.044	156685	NC	
$ 27 n-Decanoic Acid (Surr)		7.170			ND	U
A 59 C12-C16	7.175	(5.727-8.622)		823403	84.0	
A 62 C10-C20	7.368	(3.809-10.928)		4174929	426.0	
A 28 C9-C24	7.713	(2.567-12.859)		8194647	836.1	
A 29 C9-C25	7.932	(2.567-13.296)		9260089	944.8	
A 54 C10-C23	8.107	(3.809-12.405)		7278417	742.6	
A 4 C10-C24	8.334	(3.809-12.859)		8192532	835.9	
A 16 C10-C25	8.552	(3.809-13.296)		9257974	944.6	
45 Hexadecane	8.657	8.622	0.035	439240	NC	
A 14 C10-C26	8.763	(3.809-13.717)		9257974	944.6	
A 67 C12-C22	8.830	(5.727-11.933)		7264716	741.2	
A 12 Unknown Hydrocarbons	9.162	(3.809-14.515)		12149029	NC	M
A 32 C10-C28	9.162	(3.809-14.515)		12149029	1239.6	M
A 5 Diesel	9.162	(3.809-14.515)		12149029	1239.6	M
A 30 C13-C22	9.232	(6.532-11.933)		7264716	741.2	
44 Heptadecane		9.259			ND	
A 31 C12-C24	9.293	(5.727-12.859)		8178831	834.5	
49 n-Octadecane		9.851			ND	
A 9 Crude Oil Range Organics (	9.906	(2.567-17.246)		19362971	NC	
A 52 Mineral oil	9.906	(2.567-17.246)		19362971	1728.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.906	(2.567-17.246)		22288975	NC	M
33 C19		10.391			ND	
A 64 C13-C28	10.523	(6.532-14.515)		12135328	1238.2	M
A 17 C10-C36	10.527	(3.809-17.246)		22286860	2273.9	M
A 13 C9-C40	10.688	(2.567-18.808)		21392041	2683.0	
A 68 Crude Oil Range Organics (	10.688	(2.567-18.808)		21392041	NC	
A 58 C16-C24	10.741	(8.622-12.859)		7355428	750.5	
61 icosane		10.928			ND	
A 6 C10-C40	11.308	(3.809-18.808)		21387664	2682.5	
$ 34 p-Terphenyl	11.917	11.919	-0.002	294583	24.7	M
35 n-Docosane		11.933			ND	
A 18 C12-C40	12.268	(5.727-18.808)		21325842	2674.7	
36 Tricosane	12.423	12.405	0.018	343959	NC	
A 66 C13-C40	12.670	(6.532-18.808)		21185019	2656.9	
37 n-Tetracosane	12.864	12.859	0.005	674477	NC	
A 2 C16-C36 ORO	12.934	(8.622-17.246)		18060821	2379.7	
38 C25		13.296			ND	
A 19 C16-C40	13.715	(8.622-18.808)		20089891	2518.9	
46 n-Hexacosane		13.717			ND	
A 20 C19-C36	13.818	(10.391-17.246)		14764410	1711.1	
A 55 C23-C32	14.184	(12.405-15.963)		9054861	1904.2	
39 n-Octacosane	14.457	14.515	-0.058	722139	NC	M
65 C29	14.899	14.895	0.003	1366364	NC	
A 7 Motor Oil	15.052	(12.859-17.246)		9967895	1636.2	
A 40 C24-C36	15.052	(12.859-17.246)		10328094	1695.3	M
A 50 C25-C36	15.271	(13.296-17.246)		9064278	1566.7	
A 10 C22-C40	15.371	(11.933-18.808)		13412490	1604.4	
A 41 C23-C40	15.607	(12.405-18.808)		12671262	1545.1	
A 8 C24-C40	15.834	(12.859-18.808)		11741905	1476.0	
56 Dotriacontane		15.963			ND	
A 51 C28-C40	16.662	(14.515-18.808)		8023022	1476.3	
A 63 C29-C40	16.852	(14.895-18.808)		6997083	1432.6	
42 n-Hexatriacontane		17.246			ND	
43 C40		18.808			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

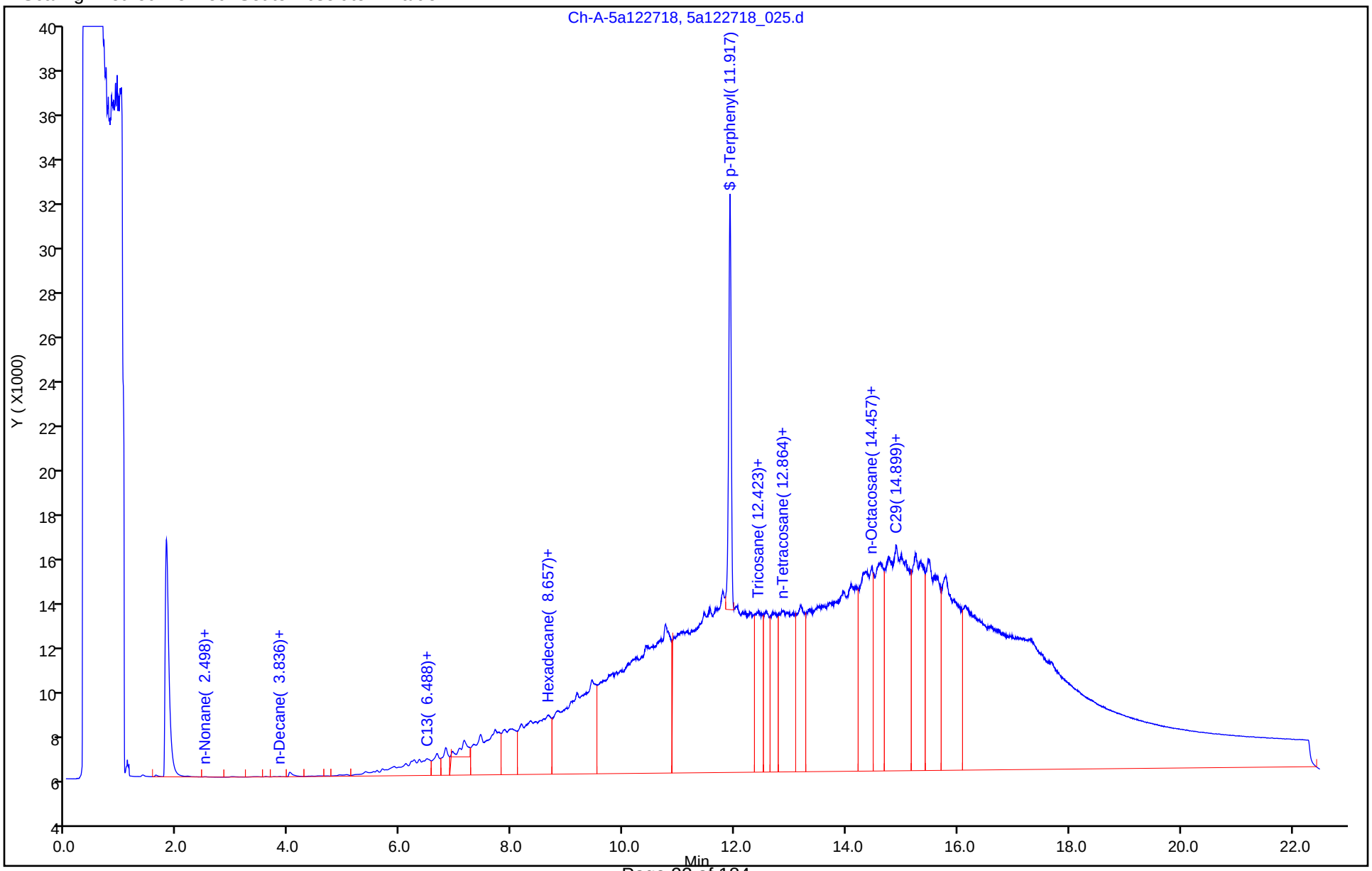
U - Marked Undetected

Report Date: 28-Dec-2018 07:49:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_025.d				
Injection Date:	27-Dec-2018 22:09:39	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-3-A	Lab Sample ID:	720-90479-3	Worklist Smp#:	25
Client ID:	DG-AS3S-8-8.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_025.d				
Lims ID:	720-90479-F-3-A				
Client ID:	DG-AS3S-8-8.5				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 22:09:39	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0055853-025				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 07:49:48	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0326				

First Level Reviewer: hayashid Date: 28-Dec-2018 07:49:48

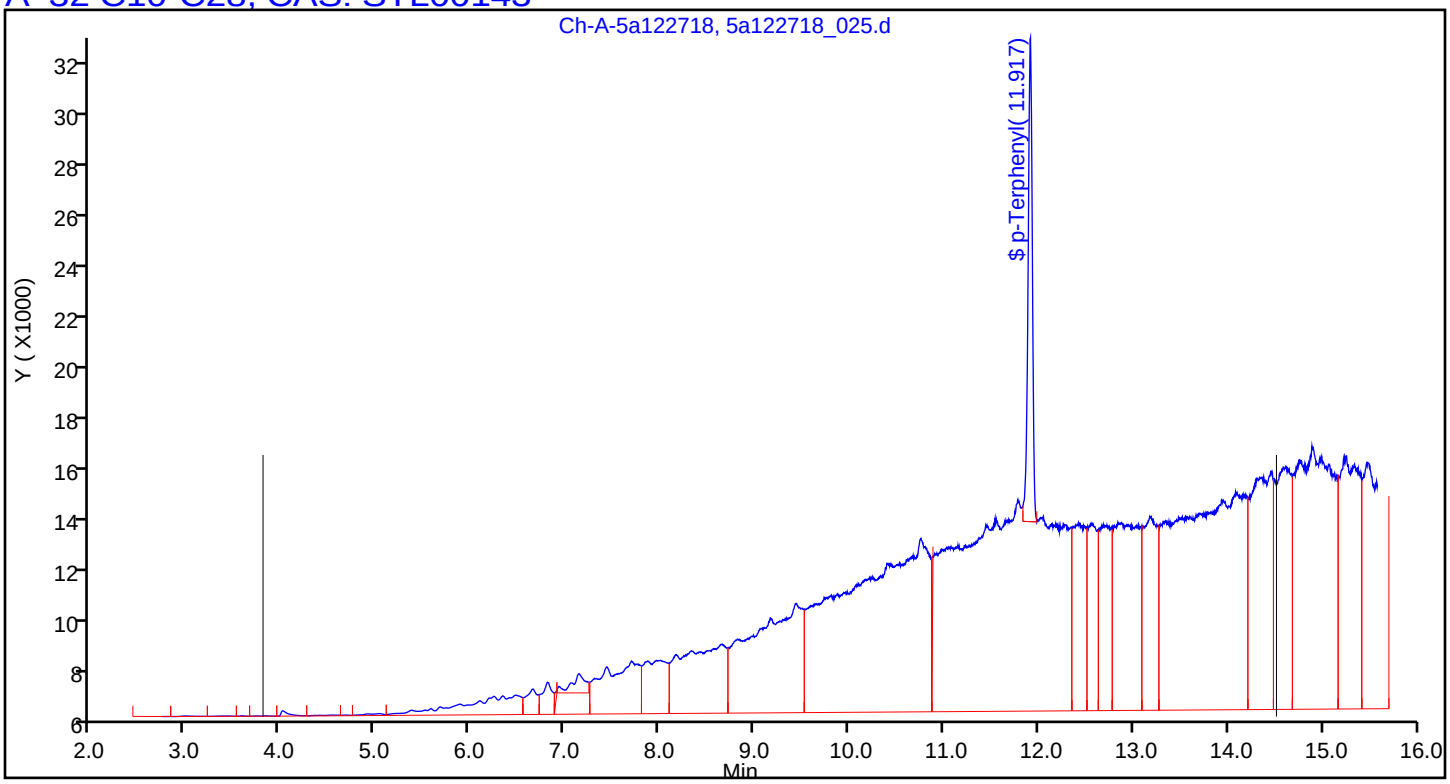
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.7	98.81

Report Date: 28-Dec-2018 07:49:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_025.d				
Injection Date:	27-Dec-2018 22:09:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-3-A	Lab Sample ID:	720-90479-3		
Client ID:	DG-AS3S-8-8.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

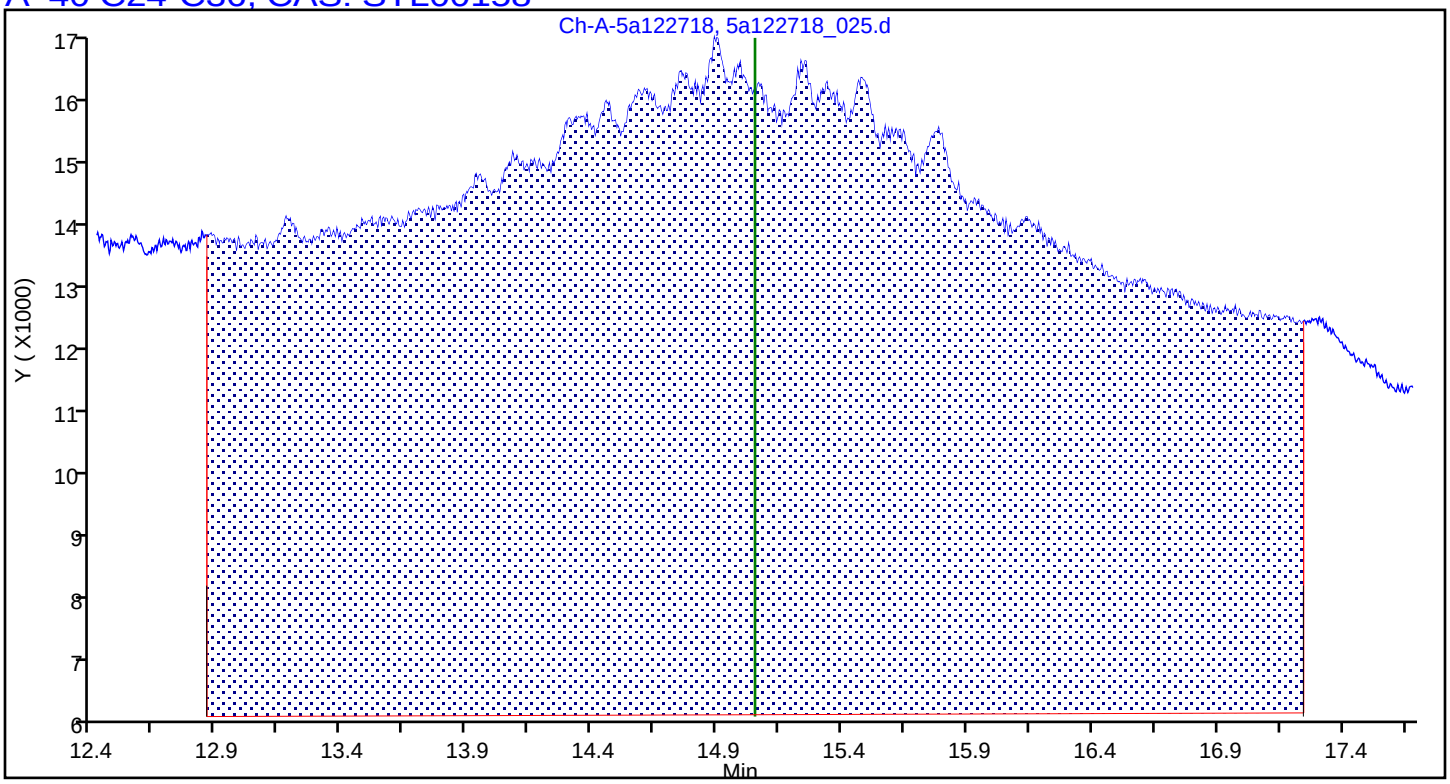


Report Date: 28-Dec-2018 07:49:50 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_025.d				
Injection Date:	27-Dec-2018 22:09:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-3-A	Lab Sample ID:	720-90479-3		
Client ID:	DG-AS3S-8-8.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

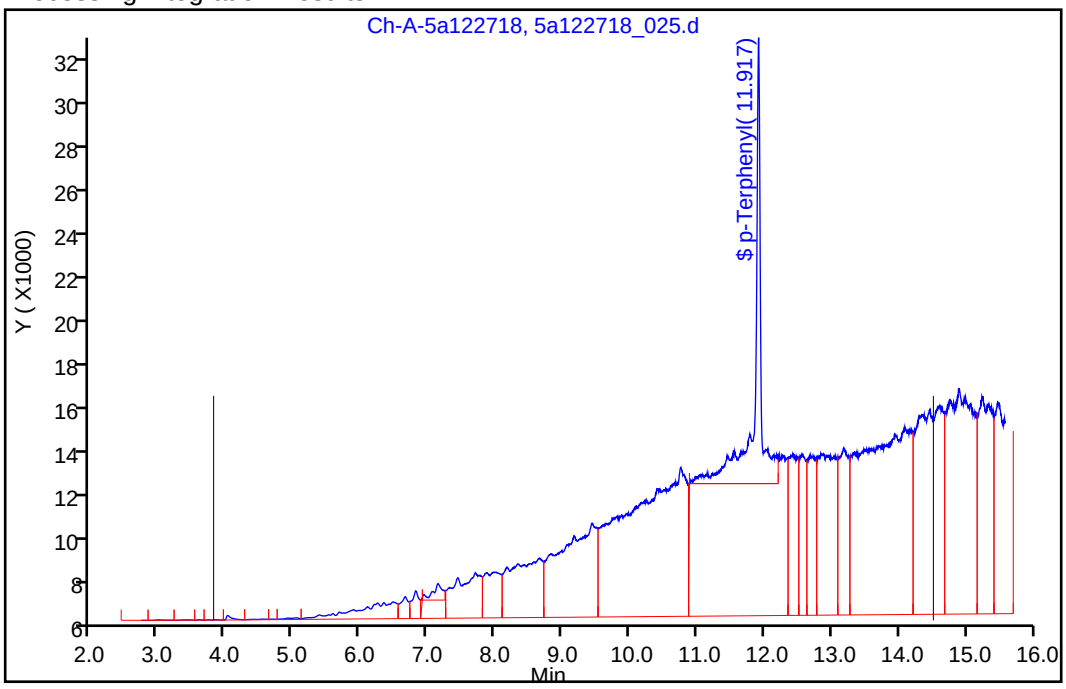
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_025.d				
Injection Date:	27-Dec-2018 22:09:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-3-A	Lab Sample ID:	720-90479-3		
Client ID:	DG-AS3S-8-8.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

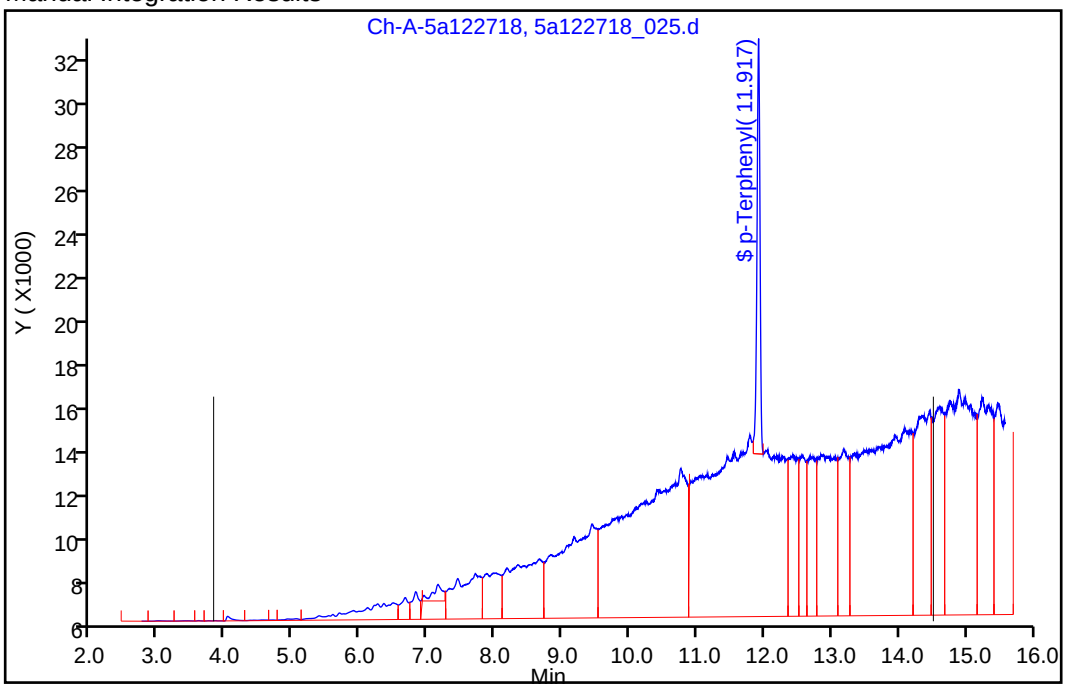
Processing Integration Results

RT: 9.16
Response: 11001229
Amount: 1122.4583



Manual Integration Results

RT: 9.16
Response: 12149029
Amount: 1239.5687



Reviewer: hayashid, 28-Dec-2018 07:49:30

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

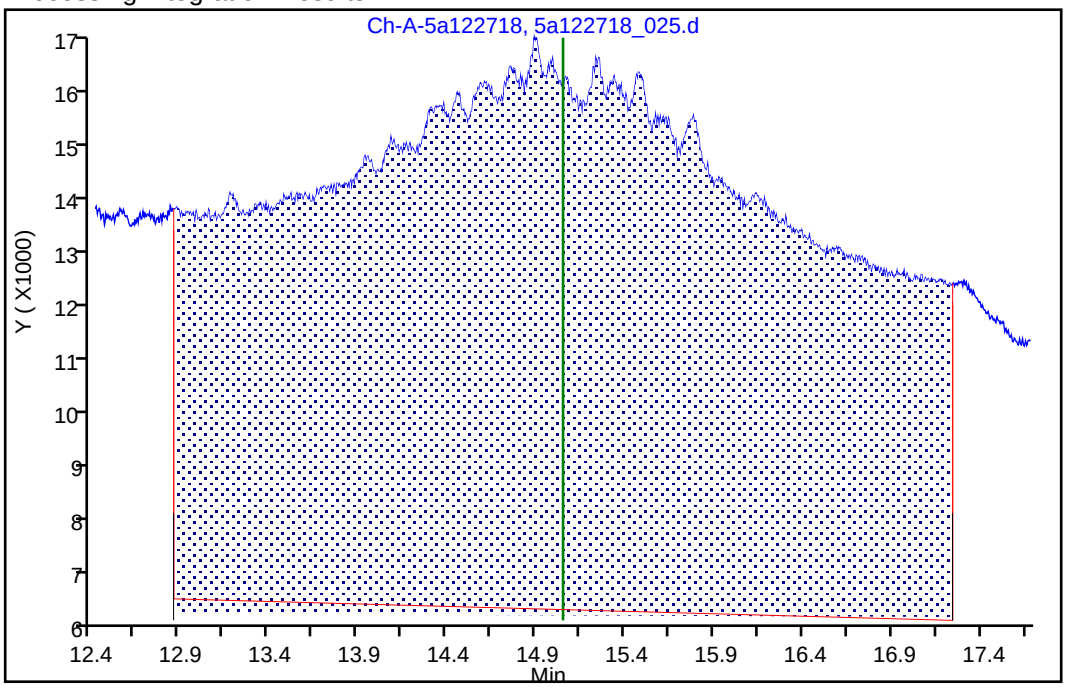
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_025.d				
Injection Date:	27-Dec-2018 22:09:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-3-A	Lab Sample ID:	720-90479-3		
Client ID:	DG-AS3S-8-8.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.052, CAS: STL00158

Signal: 1

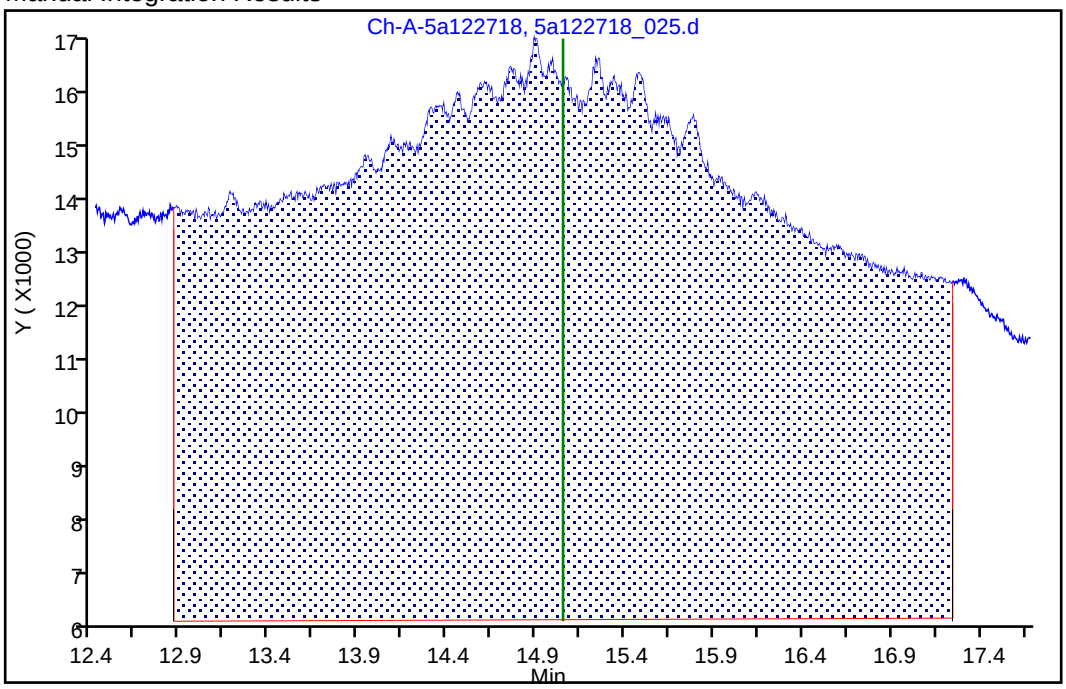
Processing Integration Results

RT: 15.05
Response: 9967895
Amount: 1636.1961



Manual Integration Results

RT: 15.05
Response: 10328094
Amount: 1695.3215



Reviewer: hayashid, 28-Dec-2018 07:49:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

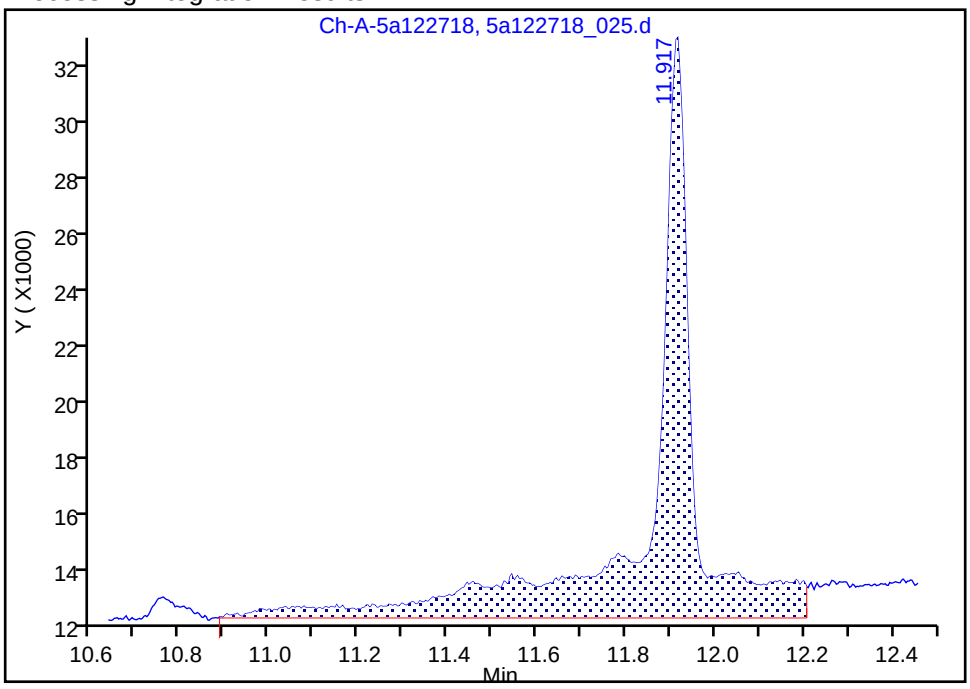
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_025.d				
Injection Date:	27-Dec-2018 22:09:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-3-A	Lab Sample ID:	720-90479-3		
Client ID:	DG-AS3S-8-8.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

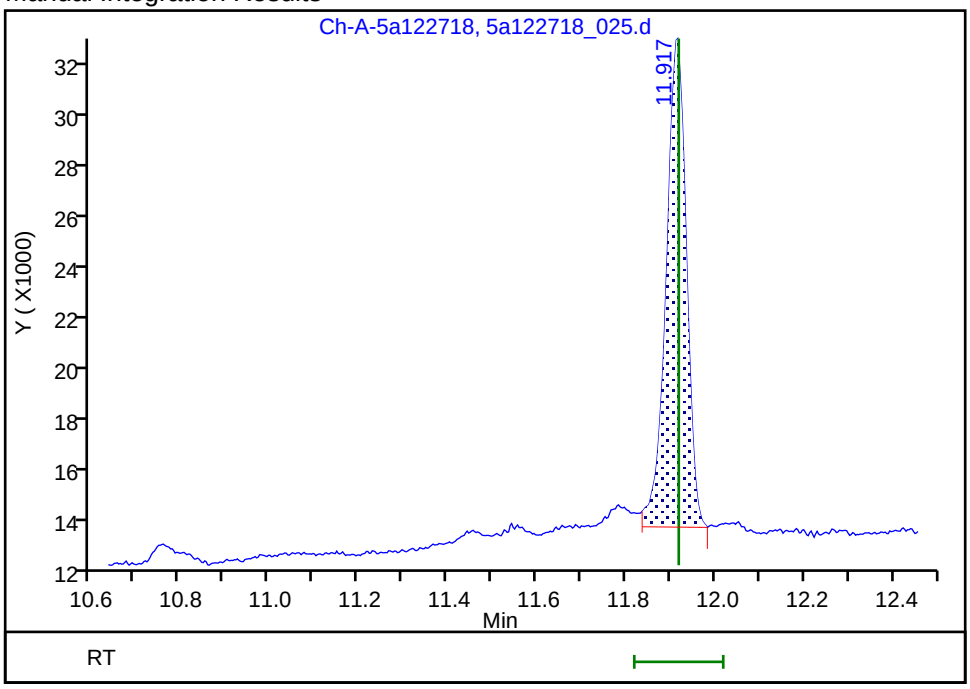
Processing Integration Results

RT: 11.92
Area: 682137
Amount: 57.202678
Amount Units: mg/L



Manual Integration Results

RT: 11.92
Area: 294583
Amount: 24.703156
Amount Units: mg/L



Reviewer: hayashid, 28-Dec-2018 07:49:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_026.d
Lims ID: 720-90479-F-4-A
Client ID: DG-AU3S-0.5-1
Sample Type: Client
Inject. Date: 27-Dec-2018 22:38:56 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0055853-026
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:51:13 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 07:51:13

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.502	2.567	-0.065	746	NC	
	23 n-Decane	3.831	3.809	0.023	1589	NC	
A	1 C9-C13	4.550	(2.567-6.532)		31658	NC	
A	21 Stoddard Solvent	4.550	(2.567-6.532)		31658	NC	
A	57 C10-C12	4.768	(3.809-5.727)		16149	1.65	
	24 Dodecane		5.727			ND	
A	3 C9 - C17	5.913	(2.567-9.259)		130246	10.7	
A	47 C9 - C18	6.209	(2.567-9.851)		266553	24.8	
A	60 C10-C16	6.215	(3.809-8.622)		126153	11.4	
A	15 Kerosene	6.479	(2.567-10.391)		266553	24.7	
A	25 C9-C19	6.479	(2.567-10.391)		266553	21.8	
	26 C13	6.502	6.532	-0.030	11416	NC	
$	27 n-Decanoic Acid (Surr)		7.170			ND	U
A	59 C12-C16	7.175	(5.727-8.622)		116421	11.9	
A	62 C10-C20	7.368	(3.809-10.928)		599323	61.1	
A	28 C9-C24	7.713	(2.567-12.859)		1215359	124.0	
A	29 C9-C25	7.932	(2.567-13.296)		1914812	195.4	
A	54 C10-C23	8.107	(3.809-12.405)		1211266	123.6	
A	4 C10-C24	8.334	(3.809-12.859)		1211266	123.6	
A	16 C10-C25	8.552	(3.809-13.296)		1910719	195.0	
	45 Hexadecane	8.615	8.622	-0.007	13721	NC	
A	14 C10-C26	8.763	(3.809-13.717)		2235692	228.1	
A	67 C12-C22	8.830	(5.727-11.933)		1107679	113.0	
A	12 Unknown Hydrocarbons	9.162	(3.809-14.515)		3019335	NC	
A	32 C10-C28	9.162	(3.809-14.515)		3019335	308.1	
A	5 Diesel	9.162	(3.809-14.515)		3019335	308.1	
A	30 C13-C22	9.232	(6.532-11.933)		1101262	112.4	
	44 Heptadecane	9.269	9.259	0.010	56037	NC	
A	31 C12-C24	9.293	(5.727-12.859)		1201534	122.6	
	49 n-Octadecane	9.813	9.851	-0.038	60188	NC	
A	9 Crude Oil Range Organics (	9.906	(2.567-17.246)		7037735	NC	
A	52 Mineral oil	9.906	(2.567-17.246)		7037735	628.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.906	(2.567-17.246)		9067958	NC	
33 C19		10.391			ND	
A 64 C13-C28	10.523	(6.532-14.515)		3003186	306.4	
A 17 C10-C36	10.527	(3.809-17.246)		9063865	924.8	
A 13 C9-C40	10.688	(2.567-18.808)		8547200	1045.9	
A 68 Crude Oil Range Organics (	10.688	(2.567-18.808)		8547200	NC	
A 58 C16-C24	10.741	(8.622-12.859)		1098834	112.1	
61 icosane		10.928			ND	
A 6 C10-C40	11.308	(3.809-18.808)		8540158	1045.3	
$ 34 p-Terphenyl	11.913	11.919	-0.006	315897	26.5	M
35 n-Docosane		11.933			ND	
A 18 C12-C40	12.268	(5.727-18.808)		8513733	1042.4	
36 Tricosane		12.405			ND	
A 66 C13-C40	12.670	(6.532-18.808)		8489302	1039.4	
37 n-Tetracosane	12.861	12.859	0.002	368814	NC	
A 2 C16-C36 ORO	12.934	(8.622-17.246)		6834084	900.5	
38 C25		13.296			ND	
A 19 C16-C40	13.715	(8.622-18.808)		8343549	1021.6	
46 n-Hexacosane	13.622	13.717	-0.095	324973	NC	
A 20 C19-C36	13.818	(10.391-17.246)		6036590	699.6	
A 55 C23-C32	14.184	(12.405-15.963)		3746226	787.8	
39 n-Octacosane	14.455	14.515	-0.060	383797	NC	
65 C29		14.895			ND	
A 7 Motor Oil	15.052	(12.859-17.246)		4900210	804.4	
A 40 C24-C36	15.052	(12.859-17.246)		4900210	804.4	
A 50 C25-C36	15.271	(13.296-17.246)		4582283	792.0	
A 10 C22-C40	15.371	(11.933-18.808)		6538727	782.1	
A 41 C23-C40	15.607	(12.405-18.808)		6566584	800.7	
A 8 C24-C40	15.834	(12.859-18.808)		6294079	791.2	
56 Dotriacontane		15.963			ND	
A 51 C28-C40	16.662	(14.515-18.808)		4859457	809.7	
A 63 C29-C40	16.852	(14.895-18.808)		4411255	814.9	
42 n-Hexatriacontane		17.246			ND	
43 C40		18.808			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

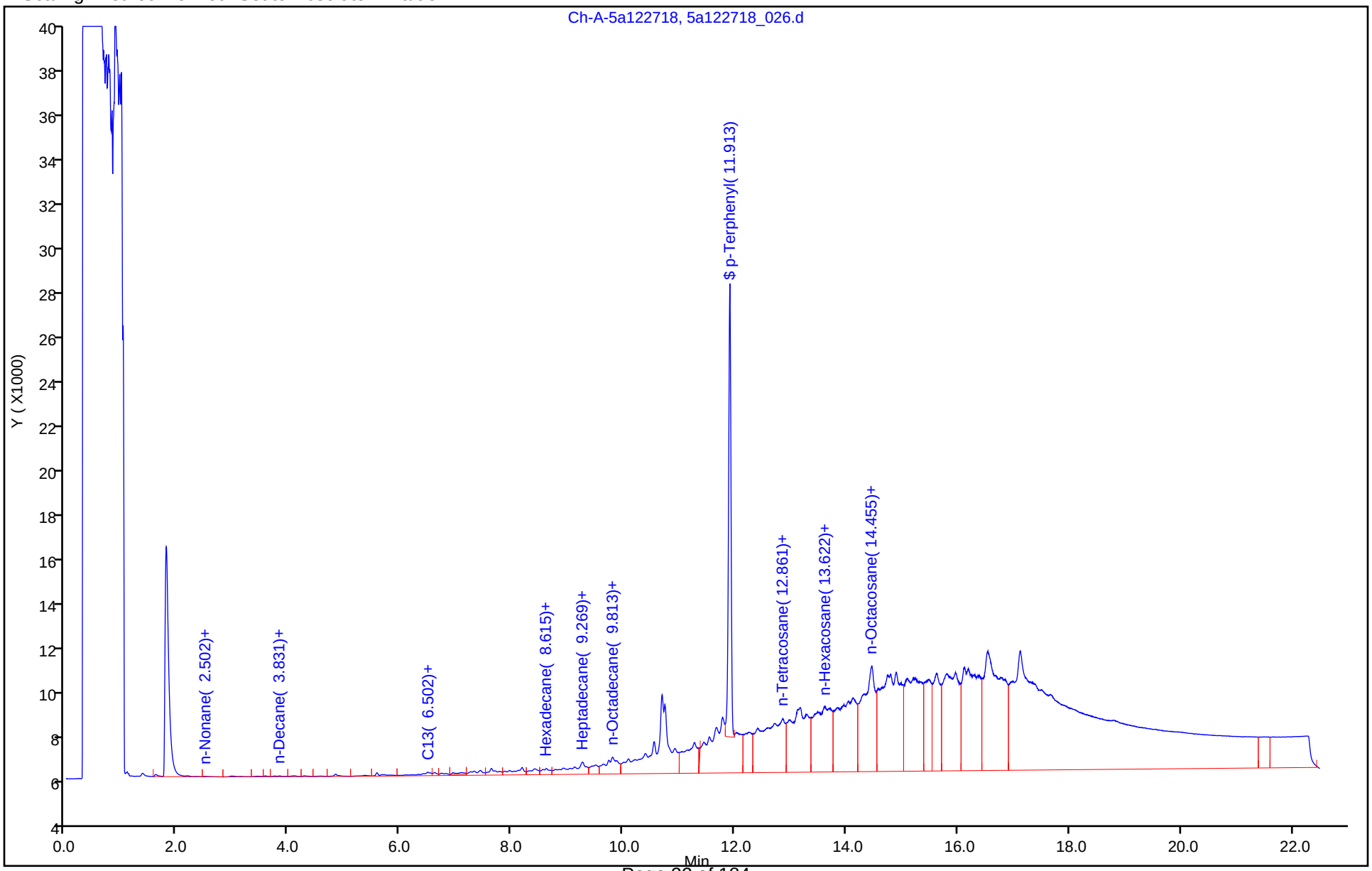
Report Date: 28-Dec-2018 07:51:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_026.d

Injection Date:	27-Dec-2018 22:38:56	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-4-A	Lab Sample ID:	720-90479-4	Worklist Smp#:	26
Client ID:	DG-AU3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_026.d				
Lims ID:	720-90479-F-4-A				
Client ID:	DG-AU3S-0.5-1				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 22:38:56	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0055853-026				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 07:51:13	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0326				
First Level Reviewer: hayashid		Date:	28-Dec-2018 07:51:13		

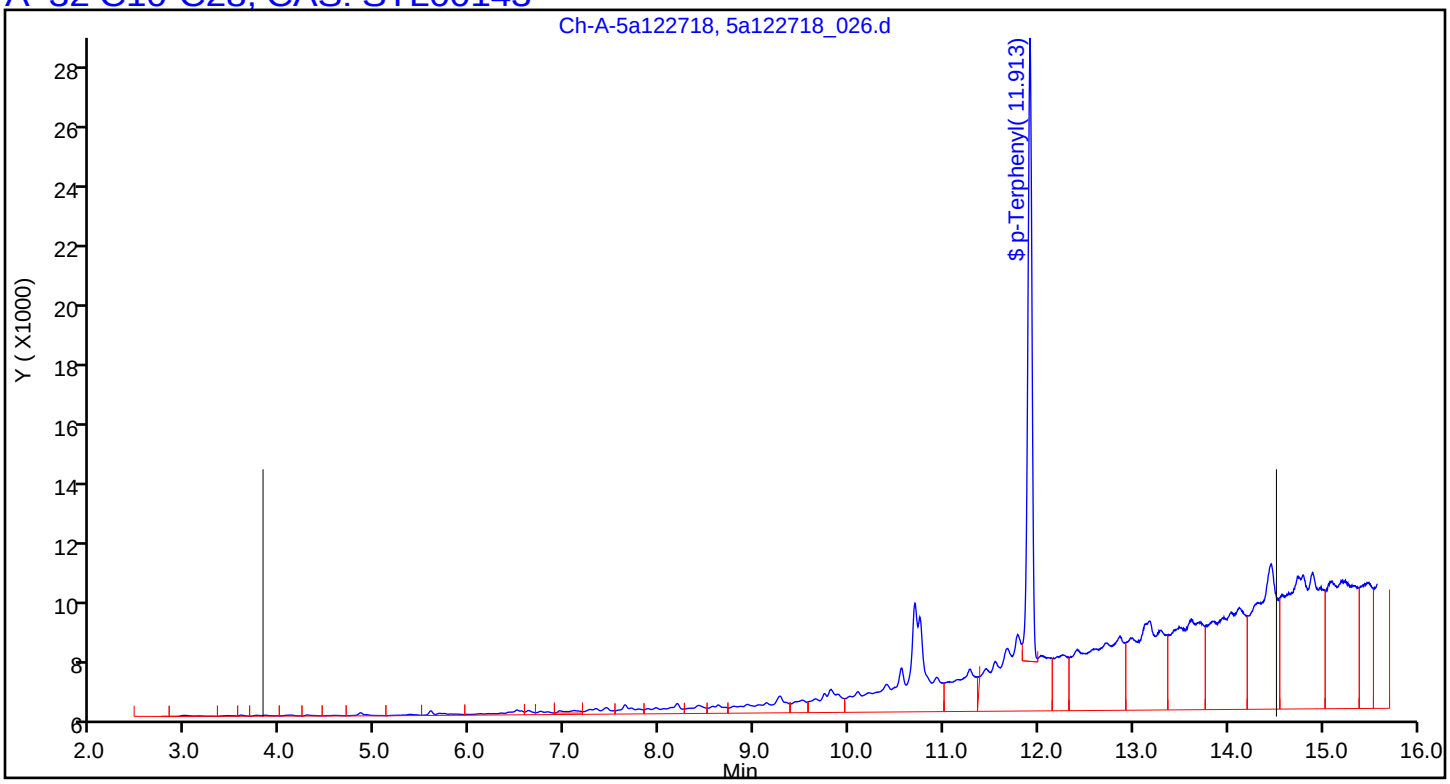
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.5	105.96

Report Date: 28-Dec-2018 07:51:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_026.d				
Injection Date:	27-Dec-2018 22:38:56	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-4-A	Lab Sample ID:	720-90479-4		
Client ID:	DG-AU3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

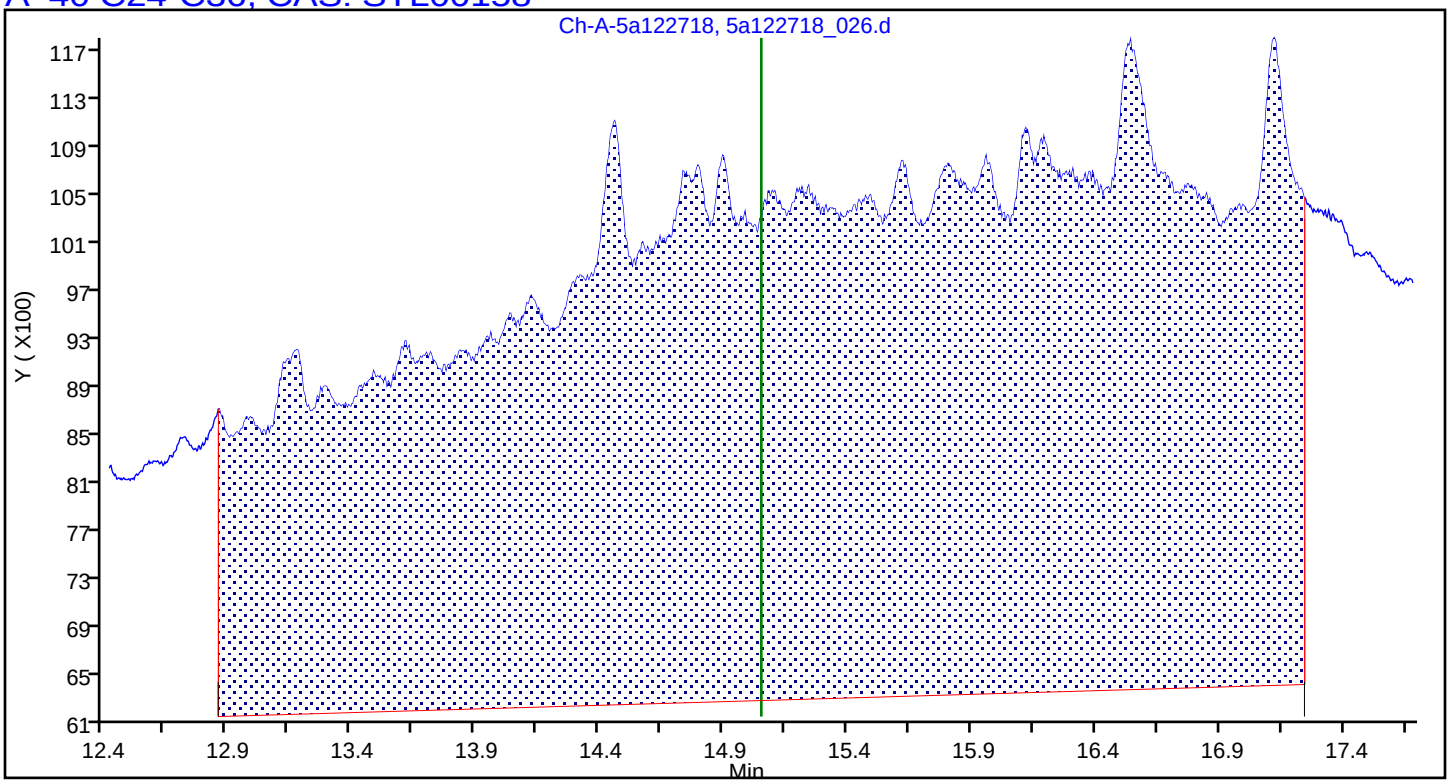


Report Date: 28-Dec-2018 07:51:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_026.d				
Injection Date:	27-Dec-2018 22:38:56	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-4-A	Lab Sample ID:	720-90479-4		
Client ID:	DG-AU3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

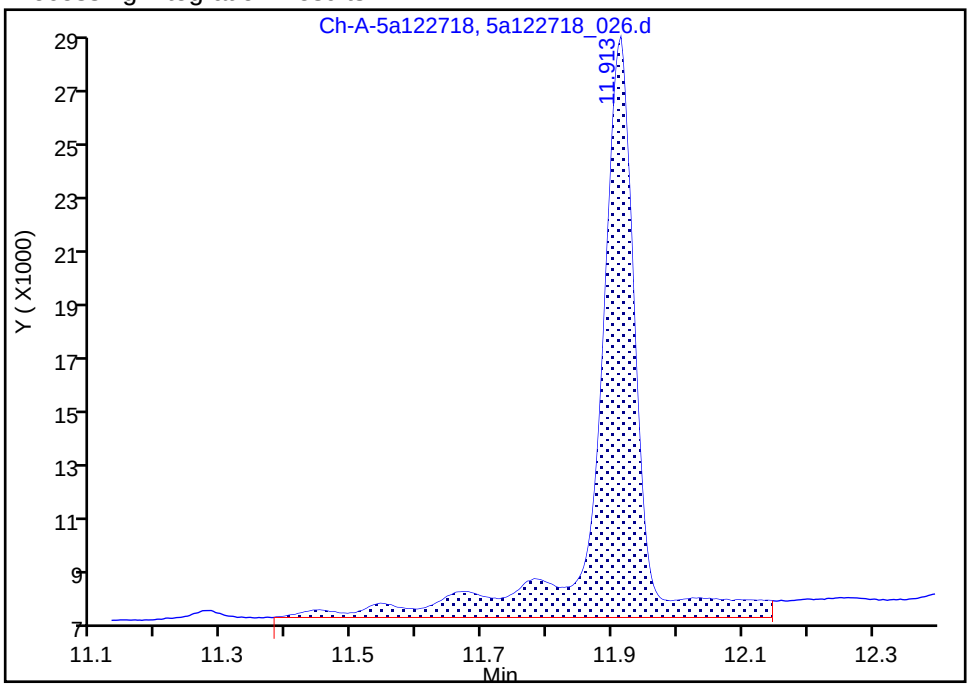
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_026.d				
Injection Date:	27-Dec-2018 22:38:56	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-4-A	Lab Sample ID:	720-90479-4		
Client ID:	DG-AU3S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

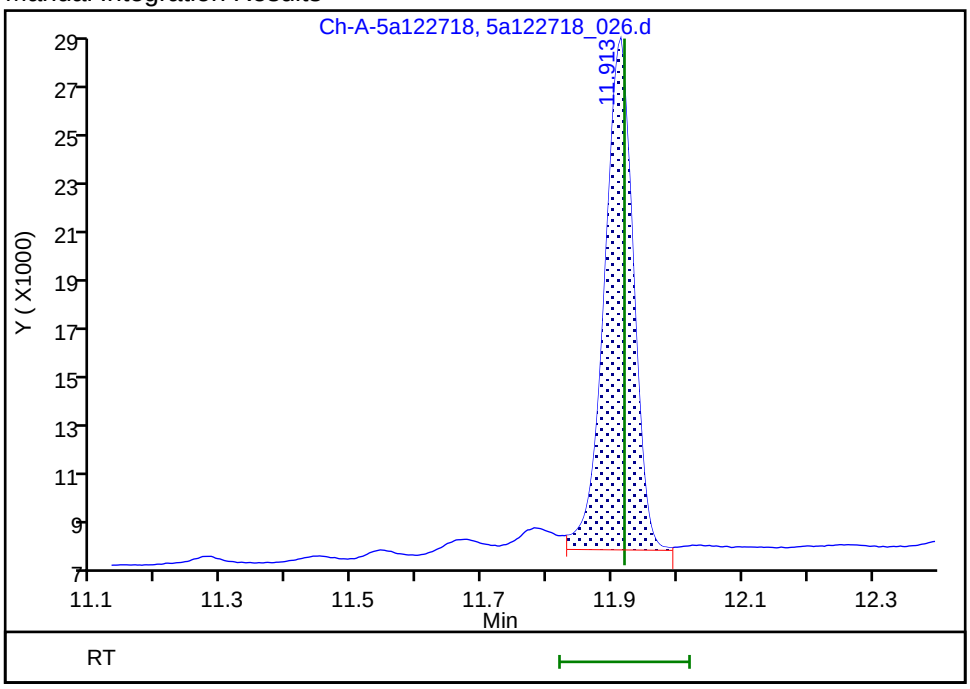
Processing Integration Results

RT: 11.91
Area: 447373
Amount: 37.515827
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 315897
Amount: 26.490506
Amount Units: mg/L



Reviewer: hayashid, 28-Dec-2018 07:50:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_027.d
Lims ID: 720-90479-F-5-A
Client ID: DG-AU3S-3.5-4
Sample Type: Client
Inject. Date: 27-Dec-2018 23:07:45 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0055853-027
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:51:57 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 07:51:57

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.580	2.567	0.013	9693	NC	
	23 n-Decane	3.816	3.809	0.008	25496	NC	
A	1 C9-C13	4.550	(2.567-6.532)		576617	NC	
A	21 Stoddard Solvent	4.550	(2.567-6.532)		576617	NC	
A	57 C10-C12	4.768	(3.809-5.727)		319375	32.6	
	24 Dodecane	5.721	5.727	-0.006	73960	NC	
A	3 C9 - C17	5.913	(2.567-9.259)		2442064	201.5	
A	47 C9 - C18	6.209	(2.567-9.851)		3404299	316.3	
A	60 C10-C16	6.215	(3.809-8.622)		2164878	196.4	
A	15 Kerosene	6.479	(2.567-10.391)		3404299	315.7	
A	25 C9-C19	6.479	(2.567-10.391)		3404299	278.9	
	26 C13	6.499	6.532	-0.033	75641	NC	
$	27 n-Decanoic Acid (Surr)		7.170			ND	U
A	59 C12-C16	7.175	(5.727-8.622)		1919463	195.8	
A	62 C10-C20	7.368	(3.809-10.928)		4423321	451.3	
A	28 C9-C24	7.713	(2.567-12.859)		7501571	765.4	
A	29 C9-C25	7.932	(2.567-13.296)		8130380	829.5	
A	54 C10-C23	8.107	(3.809-12.405)		7252452	740.0	
A	4 C10-C24	8.334	(3.809-12.859)		7429088	758.0	
A	16 C10-C25	8.552	(3.809-13.296)		8057897	822.1	
	45 Hexadecane	8.568	8.622	-0.054	190626	NC	
A	14 C10-C26	8.763	(3.809-13.717)		9243861	943.2	
A	67 C12-C22	8.830	(5.727-11.933)		5961558	608.3	
A	12 Unknown Hydrocarbons	9.162	(3.809-14.515)		10461376	NC	
A	32 C10-C28	9.162	(3.809-14.515)		10461376	1067.4	
A	5 Diesel	9.162	(3.809-14.515)		10461376	1067.4	
A	30 C13-C22	9.232	(6.532-11.933)		5778480	589.6	
	44 Heptadecane	9.269	9.259	0.010	398664	NC	
A	31 C12-C24	9.293	(5.727-12.859)		7183673	733.0	
	49 n-Octadecane	9.836	9.851	-0.015	318687	NC	
A	9 Crude Oil Range Organics (	9.906	(2.567-17.246)		15803934	NC	
A	52 Mineral oil	9.906	(2.567-17.246)		15803934	1410.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.906	(2.567-17.246)		18075634	NC	
33 C19		10.391			ND	
A 64 C13-C28	10.523	(6.532-14.515)		10032883	1023.7	
A 17 C10-C36	10.527	(3.809-17.246)		18003151	1836.9	
A 13 C9-C40	10.688	(2.567-18.808)		17361450	2169.3	
A 68 Crude Oil Range Organics (	10.688	(2.567-18.808)		17361450	NC	
A 58 C16-C24	10.741	(8.622-12.859)		5454836	556.6	
61 icosane	10.930	10.928	0.002	515863	NC	
A 6 C10-C40	11.308	(3.809-18.808)		17276860	2158.6	
$ 34 p-Terphenyl	11.913	11.919	-0.006	321536	27.0	M
35 n-Docosane		11.933			ND	
A 18 C12-C40	12.268	(5.727-18.808)		16998601	2123.4	
36 Tricosane	12.404	12.405	-0.001	243645	NC	
A 66 C13-C40	12.670	(6.532-18.808)		16757945	2092.9	
37 n-Tetracosane	12.861	12.859	0.002	628809	NC	
A 2 C16-C36 ORO	12.934	(8.622-17.246)		13528777	1782.6	
38 C25	13.298	13.296	0.002	474914	NC	
A 19 C16-C40	13.715	(8.622-18.808)		15086293	1881.1	
46 n-Hexacosane	13.716	13.717	-0.001	711050	NC	
A 20 C19-C36	13.818	(10.391-17.246)		10741636	1244.9	
A 55 C23-C32	14.184	(12.405-15.963)		6104689	1283.8	
39 n-Octacosane	14.506	14.515	-0.009	710847	NC	
65 C29	14.901	14.895	0.006	996794	NC	
A 7 Motor Oil	15.052	(12.859-17.246)		6934681	1138.3	
A 40 C24-C36	15.052	(12.859-17.246)		7323854	1202.2	M
A 50 C25-C36	15.271	(13.296-17.246)		6343872	1096.5	
A 10 C22-C40	15.371	(11.933-18.808)		9244540	1105.8	
A 41 C23-C40	15.607	(12.405-18.808)		8799635	1073.0	
A 8 C24-C40	15.834	(12.859-18.808)		8233393	1035.0	
56 Dotriacontane	15.961	15.963	-0.002	356021	NC	
A 51 C28-C40	16.662	(14.515-18.808)		5891681	1012.5	
A 63 C29-C40	16.852	(14.895-18.808)		5244706	999.8	
42 n-Hexatriacontane		17.246			ND	
43 C40		18.808			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

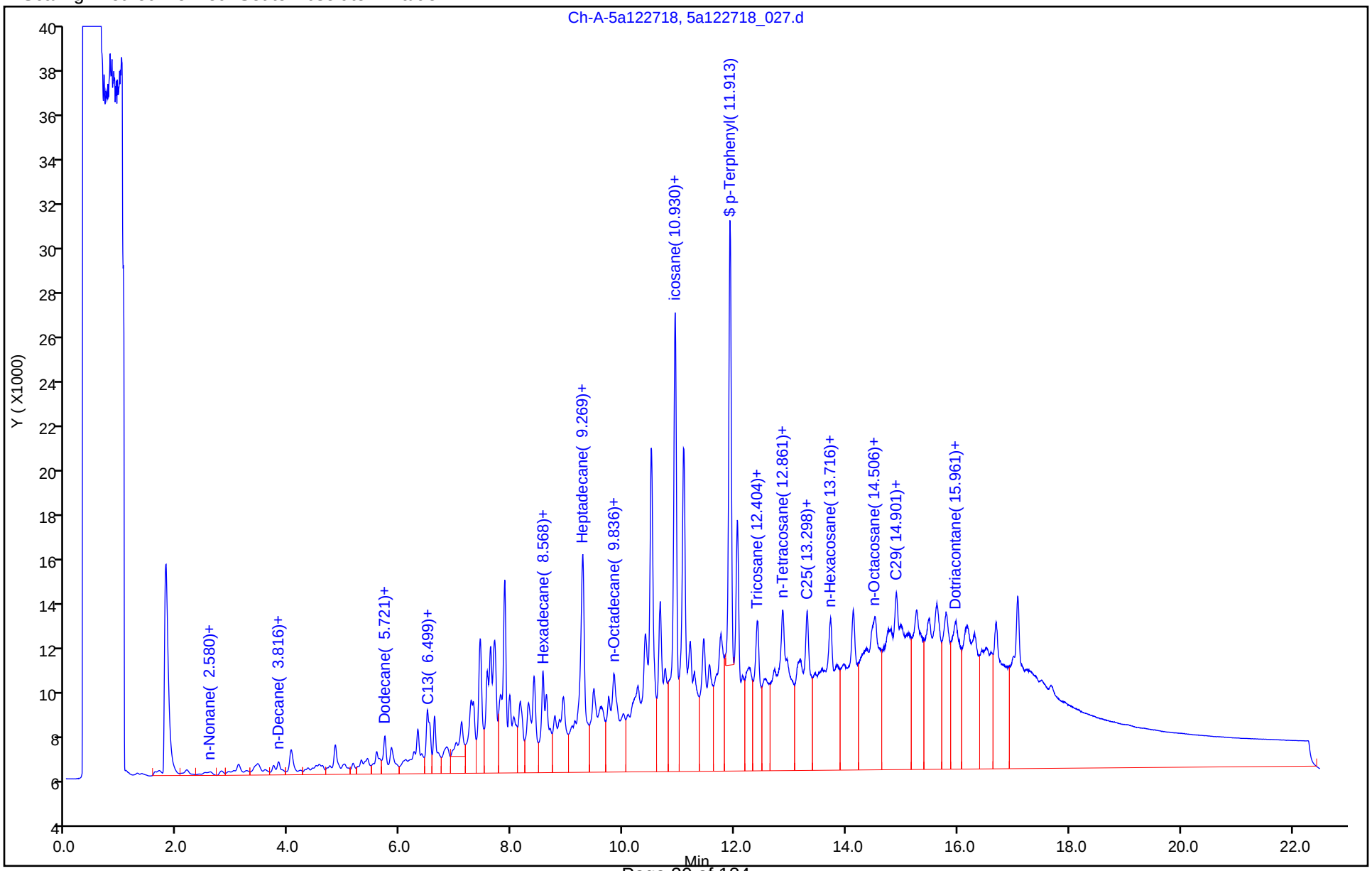
Report Date: 28-Dec-2018 07:51:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_027.d

Injection Date:	27-Dec-2018 23:07:45	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-5-A	Lab Sample ID:	720-90479-5	Worklist Smp#:	27
Client ID:	DG-AU3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_027.d				
Lims ID:	720-90479-F-5-A				
Client ID:	DG-AU3S-3.5-4				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 23:07:45	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0055853-027				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 07:51:57	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0326				
First Level Reviewer: hayashid		Date:	28-Dec-2018 07:51:57		

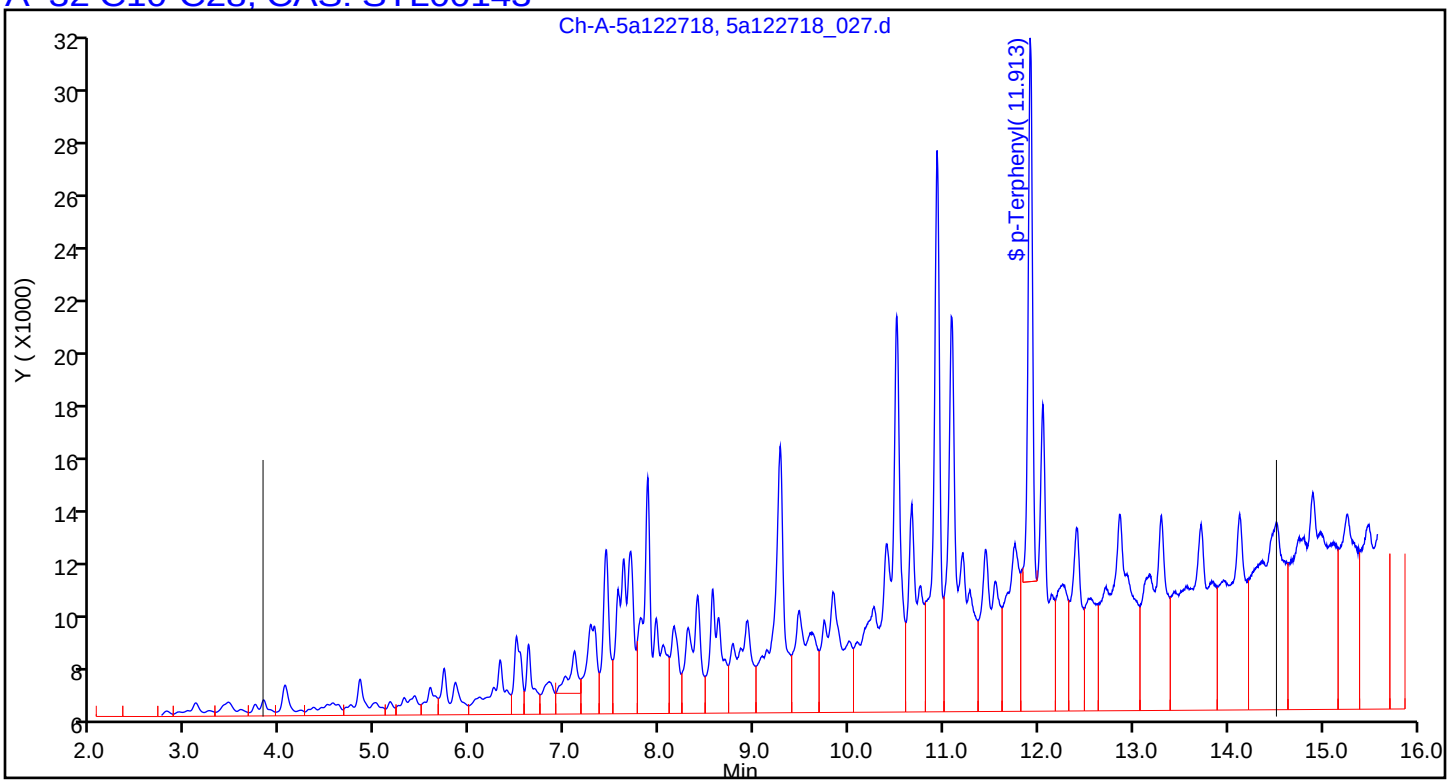
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.0	107.85

Report Date: 28-Dec-2018 07:51:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_027.d				
Injection Date:	27-Dec-2018 23:07:45	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-5-A	Lab Sample ID:	720-90479-5		
Client ID:	DG-AU3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

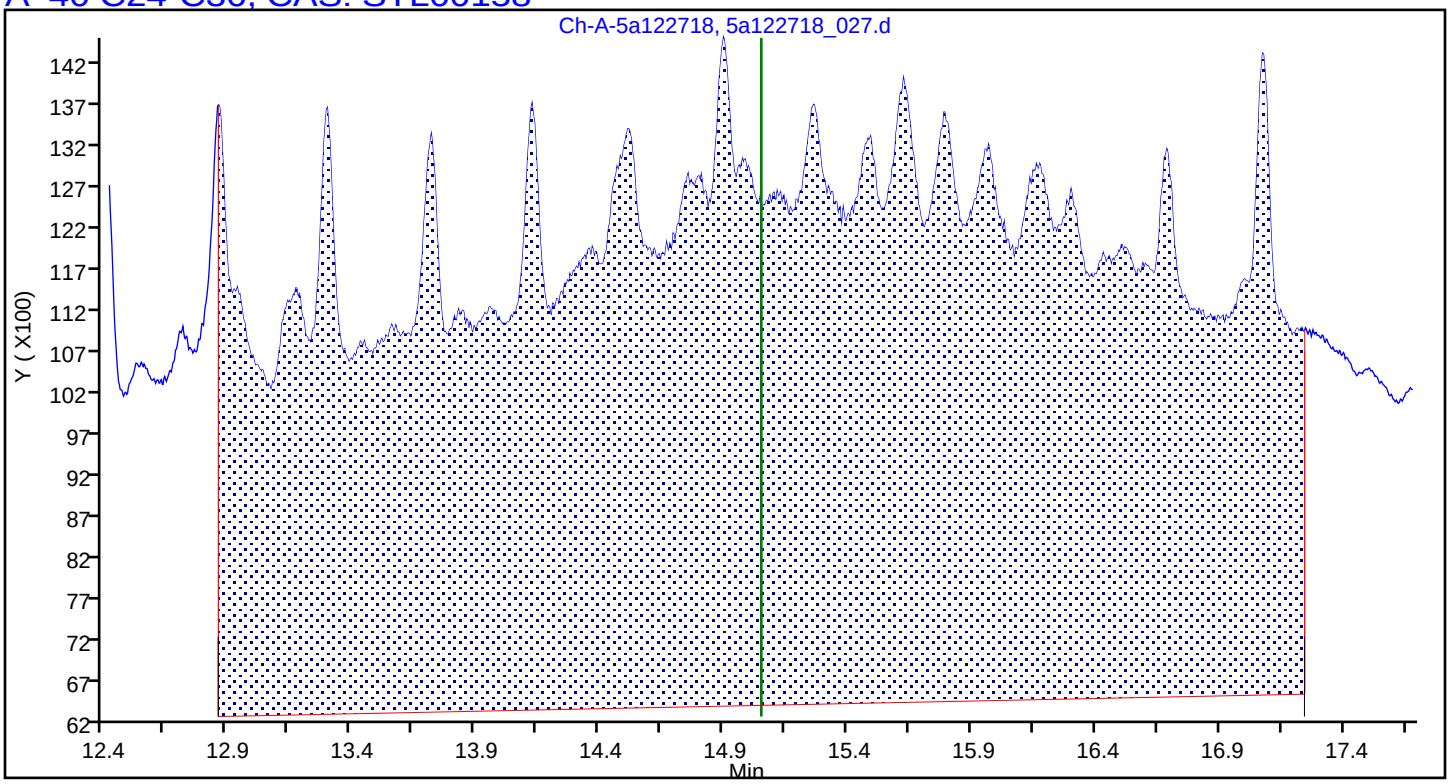


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TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_027.d				
Injection Date:	27-Dec-2018 23:07:45	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-5-A	Lab Sample ID:	720-90479-5		
Client ID:	DG-AU3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

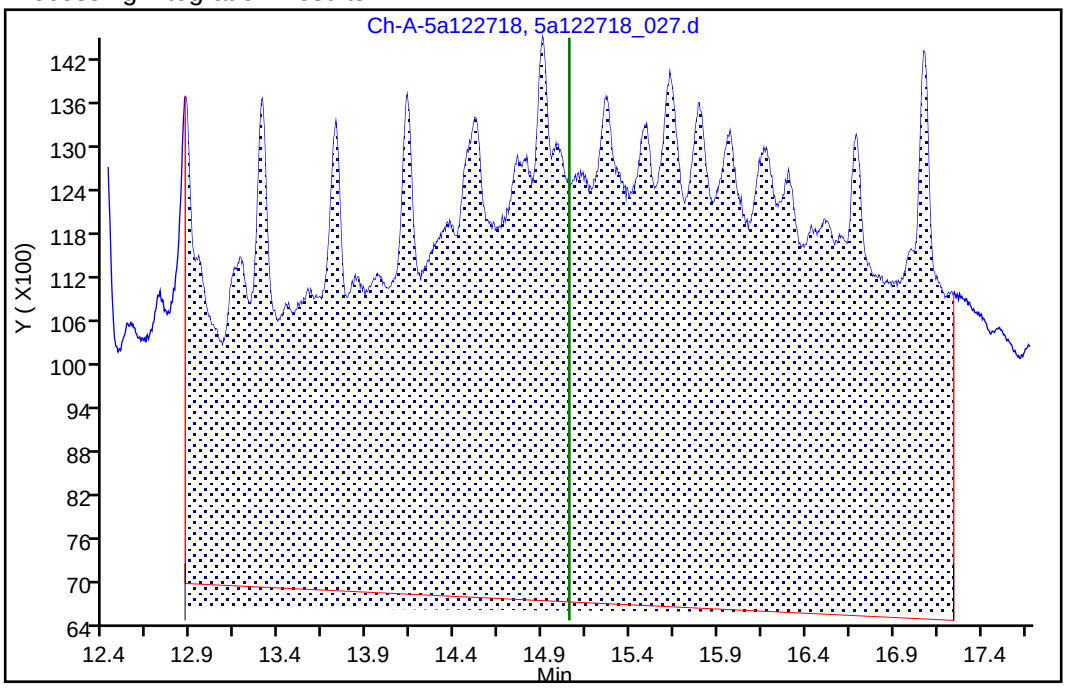
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Injection Date:	27-Dec-2018 23:07:45	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-5-A	Lab Sample ID:	720-90479-5		
Client ID:	DG-AU3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.052, CAS: STL00158

Signal: 1

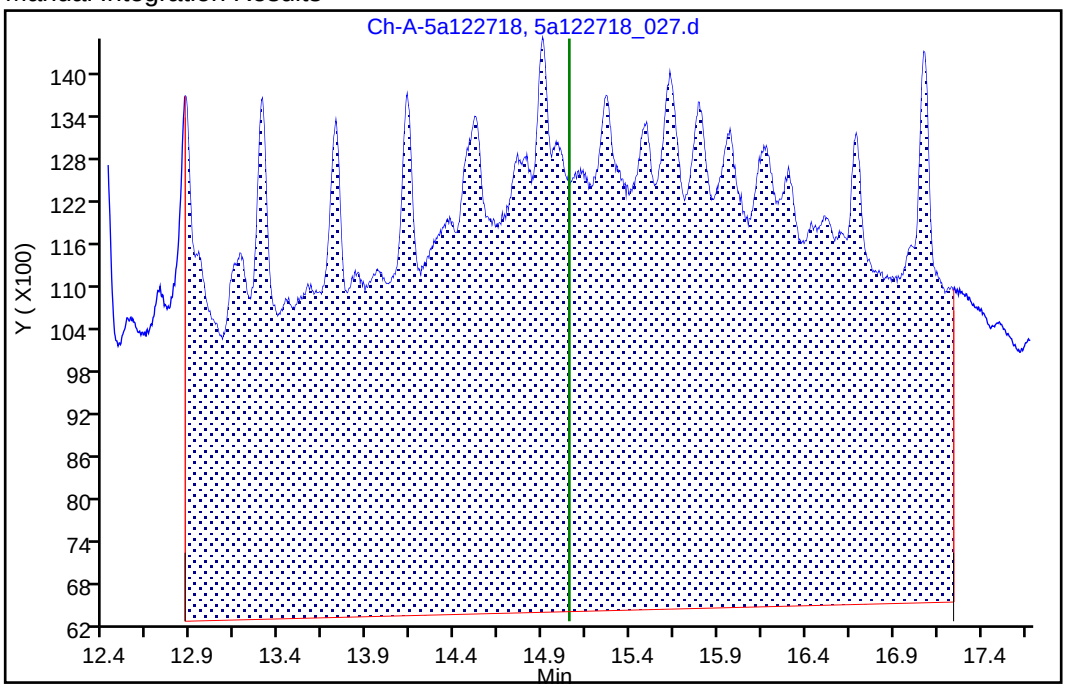
Processing Integration Results

RT: 15.05
Response: 6934681
Amount: 1138.3043



Manual Integration Results

RT: 15.05
Response: 7323854
Amount: 1202.1857



Reviewer: hayashid, 28-Dec-2018 07:51:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

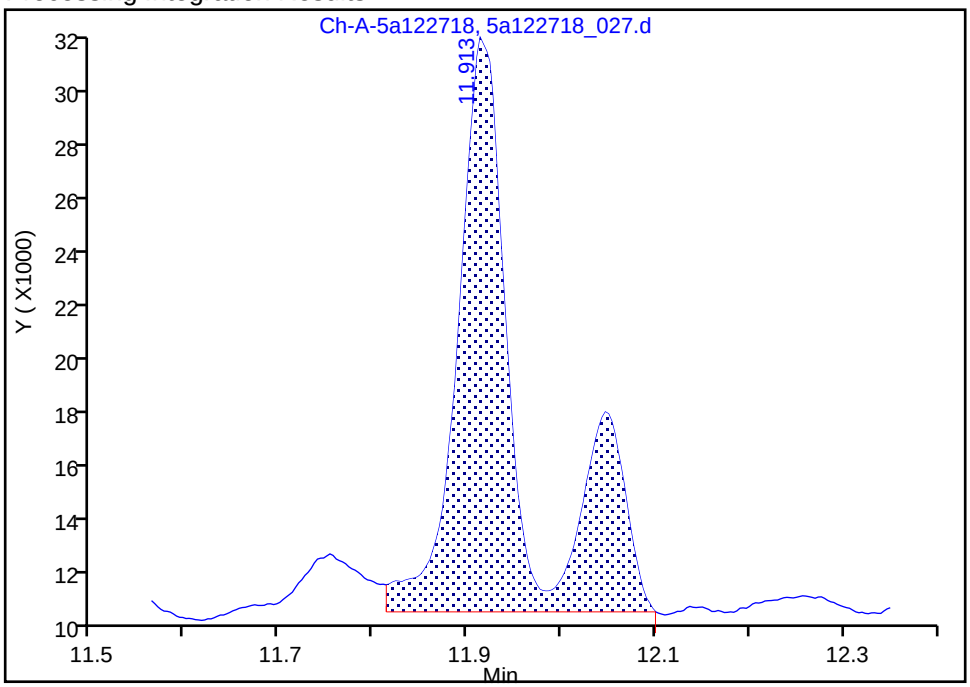
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_027.d				
Injection Date:	27-Dec-2018 23:07:45	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-5-A	Lab Sample ID:	720-90479-5		
Client ID:	DG-AU3S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

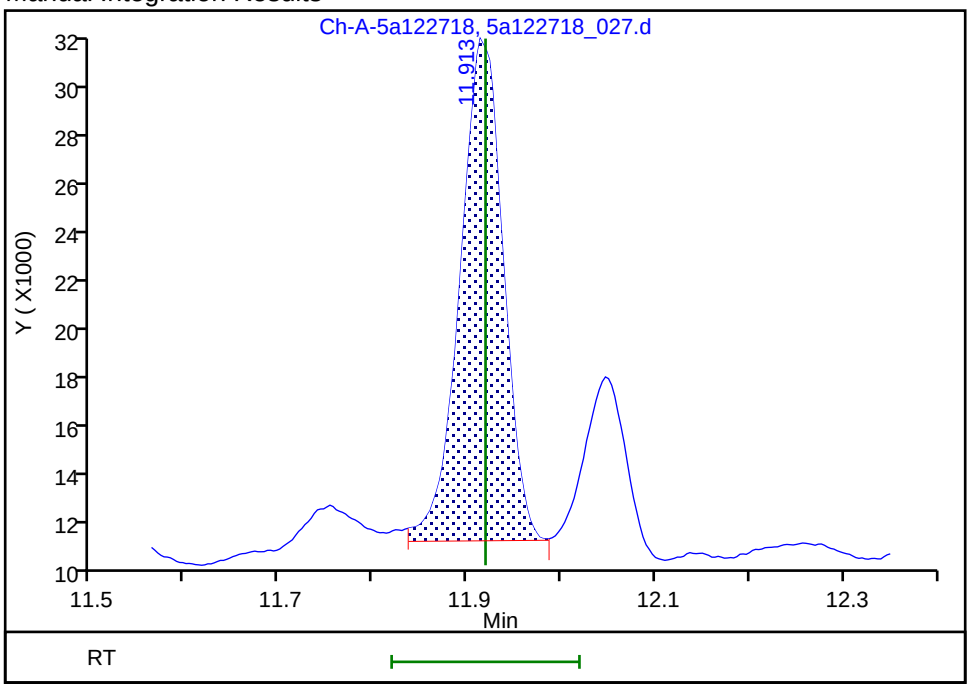
Processing Integration Results

RT: 11.91
Area: 474836
Amount: 39.818821
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 321536
Amount: 26.963382
Amount Units: mg/L



Reviewer: hayashid, 28-Dec-2018 07:51:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_028.d
Lims ID: 720-90479-F-6-A
Client ID: DG-AX5S-0.5-1
Sample Type: Client
Inject. Date: 27-Dec-2018 23:36:52 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 008 Name: 720-0055853-028
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m
Limit Group: DRO
Last Update: 28-Dec-2018 07:52:38 Calib Date: 27-Dec-2018 09:34:09
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0326

First Level Reviewer: hayashid Date: 28-Dec-2018 07:53:07

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.509	2.567	-0.058	1006	NC	
23 n-Decane	3.839	3.809	0.031	1722	NC	
A 1 C9-C13	4.550	(2.567-6.532)		22678	NC	
A 21 Stoddard Solvent	4.550	(2.567-6.532)		22678	NC	
A 57 C10-C12	4.768	(3.809-5.727)		13444	1.37	
24 Dodecane		5.727			ND	
A 3 C9 - C17	5.913	(2.567-9.259)		73140	6.03	
A 47 C9 - C18	6.209	(2.567-9.851)		196096	18.2	
A 60 C10-C16	6.215	(3.809-8.622)		68848	6.25	
A 15 Kerosene	6.479	(2.567-10.391)		228987	21.2	
A 25 C9-C19	6.479	(2.567-10.391)		228987	18.8	
26 C13	6.494	6.532	-0.038	4942	NC	
$ 27 n-Decanoic Acid (Surr)		7.170			ND	
A 59 C12-C16	7.175	(5.727-8.622)		60799	6.20	
A 62 C10-C20	7.368	(3.809-10.928)		419866	42.8	
A 28 C9-C24	7.713	(2.567-12.859)		1641963	167.5	
A 29 C9-C25	7.932	(2.567-13.296)		1982837	202.3	
A 54 C10-C23	8.107	(3.809-12.405)		1269571	129.5	
A 4 C10-C24	8.334	(3.809-12.859)		1637671	167.1	
A 16 C10-C25	8.552	(3.809-13.296)		1978545	201.9	
45 Hexadecane	8.553	8.622	-0.069	8565	NC	
A 14 C10-C26	8.763	(3.809-13.717)		2092142	213.5	
A 67 C12-C22	8.830	(5.727-11.933)		1178943	120.3	
A 12 Unknown Hydrocarbons	9.162	(3.809-14.515)		3442078	NC	
A 32 C10-C28	9.162	(3.809-14.515)		3442078	351.2	
A 5 Diesel	9.162	(3.809-14.515)		3442078	351.2	
A 30 C13-C22	9.232	(6.532-11.933)		1173548	119.7	
44 Heptadecane	9.269	9.259	0.010	28650	NC	
A 31 C12-C24	9.293	(5.727-12.859)		1629622	166.3	
49 n-Octadecane		9.851			ND	
A 9 Crude Oil Range Organics (	9.906	(2.567-17.246)		7960176	NC	
A 52 Mineral oil	9.906	(2.567-17.246)		7960176	710.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.906	(2.567-17.246)		7569850	NC	
33 C19		10.391			ND	
A 64 C13-C28	10.523	(6.532-14.515)		3428634	349.8	
A 17 C10-C36	10.527	(3.809-17.246)		7565558	771.9	
A 13 C9-C40	10.688	(2.567-18.808)		9643608	1185.6	
A 68 Crude Oil Range Organics (	10.688	(2.567-18.808)		9643608	NC	
A 58 C16-C24	10.741	(8.622-12.859)		1577388	160.9	
61 icosane		10.928			ND	
A 6 C10-C40	11.308	(3.809-18.808)		9637730	1185.2	
$ 34 p-Terphenyl	11.913	11.919	-0.006	333241	27.9	M
35 n-Docosane		11.933			ND	
A 18 C12-C40	12.268	(5.727-18.808)		9618446	1183.1	
36 Tricosane		12.405			ND	
A 66 C13-C40	12.670	(6.532-18.808)		9605113	1181.6	
37 n-Tetracosane	12.859	12.859	0.000	368100	NC	
A 2 C16-C36 ORO	12.934	(8.622-17.246)		7831949	1031.9	
38 C25	13.340	13.296	0.044	113597	NC	
A 19 C16-C40	13.715	(8.622-18.808)		9515381	1171.0	
46 n-Hexacosane		13.717			ND	
A 20 C19-C36	13.818	(10.391-17.246)		7146151	828.2	
A 55 C23-C32	14.184	(12.405-15.963)		4429638	931.5	
39 n-Octacosane	14.461	14.515	-0.054	645257	NC	
65 C29		14.895			ND	
A 7 Motor Oil	15.052	(12.859-17.246)		5849127	960.1	
A 40 C24-C36	15.052	(12.859-17.246)		5849127	960.1	
A 50 C25-C36	15.271	(13.296-17.246)		5415359	936.0	
A 10 C22-C40	15.371	(11.933-18.808)		7661600	916.5	
A 41 C23-C40	15.607	(12.405-18.808)		7700924	939.0	
A 8 C24-C40	15.834	(12.859-18.808)		7431939	934.2	
56 Dotriacontane	15.958	15.963	-0.005	587346	NC	
A 51 C28-C40	16.662	(14.515-18.808)		5728249	979.5	
A 63 C29-C40	16.852	(14.895-18.808)		5063264	958.6	
42 n-Hexatriacontane	17.181	17.246	-0.065	780834	NC	
43 C40		18.808			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

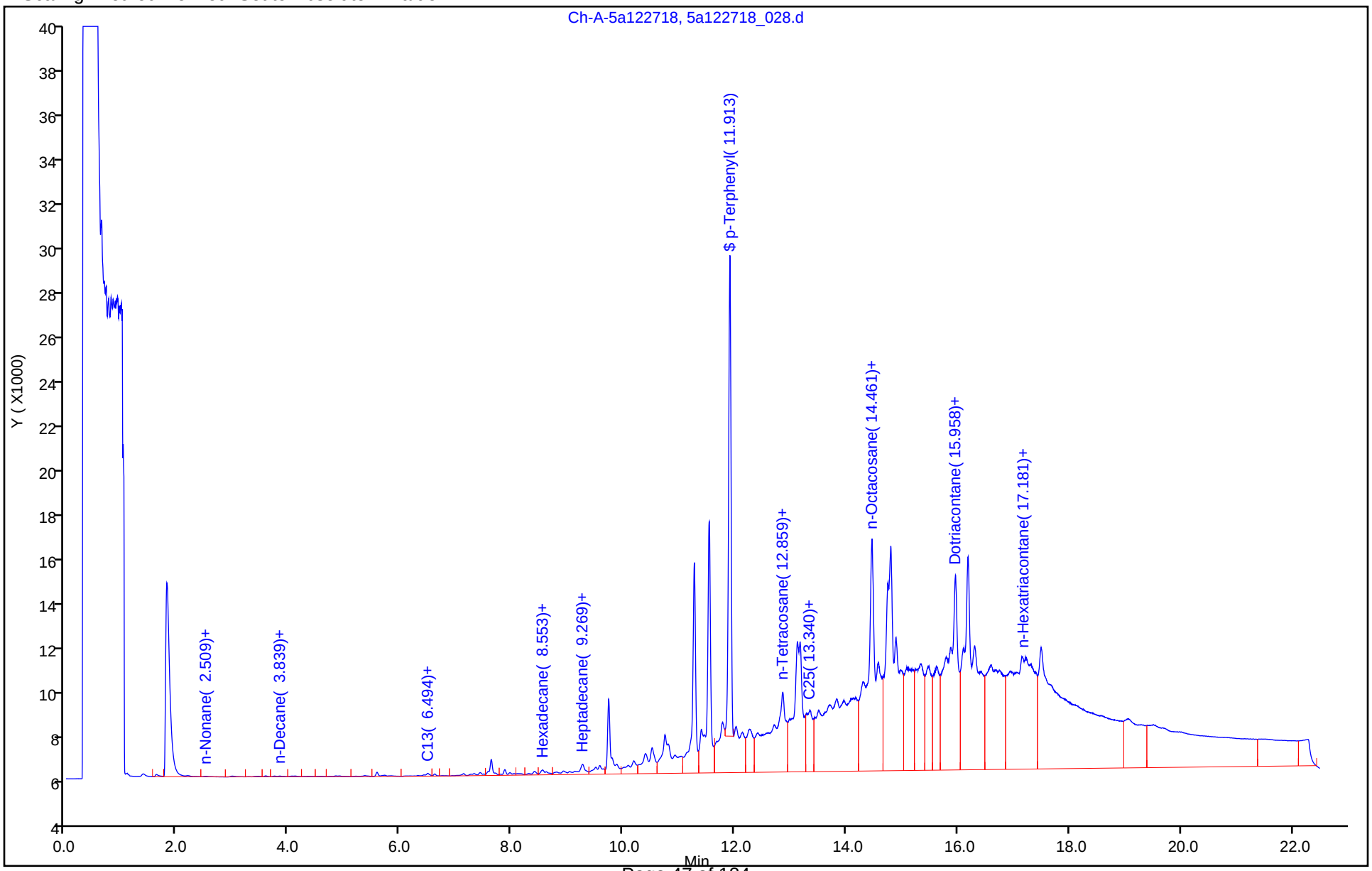
Report Date: 28-Dec-2018 07:53:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_028.d

Injection Date:	27-Dec-2018 23:36:52	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-6-A	Lab Sample ID:	720-90479-6	Worklist Smp#:	28
Client ID:	DG-AX5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_028.d				
Lims ID:	720-90479-F-6-A				
Client ID:	DG-AX5S-0.5-1				
Sample Type:	Client				
Inject. Date:	27-Dec-2018 23:36:52	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 008 Name: 720-0055853-028				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	28-Dec-2018 07:52:38	Calib Date:	27-Dec-2018 09:34:09		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0326				

First Level Reviewer: hayashid Date: 28-Dec-2018 07:53:07

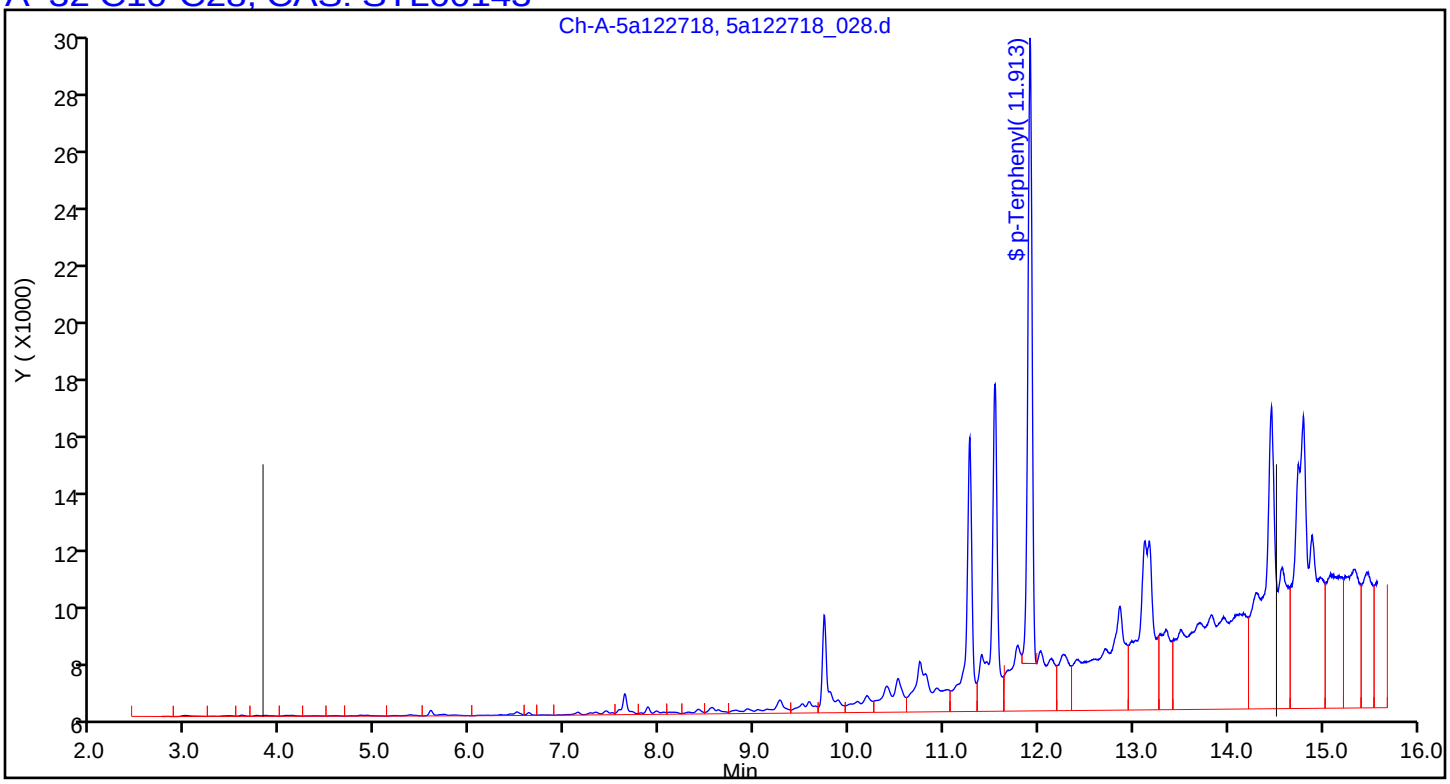
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.9	111.78

Report Date: 28-Dec-2018 07:53:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_028.d				
Injection Date:	27-Dec-2018 23:36:52	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-6-A	Lab Sample ID:	720-90479-6		
Client ID:	DG-AX5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

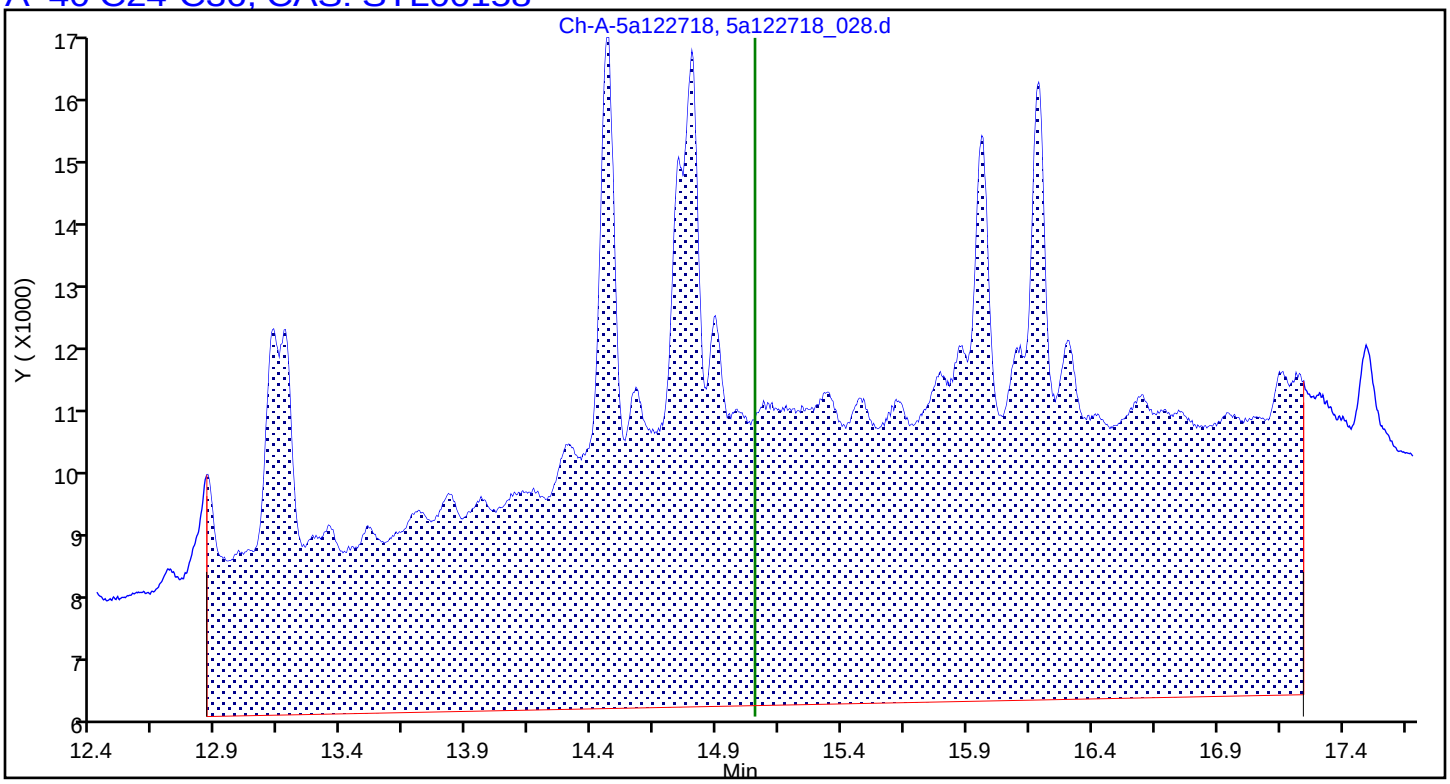


Report Date: 28-Dec-2018 07:53:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_028.d				
Injection Date:	27-Dec-2018 23:36:52	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-6-A	Lab Sample ID:	720-90479-6		
Client ID:	DG-AX5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

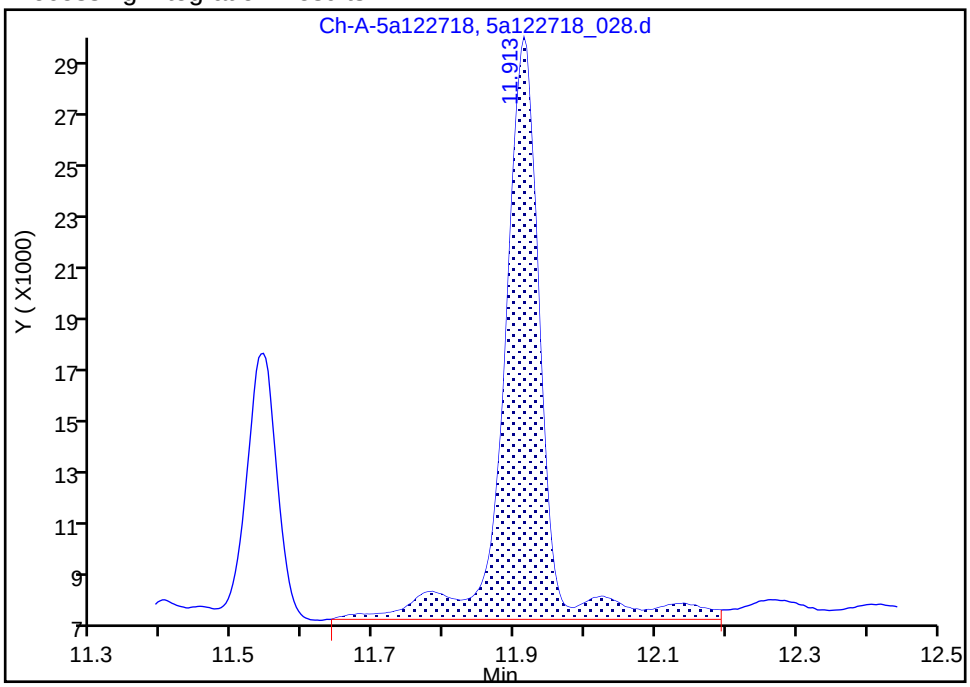
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181227-55853.b\5a122718_028.d				
Injection Date:	27-Dec-2018 23:36:52	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-6-A	Lab Sample ID:	720-90479-6		
Client ID:	DG-AX5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

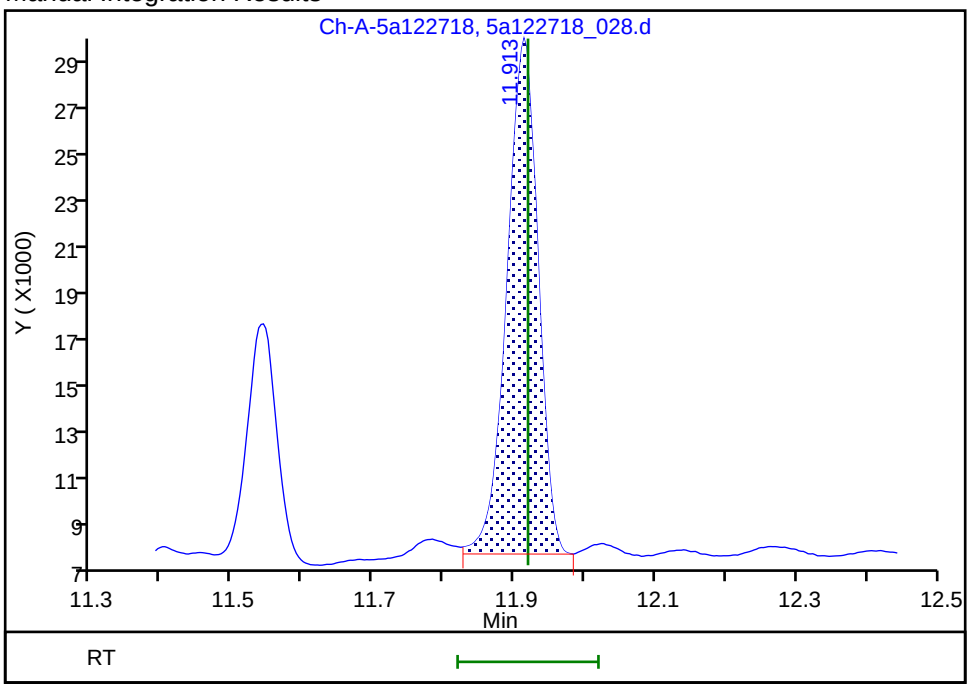
Processing Integration Results

RT: 11.91
Area: 414996
Amount: 34.800755
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 333241
Amount: 27.944940
Amount Units: mg/L



Reviewer: hayashid, 28-Dec-2018 07:52:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_007.d
Lims ID: 720-90479-F-7-A
Client ID: DG-AX5S-3.5-4
Sample Type: Client
Inject. Date: 31-Dec-2018 12:02:05 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0055894-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:33:52 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:33:51

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.570			ND	
	23 n-Decane	3.833	3.808	0.025	6059	NC	M
A	1 C9-C13	4.549	(2.570-6.529)		56641	NC	M
A	21 Stoddard Solvent	4.549	(2.570-6.529)		56641	NC	M
A	57 C10-C12	4.766	(3.808-5.725)		23285	2.38	M
	24 Dodecane	5.717	5.725	-0.007	6051	NC	M
A	3 C9 - C17	5.914	(2.570-9.258)		90138	7.44	M
A	47 C9 - C18	6.210	(2.570-9.851)		112660	10.5	M
A	60 C10-C16	6.214	(3.808-8.619)		53148	4.82	M
A	15 Kerosene	6.480	(2.570-10.390)		115638	10.7	M
A	25 C9-C19	6.480	(2.570-10.390)		115638	9.47	M
	26 C13	6.537	6.529	0.008	18703	NC	M
$	27 n-Decanoic Acid (Surr)		7.161			ND	
A	59 C12-C16	7.172	(5.725-8.619)		35914	3.66	M
A	62 C10-C20	7.367	(3.808-10.926)		115747	11.8	M
A	28 C9-C24	7.714	(2.570-12.858)		255898	26.1	M
A	29 C9-C25	7.932	(2.570-13.295)		323861	33.0	M
A	54 C10-C23	8.106	(3.808-12.404)		223605	22.8	M
A	4 C10-C24	8.333	(3.808-12.858)		223605	22.8	M
A	16 C10-C25	8.551	(3.808-13.295)		291568	29.7	M
	45 Hexadecane	8.543	8.619	-0.076	2177	NC	M
A	14 C10-C26	8.762	(3.808-13.716)		291568	29.7	M
A	67 C12-C22	8.828	(5.725-11.931)		206371	21.1	M
A	12 Unknown Hydrocarbons	9.162	(3.808-14.515)		381185	NC	M
A	32 C10-C28	9.162	(3.808-14.515)		381185	38.9	M
A	5 Diesel	9.162	(3.808-14.515)		381185	38.9	M
A	30 C13-C22	9.230	(6.529-11.931)		199257	20.3	M
	44 Heptadecane	9.173	9.258	-0.085	2389	NC	M
A	31 C12-C24	9.291	(5.725-12.858)		206371	21.1	M
	49 n-Octadecane		9.851			ND	
A	9 Crude Oil Range Organics (	9.909	(2.570-17.247)		910844	NC	
A	52 Mineral oil	9.909	(2.570-17.247)		910844	81.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.909	(2.570-17.247)		755282	NC	M
33 C19		10.390			ND	
A 64 C13-C28	10.522	(6.529-14.515)		356837	36.4	M
A 17 C10-C36	10.528	(3.808-17.247)		722989	73.8	M
A 13 C9-C40	10.691	(2.570-18.812)		1180507	107.0	
A 68 Crude Oil Range Organics (	10.691	(2.570-18.812)		1180507	NC	
A 58 C16-C24	10.739	(8.619-12.858)		172634	17.6	M
61 icosane		10.926			ND	
A 6 C10-C40	11.310	(3.808-18.812)		1165805	105.6	
$ 34 p-Terphenyl	11.913	11.919	-0.006	269387	22.6	M
35 n-Docosane		11.931			ND	
A 18 C12-C40	12.268	(5.725-18.812)		1159424	105.4	
36 Tricosane		12.404			ND	
A 66 C13-C40	12.671	(6.529-18.812)		1150620	104.4	
37 n-Tetracosane	12.867	12.858	0.009	19429	NC	M
A 2 C16-C36 ORO	12.933	(8.619-17.247)		849774	112.0	
38 C25		13.295			ND	
A 19 C16-C40	13.716	(8.619-18.812)		1119437	100.8	
46 n-Hexacosane		13.716			ND	
A 20 C19-C36	13.818	(10.390-17.247)		575762	66.7	
A 55 C23-C32	14.183	(12.404-15.963)		44940	9.45	
39 n-Octacosane	14.457	14.515	-0.058	48704	NC	M
65 C29		14.895			ND	
A 7 Motor Oil	15.052	(12.858-17.247)		454563	74.6	
A 40 C24-C36	15.052	(12.858-17.247)		454563	74.6	
A 50 C25-C36	15.271	(13.295-17.247)		416436	72.0	
A 10 C22-C40	15.372	(11.931-18.812)		495411	59.3	
A 41 C23-C40	15.608	(12.404-18.812)		332909	40.6	
A 8 C24-C40	15.835	(12.858-18.812)		673701	84.7	
56 Dotriacontane	15.967	15.963	0.004	38846	NC	M
A 51 C28-C40	16.664	(14.515-18.812)		547334	66.0	
A 63 C29-C40	16.853	(14.895-18.812)		496448	63.0	
42 n-Hexatriacontane	17.160	17.247	-0.087	54614	NC	M
43 C40		18.812			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

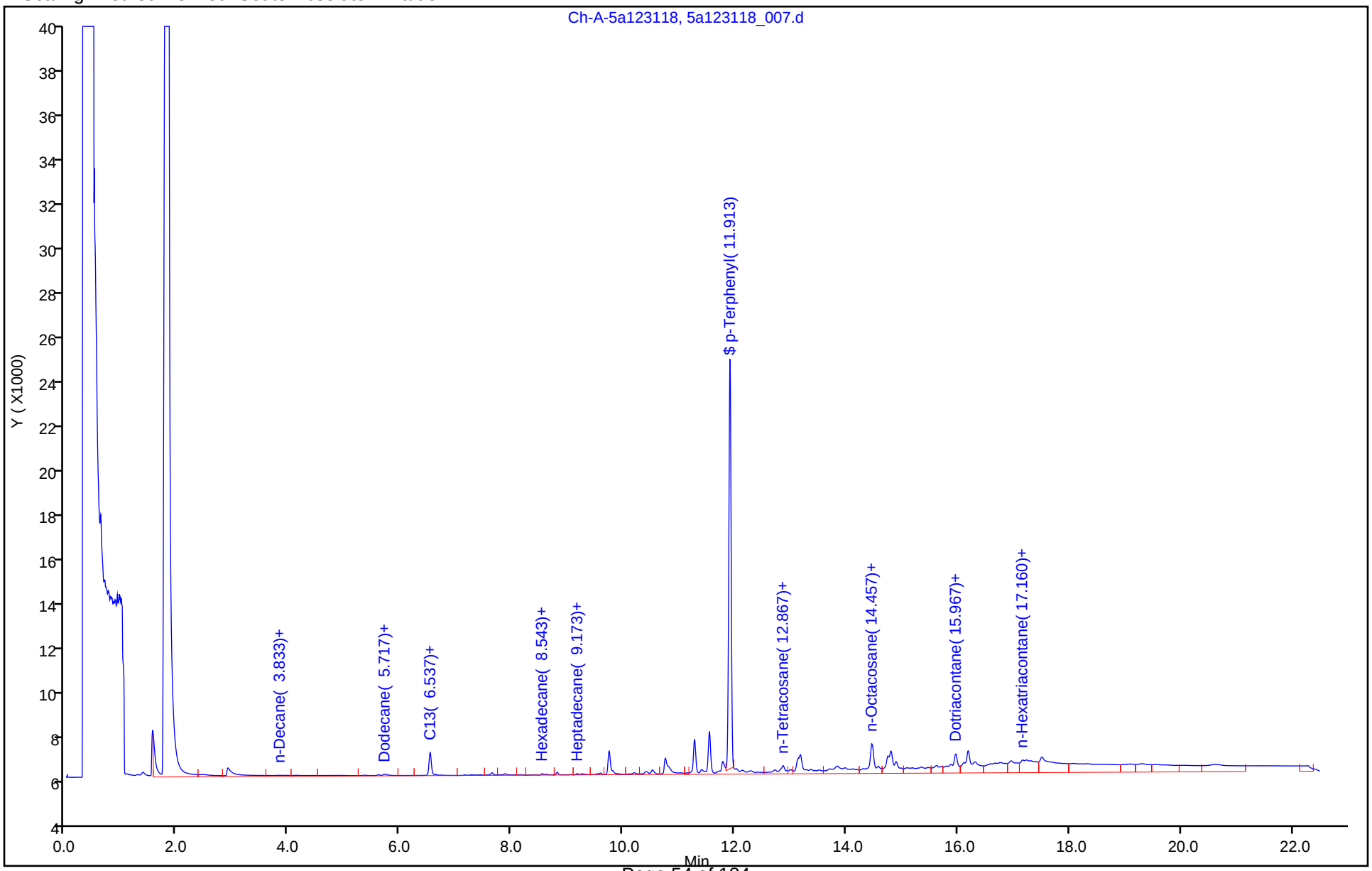
Report Date: 02-Jan-2019 10:33:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_007.d

Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-7-A	Lab Sample ID:	720-90479-7	Worklist Smp#:	7
Client ID:	DG-AX5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_007.d				
Lims ID:	720-90479-F-7-A				
Client ID:	DG-AX5S-3.5-4				
Sample Type:	Client				
Inject. Date:	31-Dec-2018 12:02:05	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0055894-007				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	02-Jan-2019 10:33:52	Calib Date:	31-Dec-2018 09:13:06		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0316				

First Level Reviewer: luj Date: 02-Jan-2019 10:33:51

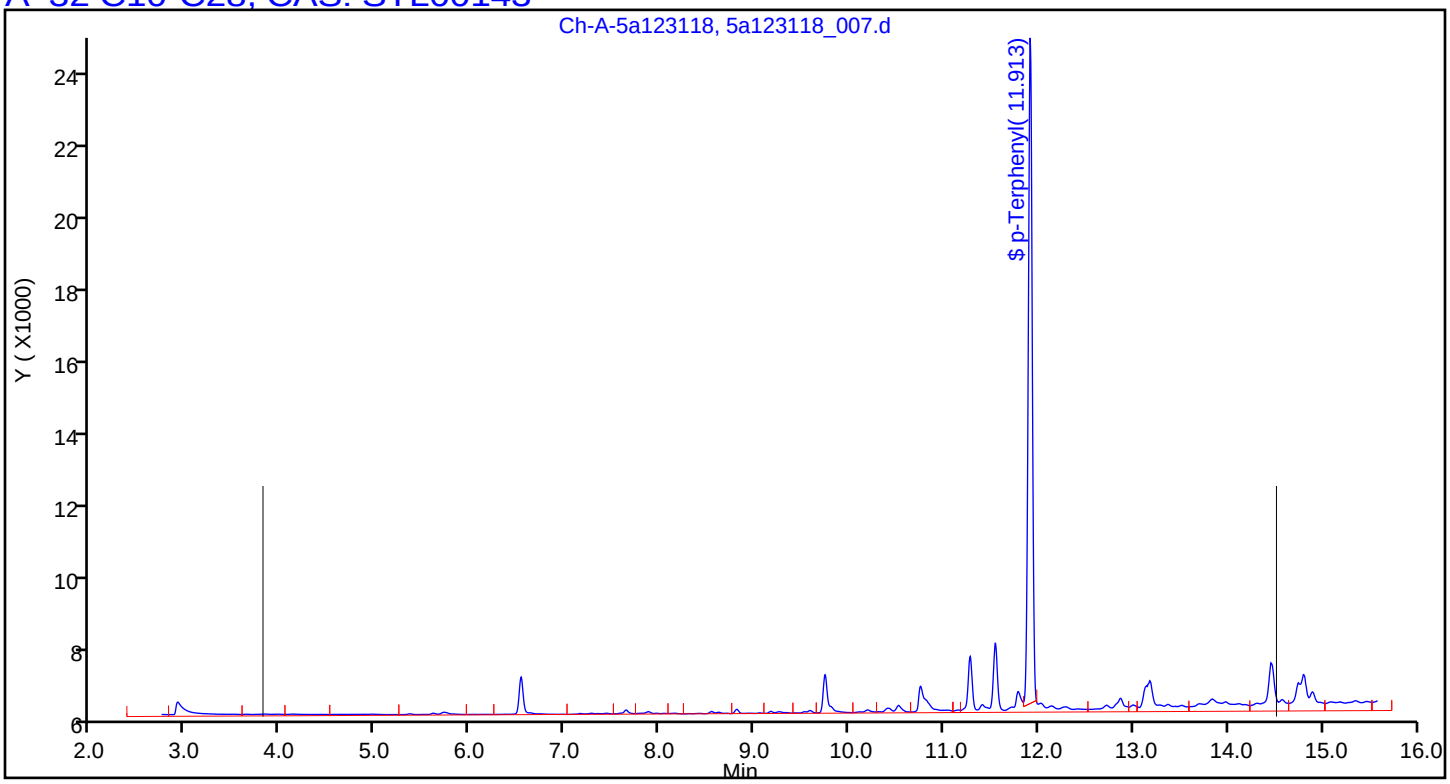
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.6	90.36

Report Date: 02-Jan-2019 10:33:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_007.d				
Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-7-A	Lab Sample ID:	720-90479-7		
Client ID:	DG-AX5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

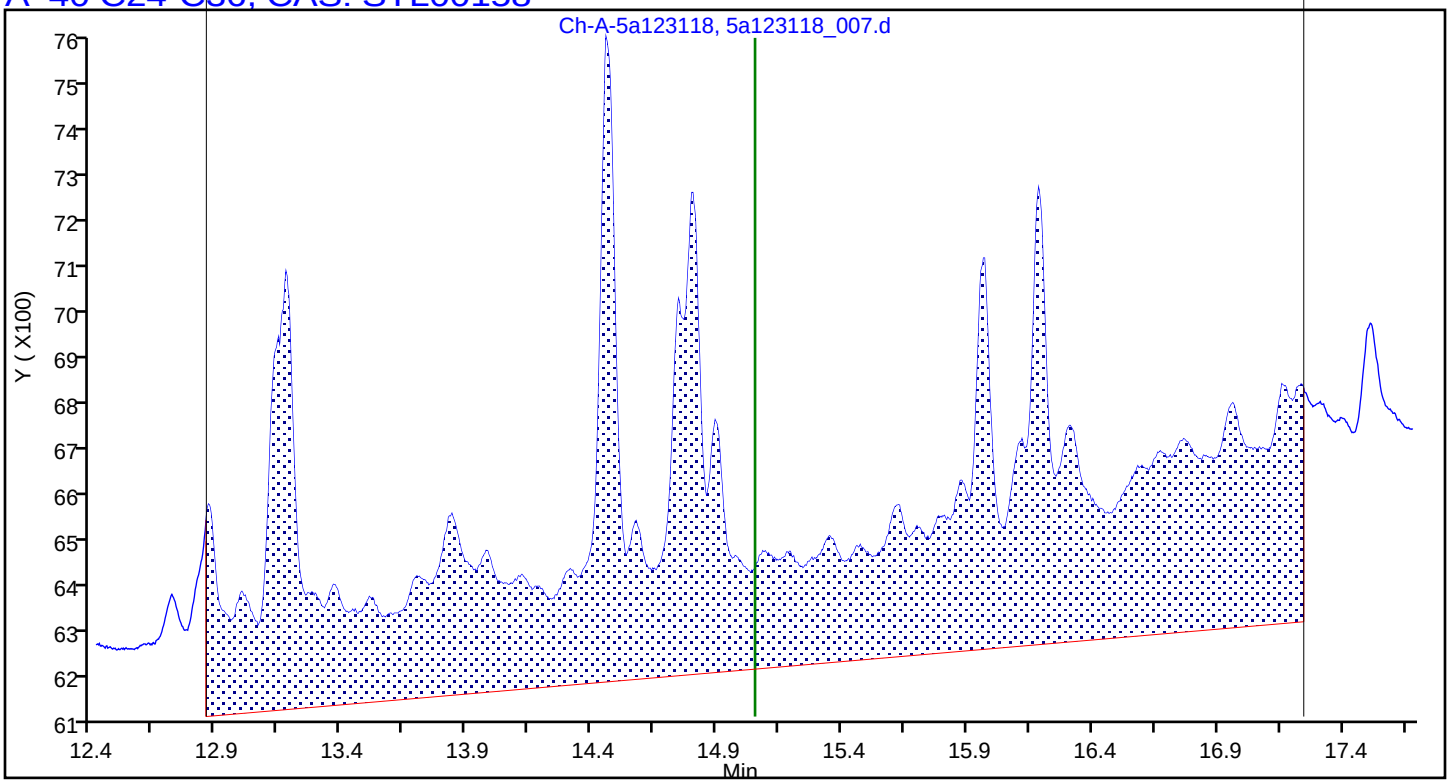


Report Date: 02-Jan-2019 10:33:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_007.d				
Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-7-A	Lab Sample ID:	720-90479-7		
Client ID:	DG-AX5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

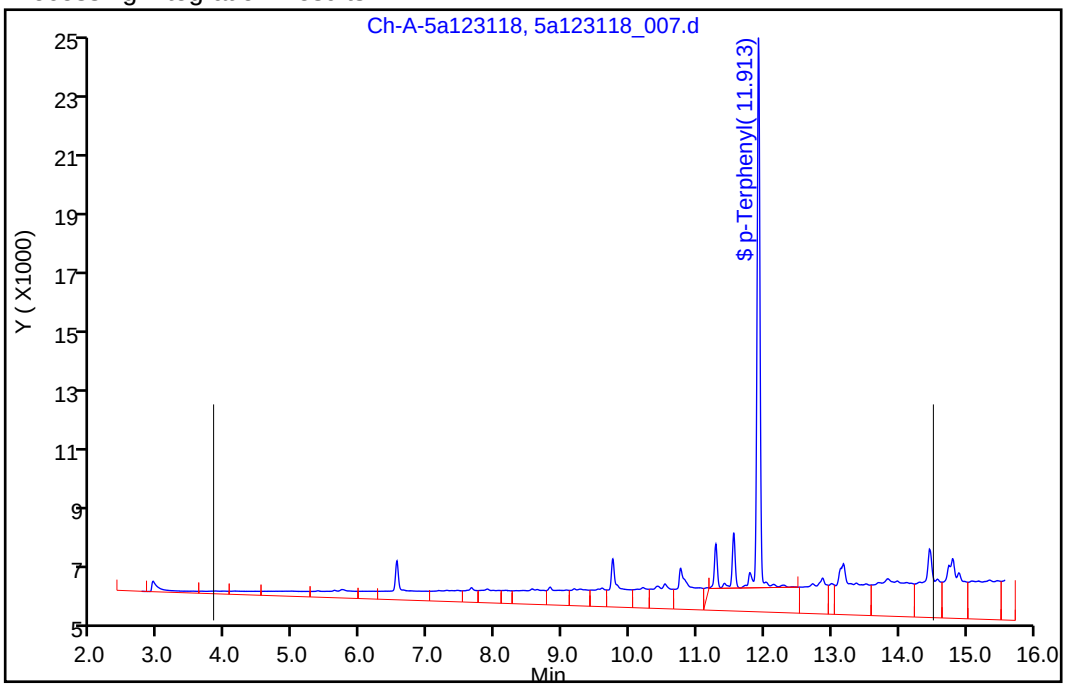
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_007.d				
Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-7-A	Lab Sample ID:	720-90479-7		
Client ID:	DG-AX5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

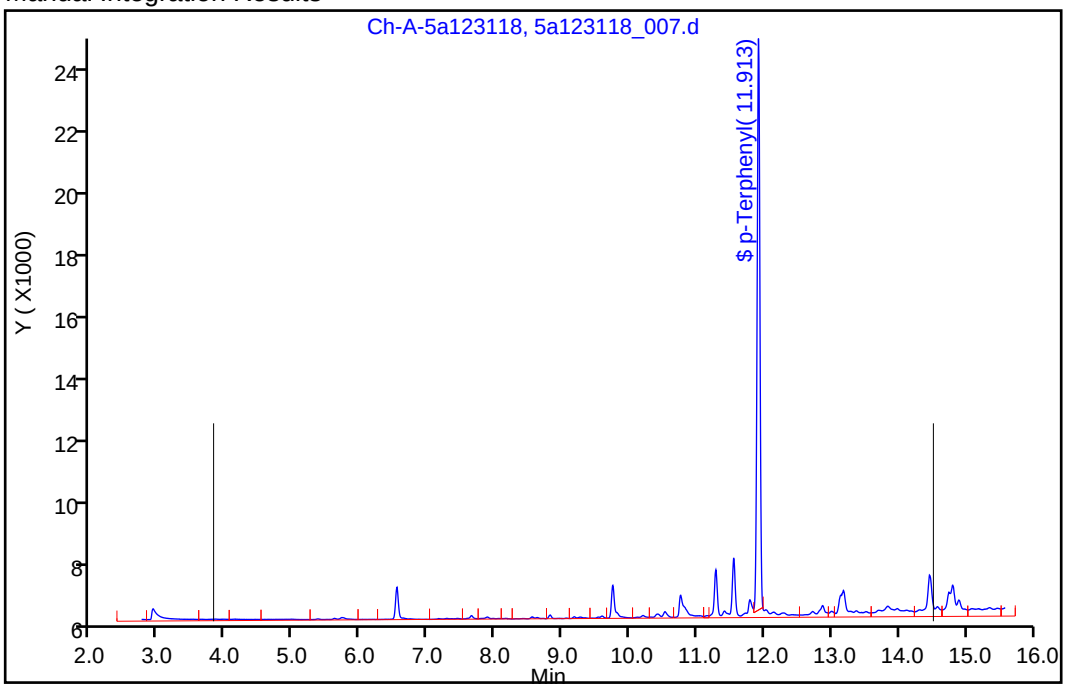
Processing Integration Results

RT: 9.16
Response: 2004357
Amount: 204.5051



Manual Integration Results

RT: 9.16
Response: 381185
Amount: 38.892408



Reviewer: luj, 02-Jan-2019 10:33:05

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

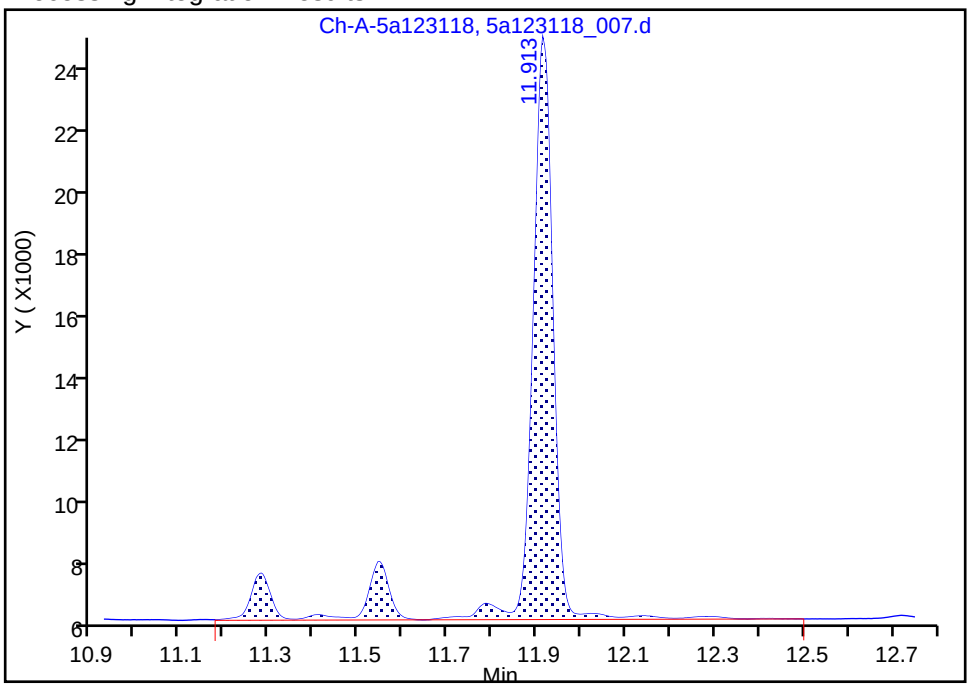
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_007.d				
Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-7-A	Lab Sample ID:	720-90479-7		
Client ID:	DG-AX5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

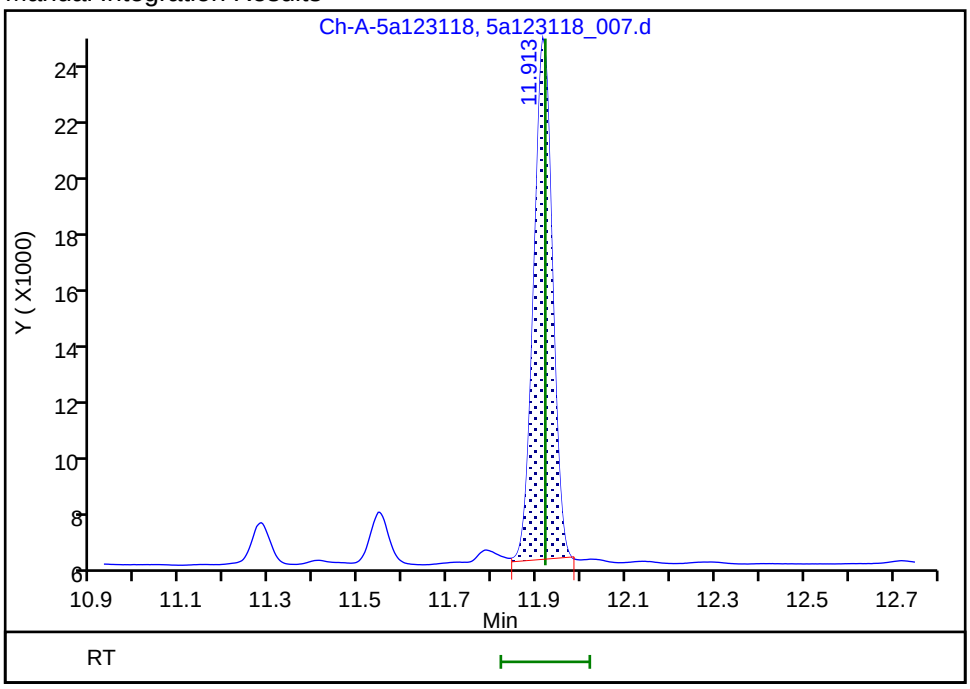
Processing Integration Results

RT: 11.91
Area: 352381
Amount: 29.549983
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 269387
Amount: 22.590268
Amount Units: mg/L



Reviewer: luj, 02-Jan-2019 10:33:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_009.d
Lims ID: 720-90479-F-8-A
Client ID: DG-AV5S-0.5-1
Sample Type: Client
Inject. Date: 31-Dec-2018 12:59:47 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 136 Name: 720-0055895-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\DRO5B.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:53:10 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:53:10

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.706	2.688	0.018	922	NC	
	23 n-Decane	3.908	3.901	0.007	1449	NC	
A	1 C9-C13	4.641	(2.688-6.593)		26047	2.06	
A	21 Stoddard Solvent	4.641	(2.688-6.593)		26047	2.29	
A	57 C10-C12	4.848	(3.901-5.794)		10401	1.06	
	24 Dodecane	5.794	5.794	0.000	712	NC	
A	3 C9 - C17	5.994	(2.688-9.301)		211250	15.0	
A	47 C9 - C18	6.282	(2.688-9.875)		354582	31.6	
A	60 C10-C16	6.285	(3.901-8.670)		107630	8.63	
A	15 Kerosene	6.559	(2.688-10.431)		539919	48.0	
A	25 C9-C19	6.559	(2.688-10.431)		539919	38.1	
	26 C13	6.584	6.593	-0.009	2970	NC	
$	27 n-Decanoic Acid (Surr)		7.209			ND	U
A	59 C12-C16	7.232	(5.794-8.670)		97941	9.98	
A	62 C10-C20	7.433	(3.901-10.965)		808135	82.3	
A	28 C9-C24	7.787	(2.688-12.886)		2326049	236.9	
A	29 C9-C25	8.004	(2.688-13.320)		2850578	290.3	
A	54 C10-C23	8.168	(3.901-12.434)		1832555	186.6	
A	4 C10-C24	8.393	(3.901-12.886)		2315800	235.9	
A	16 C10-C25	8.611	(3.901-13.320)		2840329	289.3	
	45 Hexadecane	8.668	8.670	-0.002	24544	NC	
A	14 C10-C26	8.820	(3.901-13.739)		3547009	361.3	
A	67 C12-C22	8.880	(5.794-11.965)		1404102	143.0	
A	5 Diesel	9.217	(3.901-14.534)		4617573	470.3	
A	32 C10-C28	9.217	(3.901-14.534)		4617573	470.3	
A	12 Unknown Hydrocarbons	9.217	(3.901-14.534)		4617573	NC	
A	30 C13-C22	9.279	(6.593-11.965)		1400963	142.7	
	44 Heptadecane	9.297	9.301	-0.004	46769	NC	
A	31 C12-C24	9.340	(5.794-12.886)		2306111	234.9	
	49 n-Octadecane	9.871	9.875	-0.004	66185	NC	
A	52 Mineral oil	9.969	(2.688-17.249)		9560174	880.0	
A	9 Crude Oil Range Organics (	9.969	(2.688-17.249)		9560174	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.969	(2.688-17.249)		11600008	NC	
33 C19	10.429	10.431	-0.002	106051	NC	
A 64 C13-C28	10.563	(6.593-14.534)		4604745	469.0	
A 17 C10-C36	10.575	(3.901-17.249)		11589759	1180.4	
A 13 C9-C40	10.747	(2.688-18.805)		11092171	1097.1	
A 68 Crude Oil Range Organics (	10.747	(2.688-18.805)		11092171	NC	
A 58 C16-C24	10.778	(8.670-12.886)		2232714	227.4	
61 icosane	10.964	10.965	-0.001	83109	NC	
A 6 C10-C40	11.353	(3.901-18.805)		11079792	1097.3	
$ 34 p-Terphenyl	11.933	11.935	-0.002	102418	8.13	
35 n-Docosane		11.965			ND	
A 18 C12-C40	12.300	(5.794-18.805)		11059367	1098.7	
36 Tricosane	12.440	12.434	0.006	267090	NC	
A 66 C13-C40	12.699	(6.593-18.805)		10818343	1090.8	
37 n-Tetracosane	12.890	12.886	0.004	187099	NC	
A 2 C16-C36 ORO	12.959	(8.670-17.249)		7450743	1009.8	
38 C25	13.328	13.320	0.008	243924	NC	
A 19 C16-C40	13.737	(8.670-18.805)		10925578	1091.5	
46 n-Hexacosane	13.737	13.739	-0.002	212757	NC	
A 20 C19-C36	13.840	(10.431-17.249)		7926084	1016.5	
A 55 C23-C32	14.204	(12.434-15.973)		5092990	1182.4	
39 n-Octacosane	14.466	14.534	-0.068	246376	NC	
65 C29	14.915	14.911	0.004	213061	NC	
A 40 C24-C36	15.068	(12.886-17.249)		6540702	1043.7	
A 7 Motor Oil	15.068	(12.886-17.249)		6540702	1043.7	
A 50 C25-C36	15.285	(13.320-17.249)		6056379	1021.9	
A 10 C22-C40	15.385	(11.965-18.805)		8730954	985.0	
A 41 C23-C40	15.620	(12.434-18.805)		8401389	970.6	
A 8 C24-C40	15.846	(12.886-18.805)		7945675	949.6	
56 Dotriacontane	15.941	15.973	-0.032	210287	NC	
A 51 C28-C40	16.670	(14.534-18.805)		5806358	872.7	
A 63 C29-C40	16.858	(14.911-18.805)		5159886	846.3	
42 n-Hexatriacontane		17.249			ND	
43 C40		18.805			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

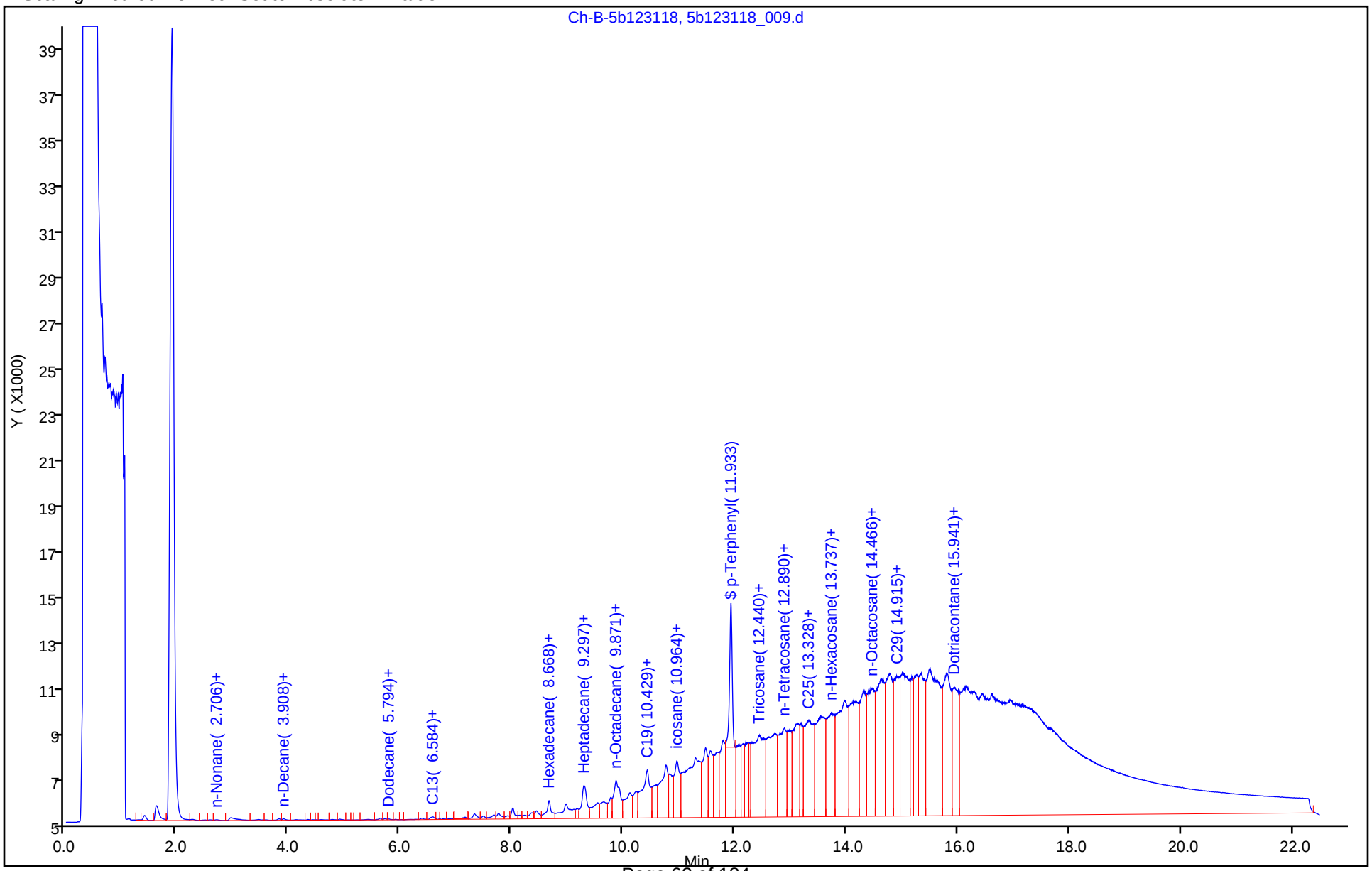
U - Marked Undetected

Report Date: 02-Jan-2019 10:53:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_009.d				
Injection Date:	31-Dec-2018 12:59:47	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-8-A	Lab Sample ID:	720-90479-8	Worklist Smp#:	9
Client ID:	DG-AV5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_009.d				
Lims ID:	720-90479-F-8-A				
Client ID:	DG-AV5S-0.5-1				
Sample Type:	Client				
Inject. Date:	31-Dec-2018 12:59:47	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 136 Name: 720-0055895-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	02-Jan-2019 10:53:10	Calib Date:	31-Dec-2018 09:13:06		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0316				

First Level Reviewer: luj Date: 02-Jan-2019 10:53:10

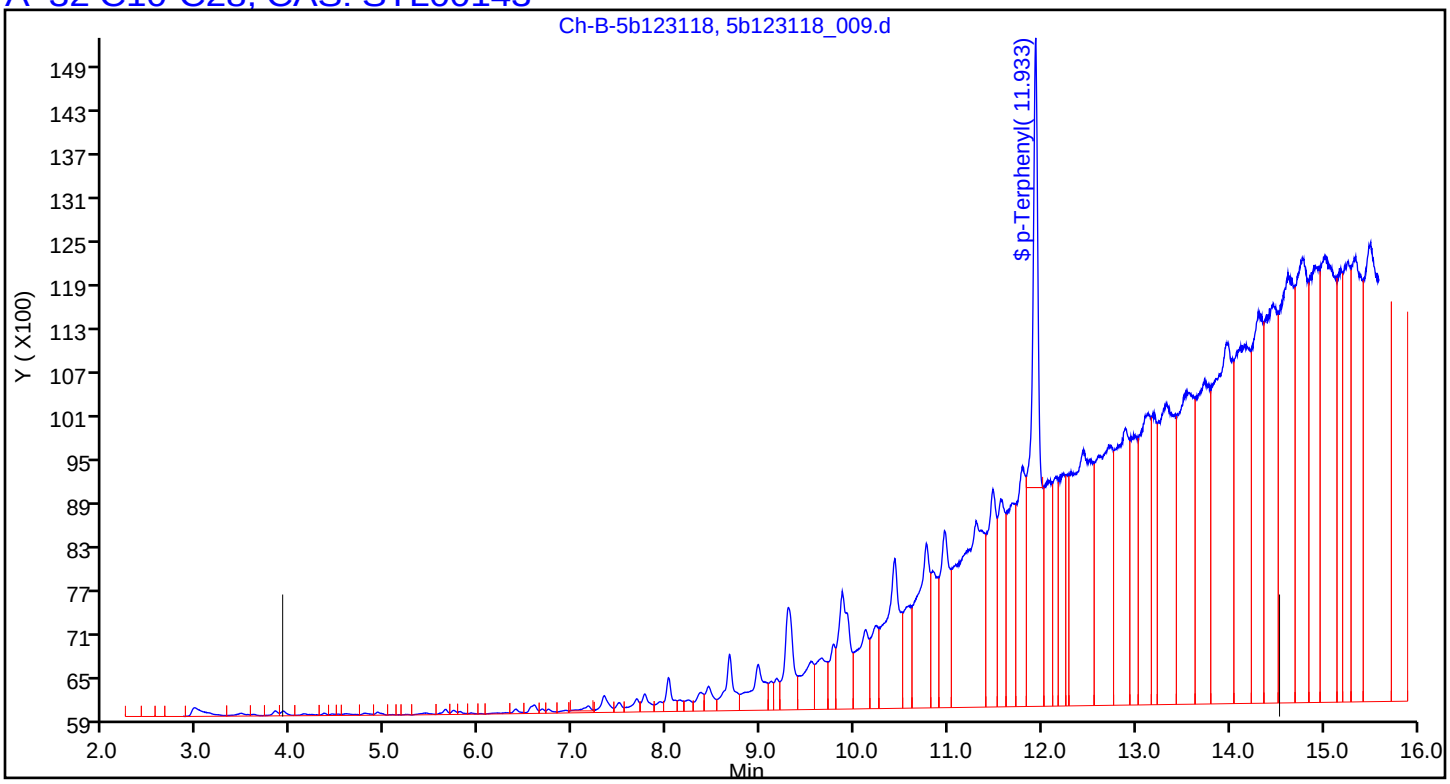
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	8.13	65.07

Report Date: 02-Jan-2019 10:53:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_009.d				
Injection Date:	31-Dec-2018 12:59:47	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-8-A	Lab Sample ID:	720-90479-8		
Client ID:	DG-AV5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

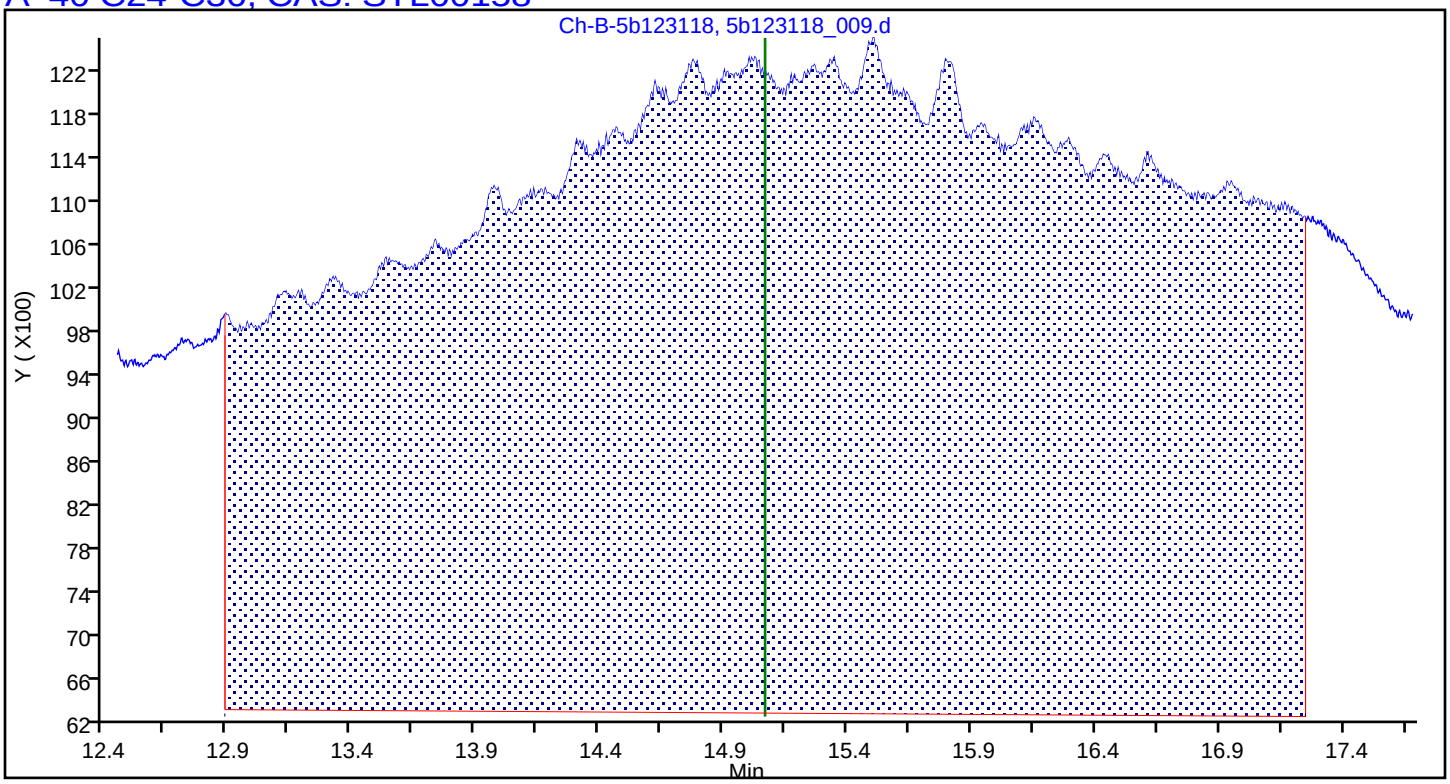


Report Date: 02-Jan-2019 10:53:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_009.d				
Injection Date:	31-Dec-2018 12:59:47	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-8-A	Lab Sample ID:	720-90479-8		
Client ID:	DG-AV5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\FID2000011.D
Lims ID: 720-90479-F-9-C
Client ID: DG-AV5S-3.5-4
Sample Type: Client
Inject. Date: 29-Dec-2018 17:12:05 ALS Bottle#: 61 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055886-011
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\DRO6_B.m
Limit Group: DRO
Last Update: 31-Dec-2018 11:50:09 Calib Date: 29-Dec-2018 13:58:02
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 31-Dec-2018 11:50:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		1.355			ND	
23 n-Decane		2.201			ND	
A 21 Stoddard Solvent	2.805	(1.355-4.255)		2994049	1.26	
A 1 C9-C13	2.805	(1.355-4.255)		2994049	NC	
A 57 C10-C12	2.923	(2.201-3.644)		1813305	0.9170	
24 Dodecane	3.649	3.644	0.005	68384	NC	
A 3 C9 - C17	3.831	(1.355-6.306)		5534534	1.93	M
A 60 C10-C16	4.019	(2.201-5.836)		3886396	1.52	M
A 47 C9 - C18	4.053	(1.355-6.752)		7219978	3.18	M
26 C13	4.345	4.255	0.090	349328	NC	
A 25 C9-C19	4.266	(1.355-7.177)		9552364	3.31	M
A 15 Kerosene	4.266	(1.355-7.177)		9552364	4.20	M
$ 27 n-Decanoic Acid (Surr)		4.604			ND	U
A 59 C12-C16	4.740	(3.644-5.836)		2073091	1.05	M
A 61 C10-C20	4.892	(2.201-7.583)		15189533	7.68	M
A 28 C9-C24	5.202	(1.355-9.050)		39757899	20.1	M
A 29 C9-C25	5.369	(1.355-9.383)		51088697	25.8	M
A 54 C10-C23	5.453	(2.201-8.705)		31854536	16.1	M
A 4 C10-C24	5.626	(2.201-9.050)		38912456	19.7	M
A 16 C10-C25	5.792	(2.201-9.383)		50243254	25.4	M
45 Hexadecane	5.835	5.836	-0.001	51662	NC	M
A 14 C10-C26	5.952	(2.201-9.703)		60492154	30.6	M
A 67 C12-C22	5.995	(3.644-8.346)		24222205	12.2	M
A 32 C10-C28	6.256	(2.201-10.311)		86261434	43.6	M
A 12 Unknown Hydrocarbons	6.256	(2.201-10.311)		86261434	NC	M
A 5 Diesel	6.256	(2.201-10.311)		86261434	43.6	M
A 30 C13-C22	6.301	(4.255-8.346)		23886904	12.1	M
44 Heptadecane	6.271	6.306	-0.035	394667	NC	M
A 31 C12-C24	6.347	(3.644-9.050)		37099151	18.8	M
49 n-Octadecane	6.753	6.752	0.001	132370	NC	M
A 52 Mineral oil	6.874	(1.355-12.393)		265959489	115.6	M
A 11 Bunker Range Organics (C9-	6.874	(1.355-12.393)		265959489	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.874	(1.355-12.393)		265959489	NC	M
33 C19	7.184	7.177	0.007	314462	NC	M
A 64 C13-C28	7.283	(4.255-10.311)		84112828	42.5	M
A 17 C10-C36	7.297	(2.201-12.393)		265114046	134.1	M
A 13 C9-C40	7.363	(1.355-13.371)		341573979	192.7	M
A 68 Crude Oil Range Organics (	7.363	(1.355-13.371)		341573979	NC	M
A 58 C16-C24	7.443	(5.836-9.050)		35077722	17.7	M
62 icosane	7.583	7.583	0.000	856626	NC	M
A 6 C10-C40	7.786	(2.201-13.371)		340728536	192.4	M
$ 34 p-Terphenyl	8.039	8.042	-0.003	56661284	24.1	
35 n-Docosane	8.352	8.346	0.006	1223767	NC	M
A 18 C12-C40	8.507	(3.644-13.371)		338915231	192.1	M
36 Tricosane	8.717	8.705	0.012	2550006	NC	M
A 66 C13-C40	8.813	(4.255-13.371)		338579930	192.1	M
37 n-Tetracosane	9.077	9.050	0.027	4118921	NC	M
A 2 C16-C36 ORO	9.115	(5.836-12.393)		261279312	193.0	M
38 C25	9.405	9.383	0.023	3712576	NC	M
A 19 C16-C40	9.603	(5.836-13.371)		336893802	191.5	M
46 n-Hexacosane	9.741	9.703	0.038	4407923	NC	M
A 20 C19-C36	9.785	(7.177-12.393)		198048339	123.0	
A 55 C23-C32	10.060	(8.705-11.415)		144223890	162.6	M
39 n-Octacosane	10.355	10.311	0.044	11509930	NC	M
65 C29	10.557	10.601	-0.044	20212232	NC	M
A 7 Motor Oil	10.721	(9.050-12.393)		194803721	168.4	
A 40 C24-C36	10.721	(9.050-12.393)		194803721	168.4	
A 10 C22-C40	10.858	(8.346-13.371)		253193016	156.4	
A 50 C25-C36	10.888	(9.383-12.393)		183101913	169.1	
A 41 C23-C40	11.038	(8.705-13.371)		251405580	158.3	
A 8 C24-C40	11.210	(9.050-13.371)		248477232	159.9	
56 Dotriacontane	11.418	11.415	0.003	6389772	NC	M
A 51 C28-C40	11.841	(10.311-13.371)		211595097	170.1	
A 63 C29-C40	11.986	(10.601-13.371)		189383514	165.8	
42 n-Hexatriacontane	12.364	12.393	-0.029	9227666	NC	M
43 C40		13.371			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

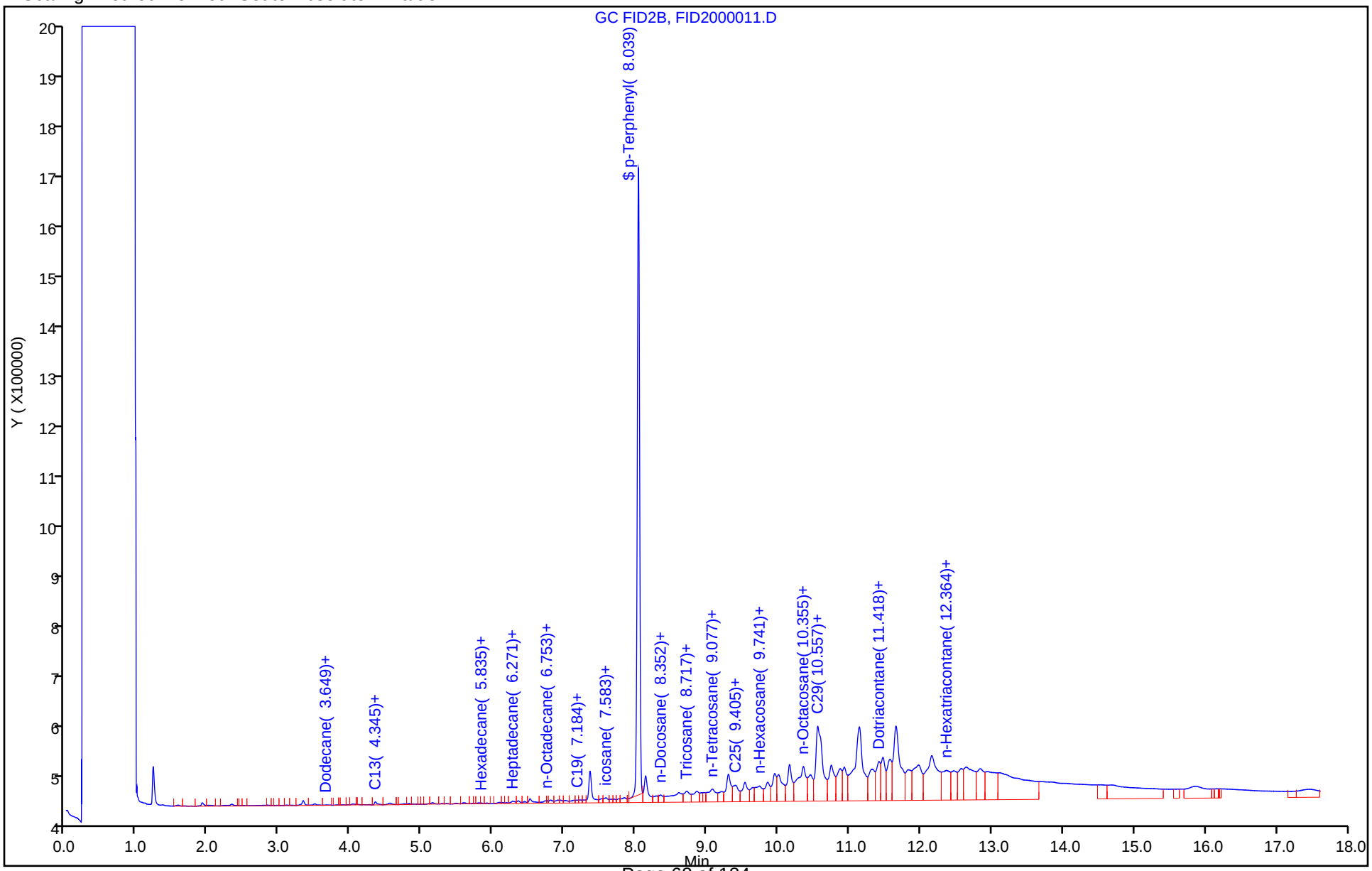
Report Date: 31-Dec-2018 11:50:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\FID2000011.D

Injection Date:	29-Dec-2018 17:12:05	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90479-F-9-C	Lab Sample ID:	720-90479-9	Worklist Smp#:	11
Client ID:	DG-AV5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	61
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\FID2000011.D				
Lims ID:	720-90479-F-9-C				
Client ID:	DG-AV5S-3.5-4				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 17:12:05	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	720-0055886-011				
Operator ID:	RLU	Instrument ID:	CHDRO6		
Method:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\DRO6_B.m				
Limit Group:	DRO				
Last Update:	31-Dec-2018 11:50:09	Calib Date:	29-Dec-2018 13:58:02		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\FID2000003.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0332				
First Level Reviewer: hayashid		Date:	31-Dec-2018 11:50:32		

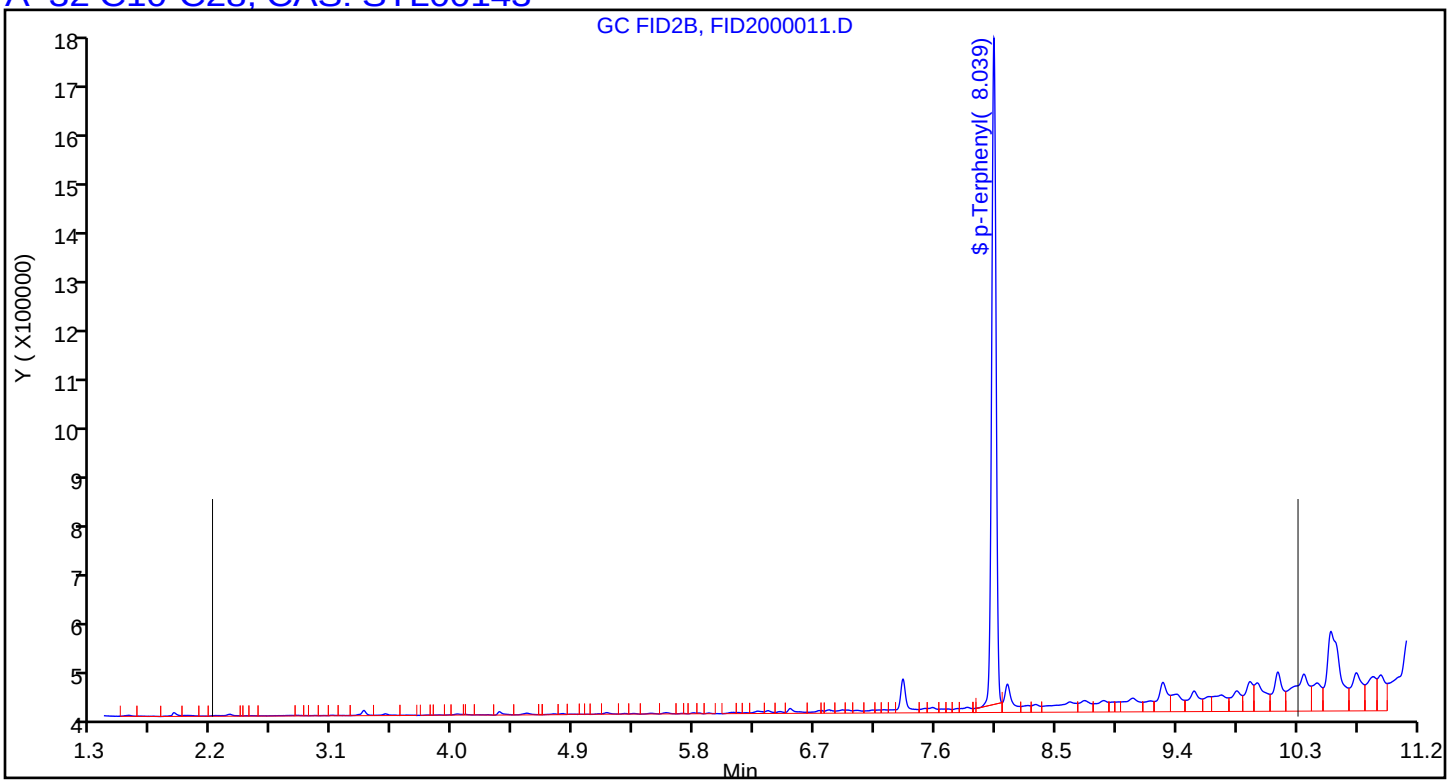
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.1	96.24

Report Date: 31-Dec-2018 11:50:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\FID2000011.D				
Injection Date:	29-Dec-2018 17:12:05	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-9-C	Lab Sample ID:	720-90479-9		
Client ID:	DG-AV5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

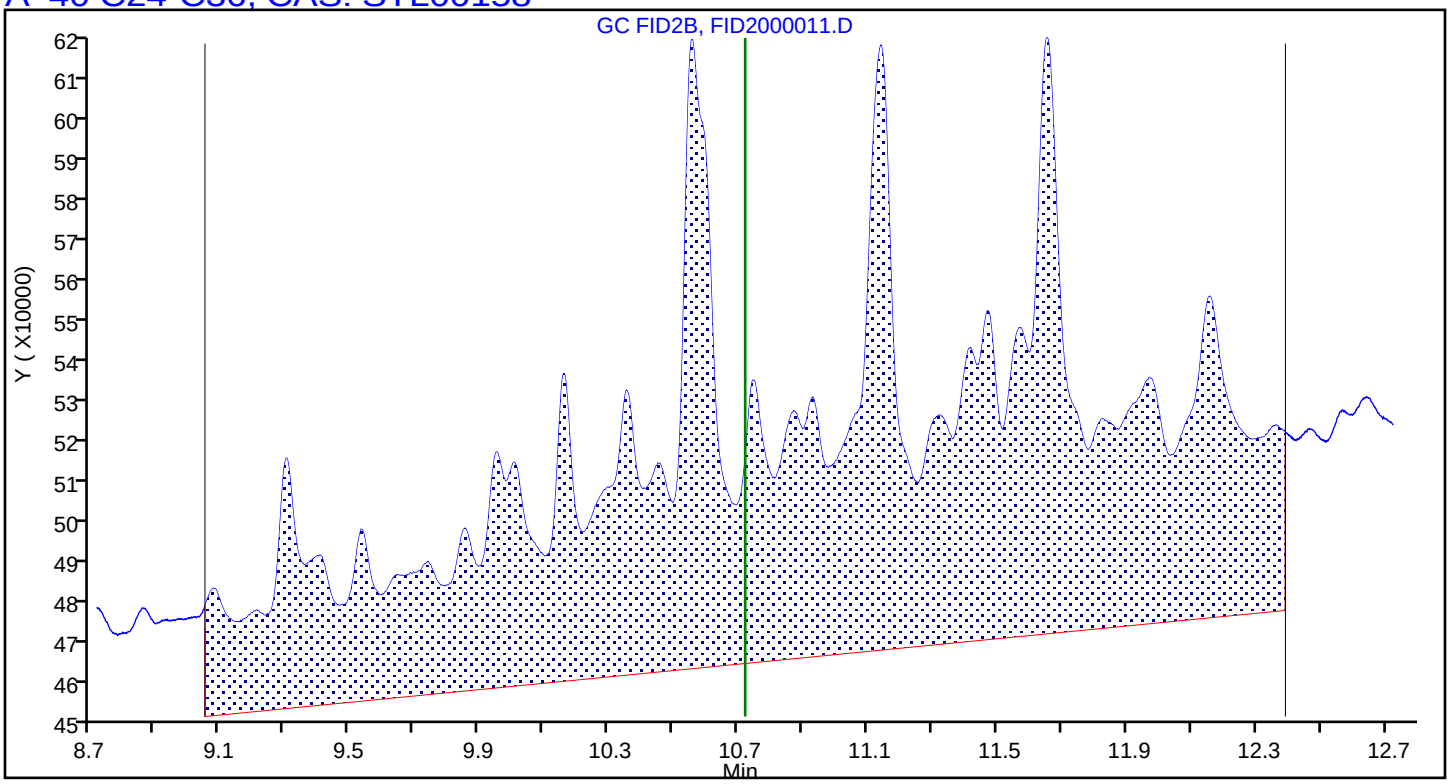


Report Date: 31-Dec-2018 11:50:41 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55886.b\FID2000011.D				
Injection Date:	29-Dec-2018 17:12:05	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-9-C	Lab Sample ID:	720-90479-9		
Client ID:	DG-AV5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

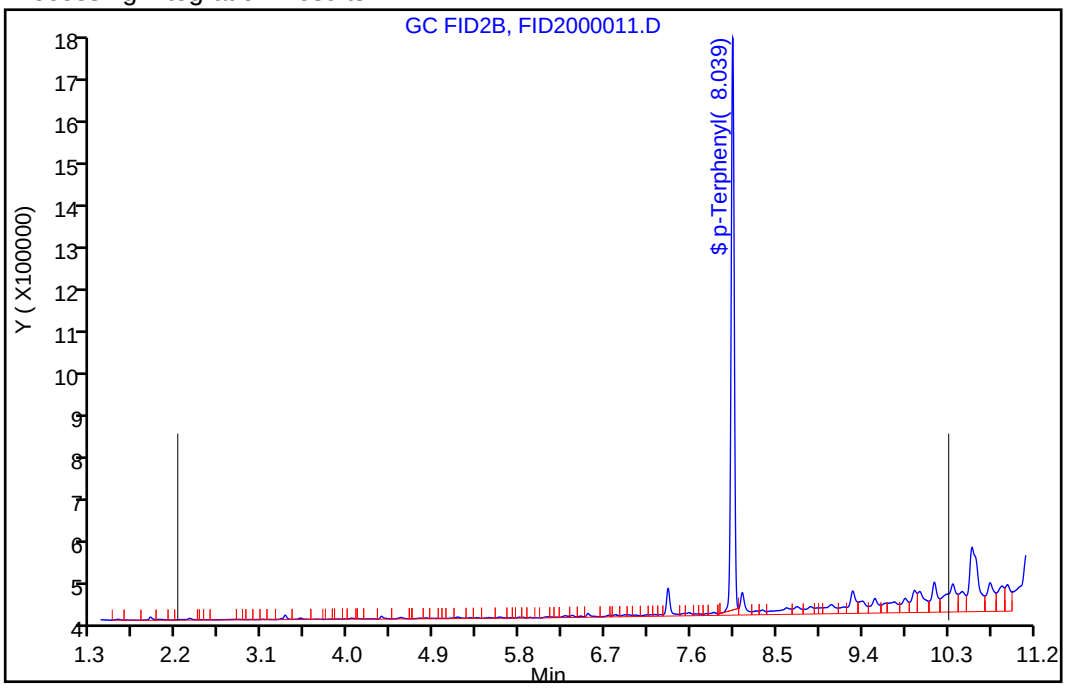
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Injection Date:	29-Dec-2018 17:12:05	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-9-C	Lab Sample ID:	720-90479-9		
Client ID:	DG-AV5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.256, CAS: STL00143

Signal: 1

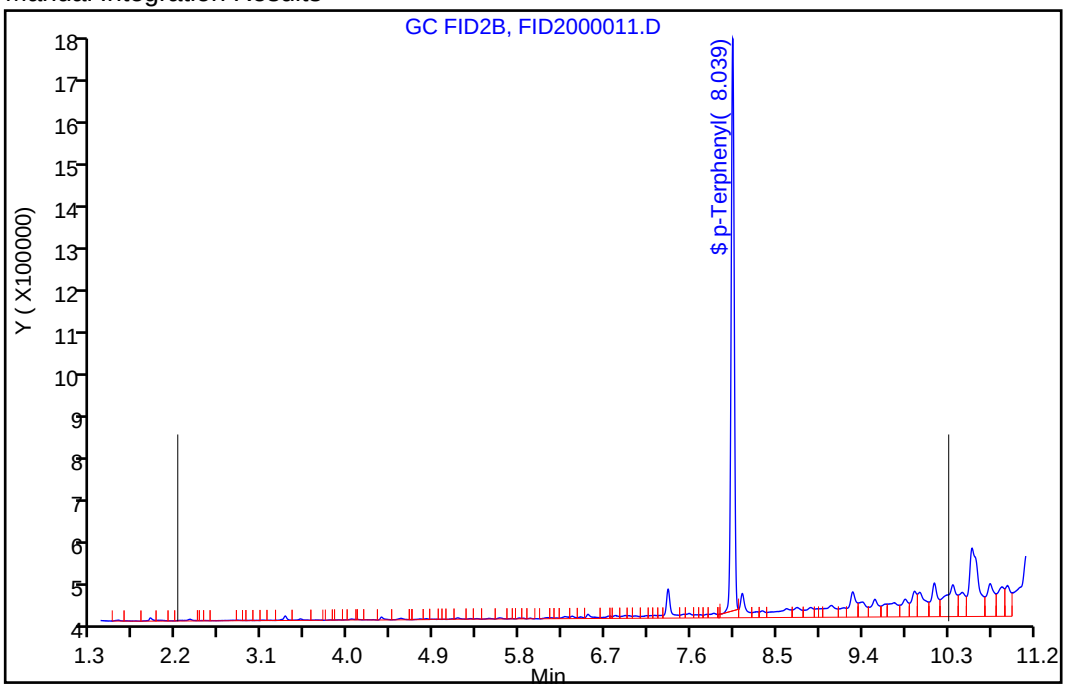
Processing Integration Results

RT: 6.26
Response: 66402898
Amount: 33.579563



Manual Integration Results

RT: 6.26
Response: 86261434
Amount: 43.621910



Reviewer: hayashid, 31-Dec-2018 11:50:06

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_008.d
Lims ID: 720-90479-F-10-A
Client ID: DG-AV5S-7.5-8
Sample Type: Client
Inject. Date: 31-Dec-2018 12:30:58 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0055894-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:35:22 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:35:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.570			ND	
23 n-Decane	3.834	3.808	0.026	756	NC	
A 1 C9-C13	4.549	(2.570-6.529)		25233	NC	M
A 21 Stoddard Solvent	4.549	(2.570-6.529)		25233	NC	M
A 57 C10-C12	4.766	(3.808-5.725)		10263	1.05	M
24 Dodecane	5.713	5.725	-0.011	2907	NC	M
A 3 C9 - C17	5.914	(2.570-9.258)		51019	4.21	M
A 47 C9 - C18	6.210	(2.570-9.851)		66391	6.17	M
A 60 C10-C16	6.214	(3.808-8.619)		29302	2.66	M
A 15 Kerosene	6.480	(2.570-10.390)		66391	6.16	M
A 25 C9-C19	6.480	(2.570-10.390)		66391	5.44	M
26 C13	6.513	6.529	-0.016	1727	NC	M
$ 27 n-Decanoic Acid (Surr)		7.161			ND	MU
A 59 C12-C16	7.172	(5.725-8.619)		21946	2.24	M
A 62 C10-C20	7.367	(3.808-10.926)		95868	9.78	M
A 28 C9-C24	7.714	(2.570-12.858)		201369	20.5	M
A 29 C9-C25	7.932	(2.570-13.295)		226868	23.1	M
A 54 C10-C23	8.106	(3.808-12.404)		150835	15.4	M
A 4 C10-C24	8.333	(3.808-12.858)		188126	19.2	M
A 16 C10-C25	8.551	(3.808-13.295)		213625	21.8	M
45 Hexadecane	8.617	8.619	-0.002	5857	NC	M
A 14 C10-C26	8.762	(3.808-13.716)		213625	21.8	M
A 67 C12-C22	8.828	(5.725-11.931)		143479	14.6	M
A 12 Unknown Hydrocarbons	9.162	(3.808-14.515)		288213	NC	M
A 32 C10-C28	9.162	(3.808-14.515)		288213	29.4	M
A 5 Diesel	9.162	(3.808-14.515)		288213	29.4	M
A 30 C13-C22	9.230	(6.529-11.931)		140572	14.3	M
44 Heptadecane	9.257	9.258	-0.001	5716	NC	M
A 31 C12-C24	9.291	(5.725-12.858)		180770	18.4	M
49 n-Octadecane		9.851			ND	
A 9 Crude Oil Range Organics (	9.909	(2.570-17.247)		820297	NC	
A 52 Mineral oil	9.909	(2.570-17.247)		820297	73.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.909	(2.570-17.247)		585985	NC	M
33 C19		10.390			ND	
A 64 C13-C28	10.522	(6.529-14.515)		277950	28.4	M
A 17 C10-C36	10.528	(3.808-17.247)		572742	58.4	M
A 13 C9-C40	10.691	(2.570-18.812)		1072563	93.2	
A 68 Crude Oil Range Organics (	10.691	(2.570-18.812)		1072563	NC	
A 58 C16-C24	10.739	(8.619-12.858)		164681	16.8	M
61 icosane		10.926			ND	
A 6 C10-C40	11.310	(3.808-18.812)		1058271	91.9	
$ 34 p-Terphenyl	11.910	11.919	-0.009	277971	23.3	M
35 n-Docosane		11.931			ND	
A 18 C12-C40	12.268	(5.725-18.812)		1047605	91.1	
36 Tricosane	12.407	12.404	0.003	7623	NC	M
A 66 C13-C40	12.671	(6.529-18.812)		1042710	90.7	
37 n-Tetracosane	12.833	12.858	-0.025	29668	NC	M
A 2 C16-C36 ORO	12.933	(8.619-17.247)		759909	100.1	
38 C25		13.295			ND	
A 19 C16-C40	13.716	(8.619-18.812)		1012175	87.1	
46 n-Hexacosane		13.716			ND	
A 20 C19-C36	13.818	(10.390-17.247)		478038	55.4	
A 55 C23-C32	14.183	(12.404-15.963)		356197	74.9	
39 n-Octacosane	14.460	14.515	-0.055	18476	NC	M
65 C29	14.893	14.895	-0.002	46015	NC	M
A 7 Motor Oil	15.052	(12.858-17.247)		393433	64.6	
A 40 C24-C36	15.052	(12.858-17.247)		393433	64.6	
A 50 C25-C36	15.271	(13.295-17.247)		371101	64.1	
A 10 C22-C40	15.372	(11.931-18.812)		403281	48.2	
A 41 C23-C40	15.608	(12.404-18.812)		612408	74.7	
A 8 C24-C40	15.835	(12.858-18.812)		595174	74.8	
56 Dotriacontane		15.963			ND	
A 51 C28-C40	16.664	(14.515-18.812)		494062	57.6	
A 63 C29-C40	16.853	(14.895-18.812)		461488	57.0	
42 n-Hexatriacontane		17.247			ND	
43 C40	18.793	18.812	-0.019	225759	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

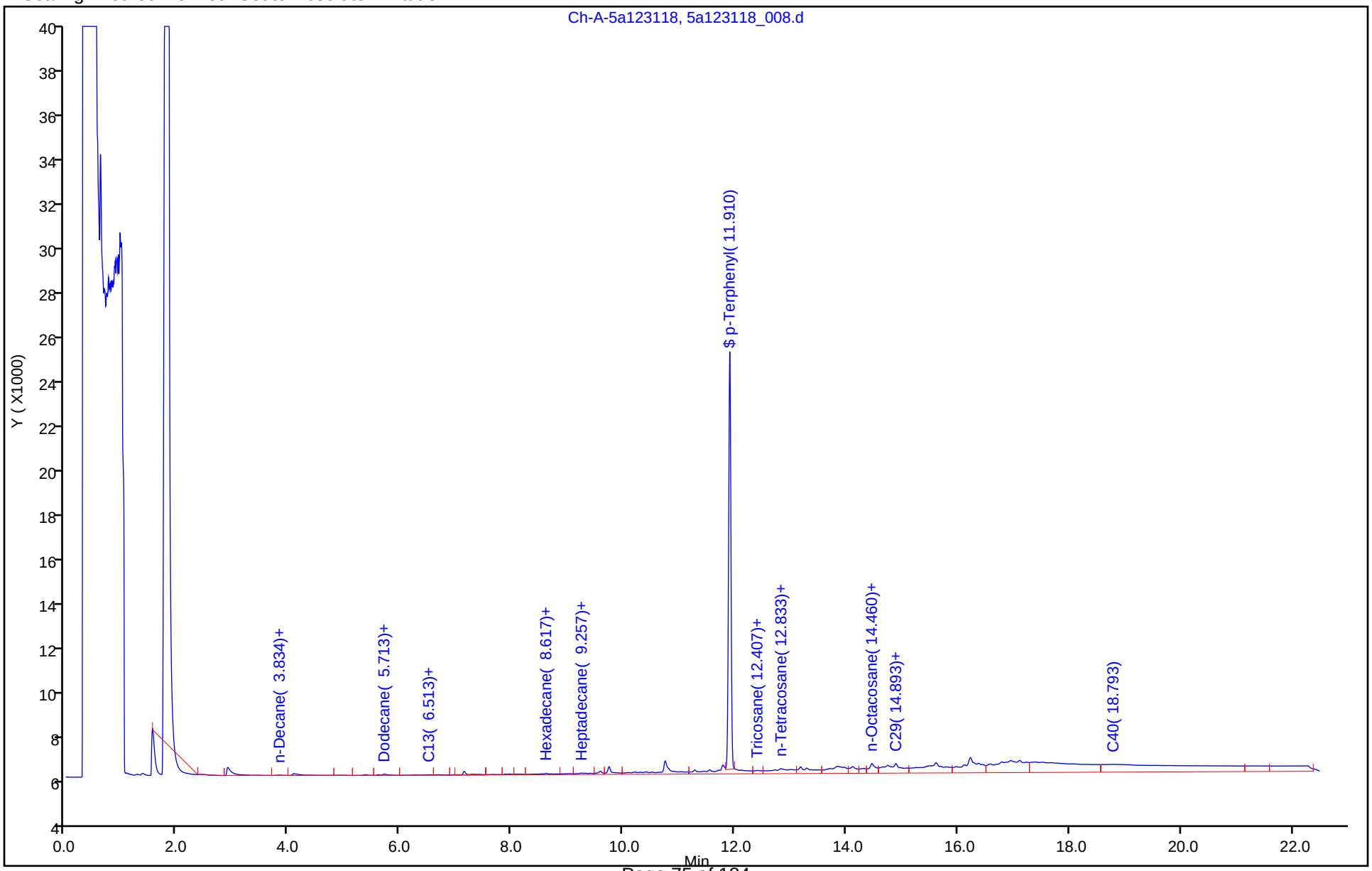
U - Marked Undetected

Report Date: 02-Jan-2019 10:35:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_008.d				
Injection Date:	31-Dec-2018 12:30:58	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-10-A	Lab Sample ID:	720-90479-10	Worklist Smp#:	8
Client ID:	DG-AV5S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_008.d
Lims ID: 720-90479-F-10-A
Client ID: DG-AV5S-7.5-8
Sample Type: Client
Inject. Date: 31-Dec-2018 12:30:58 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0055894-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:35:22 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:35:22

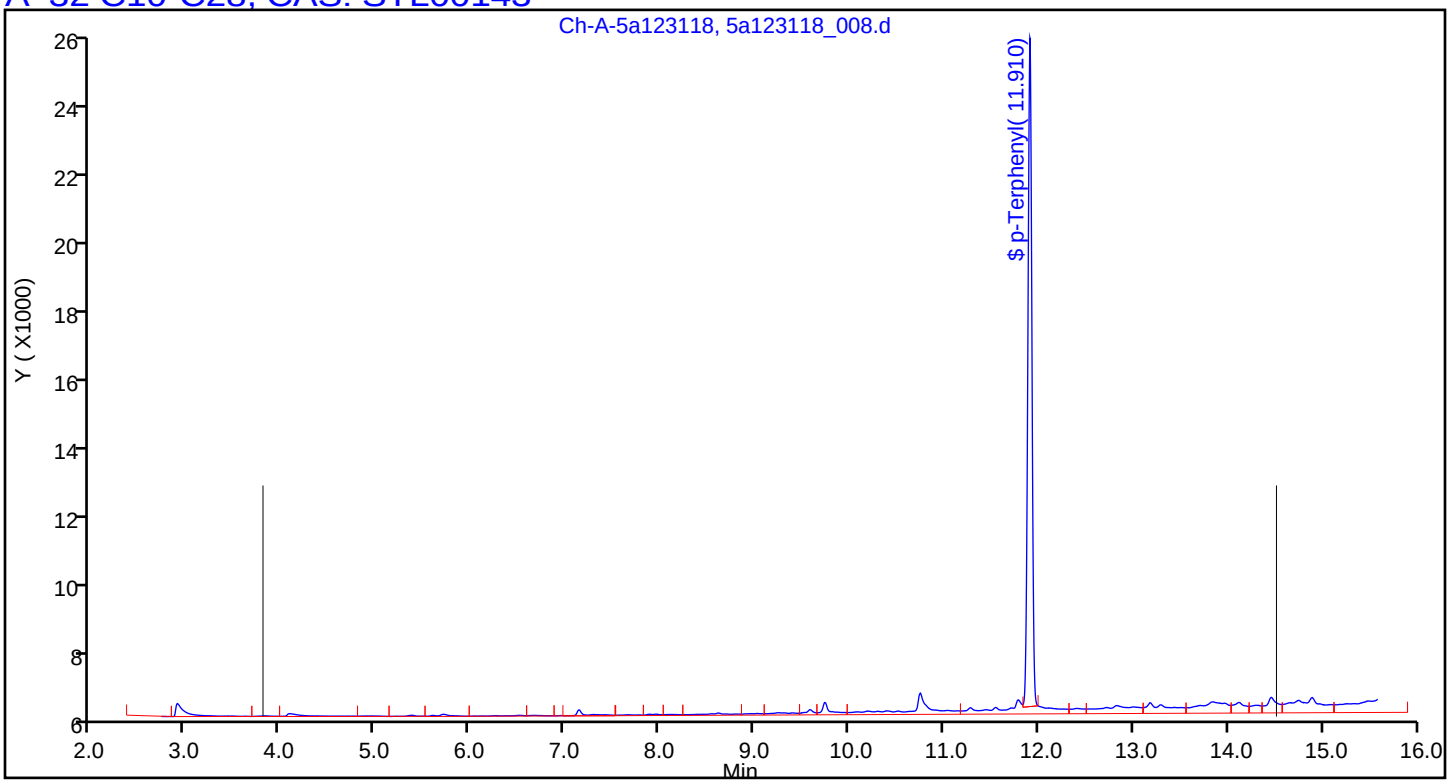
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.3	93.24

Report Date: 02-Jan-2019 10:35:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_008.d				
Injection Date:	31-Dec-2018 12:30:58	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-10-A	Lab Sample ID:	720-90479-10		
Client ID:	DG-AV5S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

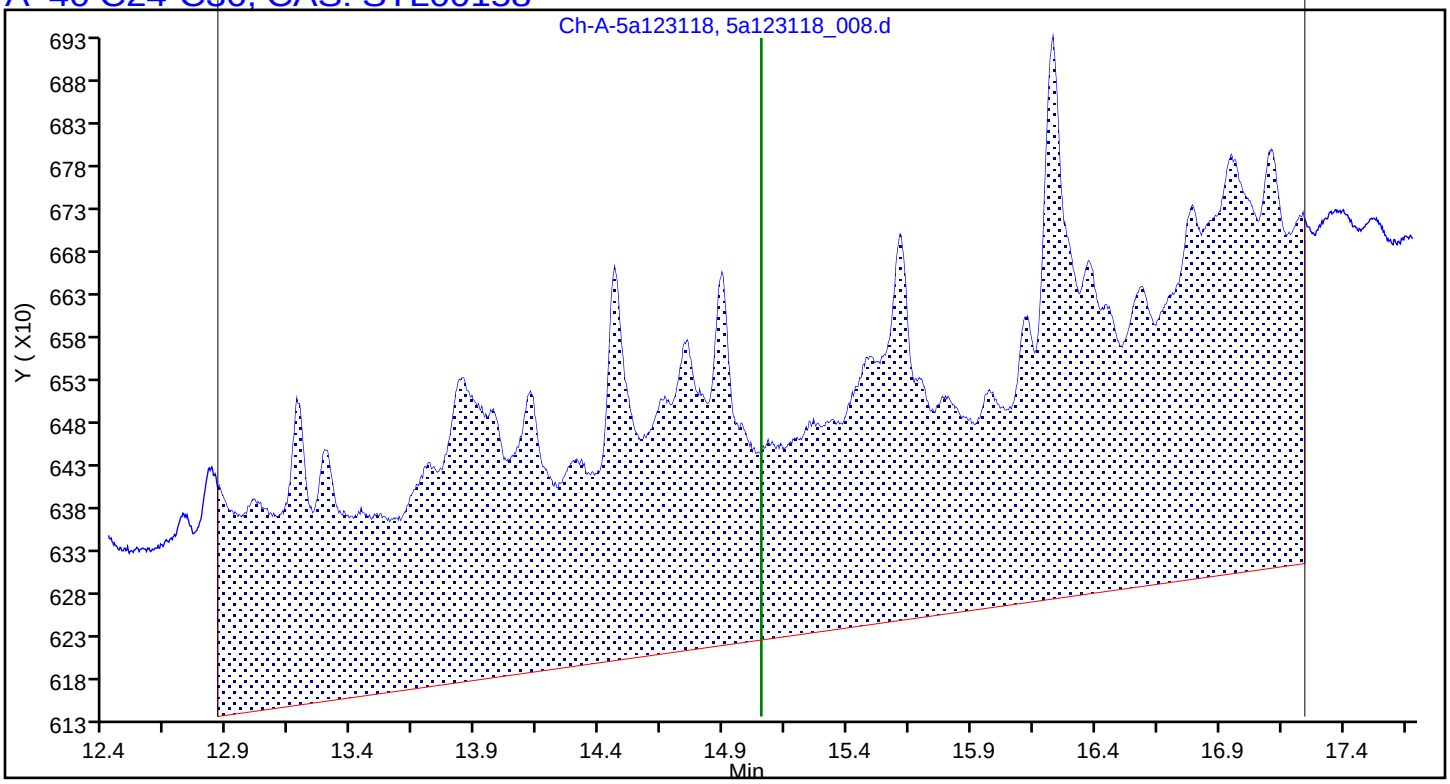


Report Date: 02-Jan-2019 10:35:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_008.d				
Injection Date:	31-Dec-2018 12:30:58	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-10-A	Lab Sample ID:	720-90479-10		
Client ID:	DG-AV5S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

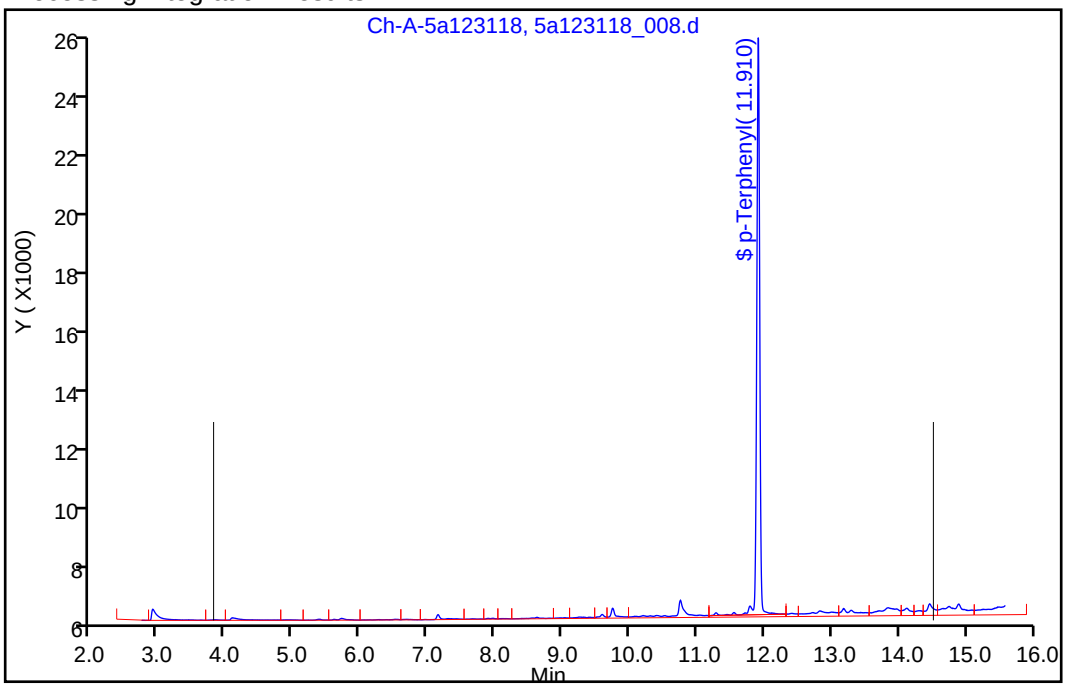
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_008.d				
Injection Date:	31-Dec-2018 12:30:58	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-10-A	Lab Sample ID:	720-90479-10		
Client ID:	DG-AV5S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

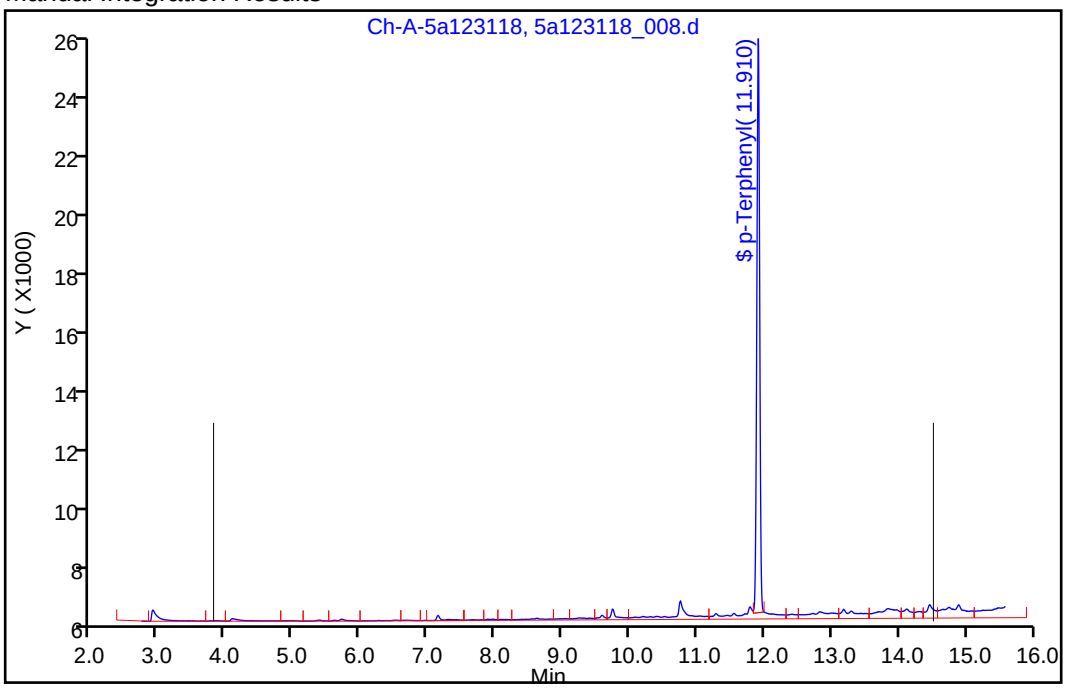
Processing Integration Results

RT: 9.16
Response: 187076
Amount: 19.087414



Manual Integration Results

RT: 9.16
Response: 288213
Amount: 29.406450



Reviewer: luj, 02-Jan-2019 10:34:54

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

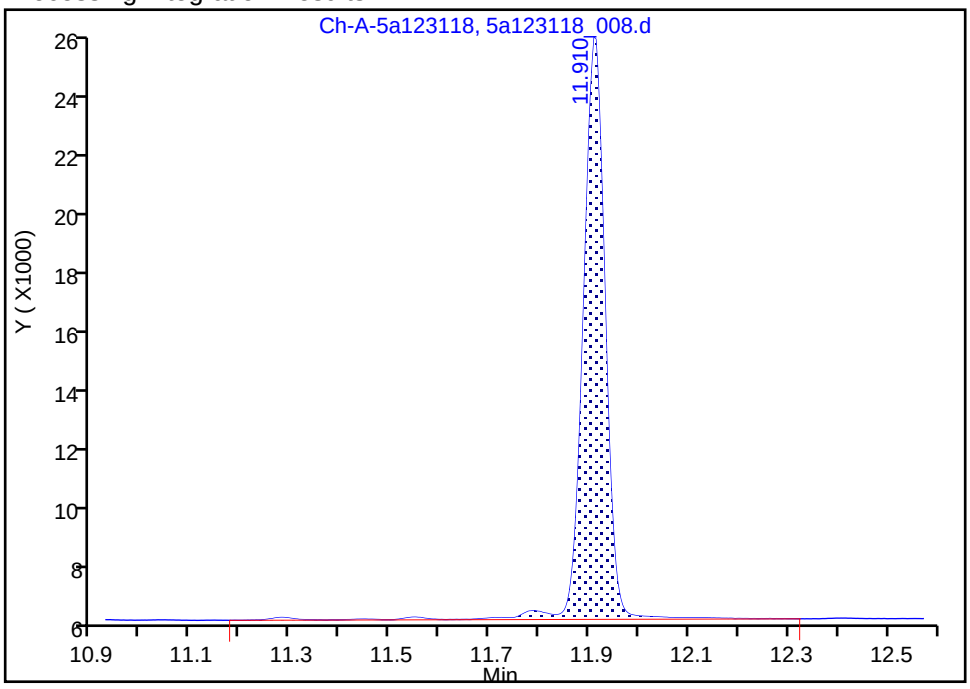
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_008.d				
Injection Date:	31-Dec-2018 12:30:58	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-10-A	Lab Sample ID:	720-90479-10		
Client ID:	DG-AV5S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

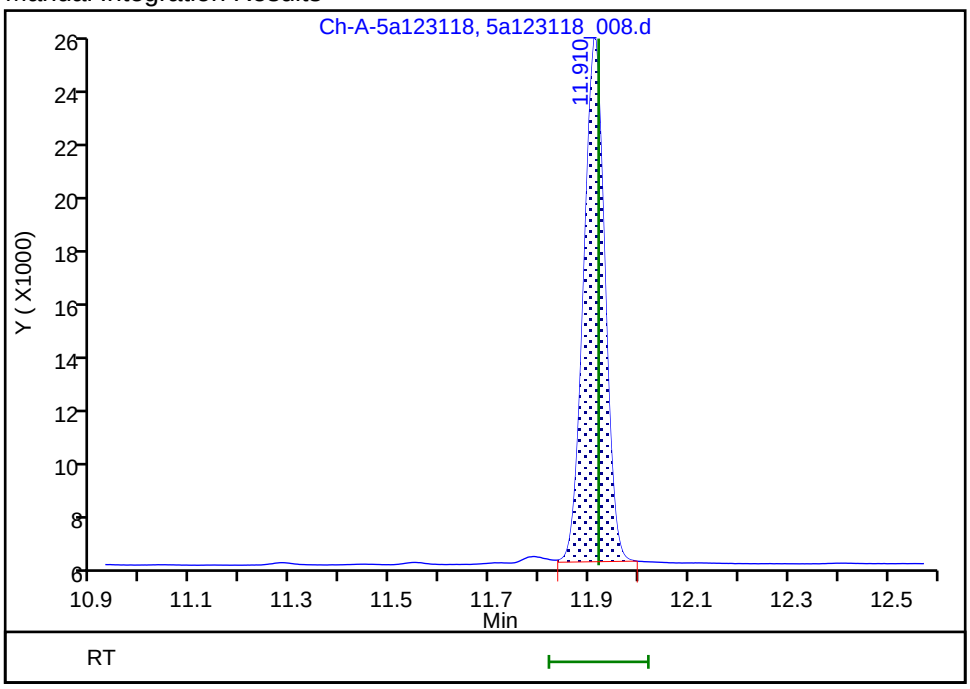
Processing Integration Results

RT: 11.91
Area: 295678
Amount: 24.794980
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 277971
Amount: 23.310106
Amount Units: mg/L



Reviewer: luj, 02-Jan-2019 10:35:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_010.d
Lims ID: 720-90479-F-11-A
Client ID: DUP-35
Sample Type: Client
Inject. Date: 31-Dec-2018 13:28:49 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 137 Name: 720-0055895-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\DRO5B.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:53:30 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:53:30

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.710	2.688	0.022	540	NC	
	23 n-Decane	3.913	3.901	0.012	1107	NC	
A	1 C9-C13	4.641	(2.688-6.593)		32220	2.54	
A	21 Stoddard Solvent	4.641	(2.688-6.593)		32220	2.83	
A	57 C10-C12	4.848	(3.901-5.794)		15214	1.55	
	24 Dodecane	5.793	5.794	-0.001	957	NC	
A	3 C9 - C17	5.994	(2.688-9.301)		263322	18.6	
A	47 C9 - C18	6.282	(2.688-9.875)		622802	55.5	
A	60 C10-C16	6.285	(3.901-8.670)		182256	14.6	
A	15 Kerosene	6.559	(2.688-10.431)		734519	65.3	
A	25 C9-C19	6.559	(2.688-10.431)		734519	51.9	
	26 C13	6.546	6.593	-0.047	6180	NC	
$	27 n-Decanoic Acid (Surr)		7.209			ND	U
A	59 C12-C16	7.232	(5.794-8.670)		167999	17.1	
A	62 C10-C20	7.433	(3.901-10.965)		1090035	111.0	
A	28 C9-C24	7.787	(2.688-12.886)		2991052	304.6	
A	29 C9-C25	8.004	(2.688-13.320)		3546384	361.2	
A	54 C10-C23	8.168	(3.901-12.434)		2426025	247.1	
A	4 C10-C24	8.393	(3.901-12.886)		2983438	303.9	
A	16 C10-C25	8.611	(3.901-13.320)		3538770	360.4	
	45 Hexadecane	8.684	8.670	0.014	23587	NC	
A	14 C10-C26	8.820	(3.901-13.739)		4000713	407.5	
A	67 C12-C22	8.880	(5.794-11.965)		2057787	209.6	
A	5 Diesel	9.217	(3.901-14.534)		4944735	503.6	
A	32 C10-C28	9.217	(3.901-14.534)		4944735	503.6	
A	12 Unknown Hydrocarbons	9.217	(3.901-14.534)		4944735	NC	
A	30 C13-C22	9.279	(6.593-11.965)		2053618	209.2	
	44 Heptadecane	9.306	9.301	0.005	48614	NC	
A	31 C12-C24	9.340	(5.794-12.886)		2969181	302.4	
	49 n-Octadecane		9.875			ND	
A	52 Mineral oil	9.969	(2.688-17.249)		9022927	830.5	
A	9 Crude Oil Range Organics (	9.969	(2.688-17.249)		9022927	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.969	(2.688-17.249)		10701232	NC	
33 C19	10.435	10.431	0.004	84220	NC	
A 64 C13-C28	10.563	(6.593-14.534)		4926309	501.8	
A 17 C10-C36	10.575	(3.901-17.249)		10693618	1089.2	
A 13 C9-C40	10.747	(2.688-18.805)		10288129	1017.6	
A 68 Crude Oil Range Organics (	10.747	(2.688-18.805)		10288129	NC	
A 58 C16-C24	10.778	(8.670-12.886)		2801182	285.3	
61 icosane	10.964	10.965	-0.001	57011	NC	
A 6 C10-C40	11.353	(3.901-18.805)		10279099	1018.0	
$ 34 p-Terphenyl		11.935			ND	U
35 n-Docosane	12.043	11.965	0.078	102086	NC	
A 18 C12-C40	12.300	(5.794-18.805)		10255214	1018.8	
36 Tricosane	12.437	12.434	0.003	155424	NC	
A 66 C13-C40	12.699	(6.593-18.805)		10003050	1008.5	
37 n-Tetracosane	12.877	12.886	-0.009	173583	NC	
A 2 C16-C36 ORO	12.959	(8.670-17.249)		7147545	968.7	
38 C25	13.280	13.320	-0.040	140002	NC	
A 19 C16-C40	13.737	(8.670-18.805)		10034997	1002.6	
46 n-Hexacosane	13.710	13.739	-0.029	259025	NC	
A 20 C19-C36	13.840	(10.431-17.249)		7103114	910.9	
A 55 C23-C32	14.204	(12.434-15.973)		4411228	1024.1	
39 n-Octacosane	14.569	14.534	0.035	114764	NC	
65 C29	14.892	14.911	-0.019	284903	NC	
A 40 C24-C36	15.068	(12.886-17.249)		5493083	876.6	
A 7 Motor Oil	15.068	(12.886-17.249)		5493083	876.6	
A 50 C25-C36	15.285	(13.320-17.249)		4964177	837.6	
A 10 C22-C40	15.385	(11.965-18.805)		7480115	843.9	
A 41 C23-C40	15.620	(12.434-18.805)		7048873	814.3	
A 8 C24-C40	15.846	(12.886-18.805)		6624489	791.7	
56 Dotriacontane	15.941	15.973	-0.032	190857	NC	
A 51 C28-C40	16.670	(14.534-18.805)		4664645	701.1	
A 63 C29-C40	16.858	(14.911-18.805)		4106348	673.5	
42 n-Hexatriacontane		17.249			ND	
43 C40		18.805			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

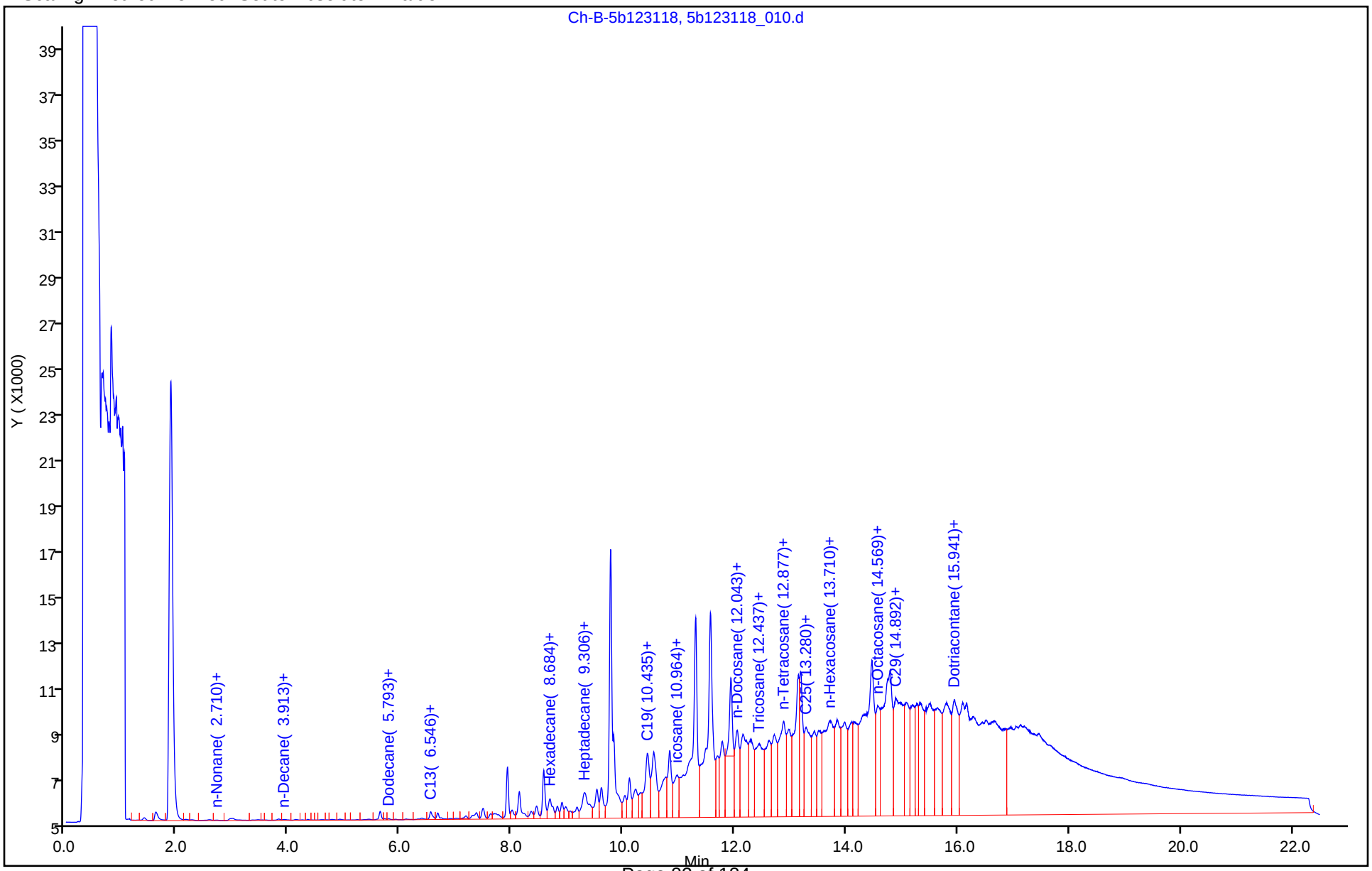
Report Date: 02-Jan-2019 10:53:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_010.d

Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-11-A	Lab Sample ID:	720-90479-11	Worklist Smp#:	10
Client ID:	DUP-35				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

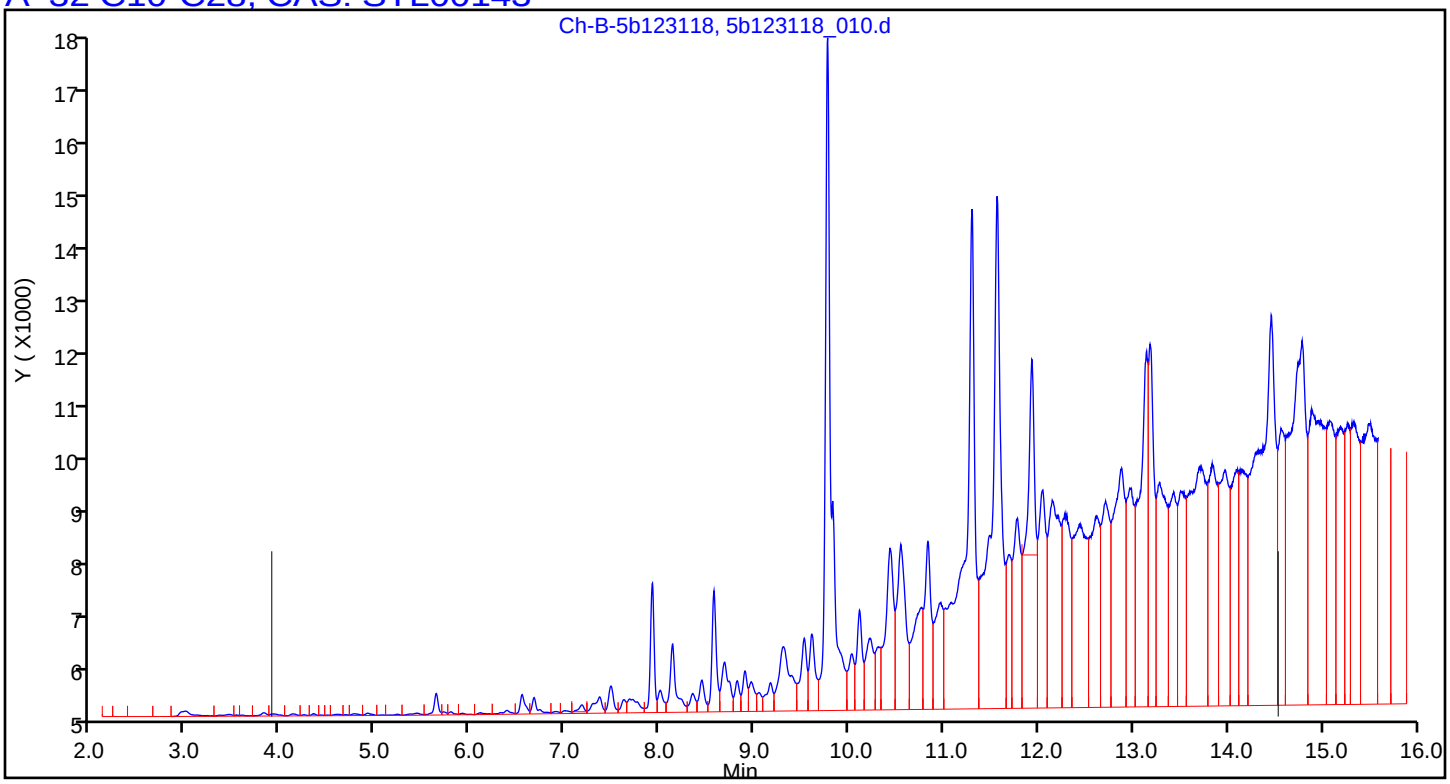


Report Date: 02-Jan-2019 10:53:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_010.d				
Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-11-A	Lab Sample ID:	720-90479-11		
Client ID:	DUP-35				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

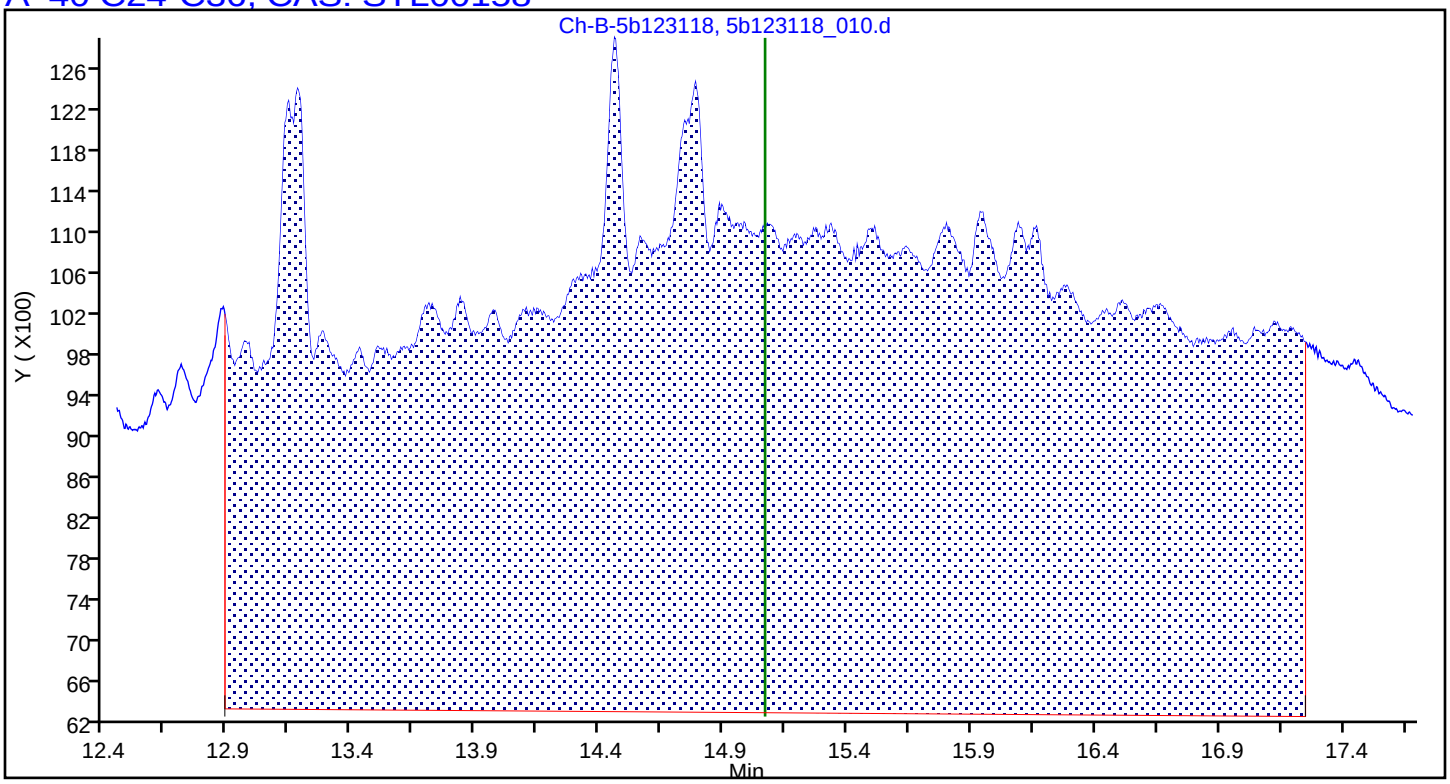


Report Date: 02-Jan-2019 10:53:32 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_010.d				
Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-11-A	Lab Sample ID:	720-90479-11		
Client ID:	DUP-35				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



User Disabled Compound Report

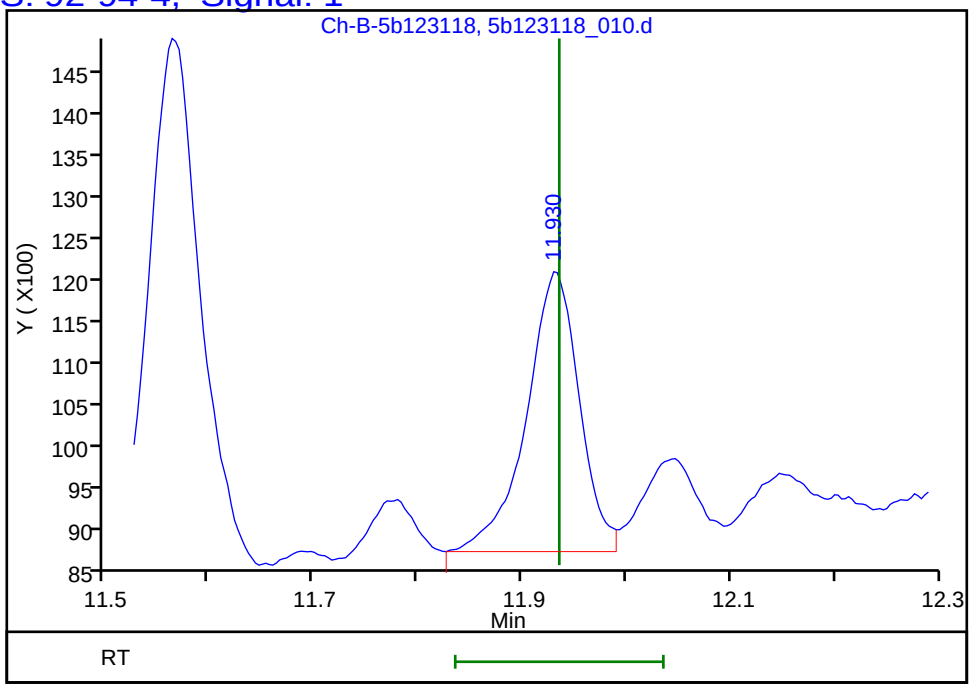
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_010.d

Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-11-A	Lab Sample ID:	720-90479-11		
Client ID:	DUP-35				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.93
Response: 59194
Amount: 4.700783



Reviewer: luj, 02-Jan-2019 10:53:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_009.d
Lims ID: 720-90479-F-12-A
Client ID: DG-AT5S-0.5-1
Sample Type: Client
Inject. Date: 31-Dec-2018 12:59:47 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0055894-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:36:10 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:36:10

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.570			ND	
23 n-Decane	3.832	3.808	0.024	806	NC	
A 1 C9-C13	4.549	(2.570-6.529)		23425	NC	
A 21 Stoddard Solvent	4.549	(2.570-6.529)		23425	NC	
A 57 C10-C12	4.766	(3.808-5.725)		7546	0.7699	
24 Dodecane	5.720	5.725	-0.004	2785	NC	
A 3 C9 - C17	5.914	(2.570-9.258)		43506	3.59	M
A 47 C9 - C18	6.210	(2.570-9.851)		57601	5.35	M
A 60 C10-C16	6.214	(3.808-8.619)		24833	2.25	
A 15 Kerosene	6.480	(2.570-10.390)		60954	5.65	M
A 25 C9-C19	6.480	(2.570-10.390)		60954	4.99	M
26 C13	6.516	6.529	-0.013	1335	NC	
$ 27 n-Decanoic Acid (Surr)		7.161			ND	
A 59 C12-C16	7.172	(5.725-8.619)		20072	2.05	
A 62 C10-C20	7.367	(3.808-10.926)		104047	10.6	M
A 28 C9-C24	7.714	(2.570-12.858)		179965	18.4	M
A 29 C9-C25	7.932	(2.570-13.295)		190280	19.4	M
A 54 C10-C23	8.106	(3.808-12.404)		154136	15.7	M
A 4 C10-C24	8.333	(3.808-12.858)		166233	17.0	M
A 16 C10-C25	8.551	(3.808-13.295)		176548	18.0	M
45 Hexadecane	8.622	8.619	0.003	1690	NC	
A 14 C10-C26	8.762	(3.808-13.716)		176548	18.0	M
A 67 C12-C22	8.828	(5.725-11.931)		140954	14.4	M
A 12 Unknown Hydrocarbons	9.162	(3.808-14.515)		218456	NC	M
A 32 C10-C28	9.162	(3.808-14.515)		218456	22.3	M
A 5 Diesel	9.162	(3.808-14.515)		218456	22.3	M
A 30 C13-C22	9.230	(6.529-11.931)		137357	14.0	M
44 Heptadecane	9.257	9.258	-0.001	3251	NC	M
A 31 C12-C24	9.291	(5.725-12.858)		161472	16.5	M
49 n-Octadecane	9.833	9.851	-0.018	14095	NC	M
A 9 Crude Oil Range Organics (	9.909	(2.570-17.247)		871658	NC	
A 52 Mineral oil	9.909	(2.570-17.247)		871658	77.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.909	(2.570-17.247)		718600	NC	M
33 C19	10.300	10.390	-0.090	3353	NC	M
A 64 C13-C28	10.522	(6.529-14.515)		210098	21.4	M
A 17 C10-C36	10.528	(3.808-17.247)		704868	71.9	M
A 13 C9-C40	10.691	(2.570-18.812)		1161285	104.5	
A 68 Crude Oil Range Organics (	10.691	(2.570-18.812)		1161285	NC	
A 58 C16-C24	10.739	(8.619-12.858)		141400	14.4	M
61 icosane		10.926			ND	
A 6 C10-C40	11.310	(3.808-18.812)		1145625	103.0	
$ 34 p-Terphenyl	11.913	11.919	-0.006	308281	25.9	M
35 n-Docosane		11.931			ND	
A 18 C12-C40	12.268	(5.725-18.812)		1138683	102.7	
36 Tricosane		12.404			ND	
A 66 C13-C40	12.671	(6.529-18.812)		1134944	102.4	
37 n-Tetracosane	12.850	12.858	-0.008	12097	NC	M
A 2 C16-C36 ORO	12.933	(8.619-17.247)		825872	108.8	
38 C25	13.293	13.295	-0.002	10315	NC	M
A 19 C16-C40	13.716	(8.619-18.812)		1115499	100.3	
46 n-Hexacosane	13.717	13.716	0.001	16323	NC	M
A 20 C19-C36	13.818	(10.390-17.247)		600906	69.6	
A 55 C23-C32	14.183	(12.404-15.963)		360001	75.7	
39 n-Octacosane		14.515			ND	
65 C29	14.893	14.895	-0.002	31900	NC	M
A 7 Motor Oil	15.052	(12.858-17.247)		527026	86.5	
A 40 C24-C36	15.052	(12.858-17.247)		527026	86.5	
A 50 C25-C36	15.271	(13.295-17.247)		519577	89.8	
A 10 C22-C40	15.372	(11.931-18.812)		533752	63.8	
A 41 C23-C40	15.608	(12.404-18.812)		775844	94.6	
A 8 C24-C40	15.835	(12.858-18.812)		771533	97.0	
56 Dotriacontane		15.963			ND	
A 51 C28-C40	16.664	(14.515-18.812)		706707	91.2	
A 63 C29-C40	16.853	(14.895-18.812)		666607	92.7	
42 n-Hexatriacontane		17.247			ND	
43 C40		18.812			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

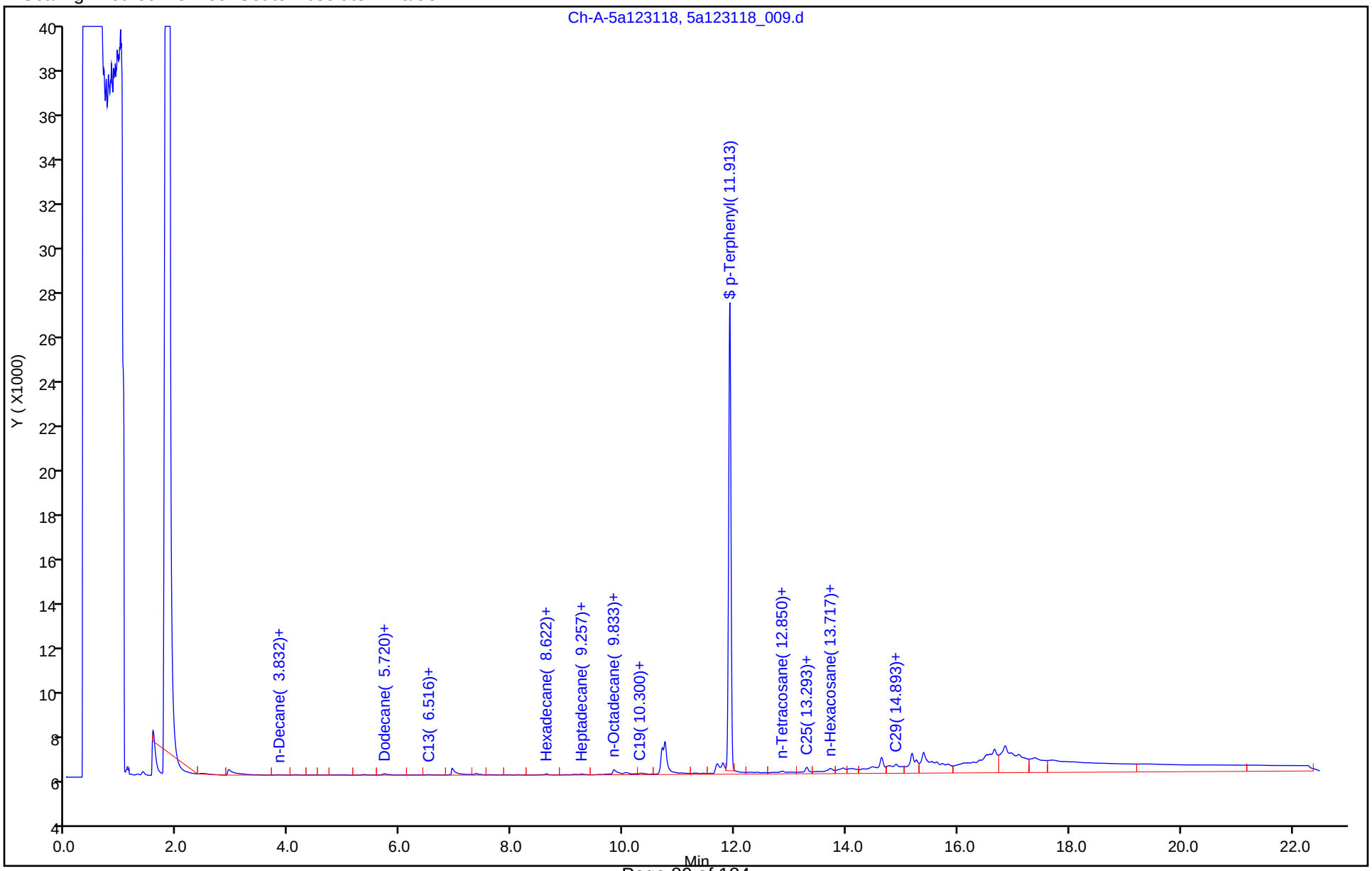
M - Manually Integrated

Report Date: 02-Jan-2019 10:36:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_009.d				
Injection Date:	31-Dec-2018 12:59:47	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-12-A	Lab Sample ID:	720-90479-12	Worklist Smp#:	9
Client ID:	DG-AT5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_009.d				
Lims ID:	720-90479-F-12-A				
Client ID:	DG-AT5S-0.5-1				
Sample Type:	Client				
Inject. Date:	31-Dec-2018 12:59:47	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0055894-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	02-Jan-2019 10:36:10	Calib Date:	31-Dec-2018 09:13:06		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0316				

First Level Reviewer: luj Date: 02-Jan-2019 10:36:10

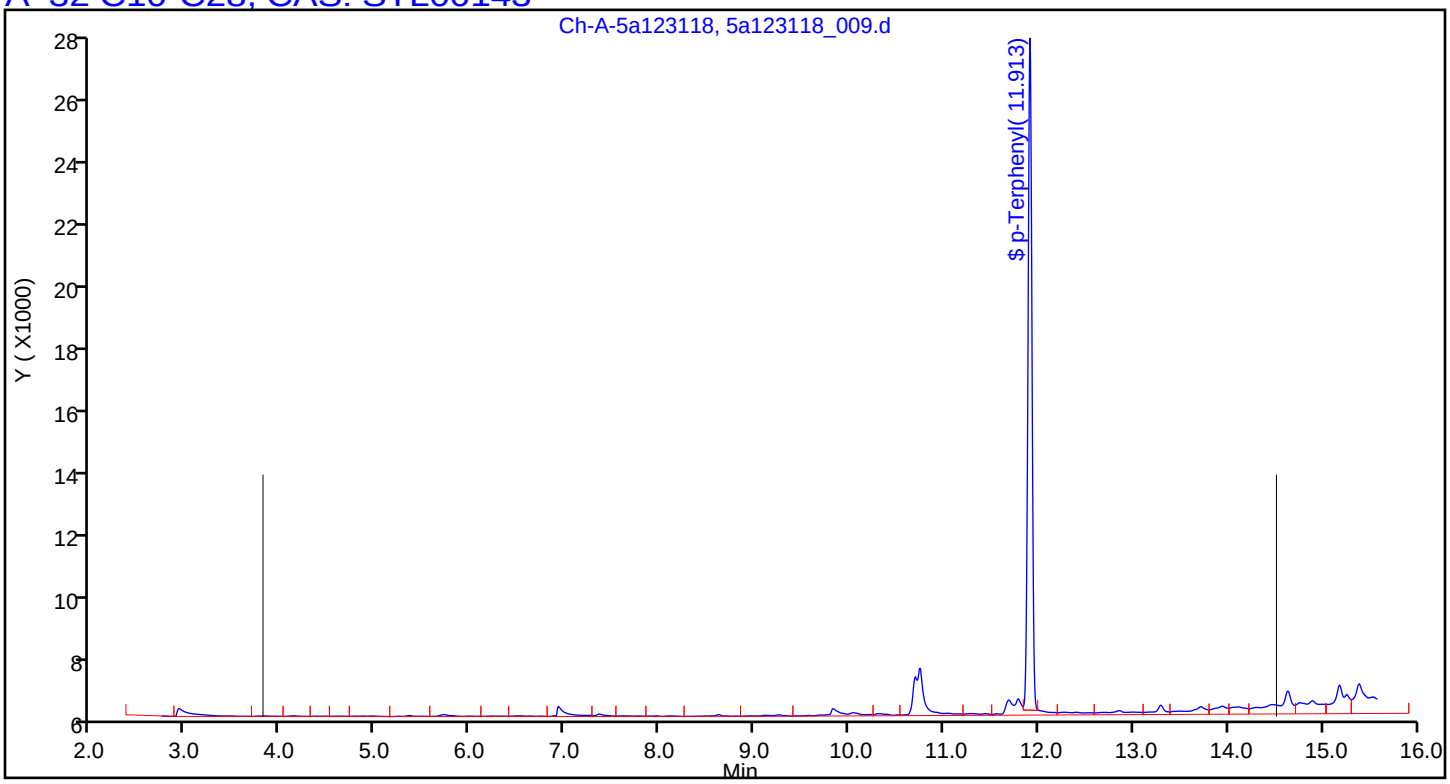
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.9	103.41

Report Date: 02-Jan-2019 10:36:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_009.d				
Injection Date:	31-Dec-2018 12:59:47	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-12-A	Lab Sample ID:	720-90479-12		
Client ID:	DG-AT5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

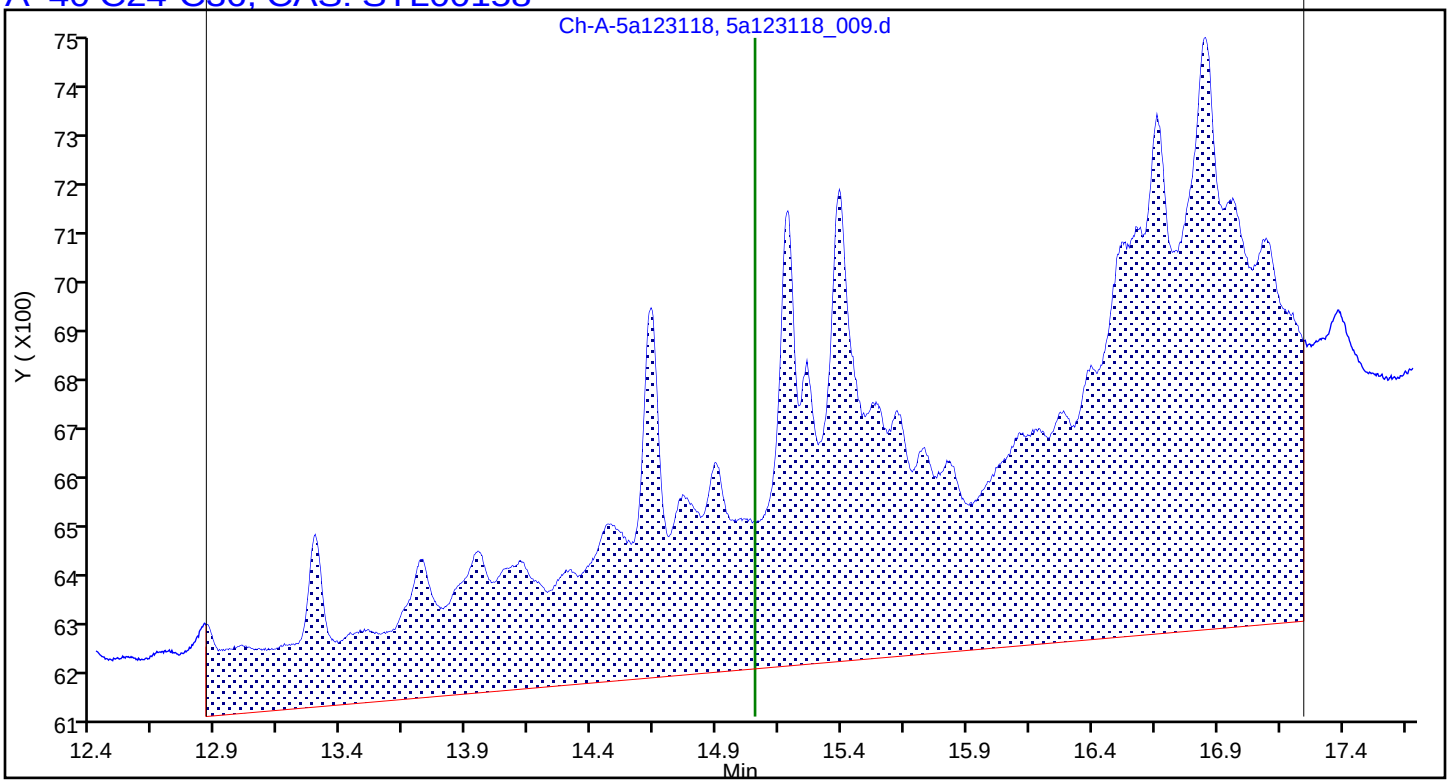


Report Date: 02-Jan-2019 10:36:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_009.d				
Injection Date:	31-Dec-2018 12:59:47	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-12-A	Lab Sample ID:	720-90479-12		
Client ID:	DG-AT5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

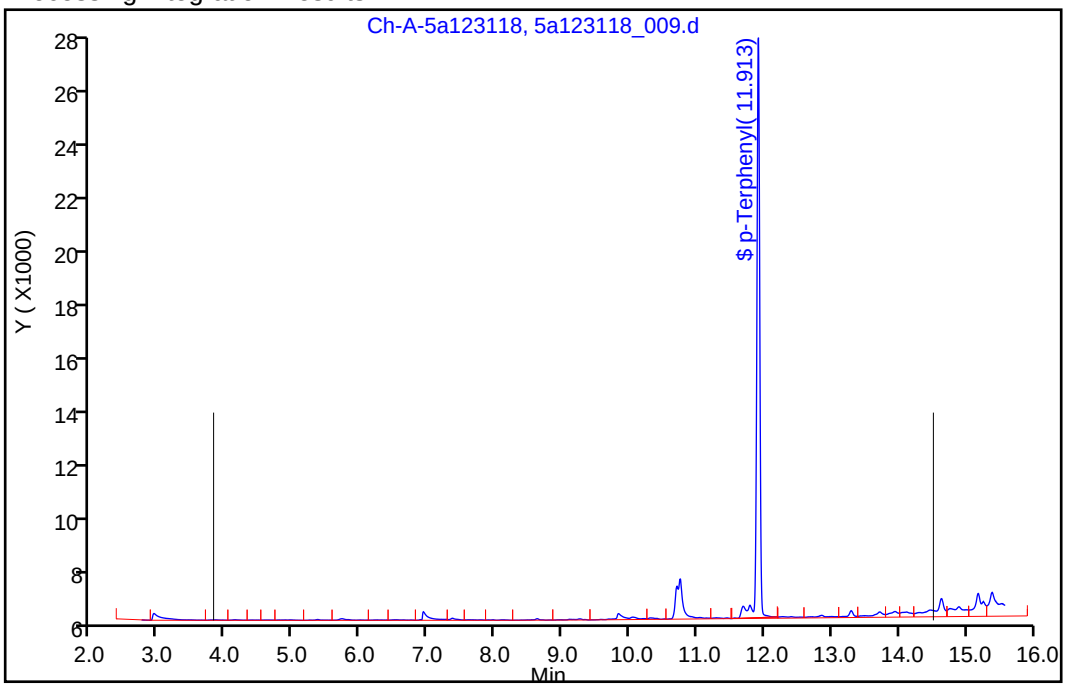
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_009.d				
Injection Date:	31-Dec-2018 12:59:47	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-12-A	Lab Sample ID:	720-90479-12		
Client ID:	DG-AT5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

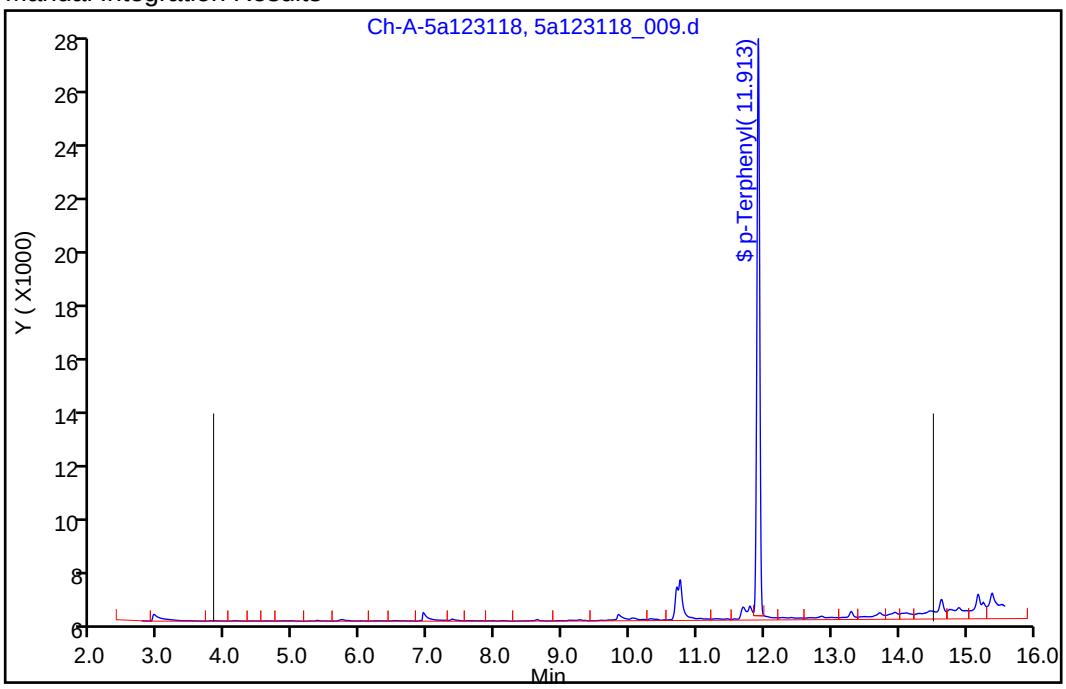
Processing Integration Results

RT: 9.16
Response: 178338
Amount: 18.195874



Manual Integration Results

RT: 9.16
Response: 218456
Amount: 22.289124



Reviewer: luj, 02-Jan-2019 10:36:04

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

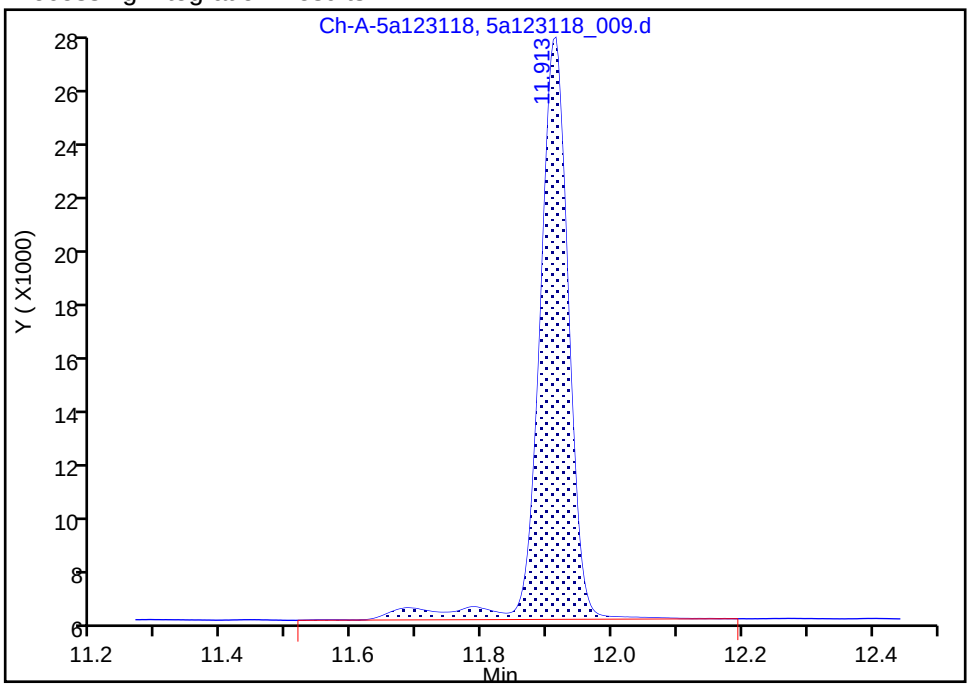
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_009.d				
Injection Date:	31-Dec-2018 12:59:47	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-12-A	Lab Sample ID:	720-90479-12		
Client ID:	DG-AT5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

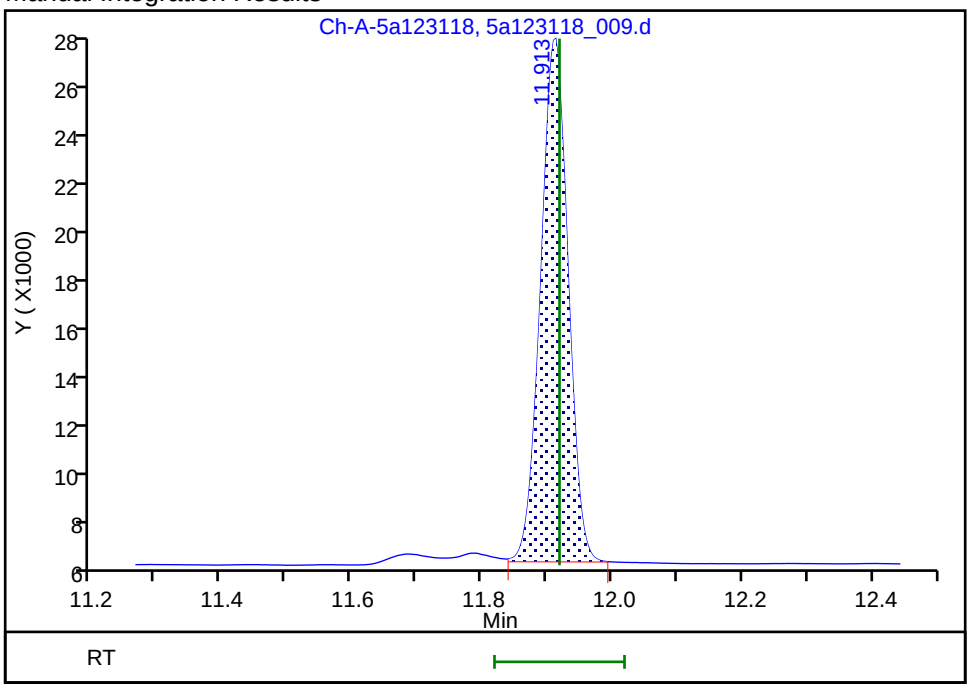
Processing Integration Results

RT: 11.91
Area: 335132
Amount: 28.103516
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 308281
Amount: 25.851843
Amount Units: mg/L



Reviewer: luj, 02-Jan-2019 10:35:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_010.d
Lims ID: 720-90479-F-13-A
Client ID: DG-AT5S-3.5-4
Sample Type: Client
Inject. Date: 31-Dec-2018 13:28:49 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 038 Name: 720-0055894-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:36:57 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:36:57

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.570			ND	
	23 n-Decane	3.811	3.808	0.003	1769	NC	
A	1 C9-C13	4.549	(2.570-6.529)		2061829	NC	M
A	21 Stoddard Solvent	4.549	(2.570-6.529)		2061829	NC	M
A	57 C10-C12	4.766	(3.808-5.725)		10772	1.10	M
	24 Dodecane	5.707	5.725	-0.017	3383	NC	M
A	3 C9 - C17	5.914	(2.570-9.258)		2094725	172.8	M
A	47 C9 - C18	6.210	(2.570-9.851)		2140665	198.9	M
A	60 C10-C16	6.214	(3.808-8.619)		44486	4.04	M
A	15 Kerosene	6.480	(2.570-10.390)		2140665	198.5	M
A	25 C9-C19	6.480	(2.570-10.390)		2140665	175.4	M
	26 C13	6.500	6.529	-0.029	3232	NC	M
$	27 n-Decanoic Acid (Surr)		7.161			ND	MU
A	59 C12-C16	7.172	(5.725-8.619)		37097	3.79	M
A	62 C10-C20	7.367	(3.808-10.926)		206166	21.0	M
A	28 C9-C24	7.714	(2.570-12.858)		2679943	273.4	M
A	29 C9-C25	7.932	(2.570-13.295)		2800664	285.8	M
A	54 C10-C23	8.106	(3.808-12.404)		506134	51.6	M
A	4 C10-C24	8.333	(3.808-12.858)		633578	64.6	M
A	16 C10-C25	8.551	(3.808-13.295)		754299	77.0	M
	45 Hexadecane	8.553	8.619	-0.066	7654	NC	M
A	14 C10-C26	8.762	(3.808-13.716)		861821	87.9	M
A	67 C12-C22	8.828	(5.725-11.931)		439717	44.9	M
A	12 Unknown Hydrocarbons	9.162	(3.808-14.515)		1201531	NC	M
A	32 C10-C28	9.162	(3.808-14.515)		1201531	122.6	M
A	5 Diesel	9.162	(3.808-14.515)		1201531	122.6	M
A	30 C13-C22	9.230	(6.529-11.931)		434874	44.4	M
	44 Heptadecane	9.267	9.258	0.009	13008	NC	M
A	31 C12-C24	9.291	(5.725-12.858)		626189	63.9	M
	49 n-Octadecane		9.851			ND	
A	9 Crude Oil Range Organics (	9.909	(2.570-17.247)		2750571	NC	
A	52 Mineral oil	9.909	(2.570-17.247)		2750571	245.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.909	(2.570-17.247)		4649396	NC	M
33 C19		10.390			ND	
A 64 C13-C28	10.522	(6.529-14.515)		1189299	121.3	M
A 17 C10-C36	10.528	(3.808-17.247)		2603031	265.6	M
A 13 C9-C40	10.691	(2.570-18.812)		3321141	379.8	
A 68 Crude Oil Range Organics (	10.691	(2.570-18.812)		3321141	NC	
A 58 C16-C24	10.739	(8.619-12.858)		596746	60.9	M
61 icosane		10.926			ND	
A 6 C10-C40	11.310	(3.808-18.812)		3305315	378.3	
$ 34 p-Terphenyl	11.910	11.919	-0.009	303441	25.4	M
35 n-Docosane		11.931			ND	
A 18 C12-C40	12.268	(5.725-18.812)		3293759	377.3	
36 Tricosane		12.404			ND	
A 66 C13-C40	12.671	(6.529-18.812)		3286802	376.6	
37 n-Tetracosane	12.853	12.858	-0.005	127444	NC	M
A 2 C16-C36 ORO	12.933	(8.619-17.247)		2672282	352.1	
38 C25		13.295			ND	
A 19 C16-C40	13.716	(8.619-18.812)		3242852	371.5	
46 n-Hexacosane	13.690	13.716	-0.026	65809	NC	M
A 20 C19-C36	13.818	(10.390-17.247)		2352214	272.6	
A 55 C23-C32	14.183	(12.404-15.963)		1487990	312.9	
39 n-Octacosane	14.460	14.515	-0.055	191886	NC	M
65 C29		14.895			ND	
A 7 Motor Oil	15.052	(12.858-17.247)		1917118	314.7	
A 40 C24-C36	15.052	(12.858-17.247)		1917118	314.7	
A 50 C25-C36	15.271	(13.295-17.247)		1779747	307.6	
A 10 C22-C40	15.372	(11.931-18.812)		2371253	283.6	
A 41 C23-C40	15.608	(12.404-18.812)		2530040	308.5	
A 8 C24-C40	15.835	(12.858-18.812)		2438103	306.5	
56 Dotriacontane	15.957	15.963	-0.006	109265	NC	M
A 51 C28-C40	16.664	(14.515-18.812)		1881507	281.5	
A 63 C29-C40	16.853	(14.895-18.812)		1687876	275.5	
42 n-Hexatriacontane	17.153	17.247	-0.094	277445	NC	M
43 C40		18.812			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

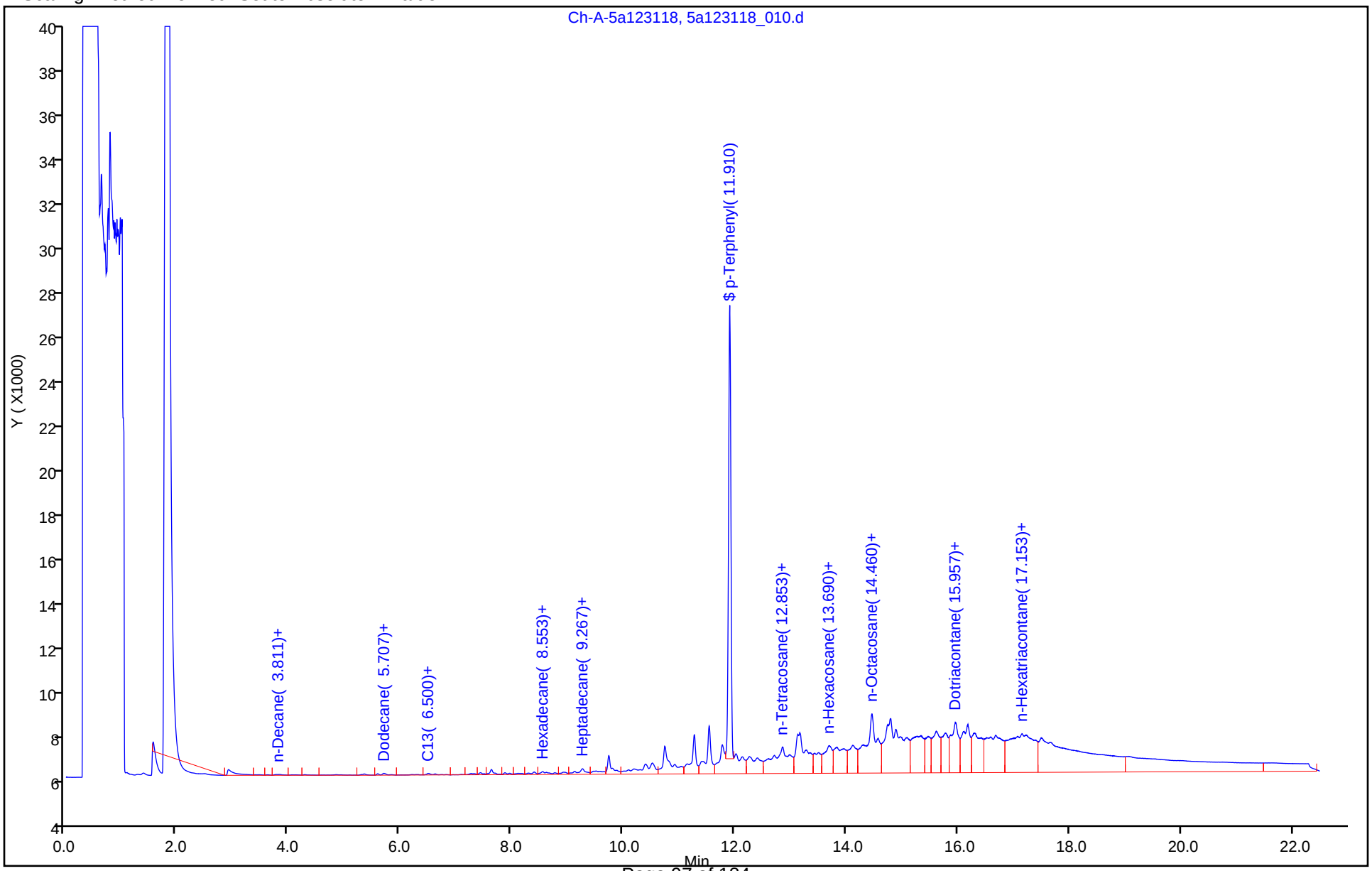
Report Date: 02-Jan-2019 10:36:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_010.d

Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-13-A	Lab Sample ID:	720-90479-13	Worklist Smp#:	10
Client ID:	DG-AT5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_010.d				
Lims ID:	720-90479-F-13-A				
Client ID:	DG-AT5S-3.5-4				
Sample Type:	Client				
Inject. Date:	31-Dec-2018 13:28:49	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 038 Name: 720-0055894-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	02-Jan-2019 10:36:57	Calib Date:	31-Dec-2018 09:13:06		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0316				

First Level Reviewer: luj Date: 02-Jan-2019 10:36:57

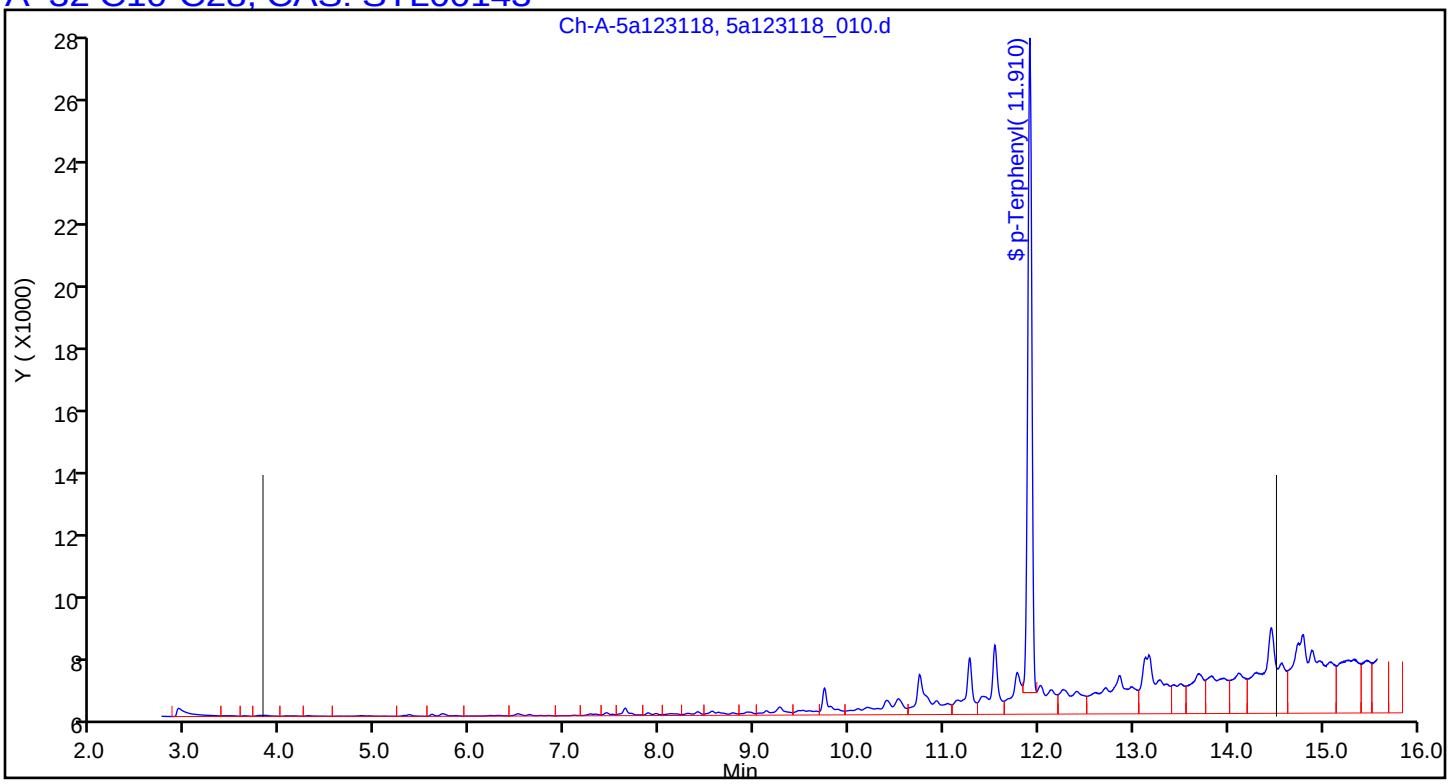
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.4	101.78

Report Date: 02-Jan-2019 10:36:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_010.d				
Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-13-A	Lab Sample ID:	720-90479-13		
Client ID:	DG-AT5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

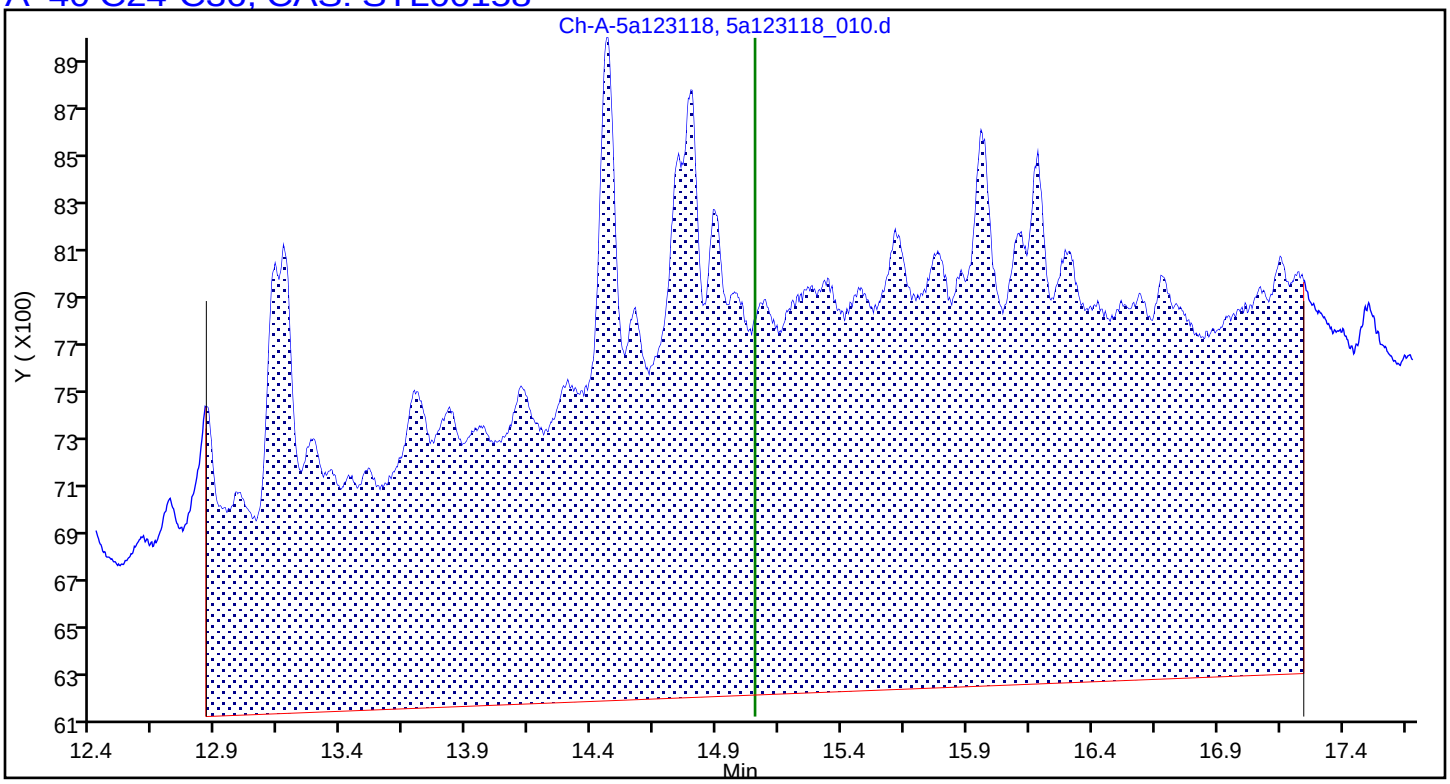


Report Date: 02-Jan-2019 10:37:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_010.d				
Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-13-A	Lab Sample ID:	720-90479-13		
Client ID:	DG-AT5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

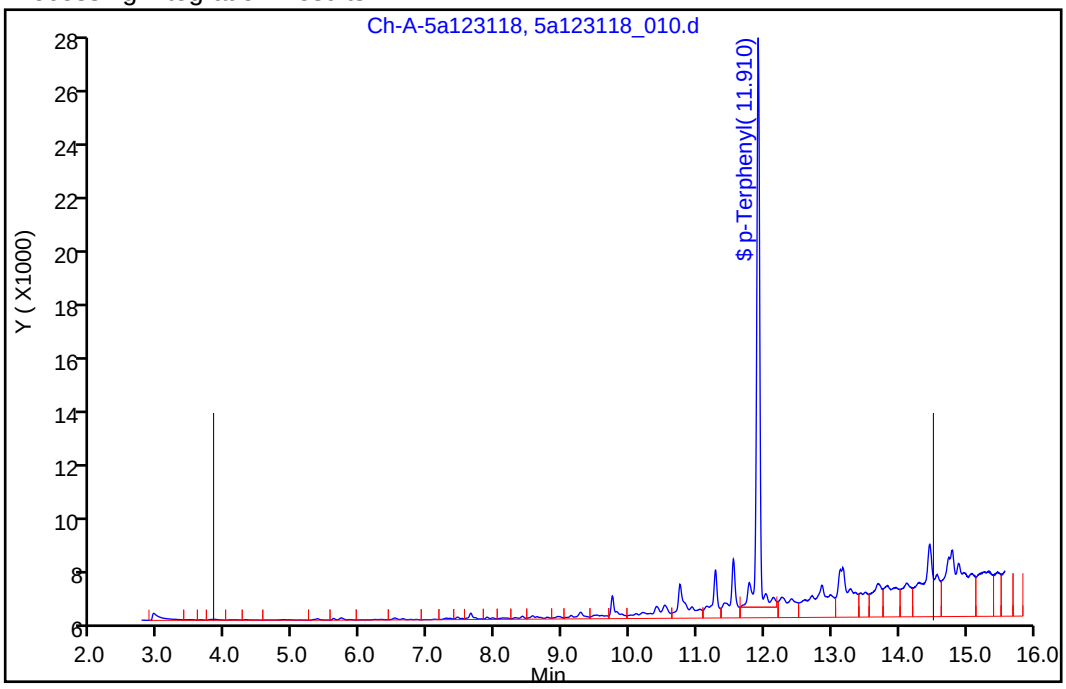
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Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-13-A	Lab Sample ID:	720-90479-13		
Client ID:	DG-AT5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

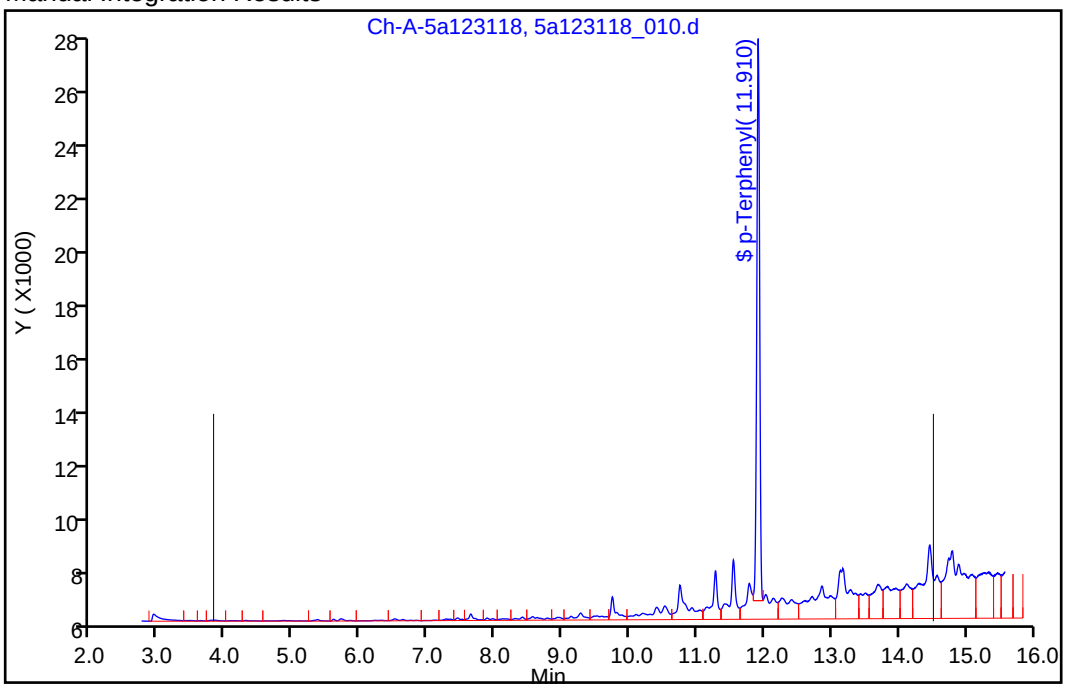
Processing Integration Results

RT: 9.16
Response: 1098712
Amount: 112.1019



Manual Integration Results

RT: 9.16
Response: 1201531
Amount: 122.5925



Reviewer: luj, 02-Jan-2019 10:36:32

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

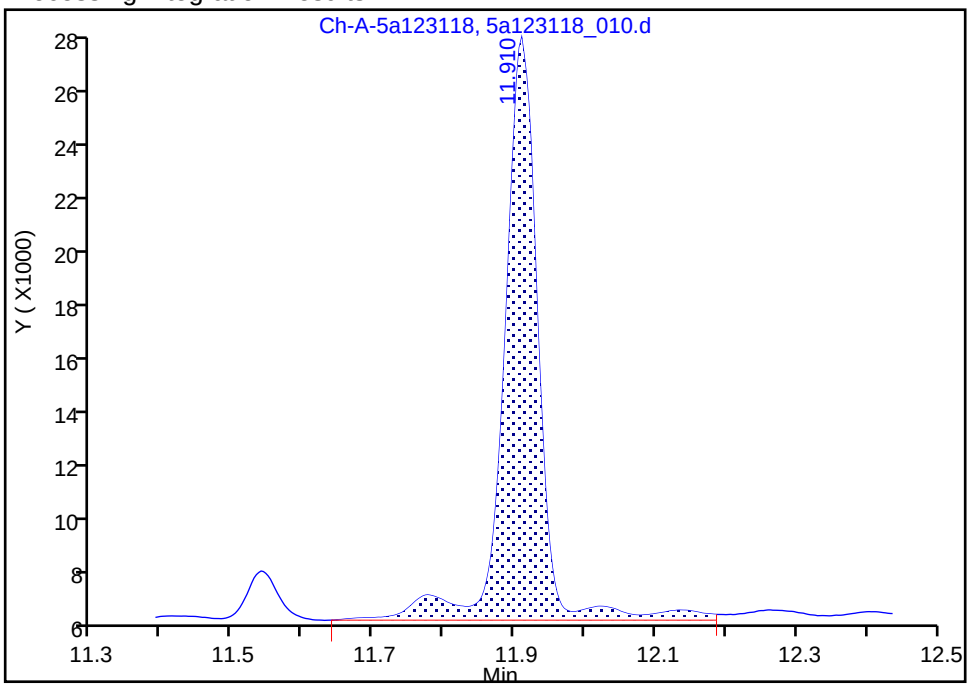
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_010.d				
Injection Date:	31-Dec-2018 13:28:49	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-13-A	Lab Sample ID:	720-90479-13		
Client ID:	DG-AT5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

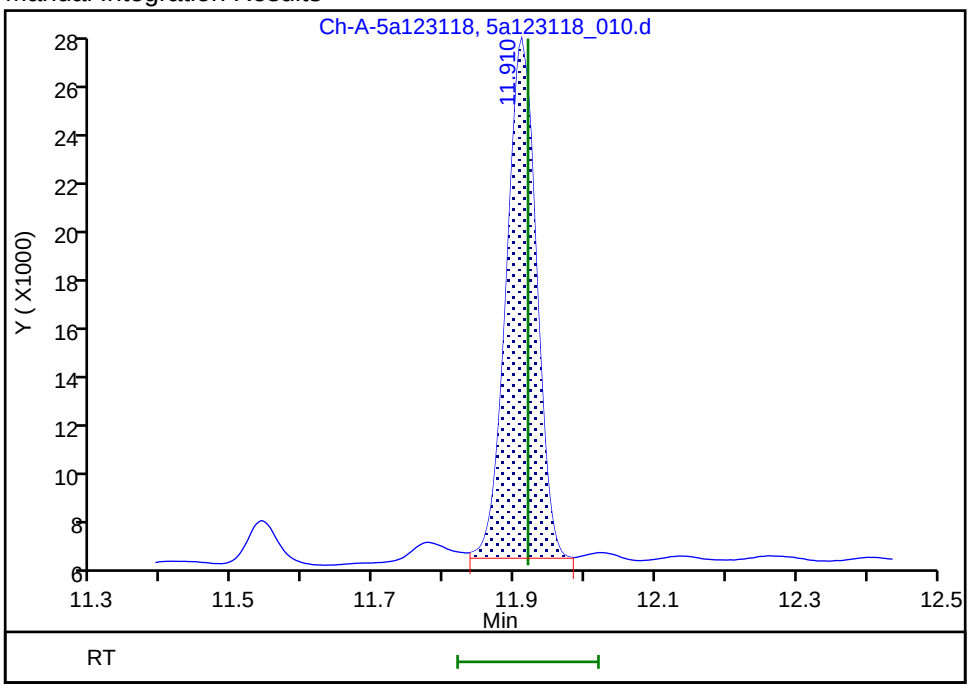
Processing Integration Results

RT: 11.91
Area: 355455
Amount: 29.807763
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 303441
Amount: 25.445970
Amount Units: mg/L



Reviewer: luj, 02-Jan-2019 10:36:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_011.d
Lims ID: 720-90479-F-14-A
Client ID: DUP-18
Sample Type: Client
Inject. Date: 31-Dec-2018 13:57:39 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 041 Name: 720-0055894-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:38:37 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:38:37

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.481	2.570	-0.089	915	NC	
23 n-Decane	3.832	3.808	0.024	1541	NC	
A 1 C9-C13	4.549	(2.570-6.529)		31655	NC	
A 21 Stoddard Solvent	4.549	(2.570-6.529)		31655	NC	
A 57 C10-C12	4.766	(3.808-5.725)		11529	1.18	
24 Dodecane	5.704	5.725	-0.020	3973	NC	
A 3 C9 - C17	5.914	(2.570-9.258)		75033	6.19	
A 47 C9 - C18	6.210	(2.570-9.851)		122543	11.4	
A 60 C10-C16	6.214	(3.808-8.619)		44043	4.00	
A 15 Kerosene	6.480	(2.570-10.390)		122543	11.4	
A 25 C9-C19	6.480	(2.570-10.390)		122543	10.0	
26 C13	6.507	6.529	-0.022	3065	NC	
$ 27 n-Decanoic Acid (Surr)		7.161			ND	
A 59 C12-C16	7.172	(5.725-8.619)		36487	3.72	
A 62 C10-C20	7.367	(3.808-10.926)		361556	36.9	
A 28 C9-C24	7.714	(2.570-12.858)		1069772	109.1	
A 29 C9-C25	7.932	(2.570-13.295)		1290711	131.7	
A 54 C10-C23	8.106	(3.808-12.404)		740592	75.6	
A 4 C10-C24	8.333	(3.808-12.858)		1053494	107.5	
A 16 C10-C25	8.551	(3.808-13.295)		1274433	130.0	
45 Hexadecane	8.571	8.619	-0.048	4920	NC	
A 14 C10-C26	8.762	(3.808-13.716)		1476705	150.7	
A 67 C12-C22	8.828	(5.725-11.931)		552181	56.3	
A 12 Unknown Hydrocarbons	9.162	(3.808-14.515)		1865238	NC	M
A 32 C10-C28	9.162	(3.808-14.515)		1865238	190.3	M
A 5 Diesel	9.162	(3.808-14.515)		1865238	190.3	M
A 30 C13-C22	9.230	(6.529-11.931)		547425	55.9	
44 Heptadecane	9.267	9.258	0.009	11057	NC	
A 31 C12-C24	9.291	(5.725-12.858)		1045938	106.7	
49 n-Octadecane	9.838	9.851	-0.013	29599	NC	
A 9 Crude Oil Range Organics (	9.909	(2.570-17.247)		4299794	NC	
A 52 Mineral oil	9.909	(2.570-17.247)		4299794	383.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.909	(2.570-17.247)		3903536	NC	M
33 C19	10.391	10.390	0.001	51025	NC	
A 64 C13-C28	10.522	(6.529-14.515)		1852926	189.1	M
A 17 C10-C36	10.528	(3.808-17.247)		3887258	396.6	M
A 13 C9-C40	10.691	(2.570-18.812)		5058319	601.2	
A 68 Crude Oil Range Organics (	10.691	(2.570-18.812)		5058319	NC	
A 58 C16-C24	10.739	(8.619-12.858)		1014371	103.5	
61 icosane		10.926			ND	
A 6 C10-C40	11.310	(3.808-18.812)		5040838	599.4	
$ 34 p-Terphenyl	11.913	11.919	-0.006	301054	25.2	M
35 n-Docosane		11.931			ND	
A 18 C12-C40	12.268	(5.725-18.812)		5029395	598.4	
36 Tricosane	12.411	12.404	0.007	131438	NC	
A 66 C13-C40	12.671	(6.529-18.812)		5022176	597.7	
37 n-Tetracosane	12.856	12.858	-0.002	181464	NC	
A 2 C16-C36 ORO	12.933	(8.619-17.247)		4211955	555.0	
38 C25	13.294	13.295	-0.001	155502	NC	
A 19 C16-C40	13.716	(8.619-18.812)		4970480	591.7	
46 n-Hexacosane	13.707	13.716	-0.009	202272	NC	
A 20 C19-C36	13.818	(10.390-17.247)		3830460	443.9	
A 55 C23-C32	14.183	(12.404-15.963)		2289664	481.5	
39 n-Octacosane		14.515			ND	
65 C29	14.895	14.895	0.000	203243	NC	
A 7 Motor Oil	15.052	(12.858-17.247)		2968090	487.2	
A 40 C24-C36	15.052	(12.858-17.247)		2968090	487.2	
A 50 C25-C36	15.271	(13.295-17.247)		2761843	477.4	
A 10 C22-C40	15.372	(11.931-18.812)		3800495	454.6	
A 41 C23-C40	15.608	(12.404-18.812)		3865515	471.3	
A 8 C24-C40	15.835	(12.858-18.812)		3671625	461.5	
56 Dotriacontane	15.964	15.963	0.001	118805	NC	
A 51 C28-C40	16.664	(14.515-18.812)		2769739	431.5	
A 63 C29-C40	16.853	(14.895-18.812)		2499176	427.5	
42 n-Hexatriacontane	17.264	17.247	0.017	265206	NC	
43 C40		18.812			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

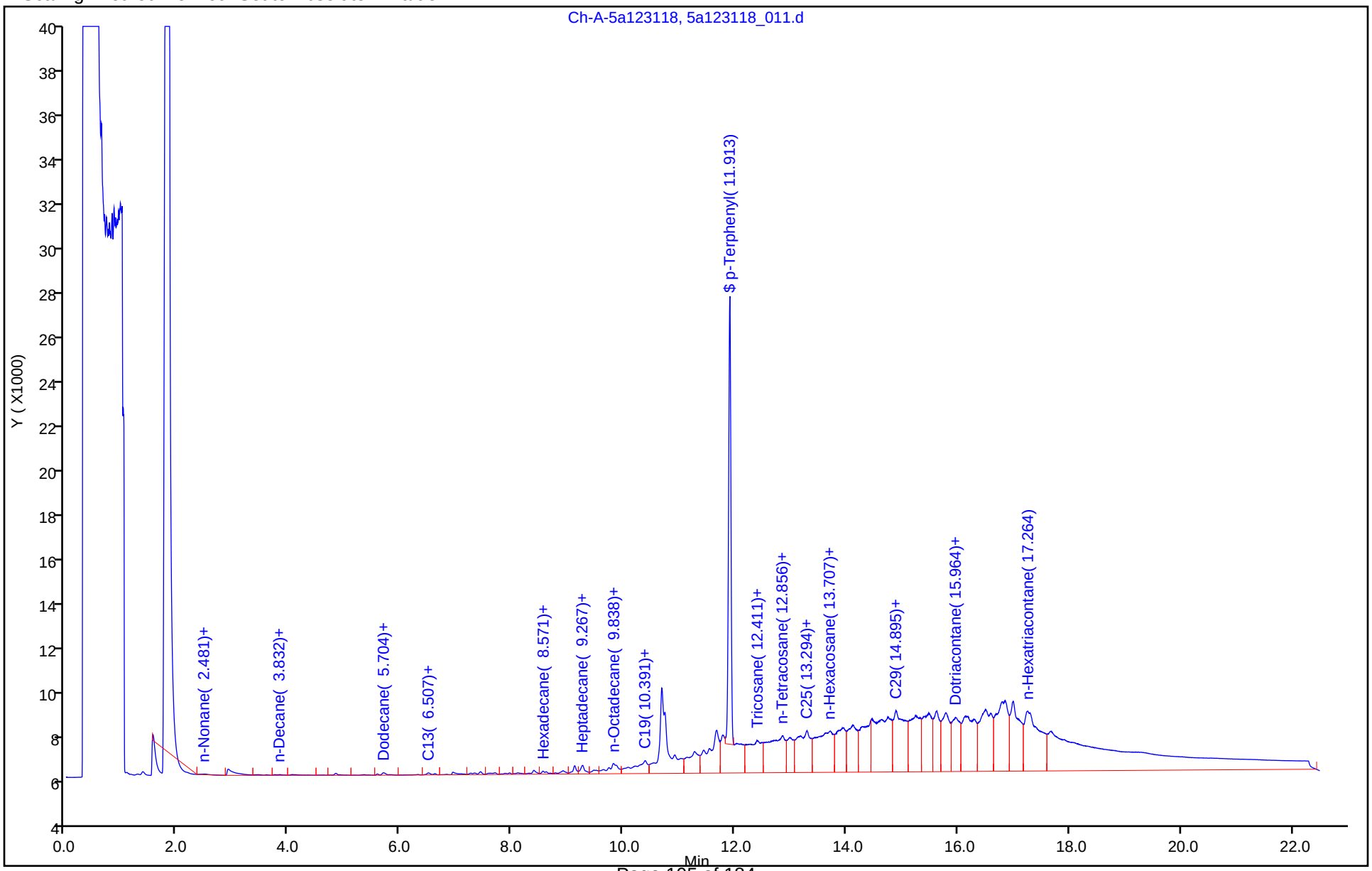
Report Date: 02-Jan-2019 10:38:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_011.d

Injection Date:	31-Dec-2018 13:57:39	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-14-A	Lab Sample ID:	720-90479-14	Worklist Smp#:	11
Client ID:	DUP-18				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_011.d				
Lims ID:	720-90479-F-14-A				
Client ID:	DUP-18				
Sample Type:	Client				
Inject. Date:	31-Dec-2018 13:57:39	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 041 Name: 720-0055894-011				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	02-Jan-2019 10:38:37	Calib Date:	31-Dec-2018 09:13:06		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0316				

First Level Reviewer: luj Date: 02-Jan-2019 10:38:37

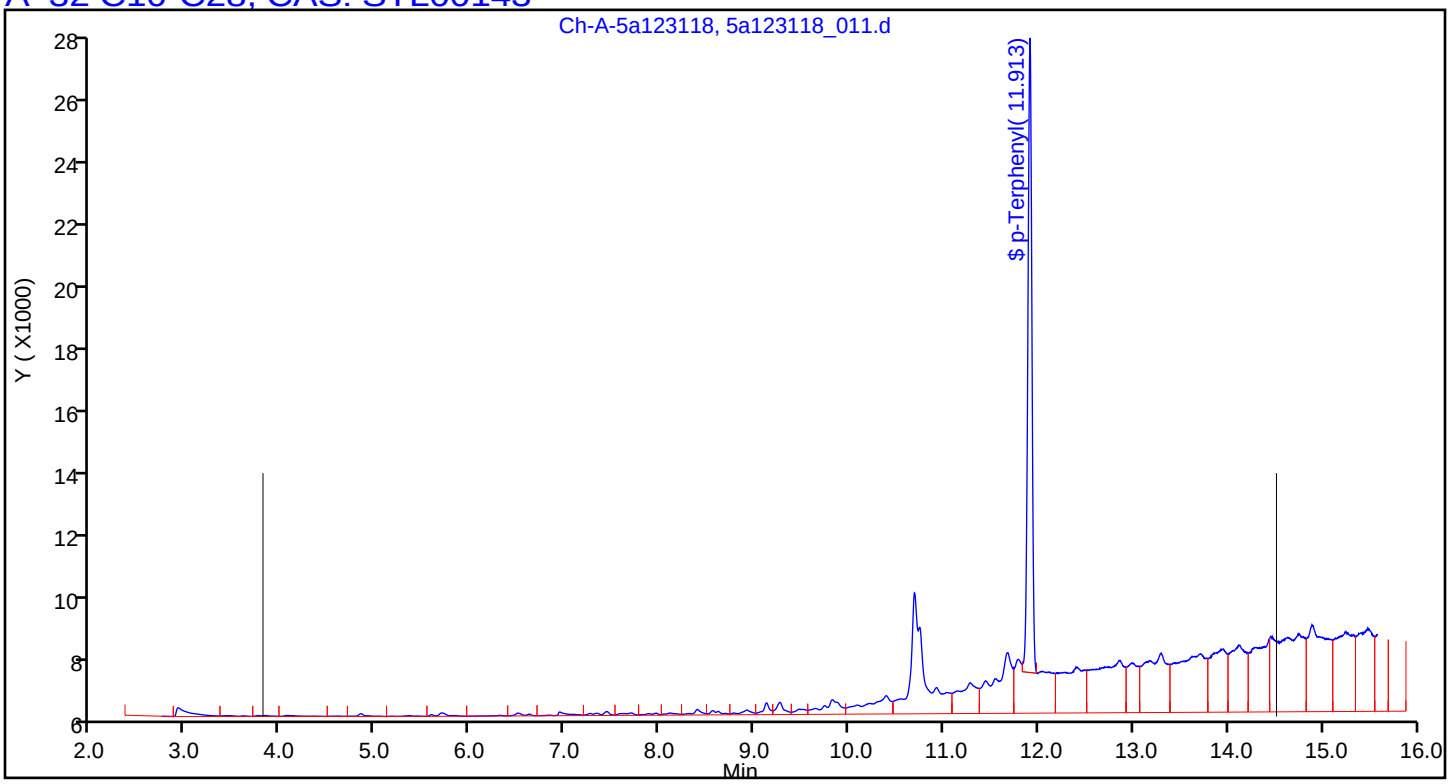
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.2	100.98

Report Date: 02-Jan-2019 10:38:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_011.d				
Injection Date:	31-Dec-2018 13:57:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-14-A	Lab Sample ID:	720-90479-14		
Client ID:	DUP-18				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

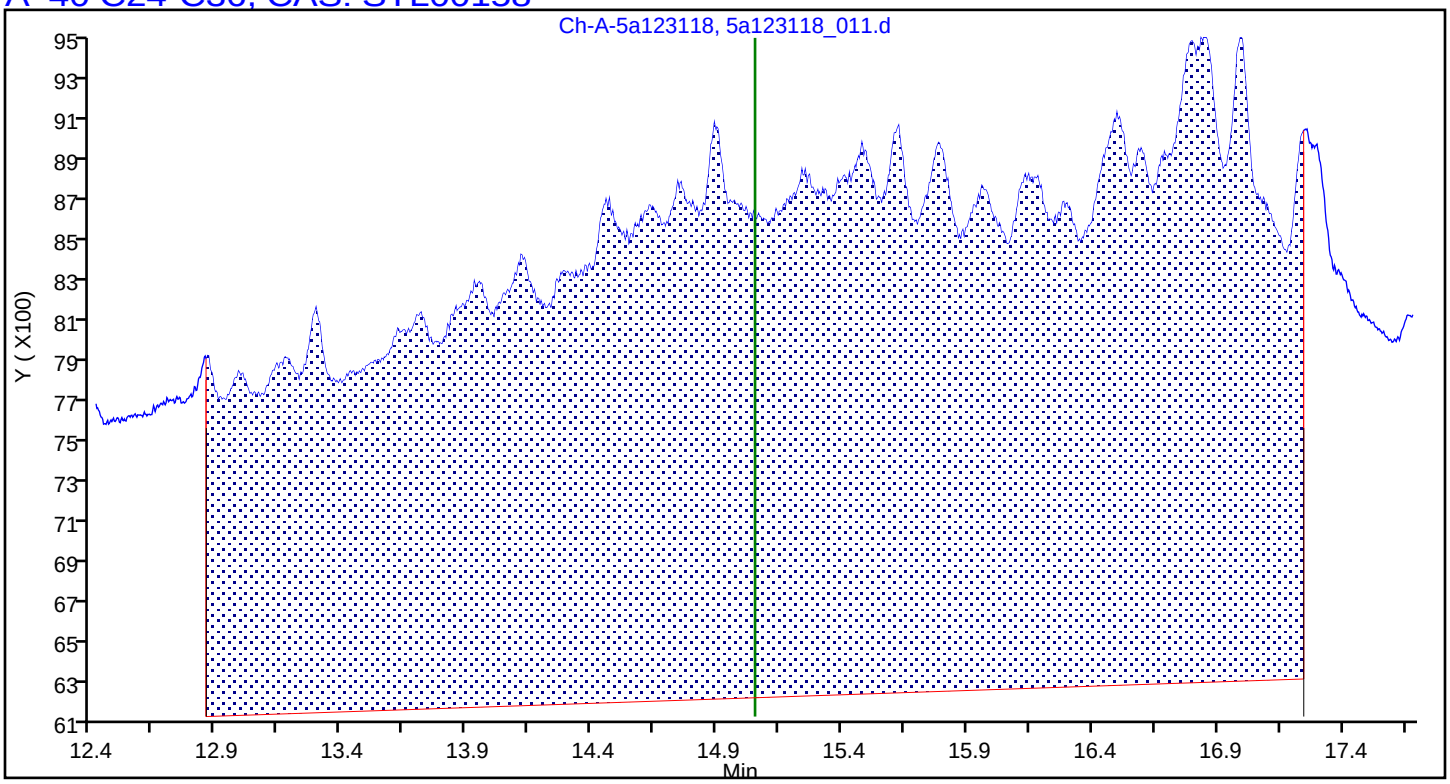


Report Date: 02-Jan-2019 10:38:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_011.d				
Injection Date:	31-Dec-2018 13:57:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-14-A	Lab Sample ID:	720-90479-14		
Client ID:	DUP-18				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

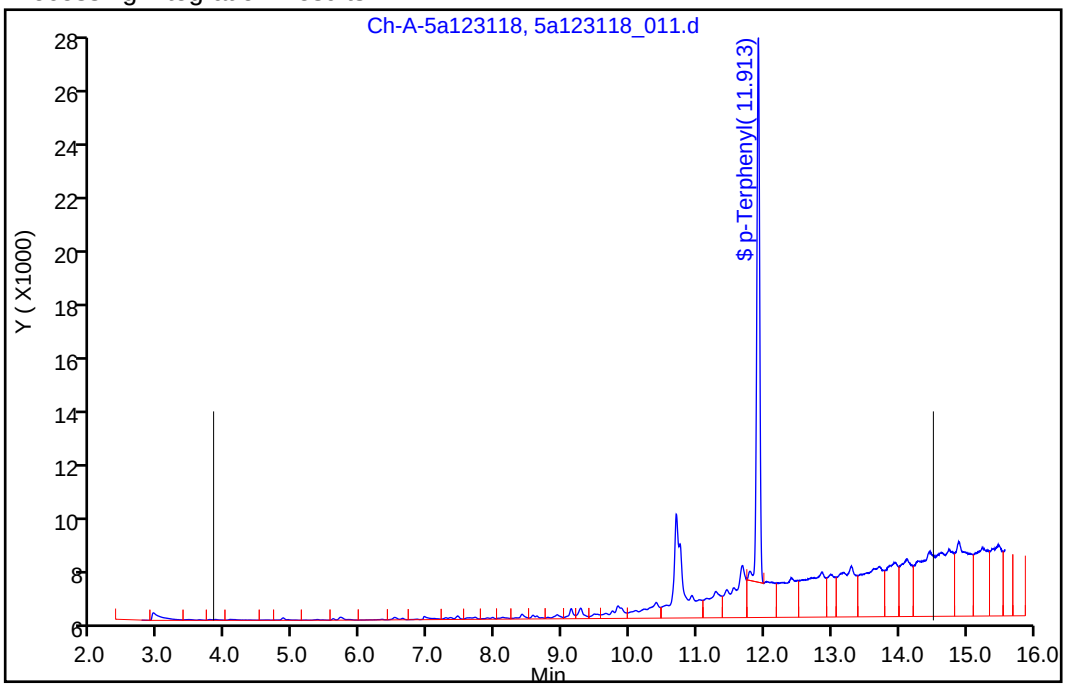
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Injection Date:	31-Dec-2018 13:57:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-14-A	Lab Sample ID:	720-90479-14		
Client ID:	DUP-18				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

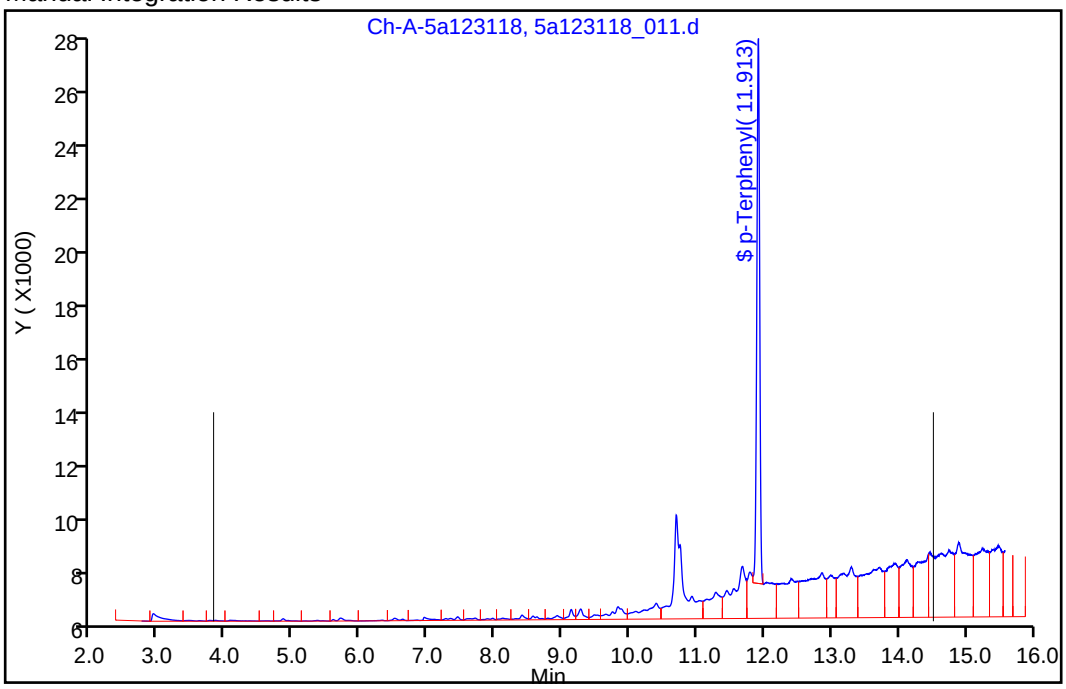
Processing Integration Results

RT: 9.16
Response: 1718306
Amount: 175.3192



Manual Integration Results

RT: 9.16
Response: 1865238
Amount: 190.3107



Reviewer: luj, 02-Jan-2019 10:38:07

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

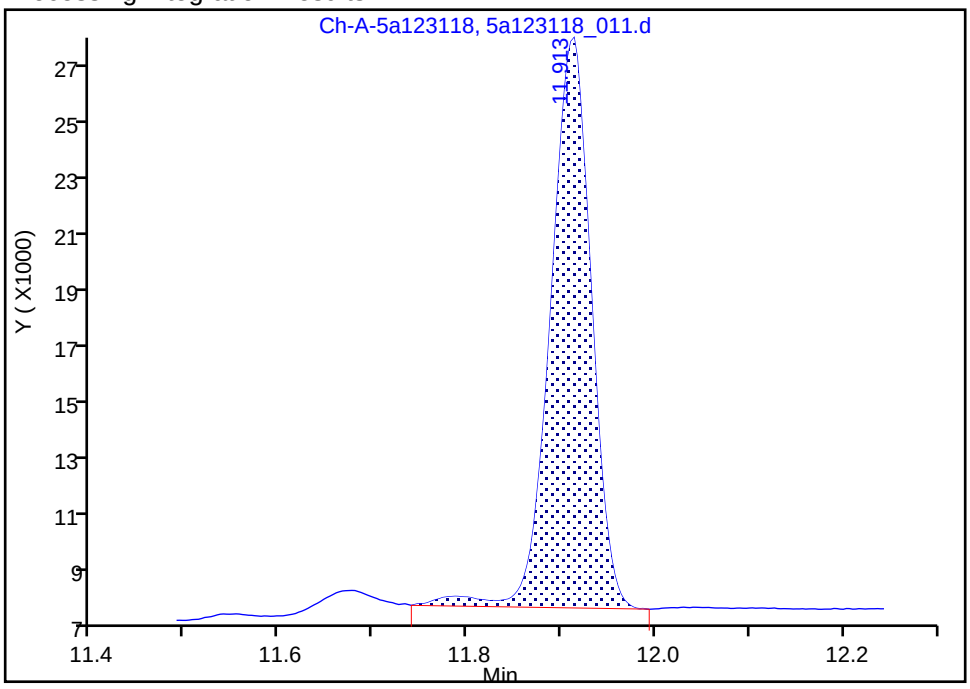
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Injection Date:	31-Dec-2018 13:57:39	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-14-A	Lab Sample ID:	720-90479-14		
Client ID:	DUP-18				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

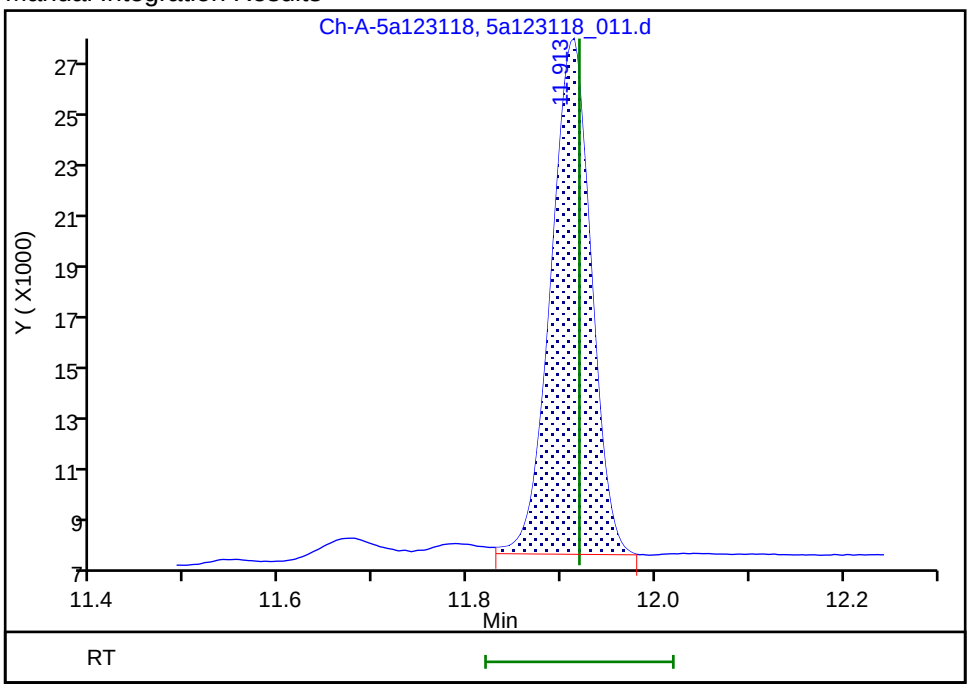
Processing Integration Results

RT: 11.91
Area: 306429
Amount: 25.696538
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 301054
Amount: 25.245801
Amount Units: mg/L



Reviewer: luj, 02-Jan-2019 10:38:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_012.d
Lims ID: 720-90479-F-15-A
Client ID: DG-AR5S-0.5-1
Sample Type: Client
Inject. Date: 31-Dec-2018 14:26:46 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 042 Name: 720-0055894-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:39:33 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:39:33

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.570			ND	
23 n-Decane	3.836	3.808	0.028	1012	NC	
A 1 C9-C13	4.549	(2.570-6.529)		17587	NC	
A 21 Stoddard Solvent	4.549	(2.570-6.529)		17587	NC	
A 57 C10-C12	4.766	(3.808-5.725)		5188	0.5293	
24 Dodecane	5.721	5.725	-0.003	1569	NC	
A 3 C9 - C17	5.914	(2.570-9.258)		24606	2.03	
A 47 C9 - C18	6.210	(2.570-9.851)		25651	2.38	
A 60 C10-C16	6.214	(3.808-8.619)		10583	0.9602	
A 15 Kerosene	6.480	(2.570-10.390)		32443	3.01	M
A 25 C9-C19	6.480	(2.570-10.390)		32443	2.66	M
26 C13	6.560	6.529	0.031	1313	NC	
$ 27 n-Decanoic Acid (Surr)		7.161			ND	
A 59 C12-C16	7.172	(5.725-8.619)		6964	0.7105	
A 62 C10-C20	7.367	(3.808-10.926)		38220	3.90	M
A 28 C9-C24	7.714	(2.570-12.858)		78839	8.04	M
A 29 C9-C25	7.932	(2.570-13.295)		78839	8.04	M
A 54 C10-C23	8.106	(3.808-12.404)		60760	6.20	M
A 4 C10-C24	8.333	(3.808-12.858)		66440	6.78	M
A 16 C10-C25	8.551	(3.808-13.295)		66440	6.78	M
45 Hexadecane	8.621	8.619	0.002	1128	NC	
A 14 C10-C26	8.762	(3.808-13.716)		73987	7.55	M
A 67 C12-C22	8.828	(5.725-11.931)		54273	5.54	M
A 12 Unknown Hydrocarbons	9.162	(3.808-14.515)		109549	NC	M
A 32 C10-C28	9.162	(3.808-14.515)		109549	11.2	M
A 5 Diesel	9.162	(3.808-14.515)		109549	11.2	M
A 30 C13-C22	9.230	(6.529-11.931)		52704	5.38	M
44 Heptadecane	9.260	9.258	0.002	1045	NC	
A 31 C12-C24	9.291	(5.725-12.858)		62821	6.41	M
49 n-Octadecane	9.882	9.851	0.031	2662	NC	
A 9 Crude Oil Range Organics (	9.909	(2.570-17.247)		597395	NC	
A 52 Mineral oil	9.909	(2.570-17.247)		597395	53.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.909	(2.570-17.247)		253349	NC	M
33 C19		10.390			ND	
A 64 C13-C28	10.522	(6.529-14.515)		104361	10.6	M
A 17 C10-C36	10.528	(3.808-17.247)		240950	24.6	M
A 13 C9-C40	10.691	(2.570-18.812)		924340	74.3	
A 68 Crude Oil Range Organics (	10.691	(2.570-18.812)		924340	NC	
A 58 C16-C24	10.739	(8.619-12.858)		55857	5.70	M
61 icosane		10.926			ND	
A 6 C10-C40	11.310	(3.808-18.812)		904809	72.4	
$ 34 p-Terphenyl	11.913	11.919	-0.006	317210	26.6	M
35 n-Docosane		11.931			ND	
A 18 C12-C40	12.268	(5.725-18.812)		894966	71.7	
36 Tricosane	12.393	12.404	-0.011	2868	NC	M
A 66 C13-C40	12.671	(6.529-18.812)		892181	71.5	
37 n-Tetracosane	12.843	12.858	-0.015	5680	NC	M
A 2 C16-C36 ORO	12.933	(8.619-17.247)		557305	73.4	
38 C25	13.300	13.295	0.005	7547	NC	M
A 19 C16-C40	13.716	(8.619-18.812)		884250	70.8	
46 n-Hexacosane		13.716			ND	
A 20 C19-C36	13.818	(10.390-17.247)		312562	36.2	
A 55 C23-C32	14.183	(12.404-15.963)		253928	53.4	
39 n-Octacosane		14.515			ND	
65 C29	14.890	14.895	-0.005	20424	NC	M
A 7 Motor Oil	15.052	(12.858-17.247)		312426	51.3	
A 40 C24-C36	15.052	(12.858-17.247)		312426	51.3	
A 50 C25-C36	15.271	(13.295-17.247)		310488	53.7	
A 10 C22-C40	15.372	(11.931-18.812)		332462	39.8	
A 41 C23-C40	15.608	(12.404-18.812)		587252	71.6	
A 8 C24-C40	15.835	(12.858-18.812)		587671	73.9	
56 Dotriacontane		15.963			ND	
A 51 C28-C40	16.664	(14.515-18.812)		550918	66.6	
A 63 C29-C40	16.853	(14.895-18.812)		530178	68.9	
42 n-Hexatriacontane		17.247			ND	
43 C40		18.812			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

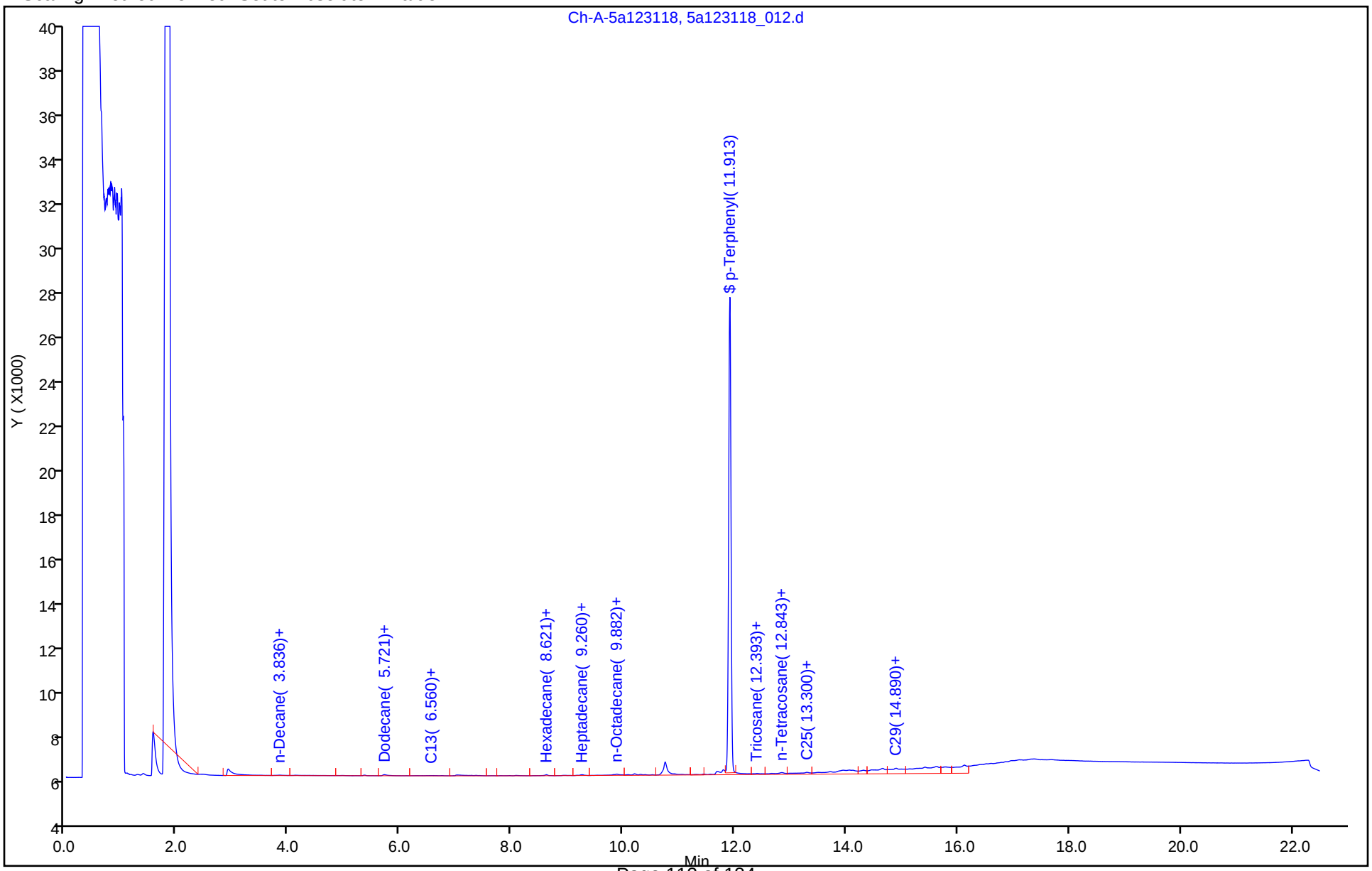
Report Date: 02-Jan-2019 10:39:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_012.d

Injection Date:	31-Dec-2018 14:26:46	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-15-A	Lab Sample ID:	720-90479-15	Worklist Smp#:	12
Client ID:	DG-AR5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_012.d				
Lims ID:	720-90479-F-15-A				
Client ID:	DG-AR5S-0.5-1				
Sample Type:	Client				
Inject. Date:	31-Dec-2018 14:26:46	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 042 Name: 720-0055894-012				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	02-Jan-2019 10:39:33	Calib Date:	31-Dec-2018 09:13:06		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0316				

First Level Reviewer: luj Date: 02-Jan-2019 10:39:33

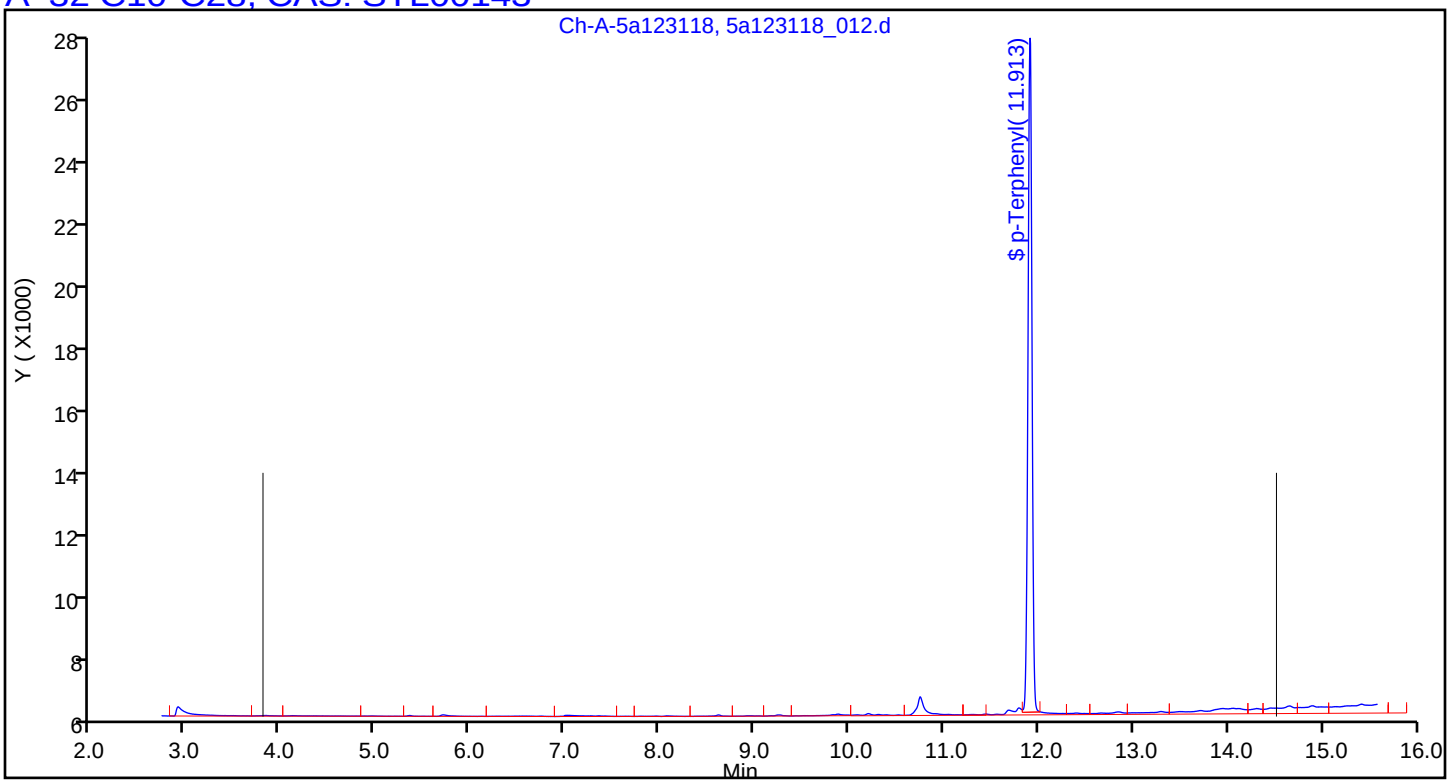
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.6	106.40

Report Date: 02-Jan-2019 10:39:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_012.d				
Injection Date:	31-Dec-2018 14:26:46	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-15-A	Lab Sample ID:	720-90479-15		
Client ID:	DG-AR5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

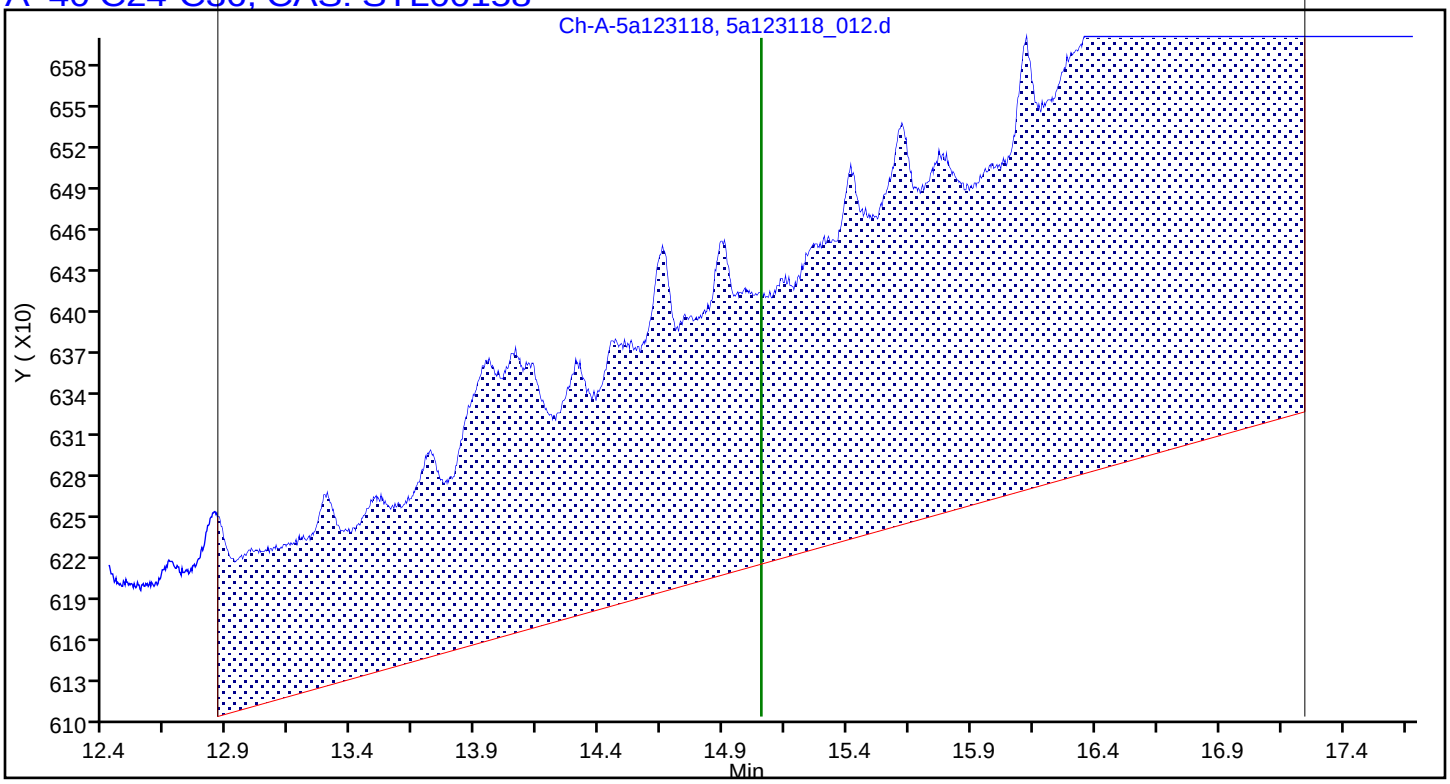


Report Date: 02-Jan-2019 10:39:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_012.d				
Injection Date:	31-Dec-2018 14:26:46	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-15-A	Lab Sample ID:	720-90479-15		
Client ID:	DG-AR5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

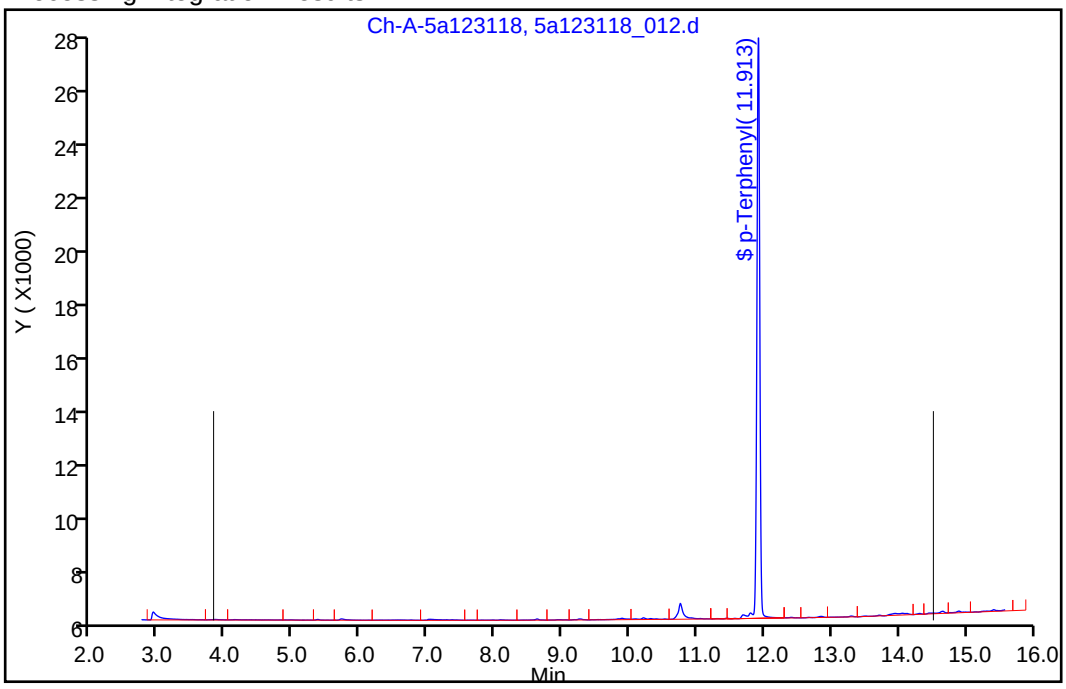
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_012.d				
Injection Date:	31-Dec-2018 14:26:46	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-15-A	Lab Sample ID:	720-90479-15		
Client ID:	DG-AR5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

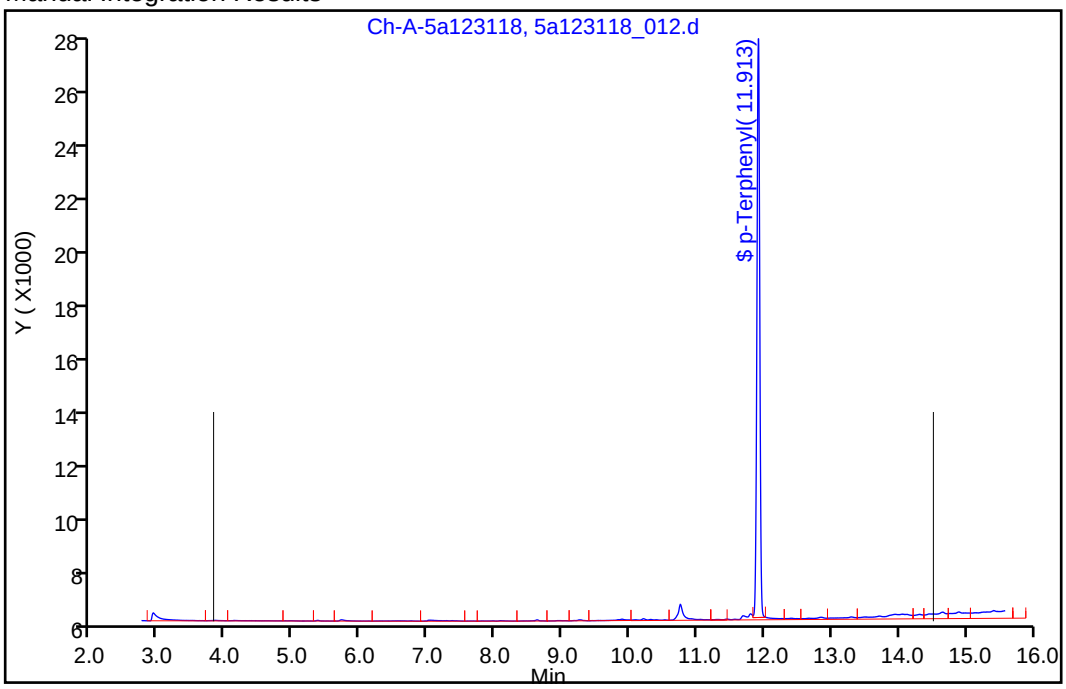
Processing Integration Results

RT: 9.16
Response: 45129
Amount: 4.604524



Manual Integration Results

RT: 9.16
Response: 109549
Amount: 11.177314



Reviewer: luj, 02-Jan-2019 10:39:13

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

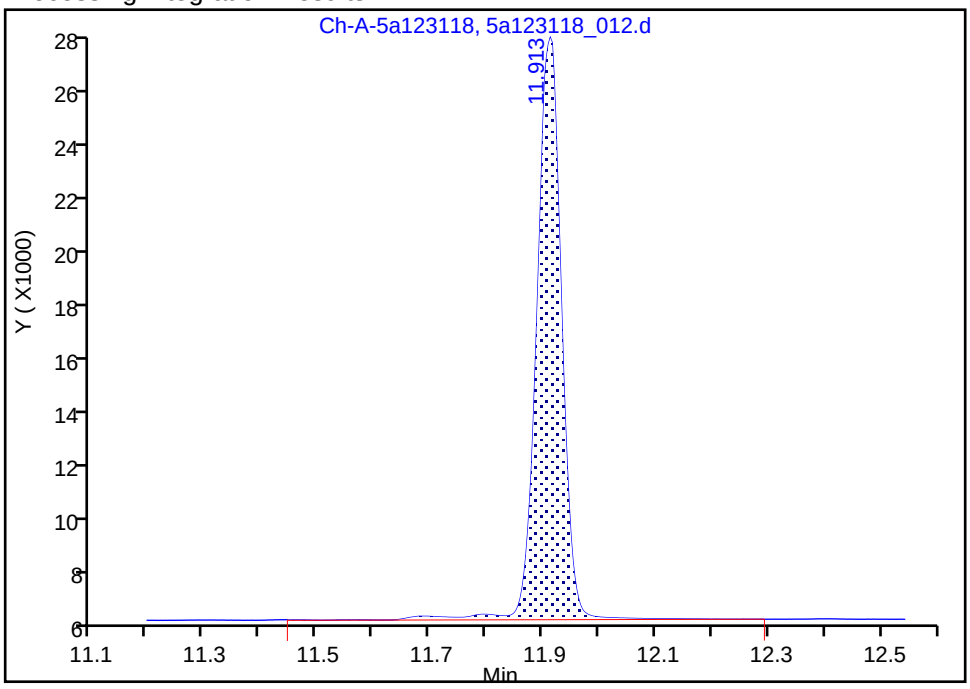
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_012.d				
Injection Date:	31-Dec-2018 14:26:46	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-15-A	Lab Sample ID:	720-90479-15		
Client ID:	DG-AR5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

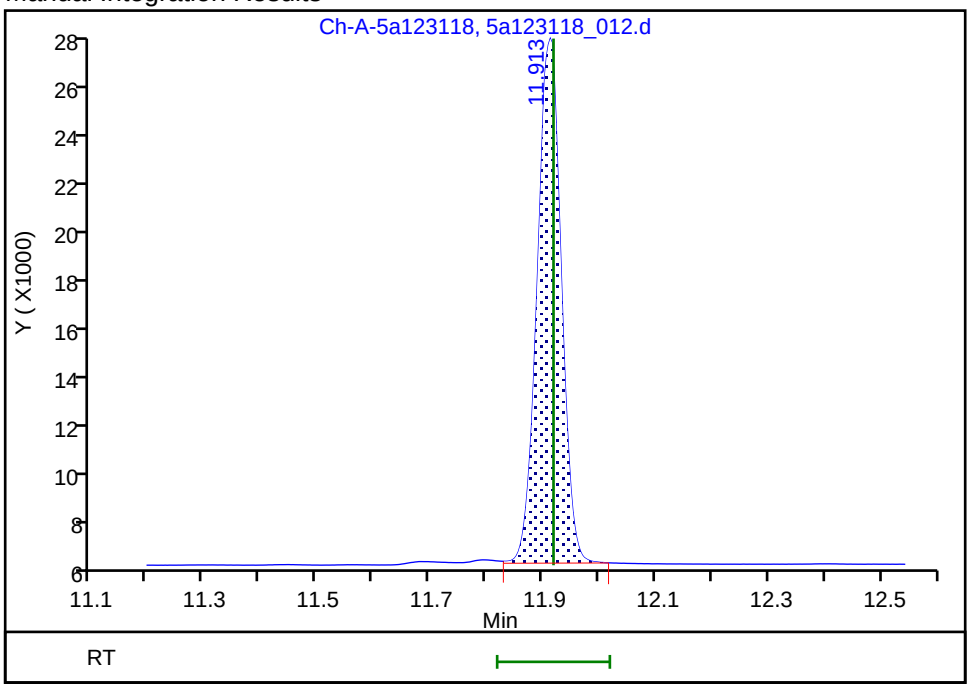
Processing Integration Results

RT: 11.91
Area: 329667
Amount: 27.645232
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 317210
Amount: 26.600612
Amount Units: mg/L



Reviewer: luj, 02-Jan-2019 10:39:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_013.d
Lims ID: 720-90479-F-16-D
Client ID: DG-AR5S-3.5-4
Sample Type: Client
Inject. Date: 31-Dec-2018 14:55:33 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 003 Name: 720-0055894-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:40:23 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:40:23

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.570			ND	
	23 n-Decane	3.836	3.808	0.028	1513	NC	
A	1 C9-C13	4.549	(2.570-6.529)		1898238	NC	
A	21 Stoddard Solvent	4.549	(2.570-6.529)		1898238	NC	
A	57 C10-C12	4.766	(3.808-5.725)		30679	3.13	
	24 Dodecane	5.715	5.725	-0.009	3149	NC	
A	3 C9 - C17	5.914	(2.570-9.258)		1938471	159.9	
A	47 C9 - C18	6.210	(2.570-9.851)		2004673	186.2	
A	60 C10-C16	6.214	(3.808-8.619)		66746	6.06	
A	15 Kerosene	6.480	(2.570-10.390)		2004673	185.9	
A	25 C9-C19	6.480	(2.570-10.390)		2004673	164.2	
	26 C13	6.514	6.529	-0.015	3232	NC	
$	27 n-Decanoic Acid (Surr)		7.161			ND	U
A	59 C12-C16	7.172	(5.725-8.619)		39216	4.00	
A	62 C10-C20	7.367	(3.808-10.926)		295088	30.1	
A	28 C9-C24	7.714	(2.570-12.858)		2584254	263.7	
A	29 C9-C25	7.932	(2.570-13.295)		2682180	273.7	
A	54 C10-C23	8.106	(3.808-12.404)		556817	56.8	
A	4 C10-C24	8.333	(3.808-12.858)		720952	73.6	
A	16 C10-C25	8.551	(3.808-13.295)		818878	83.6	
	45 Hexadecane	8.606	8.619	-0.013	7314	NC	
A	14 C10-C26	8.762	(3.808-13.716)		931120	95.0	
A	67 C12-C22	8.828	(5.725-11.931)		499144	50.9	
A	12 Unknown Hydrocarbons	9.162	(3.808-14.515)		1191486	NC	M
A	32 C10-C28	9.162	(3.808-14.515)		1191486	121.6	M
A	5 Diesel	9.162	(3.808-14.515)		1191486	121.6	M
A	30 C13-C22	9.230	(6.529-11.931)		494970	50.5	
	44 Heptadecane	9.260	9.258	0.002	20629	NC	
A	31 C12-C24	9.291	(5.725-12.858)		693422	70.8	
	49 n-Octadecane	9.836	9.851	-0.015	27509	NC	
A	9 Crude Oil Range Organics (	9.909	(2.570-17.247)		2936449	NC	
A	52 Mineral oil	9.909	(2.570-17.247)		2936449	262.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.909	(2.570-17.247)		5472822	NC	M
33 C19	10.393	10.390	0.003	71842	NC	
A 64 C13-C28	10.522	(6.529-14.515)		1159782	118.3	M
A 17 C10-C36	10.528	(3.808-17.247)		3609520	368.3	M
A 13 C9-C40	10.691	(2.570-18.812)		3537684	407.4	
A 68 Crude Oil Range Organics (	10.691	(2.570-18.812)		3537684	NC	
A 58 C16-C24	10.739	(8.619-12.858)		661520	67.5	
61 icosane	10.924	10.926	-0.002	34268	NC	
A 6 C10-C40	11.310	(3.808-18.812)		3520930	405.7	
$ 34 p-Terphenyl	11.913	11.919	-0.006	295747	24.8	M
35 n-Docosane		11.931			ND	
A 18 C12-C40	12.268	(5.725-18.812)		3486799	401.9	
36 Tricosane	12.406	12.404	0.002	37302	NC	
A 66 C13-C40	12.671	(6.529-18.812)		3479173	401.1	
37 n-Tetracosane	12.853	12.858	-0.005	126833	NC	
A 2 C16-C36 ORO	12.933	(8.619-17.247)		2825036	372.2	
38 C25	13.293	13.295	-0.002	43616	NC	
A 19 C16-C40	13.716	(8.619-18.812)		3426271	394.8	
46 n-Hexacosane	13.705	13.716	-0.011	112242	NC	
A 20 C19-C36	13.818	(10.390-17.247)		2439844	282.8	
A 55 C23-C32	14.183	(12.404-15.963)		1518376	319.3	
39 n-Octacosane		14.515			ND	
65 C29	14.460	14.895	-0.435	108231	NC	M
A 7 Motor Oil	15.052	(12.858-17.247)		1960324	321.8	
A 40 C24-C36	15.052	(12.858-17.247)		1960324	321.8	
A 50 C25-C36	15.271	(13.295-17.247)		1841961	318.4	
A 10 C22-C40	15.372	(11.931-18.812)		2474323	296.0	
A 41 C23-C40	15.608	(12.404-18.812)		2612698	318.6	
A 8 C24-C40	15.835	(12.858-18.812)		2508919	315.4	
56 Dotriacontane	15.964	15.963	0.001	93772	NC	
A 51 C28-C40	16.664	(14.515-18.812)		1967724	295.8	
A 63 C29-C40	16.853	(14.895-18.812)		1786825	293.7	
42 n-Hexatriacontane		17.247			ND	
43 C40		18.812			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

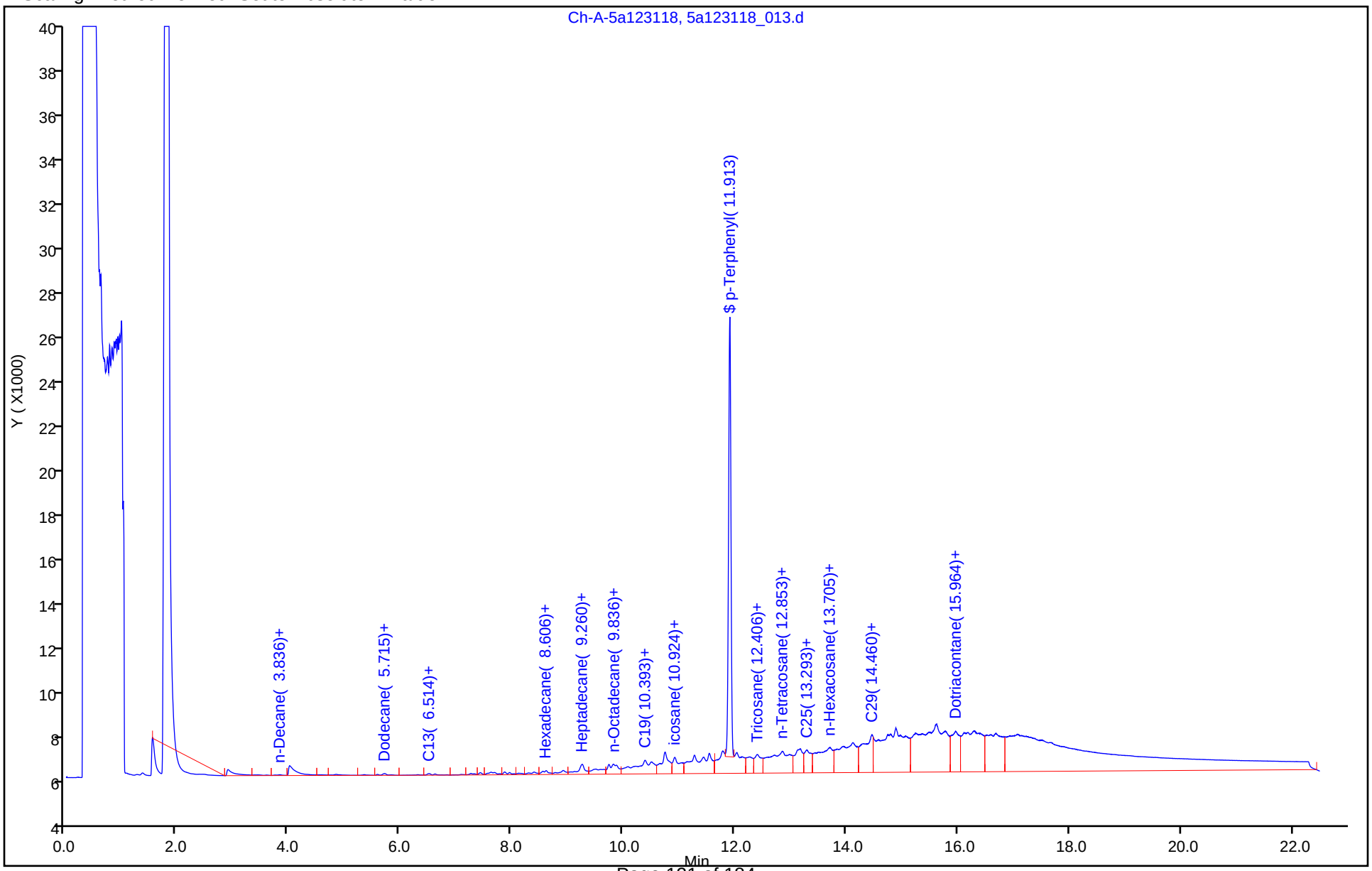
Report Date: 02-Jan-2019 10:40:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_013.d

Injection Date:	31-Dec-2018 14:55:33	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-16-D	Lab Sample ID:	720-90479-16	Worklist Smp#:	13
Client ID:	DG-AR5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_013.d
Lims ID: 720-90479-F-16-D
Client ID: DG-AR5S-3.5-4
Sample Type: Client
Inject. Date: 31-Dec-2018 14:55:33 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 003 Name: 720-0055894-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\DRO5A.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:40:23 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:40:23

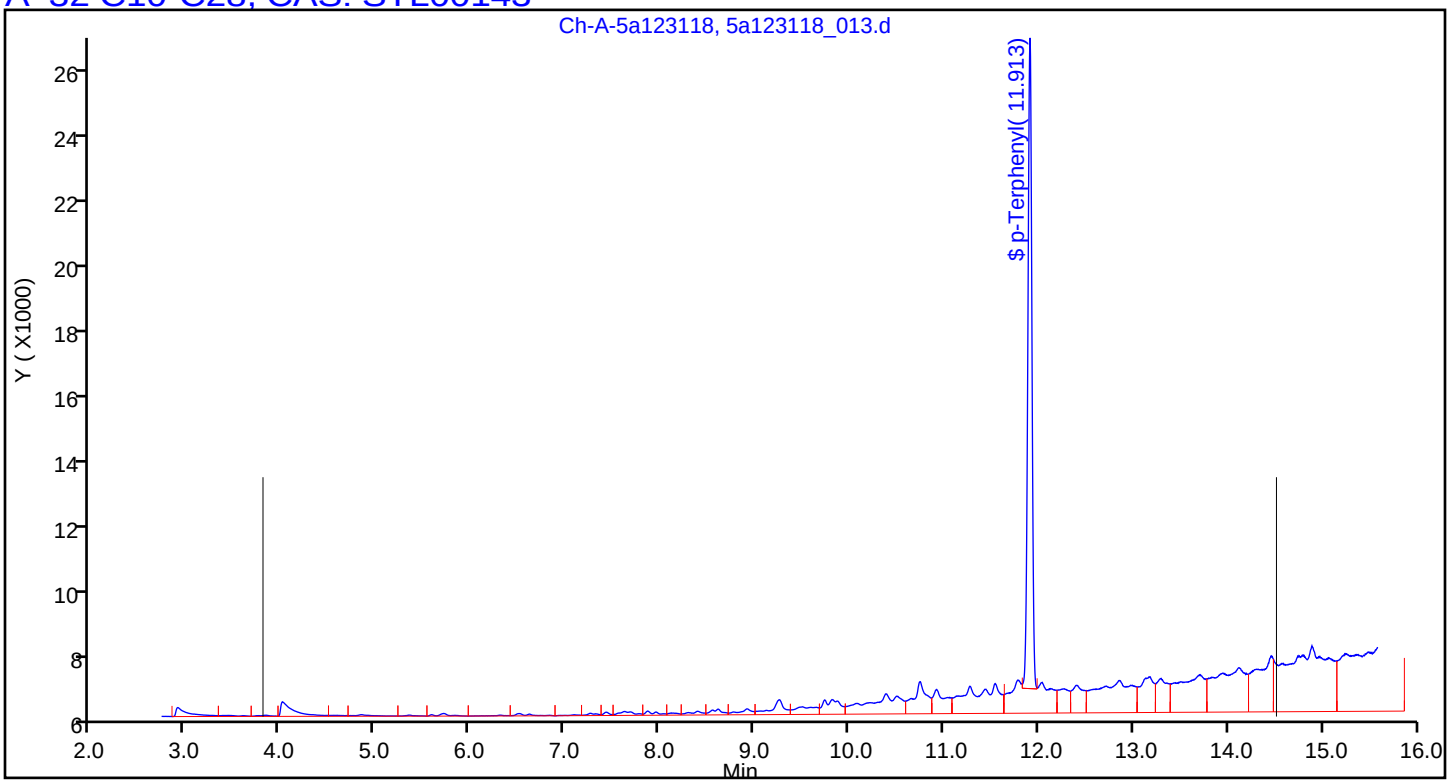
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.8	99.20

Report Date: 02-Jan-2019 10:40:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_013.d				
Injection Date:	31-Dec-2018 14:55:33	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-16-D	Lab Sample ID:	720-90479-16		
Client ID:	DG-AR5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

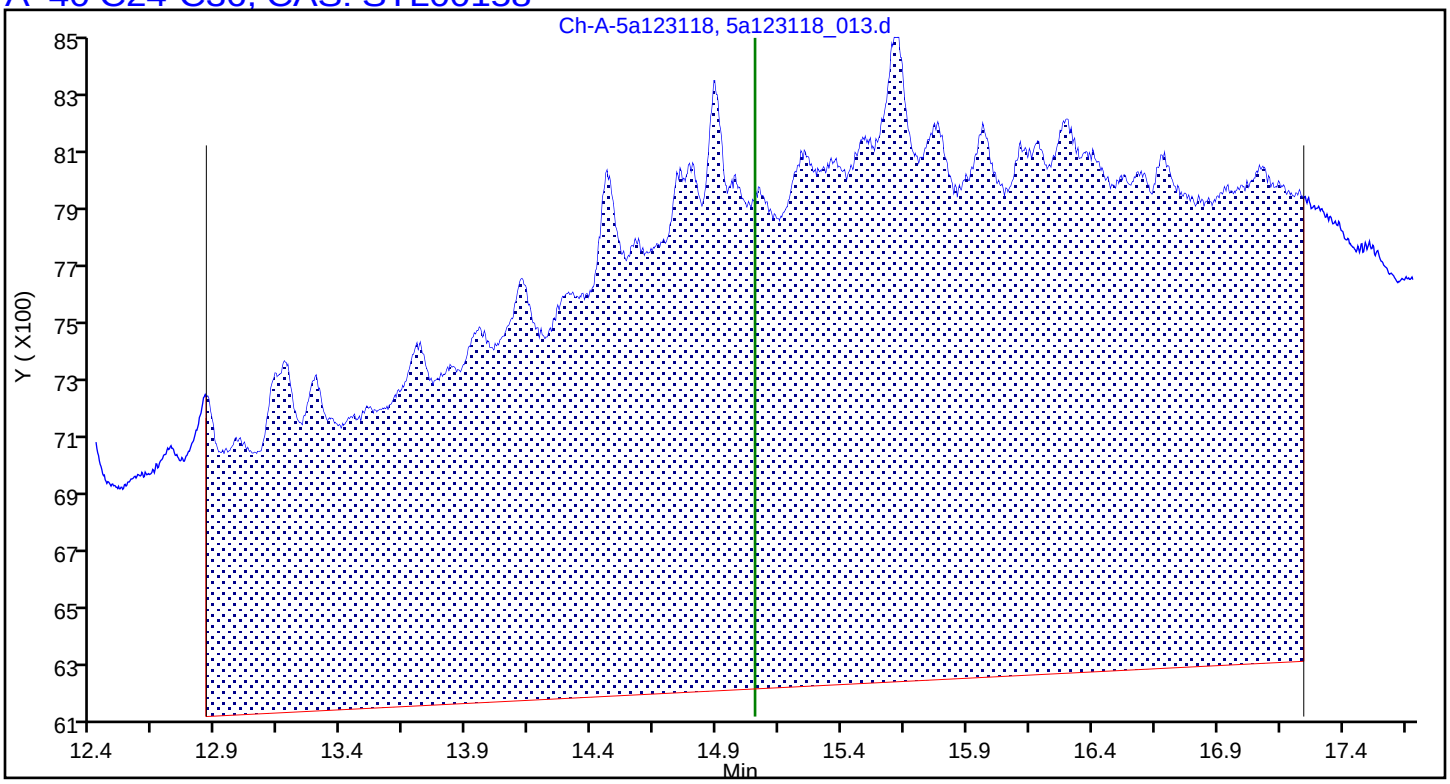


Report Date: 02-Jan-2019 10:40:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_013.d				
Injection Date:	31-Dec-2018 14:55:33	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-16-D	Lab Sample ID:	720-90479-16		
Client ID:	DG-AR5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

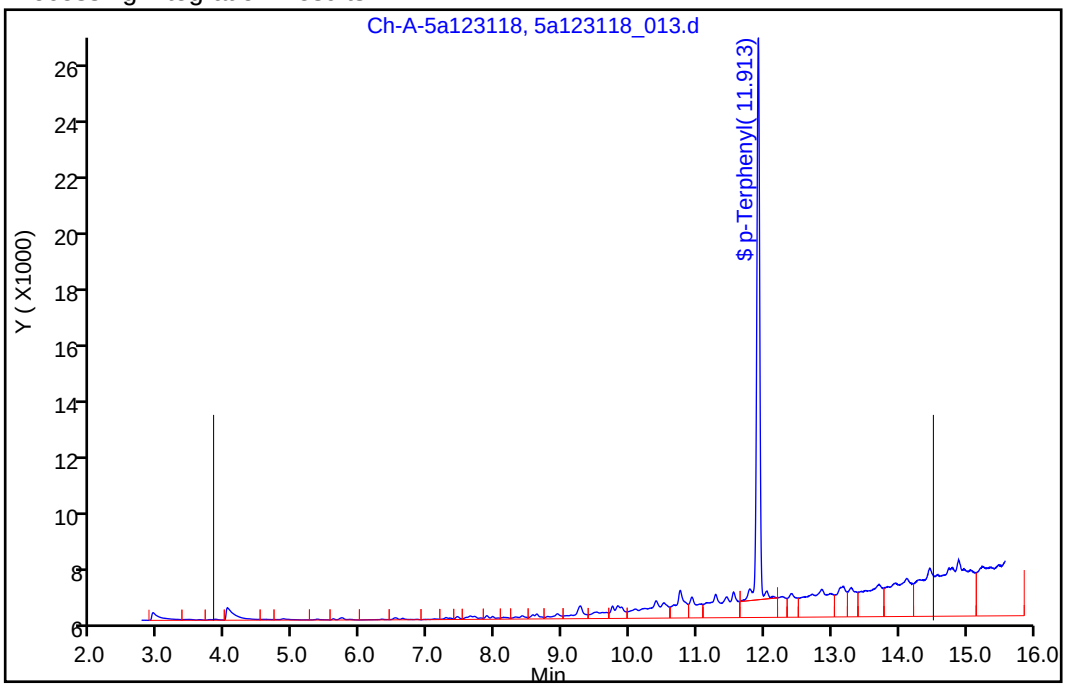
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Injection Date:	31-Dec-2018 14:55:33	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-16-D	Lab Sample ID:	720-90479-16		
Client ID:	DG-AR5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

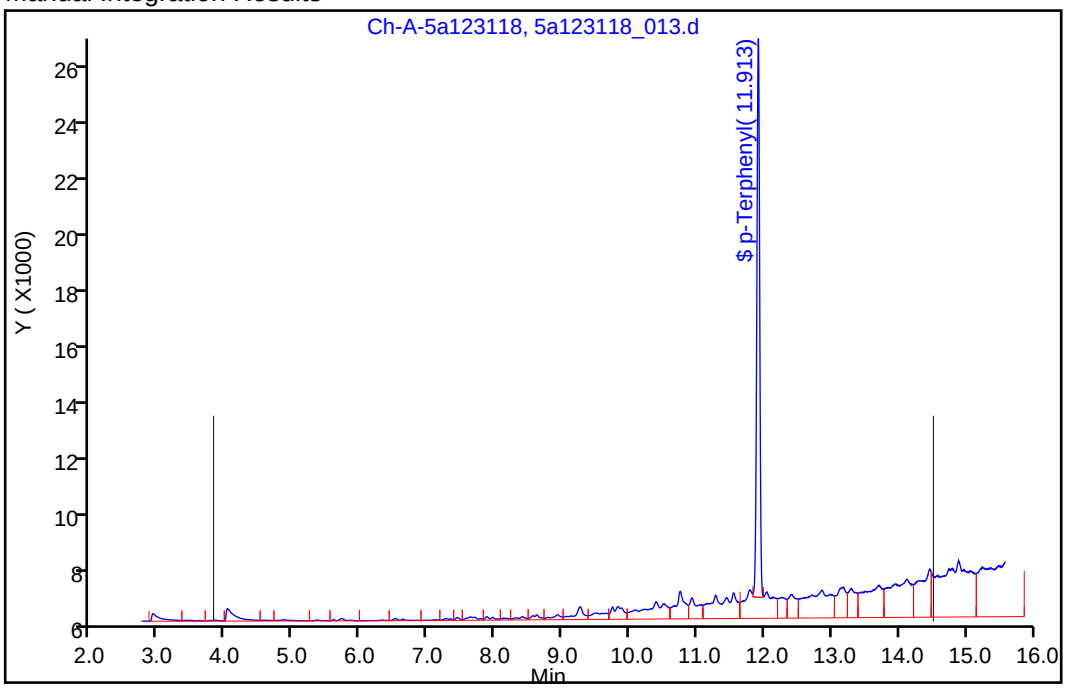
Processing Integration Results

RT: 9.16
Response: 1060554
Amount: 108.2086



Manual Integration Results

RT: 9.16
Response: 1191486
Amount: 121.5676



Reviewer: luj, 02-Jan-2019 10:39:59

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

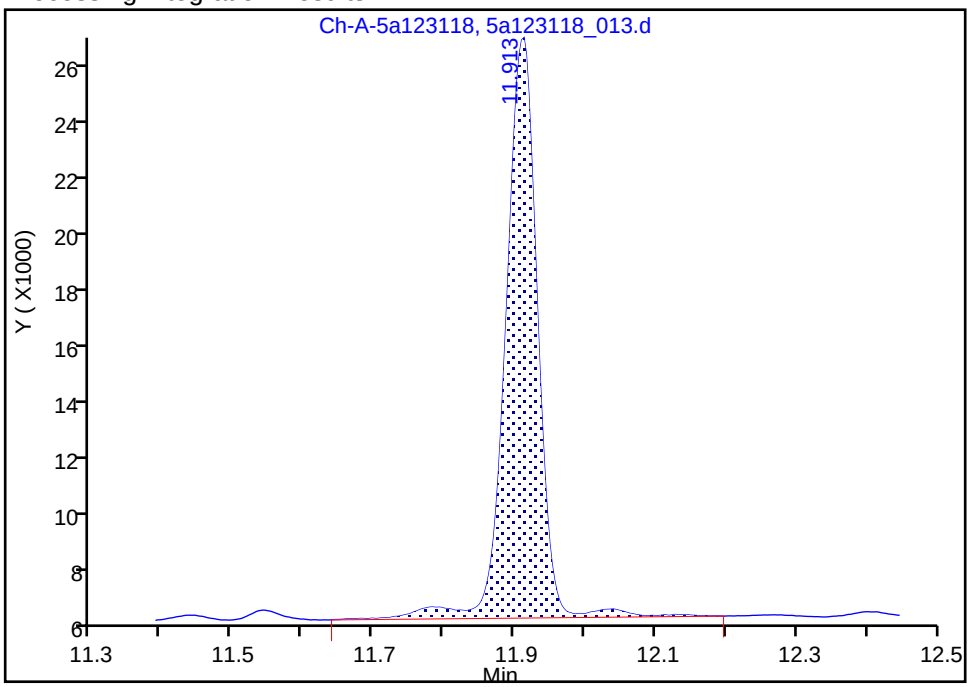
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55894.b\5a123118_013.d				
Injection Date:	31-Dec-2018 14:55:33	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-16-D	Lab Sample ID:	720-90479-16		
Client ID:	DG-AR5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

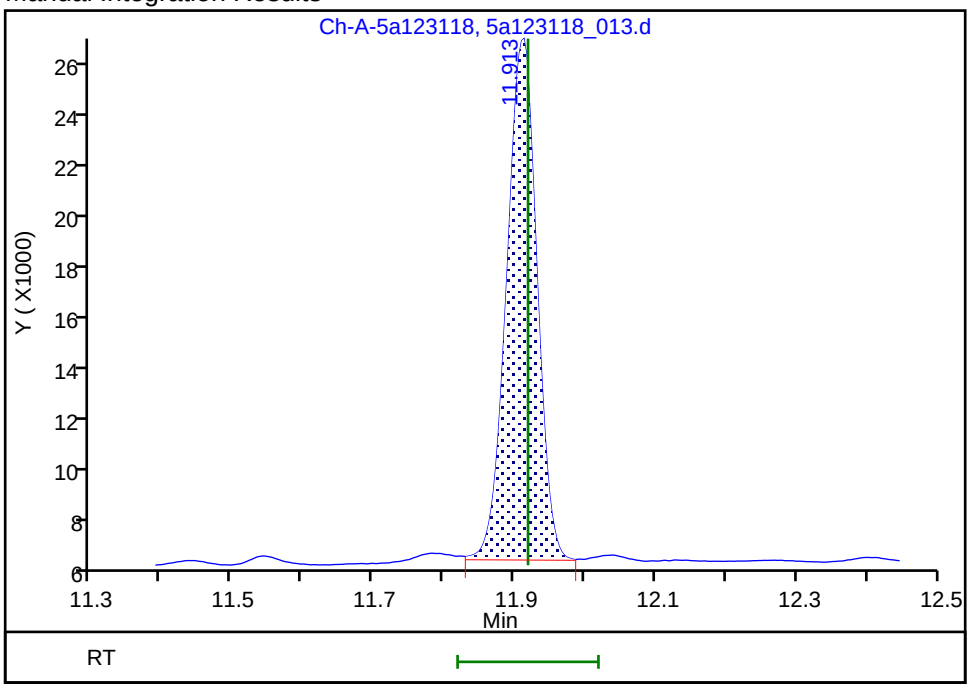
Processing Integration Results

RT: 11.91
Area: 317409
Amount: 26.617300
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 295747
Amount: 24.800767
Amount Units: mg/L



Reviewer: luj, 02-Jan-2019 10:40:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\FID2000012.D
Lims ID: 720-90479-F-17-A
Client ID: DG-AP5S-0.5-1
Sample Type: Client
Inject. Date: 31-Dec-2018 17:47:35 ALS Bottle#: 62 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055897-012
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\DRO6_B.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:43:18 Calib Date: 31-Dec-2018 09:11:55
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:43:18

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.356	1.356	0.000	325245	NC	M
	23 n-Decane	2.202	2.202	0.000	651143	NC	M
A	21 Stoddard Solvent	2.806	(1.356-4.257)		15616155	6.56	M
A	1 C9-C13	2.806	(1.356-4.257)		15616155	NC	M
A	57 C10-C12	2.923	(2.202-3.645)		8103959	4.10	M
	24 Dodecane	3.646	3.645	0.001	514564	NC	M
A	3 C9 - C17	3.832	(1.356-6.307)		55523078	19.3	M
A	60 C10-C16	4.020	(2.202-5.837)		35714506	14.0	M
A	47 C9 - C18	4.054	(1.356-6.753)		77255325	34.1	M
	26 C13	4.257	4.257	0.000	680431	NC	M
A	25 C9-C19	4.267	(1.356-7.178)		134309776	46.5	M
A	15 Kerosene	4.267	(1.356-7.178)		134309776	59.1	M
$	27 n-Decanoic Acid (Surr)		4.609			ND	U
A	59 C12-C16	4.741	(3.645-5.837)		27610547	14.0	M
A	61 C10-C20	4.893	(2.202-7.584)		200217992	101.2	M
A	28 C9-C24	5.203	(1.356-9.051)		555239457	280.8	M
A	29 C9-C25	5.370	(1.356-9.383)		676796502	342.3	M
A	54 C10-C23	5.454	(2.202-8.706)		401201528	202.9	M
A	4 C10-C24	5.626	(2.202-9.051)		552158411	279.2	M
A	16 C10-C25	5.793	(2.202-9.383)		673715456	340.7	M
	45 Hexadecane	5.838	5.837	0.001	3030499	NC	M
A	14 C10-C26	5.953	(2.202-9.704)		755311136	382.0	M
A	67 C12-C22	5.996	(3.645-8.347)		352417926	178.2	M
A	32 C10-C28	6.257	(2.202-10.312)		1036582627	524.2	M
A	12 Unknown Hydrocarbons	6.257	(2.202-10.312)		1036582627	NC	M
A	5 Diesel	6.257	(2.202-10.312)		1036582627	524.2	M
A	30 C13-C22	6.302	(4.257-8.347)		347986776	176.0	M
	44 Heptadecane	6.349	6.307	0.042	8732224	NC	M
A	31 C12-C24	6.348	(3.645-9.051)		544054452	275.1	M
	49 n-Octadecane	6.757	6.753	0.004	10308897	NC	M
A	52 Mineral oil	6.874	(1.356-12.392)		2495722375	1084.4	M
A	11 Bunker Range Organics (C9-	6.874	(1.356-12.392)		2495722375	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.874	(1.356-12.392)		2495722375	NC	M
33 C19	7.176	7.178	-0.002	22347508	NC	M
A 64 C13-C28	7.284	(4.257-10.312)		1024047518	517.9	M
A 17 C10-C36	7.297	(2.202-12.392)		2492641329	1260.5	M
A 13 C9-C40	7.363	(1.356-13.369)		4331170253	2443.4	M
A 68 Crude Oil Range Organics (	7.363	(1.356-13.369)		4331170253	NC	M
A 58 C16-C24	7.444	(5.837-9.051)		516443905	261.2	M
62 icosane	7.583	7.584	-0.001	14193152	NC	M
A 6 C10-C40	7.786	(2.202-13.369)		4328089207	2444.4	M
$ 34 p-Terphenyl	8.040	8.042	-0.002	46946637	19.9	M
35 n-Docosane	8.350	8.347	0.003	19368467	NC	M
A 18 C12-C40	8.507	(3.645-13.369)		4319985248	2448.8	M
36 Tricosane	8.708	8.706	0.002	76825889	NC	M
A 66 C13-C40	8.813	(4.257-13.369)		4315554098	2448.5	M
37 n-Tetracosane	9.062	9.051	0.011	43238654	NC	M
A 2 C16-C36 ORO	9.115	(5.837-12.392)		2456926823	1814.5	M
38 C25	9.395	9.383	0.012	33733118	NC	M
A 19 C16-C40	9.603	(5.837-13.369)		4292374701	2440.3	M
46 n-Hexacosane	9.766	9.704	0.062	78340410	NC	M
A 20 C19-C36	9.785	(7.178-12.392)		1847237300	1147.4	
A 55 C23-C32	10.060	(8.706-11.414)		1453216224	1638.2	M
39 n-Octacosane	10.385	10.312	0.073	131910264	NC	M
65 C29	10.568	10.600	-0.032	113537533	NC	M
A 7 Motor Oil	10.722	(9.051-12.392)		1664333123	1438.7	
A 40 C24-C36	10.722	(9.051-12.392)		1940676984	1677.6	M
A 10 C22-C40	10.858	(8.347-13.369)		2270501973	1402.5	
A 50 C25-C36	10.888	(9.383-12.392)		1513182125	1397.8	
A 41 C23-C40	11.037	(8.706-13.369)		2214276985	1394.3	
A 8 C24-C40	11.210	(9.051-13.369)		2193226751	1411.1	
56 Dotriacontane	11.411	11.414	-0.003	52835104	NC	M
A 51 C28-C40	11.840	(10.312-13.369)		1787732308	1437.2	
A 63 C29-C40	11.985	(10.600-13.369)		1635352336	1432.1	
42 n-Hexatriacontane		12.392			ND	
43 C40		13.369			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

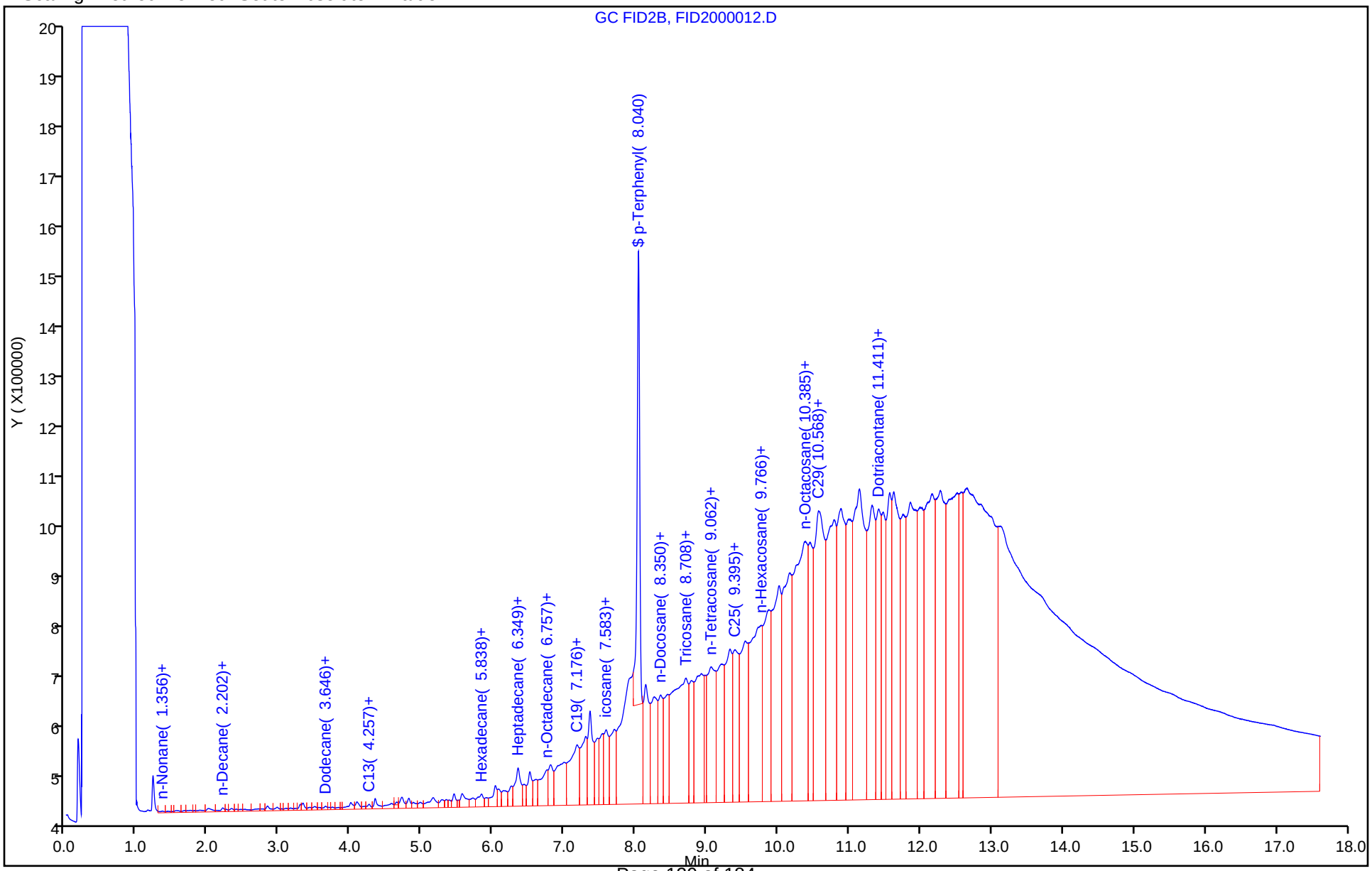
Report Date: 02-Jan-2019 10:43:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\FID2000012.D

Injection Date:	31-Dec-2018 17:47:35	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90479-F-17-A	Lab Sample ID:	720-90479-17	Worklist Smp#:	12
Client ID:	DG-AP5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	62
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\FID2000012.D
Lims ID: 720-90479-F-17-A
Client ID: DG-AP5S-0.5-1
Sample Type: Client
Inject. Date: 31-Dec-2018 17:47:35 ALS Bottle#: 62 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055897-012
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\DRO6_B.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:43:18 Calib Date: 31-Dec-2018 09:11:55
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:43:18

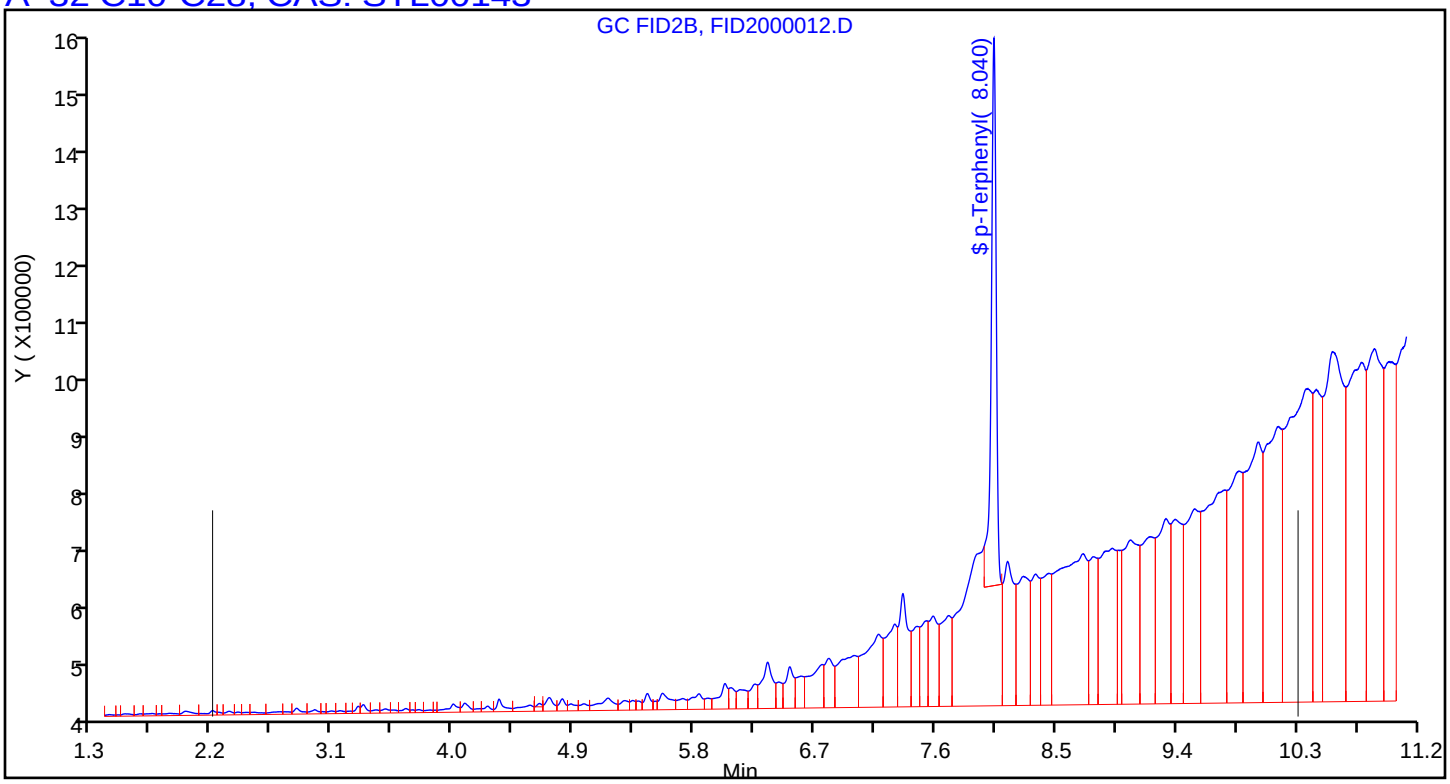
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	19.9	79.74

Report Date: 02-Jan-2019 10:43:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\FID2000012.D				
Injection Date:	31-Dec-2018 17:47:35	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-17-A	Lab Sample ID:	720-90479-17		
Client ID:	DG-AP5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

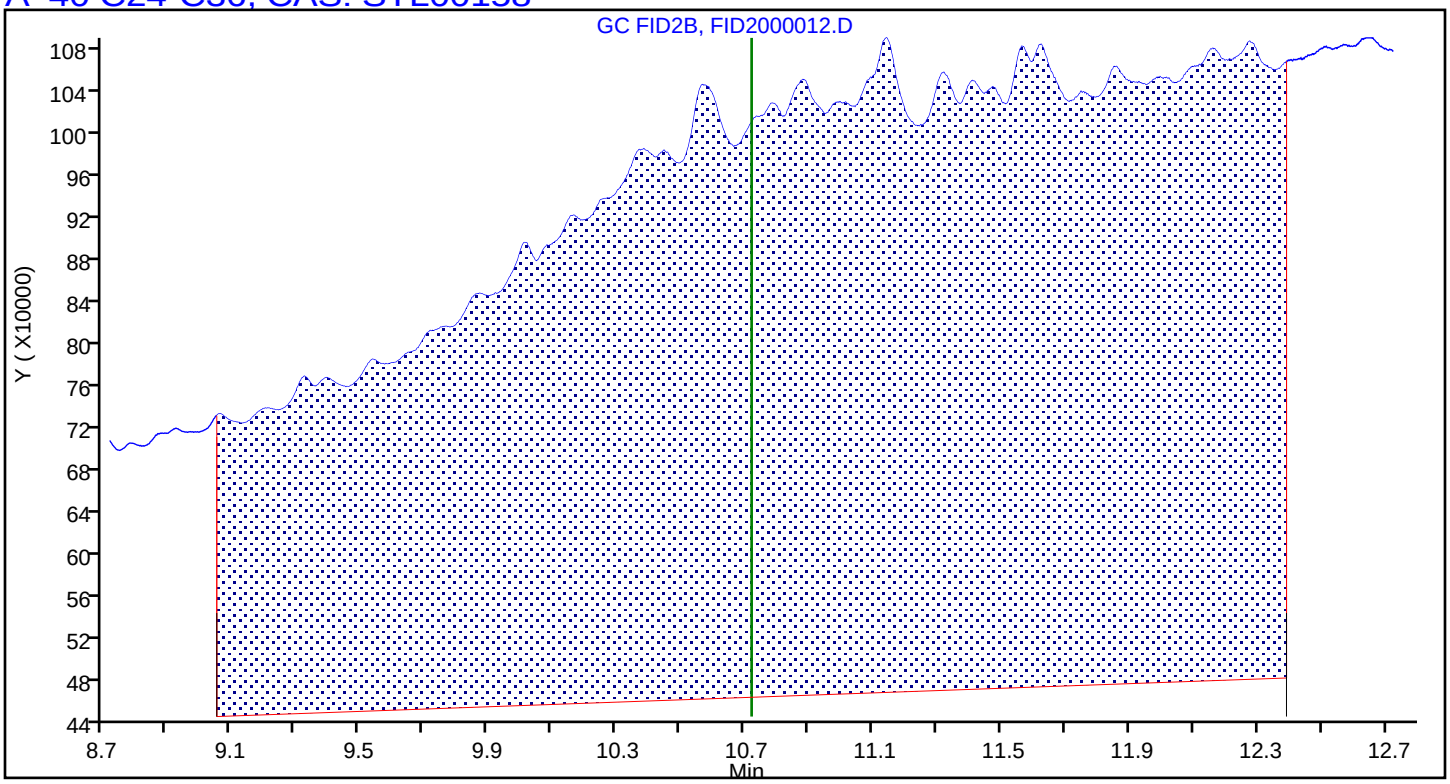


Report Date: 02-Jan-2019 10:43:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\FID2000012.D				
Injection Date:	31-Dec-2018 17:47:35	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-17-A	Lab Sample ID:	720-90479-17		
Client ID:	DG-AP5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

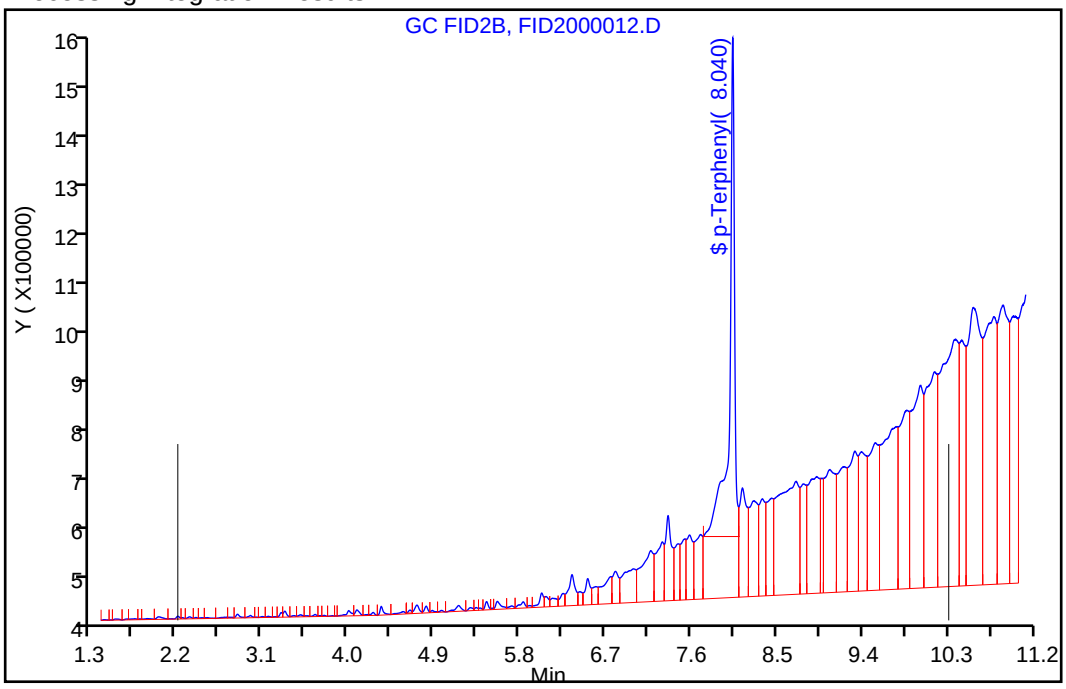
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Injection Date:	31-Dec-2018 17:47:35	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-17-A	Lab Sample ID:	720-90479-17		
Client ID:	DG-AP5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.257, CAS: STL00143

Signal: 1

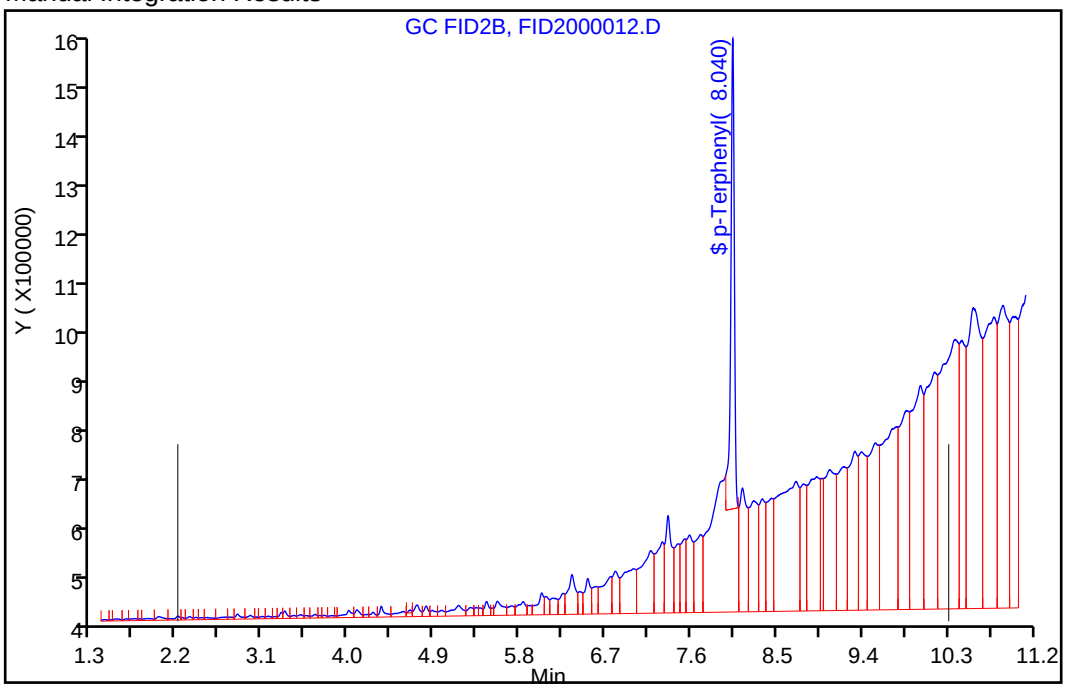
Processing Integration Results

RT: 6.26
Response: 836163853
Amount: 422.8432



Manual Integration Results

RT: 6.26
Response: 1036582627
Amount: 524.1939



Reviewer: luj, 02-Jan-2019 10:42:40

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

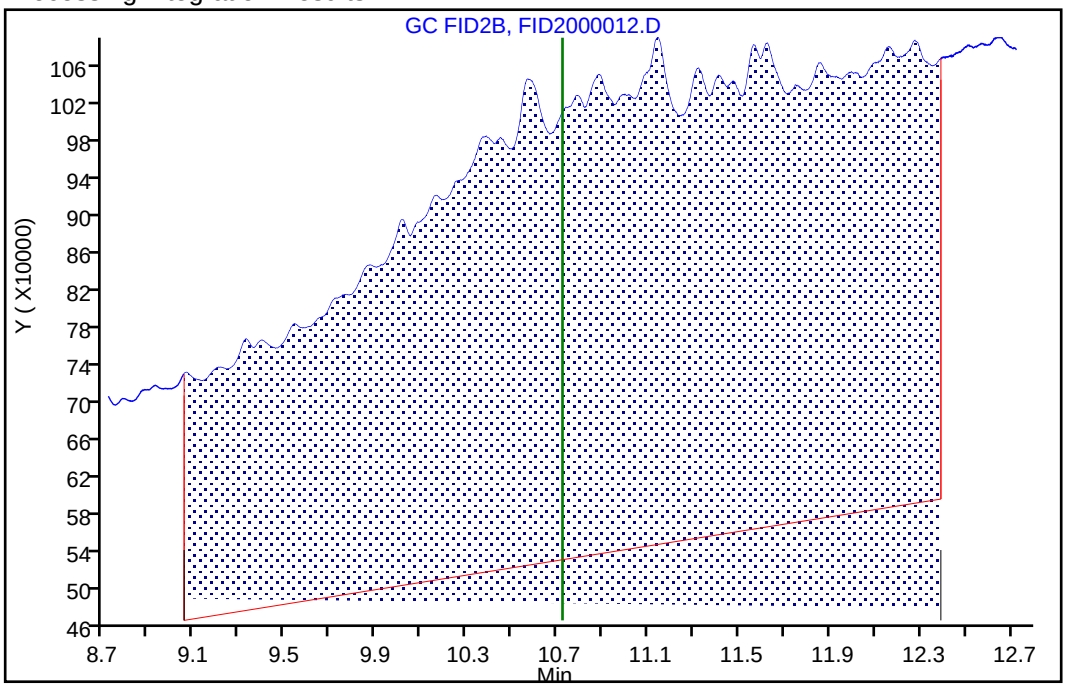
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181231-55897.b\FID2000012.D				
Injection Date:	31-Dec-2018 17:47:35	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-17-A	Lab Sample ID:	720-90479-17		
Client ID:	DG-AP5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.722, CAS: STL00158

Signal: 1

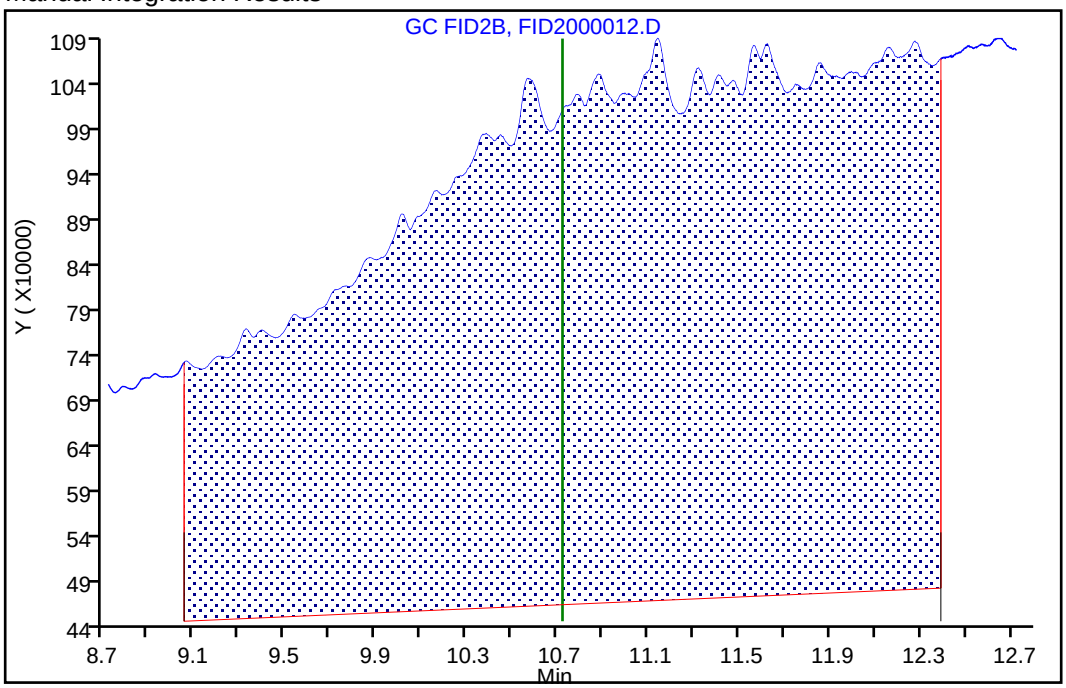
Processing Integration Results

RT: 10.72
Response: 1664333123
Amount: 1438.7315



Manual Integration Results

RT: 10.72
Response: 1940676984
Amount: 1677.6167



Reviewer: luj, 02-Jan-2019 10:43:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

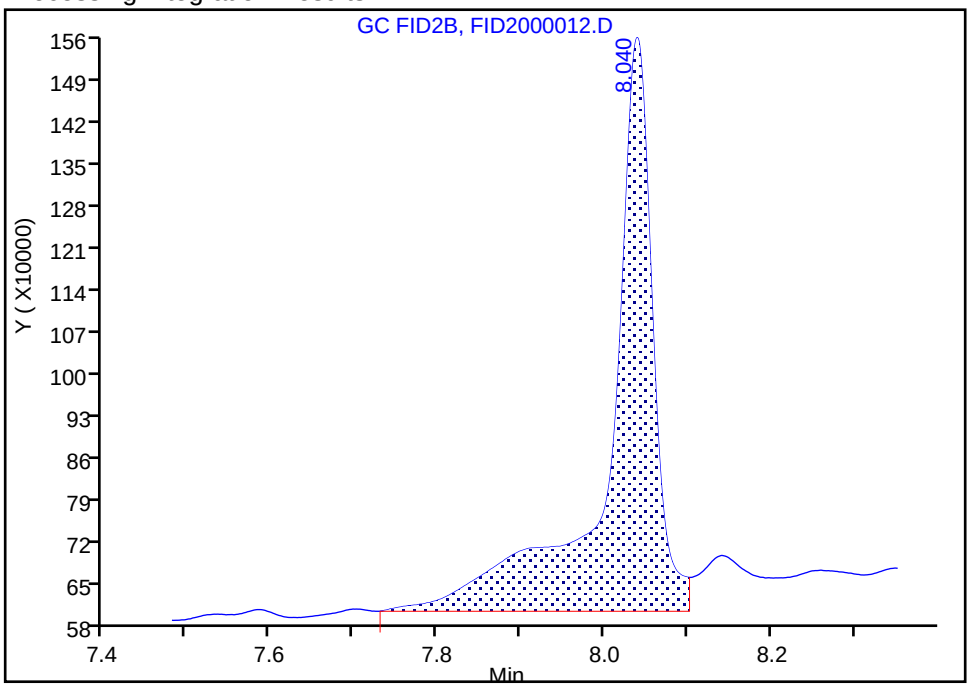
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Injection Date:	31-Dec-2018 17:47:35	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-17-A	Lab Sample ID:	720-90479-17		
Client ID:	DG-AP5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

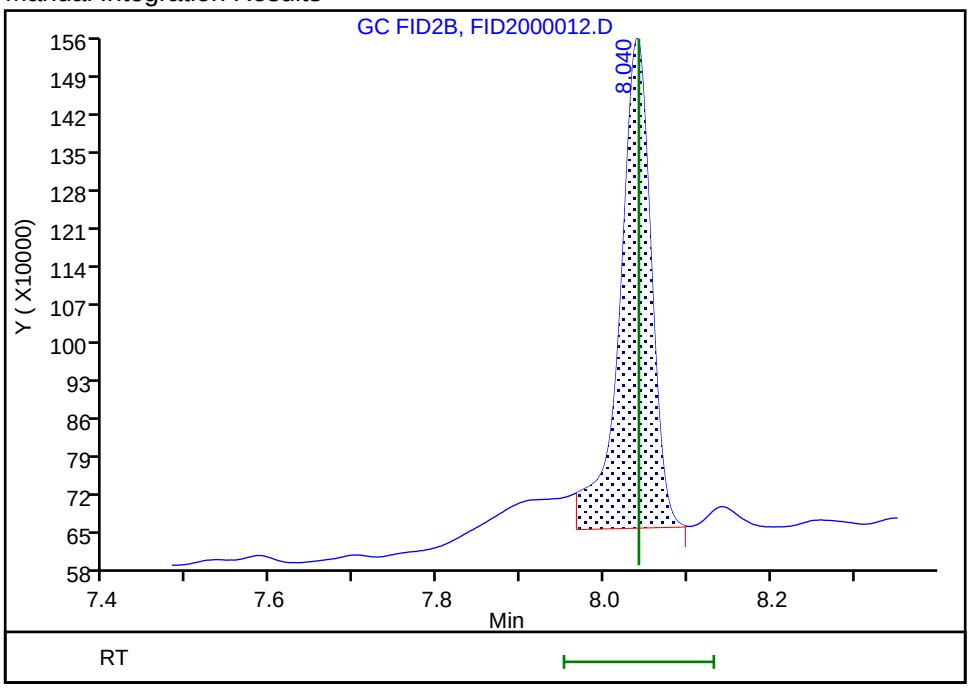
Processing Integration Results

RT: 8.04
Area: 71832693
Amount: 30.501388
Amount Units: mg/L



Manual Integration Results

RT: 8.04
Area: 46946637
Amount: 19.934343
Amount Units: mg/L



Reviewer: luj, 02-Jan-2019 10:42:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_007.d
Lims ID: 720-90479-F-18-A
Client ID: DG-AP5S-3.5-4
Sample Type: Client
Inject. Date: 31-Dec-2018 12:02:05 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0055895-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\DRO5B.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:52:24 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:52:24

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.688			ND	
23 n-Decane		3.901			ND	
A 1 C9-C13	4.641	(2.688-6.593)		77054	6.08	M
A 21 Stoddard Solvent	4.641	(2.688-6.593)		77054	6.78	M
A 57 C10-C12	4.848	(3.901-5.794)		49209	5.01	M
24 Dodecane	5.823	5.794	0.029	999	NC	M
A 3 C9 - C17	5.994	(2.688-9.301)		99233	7.03	M
A 47 C9 - C18	6.282	(2.688-9.875)		110078	9.81	M
A 60 C10-C16	6.285	(3.901-8.670)		68559	5.49	M
A 15 Kerosene	6.559	(2.688-10.431)		124440	11.1	M
A 25 C9-C19	6.559	(2.688-10.431)		124440	8.79	M
26 C13		6.593			ND	
$ 27 n-Decanoic Acid (Surr)		7.209			ND	U
A 59 C12-C16	7.232	(5.794-8.670)		21716	2.21	M
A 62 C10-C20	7.433	(3.901-10.965)		130410	13.3	M
A 28 C9-C24	7.787	(2.688-12.886)		264907	27.0	M
A 29 C9-C25	8.004	(2.688-13.320)		301594	30.7	M
A 54 C10-C23	8.168	(3.901-12.434)		212780	21.7	M
A 4 C10-C24	8.393	(3.901-12.886)		241901	24.6	M
A 16 C10-C25	8.611	(3.901-13.320)		278588	28.4	M
45 Hexadecane	8.653	8.670	-0.017	1791	NC	M
A 14 C10-C26	8.820	(3.901-13.739)		311873	31.8	M
A 67 C12-C22	8.880	(5.794-11.965)		138865	14.1	M
A 5 Diesel	9.217	(3.901-14.534)		391683	39.9	M
A 32 C10-C28	9.217	(3.901-14.534)		391683	39.9	M
A 12 Unknown Hydrocarbons	9.217	(3.901-14.534)		391683	NC	M
A 30 C13-C22	9.279	(6.593-11.965)		132653	13.5	M
44 Heptadecane	9.300	9.301	-0.001	2744	NC	M
A 31 C12-C24	9.340	(5.794-12.886)		195058	19.9	M
49 n-Octadecane	9.857	9.875	-0.018	2248	NC	M
A 52 Mineral oil	9.969	(2.688-17.249)		1103258	101.6	
A 9 Crude Oil Range Organics (	9.969	(2.688-17.249)		1103258	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.969	(2.688-17.249)		1374398	NC	M
33 C19	10.427	10.431	-0.004	3424	NC	M
A 64 C13-C28	10.563	(6.593-14.534)		338628	34.5	M
A 17 C10-C36	10.575	(3.901-17.249)		1351392	137.6	M
A 13 C9-C40	10.747	(2.688-18.805)		1402860	138.8	
A 68 Crude Oil Range Organics (	10.747	(2.688-18.805)		1402860	NC	
A 58 C16-C24	10.778	(8.670-12.886)		175133	17.8	M
61 icosane	10.960	10.965	-0.005	5286	NC	M
A 6 C10-C40	11.353	(3.901-18.805)		1379367	136.6	
$ 34 p-Terphenyl	11.930	11.935	-0.005	273710	21.7	
35 n-Docosane	12.057	11.965	0.092	6171	NC	M
A 18 C12-C40	12.300	(5.794-18.805)		1321391	131.3	
36 Tricosane	12.427	12.434	-0.007	10058	NC	M
A 66 C13-C40	12.699	(6.593-18.805)		1173530	118.3	
37 n-Tetracosane	12.880	12.886	-0.006	12735	NC	M
A 2 C16-C36 ORO	12.959	(8.670-17.249)		711855	96.5	
38 C25	13.317	13.320	-0.003	14156	NC	M
A 19 C16-C40	13.737	(8.670-18.805)		1266382	126.5	
46 n-Hexacosane	13.737	13.739	-0.002	13017	NC	M
A 20 C19-C36	13.840	(10.431-17.249)		464022	59.5	
A 55 C23-C32	14.204	(12.434-15.973)		350754	81.4	
39 n-Octacosane	14.523	14.534	-0.011	9749	NC	M
65 C29	14.910	14.911	-0.001	47760	NC	M
A 40 C24-C36	15.068	(12.886-17.249)		519450	82.9	
A 7 Motor Oil	15.068	(12.886-17.249)		519450	82.9	
A 50 C25-C36	15.285	(13.320-17.249)		490215	82.7	
A 10 C22-C40	15.385	(11.965-18.805)		540305	61.0	
A 41 C23-C40	15.620	(12.434-18.805)		778942	90.0	
A 8 C24-C40	15.846	(12.886-18.805)		755073	90.2	
56 Dotriacontane	15.913	15.973	-0.060	16099	NC	M
A 51 C28-C40	16.670	(14.534-18.805)		621254	93.4	
A 63 C29-C40	16.858	(14.911-18.805)		575630	94.4	
42 n-Hexatriacontane	17.203	17.249	-0.046	665372	NC	M
43 C40		18.805			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

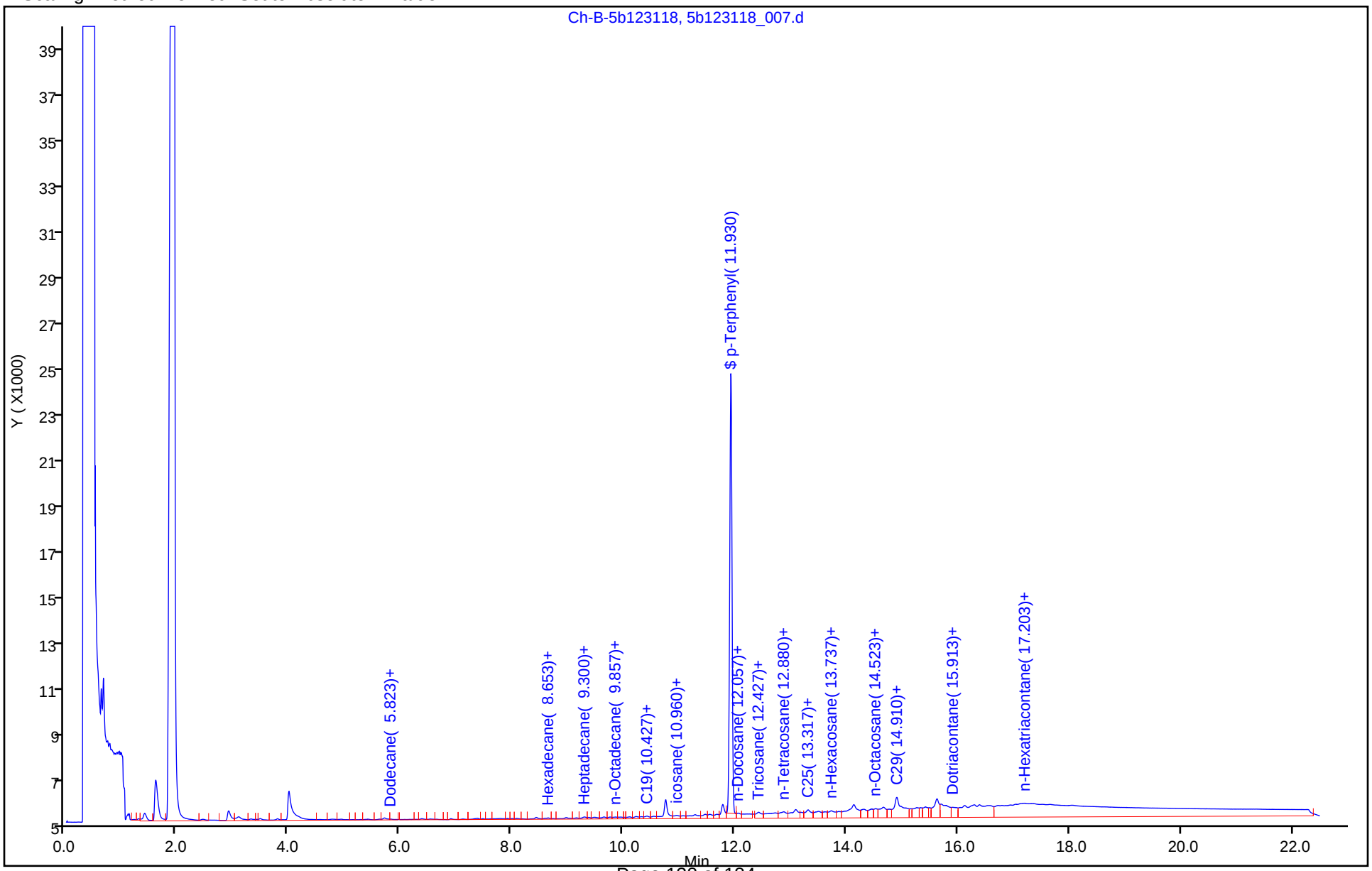
Report Date: 02-Jan-2019 10:52:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_007.d

Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90479-F-18-A	Lab Sample ID:	720-90479-18	Worklist Smp#:	7
Client ID:	DG-AP5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_007.d
Lims ID: 720-90479-F-18-A
Client ID: DG-AP5S-3.5-4
Sample Type: Client
Inject. Date: 31-Dec-2018 12:02:05 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0055895-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\DRO5B.m
Limit Group: DRO
Last Update: 02-Jan-2019 10:52:24 Calib Date: 31-Dec-2018 09:13:06
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 02-Jan-2019 10:52:24

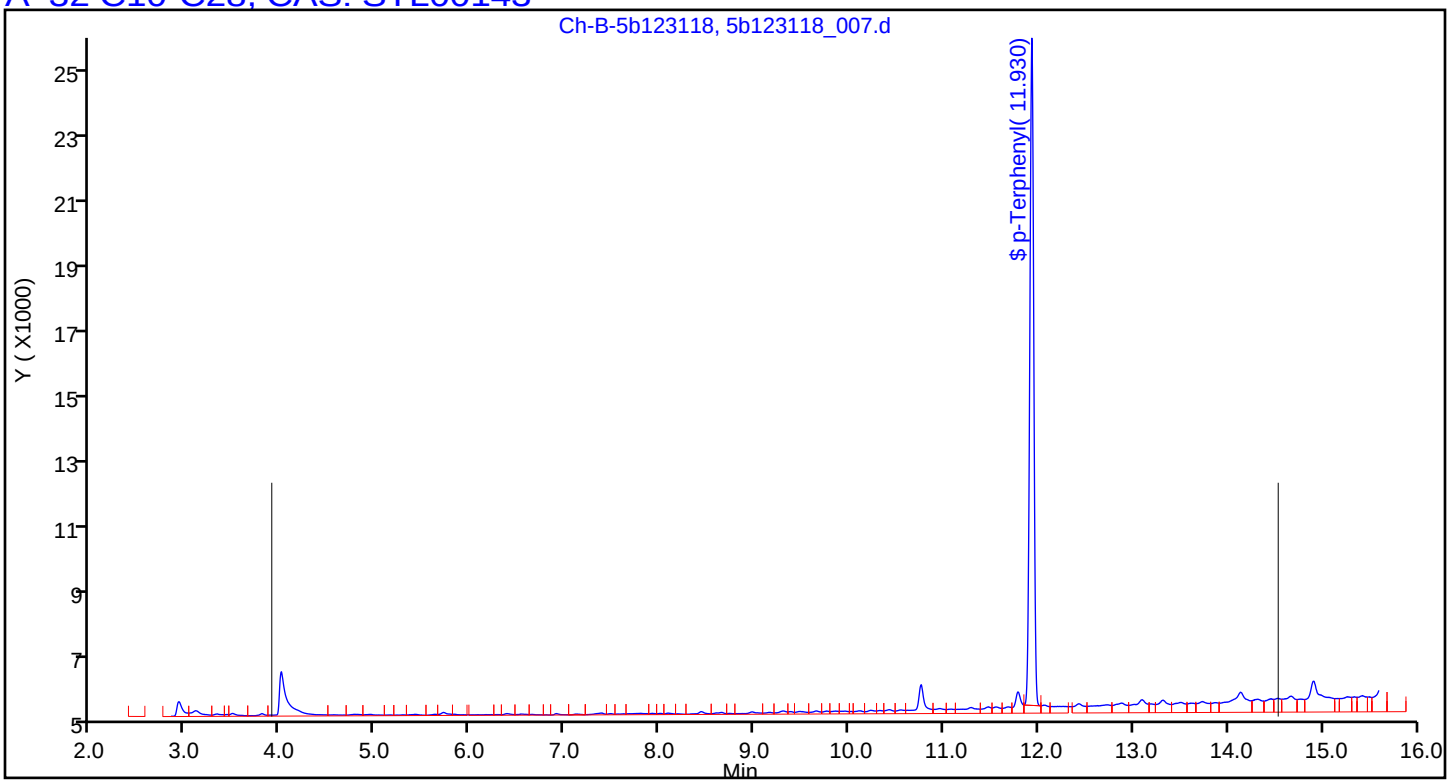
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	21.7	86.94

Report Date: 02-Jan-2019 10:52:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_007.d				
Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-18-A	Lab Sample ID:	720-90479-18		
Client ID:	DG-AP5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

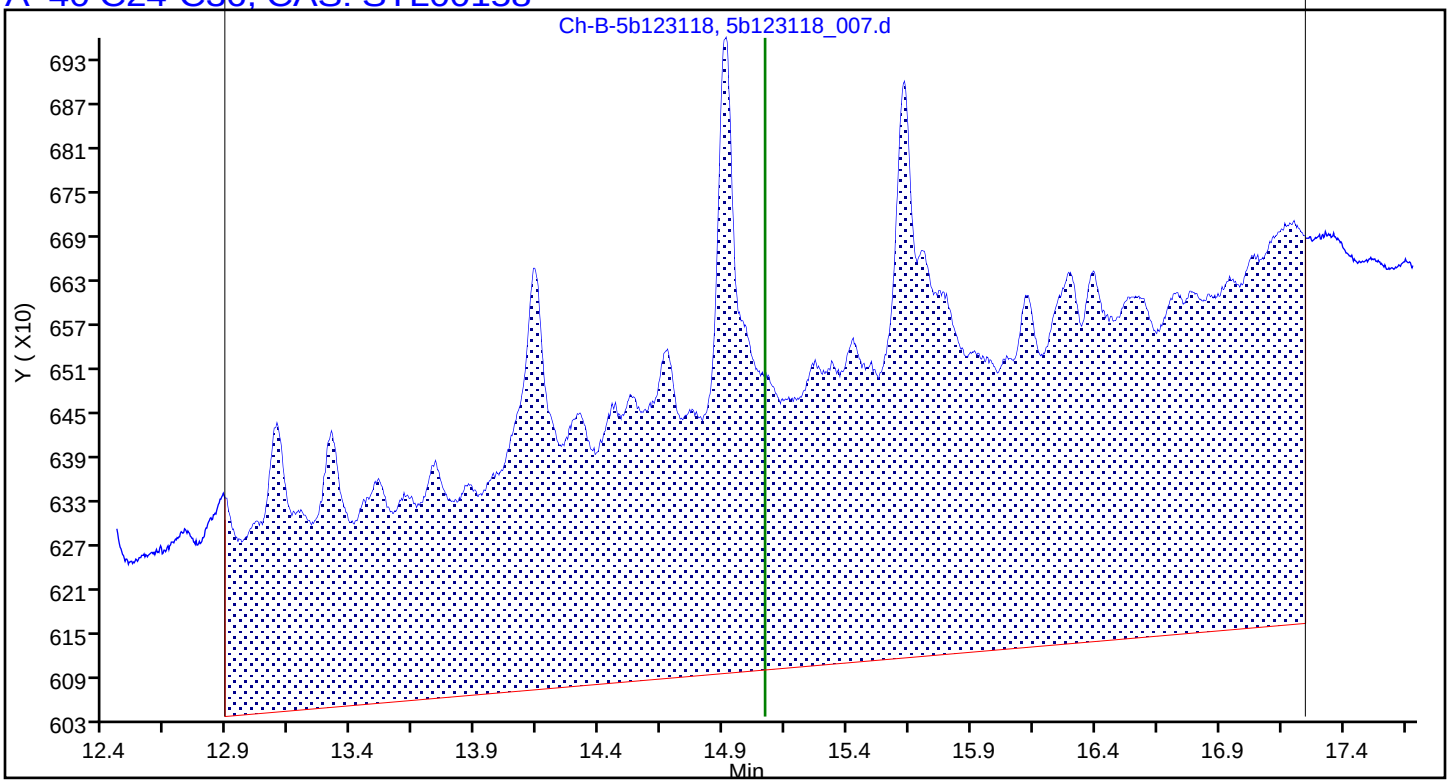


Report Date: 02-Jan-2019 10:52:27 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20181231-55895.b\5b123118_007.d				
Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-18-A	Lab Sample ID:	720-90479-18		
Client ID:	DG-AP5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

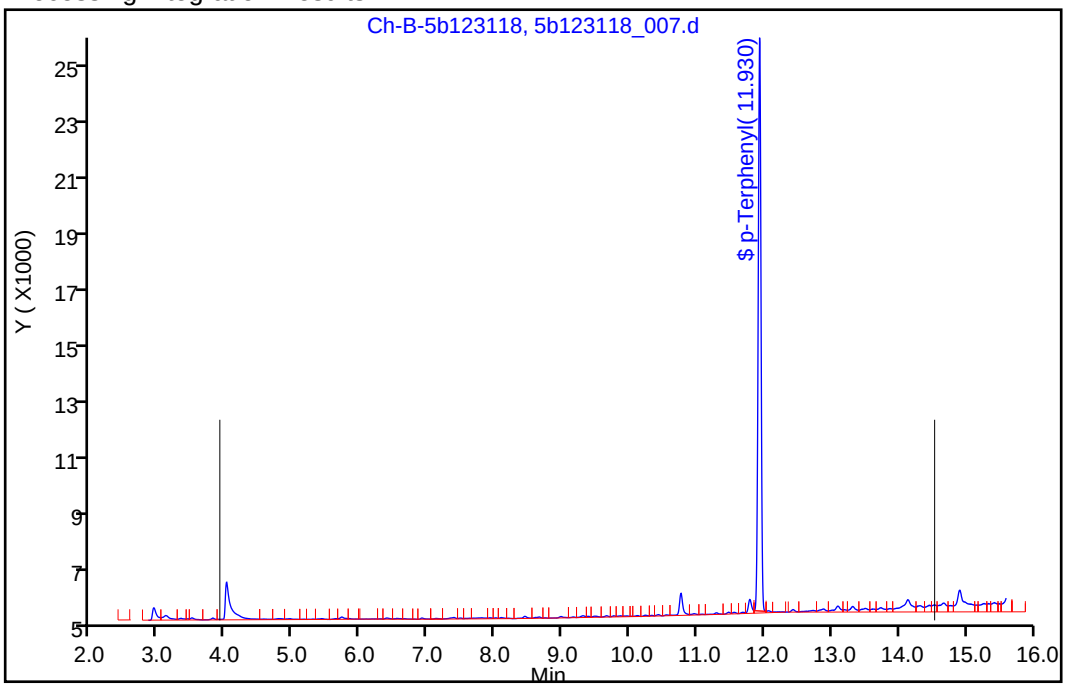
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Injection Date:	31-Dec-2018 12:02:05	Instrument ID:	CHDRO5		
Lims ID:	720-90479-F-18-A	Lab Sample ID:	720-90479-18		
Client ID:	DG-AP5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.217, CAS: STL00143

Signal: 1

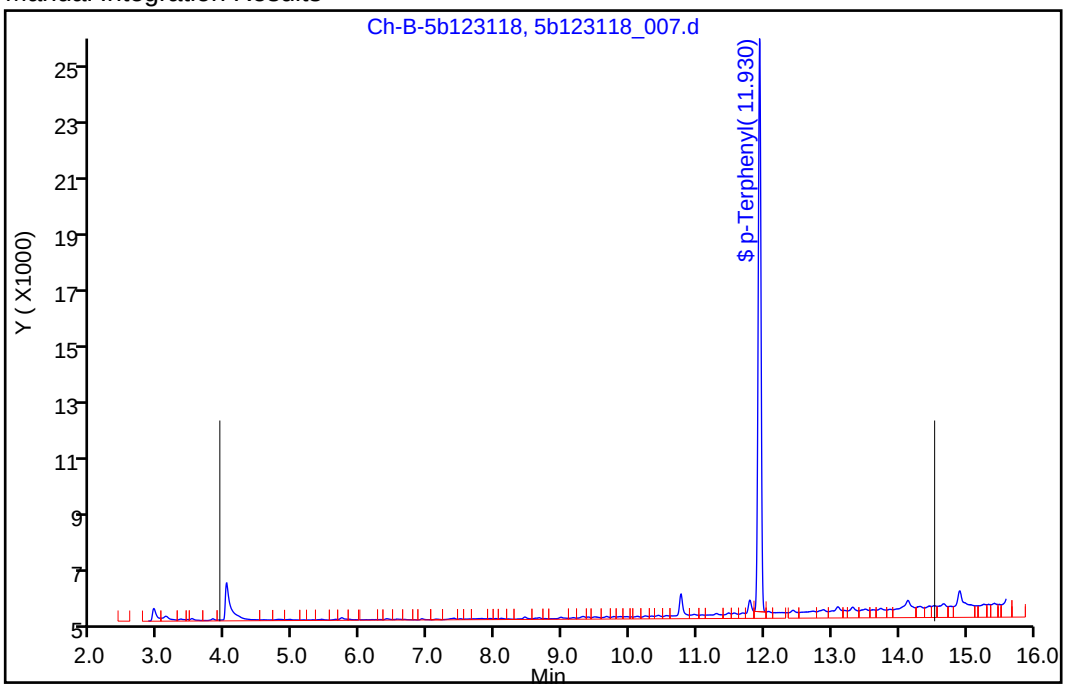
Processing Integration Results

RT: 9.22
Response: 172362
Amount: 17.555328



Manual Integration Results

RT: 9.22
Response: 391683
Amount: 39.893500



Reviewer: luj, 02-Jan-2019 10:52:13

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000022.D
Lims ID: 720-90479-F-19-A
Client ID: DG-AN5S-0.5-1
Sample Type: Client
Inject. Date: 29-Dec-2018 21:38:46 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055885-022
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\DRO6_A.m
Limit Group: DRO
Last Update: 31-Dec-2018 12:14:06 Calib Date: 29-Dec-2018 13:58:02
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 31-Dec-2018 12:14:06

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.209			ND	
	23 n-Decane	2.106	2.086	0.020	75766	NC	
A	21 Stoddard Solvent	2.697	(1.209-4.185)		1541013	1.16	
A	1 C9-C13	2.697	(1.209-4.185)		1541013	NC	
A	57 C10-C12	2.825	(2.086-3.564)		1099354	0.8618	
	24 Dodecane	3.565	3.564	0.001	53539	NC	
A	3 C9 - C17	3.735	(1.209-6.260)		5531301	3.63	M
A	60 C10-C16	3.935	(2.086-5.785)		4510264	3.28	M
A	47 C9 - C18	3.960	(1.209-6.710)		10908828	9.12	M
A	25 C9-C19	4.174	(1.209-7.139)		16425133	10.7	M
A	15 Kerosene	4.174	(1.209-7.139)		16425133	13.7	M
	26 C13	4.184	4.185	-0.001	27584	NC	
$	27 n-Decanoic Acid (Surr)		4.548			ND	U
A	59 C12-C16	4.675	(3.564-5.785)		3410910	2.67	M
A	62 C10-C20	4.818	(2.086-7.550)		31253750	24.5	M
A	28 C9-C24	5.122	(1.209-9.034)		76845010	60.2	M
A	29 C9-C25	5.290	(1.209-9.371)		89430701	70.1	M
A	54 C10-C23	5.385	(2.086-8.684)		66108639	51.8	M
A	4 C10-C24	5.560	(2.086-9.034)		76774607	60.2	M
A	16 C10-C25	5.728	(2.086-9.371)		89360298	70.1	M
	45 Hexadecane	5.788	5.785	0.003	254367	NC	M
A	14 C10-C26	5.891	(2.086-9.696)		95604862	74.9	M
A	67 C12-C22	5.943	(3.564-8.321)		51510929	40.4	M
A	5 Diesel	6.200	(2.086-10.314)		122968745	96.4	M
A	12 Unknown Hydrocarbons	6.200	(2.086-10.314)		122968745	NC	M
A	32 C10-C28	6.200	(2.086-10.314)		122968745	96.4	M
A	30 C13-C22	6.253	(4.185-8.321)		51167257	40.1	M
	44 Heptadecane	6.298	6.260	0.038	1742465	NC	M
A	31 C12-C24	6.299	(3.564-9.034)		75675253	59.3	M
	51 n-Octadecane	6.706	6.710	-0.004	982994	NC	M
A	52 Mineral oil	6.822	(1.209-12.434)		296076344	NC	M
A	11 Bunker Range Organics (C9-	6.822	(1.209-12.434)		296076344	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.822	(1.209-12.434)		296076344	NC	M
33 C19	7.138	7.139	-0.001	1941077	NC	M
A 64 C13-C28	7.250	(4.185-10.314)		121525719	95.3	M
A 17 C10-C36	7.260	(2.086-12.434)		296005941	232.0	M
A 13 C9-C40	7.315	(1.209-13.422)		429957375	387.6	M
A 68 Crude Oil Range Organics (	7.315	(1.209-13.422)		429957375	NC	M
A 58 C16-C24	7.410	(5.785-9.034)		72264343	56.7	M
61 icosane	7.548	7.550	-0.002	2132887	NC	M
A 6 C10-C40	7.754	(2.086-13.422)		429886972	388.3	M
$ 34 p-Terphenyl	8.003	8.008	-0.005	40325782	28.1	
35 n-Docosane	8.319	8.321	-0.002	3427688	NC	M
A 18 C12-C40	8.493	(3.564-13.422)		428787618	399.0	M
36 Tricosane	8.678	8.684	-0.006	6059205	NC	M
A 66 C13-C40	8.803	(4.185-13.422)		428443946	404.6	M
37 n-Tetracosane	9.033	9.034	-0.001	4507053	NC	M
A 2 C16-C36 ORO	9.110	(5.785-12.434)		331444155	383.2	
38 C25	9.369	9.371	-0.002	4984881	NC	M
A 19 C16-C40	9.603	(5.785-13.422)		425376708	409.4	M
46 n-Hexacosane	9.703	9.696	0.007	4887708	NC	M
A 20 C19-C36	9.787	(7.139-12.434)		316455636	306.6	
A 55 C23-C32	10.061	(8.684-11.437)		136320122	246.9	M
39 n-Octacosane	10.324	10.314	0.010	11426546	NC	M
65 C29	10.597	10.608	-0.011	11918100	NC	M
A 7 Motor Oil	10.734	(9.034-12.434)		111065406	156.2	
A 40 C24-C36	10.734	(9.034-12.434)		216667402	304.8	M
A 10 C22-C40	10.871	(8.321-13.422)		206237149	209.0	
A 49 C25-C36	10.903	(9.371-12.434)		211630524	303.4	M
A 41 C23-C40	11.053	(8.684-13.422)		369837538	370.0	M
A 8 C24-C40	11.228	(9.034-13.422)		357619418	378.7	M
56 Dotriacontane	11.407	11.437	-0.030	5515034	NC	M
A 50 C28-C40	11.868	(10.314-13.422)		306918227	418.7	M
A 63 C29-C40	12.015	(10.608-13.422)		295491681	438.1	M
42 n-Hexatriacontane	12.425	12.434	-0.009	3906557	NC	M
43 C40		13.422			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

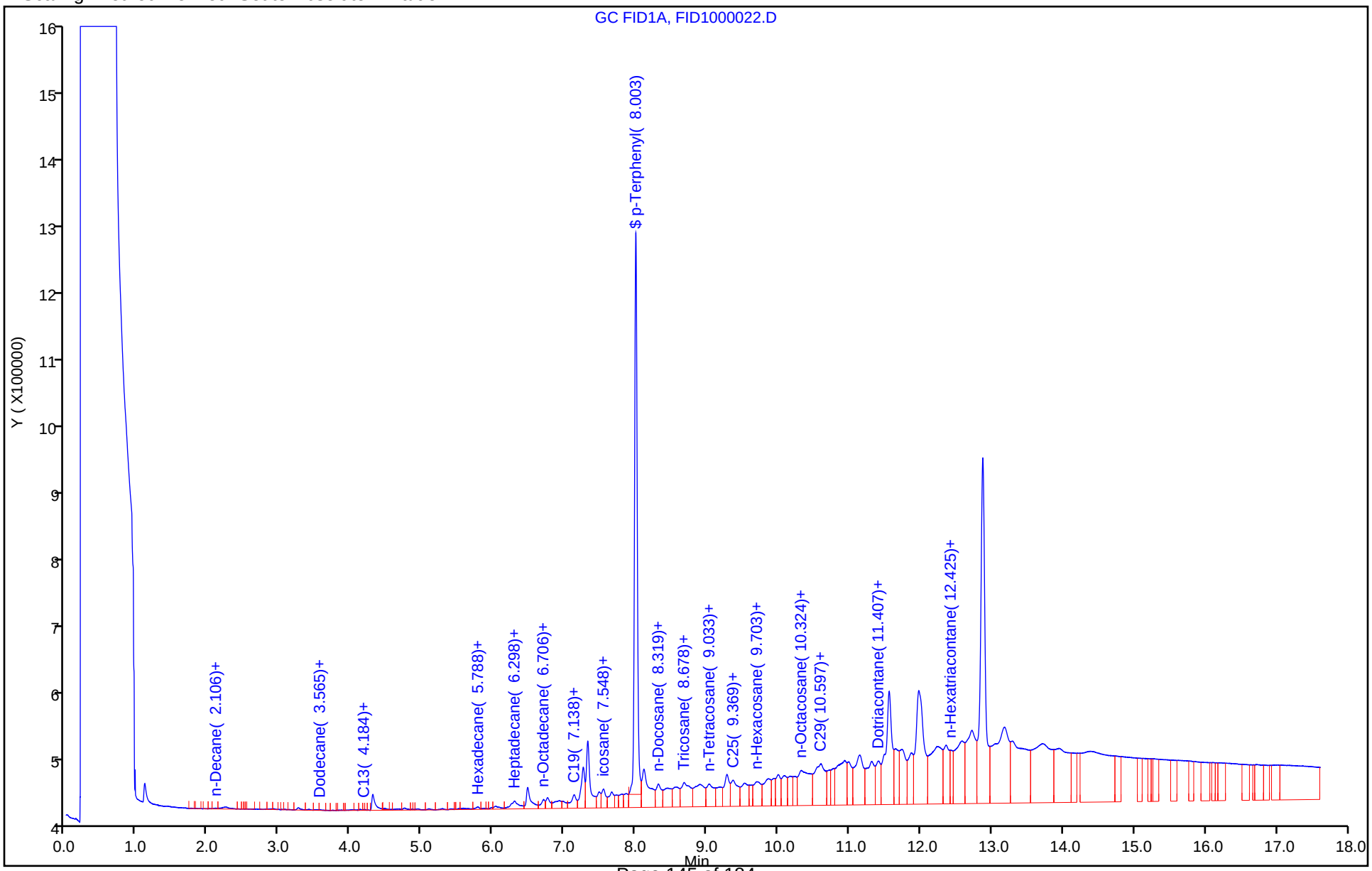
Report Date: 31-Dec-2018 12:14:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000022.D

Injection Date:	29-Dec-2018 21:38:46	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90479-F-19-A	Lab Sample ID:	720-90479-19	Worklist Smp#:	22
Client ID:	DG-AN5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000022.D
Lims ID: 720-90479-F-19-A
Client ID: DG-AN5S-0.5-1
Sample Type: Client
Inject. Date: 29-Dec-2018 21:38:46 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055885-022
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\DRO6_A.m
Limit Group: DRO
Last Update: 31-Dec-2018 12:14:06 Calib Date: 29-Dec-2018 13:58:02
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 31-Dec-2018 12:14:06

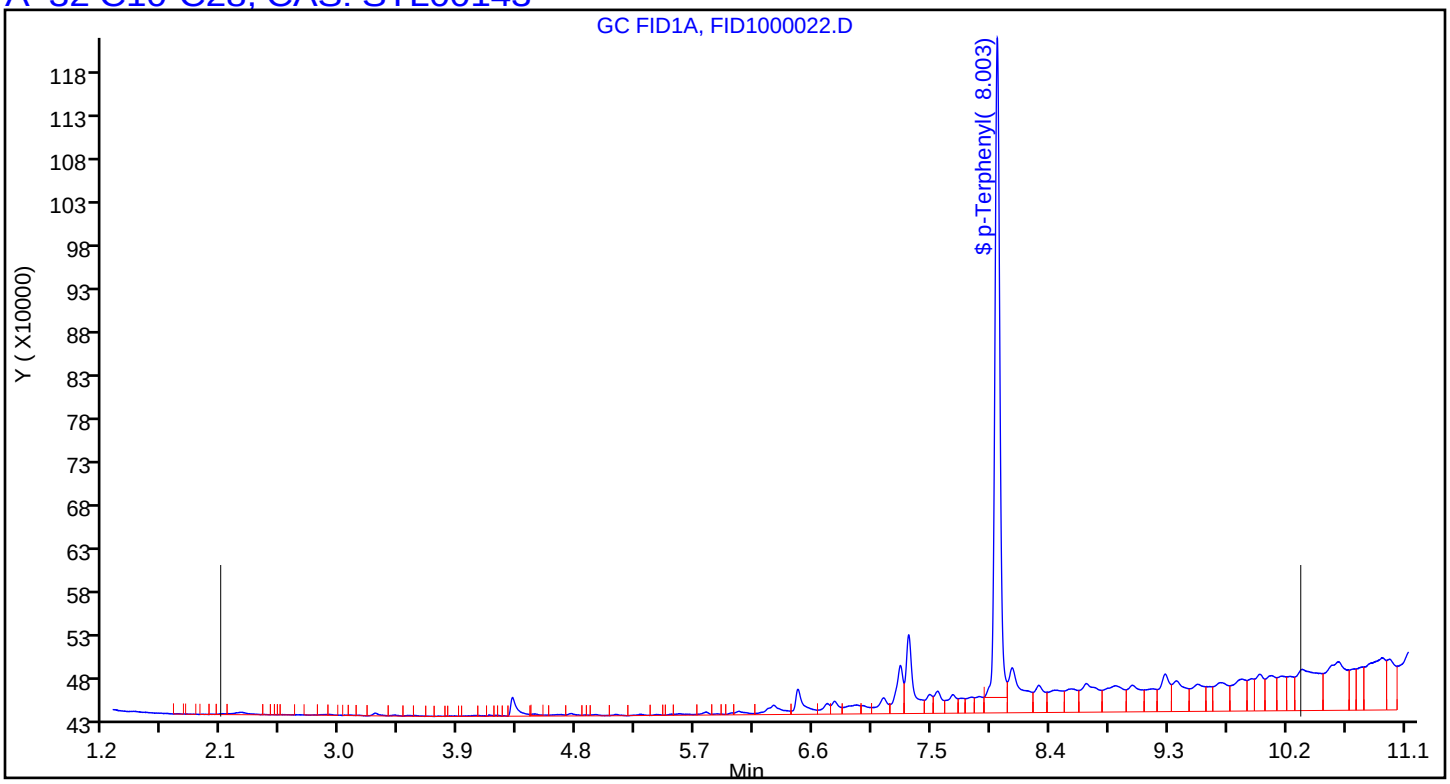
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	28.1	112.50

Report Date: 31-Dec-2018 12:14:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000022.D				
Injection Date:	29-Dec-2018 21:38:46	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-19-A	Lab Sample ID:	720-90479-19		
Client ID:	DG-AN5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

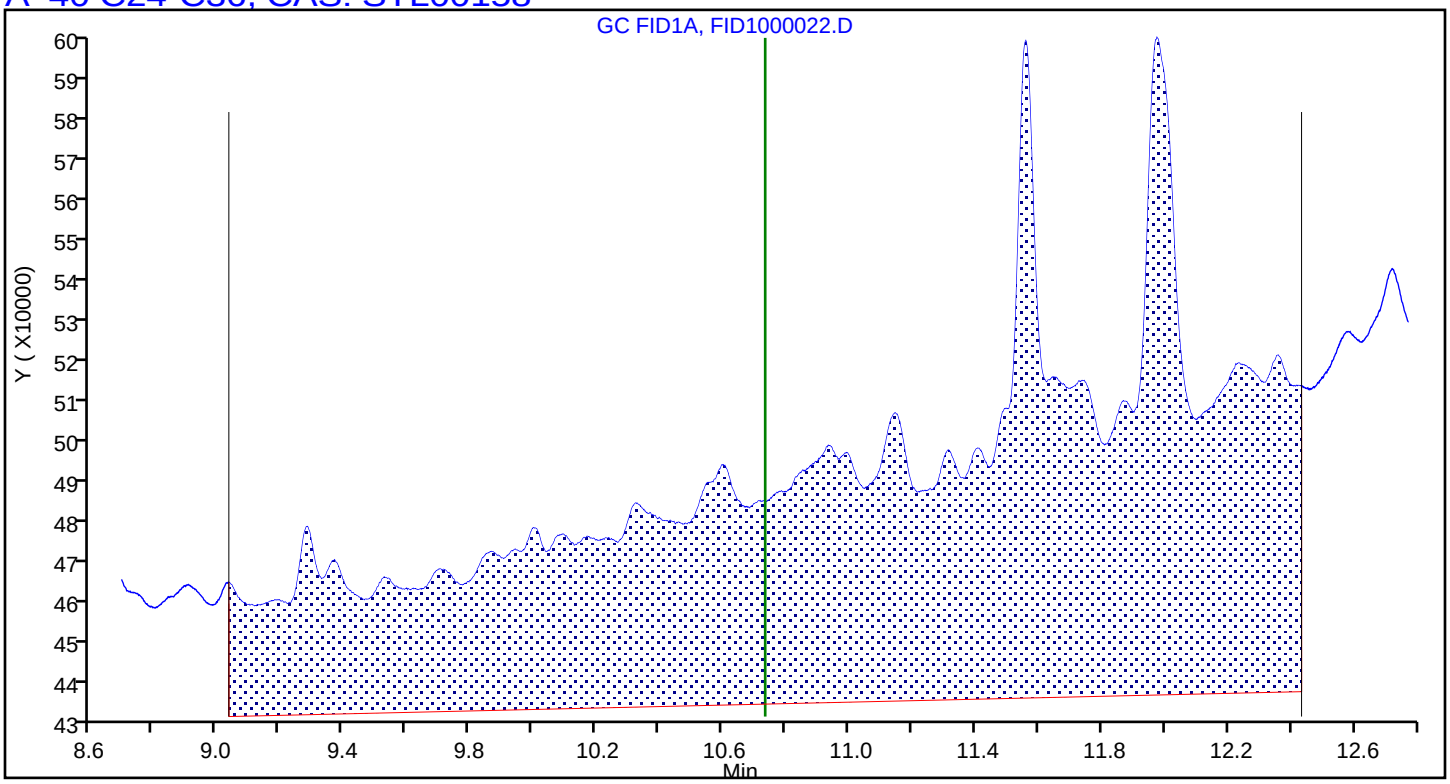


Report Date: 31-Dec-2018 12:14:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000022.D				
Injection Date:	29-Dec-2018 21:38:46	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-19-A	Lab Sample ID:	720-90479-19		
Client ID:	DG-AN5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

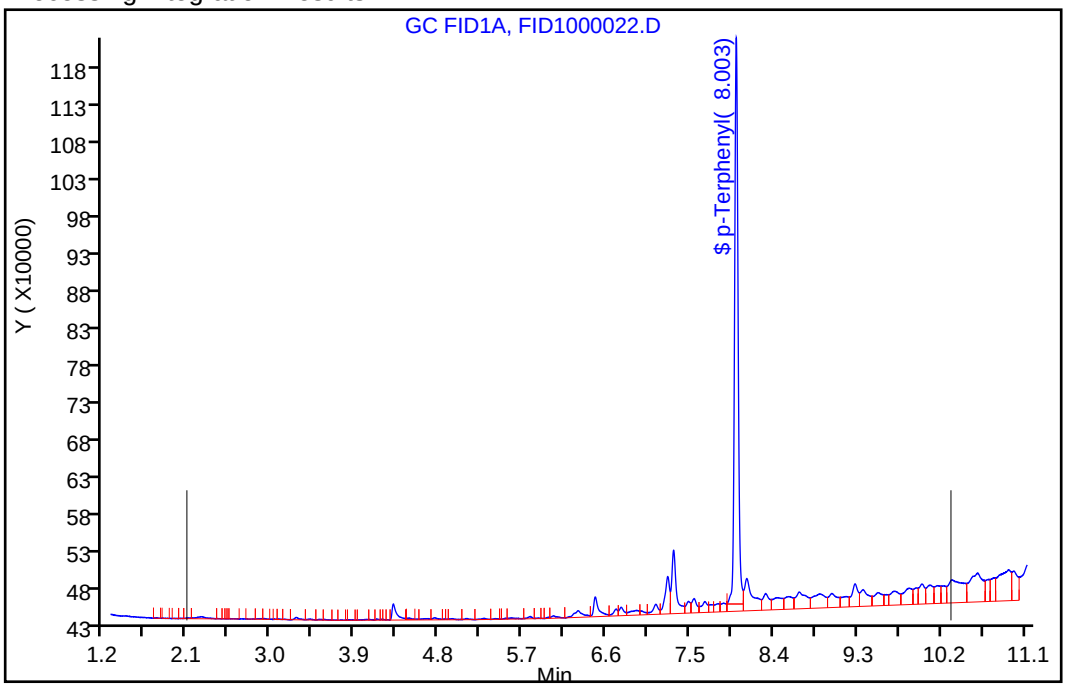
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Injection Date:	29-Dec-2018 21:38:46	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-19-A	Lab Sample ID:	720-90479-19		
Client ID:	DG-AN5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.200, CAS: STL00143

Signal: 1

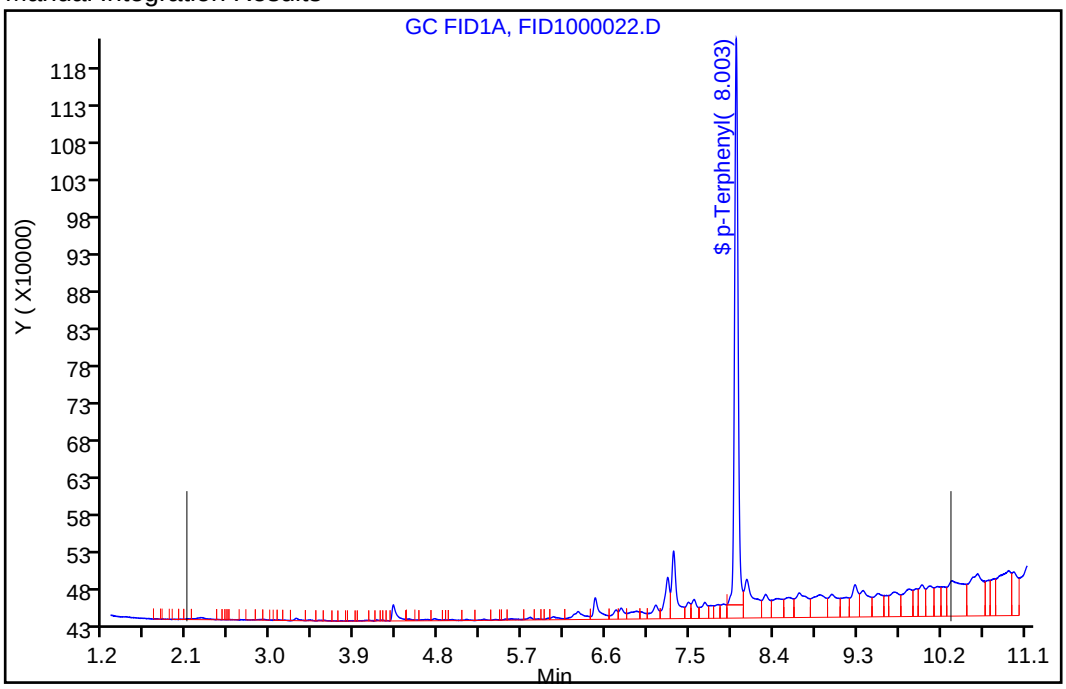
Processing Integration Results

RT: 6.20
Response: 78056172
Amount: 61.191037



Manual Integration Results

RT: 6.20
Response: 122968745
Amount: 96.399616



Reviewer: hayashid, 31-Dec-2018 12:13:51

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

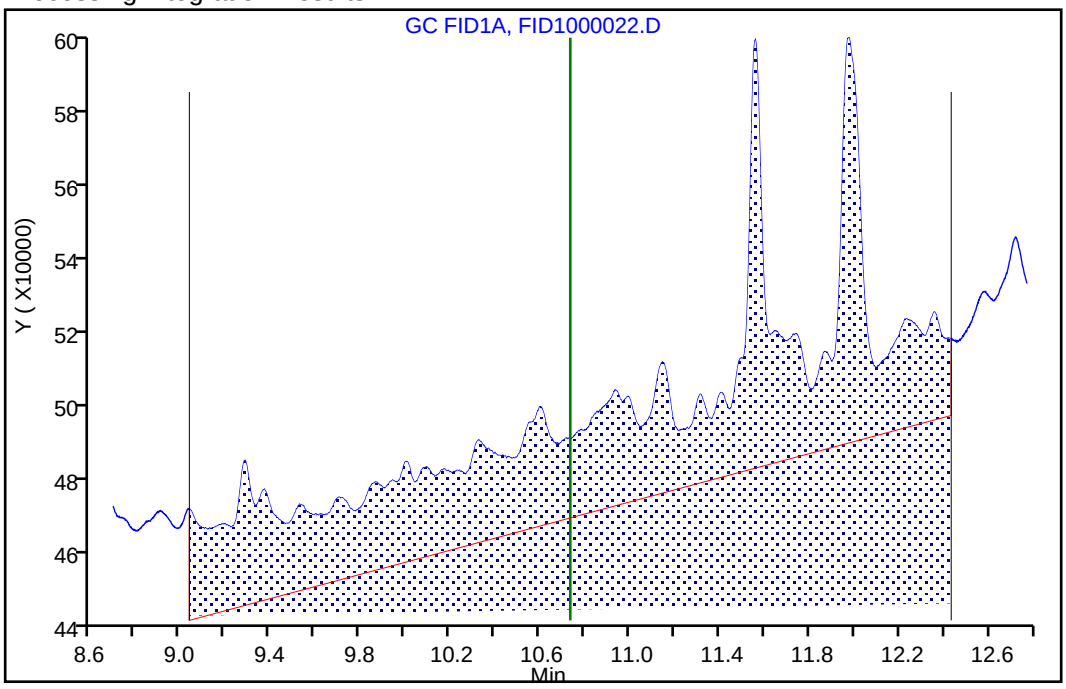
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000022.D				
Injection Date:	29-Dec-2018 21:38:46	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-19-A	Lab Sample ID:	720-90479-19		
Client ID:	DG-AN5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.734, CAS: STL00158

Signal: 1

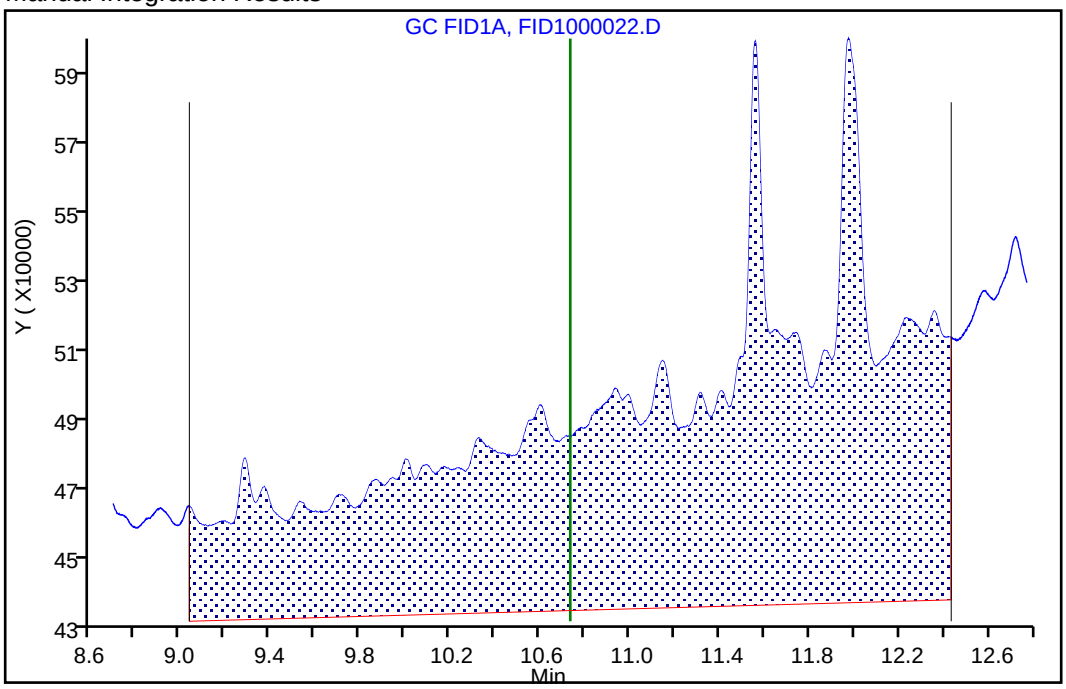
Processing Integration Results

RT: 10.73
Response: 111065406
Amount: 156.2358



Manual Integration Results

RT: 10.73
Response: 216667402
Amount: 304.7862



Reviewer: hayashid, 31-Dec-2018 12:13:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000023.D
Lims ID: 720-90479-F-20-A
Client ID: DG-AN5S-3.5-4
Sample Type: Client
Inject. Date: 29-Dec-2018 22:02:57 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0055885-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\DRO6_A.m
Limit Group: DRO
Last Update: 31-Dec-2018 12:15:06 Calib Date: 29-Dec-2018 13:58:02
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 31-Dec-2018 12:18:37

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.209			ND	
	23 n-Decane	2.095	2.086	0.009	42722	NC	
A	21 Stoddard Solvent	2.697	(1.209-4.185)		1539221	1.16	
A	1 C9-C13	2.697	(1.209-4.185)		1539221	NC	
A	57 C10-C12	2.825	(2.086-3.564)		1221619	0.9577	
	24 Dodecane	3.568	3.564	0.004	53583	NC	
A	3 C9 - C17	3.735	(1.209-6.260)		2896431	1.90	M
A	60 C10-C16	3.935	(2.086-5.785)		2467738	1.80	
A	47 C9 - C18	3.960	(1.209-6.710)		3689629	3.09	M
A	25 C9-C19	4.174	(1.209-7.139)		6607589	4.31	M
A	15 Kerosene	4.174	(1.209-7.139)		6607589	5.52	M
	26 C13	4.204	4.185	0.019	38694	NC	
$	27 n-Decanoic Acid (Surr)		4.548			ND	U
A	59 C12-C16	4.675	(3.564-5.785)		1246119	0.9769	
A	62 C10-C20	4.818	(2.086-7.550)		10407445	8.16	M
A	28 C9-C24	5.122	(1.209-9.034)		54725254	42.9	M
A	29 C9-C25	5.290	(1.209-9.371)		72402848	56.8	M
A	54 C10-C23	5.385	(2.086-8.684)		40605519	31.8	M
A	4 C10-C24	5.560	(2.086-9.034)		54638958	42.8	M
A	16 C10-C25	5.728	(2.086-9.371)		72316552	56.7	M
	45 Hexadecane	5.772	5.785	-0.013	74944	NC	
A	14 C10-C26	5.891	(2.086-9.696)		90116103	70.6	M
A	67 C12-C22	5.943	(3.564-8.321)		27254557	21.4	M
A	5 Diesel	6.200	(2.086-10.314)		145007058	113.7	M
A	12 Unknown Hydrocarbons	6.200	(2.086-10.314)		145007058	NC	M
A	32 C10-C28	6.200	(2.086-10.314)		145007058	113.7	M
A	30 C13-C22	6.253	(4.185-8.321)		27023251	21.2	M
	44 Heptadecane	6.302	6.260	0.042	320080	NC	M
A	31 C12-C24	6.299	(3.564-9.034)		53417339	41.9	M
	51 n-Octadecane	6.762	6.710	0.052	767188	NC	M
A	52 Mineral oil	6.822	(1.209-12.434)		324735041	NC	M
A	11 Bunker Range Organics (C9-	6.822	(1.209-12.434)		324735041	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.822	(1.209-12.434)		324735041	NC	M
33 C19	7.127	7.139	-0.012	919641	NC	M
A 64 C13-C28	7.250	(4.185-10.314)		143554133	112.5	M
A 17 C10-C36	7.260	(2.086-12.434)		324648745	254.5	M
A 13 C9-C40	7.315	(1.209-13.422)		408002679	367.8	M
A 68 Crude Oil Range Organics (	7.315	(1.209-13.422)		408002679	NC	M
A 58 C16-C24	7.410	(5.785-9.034)		52246164	41.0	M
61 icosane	7.553	7.550	0.003	1766611	NC	M
A 6 C10-C40	7.754	(2.086-13.422)		407916383	368.5	M
$ 34 p-Terphenyl	8.003	8.008	-0.005	36032985	25.1	
35 n-Docosane	8.324	8.321	0.003	2459428	NC	M
A 18 C12-C40	8.493	(3.564-13.422)		406694764	378.4	M
36 Tricosane	8.747	8.684	0.063	6661706	NC	M
A 66 C13-C40	8.803	(4.185-13.422)		406463458	383.9	M
37 n-Tetracosane	9.041	9.034	0.007	4973022	NC	M
A 2 C16-C36 ORO	9.110	(5.785-12.434)		357863489	413.8	
38 C25	9.376	9.371	0.005	4517855	NC	M
A 19 C16-C40	9.603	(5.785-13.422)		405523589	390.3	M
46 n-Hexacosane	9.726	9.696	0.030	8404651	NC	M
A 20 C19-C36	9.787	(7.139-12.434)		352452532	341.5	
A 55 C23-C32	10.061	(8.684-11.437)		211627679	383.2	M
39 n-Octacosane	10.310	10.314	-0.004	6090276	NC	M
65 C29	10.618	10.608	0.010	8601019	NC	M
A 7 Motor Oil	10.734	(9.034-12.434)		190805465	268.4	
A 40 C24-C36	10.734	(9.034-12.434)		190805465	268.4	
A 10 C22-C40	10.871	(8.321-13.422)		258690207	262.2	
A 49 C25-C36	10.903	(9.371-12.434)		252332193	361.7	M
A 41 C23-C40	11.053	(8.684-13.422)		367310864	367.5	M
A 8 C24-C40	11.228	(9.034-13.422)		353277425	374.1	M
56 Dotriacontane	11.354	11.437	-0.083	19309867	NC	M
A 50 C28-C40	11.868	(10.314-13.422)		268999601	367.0	M
A 63 C29-C40	12.015	(10.608-13.422)		238835586	354.1	M
42 n-Hexatriacontane	12.437	12.434	0.003	5255417	NC	M
43 C40	13.411	13.422	-0.011	1810046	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

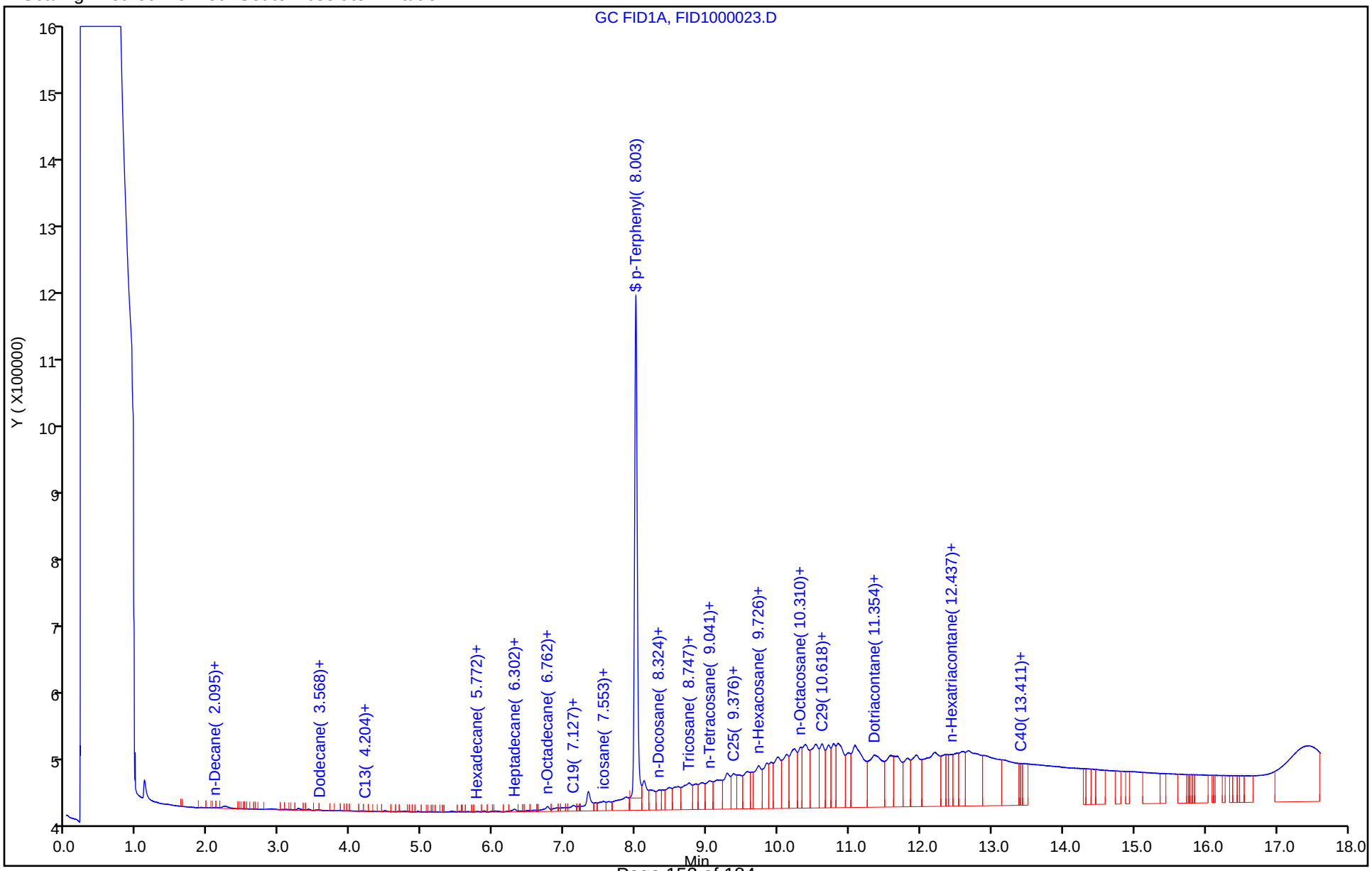
Report Date: 31-Dec-2018 12:18:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000023.D

Injection Date:	29-Dec-2018 22:02:57	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90479-F-20-A	Lab Sample ID:	720-90479-20	Worklist Smp#:	23
Client ID:	DG-AN5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000023.D				
Lims ID:	720-90479-F-20-A				
Client ID:	DG-AN5S-3.5-4				
Sample Type:	Client				
Inject. Date:	29-Dec-2018 22:02:57	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	720-0055885-023				
Operator ID:	RLU	Instrument ID:	CHDRO6		
Method:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\DRO6_A.m				
Limit Group:	DRO				
Last Update:	31-Dec-2018 12:15:06	Calib Date:	29-Dec-2018 13:58:02		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000003.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0332				
First Level Reviewer: hayashid		Date:	31-Dec-2018 12:18:37		

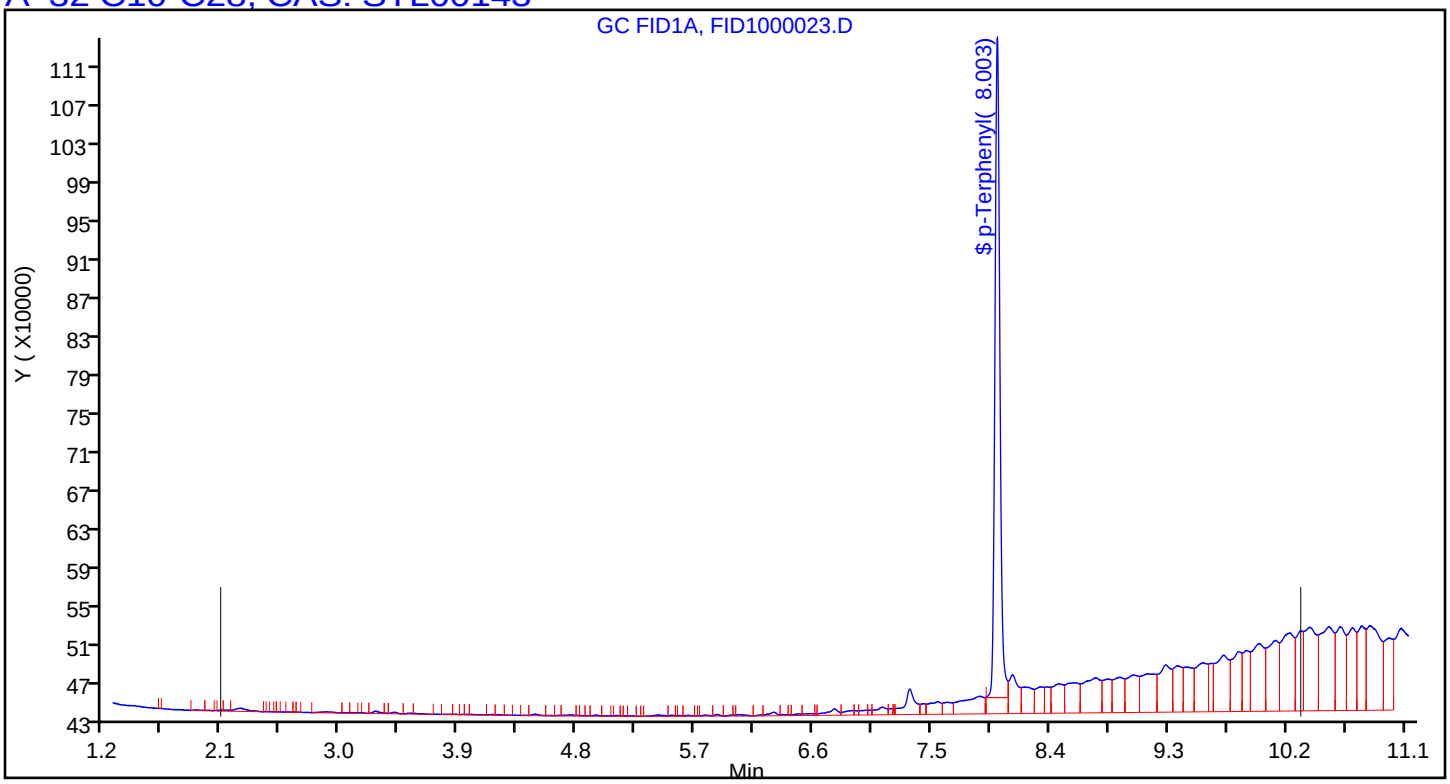
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.1	100.53

Report Date: 31-Dec-2018 12:18:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000023.D				
Injection Date:	29-Dec-2018 22:02:57	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-20-A	Lab Sample ID:	720-90479-20		
Client ID:	DG-AN5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

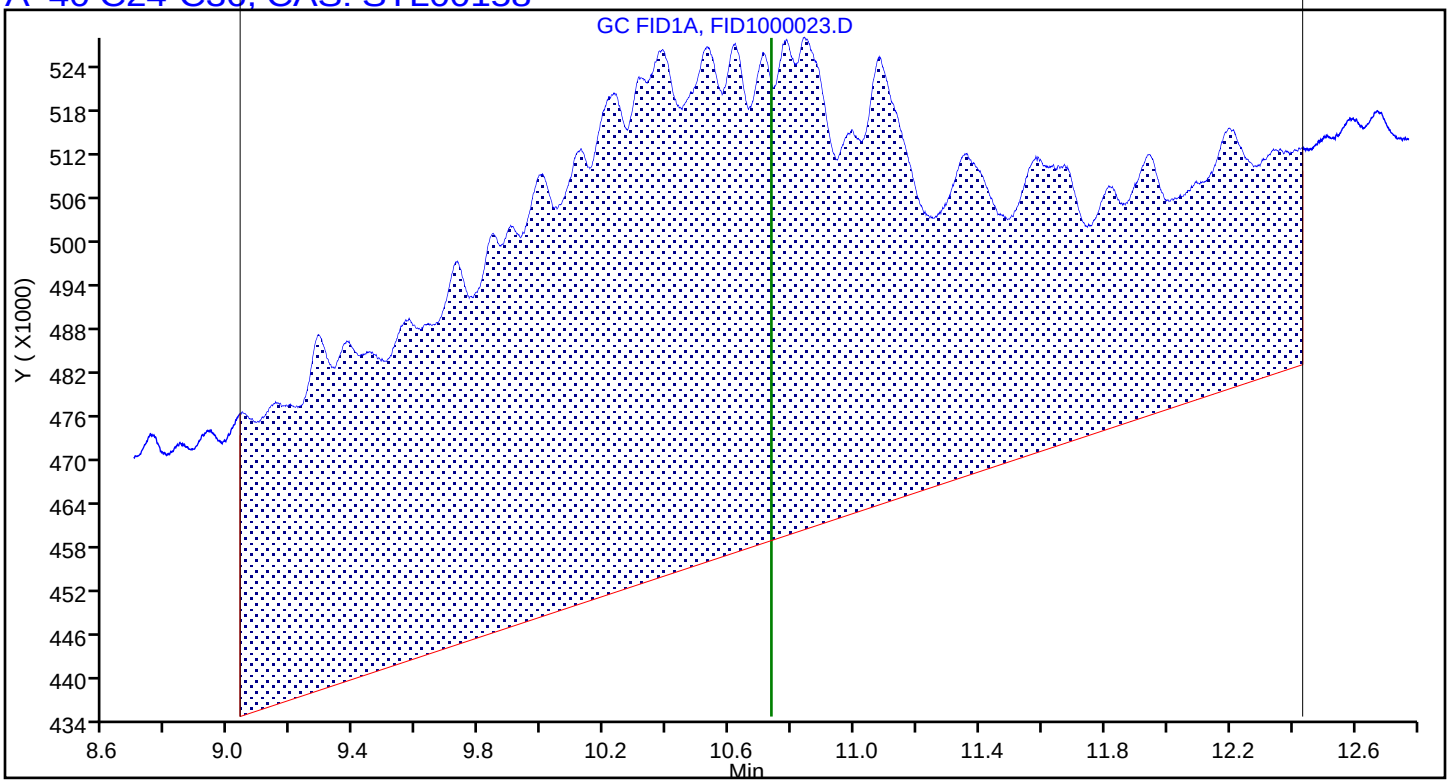


Report Date: 31-Dec-2018 12:18:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000023.D				
Injection Date:	29-Dec-2018 22:02:57	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-20-A	Lab Sample ID:	720-90479-20		
Client ID:	DG-AN5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

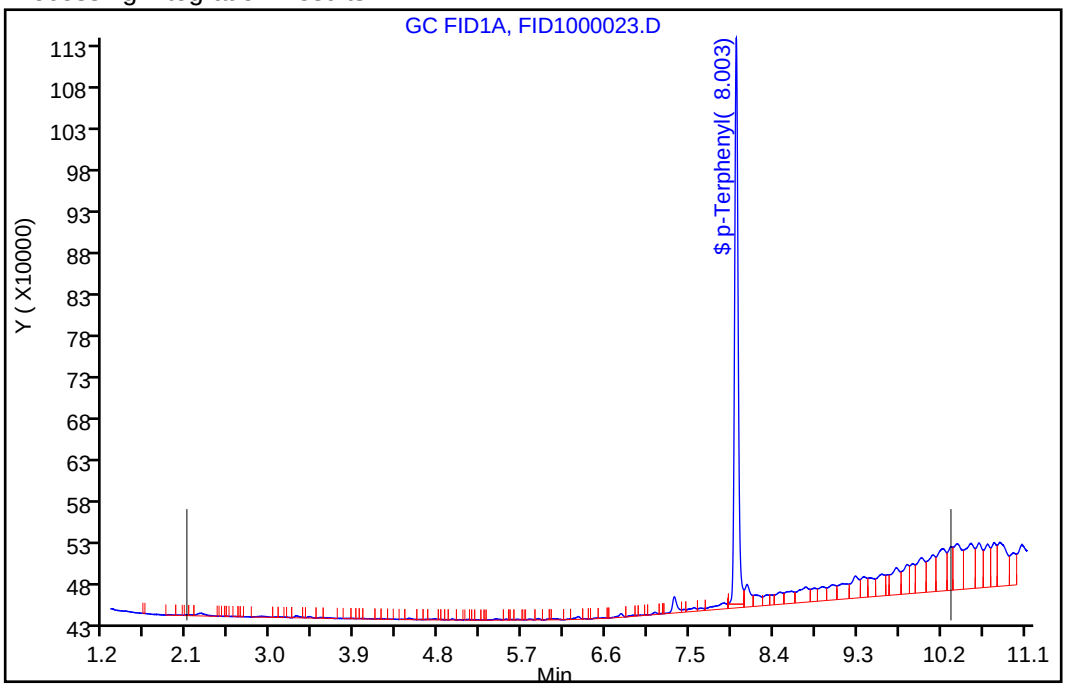
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181229-55885.b\FID1000023.D				
Injection Date:	29-Dec-2018 22:02:57	Instrument ID:	CHDRO6		
Lims ID:	720-90479-F-20-A	Lab Sample ID:	720-90479-20		
Client ID:	DG-AN5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.200, CAS: STL00143

Signal: 1

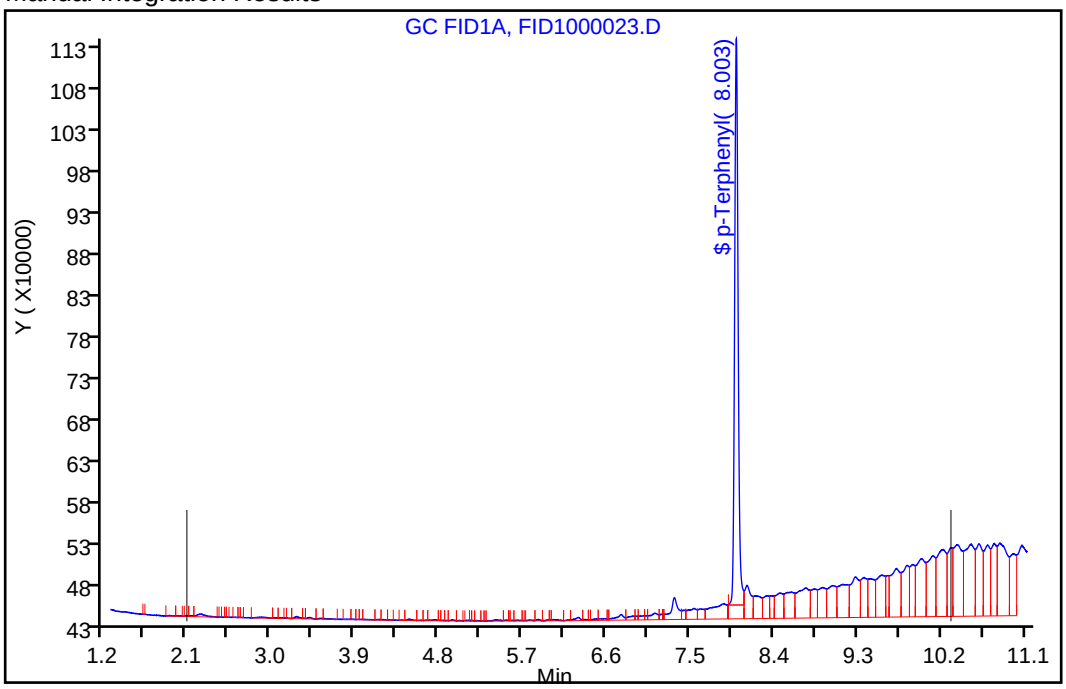
Processing Integration Results

RT: 6.20
Response: 68959807
Amount: 54.060070



Manual Integration Results

RT: 6.20
Response: 145007058
Amount: 113.6762



Reviewer: hayashid, 31-Dec-2018 12:15:04

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000020.D
Lims ID: 720-90479-E-21-B
Client ID: DG-S9S-7
Sample Type: Client
Inject. Date: 27-Dec-2018 20:22:48 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 720-0055855-020
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\DRO6_A.m
Limit Group: DRO
Last Update: 28-Dec-2018 06:28:14 Calib Date: 27-Dec-2018 09:22:29
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 28-Dec-2018 06:28:14

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.279	1.210	0.069	632680	NC	M
	23 n-Decane	2.097	2.087	0.010	212034	NC	M
A	1 C9-C13	2.698	(1.210-4.185)		24142210	NC	M
A	21 Stoddard Solvent	2.698	(1.210-4.185)		24142210	18.2	M
A	57 C10-C12	2.826	(2.087-3.565)		8668990	6.80	M
	24 Dodecane	3.535	3.565	-0.030	646790	NC	M
A	3 C9 - C17	3.735	(1.210-6.260)		137635351	90.2	M
A	60 C10-C16	3.936	(2.087-5.785)		109611496	79.8	M
A	47 C9 - C18	3.960	(1.210-6.709)		192077381	160.6	M
A	15 Kerosene	4.174	(1.210-7.138)		253292484	211.6	M
A	25 C9-C19	4.174	(1.210-7.138)		253292484	165.2	M
	26 C13	4.126	4.185	-0.059	1585469	NC	M
$	27 n-Decanoic Acid (Surr)		4.546			ND	U
A	59 C12-C16	4.675	(3.565-5.785)		100942506	79.1	M
A	62 C10-C20	4.818	(2.087-7.549)		325483238	255.2	M
A	28 C9-C24	5.121	(1.210-9.031)		646901897	507.1	M
A	29 C9-C25	5.289	(1.210-9.368)		718189625	563.0	M
A	54 C10-C23	5.384	(2.087-8.682)		569601098	446.5	M
A	4 C10-C24	5.559	(2.087-9.031)		645684908	506.2	M
A	16 C10-C25	5.727	(2.087-9.368)		716972636	562.1	M
	45 Hexadecane	5.782	5.785	-0.003	2658560	NC	M
A	14 C10-C26	5.889	(2.087-9.692)		790790474	619.9	M
A	67 C12-C22	5.942	(3.565-8.320)		467657207	366.6	M
A	32 C10-C28	6.198	(2.087-10.310)		923617313	724.1	M
A	12 Unknown Hydrocarbons	6.198	(2.087-10.310)		923617313	NC	M
A	5 Diesel	6.198	(2.087-10.310)		923617313	724.1	M
A	30 C13-C22	6.252	(4.185-8.320)		453400976	355.4	M
	44 Heptadecane	6.302	6.260	0.042	18639204	NC	M
A	31 C12-C24	6.298	(3.565-9.031)		637015918	499.4	M
	51 n-Octadecane	6.668	6.709	-0.041	7829300	NC	M
A	9 Crude Oil Range Organics (	6.819	(1.210-12.428)		1368220228	NC	M
A	11 Bunker Range Organics (C9-	6.819	(1.210-12.428)		1368220228	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.819	(1.210-12.428)		1368220228	NC	M
33 C19	7.122	7.138	-0.016	11521776	NC	M
A 64 C13-C28	7.247	(4.185-10.310)		900692092	706.1	M
A 17 C10-C36	7.257	(2.087-12.428)		1367003239	1071.6	M
A 68 Crude Oil Range Organics (	7.312	(1.210-13.413)		1721354263	NC	M
A 13 C9-C40	7.312	(1.210-13.413)		1721354263	1551.9	M
A 58 C16-C24	7.408	(5.785-9.031)		538731972	422.3	M
61 icosane	7.547	7.549	-0.002	10423590	NC	M
A 6 C10-C40	7.750	(2.087-13.413)		1720137274	1553.7	M
$ 34 p-Terphenyl		8.007			ND	U
35 n-Docosane	8.357	8.320	0.037	14764403	NC	M
A 18 C12-C40	8.489	(3.565-13.413)		1711468284	1592.5	M
36 Tricosane	8.615	8.682	-0.067	28603110	NC	M
A 66 C13-C40	8.799	(4.185-13.413)		1697212053	1602.8	M
37 n-Tetracosane	9.014	9.031	-0.017	12575015	NC	M
A 2 C16-C36 ORO	9.106	(5.785-12.428)		1290236021	1491.9	
38 C25	9.382	9.368	0.014	38385422	NC	M
A 19 C16-C40	9.599	(5.785-13.413)		1613184338	1552.6	M
46 n-Hexacosane	9.678	9.692	-0.014	12310119	NC	M
A 20 C19-C36	9.783	(7.138-12.428)		1139370881	1104.1	
A 55 C23-C32	10.057	(8.682-11.431)		644816076	1167.7	M
39 n-Octacosane	10.370	10.310	0.060	46962658	NC	M
65 C29	10.625	10.603	0.022	17322474	NC	M
A 40 C24-C36	10.730	(9.031-12.428)		719438999	1012.0	M
A 7 Motor Oil	10.730	(9.031-12.428)		485076731	682.4	
A 10 C22-C40	10.866	(8.320-13.413)		724851476	734.6	
A 49 C25-C36	10.898	(9.368-12.428)		650030603	931.9	M
A 41 C23-C40	11.048	(8.682-13.413)		1179139286	1179.7	M
A 8 C24-C40	11.222	(9.031-13.413)		1074452366	1137.8	M
56 Dotriacontane	11.358	11.431	-0.073	48533915	NC	M
A 50 C28-C40	11.861	(10.310-13.413)		796519961	1086.7	M
A 63 C29-C40	12.008	(10.603-13.413)		727601139	1078.9	M
42 n-Hexatriacontane	12.394	12.428	-0.034	3273188	NC	M
43 C40		13.413			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

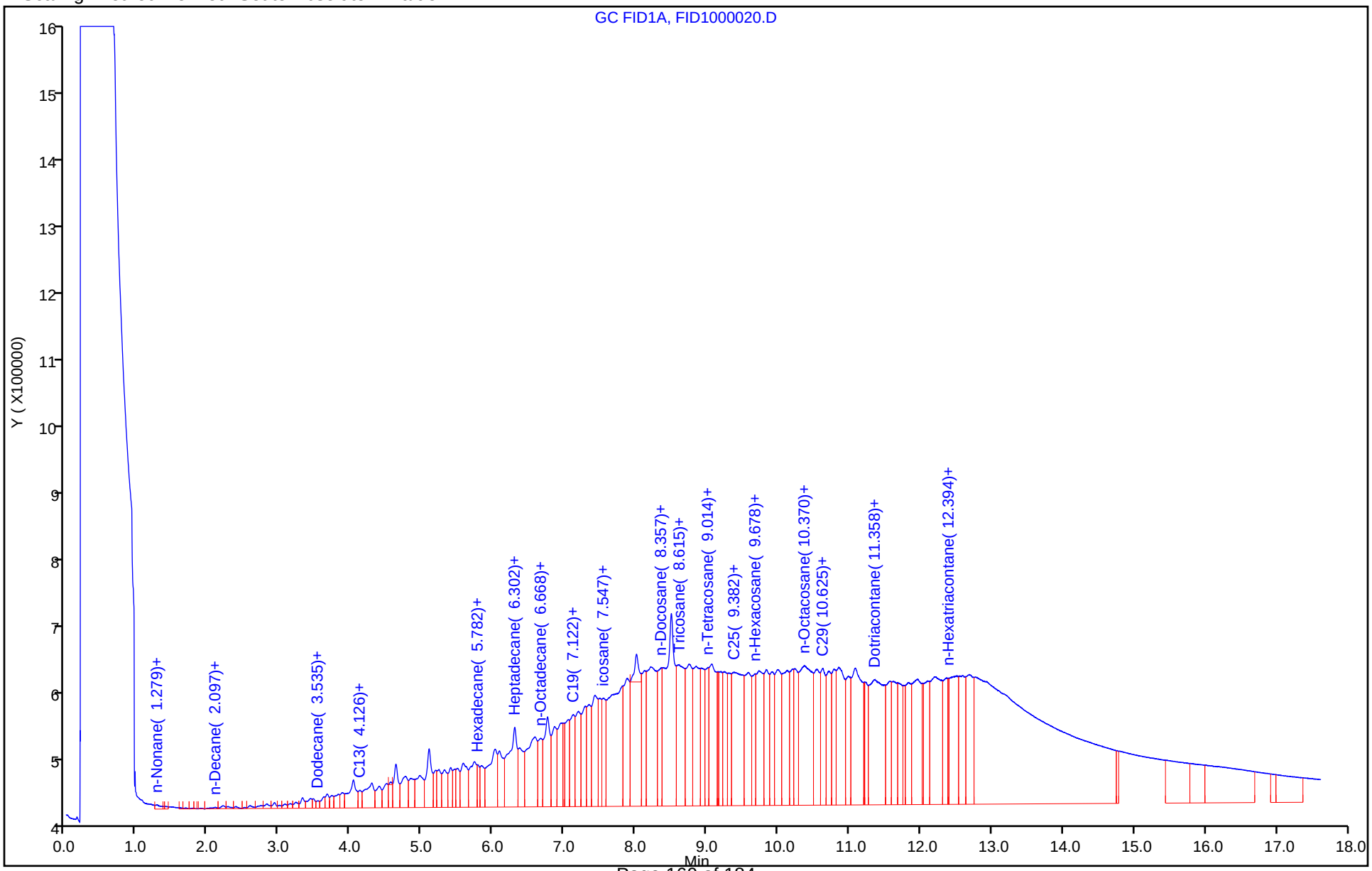
Report Date: 28-Dec-2018 06:28:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000020.D

Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90479-E-21-B	Lab Sample ID:	720-90479-21	Worklist Smp#:	20
Client ID:	DG-S9S-7				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	20
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

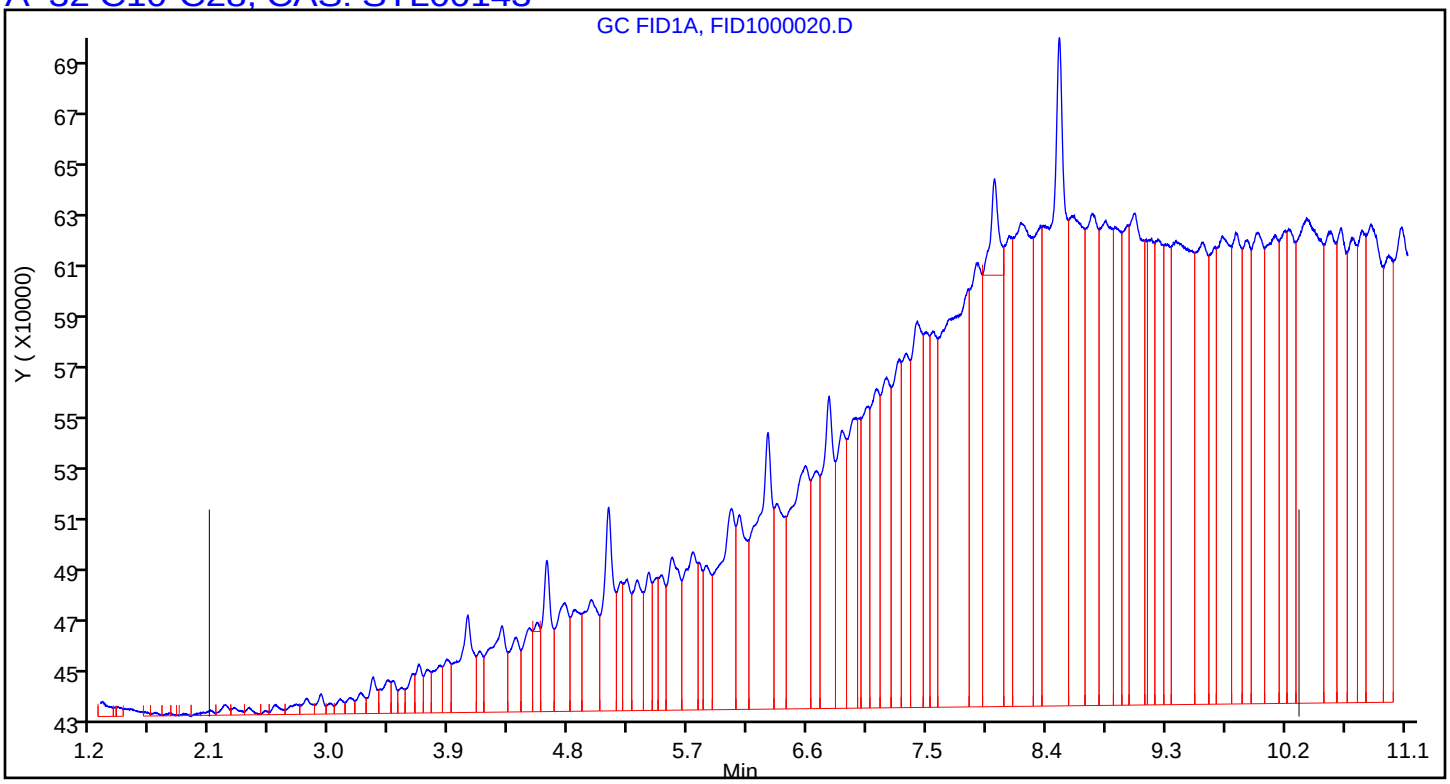


Report Date: 28-Dec-2018 06:28:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-21-B	Lab Sample ID:	720-90479-21		
Client ID:	DG-S9S-7				
Operator ID:	RLU	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

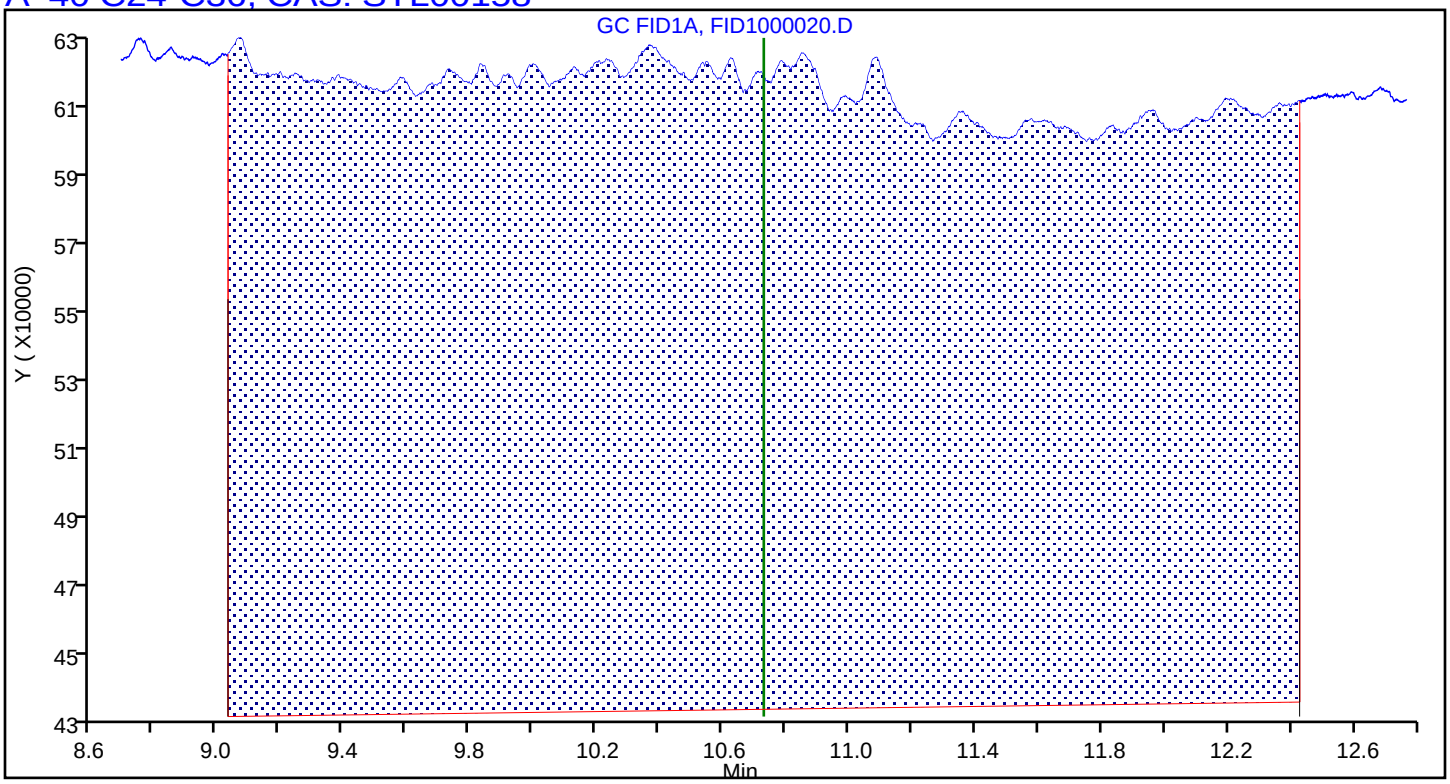


Report Date: 28-Dec-2018 06:28:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-21-B	Lab Sample ID:	720-90479-21		
Client ID:	DG-S9S-7				
Operator ID:	RLU	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

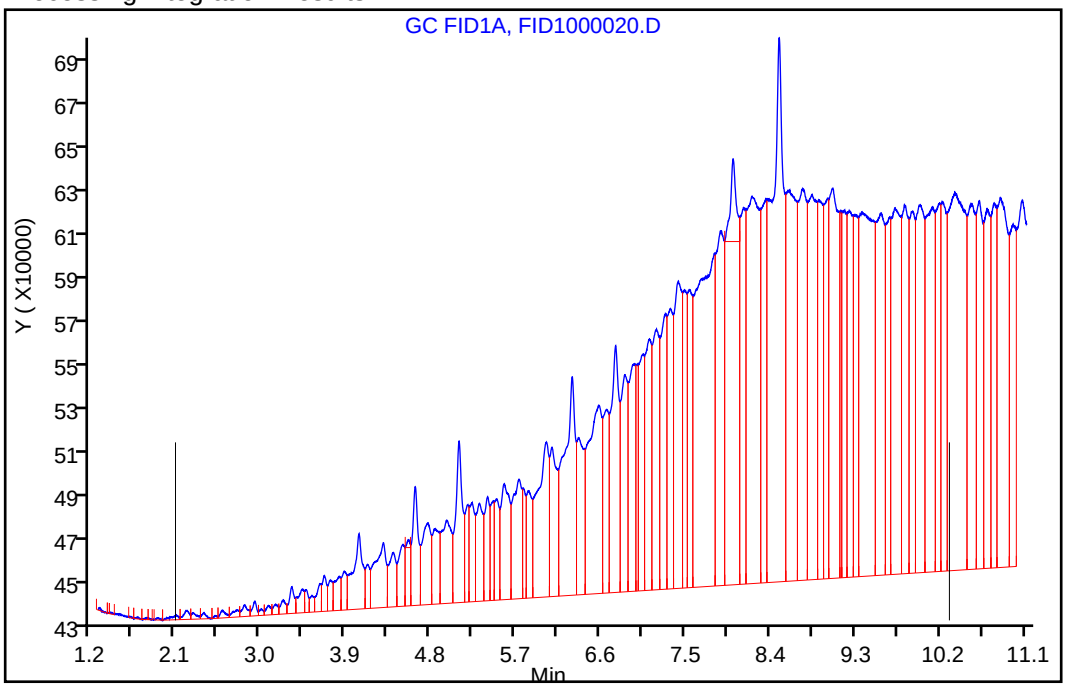
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-21-B	Lab Sample ID:	720-90479-21		
Client ID:	DG-S9S-7				
Operator ID:	RLU	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.198, CAS: STL00143

Signal: 1

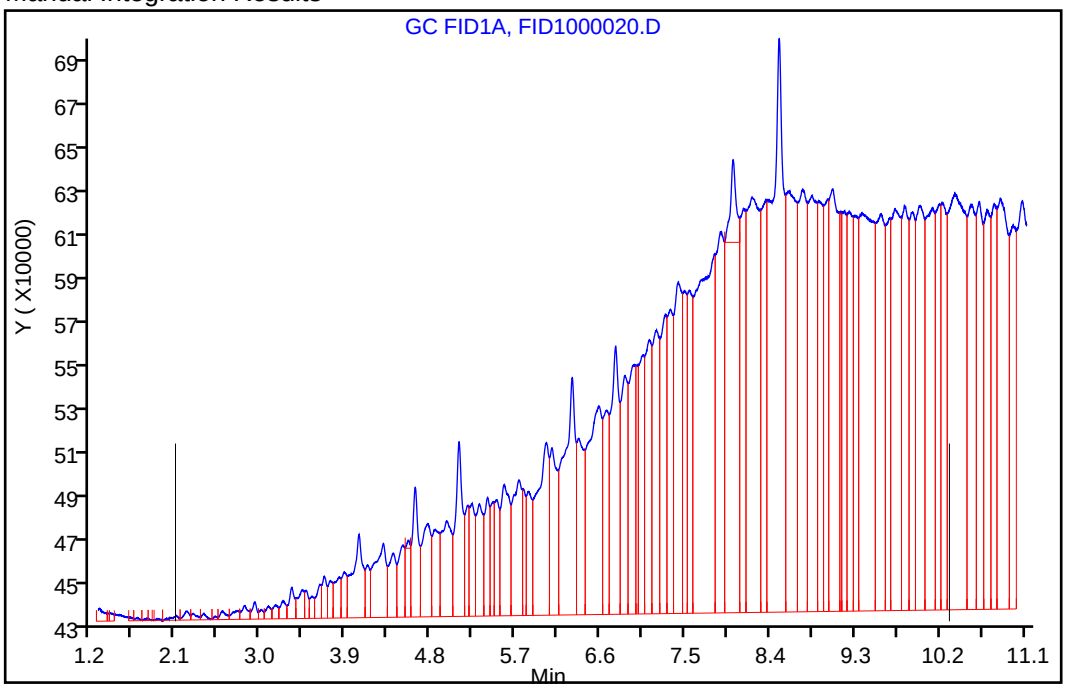
Processing Integration Results

RT: 6.20
Response: 829211150
Amount: 650.0484



Manual Integration Results

RT: 6.20
Response: 923617313
Amount: 724.0568



Reviewer: hayashid, 28-Dec-2018 06:27:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

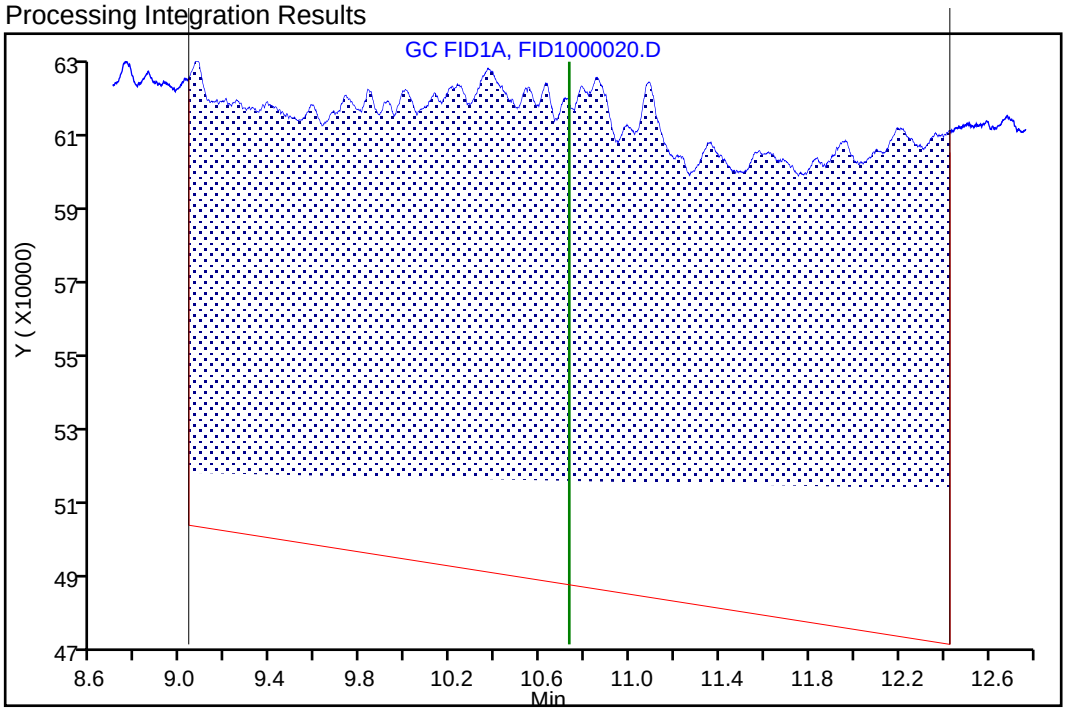
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-21-B	Lab Sample ID:	720-90479-21		
Client ID:	DG-S9S-7				
Operator ID:	RLU	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.730, CAS: STL00158

Signal: 1

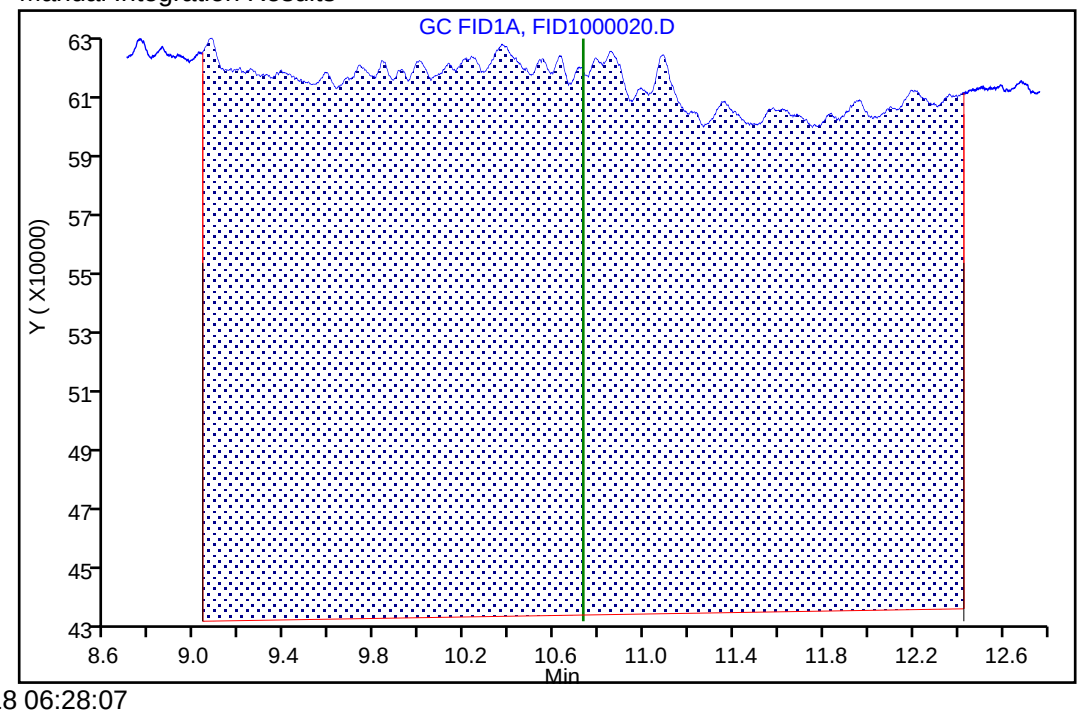
Processing Integration Results

RT: 10.73
Response: 485076731
Amount: 682.3577



Manual Integration Results

RT: 10.73
Response: 719438999
Amount: 1012.0352



Reviewer: hayashid, 28-Dec-2018 06:28:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

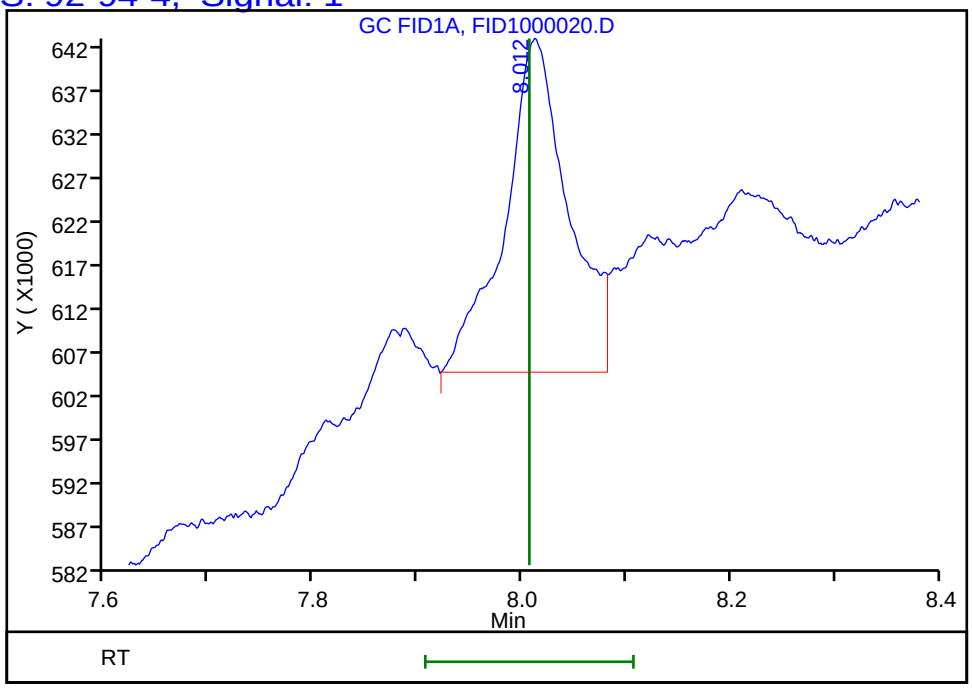
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181227-55855.b\FID1000020.D				
Injection Date:	27-Dec-2018 20:22:48	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-21-B	Lab Sample ID:	720-90479-21		
Client ID:	DG-S9S-7				
Operator ID:	RLU	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.01
Response: 3219593
Amount: 2.245528



Reviewer: hayashid, 28-Dec-2018 06:27:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000026.D
Lims ID: 720-90479-E-22-D
Client ID: DG-S9S-4.5-5
Sample Type: Client
Inject. Date: 28-Dec-2018 22:36:03 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: 720-0055876-026
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\DRO6_A.m
Limit Group: DRO
Last Update: 31-Dec-2018 09:54:02 Calib Date: 28-Dec-2018 10:37:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0332

First Level Reviewer: hayashid Date: 31-Dec-2018 09:54:02

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	1.271	1.210	0.061	21870	NC	
23 n-Decane	2.122	2.086	0.036	149823	NC	
A 21 Stoddard Solvent	2.698	(1.210-4.185)		1574298	1.19	
A 1 C9-C13	2.698	(1.210-4.185)		1574298	NC	
A 57 C10-C12	2.826	(2.086-3.565)		1189578	0.9326	
24 Dodecane	3.541	3.565	-0.024	92674	NC	
A 3 C9 - C17	3.735	(1.210-6.260)		6248238	4.10	M
A 60 C10-C16	3.935	(2.086-5.784)		2648594	1.93	M
A 47 C9 - C18	3.960	(1.210-6.710)		17688491	14.8	M
A 25 C9-C19	4.174	(1.210-7.139)		39483474	25.8	M
A 15 Kerosene	4.174	(1.210-7.139)		39483474	33.0	M
26 C13	4.209	4.185	0.024	19149	NC	
$ 27 n-Decanoic Acid (Surr)		4.548			ND	U
A 59 C12-C16	4.675	(3.565-5.784)		1551690	1.22	M
A 62 C10-C20	4.818	(2.086-7.549)		72785199	57.1	M
A 28 C9-C24	5.121	(1.210-9.032)		334977574	262.6	M
A 29 C9-C25	5.289	(1.210-9.369)		383508449	300.6	M
A 54 C10-C23	5.385	(2.086-8.683)		262260673	205.6	M
A 4 C10-C24	5.559	(2.086-9.032)		334859840	262.5	M
A 16 C10-C25	5.727	(2.086-9.369)		383390715	300.6	M
45 Hexadecane		5.784			ND	
A 14 C10-C26	5.890	(2.086-9.694)		441994464	346.5	M
A 67 C12-C22	5.943	(3.565-8.320)		190662691	149.5	M
A 5 Diesel	6.198	(2.086-10.311)		588656583	461.5	M
A 12 Unknown Hydrocarbons	6.198	(2.086-10.311)		588656583	NC	M
A 32 C10-C28	6.198	(2.086-10.311)		588656583	461.5	M
A 30 C13-C22	6.252	(4.185-8.320)		190371161	149.2	M
44 Heptadecane		6.260			ND	
A 31 C12-C24	6.299	(3.565-9.032)		333762936	261.6	M
51 n-Octadecane		6.710			ND	
A 52 Mineral oil	6.820	(1.210-12.430)		1132932308	NC	M
A 11 Bunker Range Organics (C9-	6.820	(1.210-12.430)		1132932308	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.820	(1.210-12.430)		1132932308	NC	M
33 C19	7.041	7.139	-0.097	21794983	NC	M
A 64 C13-C28	7.248	(4.185-10.311)		587268149	460.4	M
A 17 C10-C36	7.258	(2.086-12.430)		1132814574	888.1	M
A 13 C9-C40	7.313	(1.210-13.416)		1519663780	1370.1	M
A 68 Crude Oil Range Organics (	7.313	(1.210-13.416)		1519663780	NC	M
A 58 C16-C24	7.408	(5.784-9.032)		332211246	260.4	M
61 icosane	7.559	7.549	0.010	15357339	NC	M
A 6 C10-C40	7.751	(2.086-13.416)		1519546046	1372.5	M
$ 34 p-Terphenyl		8.009			ND	U
35 n-Docosane	8.377	8.320	0.057	21645702	NC	M
A 18 C12-C40	8.490	(3.565-13.416)		1518449142	1412.9	M
36 Tricosane	8.655	8.683	-0.028	10586179	NC	M
A 66 C13-C40	8.800	(4.185-13.416)		1518157612	1433.7	M
37 n-Tetracosane	9.010	9.032	-0.022	26179740	NC	M
A 2 C16-C36 ORO	9.107	(5.784-12.430)		1208250071	1397.1	
38 C25	9.404	9.369	0.035	16675608	NC	M
A 19 C16-C40	9.600	(5.784-13.416)		1516897452	1460.0	M
46 n-Hexacosane	9.729	9.694	0.035	23890238	NC	M
A 20 C19-C36	9.784	(7.139-12.430)		1159528343	1123.6	
A 55 C23-C32	10.057	(8.683-11.432)		648227050	1173.9	M
39 n-Octacosane	10.362	10.311	0.051	54938097	NC	M
65 C29	10.617	10.605	0.013	22498894	NC	M
A 7 Motor Oil	10.731	(9.032-12.430)		639591709	899.7	
A 40 C24-C36	10.731	(9.032-12.430)		809186331	1138.3	M
A 10 C22-C40	10.868	(8.320-13.416)		929133989	941.6	
A 49 C25-C36	10.899	(9.369-12.430)		749423859	1074.4	M
A 41 C23-C40	11.049	(8.683-13.416)		1267871552	1268.5	M
A 8 C24-C40	11.224	(9.032-13.416)		1210865946	1282.2	M
56 Dotriacontane	11.482	11.432	0.050	11137886	NC	M
A 50 C28-C40	11.863	(10.311-13.416)		930889463	1270.0	M
A 63 C29-C40	12.010	(10.605-13.416)		848264881	1257.8	M
42 n-Hexatriacontane	12.501	12.430	0.071	30589288	NC	M
43 C40		13.416			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

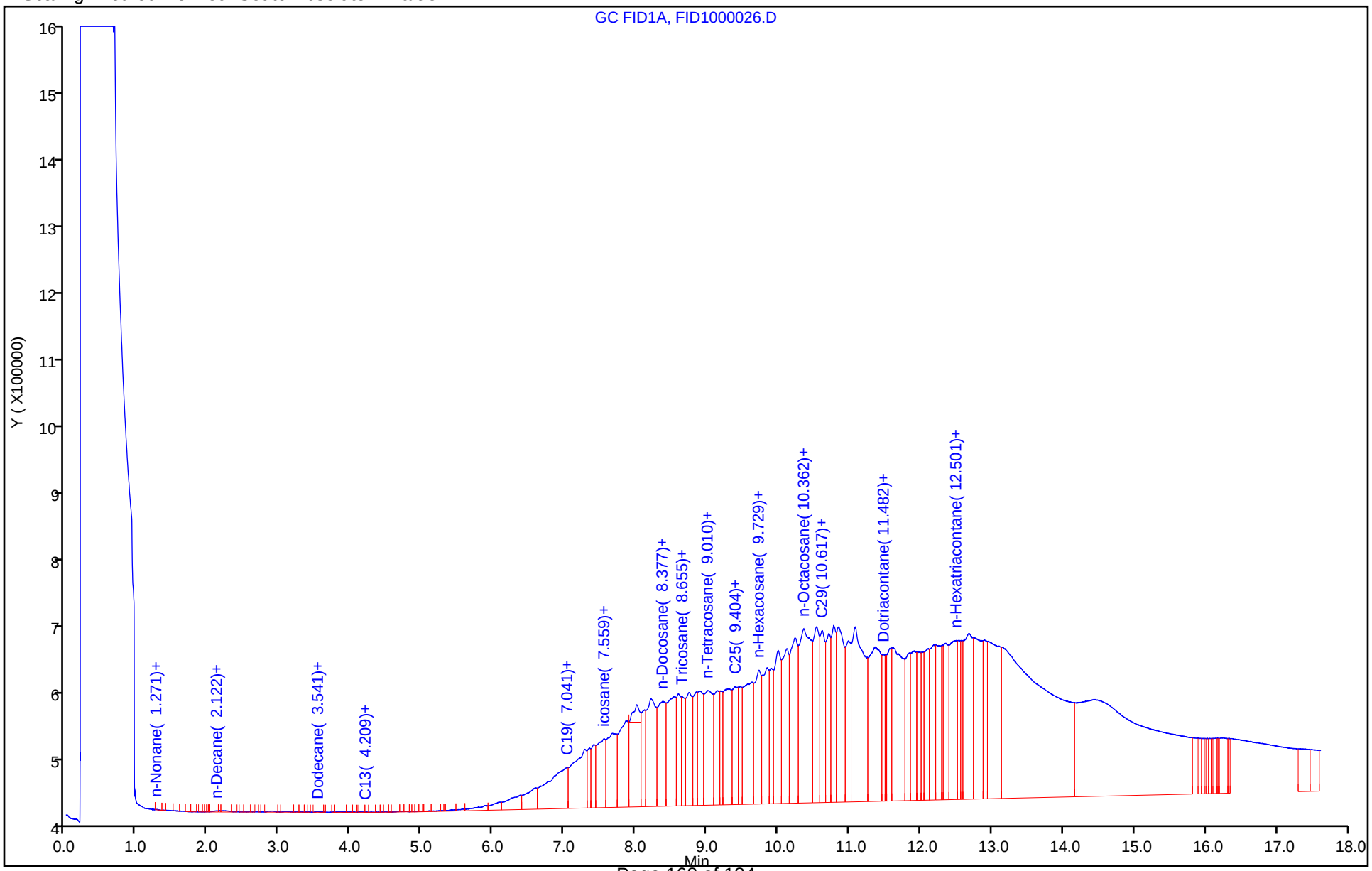
Report Date: 31-Dec-2018 09:54:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000026.D

Injection Date:	28-Dec-2018 22:36:03	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90479-E-22-D	Lab Sample ID:	720-90479-22	Worklist Smp#:	26
Client ID:	DG-S9S-4.5-5				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	26
Method:	DRO6_A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

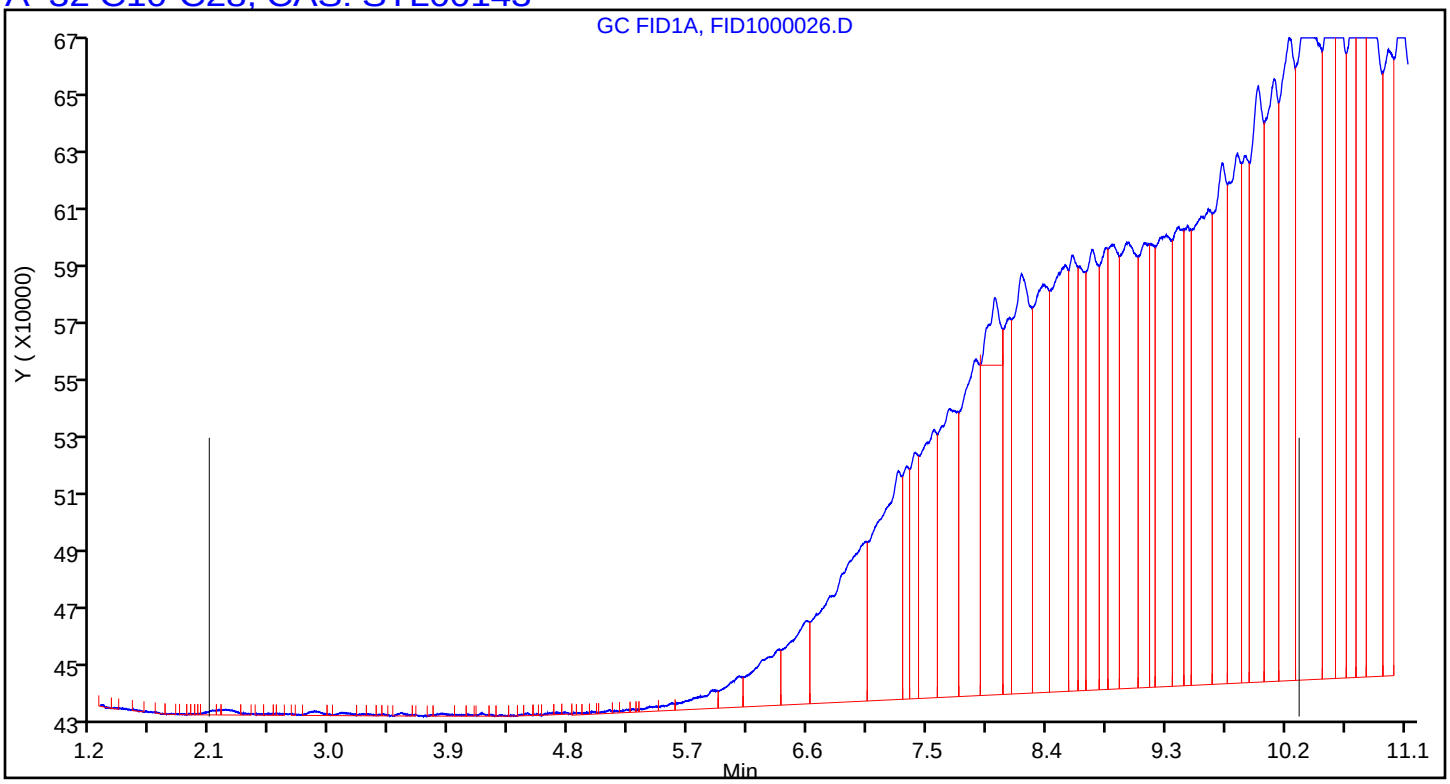


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TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000026.D				
Injection Date:	28-Dec-2018 22:36:03	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-22-D	Lab Sample ID:	720-90479-22		
Client ID:	DG-S9S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

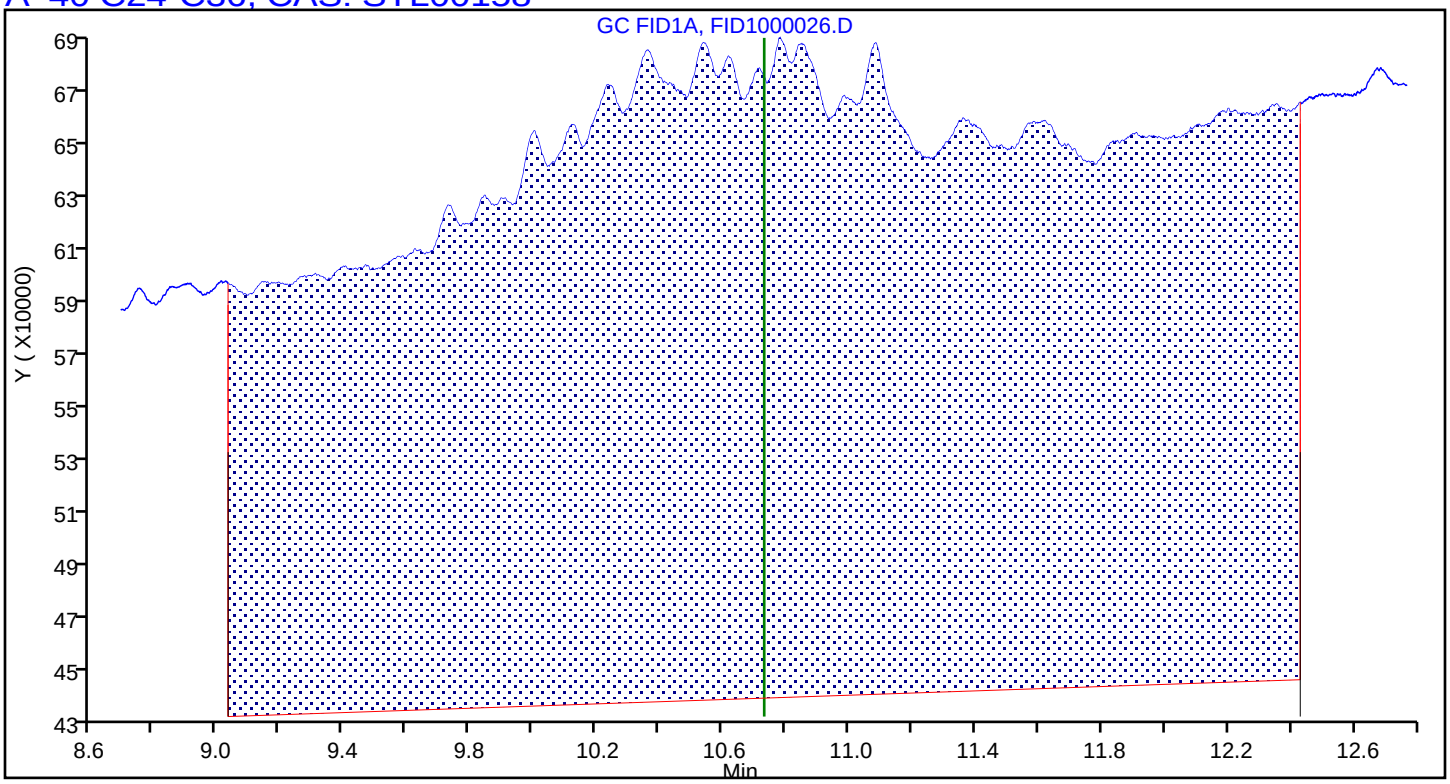


Report Date: 31-Dec-2018 09:54:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000026.D				
Injection Date:	28-Dec-2018 22:36:03	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-22-D	Lab Sample ID:	720-90479-22		
Client ID:	DG-S9S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

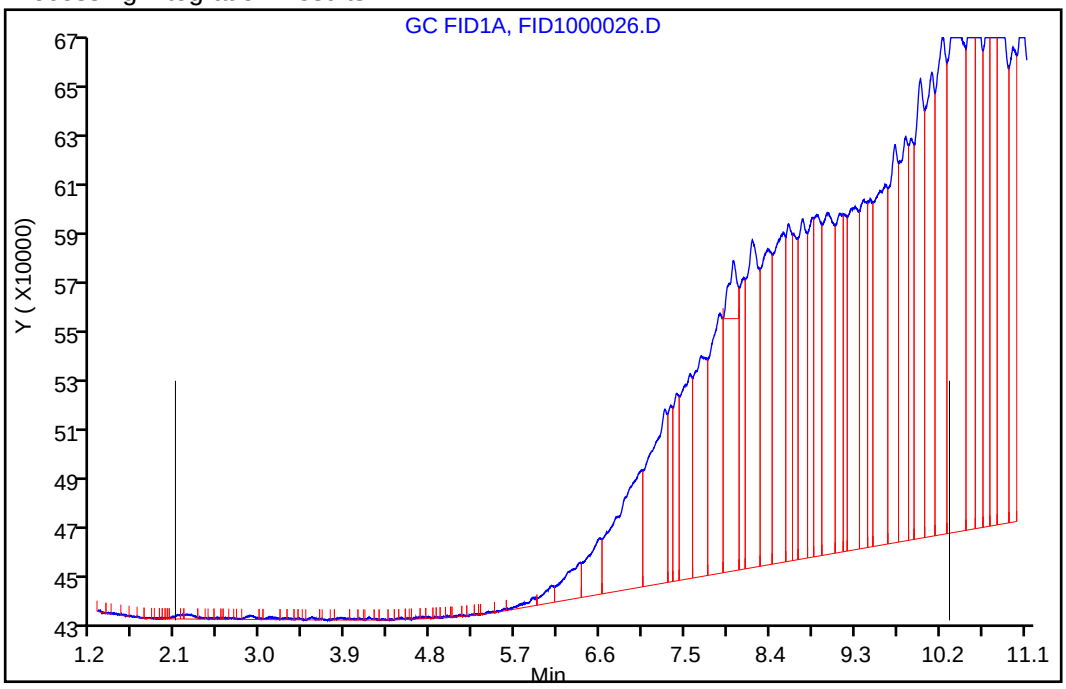
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Injection Date:	28-Dec-2018 22:36:03	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-22-D	Lab Sample ID:	720-90479-22		
Client ID:	DG-S9S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.198, CAS: STL00143

Signal: 1

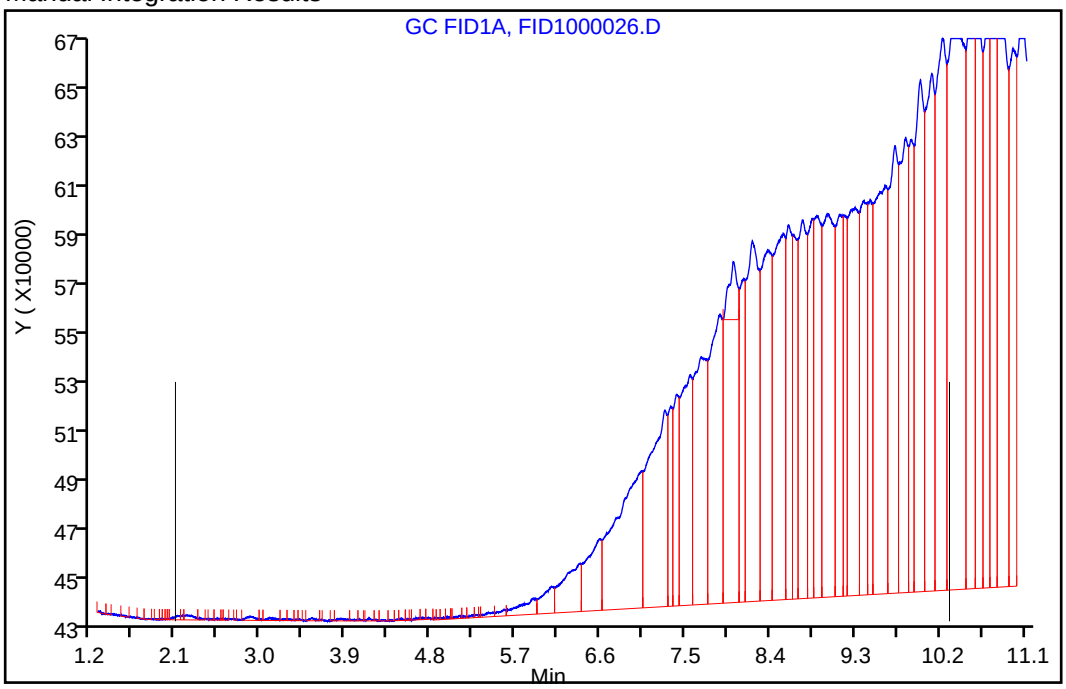
Processing Integration Results

RT: 6.20
Response: 512406439
Amount: 401.6938



Manual Integration Results

RT: 6.20
Response: 588656583
Amount: 461.4690



Reviewer: hayashid, 31-Dec-2018 09:51:15

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

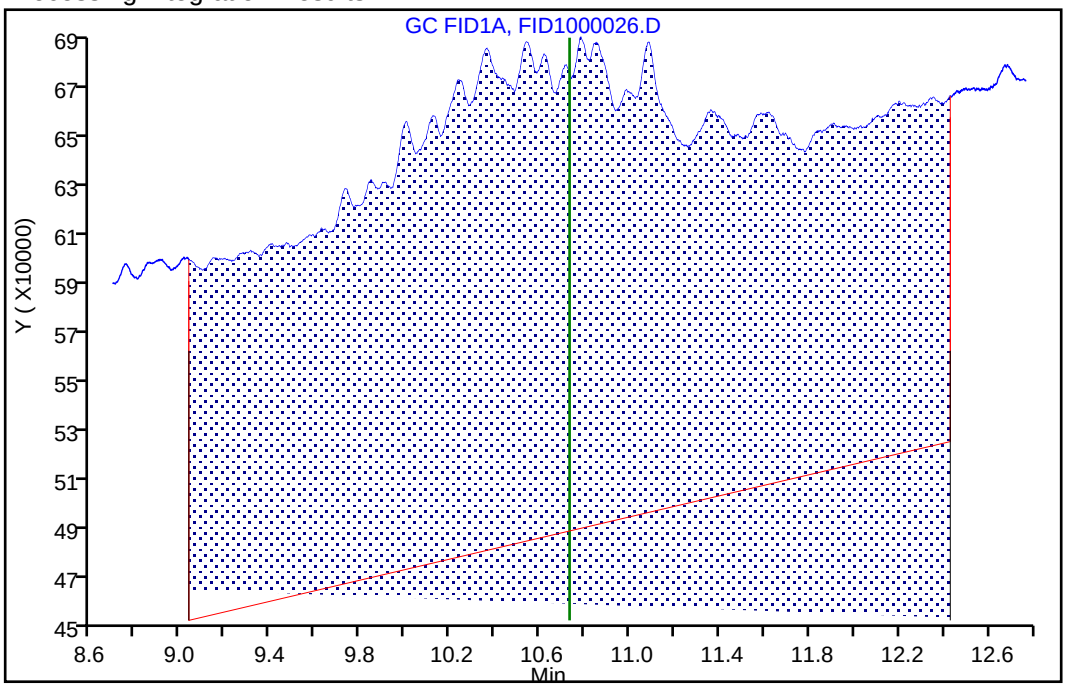
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Injection Date:	28-Dec-2018 22:36:03	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-22-D	Lab Sample ID:	720-90479-22		
Client ID:	DG-S9S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.731, CAS: STL00158

Signal: 1

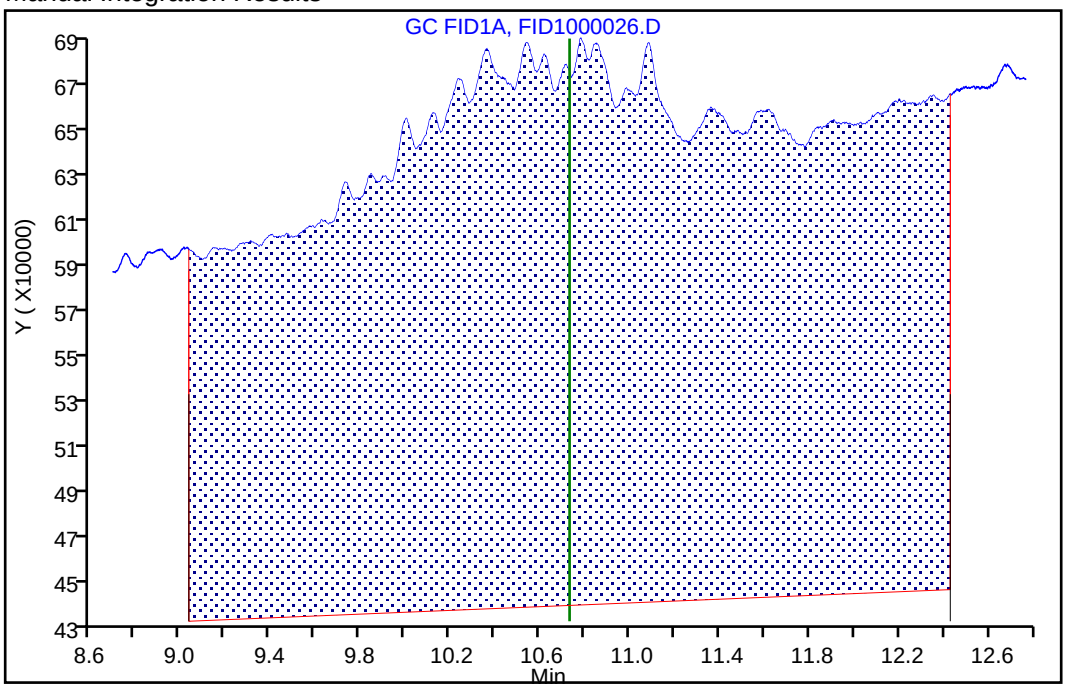
Processing Integration Results

RT: 10.73
Response: 639591709
Amount: 899.7140



Manual Integration Results

RT: 10.73
Response: 809186331
Amount: 1138.2829



Reviewer: hayashid, 31-Dec-2018 09:53:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

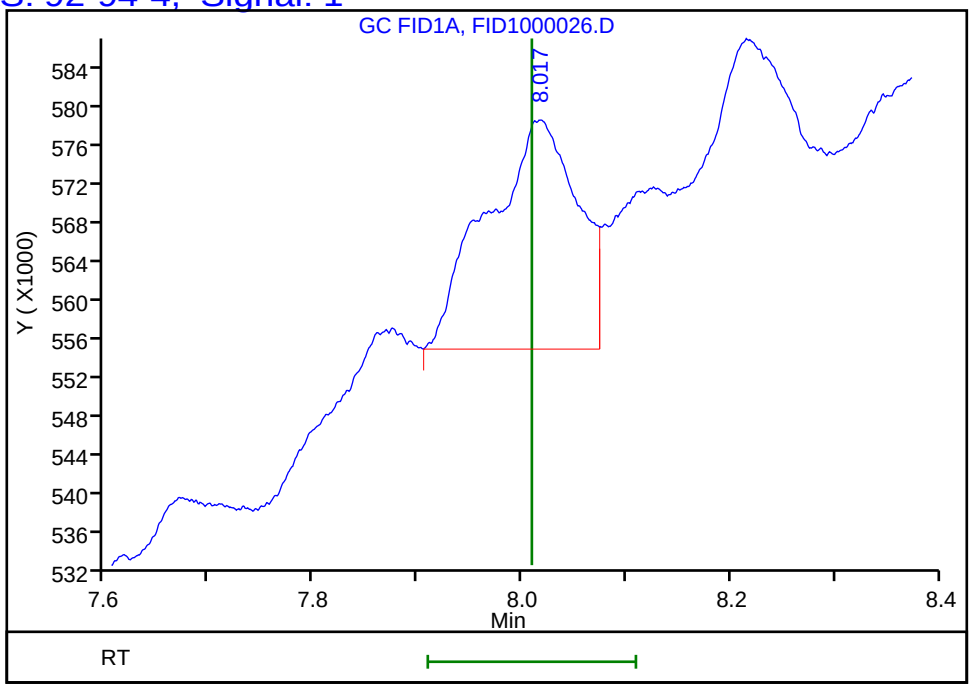
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20181228-55876.b\FID1000026.D				
Injection Date:	28-Dec-2018 22:36:03	Instrument ID:	CHDRO6		
Lims ID:	720-90479-E-22-D	Lab Sample ID:	720-90479-22		
Client ID:	DG-S9S-4.5-5				
Operator ID:	RLU	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.02
Response: 2834253
Amount: 1.976770



Reviewer: hayashid, 31-Dec-2018 09:54:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40608.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - A..., V -, W, Z -, Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	~~8082/8646 Standard 8082 PCB list~~	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instru
			Preservation Code:										
DG-AS3S-0.5-1 (720-90479-1)	12/20/18	08:35 Pacific		Solid			X	X	X			5	4
DG-AS3S-3.5-4 (720-90479-2)	12/20/18	09:00 Pacific		Solid			X	X	X			5	4
DG-AS3S-8-8.5 (720-90479-3)	12/20/18	09:15 Pacific		Solid			X	X	X			5	4
DG-AU3S-0.5-1 (720-90479-4)	12/20/18	09:40 Pacific		Solid			X	X	X			5	4
DG-AU3S-3.5-4 (720-90479-5)	12/20/18	09:50 Pacific		Solid			X	X	X			5	4
DG-AX5S-0.5-1 (720-90479-6)	12/20/18	10:20 Pacific		Solid			X	X	X			5	4
DG-AX5S-3.5-4 (720-90479-7)	12/20/18	10:30 Pacific		Solid			X	X	X			5	4
DG-AV5S-0.5-1 (720-90479-8)	12/20/18	11:10 Pacific		Solid			X	X	X			5	4
DG-AV5S-3.5-4 (720-90479-9)	12/20/18	11:30 Pacific		Solid			X	X	X			4	3

Ref:
Dep:
Sys: PRIORITY OVERNIGHT
TRCK: 4636 0276 6133
Date: 20DEC18
Wgt: 50.00 LBS
DV:
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 100.00 0.00
Hey's the take #

Page 174 of 184

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	12-21-18 940	Ples			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40608.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard ~~8082 PCB list~~	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AV5S-3.5-4 (720-90479-9MS)	12/20/18	11:30 Pacific	MS	Solid			X	X	X			3	
DG-AV5S-3.5-4 (720-90479-9MSD)	12/20/18	11:30 Pacific	MSD	Solid			X	X	X			2	
DG-AV5S-7.5-8 (720-90479-10)	12/20/18	11:45 Pacific		Solid			X	X	X			4	
DUP-35 (720-90479-11)	12/20/18	Pacific		Solid			X	X	X			4	
DG-AT5S-0.5-1 (720-90479-12)	12/20/18	12:50 Pacific		Solid			X	X	X			4	
DG-AT5S-3.5-4 (720-90479-13)	12/20/18	13:05 Pacific		Solid			X	X	X			4	
DUP-18 (720-90479-14)	12/20/18	Pacific		Solid			X	X	X			4	
DG-AR5S-0.5-1 (720-90479-15)	12/20/18	13:55 Pacific		Solid			X	X	X			4	
DG-AR5S-3.5-4 (720-90479-16)	12/20/18	14:05 Pacific		Solid			X	X	X			4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	12-21-18 940	TAL SF			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40608.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AP5S-0.5-1 (720-90479-17)	12/20/18	14:35 Pacific		Solid			X	X	X			5	4
DG-AP5S-3.5-4 (720-90479-18)	12/20/18	14:50 Pacific		Solid			X	X	X			5	4
DG-AN5S-0.5-1 (720-90479-19)	12/20/18	15:15 Pacific		Solid			X	X	X			5	4
DG-AN5S-3.5-4 (720-90479-20)	12/20/18	15:30 Pacific		Solid			X	X	X			5	4
DG-S9S-7 (720-90479-21)	12/20/18	13:40 Pacific		Solid			X	X				4	
DG-S9S-4.5-5 (720-90479-22)	12/20/18	11:30 Pacific		Solid			X	X				4	
TB-122018 (720-90479-23)	12/20/18	Pacific		Water						X	X	2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-21-18 @ 10				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90479

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/2018	COC No 18521
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler N. Hennefild
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90479 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-AS3S-0.5-1	12/20/18	0835	G	S	8	N		X	X	X	X	X	X	X	
2	DG-AS3S-3.5-4		0900													
3	DG-AS3S-8-8.5		0915													
4	DG-AU3S-0.5-1		0940													
5	DG-AU3S-3.5-4		0950													
6	DG-AX5S-0.5-1		1020													
7	DG-AX5S-3.5-4		1030													
8	DG-AV5S-0.5-1		1110			↓										
9	DG-AV5S-3.5-4		1130			11		X								
10	DG-AV5S-7.5-8		1145			8										
11	DUP-35		—													
12	DG-AT5S-0.5-1	↓	1250	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Page 177 of 188

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
1.4, 1.0, 0.5, 3.5
0.8, 1.3, 2.0, 1.1°c

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No ____
Relinquished by: Naomi Hefild, Naomi Hennefild	Company: Geosyntec	Date/Time: 12/20/18 1630	Received by:	Company: TAPCS Date/Time: 12/20/18 1630
Relinquished by:	Company: TAPCS	Date/Time: 12/20/18 1910	Received by:	Company: Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAPLS Date/Time: 12/20/18 1910

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90479

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/2018	COC No 681581
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler N. Hennefeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	HOLD	Sample Specific Notes
12	DG-AT5S-3.5-4	12/20/18	1305	G	S	8	N		X	X	X	X	X	X	X		
13	DUP-18		—														
14	DG-AR5S-0.5-1		1355														
15	DG-AR5S-3.5-4		1405			7											
16	DG-AP5S-0.5-1		1435			8											
17	DG-AP5S-3.5-4		1450														
18	DG-AN5S-0.5-1		1515														
19	DG-AN5S-3.5-4		1530														
20	DG-S9S-7		1340			5											
21	DG-S9S-4.5-5		1130			5										X	HOLD
22	TB-122018		—	—	W	2			X								VOCs only
23																	

12/20/18

Page 178 of 184

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by: Naomi Hennefeld	Company: Geosyntec	Date/Time: 12/20/18 1630	Received by:	Company: TAL PLS	Date/Time: 12/20/18 1630
Relinquished by	Company: TAL PLS	Date/Time: 12/20/18 1910	Received by	Company:	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TAL PLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

720-90479
THUR Texas Cores

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
463602766133

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Dec 20, 2018 4:58:20 PM

720-90479-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90479

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/2018	COC No: 16551
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: N. Hennefeld
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90479 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1	DG-AS3S-0.5-1	12/20/18	0835	G	S	8	N		X	X	X	X	X	X	X	
2	DG-AS3S-3.5-4		0900													
3	DG-AS3S-8-8.5		0915													
4	DG-AU3S-0.5-1		0940													
5	DG-AU3S-3.5-4		0950													
6	DG-AX5S-0.5-1		1020													
7	DG-AX5S-3.5-4		1030													
8	DG-AV5S-0.5-1		1110			↓										
9	DG-AV5S-3.5-4		1130			11	X									
10	DG-AV5S-7.5-8		1145			8										
11	DUP-35		—													
12	DG-AT5S-0.5-1	↓	1150	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

720-90479 Chain of Custody

Encores or Terracores Frozen
Date: 12/21/18 Time: 10:30 Initials: SA

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
1.4, 1.0, 0.5, 3.5
0.8, 1.3, 2.0, 1.1°c

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by: Naomi Hefel Naomi Hennefield	Company: Geosyntec	Date/Time: 12/20/18 1630	Received by:	Company: TAPLS	Date/Time: 12/20/18 1630
Relinquished by:	Company: TAPLS	Date/Time: 12/20/18 1910	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAPLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

tracking # 463602766133

12/21/18
TA-JRV 10:00am

3.8/4.0 JR08

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

72D-90479

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 12/20/2018	COC No: 681381
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: N. Hennefeld
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchan@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	HOLD	Sample Specific Notes.
12/20/18																	
12	DG-ATSS-3.5-4	12/20/18	1305	G	S	8	N		X	X	X	X	X	X	X		
13	DUP-18		—														
14	DG-AR5S-0.5-1		1355														
15	DG-ARSS-3.5-4		1405			7											
16	DG-APSS-0.5-1		1435			8											
17	DG-APSS-3.5-4		1450														
18	DG-ANSS-0.5-1		1515														
19	DG-ANSS-3.5-4		1530														
20	DG-S9S-7		1340			5											
21	DG-S9S-4.5-5		1130			5										X	HOLD
22	TB-122018		—	—	W	2			X								VOCs only
23																	
24	12/20/18																(NH)

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by: Naomi Hennefeld	Company: Geosyntec	Date/Time: 12/20/18 1630	Received by:	Company: TAPLS	Date/Time: 12/20/18 1630
Relinquished by:	Company: TAPLS	Date/Time: 12/20/18 1910	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time	Received in Laboratory by	Company: TAPLS	Date/Time: 12/20/18 1910

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0231	COC No: 720-40608.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA, 92614-5817				
Phone 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	8260B_LL/5030A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5030A_F_FW 8260-C6-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-AS3S-0.5-1 (720-90479-1)	12/20/18	08:35 Pacific		Solid		X	X	X			1	
DG-AS3S-3.5-4 (720-90479-2)	12/20/18	09:00 Pacific		Solid		X	X	X			1	
DG-AS3S-8-8.5 (720-90479-3)	12/20/18	09:15 Pacific		Solid		X	X	X			1	
DG-AU3S-0.5-1 (720-90479-4)	12/20/18	09:40 Pacific		Solid		X	X	X			1	
DG-AU3S-3.5-4 (720-90479-5)	12/20/18	09:50 Pacific		Solid		X	X	X			1	
DG-AX5S-0.5-1 (720-90479-6)	12/20/18	10:20 Pacific		Solid		X	X	X			1	
DG-AX5S-3.5-4 (720-90479-7)	12/20/18	10:30 Pacific		Solid		X	X	X			1	
DG-AV5S-0.5-1 (720-90479-8)	12/20/18	11:10 Pacific		Solid		X	X	X			1	
DG-AV5S-3.5-4 (720-90479-9)	12/20/18	11:30 Pacific		Solid		X	X	X			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 12/21/18 1418	Company TAPCS	Received by:	Date/Time: 12.22.18 1100	Company TA IRV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: .9/.9 IR89

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0231	COC No: 720-40608.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW/8260 (MOD) VOCs + ORG	8260B/CA_LUFTMS/5035A_F_FW/8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AV5S-3.5-4 (720-90479-9MS)	12/20/18	11:30 Pacific	MS	Solid			X	X	X			2	D
DG-AV5S-3.5-4 (720-90479-9MSD)	12/20/18	11:30 Pacific	MSD	Solid			X	X	X			2	D
DG-AV5S-7.5-8 (720-90479-10)	12/20/18	11:45 Pacific		Solid			X	X	X			2	1
DUP-35 (720-90479-11)	12/20/18	Pacific		Solid			X	X	X			2	1
DG-AT5S-0.5-1 (720-90479-12)	12/20/18	12:50 Pacific		Solid			X	X	X			2	1
DG-AT5S-3.5-4 (720-90479-13)	12/20/18	13:05 Pacific		Solid			X	X	X			2	1
DUP-18 (720-90479-14)	12/20/18	Pacific		Solid			X	X	X			2	1
DG-AR5S-0.5-1 (720-90479-15)	12/20/18	13:55 Pacific		Solid			X	X	X			2	1
DG-AR5S-3.5-4 (720-90479-16)	12/20/18	14:05 Pacific		Solid			X	X	X			2	1

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time: 12/21/18 1419	Company: TAPL	Received by:	Date/Time: 12.22.18 1100	Company: TA IRV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: ✓ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9/2.9 1289

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0231	COC No: 720-40608.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90479-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/3/2019	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B_8260_(MOD)_VOCs_+_GRO	8260B/CA_LUFTMS/5030B_8260_C4-C12_Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B_8260_(MOD)_VOCs	8260B/CA_LUFTMS/5030B_8260_C4-C12_Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AP5S-0.5-1 (720-90479-17)	12/20/18	14:35 Pacific		Solid			X	X	X			3	1
DG-AP5S-3.5-4 (720-90479-18)	12/20/18	14:50 Pacific		Solid			X	X	X			3	1
DG-AN5S-0.5-1 (720-90479-19)	12/20/18	15:15 Pacific		Solid			X	X	X			3	1
DG-AN5S-3.5-4 (720-90479-20)	12/20/18	15:30 Pacific		Solid			X	X	X			3	1
DG-S9S-7 (720-90479-21)	12/20/18	13:40 Pacific		Solid			X	X				2	
DG-S9S-4.5-5 (720-90479-22)	12/20/18	11:30 Pacific		Solid			X	X				2	
TB-122018 (720-90479-23)	12/20/18	Pacific		Water						X	X	2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/21/18 1449	Company: TAPLS	Received by: Date/Time: 12.22.18 1100 Company: TA IRV
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by	Date/Time:	Company	Received by: Date/Time Company

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: 0.9 / 0.9 IR89

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-90626-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/31/2019 11:42 AM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/31/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90626-1

Comments
No additional comments.

Receipt
The samples were received on 1/7/2019 5:37 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.3º C, 1.0º C, 1.3º C and 2.2º C.

Receipt Exceptions

Received only 1 x 40m HCl vial for VOC and GRO for both the TB 01072019 (Trip Blank) and the FB 01072019 (Field Blank).

GC/MS VOA
Method 8260B/CA_LUFTMS: The method blank for 440-523582 contained C4-C12 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B/CA_LUFTMS: The following volatile sample was analyzed with significant headspace in the sample container(s) due to multiple runs: FB-01.07.2019 (720-90626-10). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B/CA_LUFTMS: The following volatile sample was analyzed with significant headspace in the sample container(s): DG-AJ5W (720-90626-1). Head space possibly generated from the sediments contained in the VOA after receipt. Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was 4 and the following samples were analyzed after 7 days from sampling: DG-AJ5W (720-90626-1), (720-90626-C-1 MS) and (720-90626-C-1 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the nature of the sample matrix: DG-T5W (720-90626-8). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-T5W (720-90626-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: Internal standard (ISTD) response for the following sample was outside control limits: DG-V5W (720-90626-7). The sample(s) was re-analyzed with concurring results, and the the most recent set of data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-521594 and analytical batch 440-521627. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-521594/2-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The serial dilution performed for the following sample associated with batch 720-258246 was outside control limits for Arsenic-28%, Barium-21%, Cobalt-30%, Chromium-31%, Copper-28%, Nickle-27%, Lead-28%, Vandadium-27%, and Zinc-28%: (720-90626-I-1-C SD)

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258147 and analytical batch 720-258246 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Water sample contained excessive solid material, the 1-liter amber unpreserved sample container for 8015B analysis had approximately 1 inch of sediment on the bottom of the bottle. Only the water portion was extracted. The sediment layer remained in the sample bottle and therefor the sample bottle could not be solvent rinsed.

DG-AJ5W (720-90626-1), DG-AH5W (720-90626-2), DG-AF5W (720-90626-3), DG-Z5W (720-90626-5), DG-X5W (720-90626-6), DG-V5W (720-90626-7) and DG-T5W (720-90626-8)

Method 3510C: Insufficient sample volume was provided for the following samples for the 3510C 8015B analysis DG-AJ5W (720-90626-1) and DG-AF5W (720-90626-3).

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 3510C 8015B preparation batch 440-521594.

Method 3520C: Due to the matrix, the following sample could not be concentrated to the final method required volume: DG-AJ5W (720-90626-1). The reporting limits (RLs) are elevated proportionately. 8270 SIM PAH

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-521463. LCS was performed in duplicate to provide precision of data. 8270 SIM PAH

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b019.d				
Lims ID:	720-90626-F-1-A				
Client ID:	DG-AJ5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 13:43:05	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 14:00:17	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				
First Level Reviewer: doanm		Date:	10-Jan-2019 14:00:17		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.658	(1.975-7.342)		264986	213.9	
$ 128 n-Octacosane	7.248	7.247	0.001	163300	136.6	
A 139 C24-C36	7.701	(6.038-9.363)		119934	82.4	

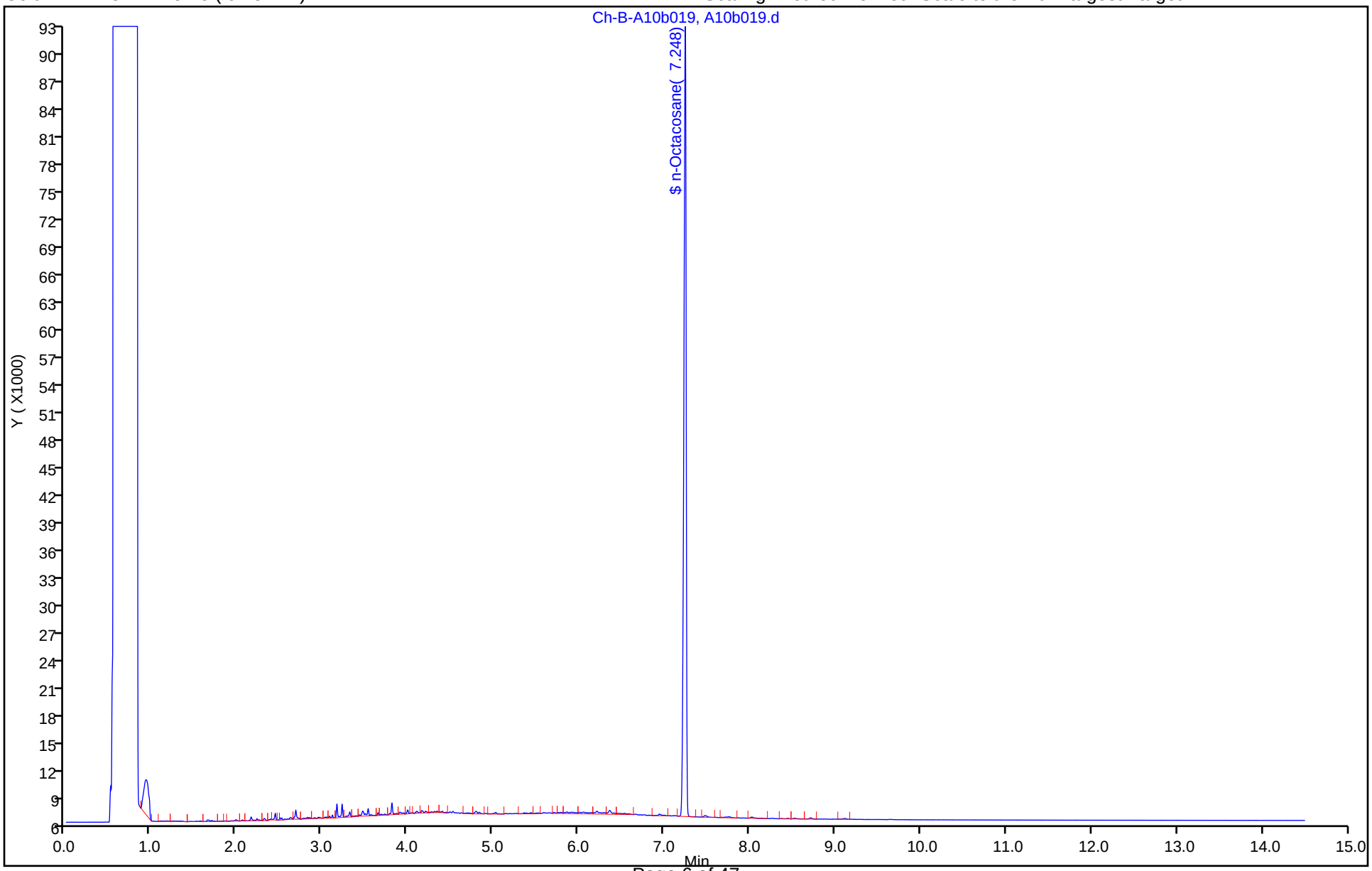
Report Date: 10-Jan-2019 14:00:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b019.d

Injection Date:	10-Jan-2019 13:43:05	Instrument ID:	GC69B	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90626-F-1-A	Lab Sample ID:	440-90626-1	Worklist Smp#:	19
Client ID:	DG-AJ5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b019.d				
Lims ID:	720-90626-F-1-A				
Client ID:	DG-AJ5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 13:43:05	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 14:00:17	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				

First Level Reviewer: doanm Date: 10-Jan-2019 14:00:17

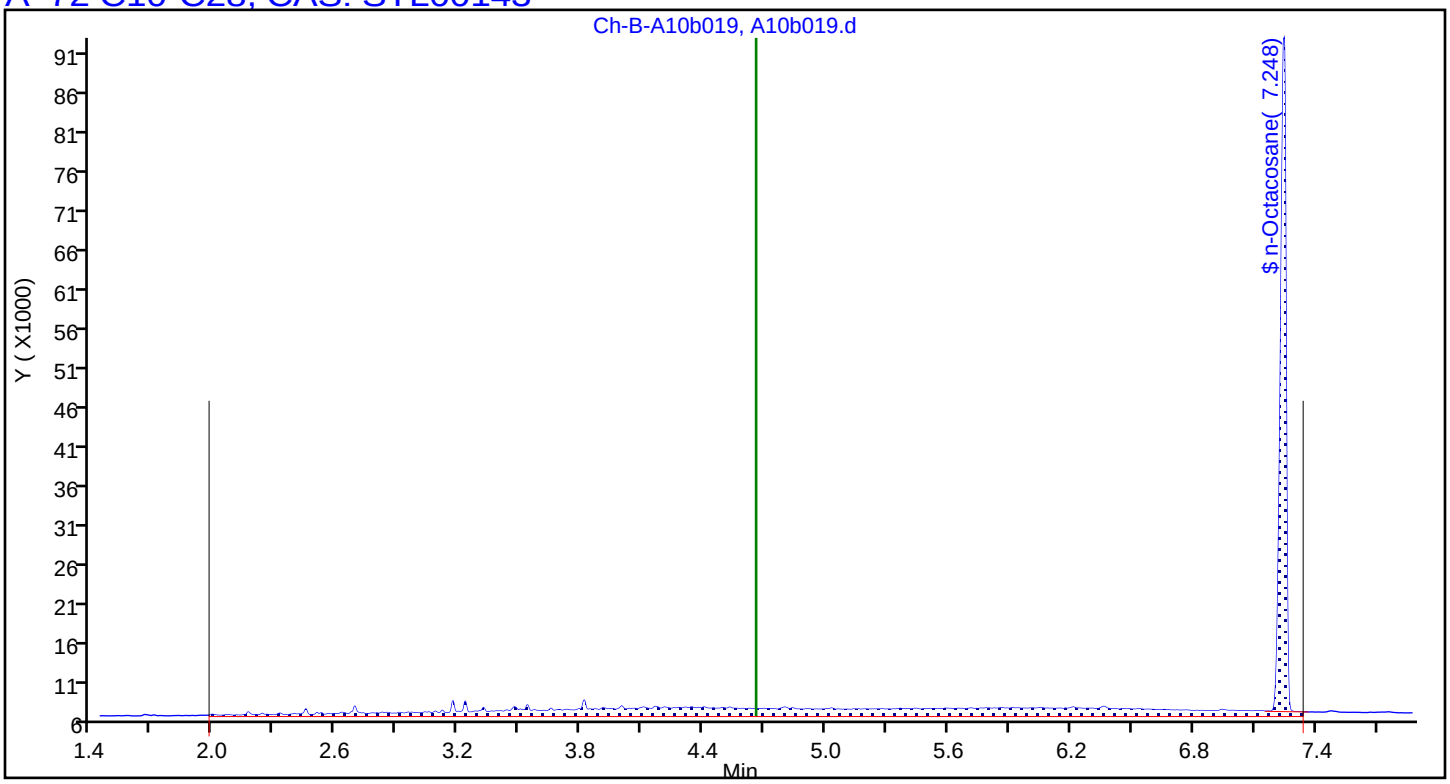
Compound	Amount Added	Amount Recovered	% Rec.
$ 6 n-Triacontane-d62	0.0	0	0.00
$ 128 n-Octacosane	200.0	136.6	68.28

Report Date: 10-Jan-2019 14:00:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b019.d				
Injection Date:	10-Jan-2019 13:43:05	Instrument ID:	GC69B		
Lims ID:	720-90626-F-1-A	Lab Sample ID:	440-90626-1		
Client ID:	DG-AJ5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

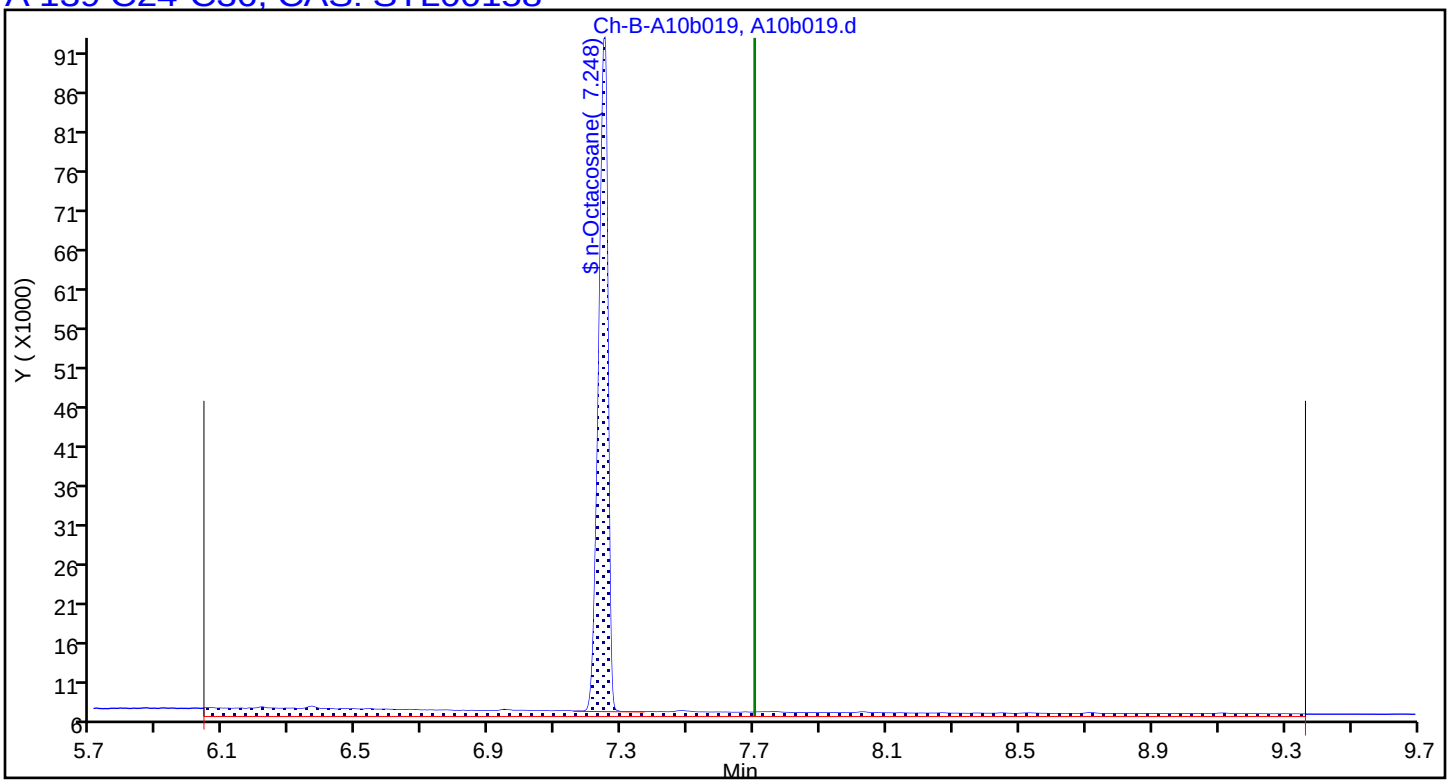


Report Date: 10-Jan-2019 14:00:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b019.d				
Injection Date:	10-Jan-2019 13:43:05	Instrument ID:	GC69B		
Lims ID:	720-90626-F-1-A	Lab Sample ID:	440-90626-1		
Client ID:	DG-AJ5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 139 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b020.d				
Lims ID:	720-90626-F-2-A				
Client ID:	DG-AH5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 14:03:48	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 14:22:25	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				
First Level Reviewer: doanm		Date:	10-Jan-2019 14:22:25		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.658	(1.975-7.342)		107574	71.2	
$ 128 n-Octacosane	7.245	7.247	-0.002	158022	132.3	
A 139 C24-C36	7.701	(6.038-9.363)		103651	67.6	

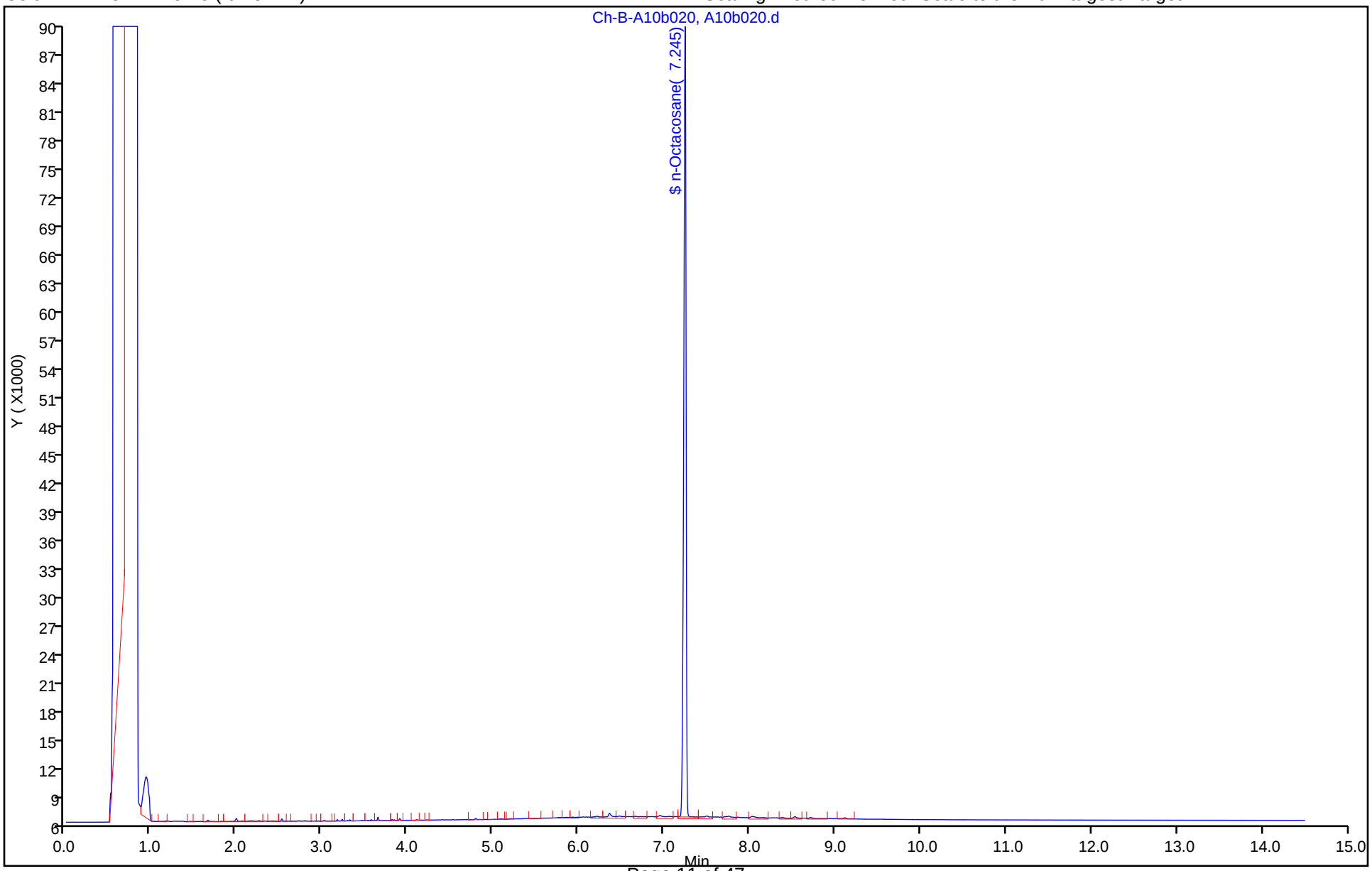
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b020.d

Injection Date:	10-Jan-2019 14:03:48	Instrument ID:	GC69B	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90626-F-2-A	Lab Sample ID:	440-90626-2	Worklist Smp#:	20
Client ID:	DG-AH5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b020.d				
Lims ID:	720-90626-F-2-A				
Client ID:	DG-AH5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 14:03:48	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 14:22:25	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				

First Level Reviewer: doanm Date: 10-Jan-2019 14:22:25

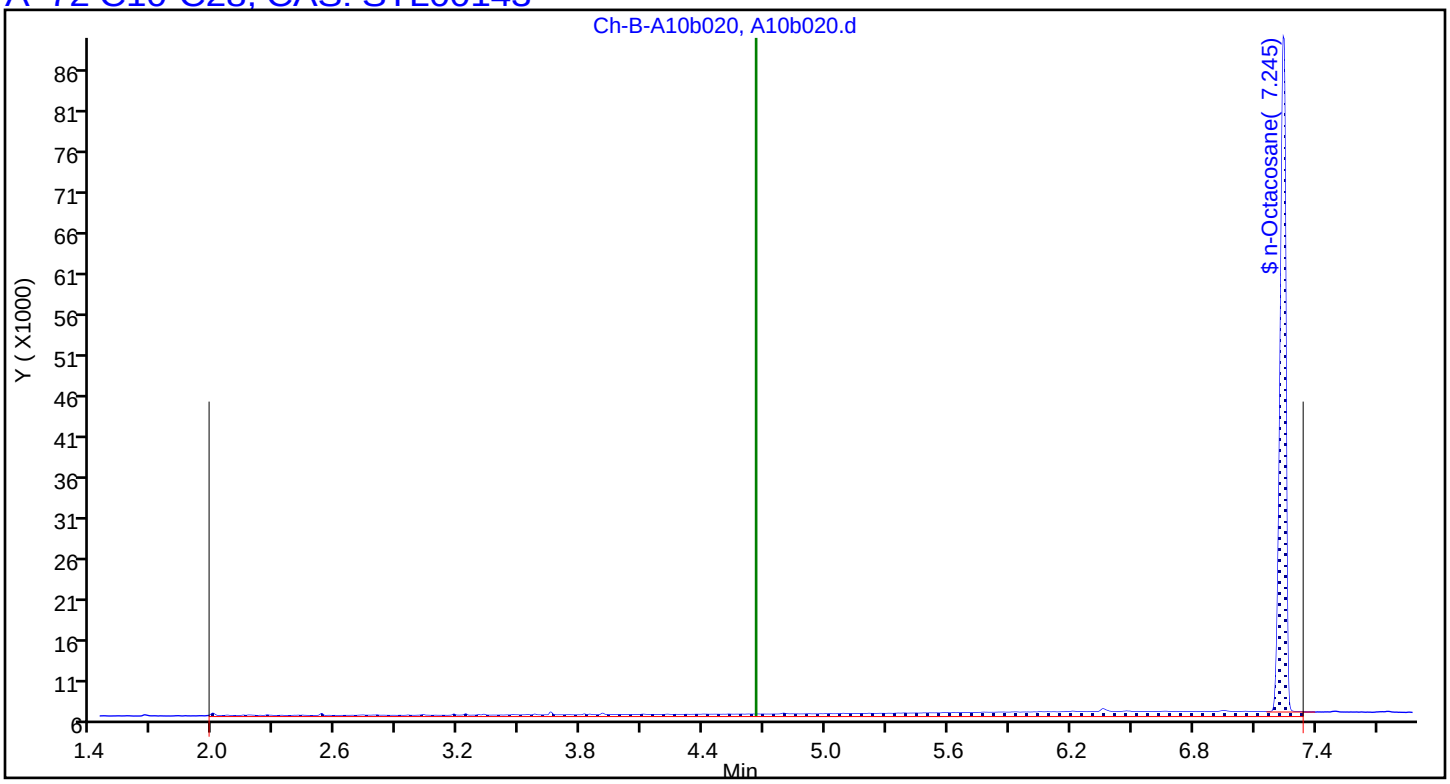
Compound	Amount Added	Amount Recovered	% Rec.
$ 6 n-Triacontane-d62	0.0	0	0.00
$ 128 n-Octacosane	200.0	132.3	66.13

Report Date: 10-Jan-2019 14:22:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b020.d				
Injection Date:	10-Jan-2019 14:03:48	Instrument ID:	GC69B		
Lims ID:	720-90626-F-2-A	Lab Sample ID:	440-90626-2		
Client ID:	DG-AH5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

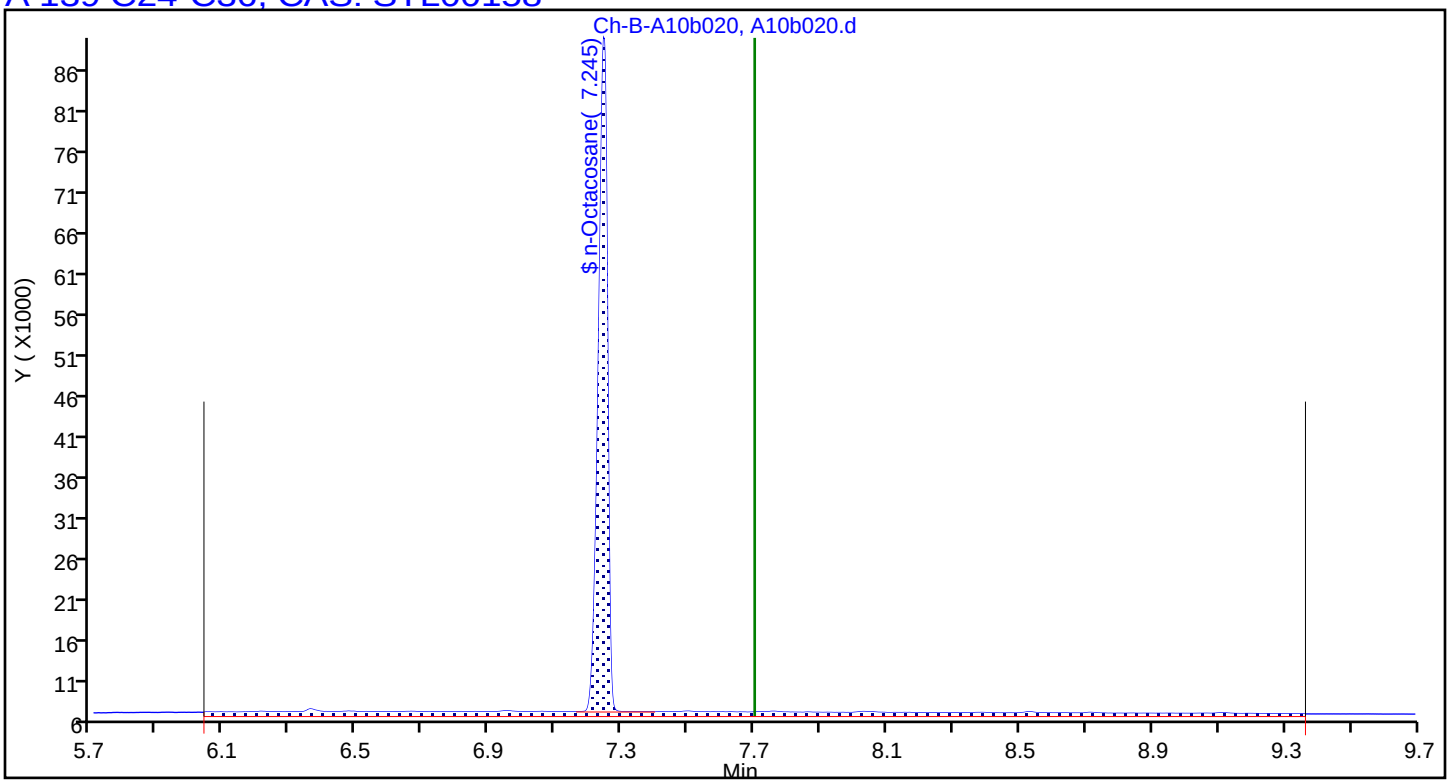


Report Date: 10-Jan-2019 14:22:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b020.d				
Injection Date:	10-Jan-2019 14:03:48	Instrument ID:	GC69B		
Lims ID:	720-90626-F-2-A	Lab Sample ID:	440-90626-2		
Client ID:	DG-AH5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 139 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b021.d				
Lims ID:	720-90626-F-3-A				
Client ID:	DG-AF5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 14:24:38	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 14:43:24	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				
First Level Reviewer: doanm		Date:	10-Jan-2019 14:43:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.658	(1.975-7.342)		154356	113.6	
$ 128 n-Octacosane	7.247	7.247	0.000	161591	135.2	
A 139 C24-C36	7.701	(6.038-9.363)		120279	82.7	

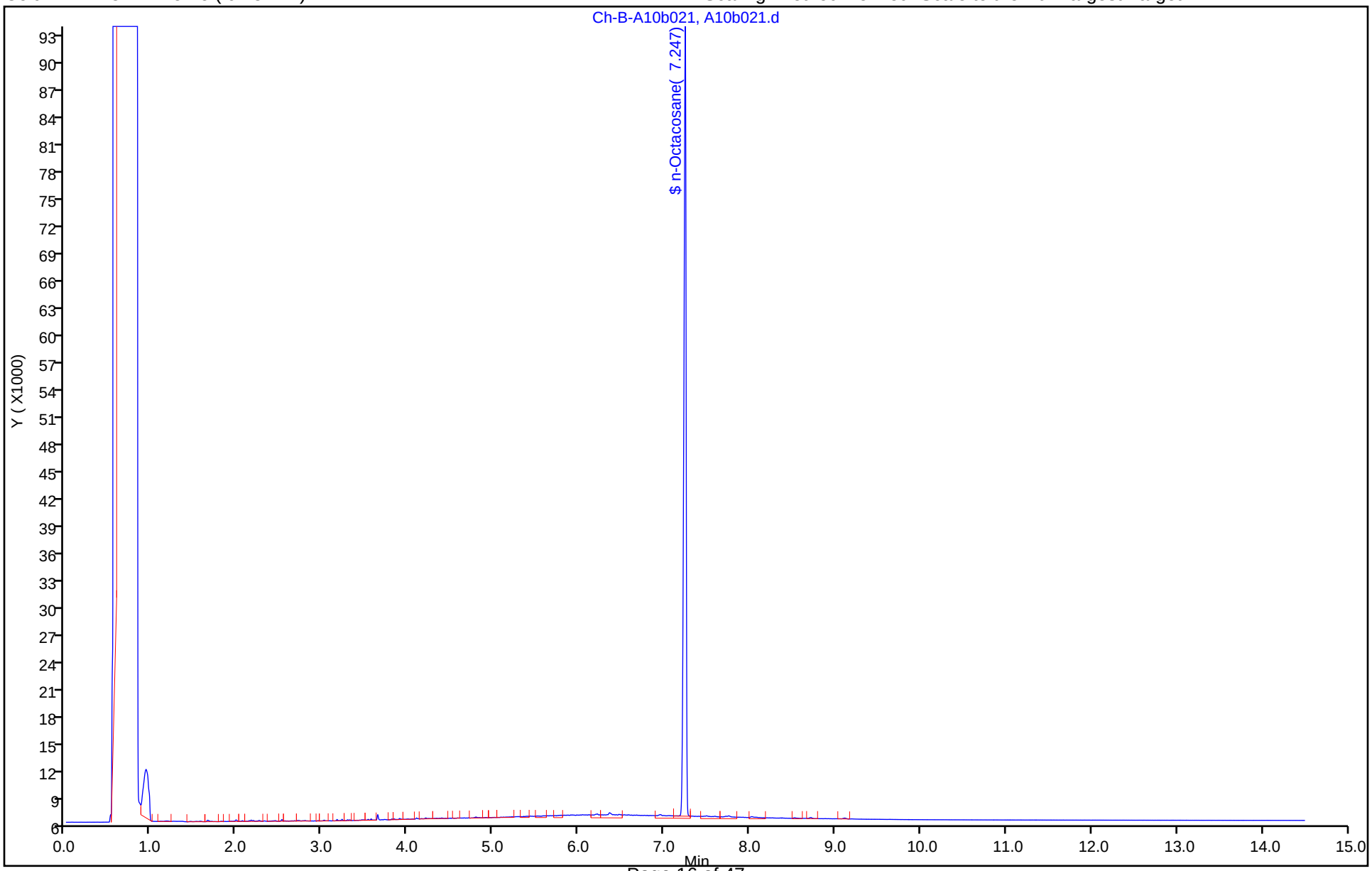
Report Date: 10-Jan-2019 14:43:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b021.d

Injection Date:	10-Jan-2019 14:24:38	Instrument ID:	GC69B	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90626-F-3-A	Lab Sample ID:	440-90626-3	Worklist Smp#:	21
Client ID:	DG-AF5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b021.d				
Lims ID:	720-90626-F-3-A				
Client ID:	DG-AF5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 14:24:38	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 14:43:24	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				

First Level Reviewer: doanm Date: 10-Jan-2019 14:43:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 n-Triacontane-d62	0.0	0	0.00
$ 128 n-Octacosane	200.0	135.2	67.58

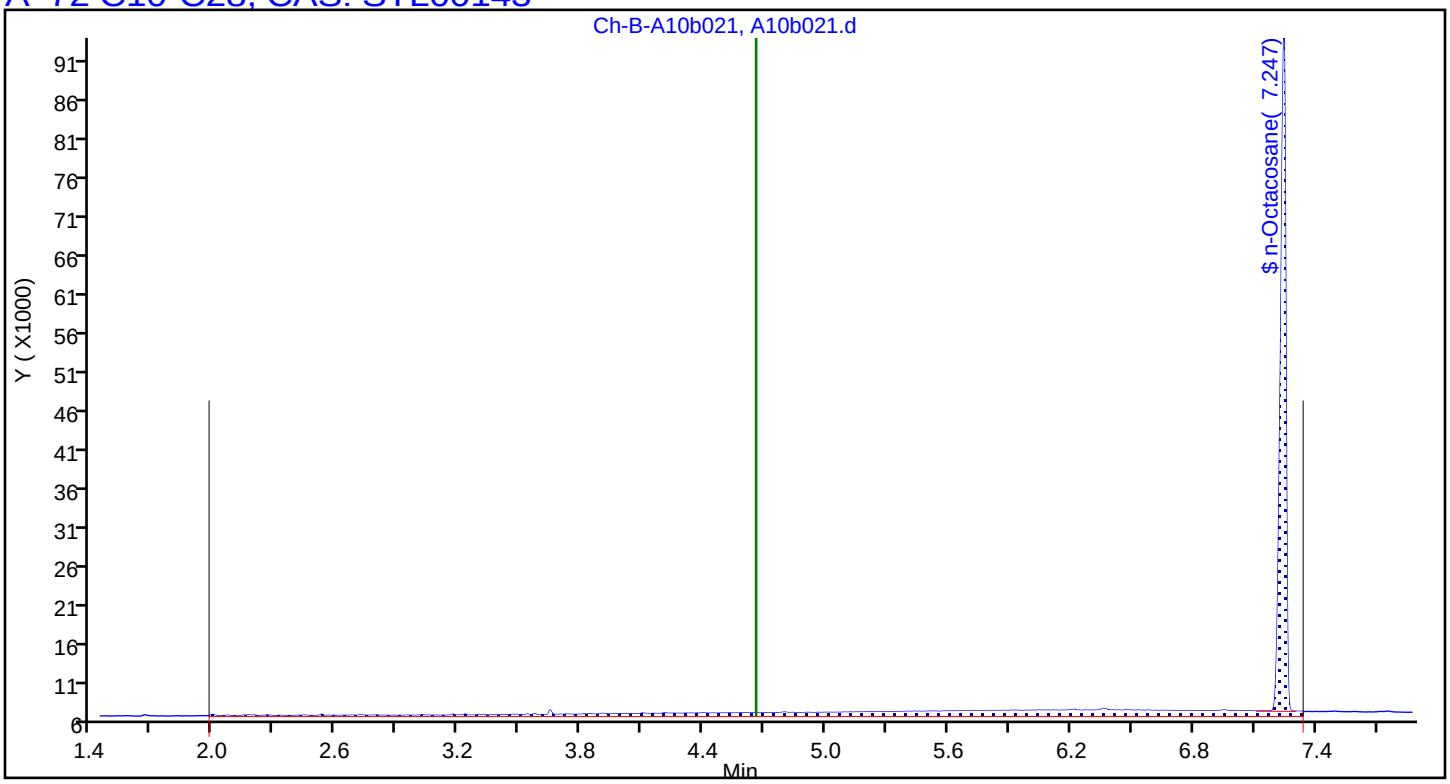
Report Date: 10-Jan-2019 14:43:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b021.d

Injection Date:	10-Jan-2019 14:24:38	Instrument ID:	GC69B		
Lims ID:	720-90626-F-3-A	Lab Sample ID:	440-90626-3		
Client ID:	DG-AF5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

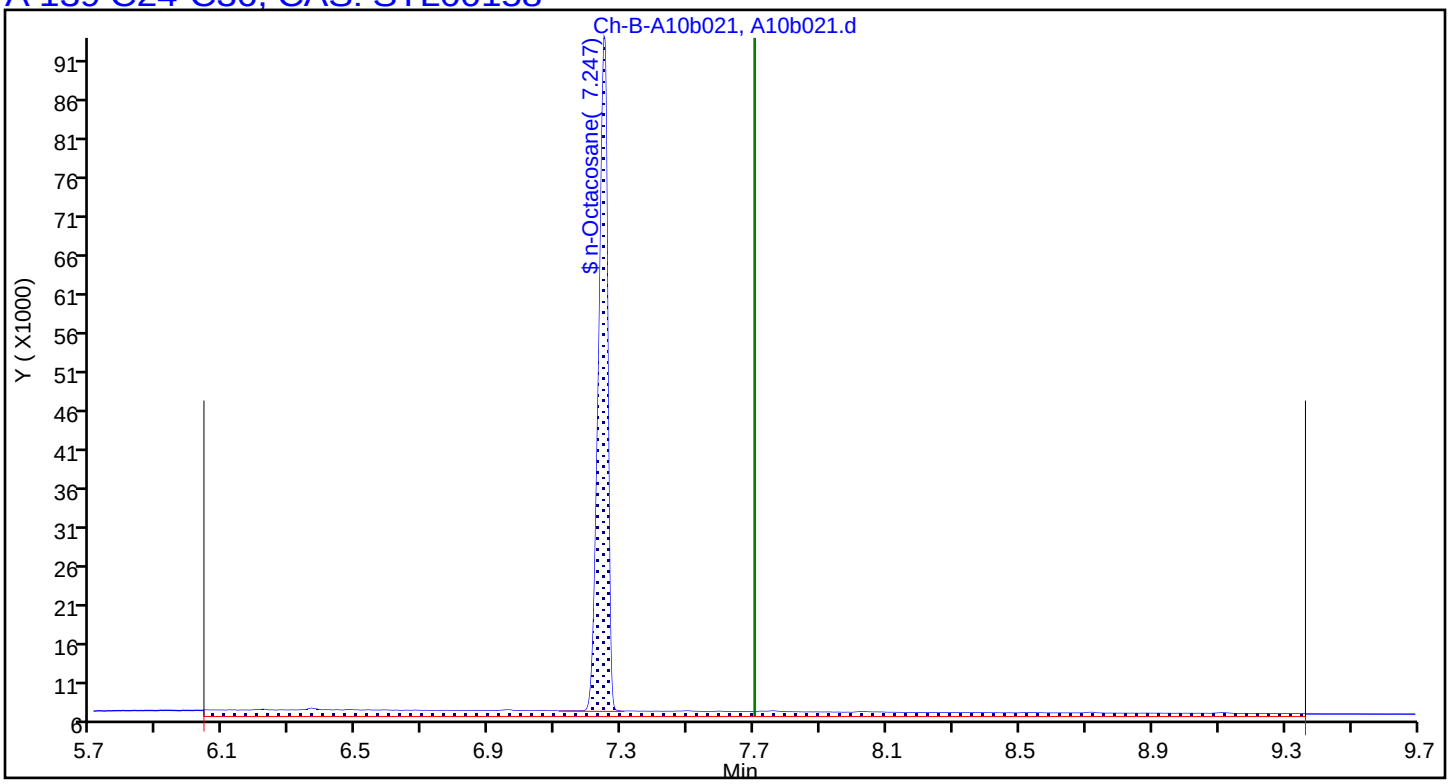


Report Date: 10-Jan-2019 14:43:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b021.d				
Injection Date:	10-Jan-2019 14:24:38	Instrument ID:	GC69B		
Lims ID:	720-90626-F-3-A	Lab Sample ID:	440-90626-3		
Client ID:	DG-AF5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 139 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b022.d				
Lims ID:	720-90626-F-4-A				
Client ID:	DG-AD5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 14:45:34	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 15:08:30	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				
First Level Reviewer: doanm		Date:	10-Jan-2019 15:08:30		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.658	(1.975-7.342)		166398	124.5	
$ 128 n-Octacosane	7.245	7.247	-0.002	141190	118.5	
A 139 C24-C36	7.701	(6.038-9.363)		166825	124.9	

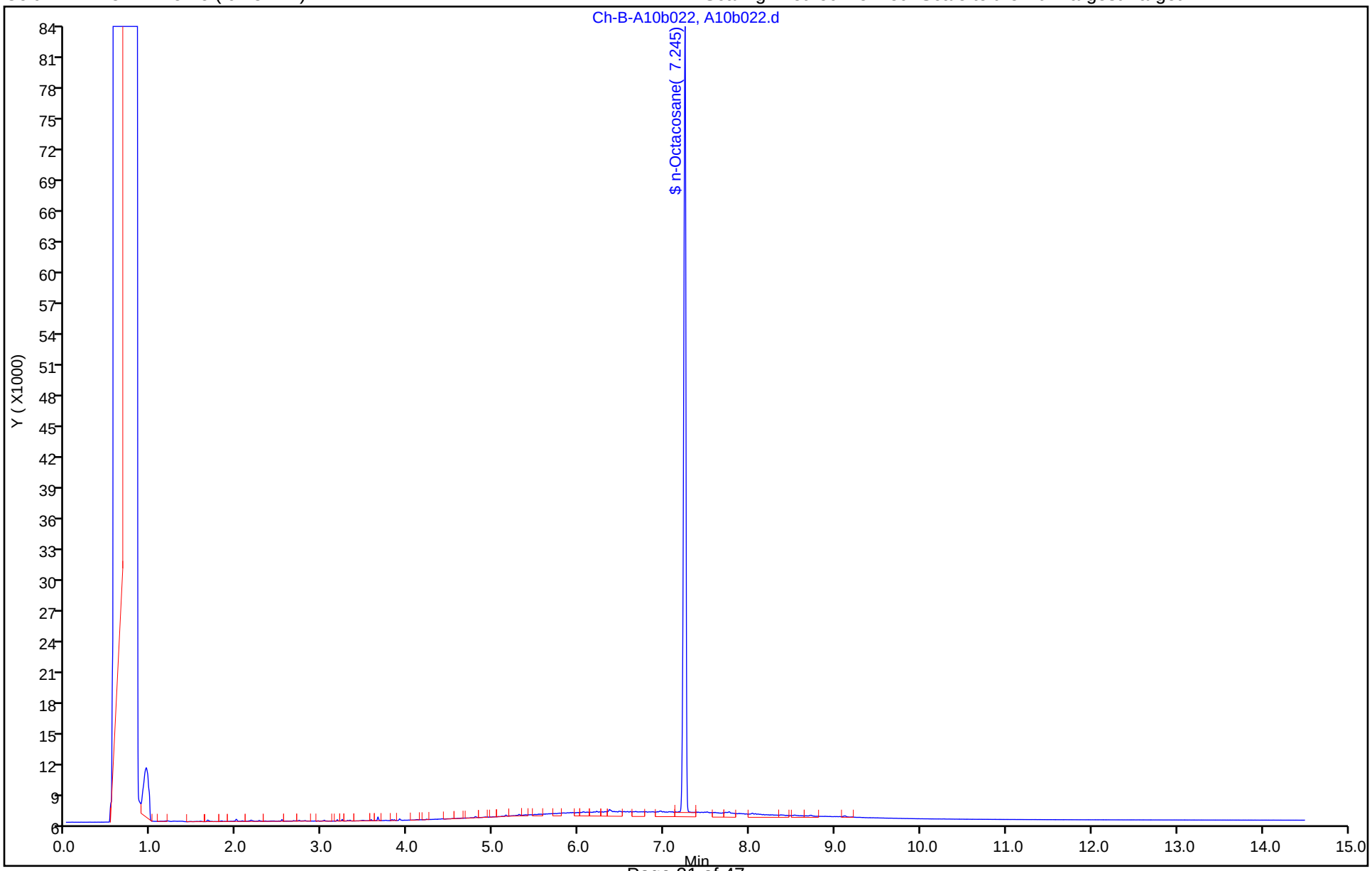
Report Date: 10-Jan-2019 15:08:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b022.d

Injection Date:	10-Jan-2019 14:45:34	Instrument ID:	GC69B	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90626-F-4-A	Lab Sample ID:	440-90626-4	Worklist Smp#:	22
Client ID:	DG-AD5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b022.d				
Lims ID:	720-90626-F-4-A				
Client ID:	DG-AD5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 14:45:34	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 15:08:30	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				

First Level Reviewer: doanm Date: 10-Jan-2019 15:08:30

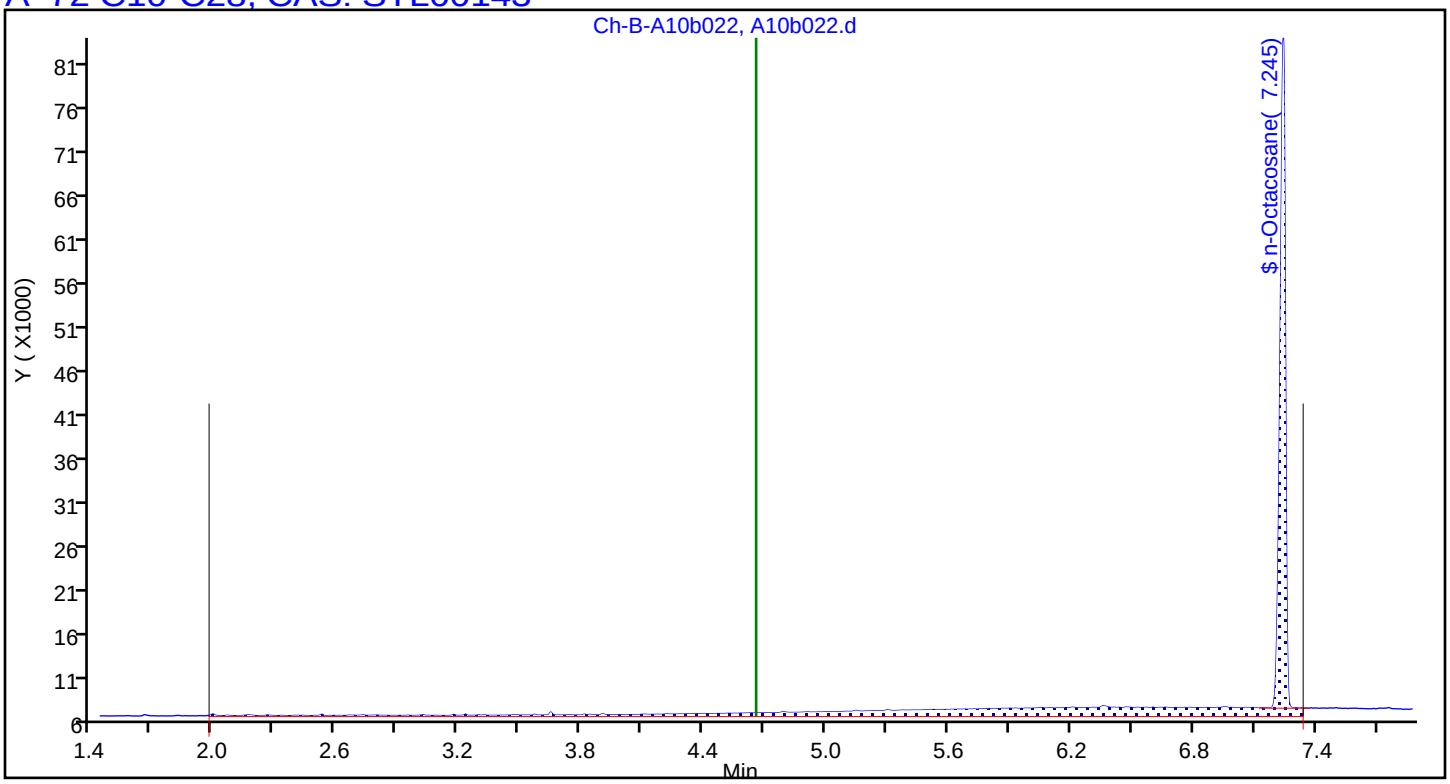
Compound	Amount Added	Amount Recovered	% Rec.
$ 6 n-Triacontane-d62	0.0	0	0.00
$ 128 n-Octacosane	200.0	118.5	59.27

Report Date: 10-Jan-2019 15:08:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b022.d				
Injection Date:	10-Jan-2019 14:45:34	Instrument ID:	GC69B		
Lims ID:	720-90626-F-4-A	Lab Sample ID:	440-90626-4		
Client ID:	DG-AD5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

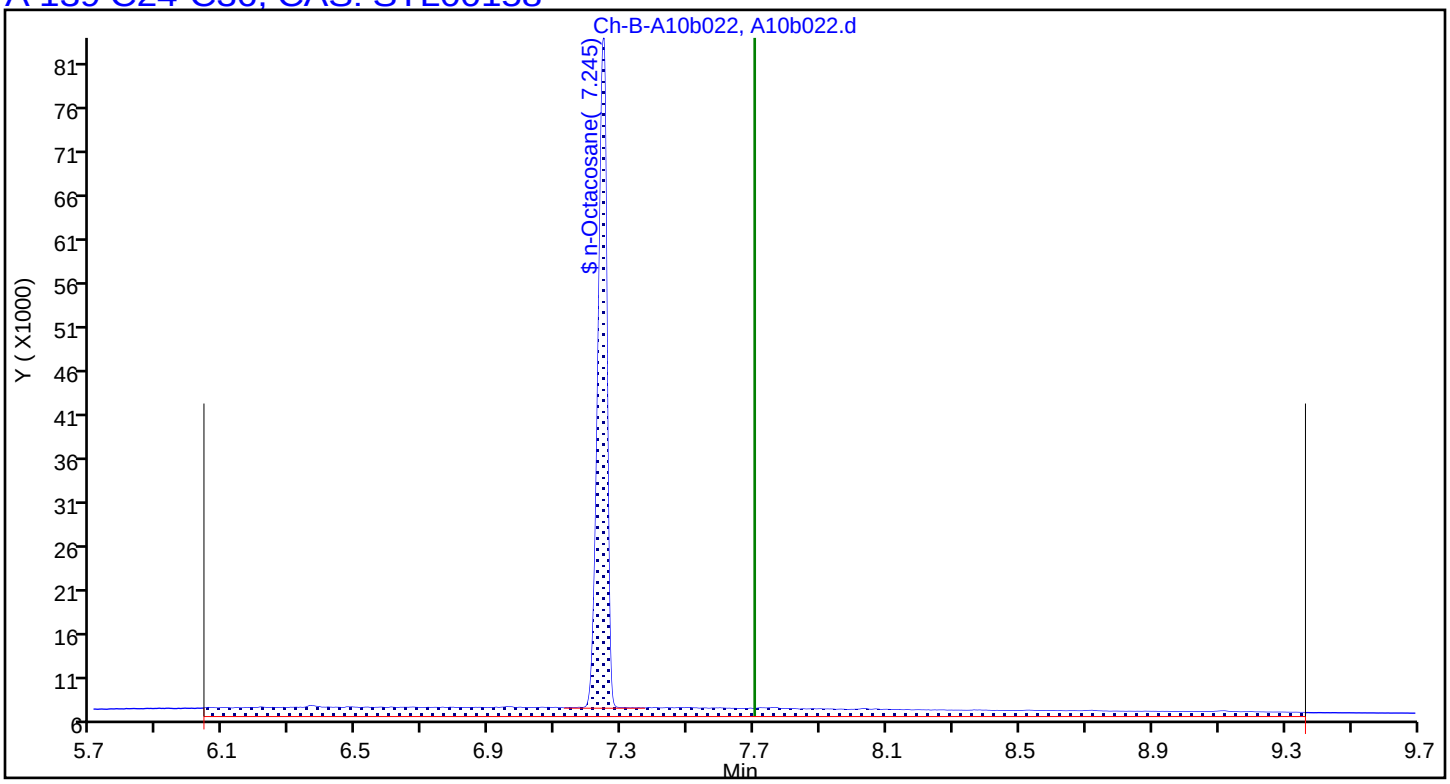


Report Date: 10-Jan-2019 15:08:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b022.d				
Injection Date:	10-Jan-2019 14:45:34	Instrument ID:	GC69B		
Lims ID:	720-90626-F-4-A	Lab Sample ID:	440-90626-4		
Client ID:	DG-AD5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 139 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b023.d				
Lims ID:	720-90626-F-5-A				
Client ID:	DG-Z5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 15:06:14	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 15:27:14	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				
First Level Reviewer: doanm		Date:	10-Jan-2019 15:27:14		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.658	(1.975-7.342)		116546	79.3	
$ 128 n-Octacosane	7.248	7.247	0.001	166887	139.5	
A 139 C24-C36	7.701	(6.038-9.363)		85117	50.8	

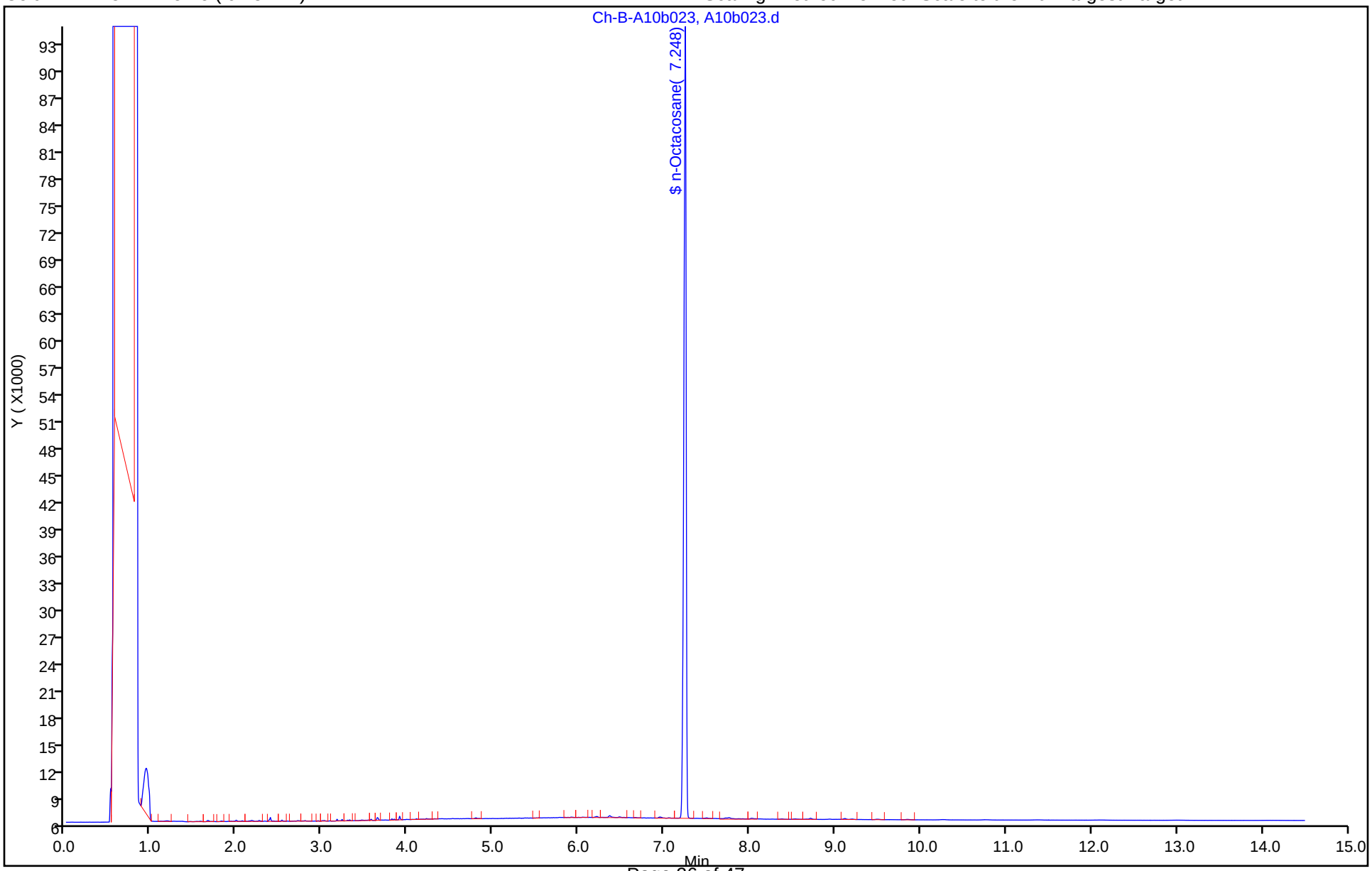
Report Date: 10-Jan-2019 15:27:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b023.d

Injection Date:	10-Jan-2019 15:06:14	Instrument ID:	GC69B	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90626-F-5-A	Lab Sample ID:	440-90626-5	Worklist Smp#:	23
Client ID:	DG-Z5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b023.d				
Lims ID:	720-90626-F-5-A				
Client ID:	DG-Z5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 15:06:14	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	10-Jan-2019 15:27:14	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0318				

First Level Reviewer: doanm Date: 10-Jan-2019 15:27:14

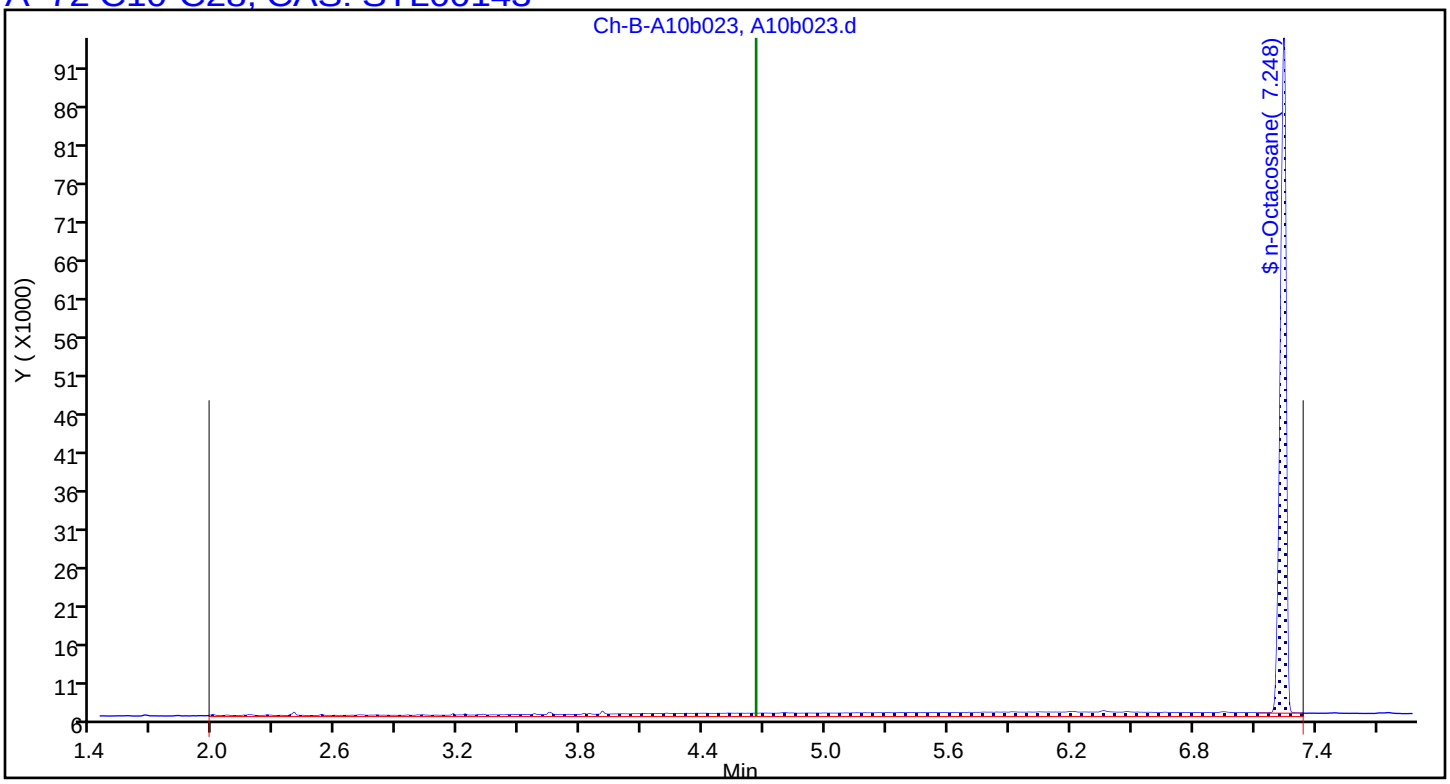
Compound	Amount Added	Amount Recovered	% Rec.
$ 6 n-Triacontane-d62	0.0	0	0.00
$ 128 n-Octacosane	200.0	139.5	69.74

Report Date: 10-Jan-2019 15:27:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b023.d				
Injection Date:	10-Jan-2019 15:06:14	Instrument ID:	GC69B		
Lims ID:	720-90626-F-5-A	Lab Sample ID:	440-90626-5		
Client ID:	DG-Z5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

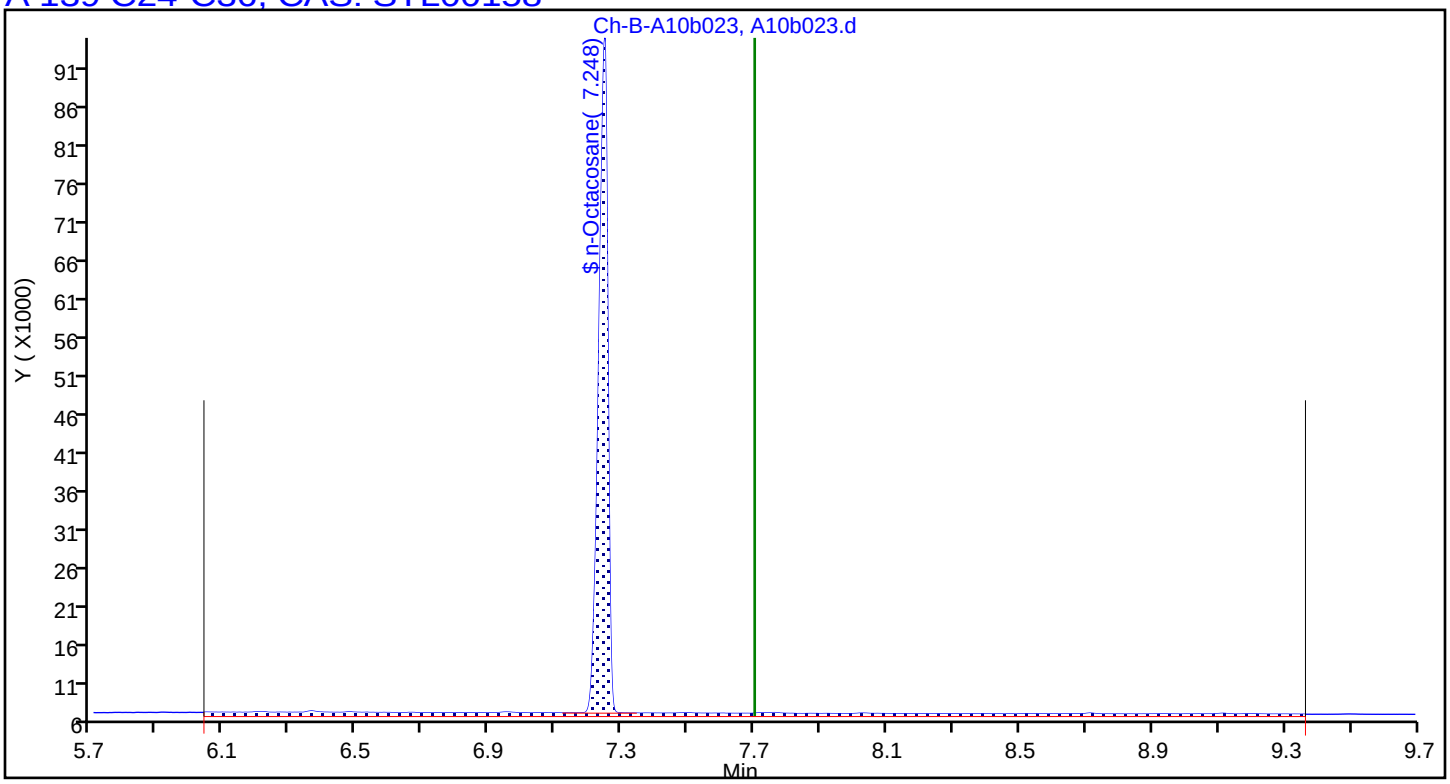


Report Date: 10-Jan-2019 15:27:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b023.d				
Injection Date:	10-Jan-2019 15:06:14	Instrument ID:	GC69B		
Lims ID:	720-90626-F-5-A	Lab Sample ID:	440-90626-5		
Client ID:	DG-Z5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 139 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b024.d				
Lims ID:	720-90626-F-6-A				
Client ID:	DG-X5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 15:26:55	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Jan-2019 08:09:25	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0319				
First Level Reviewer: doanm		Date:	11-Jan-2019 08:09:25		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.658	(1.975-7.342)		82210	48.2	
$ 128 n-Octacosane	7.247	7.247	0.000	153005	128.2	
A 139 C24-C36	7.701	(6.038-9.363)		77388	43.8	

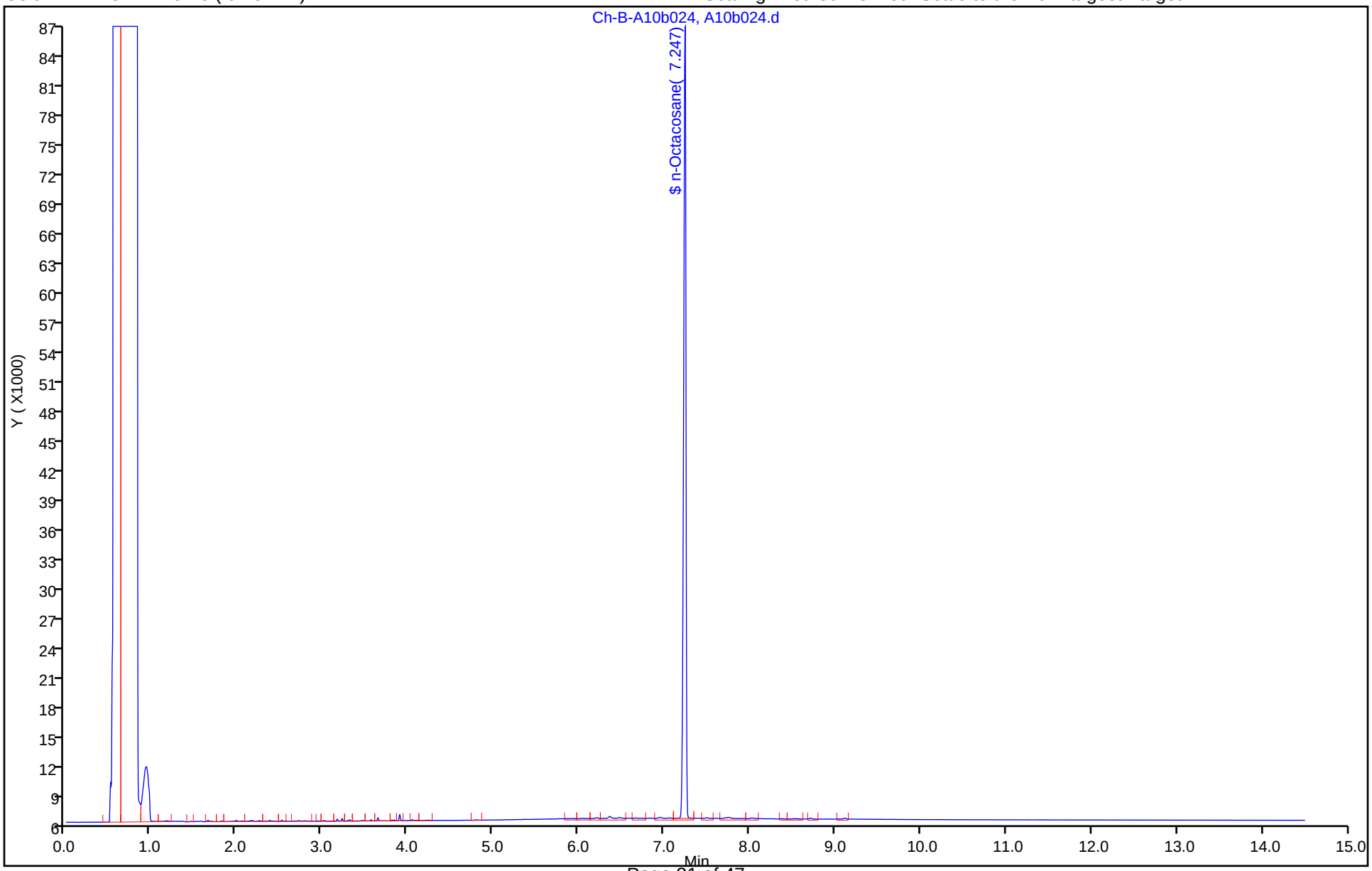
Report Date: 11-Jan-2019 08:09:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b024.d

Injection Date:	10-Jan-2019 15:26:55	Instrument ID:	GC69B	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90626-F-6-A	Lab Sample ID:	440-90626-6	Worklist Smp#:	24
Client ID:	DG-X5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b024.d				
Lims ID:	720-90626-F-6-A				
Client ID:	DG-X5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 15:26:55	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Jan-2019 08:09:25	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0319				

First Level Reviewer: doanm Date: 11-Jan-2019 08:09:25

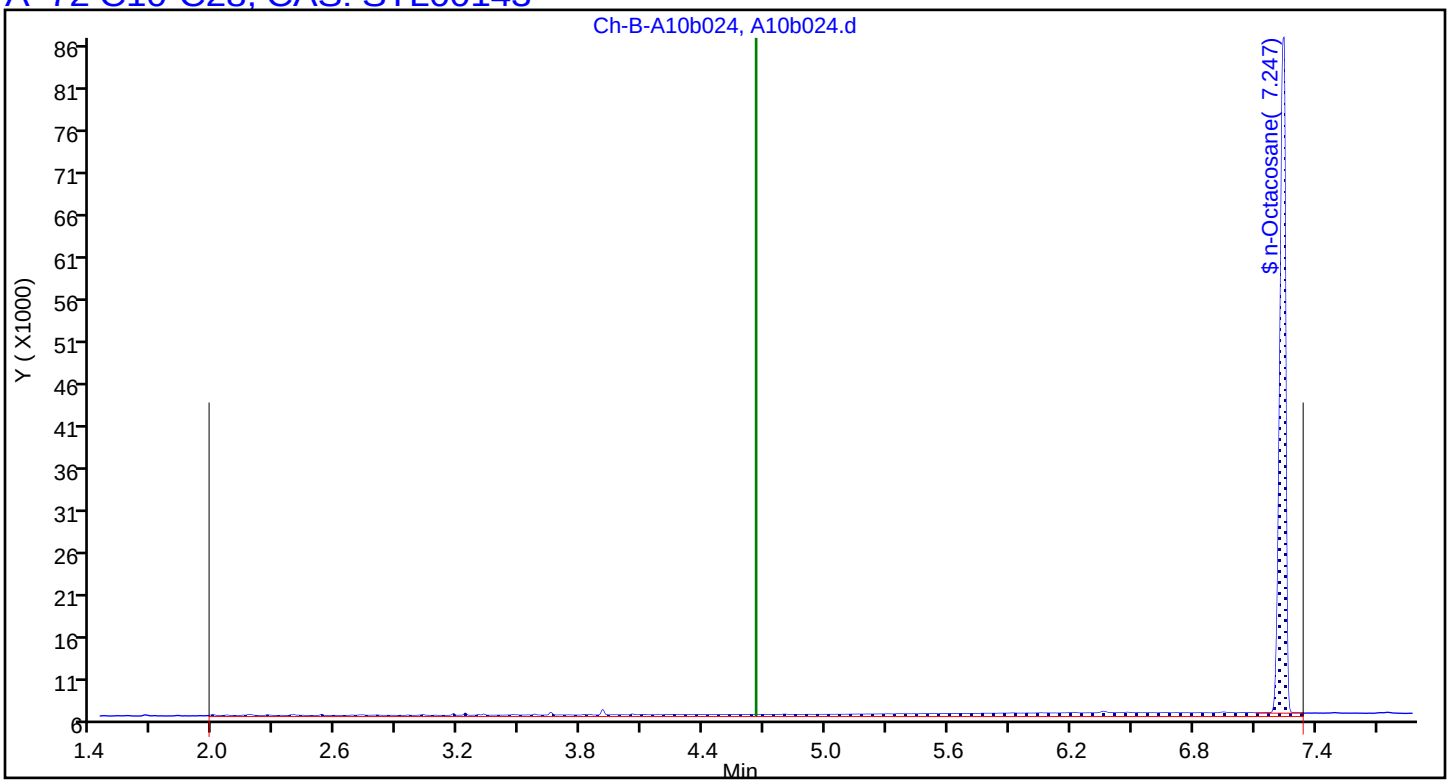
Compound	Amount Added	Amount Recovered	% Rec.
$ 6 n-Triacontane-d62	0.0	0	0.00
$ 128 n-Octacosane	200.0	128.2	64.09

Report Date: 11-Jan-2019 08:09:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b024.d				
Injection Date:	10-Jan-2019 15:26:55	Instrument ID:	GC69B		
Lims ID:	720-90626-F-6-A	Lab Sample ID:	440-90626-6		
Client ID:	DG-X5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

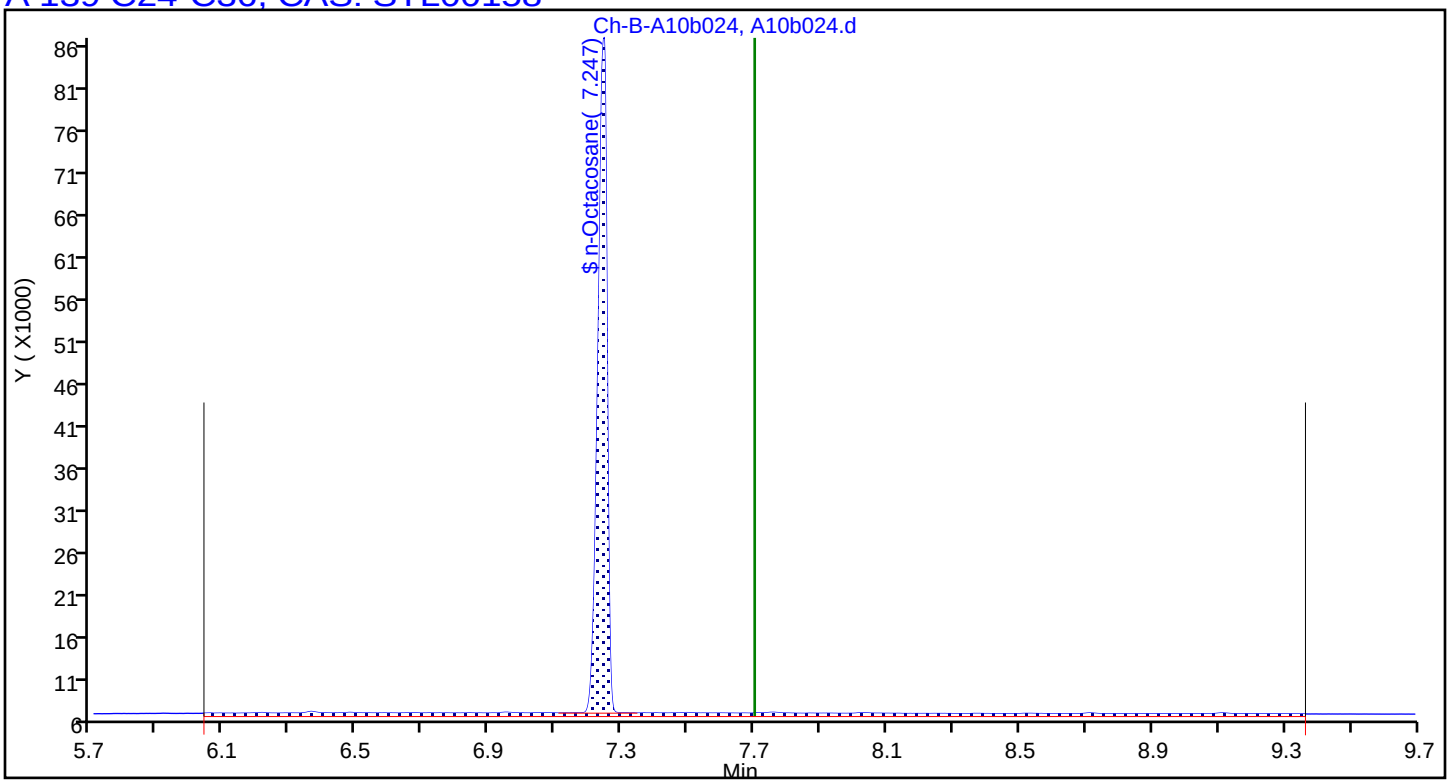


Report Date: 11-Jan-2019 08:09:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b024.d				
Injection Date:	10-Jan-2019 15:26:55	Instrument ID:	GC69B		
Lims ID:	720-90626-F-6-A	Lab Sample ID:	440-90626-6		
Client ID:	DG-X5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 139 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b025.d				
Lims ID:	720-90626-F-7-A				
Client ID:	DG-V5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 15:47:44	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Jan-2019 08:09:38	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0319				
First Level Reviewer: doanm		Date:	11-Jan-2019 08:09:38		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.658	(1.975-7.342)		69986	37.1	
$ 128 n-Octacosane	7.248	7.247	0.001	162878	136.2	
A 139 C24-C36	7.701	(6.038-9.363)		61004	29.0	

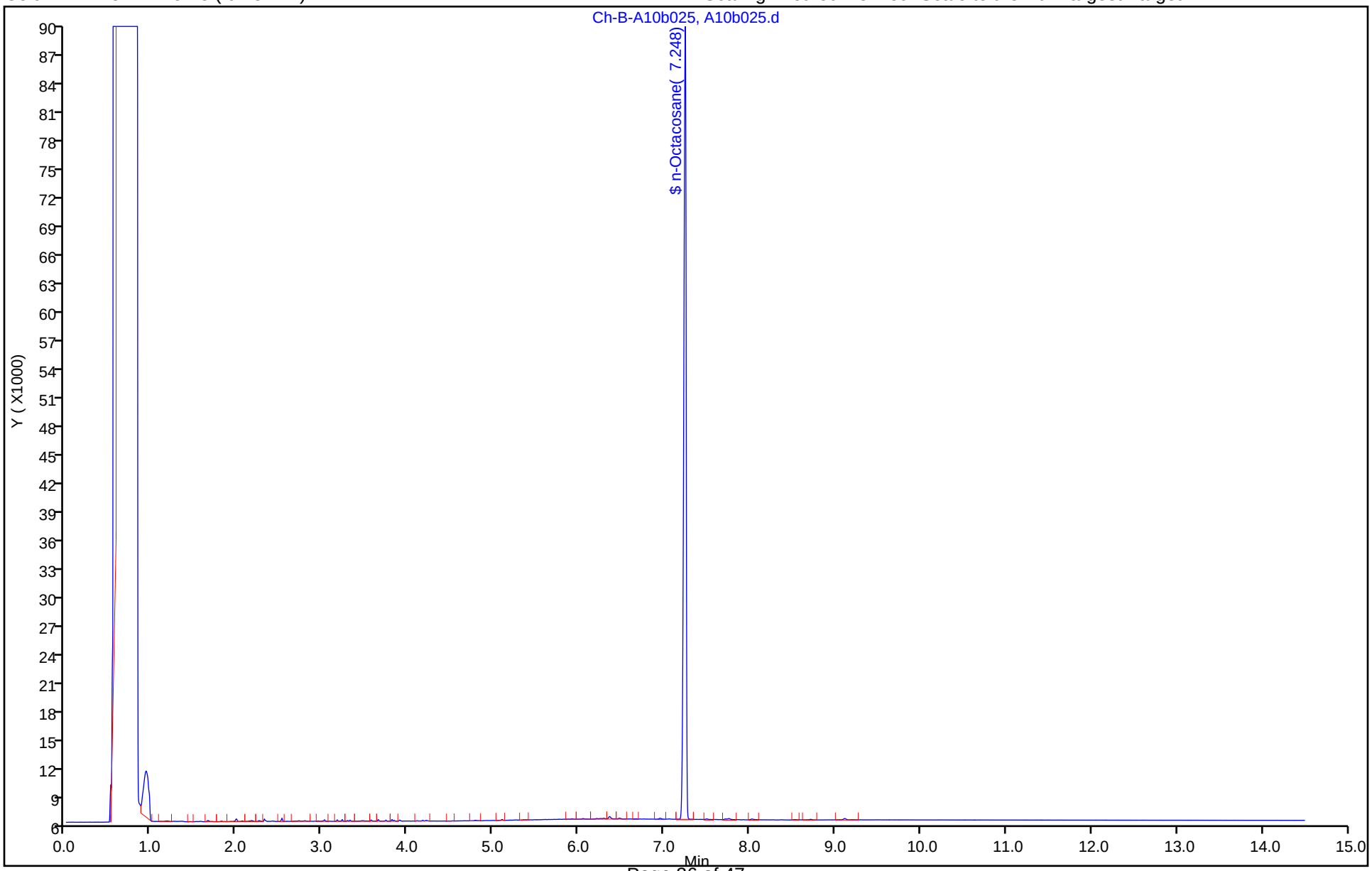
Report Date: 11-Jan-2019 08:09:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b025.d

Injection Date:	10-Jan-2019 15:47:44	Instrument ID:	GC69B	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90626-F-7-A	Lab Sample ID:	440-90626-7	Worklist Smp#:	25
Client ID:	DG-V5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b025.d
Lims ID: 720-90626-F-7-A
Client ID: DG-V5W
Sample Type: Client
Inject. Date: 10-Jan-2019 15:47:44 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69B

Method: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m
Limit Group: GC-8015DRO
Last Update: 11-Jan-2019 08:09:38 Calib Date: 08-Jan-2019 16:52:37
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0319

First Level Reviewer: doanm Date: 11-Jan-2019 08:09:38

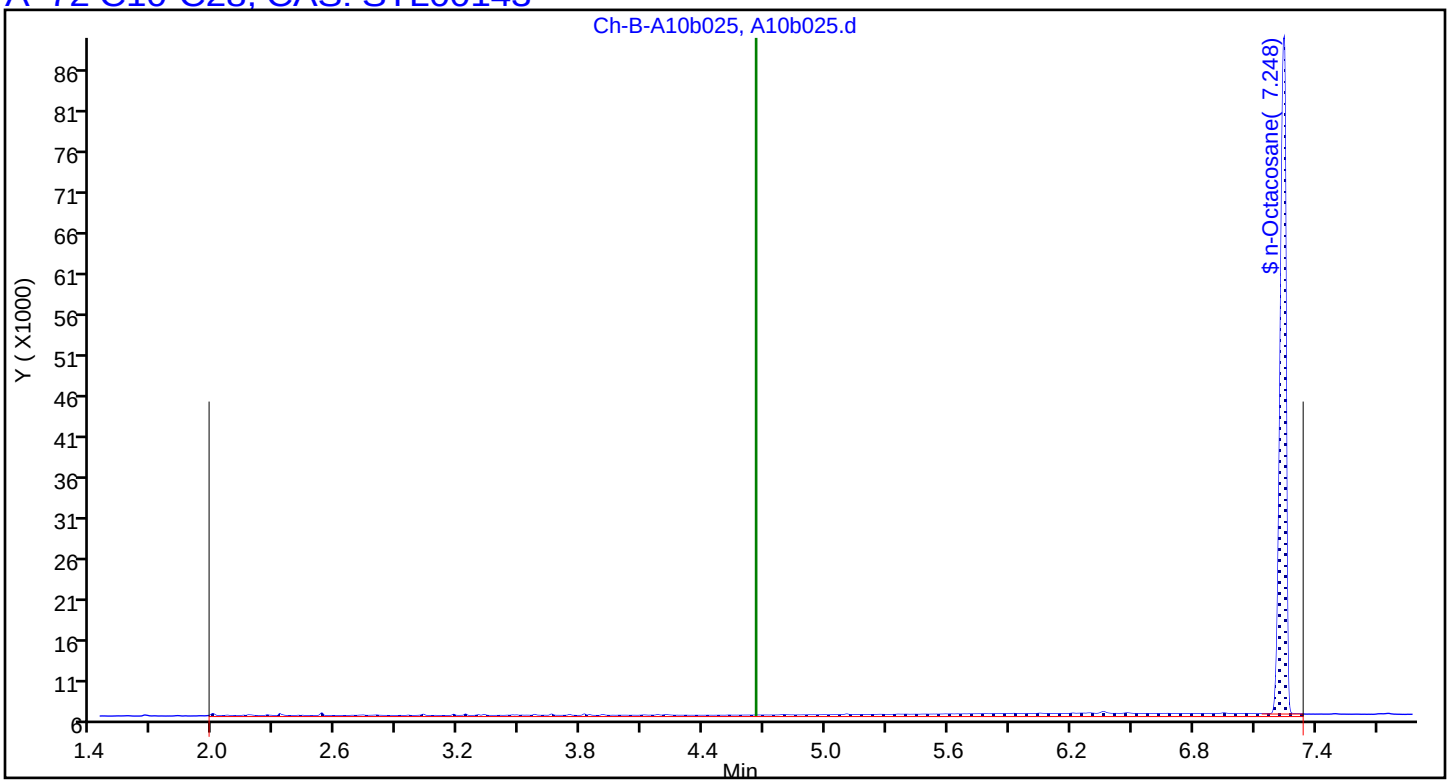
Compound	Amount Added	Amount Recovered	% Rec.
$ 6 n-Triacontane-d62	0.0	0	0.00
$ 128 n-Octacosane	200.0	136.2	68.11

Report Date: 11-Jan-2019 08:09:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b025.d				
Injection Date:	10-Jan-2019 15:47:44	Instrument ID:	GC69B		
Lims ID:	720-90626-F-7-A	Lab Sample ID:	440-90626-7		
Client ID:	DG-V5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



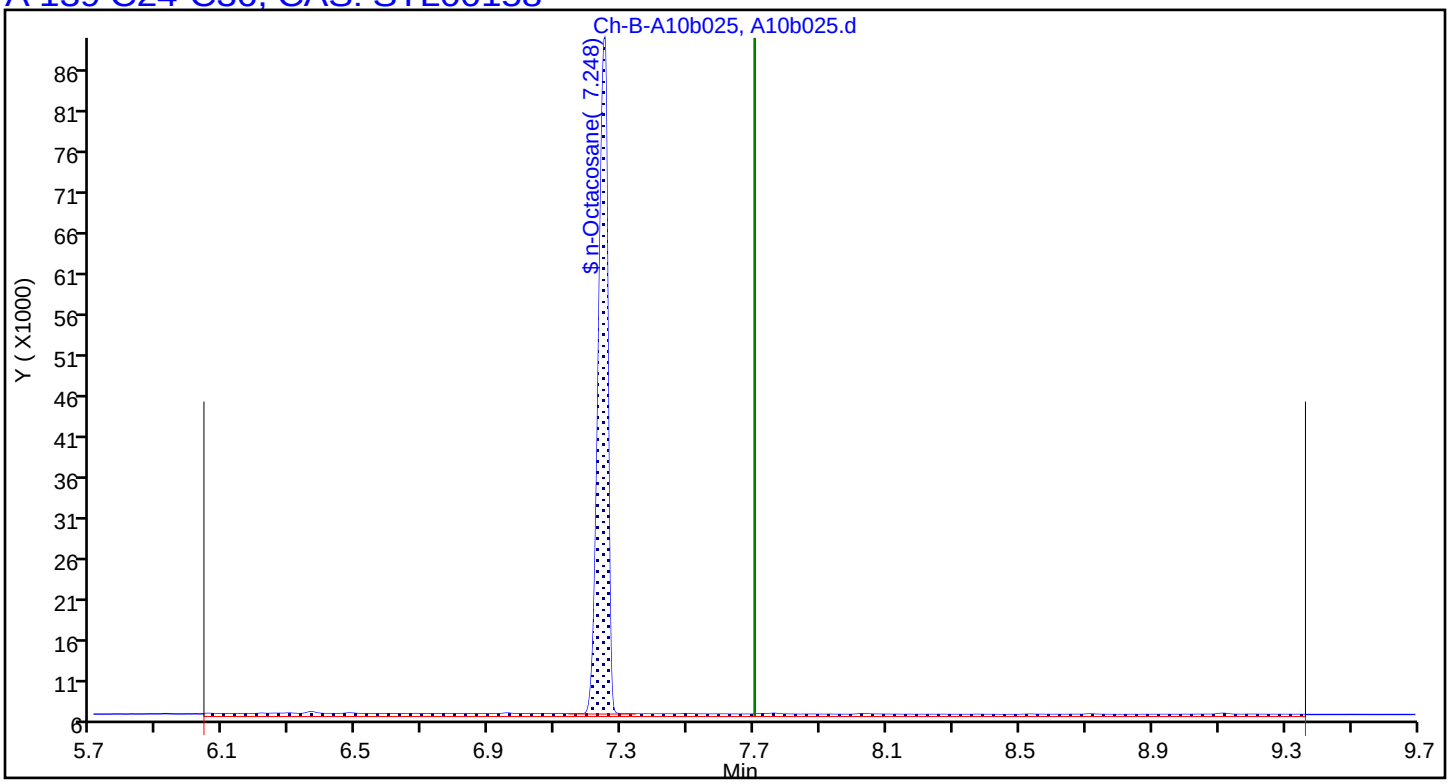
Report Date: 11-Jan-2019 08:09:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b025.d

Injection Date:	10-Jan-2019 15:47:44	Instrument ID:	GC69B		
Lims ID:	720-90626-F-7-A	Lab Sample ID:	440-90626-7		
Client ID:	DG-V5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 139 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b026.d				
Lims ID:	720-90626-F-8-A				
Client ID:	DG-T5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 16:08:18	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Jan-2019 08:09:52	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0319				
First Level Reviewer: doanm		Date:	11-Jan-2019 08:09:52		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.658	(1.975-7.342)		394360	331.2	
$ 128 n-Octacosane	7.245	7.247	-0.002	140651	118.1	
A 139 C24-C36	7.701	(6.038-9.363)		74020	40.8	

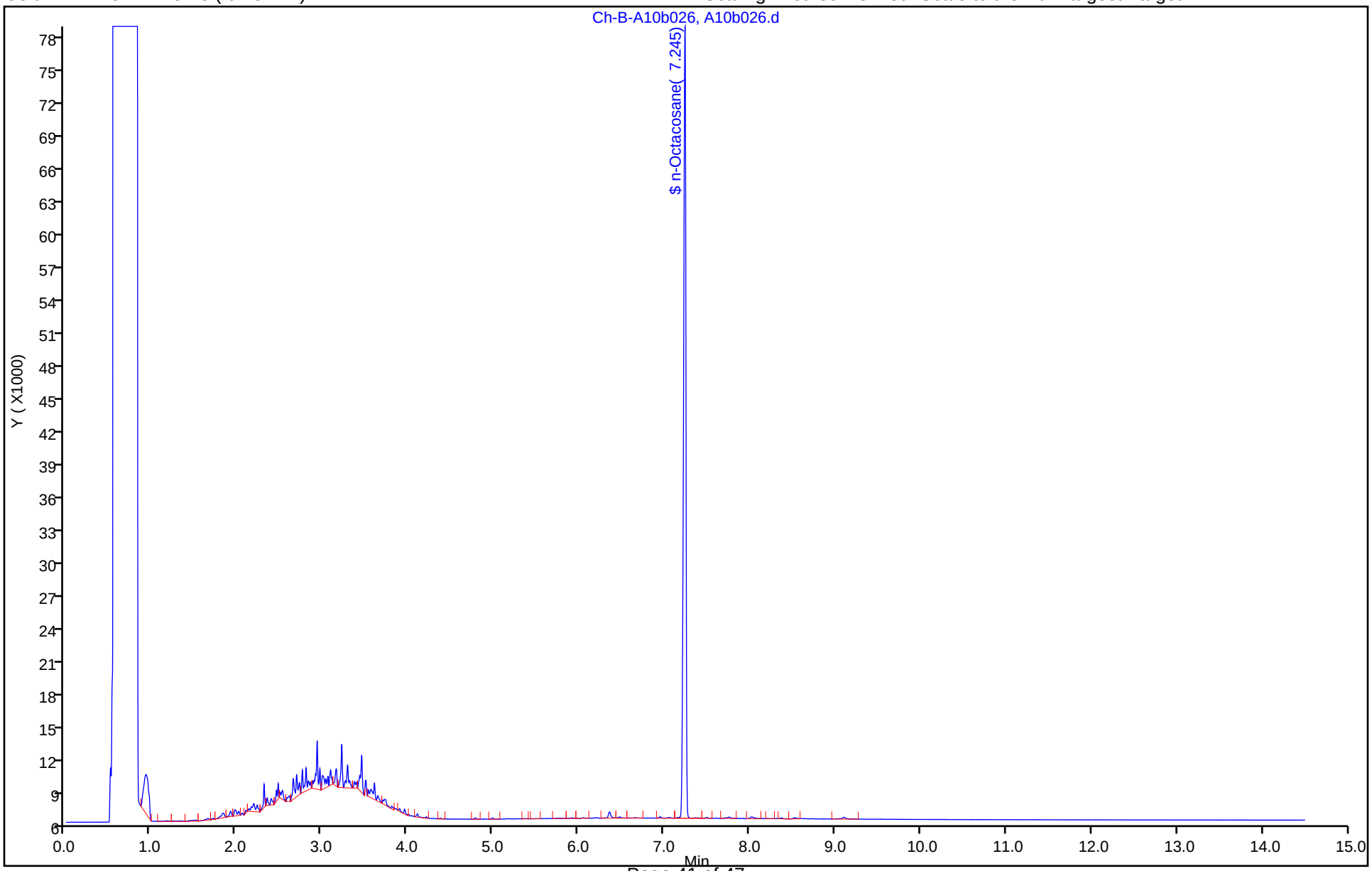
Report Date: 11-Jan-2019 08:09:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b026.d

Injection Date:	10-Jan-2019 16:08:18	Instrument ID:	GC69B	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90626-F-8-A	Lab Sample ID:	440-90626-8	Worklist Smp#:	26
Client ID:	DG-T5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b026.d				
Lims ID:	720-90626-F-8-A				
Client ID:	DG-T5W				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 16:08:18	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69B		
Method:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\8015DRO_69B.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Jan-2019 08:09:52	Calib Date:	08-Jan-2019 16:52:37		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69B\20190108-113964.b\A08b014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0319				

First Level Reviewer: doanm Date: 11-Jan-2019 08:09:52

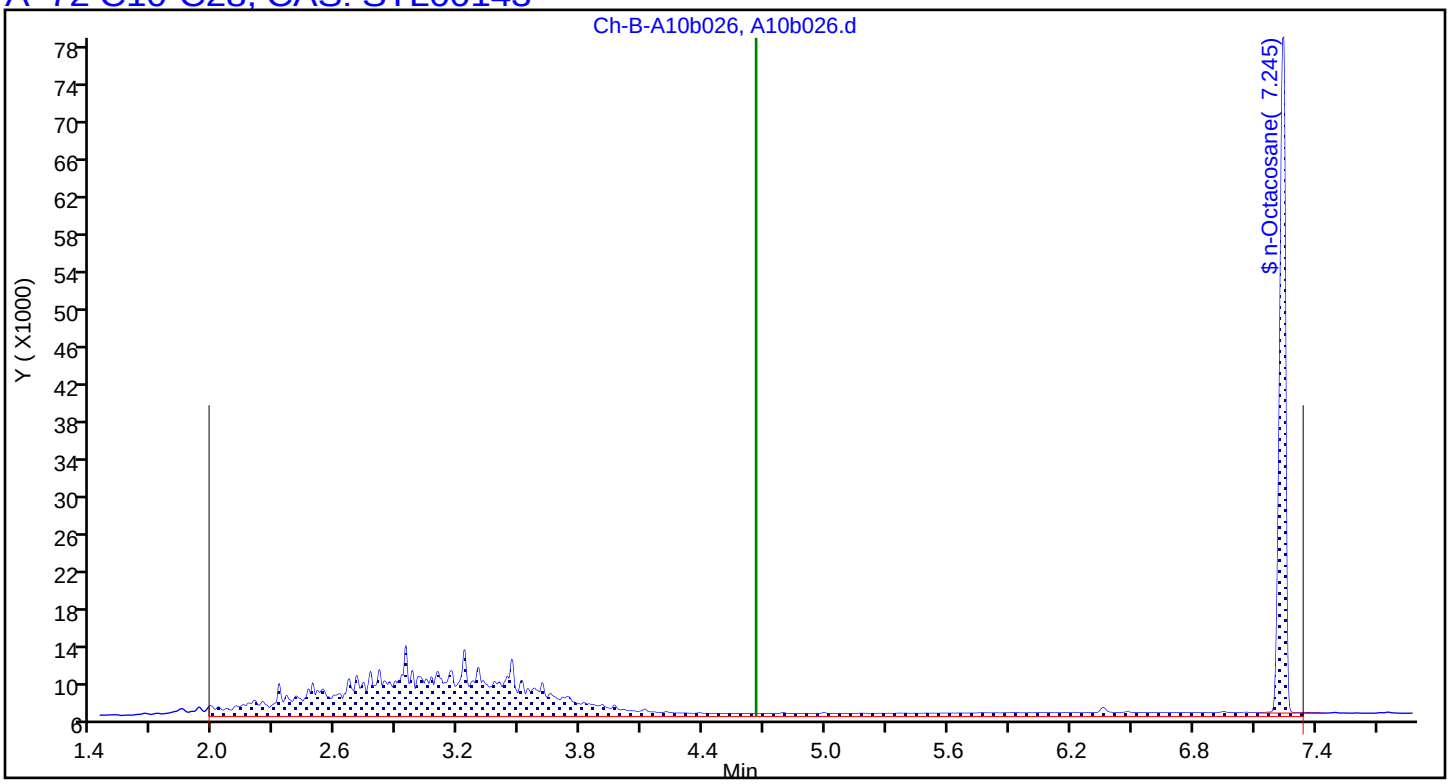
Compound	Amount Added	Amount Recovered	% Rec.
$ 6 n-Triacontane-d62	0.0	0	0.00
$ 128 n-Octacosane	200.0	118.1	59.06

Report Date: 11-Jan-2019 08:09:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b026.d				
Injection Date:	10-Jan-2019 16:08:18	Instrument ID:	GC69B		
Lims ID:	720-90626-F-8-A	Lab Sample ID:	440-90626-8		
Client ID:	DG-T5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



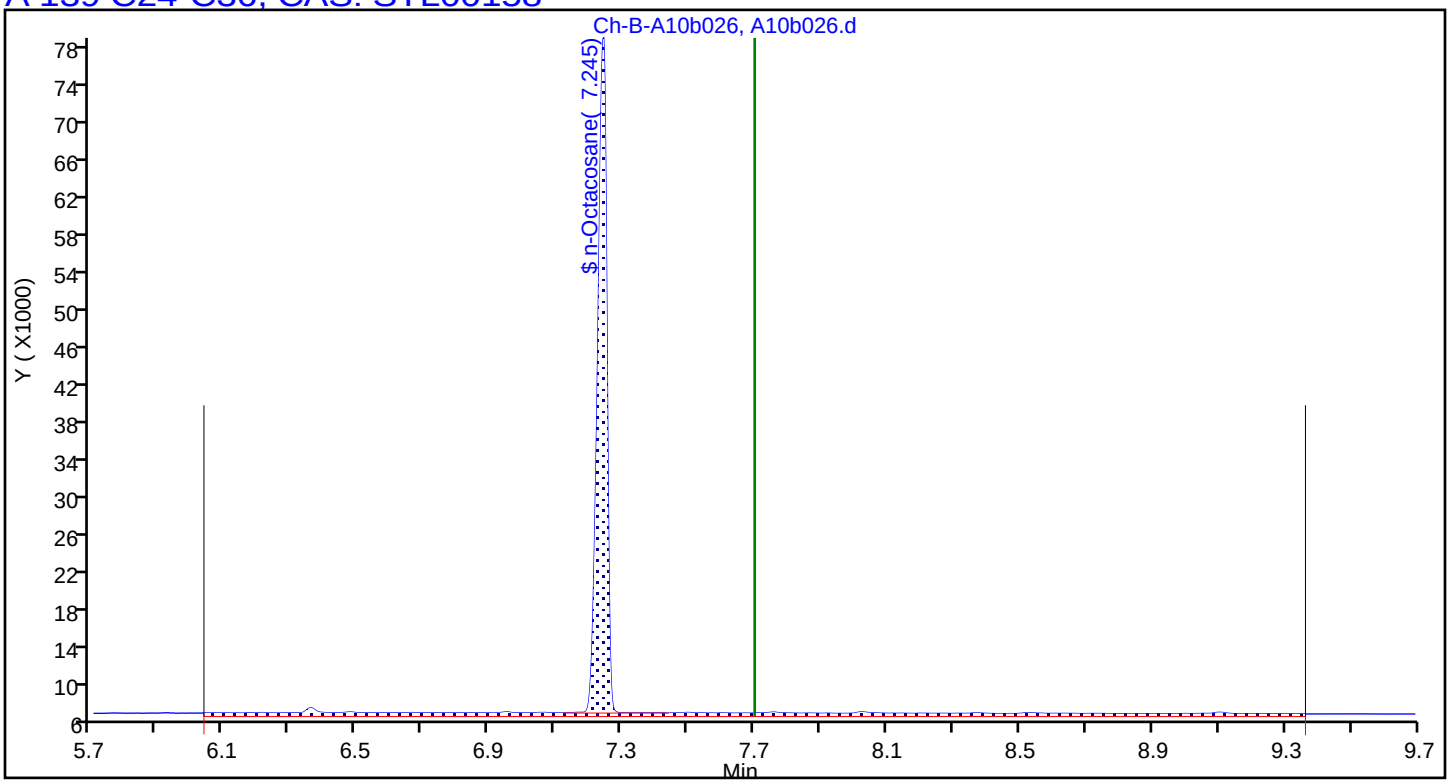
Report Date: 11-Jan-2019 08:09:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69B\20190110-114059.b\A10b026.d

Injection Date:	10-Jan-2019 16:08:18	Instrument ID:	GC69B		
Lims ID:	720-90626-F-8-A	Lab Sample ID:	440-90626-8		
Client ID:	DG-T5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69B	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 139 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600 3002

720-90626

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-7-19	COC No 1X7697
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George A Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90626 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-A5W	1-7-19	1020	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-AH5W	1-7-19	1045	↓	↓	9	Y		X	X	X	X	X	
3	DG-AF5W	↓	1430	↓	↓	9	Y		X	X	X	X	X	
4	DG-AD5W	↓	1445	↓	↓	9	Y		X	X	X	X	X	
5	DG-Z5W	↓	1500	↓	↓	9	Y		X	X	X	X	X	
6	DG-X5W	↓	1515	↓	↓	9	Y		X	X	X	X	X	
7	DG-V5W	↓	1530	↓	↓	9	Y		X	X	X	X	X	
8	DG-T5W	↓	1545	↓	↓	9	Y		X	X	X	X	X	
9	TB 01072019	1-7-19				1			X					
10	FB 01072019	1-7-19				1			X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd _____ Corr'd _____	Therm ID No _____	
Relinquished by: George Hichborn	Company: GEOSYNTEC	Date/Time: 1-7-18 1600	Received by:	Company: TAPLS	Date/Time: 1/7/19 1600
Relinquished by	Company: TAPLS	Date/Time: 1/7/19 1737	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/7/19 1737

6-0/2-2/0-3/1-3C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2-9/7-5/1.4-C 1/7/19

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 776615741 C847	COC No.: 720-40713.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90626-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/17/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C/3520C (MOD) 8270 Standard List	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AJ5W (720-90626-1)	1/7/19	10:20 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-AH5W (720-90626-2)	1/7/19	10:45 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-AF5W (720-90626-3)	1/7/19	14.30 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-AD5W (720-90626-4)	1/7/19	14:45 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-25W (720-90626-5)	1/7/19	15:00 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-X5W (720-90626-6)	1/7/19	15:15 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-V5W (720-90626-7)	1/7/19	15:30 Pacific		Water			X	X	X	X	X	7	check for 2 phases
DG-T5W (720-90626-8)	1/7/19	15:45 Pacific		Water			X	X	X	X	X	7	check for 2 phases
TB 01072019 (720-90626-9)	1/7/19	Pacific		Water			X	X				1	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time: 1/8/19 1300	Company: TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/9/19 9:30	Company: TA-IRV

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9/1.9 2.1/2.1 IR89 08/0.8

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 0893	COC No: 720-40713.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90626-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/17/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	~~8270C/3520C (MOD) 8270_Standard list~~ 7-8-19	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
FB 01072019 (720-90626-10)	1/7/19	Pacific		Water			X	X				4	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by	Date/Time: 1/8/19 1300	Company: TAPLS	Received by	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/9/19 9:30	Company: TA IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.1/2.1 IR09	

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-90640-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/31/2019 3:18 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/31/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90640-1

Comments
Client email included for login discrepancies.

Receipt
The samples were received on 1/8/2019 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4º C and 1.8º C.

Receipt Exceptions

The Chain-of-Custody indicated the matrix spike/matrix spike duplicate (MS/MSD) were to be performed on six samples. Per client's instruction, the MS/MSD were to be performed on DG-Q7S-3.5-4 (720-90640-27) only.
The matrix and the number of containers for FB 1-8-19 (720-90640-33) were not recorded on the Chain-of-Custody. Three VOA vials containing water and a stir bar were received and logged in.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#4) DG-V5S-3.5-4. The 4oz container label list time: 08:05, while the COC lists time: 08:07 .
(#6) DG-X5S-0.5-1. The 4oz container label list time: 08:27, while the COC lists time: 08:25 .
(#8) DG-Z5S-0.5-1. The 4oz container label list time: 08:42, while the COC lists time: 08:40 .
(#9) DG-Z5S-3.5-4. The 4oz container label list time: 08:40, while the COC lists time:08:42
(#15) DG-AH5S-3.5-4. The 4oz & 8oz container labels list time: 08:57, while the COC lists time:09:57
(#16) DG-AH5S-8-8.5. The 2oz container label list sample ID DG-AH5S (no depth) time: 10:00, while the COC lists DG-AH5S-8-8.5 time:10:00,
(#27) DG-Q7S-3.5-4. The handwritten 4oz container (1of2 for MS/MSD) label list time:12:45, while the COC lists time:13:45.
(#29) DG-S7S-0.5-1. The 2oz, 4oz ,8oz container labels list time: 14:20, while the COC lists time: 24:20, logged as container labels.

The client was contacted, and the lab was instructed to login according to COC.

The following sample was collected in an improper container: FB-1.18.19 (720-90640-33). The client use the DI water terracores with stir bar and filled them up with water for the FB

The following samples did not have sample time listed on the COC and were logged with samples times on containers: Dub-125 (720-90640-23), Dup-44 (720-90640-28) and FB-1-8-19 (720-90640-33)

GC/MS VOA
Method(s) 8260B/8260B/CA_LUFTMS: Internal standard (ISTD) response for TBA-d9 (49.96%) for the following sample was outside acceptance criteria of 50-200%: DG-AF5S-0.5-1 (720-90640-12). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method(s) 8260/ 8260B/CA_LUFTMS: Surrogate recoveries for Toluene-d8 and 4-Bromofluorobenzene for the following samples were outside the upper control limits: DG-P5S-0.5-1 (720-90640-19) and DUP-125 (720-90640-23). These sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B/8260B/CA_LUFTMS: Surrogate recovery for Toluene-d8 for the following samples were outside the upper control limits: DG-P5S-3.5-4 (720-90640-20), DUP-44 (720-90640-28) and DG-U7S-3.5-4 (720-90640-32). These sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B/8260B/CA_LUFTMS: Surrogate recoveries for Dibromofluoromethane and 4-Bromofluorobenzene for the following sample was outside the upper control limits: DG-O7S-3.5-4 (720-90640-25). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B/8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following sample was outside the upper control limits: DG-S7S-0.5-1 (720-90640-29). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: The sample was collected terracore voa with stir bar filled with 40ml of water, and pH was 7. It's analyzed past the 7 day hold: FB-1.18.19 (720-90640-33).

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-521687 and analytical batch 440-521859 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-521861 recovered above the upper control limit for vinyl chloride (36%D out of 20%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-523637 recovered above the upper control limit

for Vinyl chloride(58.4%D, out of 20%D), Acetone (114.8%D out of 30%D), and Ethylbenzene(27.1%D, out of 20%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-523637 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a "*" symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258213 and analytical batch 720-258376 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258535 and analytical batch 720-258666 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes:DG-Z5S-0.5-1 (720-90640-8), DG-AD5S-0.5-1 (720-90640-10), DG-AF5S-0.5-1 (720-90640-12), DG-AH5S-3.5-4 (720-90640-15), DG-AJ5S-0.5-1 (720-90640-17), DG-AJ5S-3.5-4 (720-90640-18), DG-N5S-0.5-1 (720-90640-21), DG-P5S-3.5-4 (720-90640-20),DG-O7S-0.5-1 (720-90640-24), DG-Q7S-0.5-1 (720-90640-26), DUP-44 (720-90640-28) and DG-S7S-0.5-1 (720-90640-29. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DG-S7S-0.5-1 (720-90640-29). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The method blank for preparation batch 720-258201 and analytical batch 720-258273 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AJ5S-3.5-4 (720-90640-18) and DG-P5S-3.5-4 (720-90640-20). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The method blank for preparation batch 720-258200 and analytical batch 720-258187 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The Diesel Range Organics (DRO) concentration reported for the following sample is due to the presence of discrete peaks: DG-Z5S-3.5-4 (720-90640-9).

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following samples: DG-AJ5S-0.5-1 (720-90640-17), DG-P5S-0.5-1 (720-90640-19) and DG-N5S-0.5-1 (720-90640-21). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following sample: DG-O7S-0.5-1 (720-90640-24). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE and alpha-Chlordane for the following sample: DUP-44 (720-90640-28). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258208 and analytical batch 720-258325 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: The matrix spike (MS) recovery for preparation batch 720-258204 and analytical batch 720-258312 were outside control limits for gamma-BHC (Lindane) on the front column. The lower value from the back column has been reported. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits on both columns.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE & 4,4'-DDD for the following sample: DG-AF5S-0.5-1 (720-90640-12). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: Surrogate recovery for the following sample was outside control limits: DG-S7S-0.5-1 (720-90640-29). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: Surrogate recovery for the following sample was outside control limits: DG-O7S-0.5-1 (720-90640-24). Re-analysis was performed with concurring results.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: DG-S7S-3.5-4 (720-90640-30). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The following sample contained more than one Aroclor with insufficient separation. The results are biased high due to shared peaks: DUP-125 (720-90640-23).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 720-258195 and analytical batch 720-258268 contained Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258195 and analytical batch 720-258268 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recoveries for Barium-128%, Chromium-126%, Copper-147%, Lead-218%, Vanadium-126% and Zinc-220% associated with batch 720-258268 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258268 was outside control limits Barium-23%, Cobalt-38%, Chromium-28%, Copper-24%, Nickel-21%, Lead-22%, Antimony-25%, Vanadium-26% and Zinc17% : (720-90640-E-27-C SD)

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258268 contained Lead (0.006 mg/L) above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “^” symbol.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-T5S-0.5-1 (720-90640-1), DG-T5S-3.5-4 (720-90640-2), DG-V5S-0.5-1 (720-90640-3), DG-V5S-3.5-4 (720-90640-4), DG-V5S-7.5-8 (720-90640-5), DG-X5S-0.5-1 (720-90640-6), DG-X5S-3.5-4 (720-90640-7), DG-Z5S-0.5-1 (720-90640-8), DG-Z5S-3.5-4 (720-90640-9), DG-AD5S-0.5-1 (720-90640-10), DG-AD5S-3.5-4 (720-90640-11), DG-AF5S-0.5-1 (720-90640-12), DG-AF5S-3.5-4 (720-90640-13), DG-AH5S-0.5-1 (720-90640-14), DG-AH5S-3.5-4 (720-90640-15), DG-AH5S-8-8.5 (720-90640-16), DG-AJ5S-0.5-1 (720-90640-17), DG-AJ5S-3.5-4 (720-90640-18), DG-P5S-0.5-1 (720-90640-19) and DG-Q7S-3.5-4 (720-90640-27). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-258198 and analytical batch 720-258537 contained Chromium (0.291 mg/Kg) and Nickel (0.263 mg/Kg) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258537 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “^” symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258198 and analytical batch 720-258537 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Arsenic-130%, Barium-131% and Lead-130% associated with batch 720-258537 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258537 was outside control limits for: Cobalt-20%, Nickel-12%, Lead-11% and Zinc-12% (720-90640-E-20-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-P5S-3.5-4 (720-90640-20), DG-N5S-0.5-1 (720-90640-21), DG-N5S-3.5-4 (720-90640-22), DUP-125 (720-90640-23), DG-O7S-0.5-1 (720-90640-24), DG-O7S-3.5-4 (720-90640-25), DG-Q7S-0.5-1 (720-90640-26), DUP-44 (720-90640-28), DG-S7S-0.5-1 (720-90640-29), DG-S7S-3.5-4 (720-90640-30), DG-U7S-0.5-1 (720-90640-31) and DG-U7S-3.5-4 (720-90640-32). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258553 contained Lead above the reporting limit (RL). All

reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a “^” symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000009.D
Lims ID: 720-90640-E-1-C
Client ID: DG-T5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 18:23:00 ALS Bottle#: 59 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-009
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:04:45 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:04:45

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.437	1.354	0.083	39194	NC	
	23 n-Decane	2.212	2.206	0.006	588399	NC	
A	21 Stoddard Solvent	2.809	(1.354-4.264)		9282693	3.90	
A	1 C9-C13	2.809	(1.354-4.264)		9282693	NC	
A	57 C10-C12	2.929	(2.206-3.652)		5953292	3.01	
	24 Dodecane	3.653	3.652	0.001	358528	NC	
A	3 C9 - C17	3.834	(1.354-6.313)		27892246	9.71	
A	60 C10-C16	4.024	(2.206-5.842)		19373908	7.57	
A	47 C9 - C18	4.056	(1.354-6.758)		39937270	17.6	
	26 C13	4.267	4.264	0.003	442399	NC	
A	25 C9-C19	4.268	(1.354-7.181)		55908709	19.4	
A	15 Kerosene	4.268	(1.354-7.181)		55908709	24.6	
$	27 n-Decanoic Acid (Surr)		4.614			ND	U
A	59 C12-C16	4.747	(3.652-5.842)		13420616	6.79	
A	61 C10-C20	4.897	(2.206-7.588)		91502679	46.3	
A	28 C9-C24	5.204	(1.354-9.054)		205582422	104.0	
A	29 C9-C25	5.370	(1.354-9.386)		236101204	119.4	
A	54 C10-C23	5.457	(2.206-8.709)		172949581	87.5	
A	4 C10-C24	5.630	(2.206-9.054)		204133501	103.2	
A	16 C10-C25	5.796	(2.206-9.386)		234652283	118.7	
	45 Hexadecane	5.844	5.842	0.002	1241457	NC	
A	14 C10-C26	5.956	(2.206-9.706)		257298734	130.1	
A	67 C12-C22	6.001	(3.652-8.350)		142522109	72.1	
A	32 C10-C28	6.260	(2.206-10.314)		324559571	164.1	
A	12 Unknown Hydrocarbons	6.260	(2.206-10.314)		324559571	NC	
A	5 Diesel	6.260	(2.206-10.314)		324559571	164.1	
A	30 C13-C22	6.307	(4.264-8.350)		140641629	71.1	
	44 Heptadecane	6.356	6.313	0.043	5735523	NC	
A	31 C12-C24	6.353	(3.652-9.054)		198180209	100.2	
	49 n-Octadecane	6.759	6.758	0.001	3854378	NC	
A	52 Mineral oil	6.875	(1.354-12.396)		631592682	274.4	
A	11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		631592682	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		631592682	NC	
33 C19	7.182	7.181	0.001	9918735	NC	
A 64 C13-C28	7.289	(4.264-10.314)		316725799	160.2	
A 17 C10-C36	7.301	(2.206-12.396)		630143761	318.7	
A 13 C9-C40	7.363	(1.354-13.372)		769744800	434.2	
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		769744800	NC	
A 58 C16-C24	7.448	(5.842-9.054)		184759593	93.4	
62 icosane	7.594	7.588	0.006	6632790	NC	
A 6 C10-C40	7.789	(2.206-13.372)		768295879	433.9	
$ 34 p-Terphenyl	8.045	8.049	-0.004	69459711	26.9	
35 n-Docosane	8.352	8.350	0.002	8055282	NC	
A 18 C12-C40	8.512	(3.652-13.372)		762342587	432.1	
36 Tricosane	8.709	8.709	0.000	15769324	NC	
A 66 C13-C40	8.818	(4.264-13.372)		760462107	431.5	
37 n-Tetracosane	9.055	9.054	0.001	12959177	NC	
A 2 C16-C36 ORO	9.119	(5.842-12.396)		610769853	451.1	
38 C25	9.386	9.386	0.000	11163028	NC	
A 19 C16-C40	9.607	(5.842-13.372)		748921971	425.8	
46 n-Hexacosane	9.711	9.706	0.005	16153422	NC	
A 20 C19-C36	9.789	(7.181-12.396)		494607402	307.2	
A 55 C23-C32	10.063	(8.709-11.418)		316040998	356.3	
39 n-Octacosane	10.332	10.314	0.018	18377031	NC	
65 C29	10.600	10.604	-0.004	24441776	NC	
A 7 Motor Oil	10.725	(9.054-12.396)		413089248	357.1	
A 40 C24-C36	10.725	(9.054-12.396)		413089248	357.1	
A 10 C22-C40	10.861	(8.350-13.372)		545710049	337.1	
A 50 C25-C36	10.891	(9.386-12.396)		364859211	337.0	
A 41 C23-C40	11.040	(8.709-13.372)		524775821	330.4	
A 8 C24-C40	11.213	(9.054-13.372)		511802607	329.3	
56 Dotriacontane	11.417	11.418	-0.001	13178130	NC	
A 51 C28-C40	11.843	(10.314-13.372)		408054748	328.0	
A 63 C29-C40	11.988	(10.604-13.372)		373549560	327.1	
42 n-Hexatriacontane	12.460	12.396	0.064	16401604	NC	
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

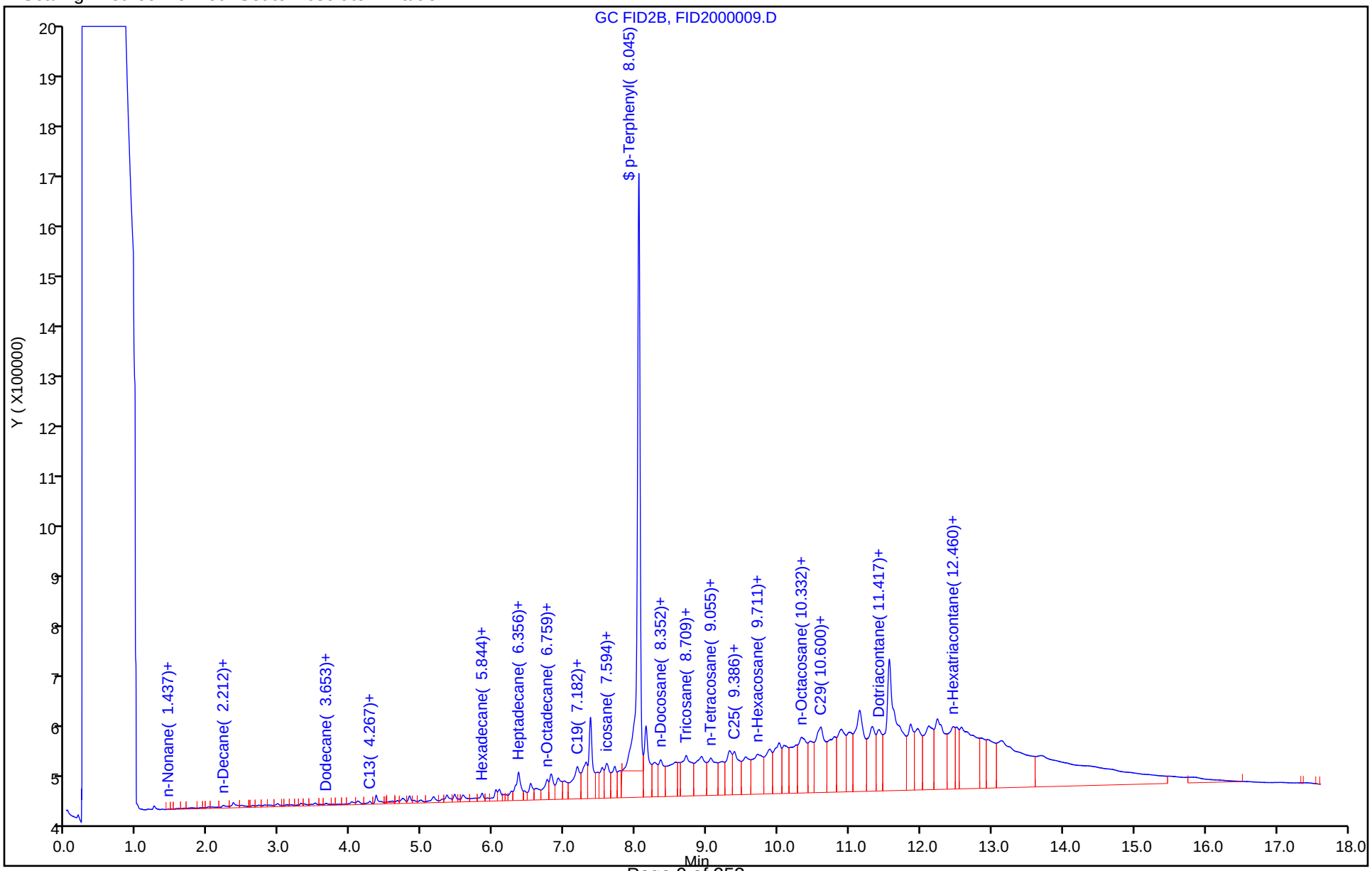
Report Date: 11-Jan-2019 12:04:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000009.D

Injection Date:	10-Jan-2019 18:23:00	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-1-C	Lab Sample ID:	720-90640-1	Worklist Smp#:	9
Client ID:	DG-T5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	59
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000009.D
Lims ID: 720-90640-E-1-C
Client ID: DG-T5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 18:23:00 ALS Bottle#: 59 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-009
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:04:45 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:04:45

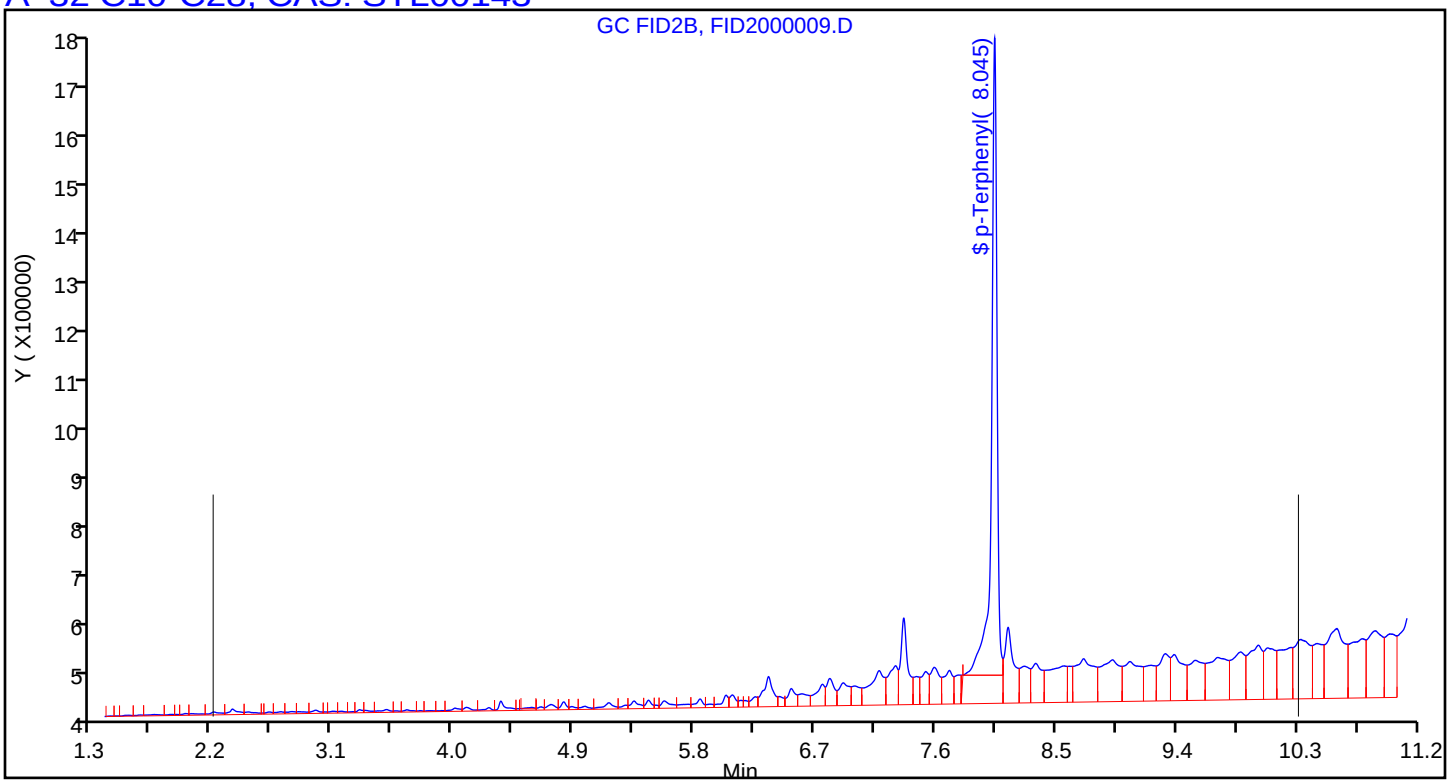
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.9	107.63

Report Date: 11-Jan-2019 12:04:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000009.D				
Injection Date:	10-Jan-2019 18:23:00	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-1-C	Lab Sample ID:	720-90640-1		
Client ID:	DG-T5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	59	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

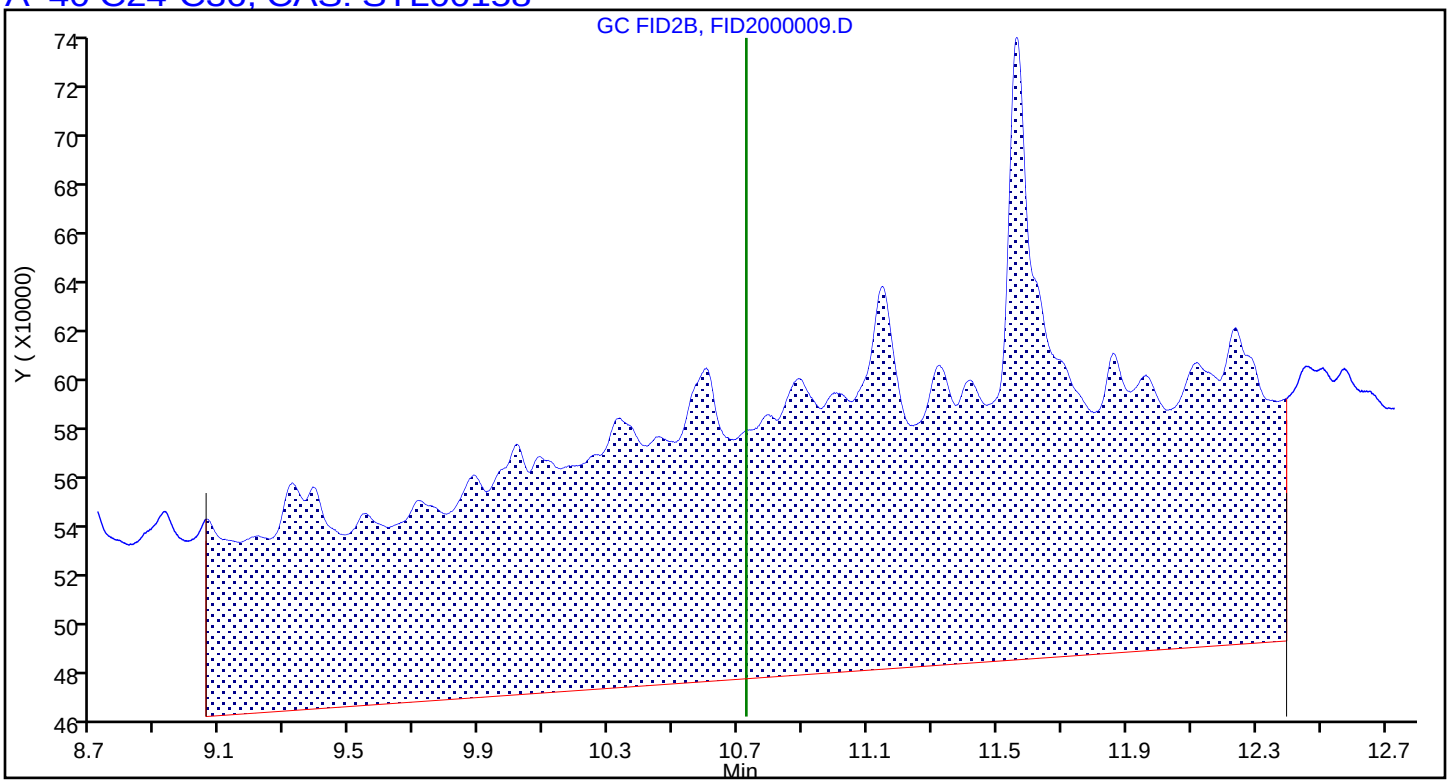


Report Date: 11-Jan-2019 12:04:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000009.D				
Injection Date:	10-Jan-2019 18:23:00	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-1-C	Lab Sample ID:	720-90640-1		
Client ID:	DG-T5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	59	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_008.d
Lims ID: 720-90640-E-2-C
Client ID: DG-T5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 19:01:27 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0056024-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:34:58 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:34:58

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.694	2.681	0.013	243	NC	
23 n-Decane	3.925	3.896	0.029	1953	NC	
A 1 C9-C13	4.633	(2.681-6.586)		35505	2.80	
A 21 Stoddard Solvent	4.633	(2.681-6.586)		35505	3.12	
A 57 C10-C12	4.842	(3.896-5.787)		30821	3.14	
24 Dodecane	5.728	5.787	-0.059	365	NC	
A 3 C9 - C17	5.985	(2.681-9.289)		52725	3.73	M
A 47 C9 - C18	6.273	(2.681-9.866)		59311	5.28	M
A 60 C10-C16	6.278	(3.896-8.659)		47060	3.77	
A 15 Kerosene	6.550	(2.681-10.419)		64143	5.70	M
A 25 C9-C19	6.550	(2.681-10.419)		64143	4.53	M
26 C13	6.550	6.586	-0.036	392	NC	
$ 27 n-Decanoic Acid (Surr)		7.205			ND	U
A 59 C12-C16	7.223	(5.787-8.659)		16604	1.69	
A 62 C10-C20	7.424	(3.896-10.952)		84766	8.63	M
A 28 C9-C24	7.776	(2.681-12.872)		159221	16.2	M
A 29 C9-C25	7.993	(2.681-13.306)		170651	17.4	M
A 54 C10-C23	8.159	(3.896-12.421)		140218	14.3	M
A 4 C10-C24	8.384	(3.896-12.872)		156016	15.9	M
A 16 C10-C25	8.601	(3.896-13.306)		167446	17.1	M
45 Hexadecane	8.654	8.659	-0.005	1077	NC	
A 14 C10-C26	8.811	(3.896-13.725)		207240	21.1	M
A 67 C12-C22	8.870	(5.787-11.952)		100622	10.2	M
A 5 Diesel	9.208	(3.896-14.519)		254665	25.9	M
A 32 C10-C28	9.208	(3.896-14.519)		254665	25.9	M
A 12 Unknown Hydrocarbons	9.208	(3.896-14.519)		254665	NC	M
A 30 C13-C22	9.269	(6.586-11.952)		99170	10.1	M
44 Heptadecane	9.303	9.289	0.014	1691	NC	M
A 31 C12-C24	9.330	(5.787-12.872)		125560	12.8	M
49 n-Octadecane	9.857	9.866	-0.009	2421	NC	M
A 52 Mineral oil	9.957	(2.681-17.233)		860958	79.2	
A 9 Crude Oil Range Organics (	9.789	(2.681-16.897)		787909	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		574782	NC	M
33 C19	10.423	10.419	0.004	817	NC	M
A 64 C13-C28	10.552	(6.586-14.519)		222757	22.7	M
A 17 C10-C36	10.397	(3.896-16.897)		571577	58.2	M
A 13 C9-C40	10.728	(2.681-18.775)		1155227	114.3	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		1155227	NC	
A 58 C16-C24	10.766	(8.659-12.872)		110033	11.2	M
61 icosane	10.957	10.952	0.005	2934	NC	M
A 6 C10-C40	11.335	(3.896-18.775)		1150988	114.0	
$ 34 p-Terphenyl	11.923	11.923	0.000	281203	25.0	
35 n-Docosane		11.952			ND	
A 18 C12-C40	12.281	(5.787-18.775)		1113238	110.6	
36 Tricosane	12.420	12.421	-0.001	6079	NC	M
A 66 C13-C40	12.680	(6.586-18.775)		1033507	104.2	
37 n-Tetracosane	12.870	12.872	-0.002	7020	NC	M
A 2 C16-C36 ORO	12.946	(8.659-17.233)		675600	91.6	
38 C25	13.307	13.306	0.001	8770	NC	M
A 19 C16-C40	13.717	(8.659-18.775)		1076649	107.6	
46 n-Hexacosane	13.720	13.725	-0.005	31024	NC	M
A 20 C19-C36	13.826	(10.419-17.233)		419891	53.8	
A 55 C23-C32	14.189	(12.421-15.958)		267579	62.1	
39 n-Octacosane	14.520	14.519	0.001	11534	NC	M
65 C29	14.893	14.896	-0.003	37349	NC	M
A 40 C24-C36	15.053	(12.872-17.233)		468085	74.7	
A 7 Motor Oil	15.053	(12.872-17.233)		468085	74.7	
A 50 C25-C36	15.270	(13.306-17.233)		454118	76.6	
A 10 C22-C40	15.363	(11.952-18.775)		465817	52.6	
A 41 C23-C40	15.598	(12.421-18.775)		719615	83.1	
A 8 C24-C40	15.823	(12.872-18.775)		709686	84.8	
56 Dotriacontane	16.037	15.958	0.079	53585	NC	M
A 51 C28-C40	16.647	(14.519-18.775)		616801	92.7	
A 63 C29-C40	16.835	(14.896-18.775)		578986	95.0	
42 n-Hexatriacontane	17.293	17.233	0.060	405329	NC	M
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

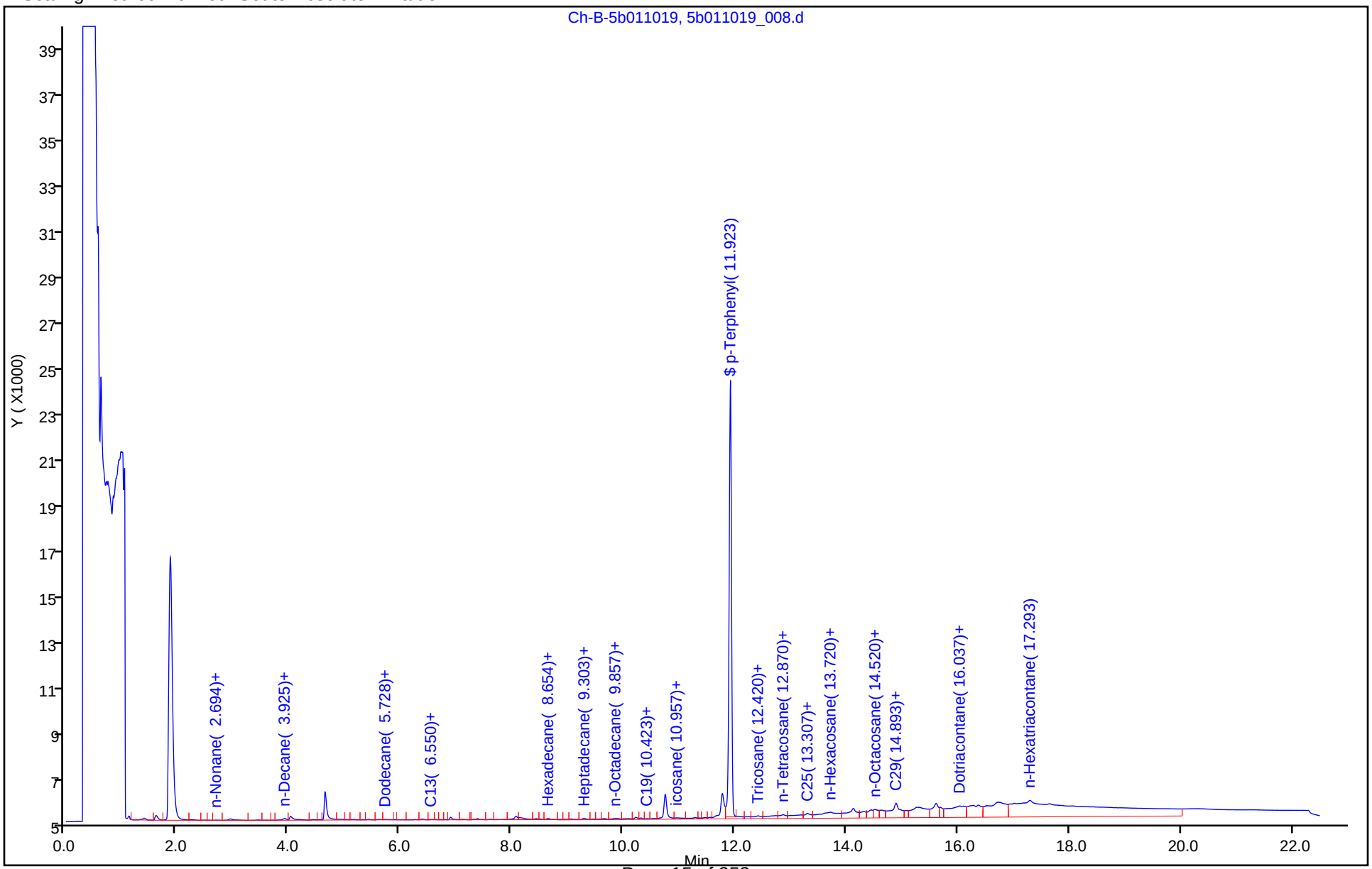
U - Marked Undetected

Report Date: 11-Jan-2019 13:34:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_008.d				
Injection Date:	10-Jan-2019 19:01:27	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-2-C	Lab Sample ID:	720-90640-2	Worklist Smp#:	8
Client ID:	DG-T5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_008.d				
Lims ID:	720-90640-E-2-C				
Client ID:	DG-T5S-3.5-4				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 19:01:27	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 136 Name: 720-0056024-008				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:34:58	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:34:58

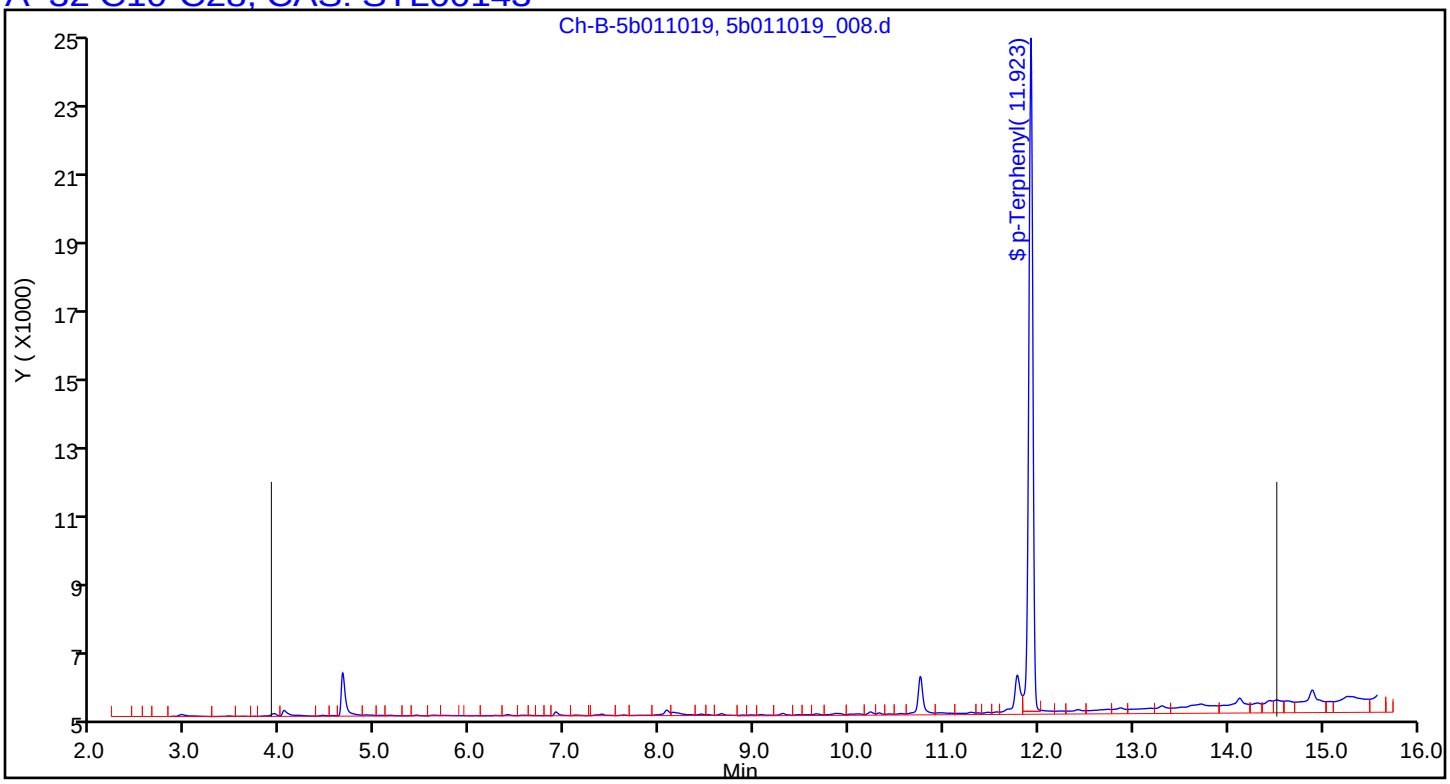
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.0	99.84

Report Date: 11-Jan-2019 13:35:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_008.d				
Injection Date:	10-Jan-2019 19:01:27	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-2-C	Lab Sample ID:	720-90640-2		
Client ID:	DG-T5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

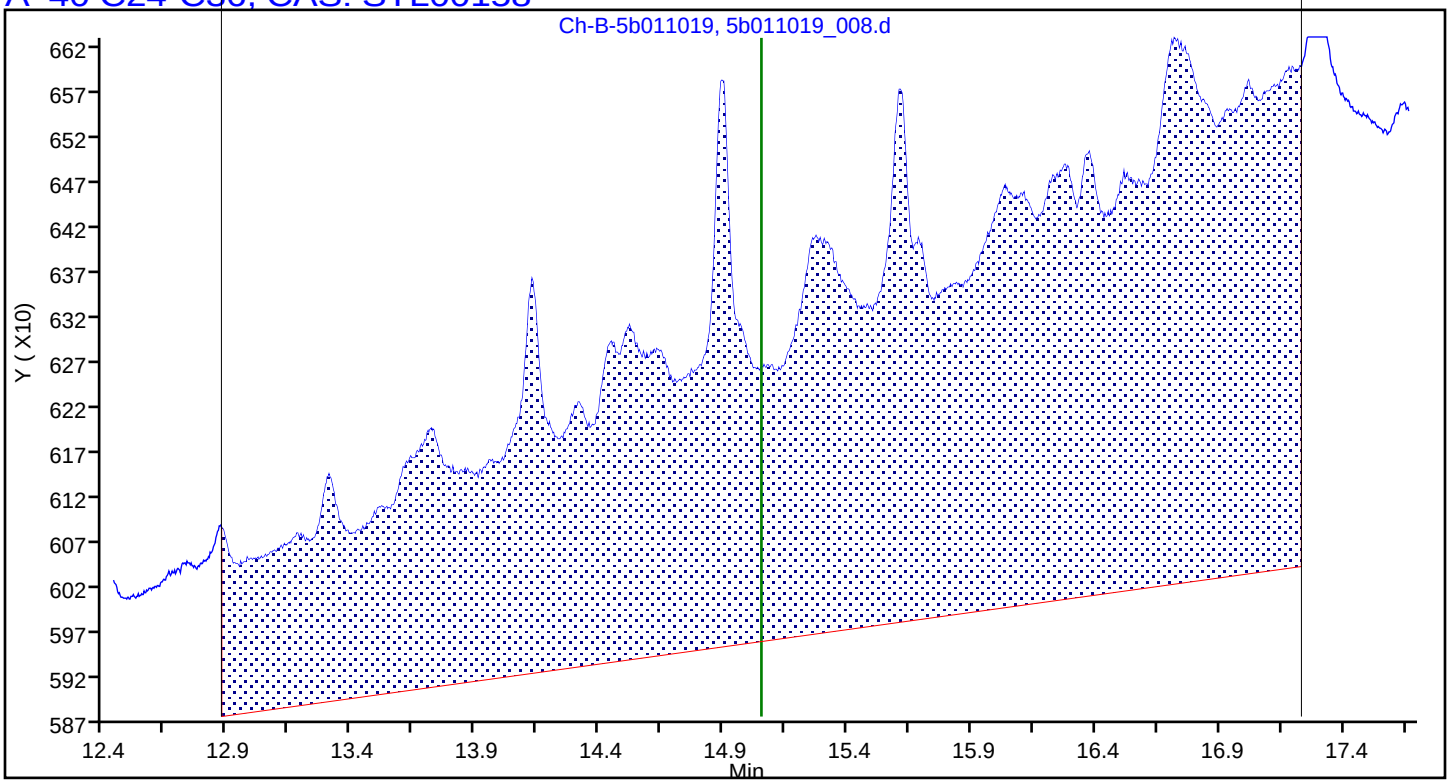


Report Date: 11-Jan-2019 13:35:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_008.d				
Injection Date:	10-Jan-2019 19:01:27	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-2-C	Lab Sample ID:	720-90640-2		
Client ID:	DG-T5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

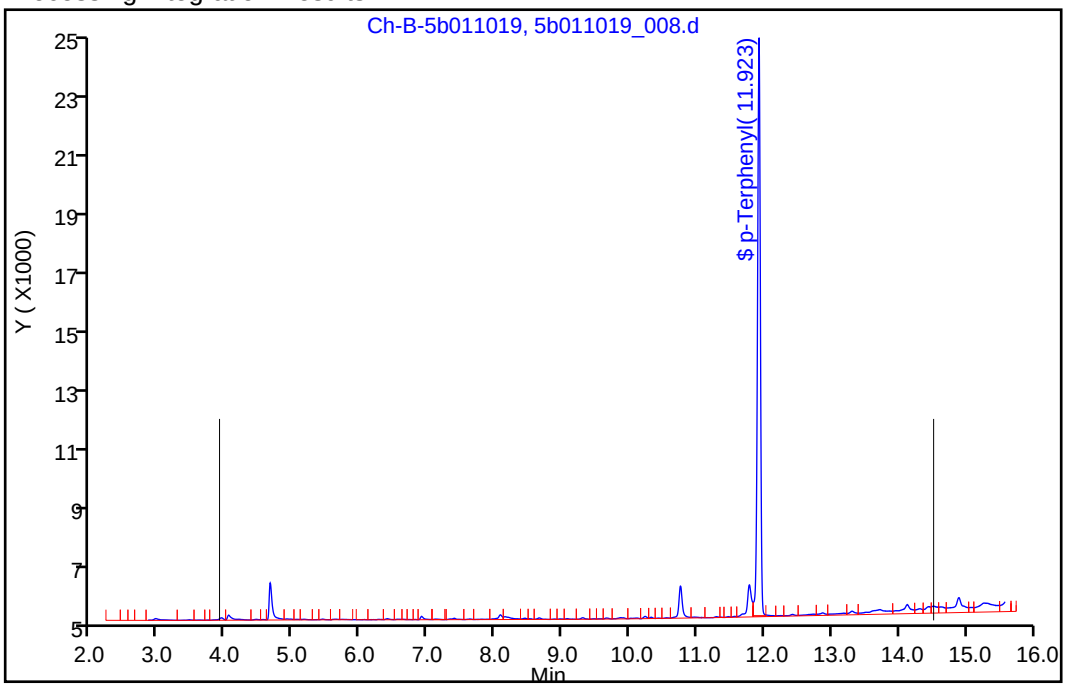
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_008.d				
Injection Date:	10-Jan-2019 19:01:27	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-2-C	Lab Sample ID:	720-90640-2		
Client ID:	DG-T5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.208, CAS: STL00143

Signal: 1

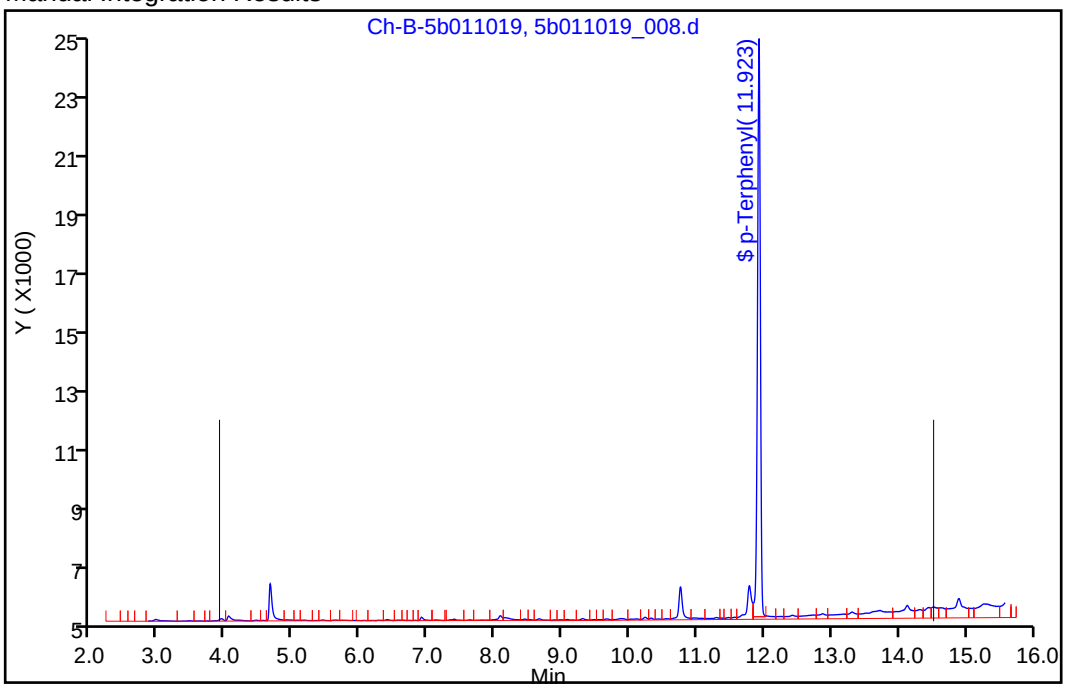
Processing Integration Results

RT: 9.21
Response: 157754
Amount: 16.067481



Manual Integration Results

RT: 9.21
Response: 254665
Amount: 25.938012



Reviewer: luj, 11-Jan-2019 13:34:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_013.d
Lims ID: 720-90640-E-3-B
Client ID: DG-V5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 21:27:57 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 102 Name: 720-0056024-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:41:57 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:41:57

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.677	2.681	-0.004	1204	NC	
	23 n-Decane	3.896	3.896	0.000	1840	NC	
A	1 C9-C13	4.633	(2.681-6.586)		64843	5.12	
A	21 Stoddard Solvent	4.633	(2.681-6.586)		64843	5.70	
A	57 C10-C12	4.842	(3.896-5.787)		31051	3.16	
	24 Dodecane	5.785	5.787	-0.002	3980	NC	
A	3 C9 - C17	5.985	(2.681-9.289)		323139	22.9	
A	47 C9 - C18	6.273	(2.681-9.866)		511277	45.5	
A	60 C10-C16	6.278	(3.896-8.659)		233067	18.7	
A	15 Kerosene	6.550	(2.681-10.419)		670999	59.6	
A	25 C9-C19	6.550	(2.681-10.419)		670999	47.4	
	26 C13	6.578	6.586	-0.008	4929	NC	
$	27 n-Decanoic Acid (Surr)		7.205			ND	U
A	59 C12-C16	7.223	(5.787-8.659)		205996	21.0	
A	62 C10-C20	7.424	(3.896-10.952)		909729	92.7	
A	28 C9-C24	7.776	(2.681-12.872)		2198588	223.9	
A	29 C9-C25	7.993	(2.681-13.306)		2422936	246.8	
A	54 C10-C23	8.159	(3.896-12.421)		1893668	192.9	
A	4 C10-C24	8.384	(3.896-12.872)		2187616	222.8	
A	16 C10-C25	8.601	(3.896-13.306)		2411964	245.7	
	45 Hexadecane	8.659	8.659	0.000	8087	NC	
A	14 C10-C26	8.811	(3.896-13.725)		2869558	292.3	
A	67 C12-C22	8.870	(5.787-11.952)		1412706	143.9	
A	5 Diesel	9.208	(3.896-14.519)		3594734	366.1	
A	32 C10-C28	9.208	(3.896-14.519)		3594734	366.1	
A	12 Unknown Hydrocarbons	9.208	(3.896-14.519)		3594734	NC	
A	30 C13-C22	9.269	(6.586-11.952)		1390835	141.7	
	44 Heptadecane	9.306	9.289	0.017	52943	NC	
A	31 C12-C24	9.330	(5.787-12.872)		2160545	220.1	
	49 n-Octadecane	9.865	9.866	-0.001	51414	NC	
A	52 Mineral oil	9.957	(2.681-17.233)		8265493	760.8	
A	9 Crude Oil Range Organics (	10.023	(2.813-17.233)		8264822	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		7907038	NC	
33 C19	10.417	10.419	-0.002	83457	NC	
A 64 C13-C28	10.552	(6.586-14.519)		3545792	361.1	
A 17 C10-C36	10.623	(4.013-17.233)		7894226	804.0	
A 13 C9-C40	10.728	(2.681-18.775)		9758373	965.2	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		9758373	NC	
A 58 C16-C24	10.766	(8.659-12.872)		1962636	199.9	
61 icosane	10.952	10.952	0.000	61041	NC	
A 6 C10-C40	11.335	(3.896-18.775)		9744367	965.0	
$ 34 p-Terphenyl	11.920	11.923	-0.003	206569	18.3	
35 n-Docosane	12.043	11.952	0.091	55212	NC	
A 18 C12-C40	12.281	(5.787-18.775)		9693055	963.0	
36 Tricosane	12.417	12.421	-0.004	126843	NC	
A 66 C13-C40	12.680	(6.586-18.775)		9193381	926.9	
37 n-Tetracosane	12.871	12.872	-0.001	123059	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		6111963	828.3	
38 C25	13.308	13.306	0.002	123896	NC	
A 19 C16-C40	13.717	(8.659-18.775)		9413662	940.5	
46 n-Hexacosane	13.724	13.725	-0.001	119451	NC	
A 20 C19-C36	13.826	(10.419-17.233)		6331884	812.0	
A 55 C23-C32	14.189	(12.421-15.958)		3723635	864.5	
39 n-Octacosane	14.524	14.519	0.005	119374	NC	
65 C29	14.897	14.896	0.001	291760	NC	
A 40 C24-C36	15.053	(12.872-17.233)		5395603	861.0	M
A 7 Motor Oil	15.053	(12.872-17.233)		5326880	850.0	
A 50 C25-C36	15.270	(13.306-17.233)		5014356	846.1	
A 10 C22-C40	15.363	(11.952-18.775)		7042927	794.6	
A 41 C23-C40	15.598	(12.421-18.775)		6953032	803.2	
A 8 C24-C40	15.823	(12.872-18.775)		6655519	795.4	
56 Dotriacontane	15.965	15.958	0.007	334030	NC	
A 51 C28-C40	16.647	(14.519-18.775)		5218332	784.4	
A 63 C29-C40	16.835	(14.896-18.775)		4750340	779.2	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

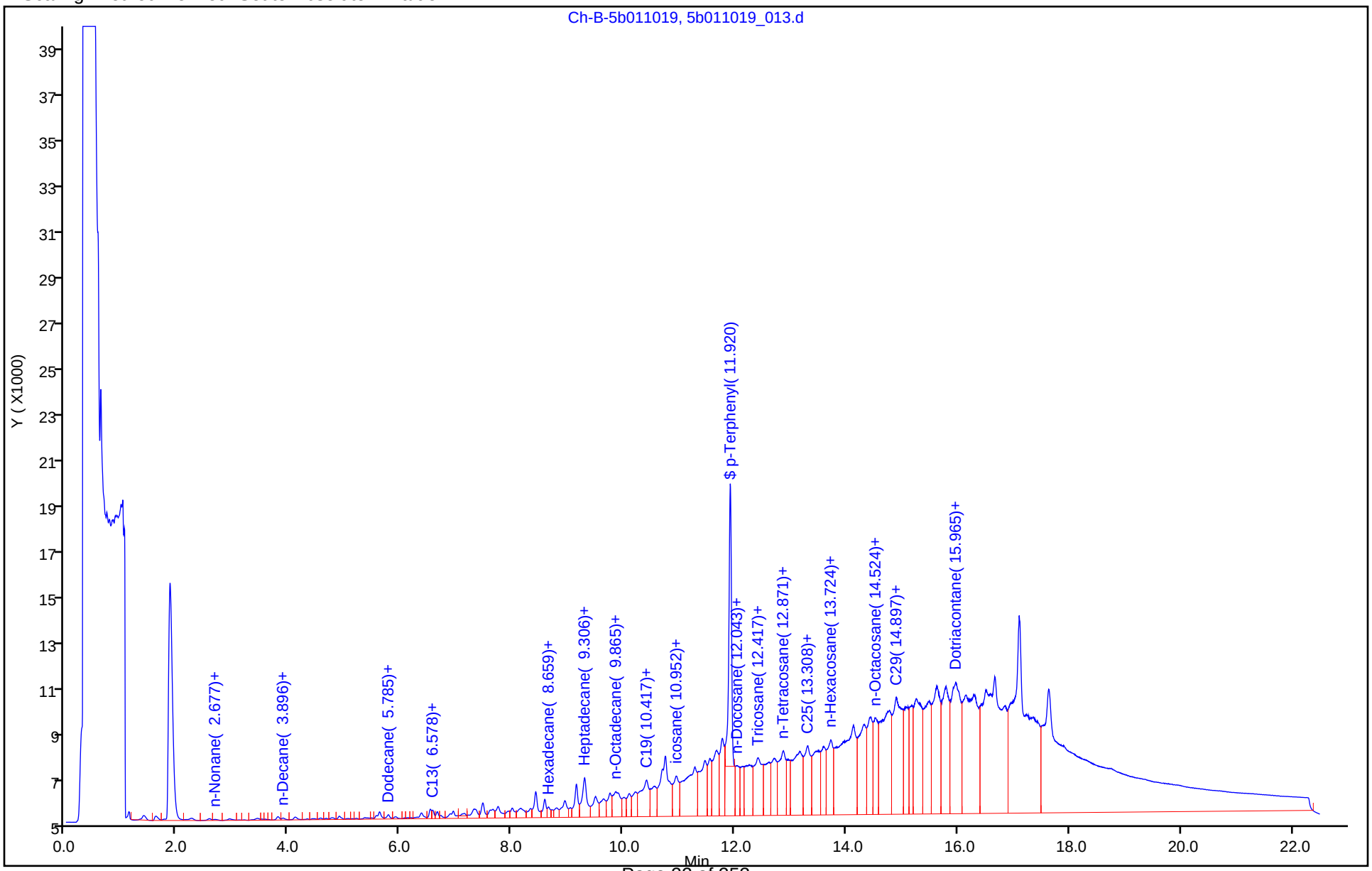
U - Marked Undetected

Report Date: 11-Jan-2019 13:41:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_013.d				
Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-3-B	Lab Sample ID:	720-90640-3	Worklist Smp#:	13
Client ID:	DG-V5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_013.d				
Lims ID:	720-90640-E-3-B				
Client ID:	DG-V5S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 21:27:57	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 102 Name: 720-0056024-013				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:41:57	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:41:57

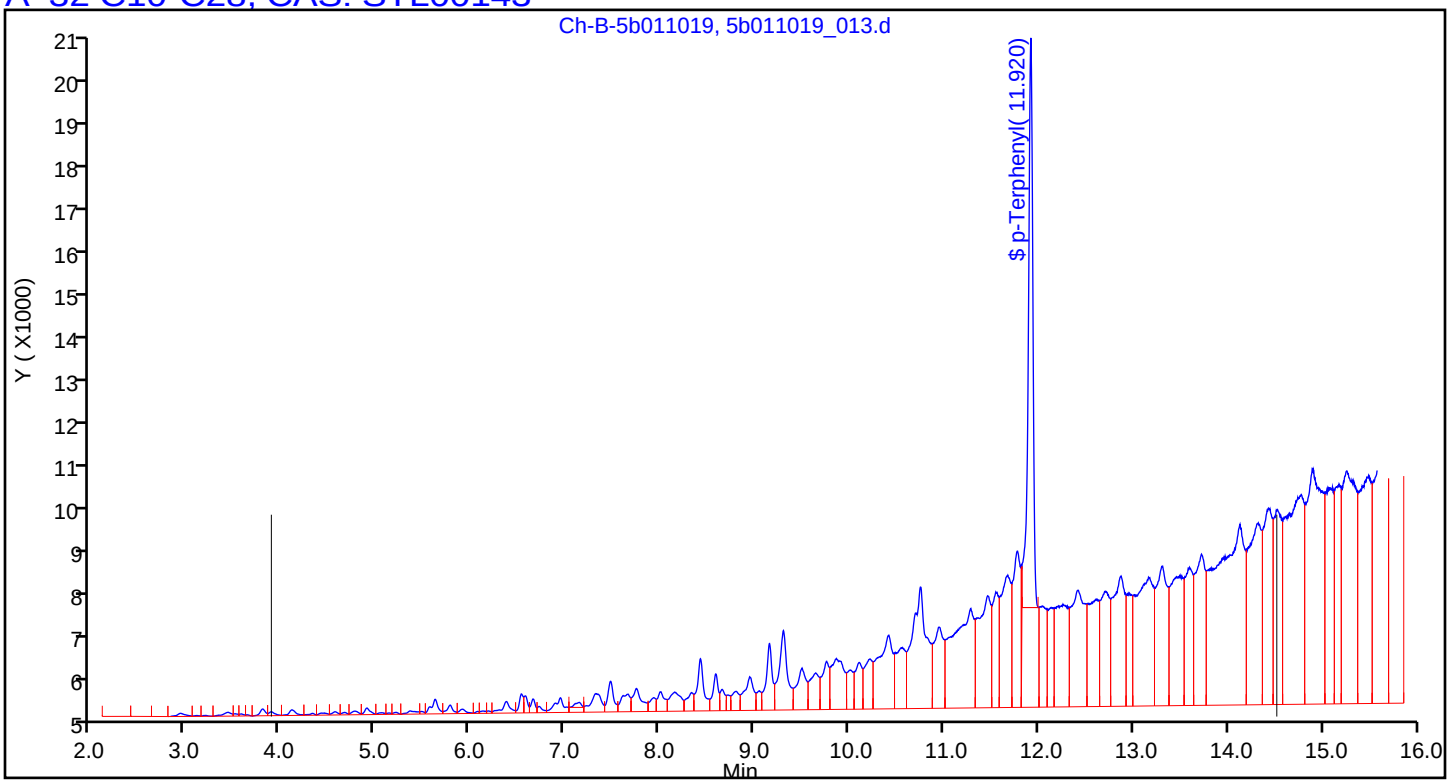
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	18.3	73.34

Report Date: 11-Jan-2019 13:41:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_013.d				
Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-3-B	Lab Sample ID:	720-90640-3		
Client ID:	DG-V5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

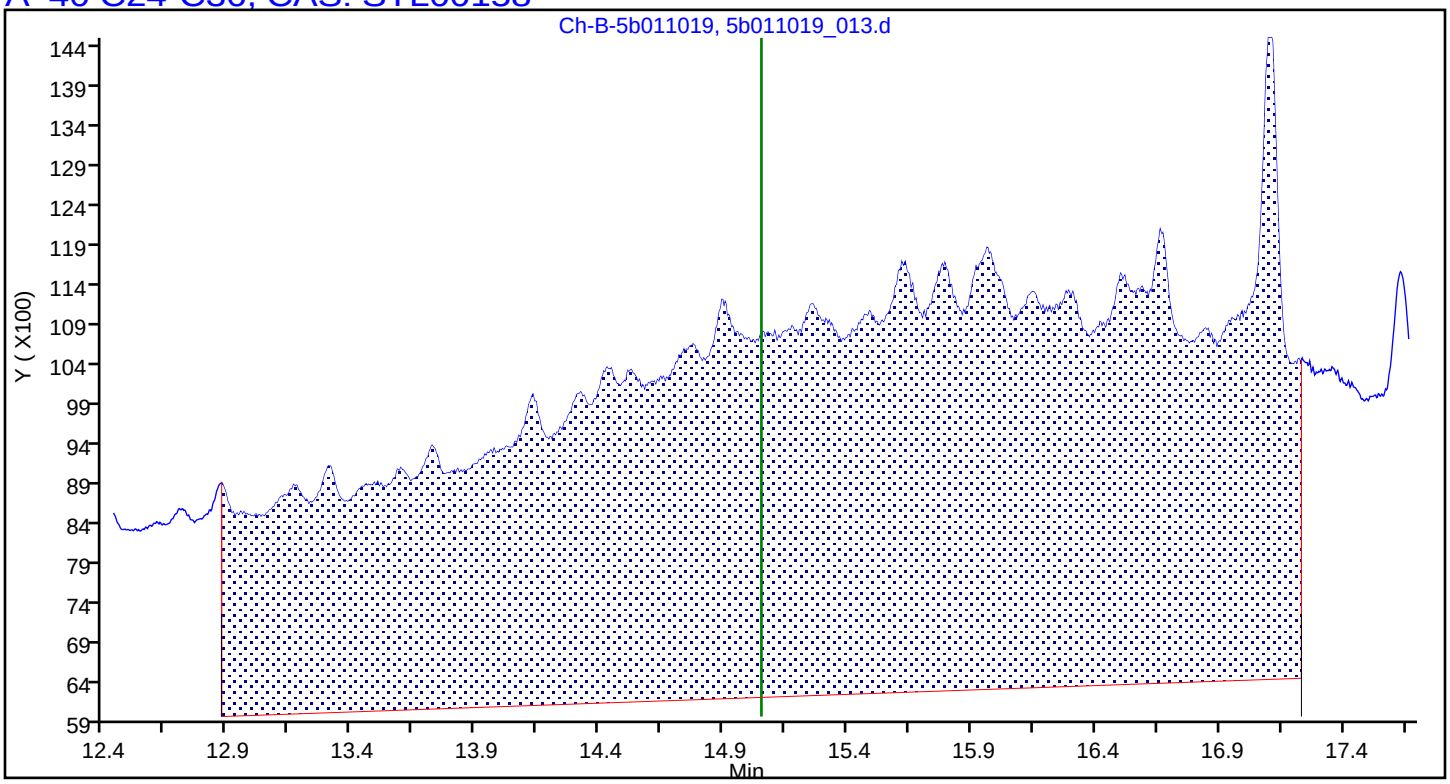


Report Date: 11-Jan-2019 13:41:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_013.d				
Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-3-B	Lab Sample ID:	720-90640-3		
Client ID:	DG-V5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

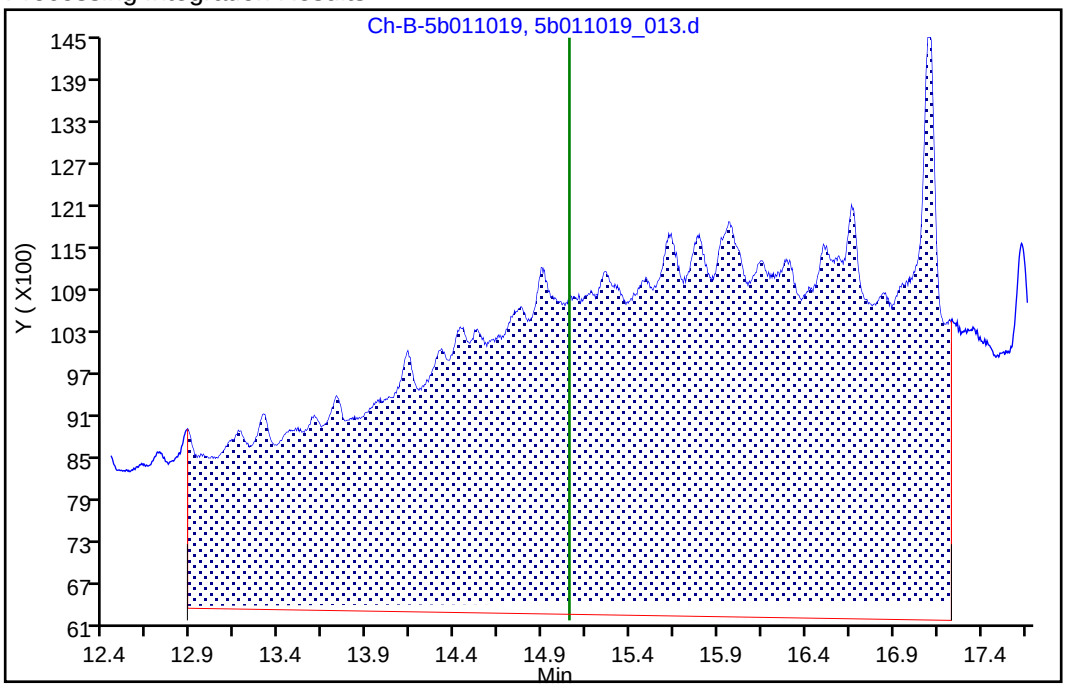
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_013.d				
Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-3-B	Lab Sample ID:	720-90640-3		
Client ID:	DG-V5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.053, CAS: STL00158

Signal: 1

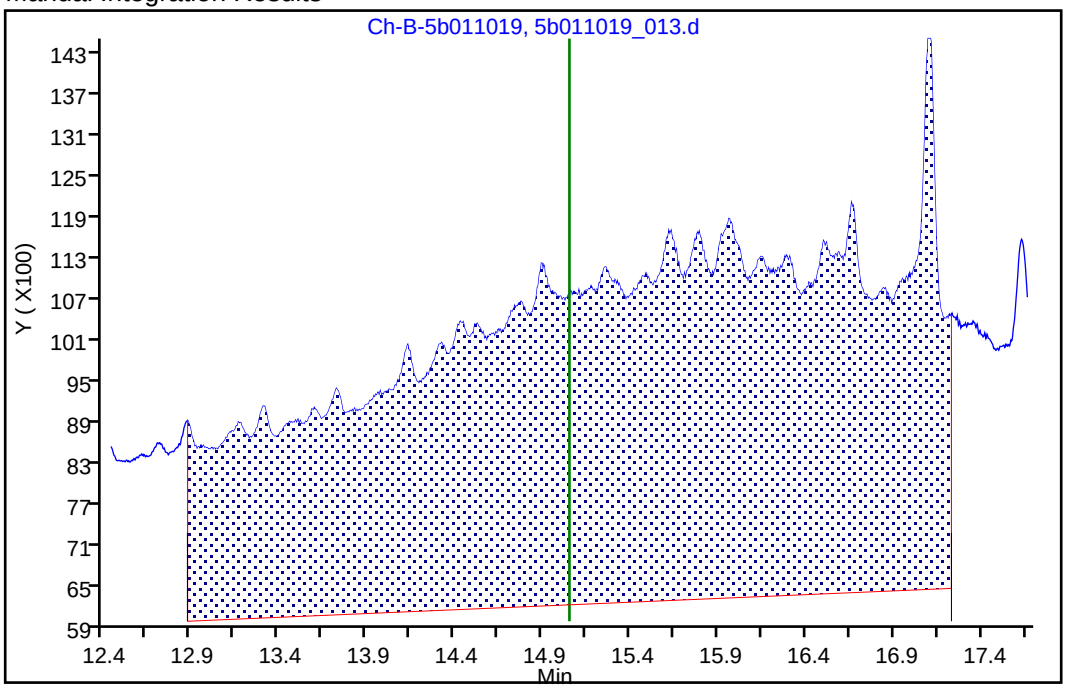
Processing Integration Results

RT: 15.05
Response: 5326880
Amount: 850.0305



Manual Integration Results

RT: 15.05
Response: 5395603
Amount: 860.9969



Reviewer: luj, 11-Jan-2019 13:41:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_011.d
Lims ID: 720-90640-E-4-B
Client ID: DG-V5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 20:29:17 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 140 Name: 720-0056024-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:40:39 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:40:39

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.702	2.681	0.021	55	NC	
23 n-Decane	3.924	3.896	0.028	613	NC	
A 1 C9-C13	4.633	(2.681-6.586)		8924	0.7046	
A 21 Stoddard Solvent	4.633	(2.681-6.586)		8924	0.7850	
A 57 C10-C12	4.842	(3.896-5.787)		5311	0.5409	
24 Dodecane	5.723	5.787	-0.064	522	NC	
A 3 C9 - C17	5.985	(2.681-9.289)		18569	1.31	
A 47 C9 - C18	6.273	(2.681-9.866)		20286	1.81	
A 60 C10-C16	6.278	(3.896-8.659)		15747	1.26	
A 15 Kerosene	6.550	(2.681-10.419)		23110	2.05	
A 25 C9-C19	6.550	(2.681-10.419)		23110	1.63	
26 C13	6.544	6.586	-0.042	346	NC	
$ 27 n-Decanoic Acid (Surr)		7.205			ND	U
A 59 C12-C16	7.223	(5.787-8.659)		10958	1.12	
A 62 C10-C20	7.424	(3.896-10.952)		29832	3.04	
A 28 C9-C24	7.776	(2.681-12.872)		64030	6.52	
A 29 C9-C25	7.993	(2.681-13.306)		70835	7.21	
A 54 C10-C23	8.159	(3.896-12.421)		50831	5.18	
A 4 C10-C24	8.384	(3.896-12.872)		62046	6.32	
A 16 C10-C25	8.601	(3.896-13.306)		68851	7.01	
45 Hexadecane	8.650	8.659	-0.009	759	NC	
A 14 C10-C26	8.811	(3.896-13.725)		74903	7.63	
A 67 C12-C22	8.870	(5.787-11.952)		35508	3.62	
A 5 Diesel	9.208	(3.896-14.519)		125380	12.8	
A 32 C10-C28	9.208	(3.896-14.519)		125380	12.8	
A 12 Unknown Hydrocarbons	9.208	(3.896-14.519)		125380	NC	
A 30 C13-C22	9.269	(6.586-11.952)		33703	3.43	
44 Heptadecane	9.306	9.289	0.017	779	NC	
A 31 C12-C24	9.330	(5.787-12.872)		57257	5.83	
49 n-Octadecane	9.908	9.866	0.042	618	NC	
A 52 Mineral oil	9.957	(2.681-17.233)		740184	68.1	
A 9 Crude Oil Range Organics (	9.339	(2.681-15.997)		501109	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		317173	NC	
33 C19	10.422	10.419	0.003	198	NC	
A 64 C13-C28	10.552	(6.586-14.519)		118786	12.1	
A 17 C10-C36	9.947	(3.896-15.997)		315189	32.1	
A 13 C9-C40	10.728	(2.681-18.775)		1048552	103.7	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		1048552	NC	
A 58 C16-C24	10.766	(8.659-12.872)		47058	4.79	
61 icosane	10.965	10.952	0.013	851	NC	
A 6 C10-C40	11.335	(3.896-18.775)		1045579	103.5	
$ 34 p-Terphenyl	11.923	11.923	0.000	267714	23.8	
35 n-Docosane		11.952			ND	
A 18 C12-C40	12.281	(5.787-18.775)		1036607	103.0	
36 Tricosane	12.421	12.421	0.000	2898	NC	
A 66 C13-C40	12.680	(6.586-18.775)		992143	100.0	
37 n-Tetracosane	12.871	12.872	-0.001	8317	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		641836	87.0	
38 C25	13.307	13.306	0.001	6052	NC	
A 19 C16-C40	13.717	(8.659-18.775)		1014529	101.4	
46 n-Hexacosane	13.725	13.725	0.000	17189	NC	
A 20 C19-C36	13.826	(10.419-17.233)		396179	50.8	
A 55 C23-C32	14.189	(12.421-15.958)		264526	61.4	
39 n-Octacosane	14.520	14.519	0.001	18534	NC	
65 C29	14.896	14.896	0.000	16800	NC	
A 40 C24-C36	15.053	(12.872-17.233)		464666	74.1	
A 7 Motor Oil	15.053	(12.872-17.233)		464666	74.1	
A 50 C25-C36	15.270	(13.306-17.233)		455169	76.8	
A 10 C22-C40	15.363	(11.952-18.775)		489843	55.3	
A 41 C23-C40	15.598	(12.421-18.775)		730761	84.4	
A 8 C24-C40	15.823	(12.872-18.775)		725910	86.8	
56 Dotriacontane	15.949	15.958	-0.009	18689	NC	
A 51 C28-C40	16.647	(14.519-18.775)		648080	97.4	
A 63 C29-C40	16.835	(14.896-18.775)		608048	99.7	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

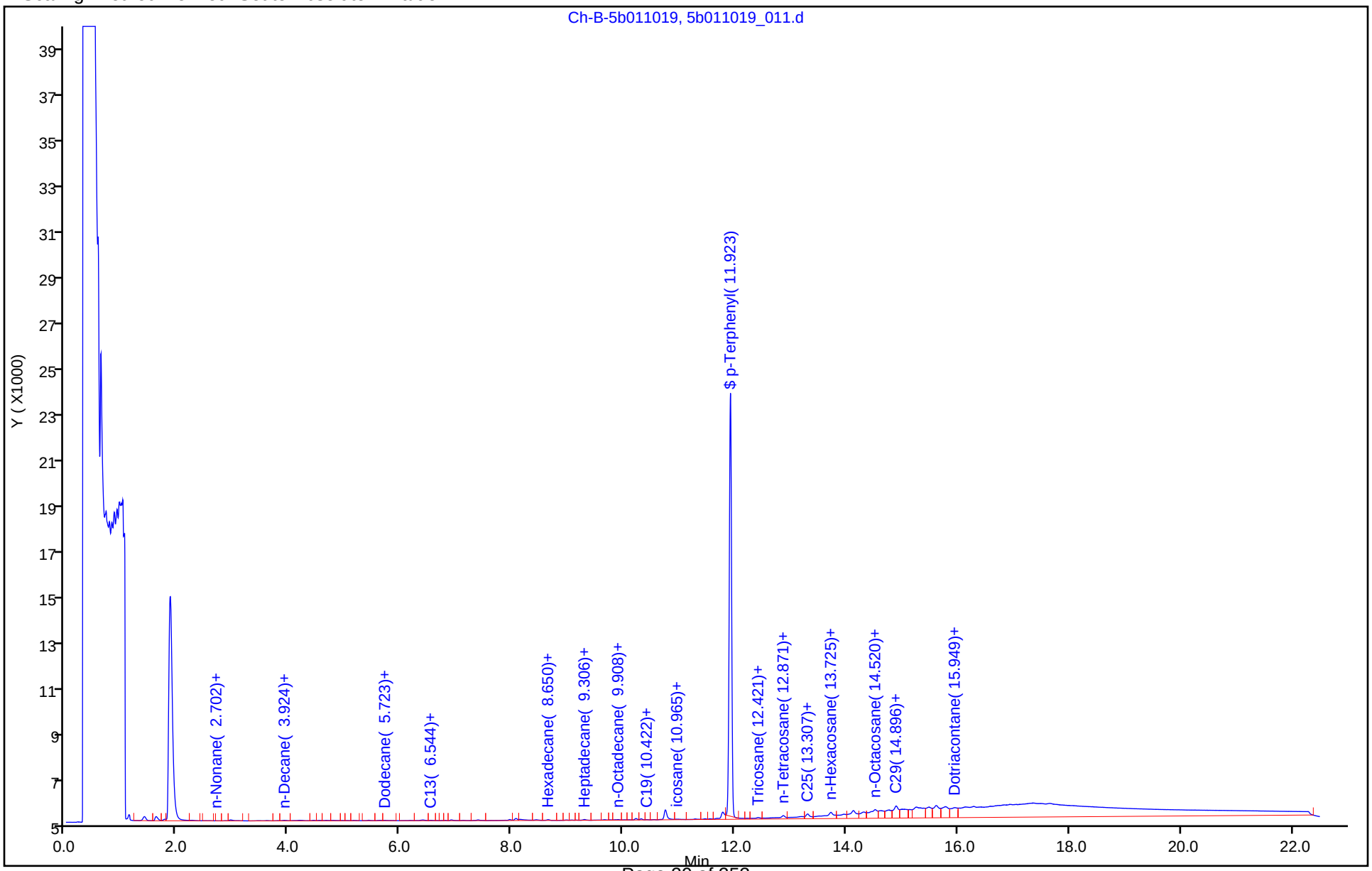
U - Marked Undetected

Report Date: 11-Jan-2019 13:40:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_011.d				
Injection Date:	10-Jan-2019 20:29:17	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-4-B	Lab Sample ID:	720-90640-4	Worklist Smp#:	11
Client ID:	DG-V5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_011.d				
Lims ID:	720-90640-E-4-B				
Client ID:	DG-V5S-3.5-4				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 20:29:17	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 140 Name: 720-0056024-011				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:40:39	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:40:39

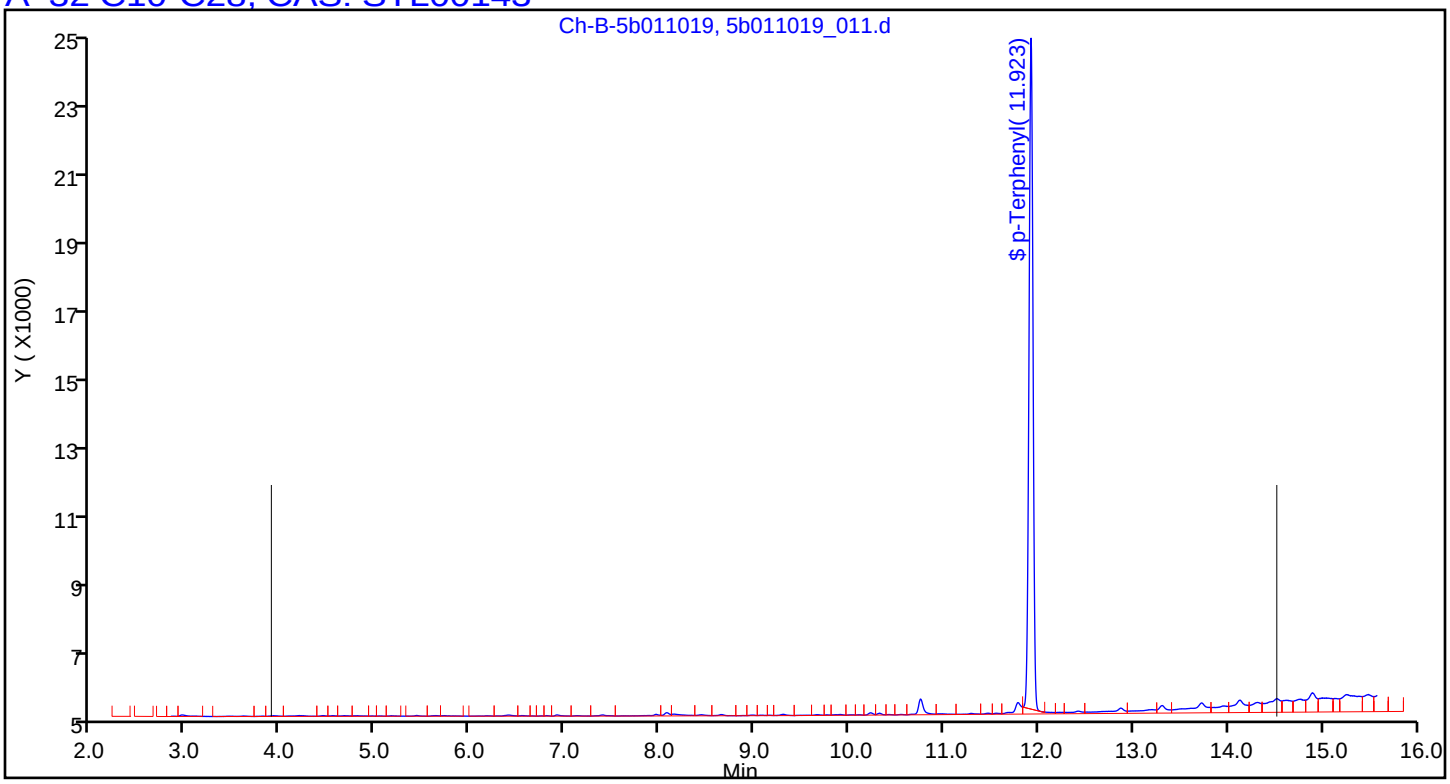
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.8	95.05

Report Date: 11-Jan-2019 13:40:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_011.d				
Injection Date:	10-Jan-2019 20:29:17	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-4-B	Lab Sample ID:	720-90640-4		
Client ID:	DG-V5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

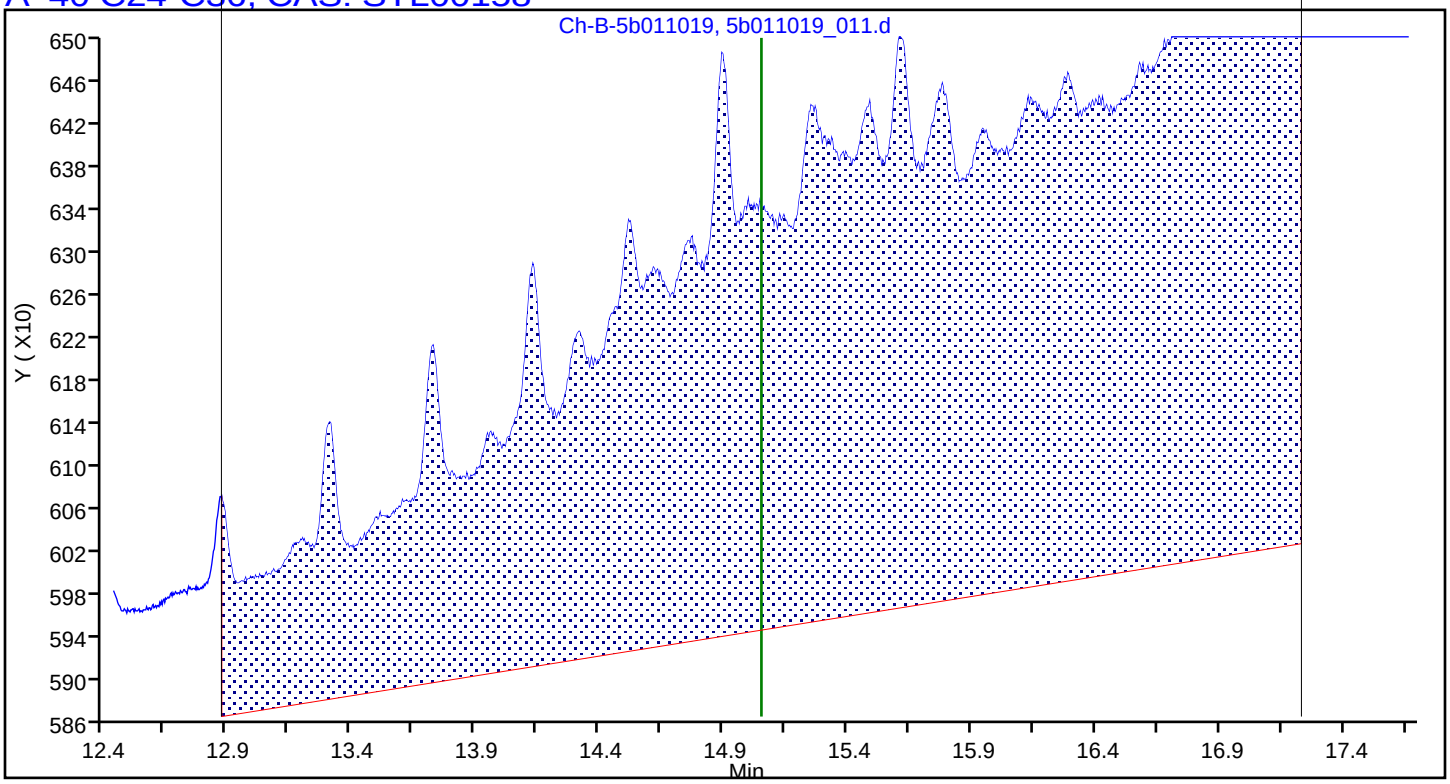


Report Date: 11-Jan-2019 13:40:41 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_011.d				
Injection Date:	10-Jan-2019 20:29:17	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-4-B	Lab Sample ID:	720-90640-4		
Client ID:	DG-V5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_009.d
Lims ID: 720-90640-E-5-B
Client ID: DG-V5S-7.5-8
Sample Type: Client
Inject. Date: 10-Jan-2019 19:30:41 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0056024-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:37:35 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:37:35

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.696	2.681	0.015	264	NC	
	23 n-Decane	3.913	3.896	0.017	636	NC	
A	1 C9-C13	4.633	(2.681-6.586)		11288	0.8912	
A	21 Stoddard Solvent	4.633	(2.681-6.586)		11288	0.99	
A	57 C10-C12	4.842	(3.896-5.787)		7246	0.7380	
	24 Dodecane	5.739	5.787	-0.048	497	NC	
A	3 C9 - C17	5.985	(2.681-9.289)		21011	1.49	
A	47 C9 - C18	6.273	(2.681-9.866)		22377	1.99	
A	60 C10-C16	6.278	(3.896-8.659)		17146	1.37	
A	15 Kerosene	6.550	(2.681-10.419)		24626	2.19	
A	25 C9-C19	6.550	(2.681-10.419)		24626	1.74	
	26 C13	6.544	6.586	-0.042	610	NC	
$	27 n-Decanoic Acid (Surr)		7.205			ND	U
A	59 C12-C16	7.223	(5.787-8.659)		10397	1.06	
A	62 C10-C20	7.424	(3.896-10.952)		36945	3.76	
A	28 C9-C24	7.776	(2.681-12.872)		60047	6.12	
A	29 C9-C25	7.993	(2.681-13.306)		60779	6.19	
A	54 C10-C23	8.159	(3.896-12.421)		56277	5.73	
A	4 C10-C24	8.384	(3.896-12.872)		57668	5.87	
A	16 C10-C25	8.601	(3.896-13.306)		58400	5.95	
	45 Hexadecane	8.660	8.659	0.001	624	NC	
A	14 C10-C26	8.811	(3.896-13.725)		63422	6.46	
A	67 C12-C22	8.870	(5.787-11.952)		43004	4.38	
A	5 Diesel	9.208	(3.896-14.519)		72596	7.39	
A	32 C10-C28	9.208	(3.896-14.519)		72596	7.39	
A	12 Unknown Hydrocarbons	9.208	(3.896-14.519)		72596	NC	
A	30 C13-C22	9.269	(6.586-11.952)		41454	4.22	
	44 Heptadecane	9.301	9.289	0.012	609	NC	
A	31 C12-C24	9.330	(5.787-12.872)		50919	5.19	
	49 n-Octadecane	9.906	9.866	0.040	444	NC	
A	52 Mineral oil	9.957	(2.681-17.233)		473591	43.6	
A	9 Crude Oil Range Organics (	9.570	(2.681-16.460)		368264	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		165603	NC	
33 C19	10.427	10.419	0.008	190	NC	
A 64 C13-C28	10.552	(6.586-14.519)		64297	6.55	
A 17 C10-C36	10.178	(3.896-16.460)		163224	16.6	
A 13 C9-C40	10.728	(2.681-18.775)		693751	68.6	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		693751	NC	
A 58 C16-C24	10.766	(8.659-12.872)		40522	4.13	
61 icosane		10.952			ND	
A 6 C10-C40	11.335	(3.896-18.775)		689835	68.3	
$ 34 p-Terphenyl	11.923	11.923	0.000	285398	25.3	
35 n-Docosane		11.952			ND	
A 18 C12-C40	12.281	(5.787-18.775)		677695	67.3	
36 Tricosane	12.423	12.421	0.002	359	NC	
A 66 C13-C40	12.680	(6.586-18.775)		632377	63.8	
37 n-Tetracosane	12.872	12.872	0.000	617	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		381548	51.7	
38 C25	13.307	13.306	0.001	1077	NC	
A 19 C16-C40	13.717	(8.659-18.775)		654455	65.4	
46 n-Hexacosane	13.720	13.725	-0.005	3238	NC	
A 20 C19-C36	13.826	(10.419-17.233)		274567	35.2	
A 55 C23-C32	14.189	(12.421-15.958)		80688	18.7	
39 n-Octacosane	14.524	14.519	0.005	1688	NC	
65 C29	14.894	14.896	-0.002	10581	NC	
A 40 C24-C36	15.053	(12.872-17.233)		203405	32.5	
A 7 Motor Oil	15.053	(12.872-17.233)		203405	32.5	
A 50 C25-C36	15.270	(13.306-17.233)		203461	34.3	
A 10 C22-C40	15.363	(11.952-18.775)		113737	12.8	
A 41 C23-C40	15.598	(12.421-18.775)		374909	43.3	
A 8 C24-C40	15.823	(12.872-18.775)		376441	45.0	
56 Dotriacontane		15.958			ND	
A 51 C28-C40	16.647	(14.519-18.775)		360730	54.2	
A 63 C29-C40	16.835	(14.896-18.775)		348618	57.2	
42 n-Hexatriacontane	17.264	17.233	0.031	158937	NC	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

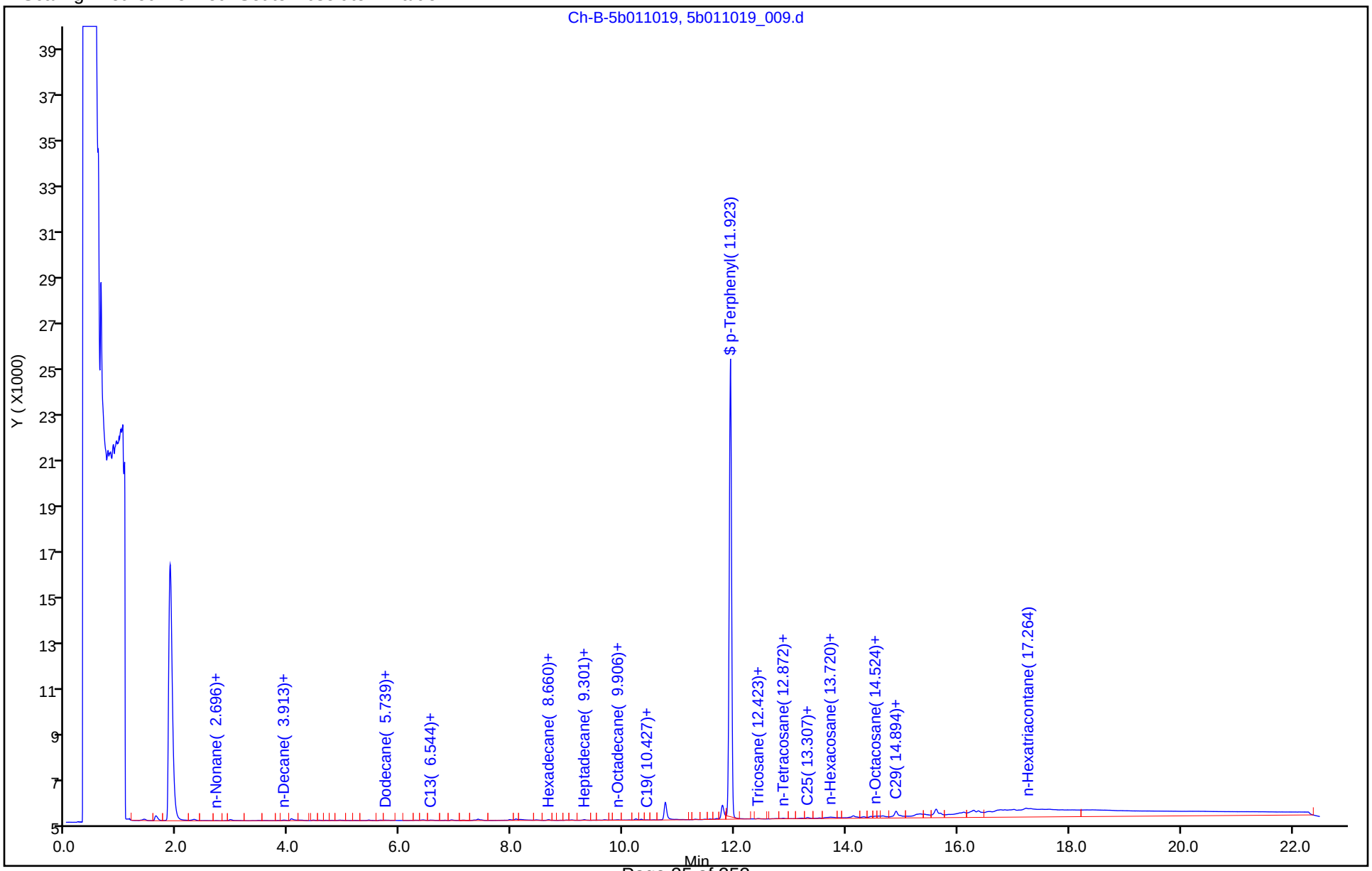
Report Date: 11-Jan-2019 13:37:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_009.d

Injection Date:	10-Jan-2019 19:30:41	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-5-B	Lab Sample ID:	720-90640-5	Worklist Smp#:	9
Client ID:	DG-V5S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_009.d
Lims ID: 720-90640-E-5-B
Client ID: DG-V5S-7.5-8
Sample Type: Client
Inject. Date: 10-Jan-2019 19:30:41 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0056024-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:37:35 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:37:35

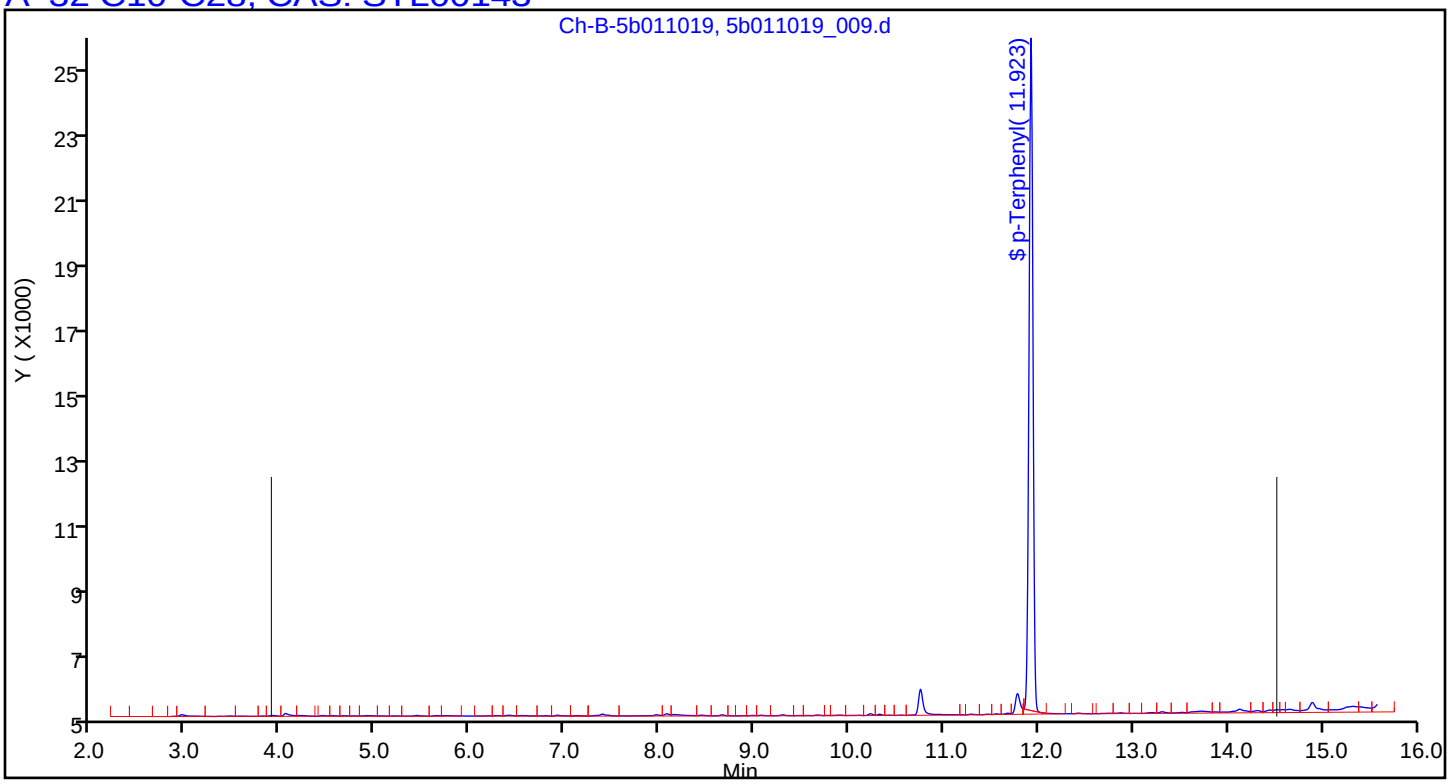
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.3	101.33

Report Date: 11-Jan-2019 13:37:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_009.d				
Injection Date:	10-Jan-2019 19:30:41	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-5-B	Lab Sample ID:	720-90640-5		
Client ID:	DG-V5S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

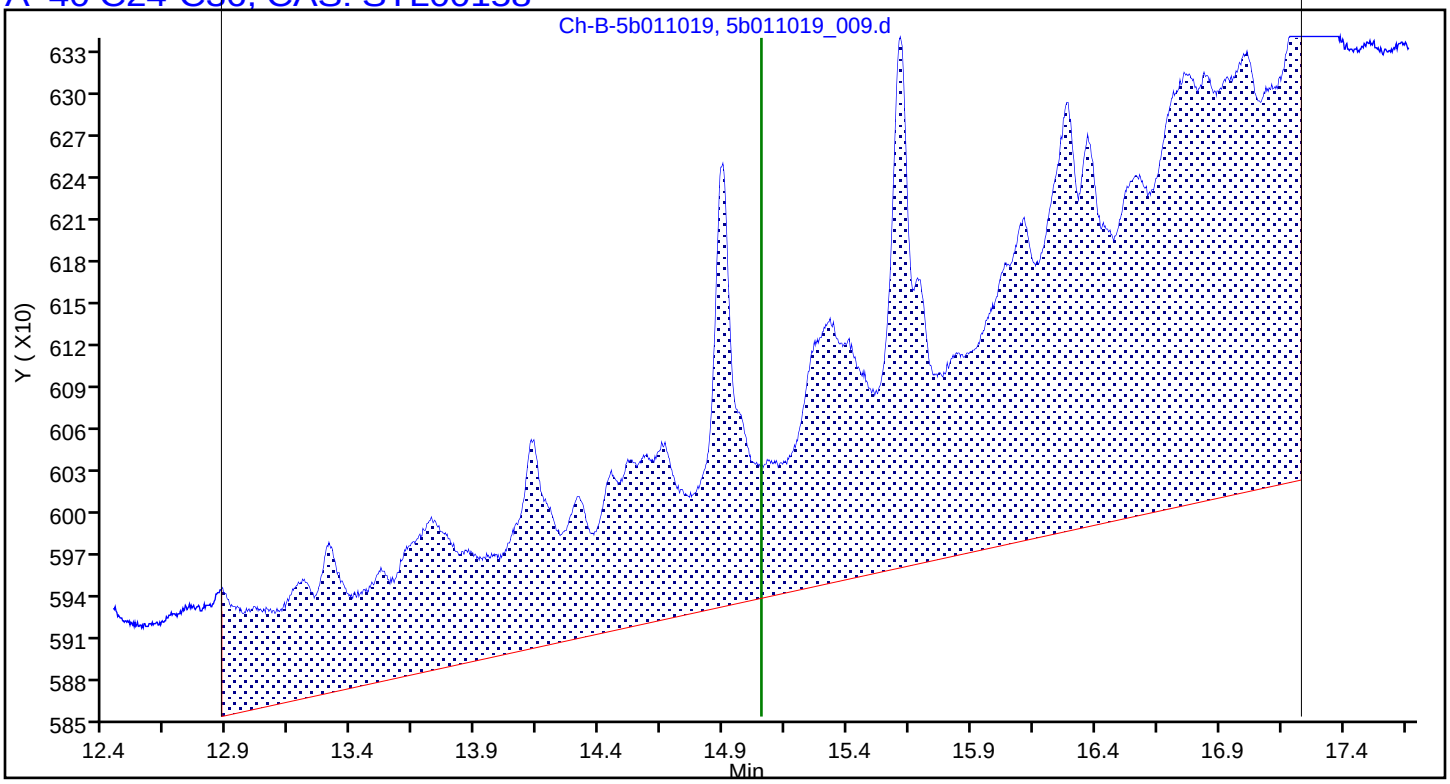


Report Date: 11-Jan-2019 13:37:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_009.d				
Injection Date:	10-Jan-2019 19:30:41	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-5-B	Lab Sample ID:	720-90640-5		
Client ID:	DG-V5S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_015.d
Lims ID: 720-90640-E-6-B
Client ID: DG-X5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 22:26:13 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 104 Name: 720-0056024-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:43:43 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:43:43

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.678	2.681	-0.003	1630	NC	
23 n-Decane	3.896	3.896	0.000	3516	NC	
A 1 C9-C13	4.633	(2.681-6.586)		150536	11.9	
A 21 Stoddard Solvent	4.633	(2.681-6.586)		150536	13.2	
A 57 C10-C12	4.842	(3.896-5.787)		73634	7.50	
24 Dodecane	5.785	5.787	-0.002	9821	NC	
A 3 C9 - C17	5.985	(2.681-9.289)		650889	46.1	
A 47 C9 - C18	6.273	(2.681-9.866)		954642	85.0	
A 60 C10-C16	6.278	(3.896-8.659)		498035	39.9	
A 15 Kerosene	6.550	(2.681-10.419)		1184874	105.3	
A 25 C9-C19	6.550	(2.681-10.419)		1184874	83.7	
26 C13	6.576	6.586	-0.010	9288	NC	
$ 27 n-Decanoic Acid (Surr)		7.205			ND	U
A 59 C12-C16	7.223	(5.787-8.659)		434222	44.2	
A 62 C10-C20	7.424	(3.896-10.952)		1424416	145.1	
A 28 C9-C24	7.776	(2.681-12.872)		3287881	334.9	
A 29 C9-C25	7.993	(2.681-13.306)		3859698	393.1	
A 54 C10-C23	8.159	(3.896-12.421)		2966183	302.1	
A 4 C10-C24	8.384	(3.896-12.872)		3267873	332.8	
A 16 C10-C25	8.601	(3.896-13.306)		3839690	391.1	
45 Hexadecane	8.658	8.659	-0.001	22143	NC	
A 14 C10-C26	8.811	(3.896-13.725)		4350414	443.1	
A 67 C12-C22	8.870	(5.787-11.952)		2217876	225.9	
A 5 Diesel	9.208	(3.896-14.519)		5783354	589.0	
A 32 C10-C28	9.208	(3.896-14.519)		5783354	589.0	
A 12 Unknown Hydrocarbons	9.208	(3.896-14.519)		5783354	NC	
A 30 C13-C22	9.269	(6.586-11.952)		2160449	220.0	
44 Heptadecane	9.307	9.289	0.018	95090	NC	
A 31 C12-C24	9.330	(5.787-12.872)		3204060	326.3	
49 n-Octadecane	9.865	9.866	-0.001	70700	NC	
A 52 Mineral oil	9.957	(2.681-17.233)		12885820	1186.1	
A 9 Crude Oil Range Organics (	10.033	(2.833-17.233)		12884946	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		15369624	NC	
33 C19	10.417	10.419	-0.002	110176	NC	
A 64 C13-C28	10.552	(6.586-14.519)		5662114	576.7	
A 17 C10-C36	10.633	(4.033-17.233)		15346100	1563.0	
A 13 C9-C40	10.728	(2.681-18.775)		14846494	1468.4	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		14846494	NC	
A 58 C16-C24	10.766	(8.659-12.872)		2791981	284.4	
61 icosane	10.954	10.952	0.002	85895	NC	
A 6 C10-C40	11.335	(3.896-18.775)		14822282	1467.9	
$ 34 p-Terphenyl	11.920	11.923	-0.003	204125	18.1	
35 n-Docosane	12.052	11.952	0.100	106175	NC	
A 18 C12-C40	12.281	(5.787-18.775)		14729001	1463.3	
36 Tricosane	12.421	12.421	0.000	174335	NC	
A 66 C13-C40	12.680	(6.586-18.775)		13799346	1391.3	
37 n-Tetracosane	12.873	12.872	0.001	217433	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		9764505	1323.4	
38 C25	13.309	13.306	0.003	173843	NC	
A 19 C16-C40	13.717	(8.659-18.775)		14233854	1422.1	
46 n-Hexacosane	13.727	13.725	0.002	221137	NC	
A 20 C19-C36	13.826	(10.419-17.233)		10188078	1306.6	
A 55 C23-C32	14.189	(12.421-15.958)		6244049	1449.6	
39 n-Octacosane	14.530	14.519	0.011	145477	NC	
65 C29	14.904	14.896	0.008	721656	NC	
A 40 C24-C36	15.053	(12.872-17.233)		8841066	1410.8	M
A 7 Motor Oil	15.053	(12.872-17.233)		8505962	1357.3	
A 50 C25-C36	15.270	(13.306-17.233)		8010621	1351.6	
A 10 C22-C40	15.363	(11.952-18.775)		10957017	1236.2	
A 41 C23-C40	15.598	(12.421-18.775)		10706485	1236.8	
A 8 C24-C40	15.823	(12.872-18.775)		10240718	1223.8	
56 Dotriacontane	15.979	15.958	0.021	606974	NC	
A 51 C28-C40	16.647	(14.519-18.775)		7924870	1191.2	
A 63 C29-C40	16.835	(14.896-18.775)		7109391	1166.1	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

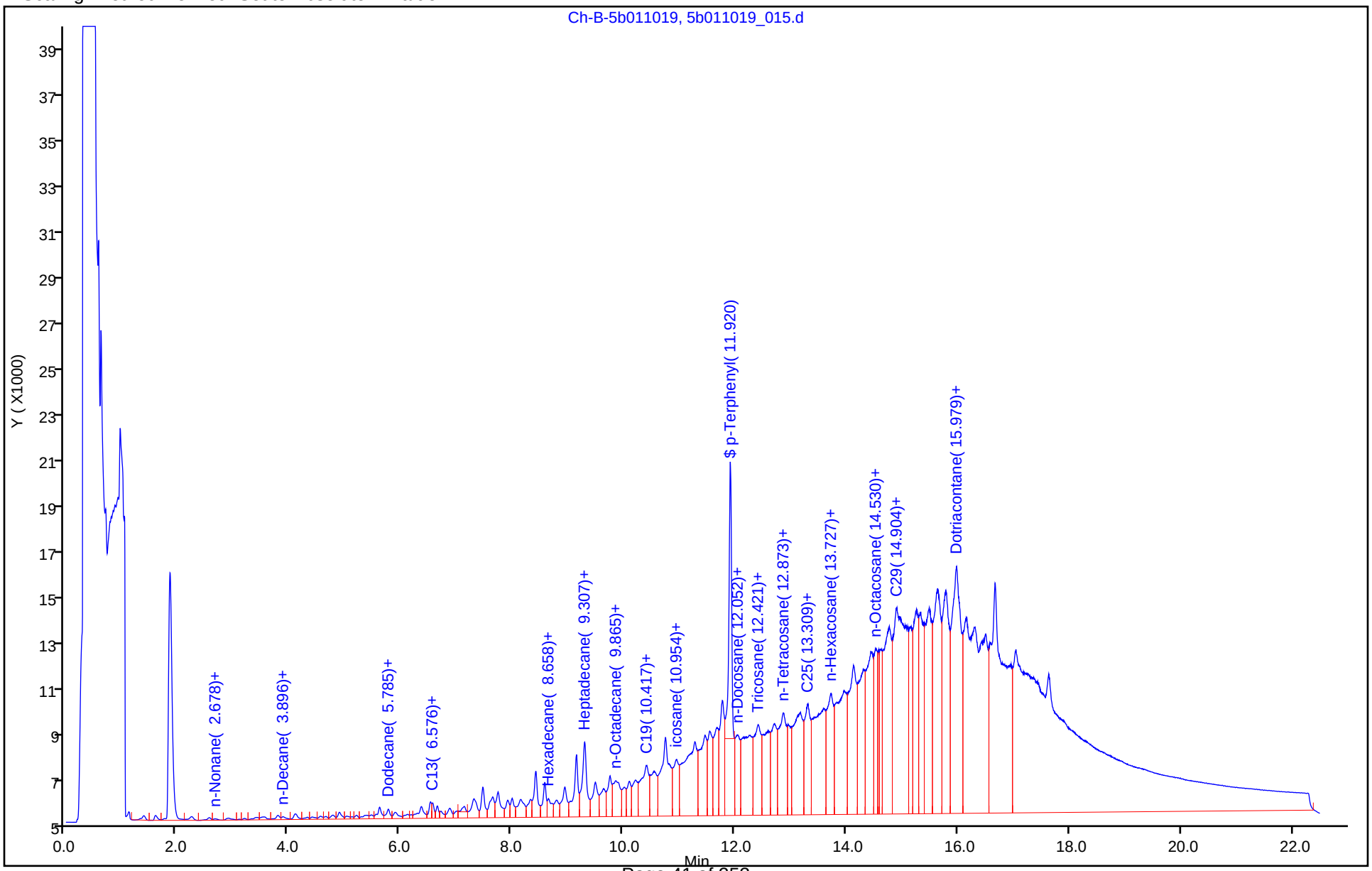
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Report Date: 11-Jan-2019 13:43:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_015.d				
Injection Date:	10-Jan-2019 22:26:13	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-6-B	Lab Sample ID:	720-90640-6	Worklist Smp#:	15
Client ID:	DG-X5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_015.d				
Lims ID:	720-90640-E-6-B				
Client ID:	DG-X5S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 22:26:13	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 104 Name: 720-0056024-015				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:43:43	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:43:43

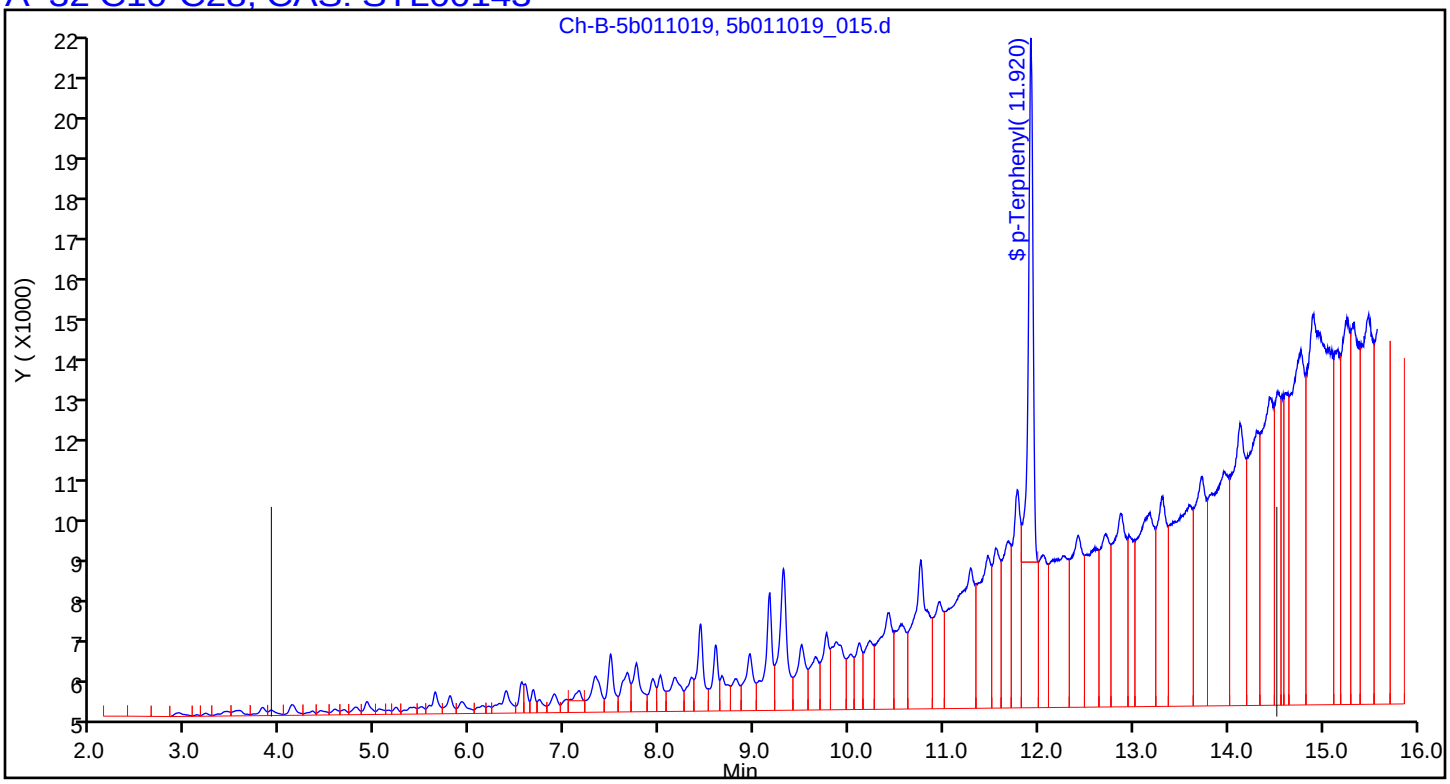
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	18.1	72.47

Report Date: 11-Jan-2019 13:43:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_015.d				
Injection Date:	10-Jan-2019 22:26:13	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-6-B	Lab Sample ID:	720-90640-6		
Client ID:	DG-X5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

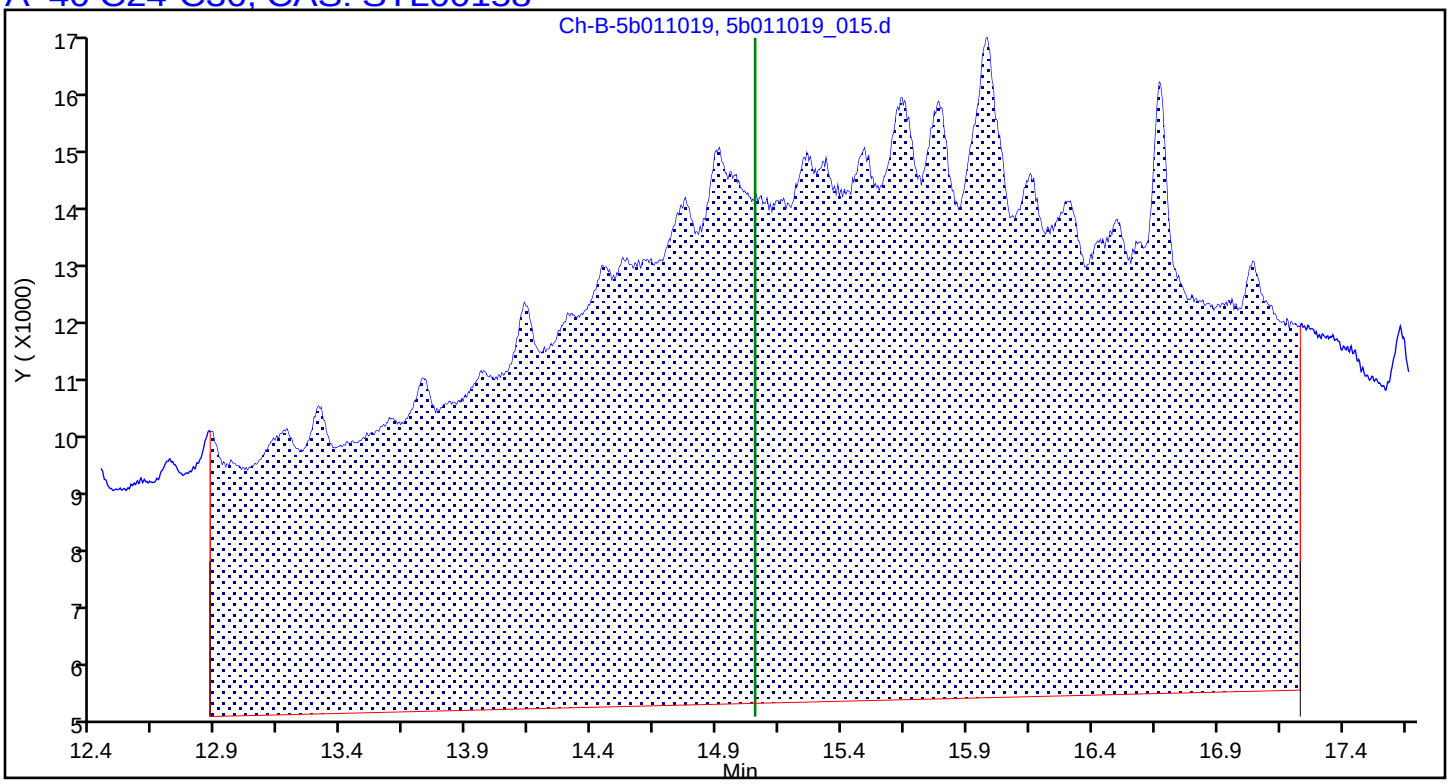


Report Date: 11-Jan-2019 13:43:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_015.d				
Injection Date:	10-Jan-2019 22:26:13	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-6-B	Lab Sample ID:	720-90640-6		
Client ID:	DG-X5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

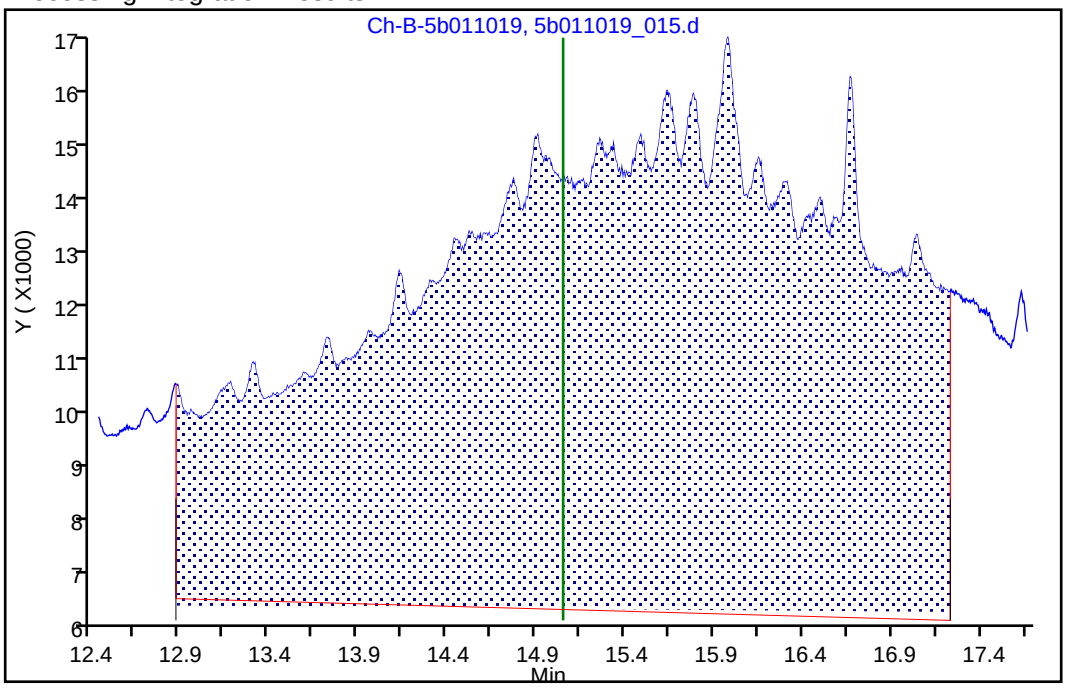
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_015.d				
Injection Date:	10-Jan-2019 22:26:13	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-6-B	Lab Sample ID:	720-90640-6		
Client ID:	DG-X5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.053, CAS: STL00158

Signal: 1

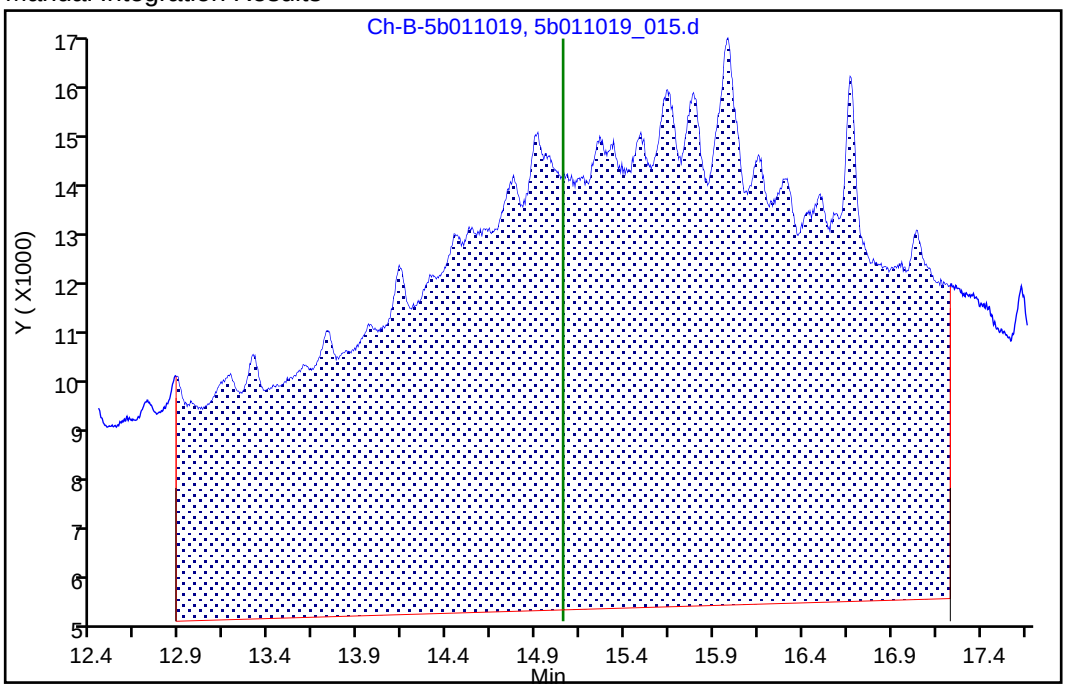
Processing Integration Results

RT: 15.05
Response: 8505962
Amount: 1357.3288



Manual Integration Results

RT: 15.05
Response: 8841066
Amount: 1410.8026



Reviewer: luj, 11-Jan-2019 13:43:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_010.d
Lims ID: 720-90640-E-7-B
Client ID: DG-X5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 19:59:55 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 137 Name: 720-0056024-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:40:24 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:40:24

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.696	2.681	0.015	224	NC	
	23 n-Decane	3.932	3.896	0.036	745	NC	
A	1 C9-C13	4.633	(2.681-6.586)		10321	0.8149	
A	21 Stoddard Solvent	4.633	(2.681-6.586)		10321	0.9079	
A	57 C10-C12	4.842	(3.896-5.787)		5674	0.5779	
	24 Dodecane		5.787			ND	
A	3 C9 - C17	5.985	(2.681-9.289)		18877	1.34	
A	47 C9 - C18	6.273	(2.681-9.866)		21570	1.92	
A	60 C10-C16	6.278	(3.896-8.659)		14705	1.18	
A	15 Kerosene	6.550	(2.681-10.419)		24759	2.20	
A	25 C9-C19	6.550	(2.681-10.419)		24759	1.75	
	26 C13	6.548	6.586	-0.038	532	NC	
$	27 n-Decanoic Acid (Surr)		7.205			ND	U
A	59 C12-C16	7.223	(5.787-8.659)		9717	0.9897	
A	62 C10-C20	7.424	(3.896-10.952)		36484	3.72	
A	28 C9-C24	7.776	(2.681-12.872)		70991	7.23	
A	29 C9-C25	7.993	(2.681-13.306)		74005	7.54	
A	54 C10-C23	8.159	(3.896-12.421)		62541	6.37	
A	4 C10-C24	8.384	(3.896-12.872)		67838	6.91	
A	16 C10-C25	8.601	(3.896-13.306)		70852	7.22	
	45 Hexadecane	8.653	8.659	-0.006	907	NC	
A	14 C10-C26	8.811	(3.896-13.725)		82802	8.43	
A	67 C12-C22	8.870	(5.787-11.952)		47797	4.87	
A	5 Diesel	9.208	(3.896-14.519)		98100	10.0	
A	32 C10-C28	9.208	(3.896-14.519)		98100	10.0	
A	12 Unknown Hydrocarbons	9.208	(3.896-14.519)		98100	NC	
A	30 C13-C22	9.269	(6.586-11.952)		46149	4.70	
	44 Heptadecane	9.301	9.289	0.012	1231	NC	
A	31 C12-C24	9.330	(5.787-12.872)		62850	6.40	
	49 n-Octadecane	9.912	9.866	0.046	1140	NC	
A	52 Mineral oil	9.957	(2.681-17.233)		509853	46.9	
A	9 Crude Oil Range Organics (	9.550	(2.681-16.420)		402629	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		192790	NC	
33 C19	10.422	10.419	0.003	448	NC	
A 64 C13-C28	10.552	(6.586-14.519)		91464	9.32	
A 17 C10-C36	10.158	(3.896-16.420)		189637	19.3	
A 13 C9-C40	10.728	(2.681-18.775)		732235	72.4	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		732235	NC	
A 58 C16-C24	10.766	(8.659-12.872)		54040	5.50	
61 icosane	10.954	10.952	0.002	1176	NC	
A 6 C10-C40	11.335	(3.896-18.775)		728116	72.1	
$ 34 p-Terphenyl	11.923	11.923	0.000	280322	24.9	
35 n-Docosane		11.952			ND	
A 18 C12-C40	12.281	(5.787-18.775)		717926	71.3	
36 Tricosane	12.423	12.421	0.002	1493	NC	
A 66 C13-C40	12.680	(6.586-18.775)		661697	66.7	
37 n-Tetracosane	12.872	12.872	0.000	1720	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		402865	54.6	
38 C25	13.307	13.306	0.001	1764	NC	
A 19 C16-C40	13.717	(8.659-18.775)		694718	69.4	
46 n-Hexacosane	13.724	13.725	-0.001	8192	NC	
A 20 C19-C36	13.826	(10.419-17.233)		266132	34.1	
A 55 C23-C32	14.189	(12.421-15.958)		100438	23.3	
39 n-Octacosane	14.448	14.519	-0.071	4627	NC	
65 C29	14.895	14.896	-0.001	11310	NC	
A 40 C24-C36	15.053	(12.872-17.233)		214266	34.2	
A 7 Motor Oil	15.053	(12.872-17.233)		214266	34.2	
A 50 C25-C36	15.270	(13.306-17.233)		211761	35.7	
A 10 C22-C40	15.363	(11.952-18.775)		133907	15.1	
A 41 C23-C40	15.598	(12.421-18.775)		387903	44.8	
A 8 C24-C40	15.823	(12.872-18.775)		387214	46.3	
56 Dotriacontane	15.950	15.958	-0.008	6302	NC	
A 51 C28-C40	16.647	(14.519-18.775)		358556	53.9	
A 63 C29-C40	16.835	(14.896-18.775)		343625	56.4	
42 n-Hexatriacontane	17.320	17.233	0.087	394110	NC	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

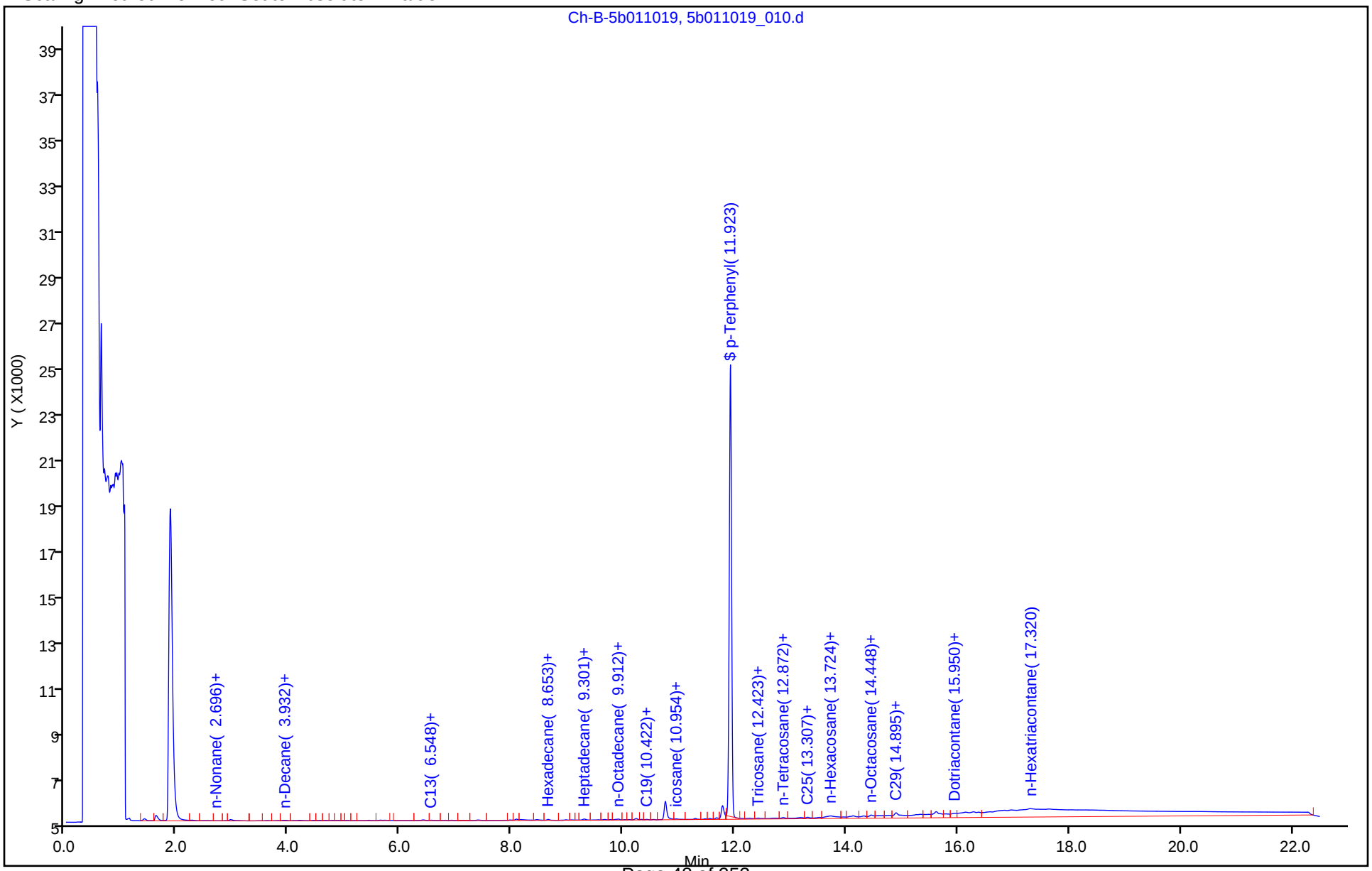
U - Marked Undetected

Report Date: 11-Jan-2019 13:40:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_010.d				
Injection Date:	10-Jan-2019 19:59:55	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-7-B	Lab Sample ID:	720-90640-7	Worklist Smp#:	10
Client ID:	DG-X5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_010.d				
Lims ID:	720-90640-E-7-B				
Client ID:	DG-X5S-3.5-4				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 19:59:55	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 137 Name: 720-0056024-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:40:24	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:40:24

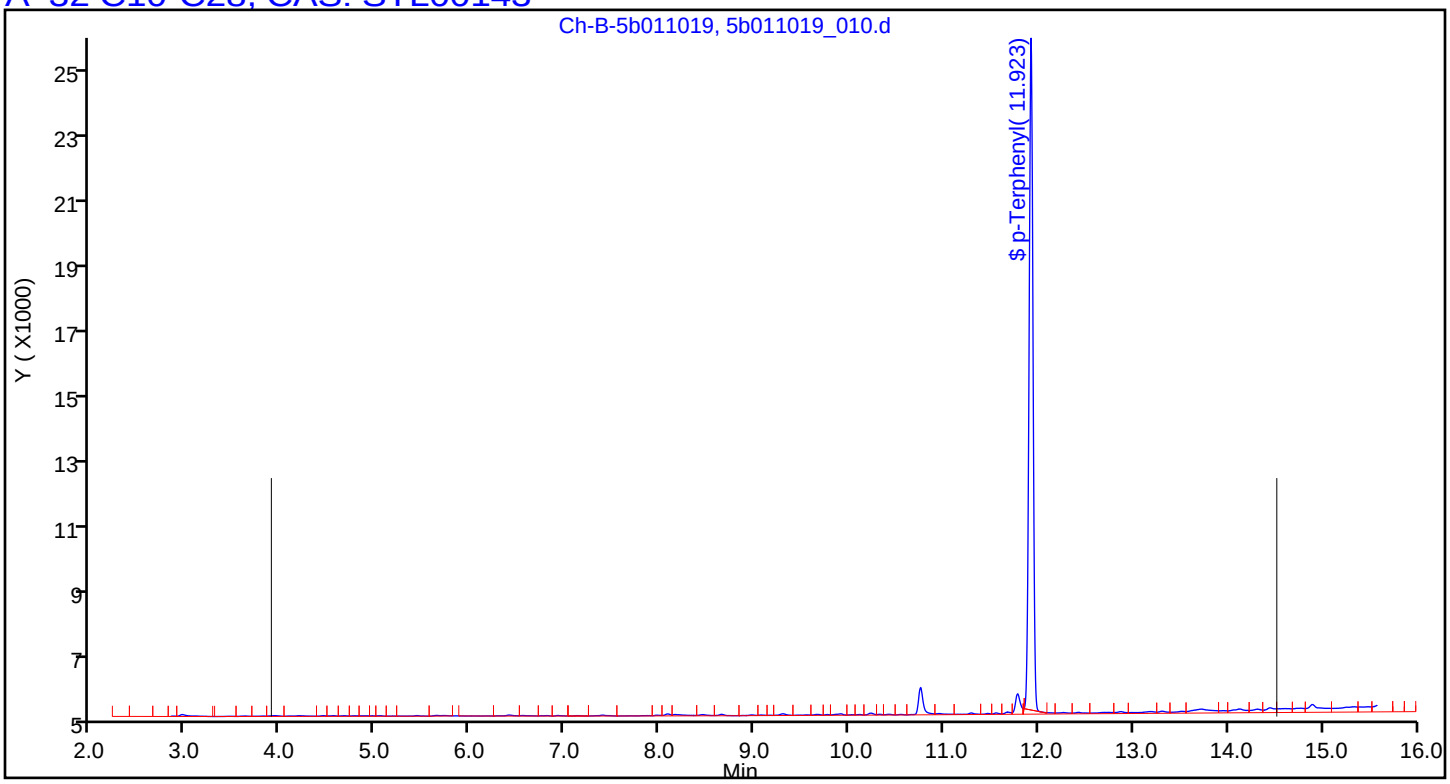
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.9	99.53

Report Date: 11-Jan-2019 13:40:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_010.d				
Injection Date:	10-Jan-2019 19:59:55	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-7-B	Lab Sample ID:	720-90640-7		
Client ID:	DG-X5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

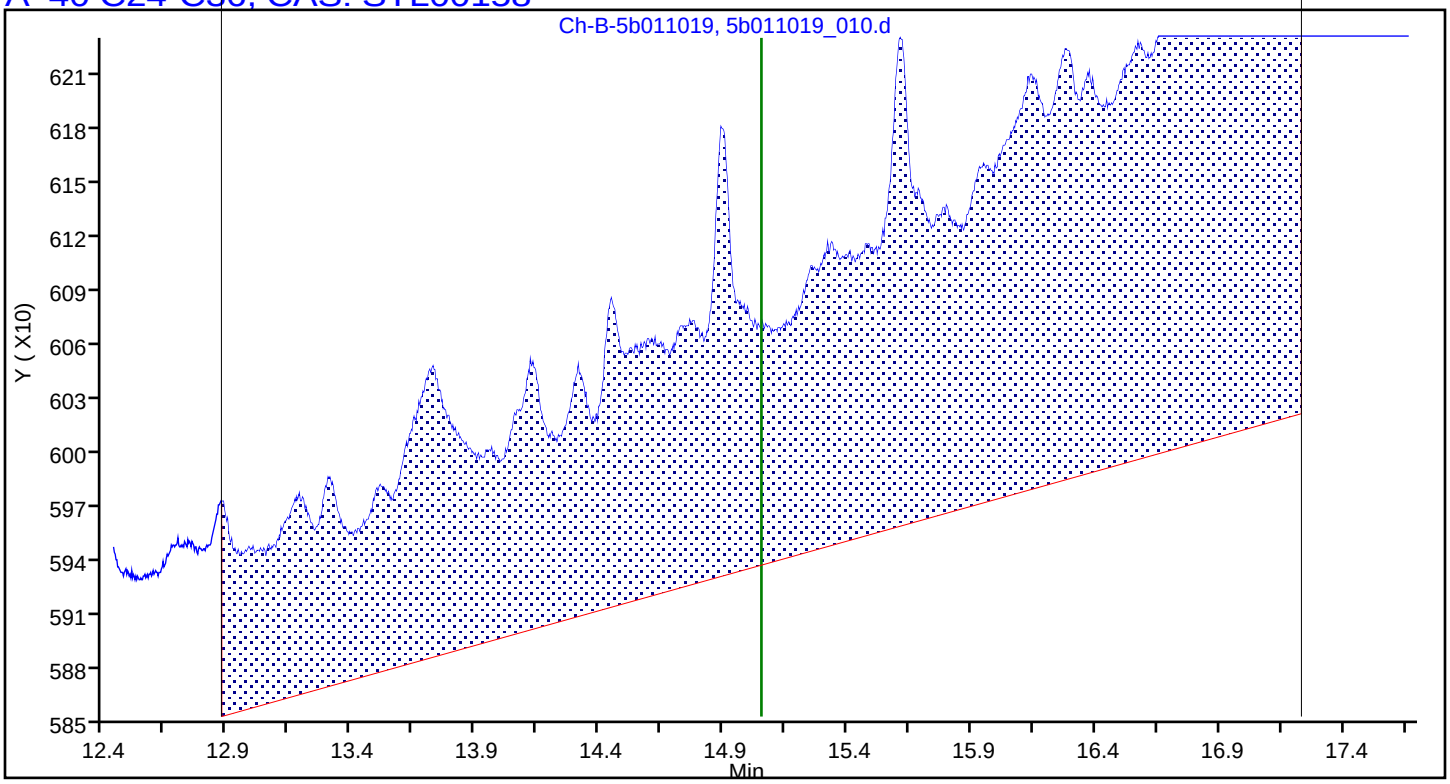


Report Date: 11-Jan-2019 13:40:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_010.d				
Injection Date:	10-Jan-2019 19:59:55	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-7-B	Lab Sample ID:	720-90640-7		
Client ID:	DG-X5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_013.d
Lims ID: 720-90640-E-8-B
Client ID: DG-Z5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 21:27:57 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 003 Name: 720-0056023-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:17:43 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:17:43

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.472	2.554	-0.082	1522	NC	
	23 n-Decane		3.799			ND	
A	1 C9-C13	4.538	(2.554-6.521)		49469	NC	
A	21 Stoddard Solvent	4.538	(2.554-6.521)		49469	NC	
A	57 C10-C12	4.758	(3.799-5.716)		24961	2.55	
	24 Dodecane		5.716			ND	
A	3 C9 - C17	5.902	(2.554-9.250)		196858	16.2	
A	47 C9 - C18	6.199	(2.554-9.843)		288182	26.8	
A	60 C10-C16	6.206	(3.799-8.612)		166728	15.1	
A	15 Kerosene	6.468	(2.554-10.381)		375490	34.8	
A	25 C9-C19	6.468	(2.554-10.381)		375490	30.8	
	26 C13	6.500	6.521	-0.021	16997	NC	
$	27 n-Decanoic Acid (Surr)		7.163			ND	U
A	59 C12-C16	7.164	(5.716-8.612)		151003	15.4	
A	62 C10-C20	7.358	(3.799-10.917)		827034	84.4	
A	28 C9-C24	7.701	(2.554-12.848)		2177973	222.2	
A	29 C9-C25	7.919	(2.554-13.284)		2177973	222.2	
A	54 C10-C23	8.097	(3.799-12.394)		1737404	177.3	
A	4 C10-C24	8.323	(3.799-12.848)		2172423	221.7	
A	16 C10-C25	8.542	(3.799-13.284)		2172423	221.7	
	45 Hexadecane	8.553	8.612	-0.059	21092	NC	
A	14 C10-C26	8.752	(3.799-13.705)		3359875	342.8	
A	67 C12-C22	8.819	(5.716-11.922)		1721679	175.7	
A	12 Unknown Hydrocarbons	9.151	(3.799-14.504)		5217951	NC	M
A	32 C10-C28	9.151	(3.799-14.504)		5217951	532.4	M
A	5 Diesel	9.151	(3.799-14.504)		5217951	532.4	M
A	30 C13-C22	9.222	(6.521-11.922)		1710482	174.5	
	44 Heptadecane	9.263	9.250	0.013	65479	NC	
A	31 C12-C24	9.282	(5.716-12.848)		2156698	220.0	
	49 n-Octadecane	9.856	9.843	0.013	87308	NC	
A	9 Crude Oil Range Organics (	9.894	(2.554-17.234)		11917990	NC	
A	52 Mineral oil	9.894	(2.554-17.234)		11917990	1063.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		15400325	NC	M
33 C19		10.381			ND	
A 64 C13-C28	10.512	(6.521-14.504)		5191029	529.6	M
A 17 C10-C36	10.517	(3.799-17.234)		15394775	1570.7	M
A 13 C9-C40	10.672	(2.554-18.790)		13895917	1727.6	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		13895917	NC	
A 58 C16-C24	10.730	(8.612-12.848)		2026787	206.8	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		13887456	1726.7	
$ 34 p-Terphenyl	11.903	11.908	-0.005	310665	26.1	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		13850228	1722.3	
36 Tricosane	12.403	12.394	0.009	435019	NC	
A 66 C13-C40	12.655	(6.521-18.790)		13823001	1719.0	
37 n-Tetracosane		12.848			ND	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		11675724	1538.4	
38 C25	13.289	13.284	0.005	1187452	NC	
A 19 C16-C40	13.701	(8.612-18.790)		13653651	1698.5	
46 n-Hexacosane		13.705			ND	
A 20 C19-C36	13.807	(10.381-17.234)		10782847	1249.7	
A 55 C23-C32	14.172	(12.394-15.951)		7139797	1501.4	
39 n-Octacosane		14.504			ND	
65 C29	14.897	14.883	0.014	850064	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		8736834	1434.1	
A 40 C24-C36	15.041	(12.848-17.234)		8736834	1434.1	
A 50 C25-C36	15.259	(13.284-17.234)		8152810	1409.2	
A 10 C22-C40	15.356	(11.922-18.790)		11350510	1357.7	
A 41 C23-C40	15.592	(12.394-18.790)		11135142	1357.7	
A 8 C24-C40	15.819	(12.848-18.790)		10600580	1332.5	
56 Dotriacontane	15.949	15.951	-0.002	396048	NC	
A 51 C28-C40	16.647	(14.504-18.790)		7888960	1444.9	
A 63 C29-C40	16.836	(14.883-18.790)		6945157	1418.7	
42 n-Hexatriacontane		17.234			ND	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

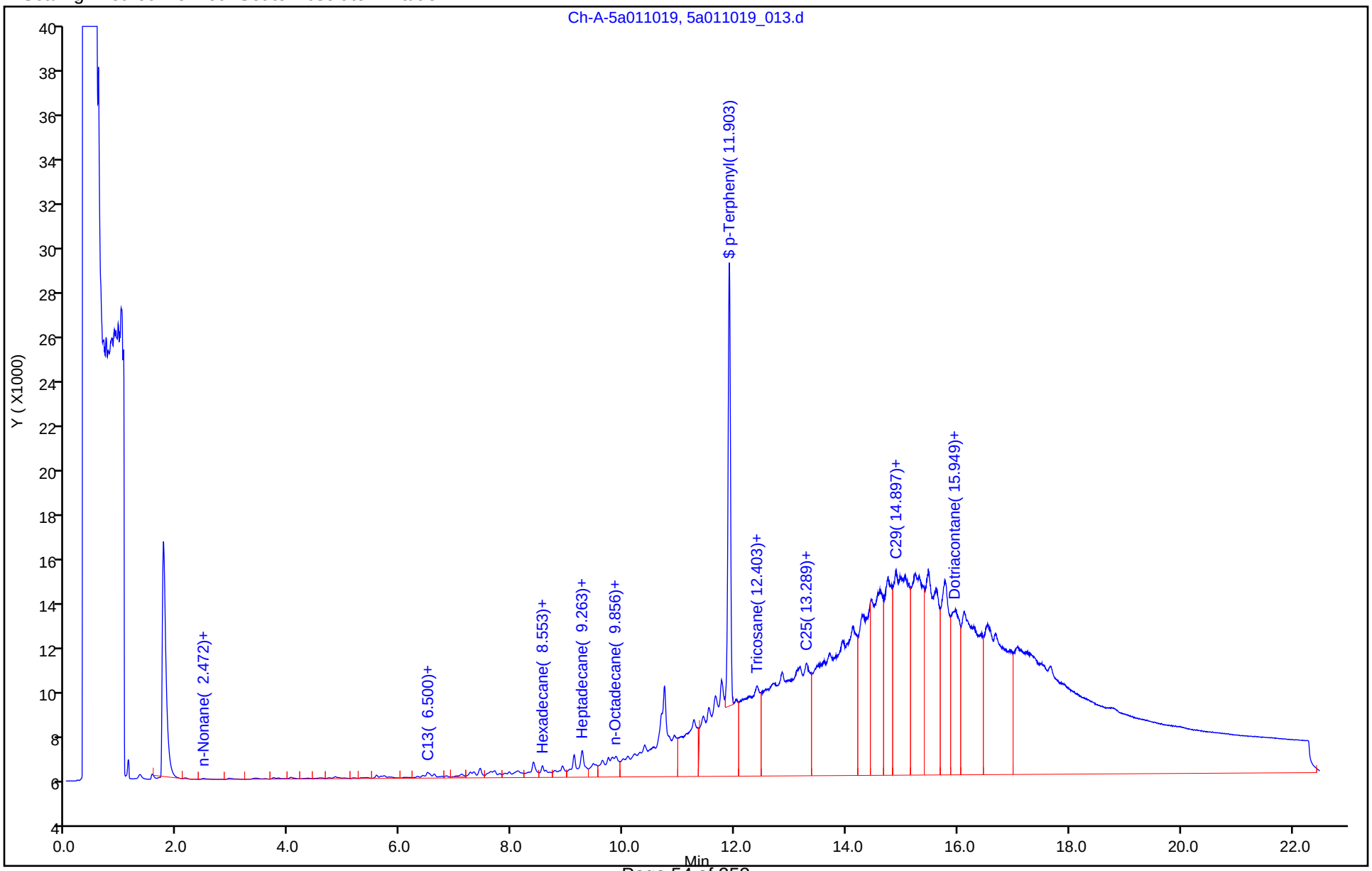
Report Date: 11-Jan-2019 13:17:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_013.d

Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-8-B	Lab Sample ID:	720-90640-8	Worklist Smp#:	13
Client ID:	DG-Z5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_013.d				
Lims ID:	720-90640-E-8-B				
Client ID:	DG-Z5S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 21:27:57	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 003 Name: 720-0056023-013				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:17:43	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:17:43

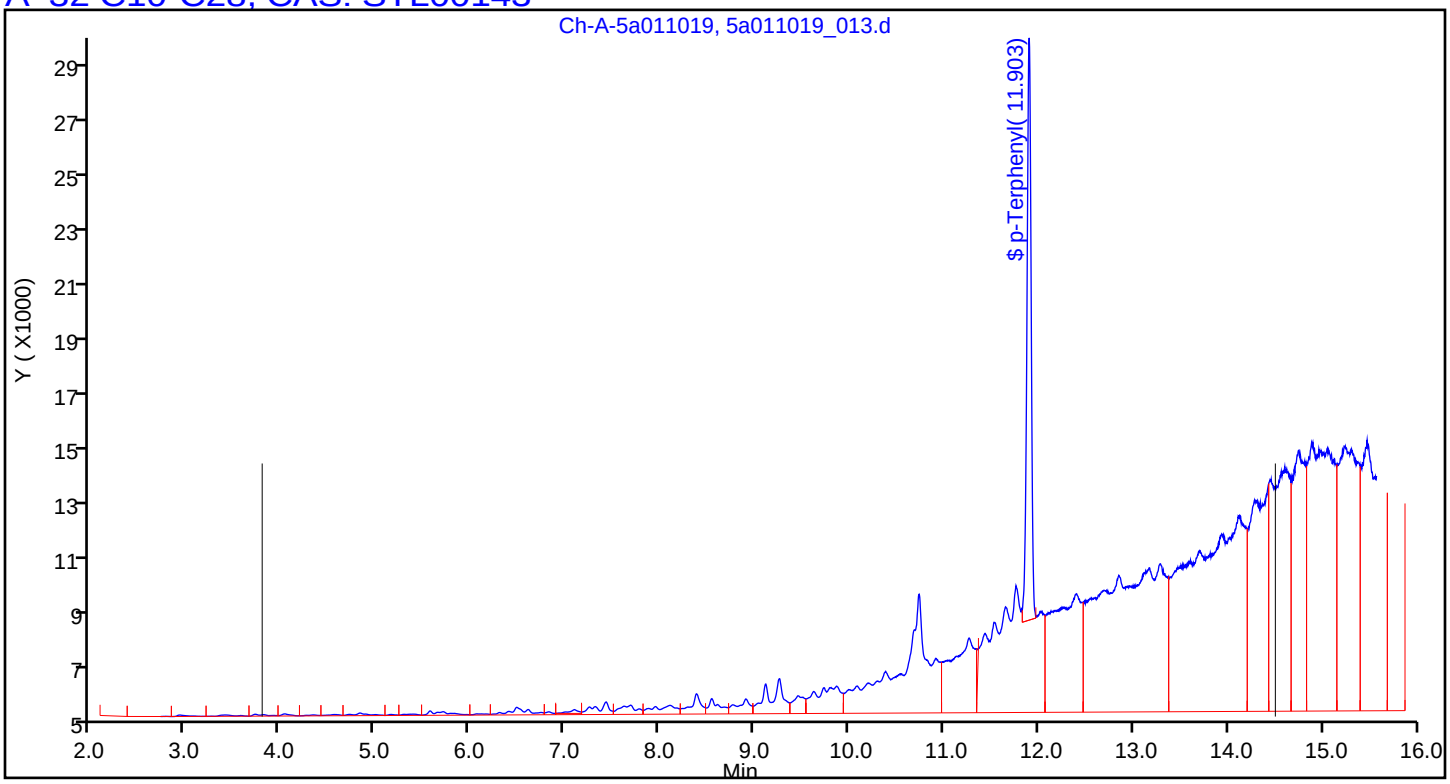
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.1	104.21

Report Date: 11-Jan-2019 13:17:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_013.d				
Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-8-B	Lab Sample ID:	720-90640-8		
Client ID:	DG-Z5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

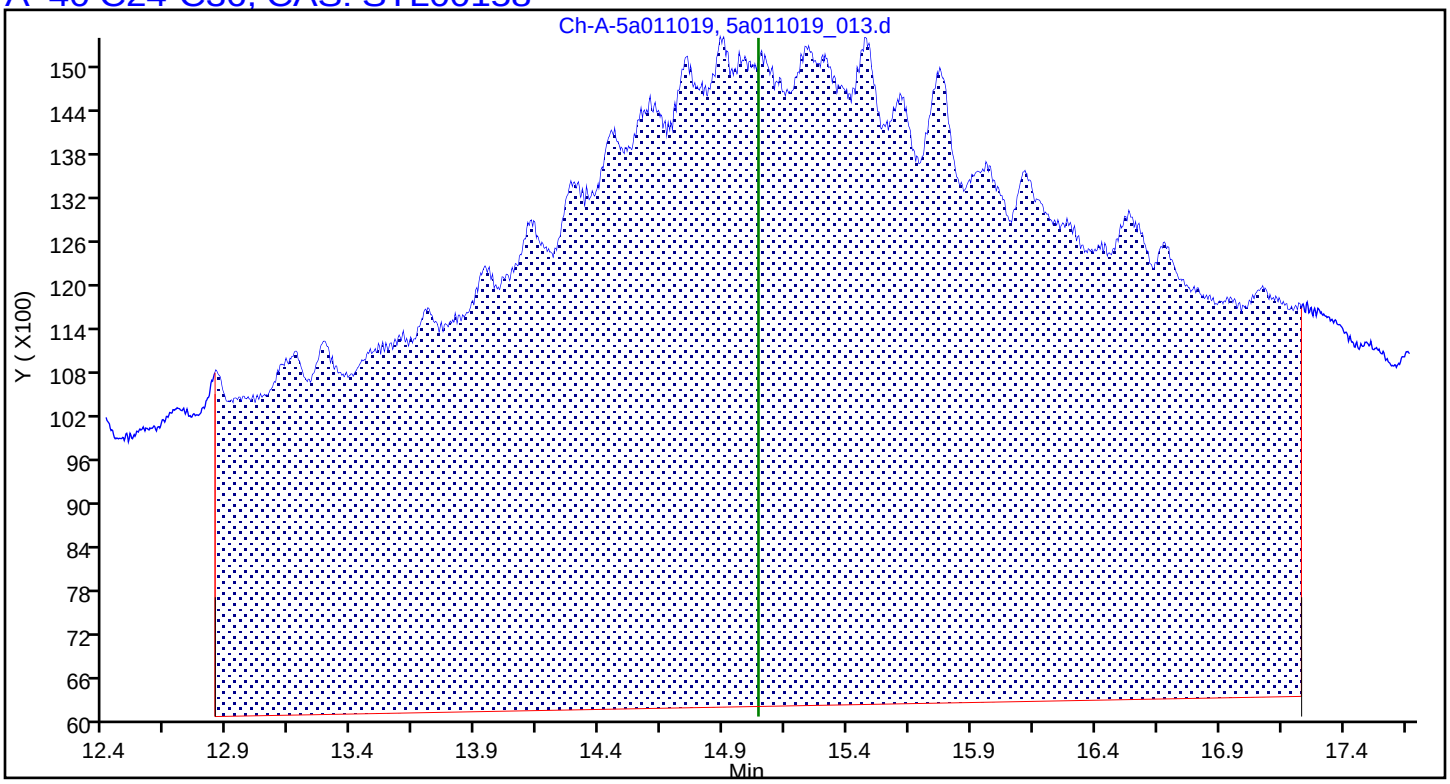


Report Date: 11-Jan-2019 13:17:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_013.d				
Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-8-B	Lab Sample ID:	720-90640-8		
Client ID:	DG-Z5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

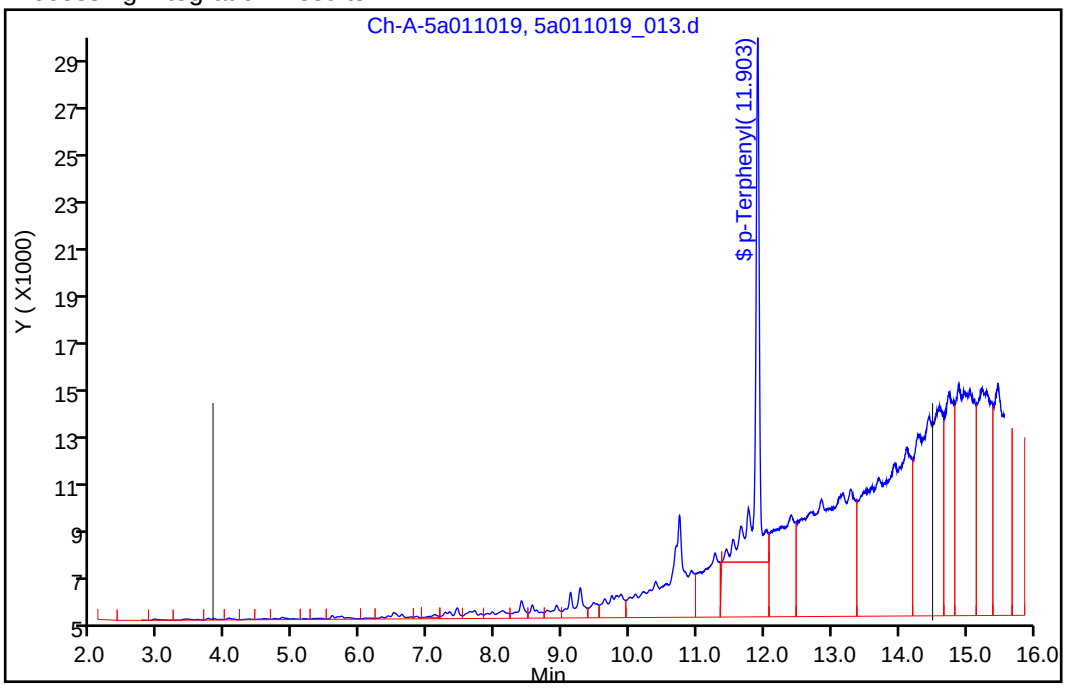
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Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-8-B	Lab Sample ID:	720-90640-8		
Client ID:	DG-Z5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.151, CAS: STL00143

Signal: 1

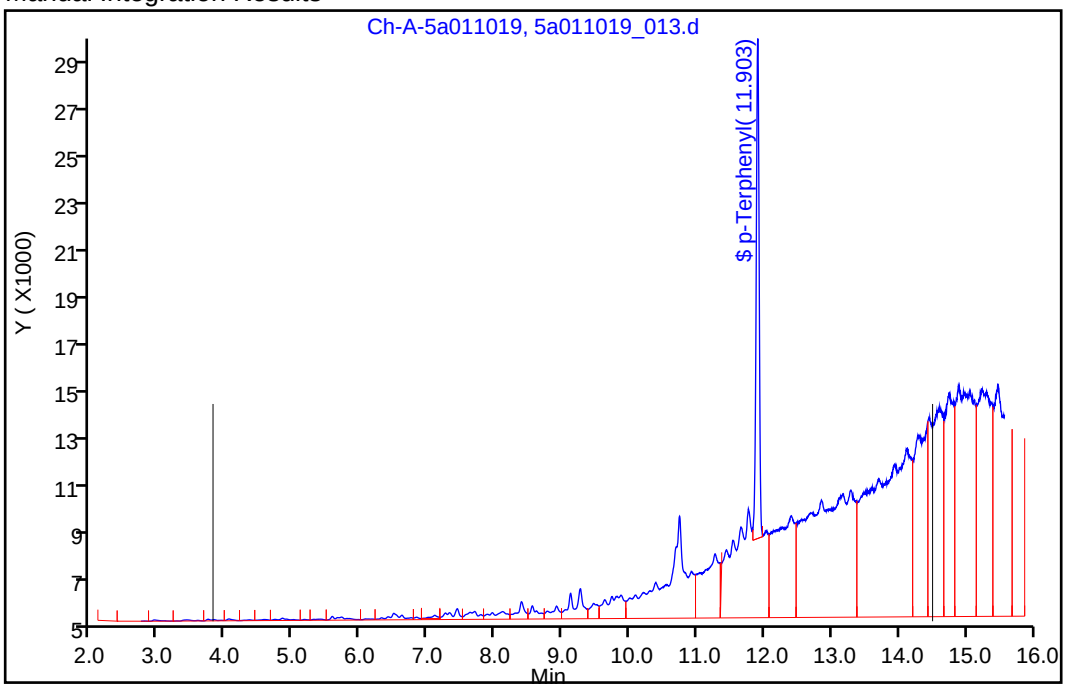
Processing Integration Results

RT: 9.15
Response: 4527090
Amount: 461.9002



Manual Integration Results

RT: 9.15
Response: 5217951
Amount: 532.3889



Reviewer: luj, 11-Jan-2019 13:17:20

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

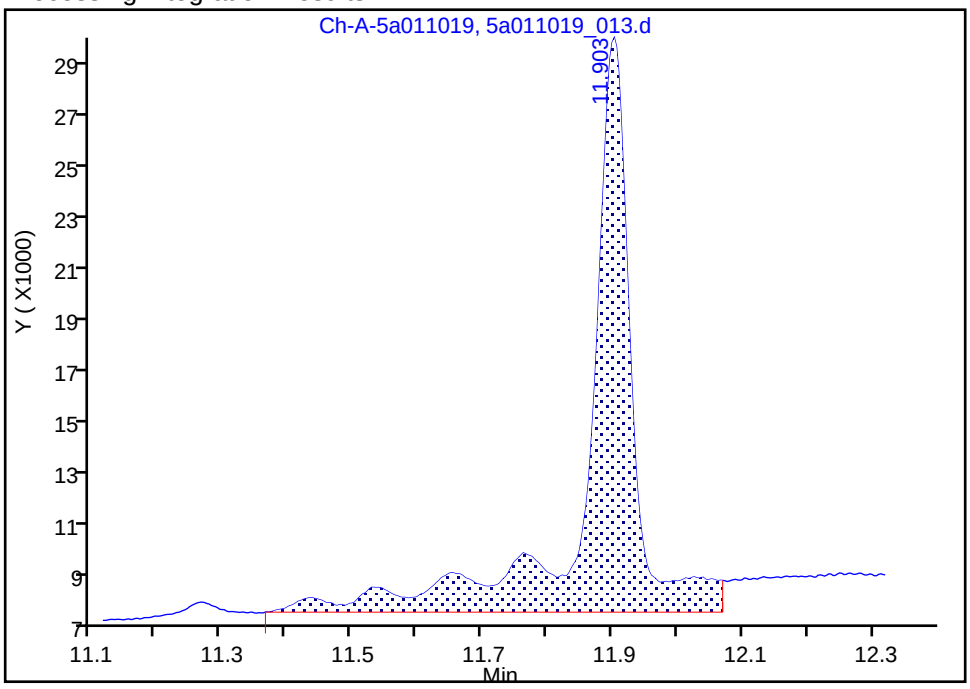
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Injection Date:	10-Jan-2019 21:27:57	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-8-B	Lab Sample ID:	720-90640-8		
Client ID:	DG-Z5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

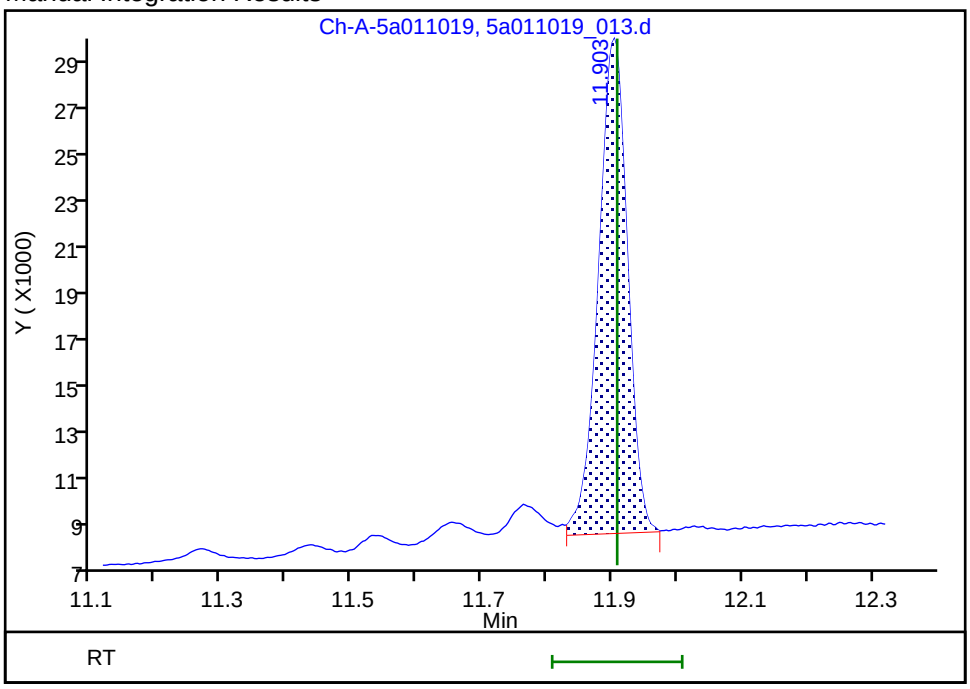
Processing Integration Results

RT: 11.90
Area: 511078
Amount: 42.858004
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 310665
Amount: 26.051761
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:17:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_008.d
Lims ID: 720-90640-E-9-B
Client ID: DG-Z5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 19:01:27 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056023-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:14:11 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:14:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.554			ND	
23 n-Decane	3.842	3.799	0.043	884	NC	
A 1 C9-C13	4.538	(2.554-6.521)		16782	NC	
A 21 Stoddard Solvent	4.538	(2.554-6.521)		16782	NC	
A 57 C10-C12	4.758	(3.799-5.716)		14570	1.49	
24 Dodecane		5.716			ND	
A 3 C9 - C17	5.902	(2.554-9.250)		32119	2.65	
A 47 C9 - C18	6.199	(2.554-9.843)		38076	3.54	
A 60 C10-C16	6.206	(3.799-8.612)		29076	2.64	
A 15 Kerosene	6.468	(2.554-10.381)		53094	4.92	
A 25 C9-C19	6.468	(2.554-10.381)		53094	4.35	
26 C13	6.620	6.521	0.099	3287	NC	
$ 27 n-Decanoic Acid (Surr)		7.163			ND	
A 59 C12-C16	7.164	(5.716-8.612)		15186	1.55	
A 62 C10-C20	7.358	(3.799-10.917)		127036	13.0	
A 28 C9-C24	7.701	(2.554-12.848)		256525	26.2	
A 29 C9-C25	7.919	(2.554-13.284)		264347	27.0	
A 54 C10-C23	8.097	(3.799-12.394)		235593	24.0	
A 4 C10-C24	8.323	(3.799-12.848)		254669	26.0	
A 16 C10-C25	8.542	(3.799-13.284)		262491	26.8	
45 Hexadecane	8.611	8.612	-0.001	2059	NC	
A 14 C10-C26	8.752	(3.799-13.705)		318011	32.4	
A 67 C12-C22	8.819	(5.716-11.922)		208224	21.2	
A 12 Unknown Hydrocarbons	9.151	(3.799-14.504)		415125	NC	
A 32 C10-C28	9.151	(3.799-14.504)		415125	42.4	
A 5 Diesel	9.151	(3.799-14.504)		415125	42.4	
A 30 C13-C22	9.222	(6.521-11.922)		207188	21.1	
44 Heptadecane	9.259	9.250	0.009	4219	NC	
A 31 C12-C24	9.282	(5.716-12.848)		240779	24.6	
49 n-Octadecane		9.843			ND	
A 9 Crude Oil Range Organics (	9.894	(2.554-17.234)		1053775	NC	
A 52 Mineral oil	9.894	(2.554-17.234)		1053775	94.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		796458	NC	
33 C19	10.297	10.381	-0.084	5512	NC	
A 64 C13-C28	10.512	(6.521-14.504)		400199	40.8	
A 17 C10-C36	10.517	(3.799-17.234)		794602	81.1	
A 13 C9-C40	10.672	(2.554-18.790)		1400010	135.0	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		1400010	NC	
A 58 C16-C24	10.730	(8.612-12.848)		227652	23.2	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		1397265	135.1	
$ 34 p-Terphenyl	11.900	11.908	-0.008	323622	27.1	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		1379642	133.4	
36 Tricosane	12.393	12.394	-0.001	13479	NC	
A 66 C13-C40	12.655	(6.521-18.790)		1375271	133.0	
37 n-Tetracosane	12.838	12.848	-0.010	19076	NC	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		1006196	132.6	
38 C25	13.286	13.284	0.002	19447	NC	
A 19 C16-C40	13.701	(8.612-18.790)		1352431	130.5	
46 n-Hexacosane	13.667	13.705	-0.038	36073	NC	
A 20 C19-C36	13.807	(10.381-17.234)		706620	81.9	
A 55 C23-C32	14.172	(12.394-15.951)		456260	95.9	
39 n-Octacosane	14.484	14.504	-0.020	51322	NC	
65 C29	14.885	14.883	0.002	41870	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		560825	92.1	
A 40 C24-C36	15.041	(12.848-17.234)		560825	92.1	
A 50 C25-C36	15.259	(13.284-17.234)		543889	94.0	
A 10 C22-C40	15.356	(11.922-18.790)		604237	72.3	
A 41 C23-C40	15.592	(12.394-18.790)		862421	105.2	
A 8 C24-C40	15.819	(12.848-18.790)		848218	106.6	
56 Dotriacontane	16.012	15.951	0.061	93478	NC	
A 51 C28-C40	16.647	(14.504-18.790)		744421	97.1	
A 63 C29-C40	16.836	(14.883-18.790)		699356	98.4	
42 n-Hexatriacontane		17.234			ND	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

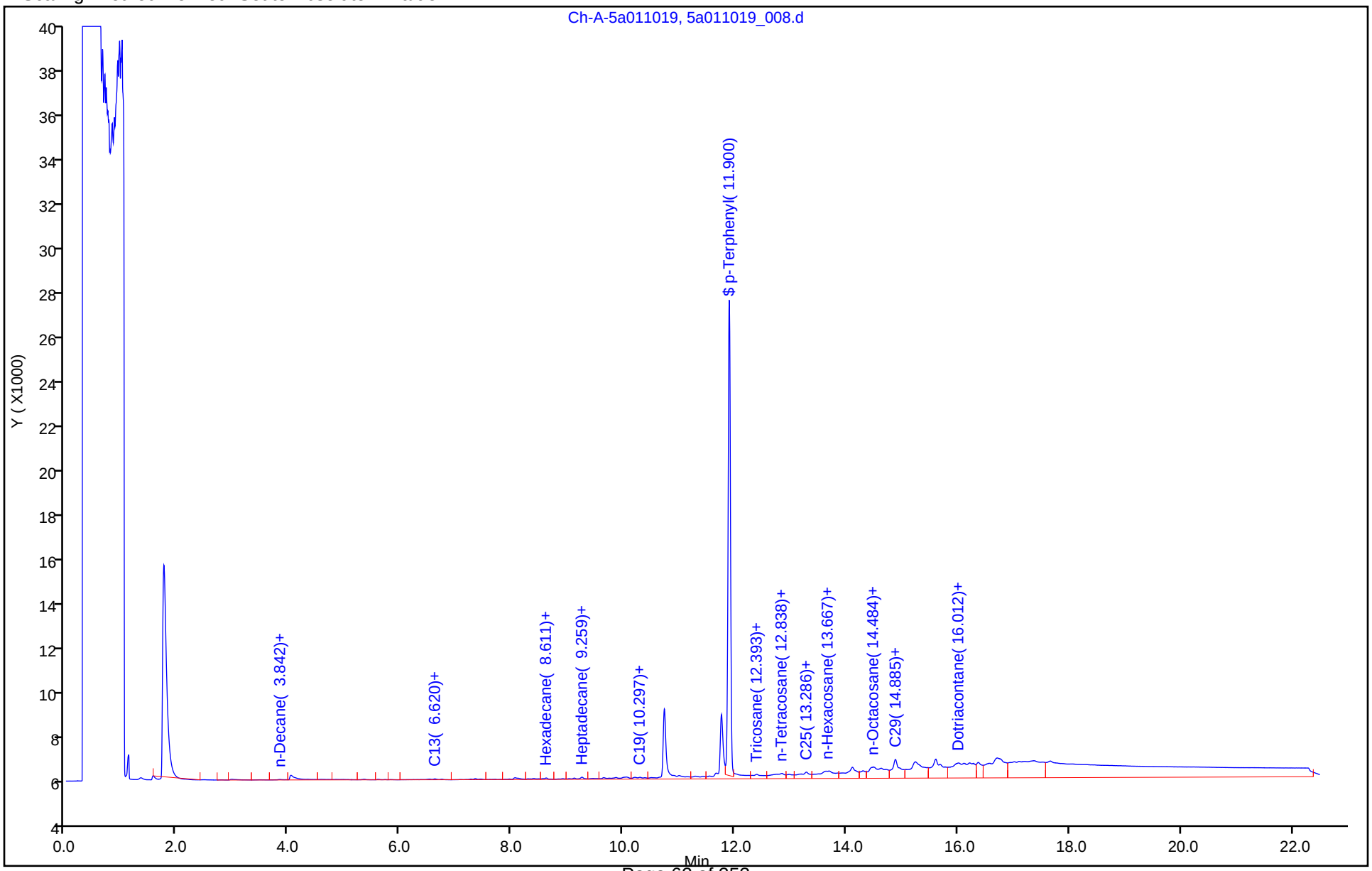
Report Date: 11-Jan-2019 13:14:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_008.d

Injection Date:	10-Jan-2019 19:01:27	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-9-B	Lab Sample ID:	720-90640-9	Worklist Smp#:	8
Client ID:	DG-Z5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_008.d				
Lims ID:	720-90640-E-9-B				
Client ID:	DG-Z5S-3.5-4				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 19:01:27	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056023-008				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:14:11	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:14:11

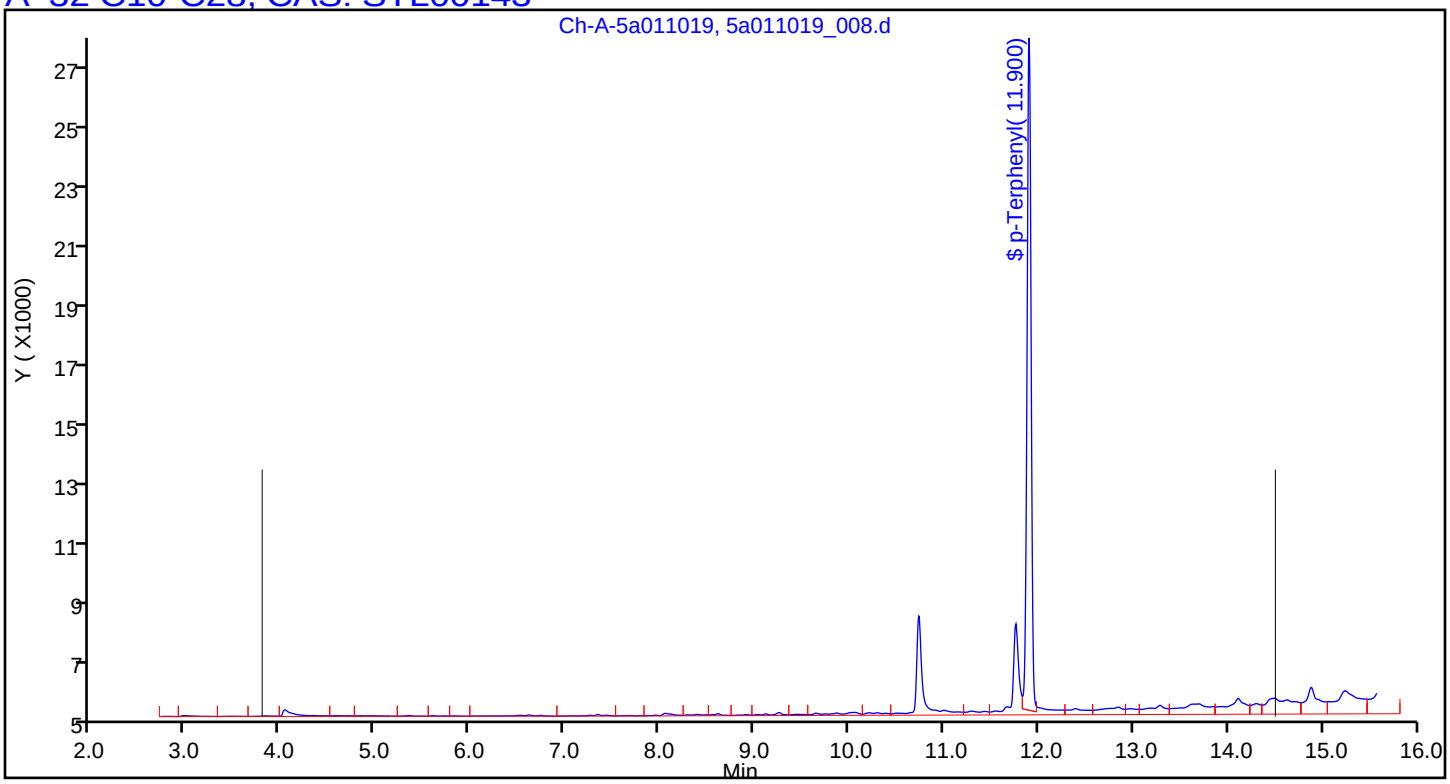
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.1	108.55

Report Date: 11-Jan-2019 13:14:12 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_008.d				
Injection Date:	10-Jan-2019 19:01:27	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-9-B	Lab Sample ID:	720-90640-9		
Client ID:	DG-Z5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

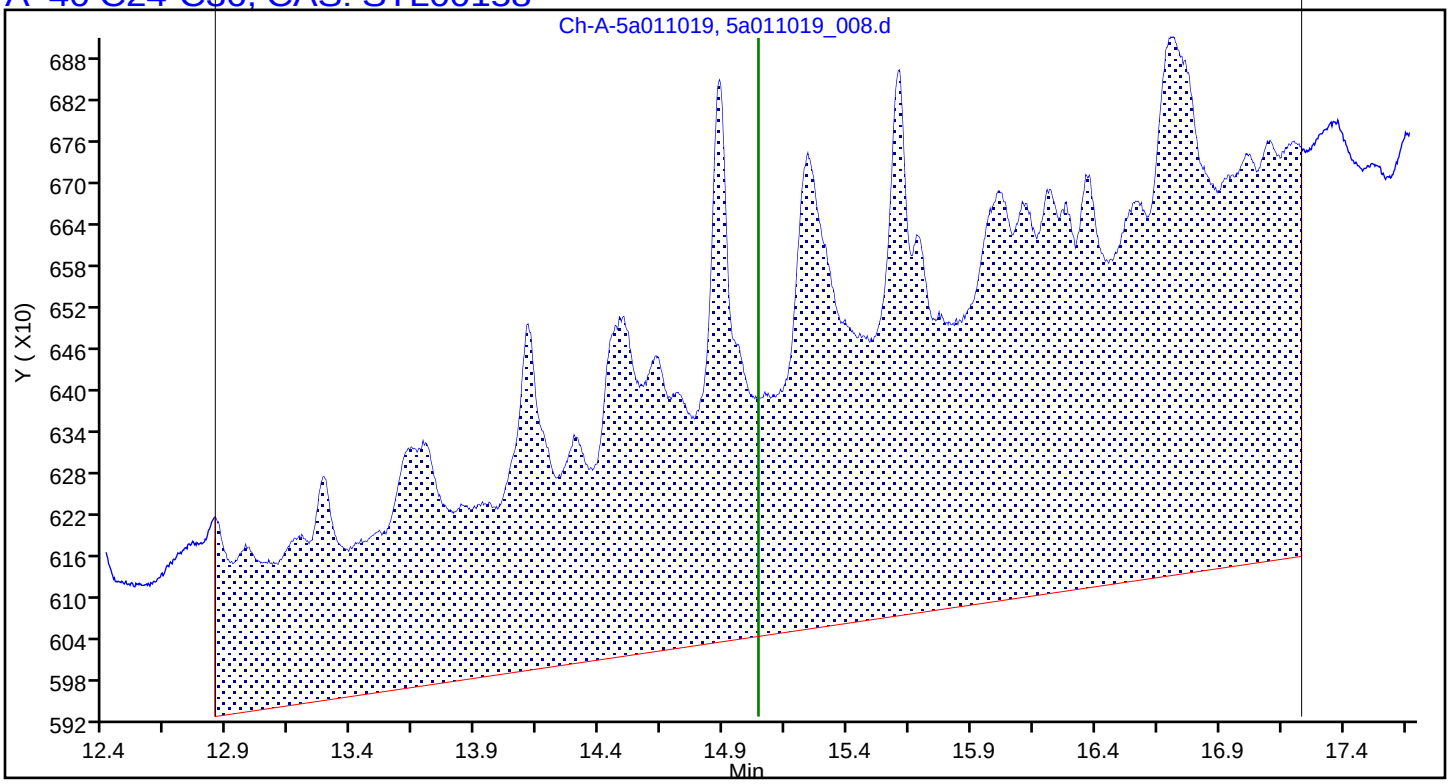


Report Date: 11-Jan-2019 13:14:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_008.d				
Injection Date:	10-Jan-2019 19:01:27	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-9-B	Lab Sample ID:	720-90640-9		
Client ID:	DG-Z5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

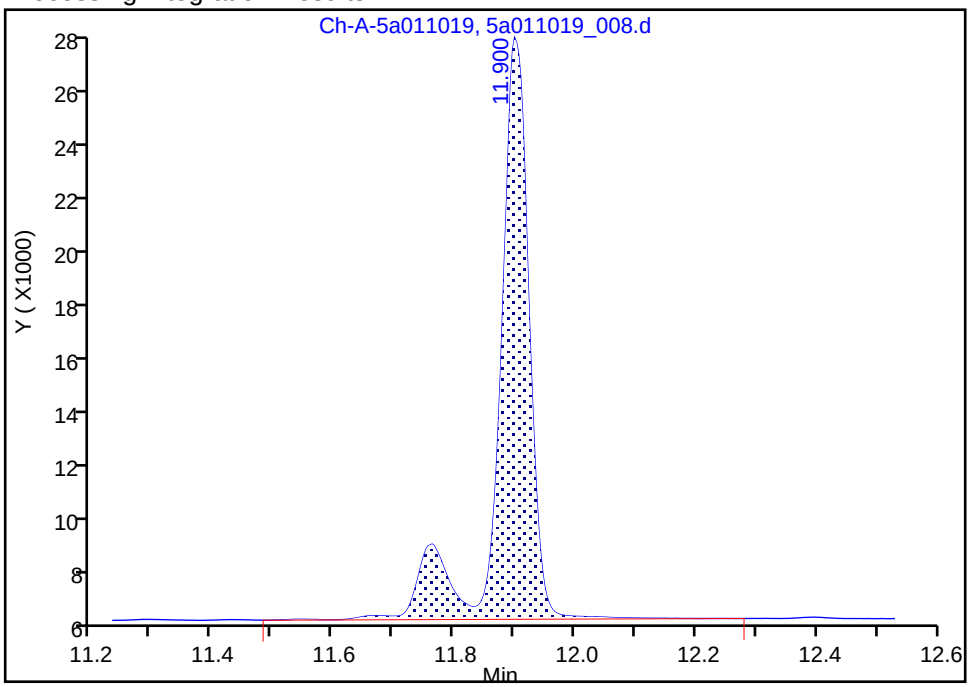
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Injection Date:	10-Jan-2019 19:01:27	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-9-B	Lab Sample ID:	720-90640-9		
Client ID:	DG-Z5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

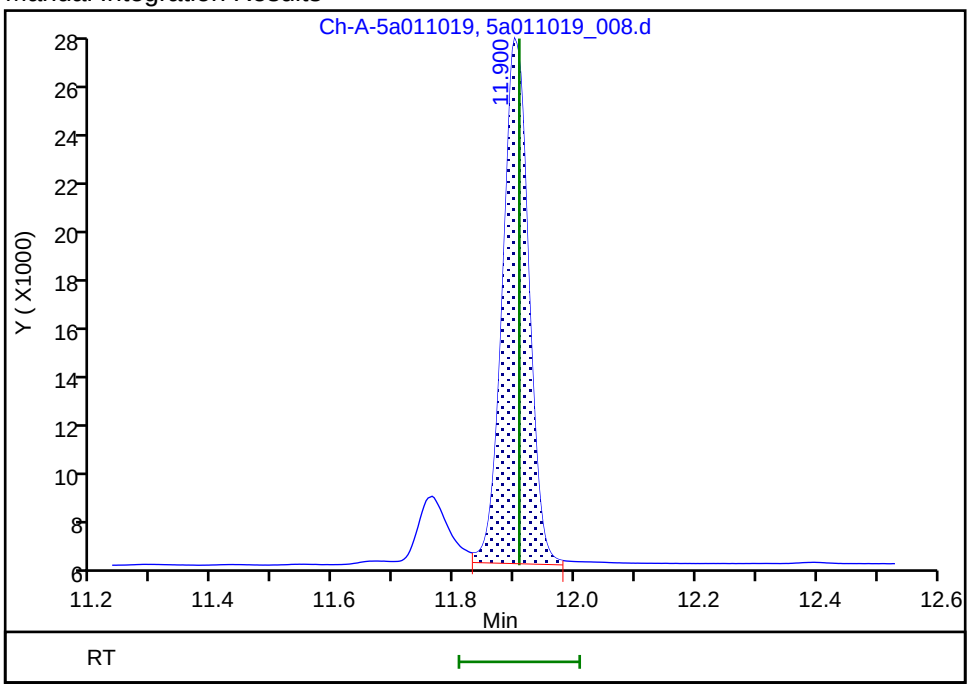
Processing Integration Results

RT: 11.90
Area: 381578
Amount: 31.998387
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 323622
Amount: 27.138310
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:14:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_014.d
Lims ID: 720-90640-E-10-B
Client ID: DG-AD5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 21:57:04 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 004 Name: 720-0056023-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:18:55 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:18:55

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.534	2.554	-0.020	1143	NC	
23 n-Decane	3.808	3.799	0.009	1620	NC	
A 1 C9-C13	4.538	(2.554-6.521)		22619	NC	
A 21 Stoddard Solvent	4.538	(2.554-6.521)		22619	NC	
A 57 C10-C12	4.758	(3.799-5.716)		12331	1.26	
24 Dodecane	5.694	5.716	-0.022	4764	NC	
A 3 C9 - C17	5.902	(2.554-9.250)		86812	7.16	
A 47 C9 - C18	6.199	(2.554-9.843)		304885	28.3	
A 60 C10-C16	6.206	(3.799-8.612)		83457	7.57	
A 15 Kerosene	6.468	(2.554-10.381)		304885	28.3	
A 25 C9-C19	6.468	(2.554-10.381)		304885	25.0	
26 C13	6.504	6.521	-0.017	6538	NC	
$ 27 n-Decanoic Acid (Surr)		7.163			ND	U
A 59 C12-C16	7.164	(5.716-8.612)		75890	7.74	
A 62 C10-C20	7.358	(3.799-10.917)		2010169	205.1	
A 28 C9-C24	7.701	(2.554-12.848)		6468300	660.0	
A 29 C9-C25	7.919	(2.554-13.284)		8100316	826.5	
A 54 C10-C23	8.097	(3.799-12.394)		5034227	513.6	
A 4 C10-C24	8.323	(3.799-12.848)		6464945	659.6	
A 16 C10-C25	8.542	(3.799-13.284)		8096961	826.1	
45 Hexadecane		8.612			ND	
A 14 C10-C26	8.752	(3.799-13.705)		8566975	874.1	M
A 67 C12-C22	8.819	(5.716-11.922)		5026660	512.9	
A 12 Unknown Hydrocarbons	9.151	(3.799-14.504)		11650081	NC	M
A 32 C10-C28	9.151	(3.799-14.504)		11650081	1188.7	M
A 5 Diesel	9.151	(3.799-14.504)		11650081	1188.7	M
A 30 C13-C22	9.222	(6.521-11.922)		5021501	512.3	
44 Heptadecane	9.270	9.250	0.020	218073	NC	
A 31 C12-C24	9.282	(5.716-12.848)		6457378	658.8	
49 n-Octadecane		9.843			ND	
A 9 Crude Oil Range Organics (	9.894	(2.554-17.234)		20499452	NC	
A 52 Mineral oil	9.894	(2.554-17.234)		20499452	1829.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		24149809	NC	M
33 C19		10.381			ND	
A 64 C13-C28	10.512	(6.521-14.504)		11637355	1187.4	M
A 17 C10-C36	10.517	(3.799-17.234)		24146454	2463.7	M
A 13 C9-C40	10.672	(2.554-18.790)		23138323	2905.6	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		23138323	NC	
A 58 C16-C24	10.730	(8.612-12.848)		6381488	651.1	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		23132903	2904.9	
$ 34 p-Terphenyl	11.903	11.908	-0.005	139644	11.7	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		23105029	2901.4	
36 Tricosane	12.405	12.394	0.011	1430718	NC	
A 66 C13-C40	12.655	(6.521-18.790)		23084408	2898.9	
37 n-Tetracosane	12.849	12.848	0.001	1078284	NC	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		20294692	2674.1	
38 C25	13.293	13.284	0.009	470014	NC	
A 19 C16-C40	13.701	(8.612-18.790)		22933563	2881.3	
46 n-Hexacosane		13.705			ND	
A 20 C19-C36	13.807	(10.381-17.234)		18500289	2144.1	
A 55 C23-C32	14.172	(12.394-15.951)		11123090	2339.1	
39 n-Octacosane	14.440	14.504	-0.064	3083106	NC	M
65 C29	14.918	14.883	0.035	1136875	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		12749265	2092.7	
A 40 C24-C36	15.041	(12.848-17.234)		12749265	2092.7	
A 50 C25-C36	15.259	(13.284-17.234)		11534607	1993.7	
A 10 C22-C40	15.356	(11.922-18.790)		17677543	2114.5	
A 41 C23-C40	15.592	(12.394-18.790)		16512595	2013.4	
A 8 C24-C40	15.819	(12.848-18.790)		15255275	1917.6	
56 Dotriacontane	15.946	15.951	-0.005	513033	NC	
A 51 C28-C40	16.647	(14.504-18.790)		10431388	2114.7	
A 63 C29-C40	16.836	(14.883-18.790)		9133882	2093.1	
42 n-Hexatriacontane		17.234			ND	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

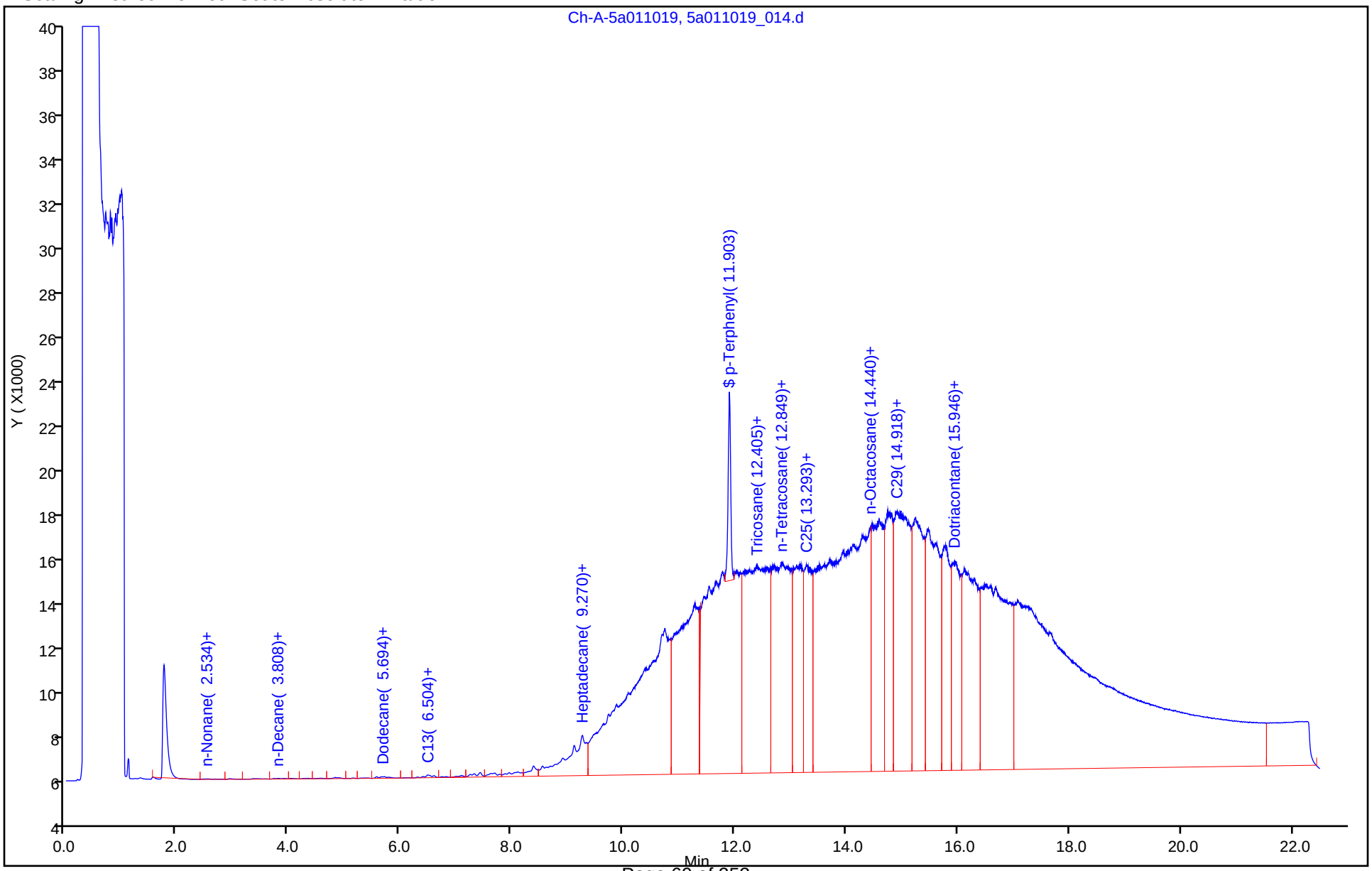
Report Date: 11-Jan-2019 13:18:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_014.d

Injection Date:	10-Jan-2019 21:57:04	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-10-B	Lab Sample ID:	720-90640-10	Worklist Smp#:	14
Client ID:	DG-AD5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_014.d				
Lims ID:	720-90640-E-10-B				
Client ID:	DG-AD5S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 21:57:04	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 004 Name: 720-0056023-014				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:18:55	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:18:55

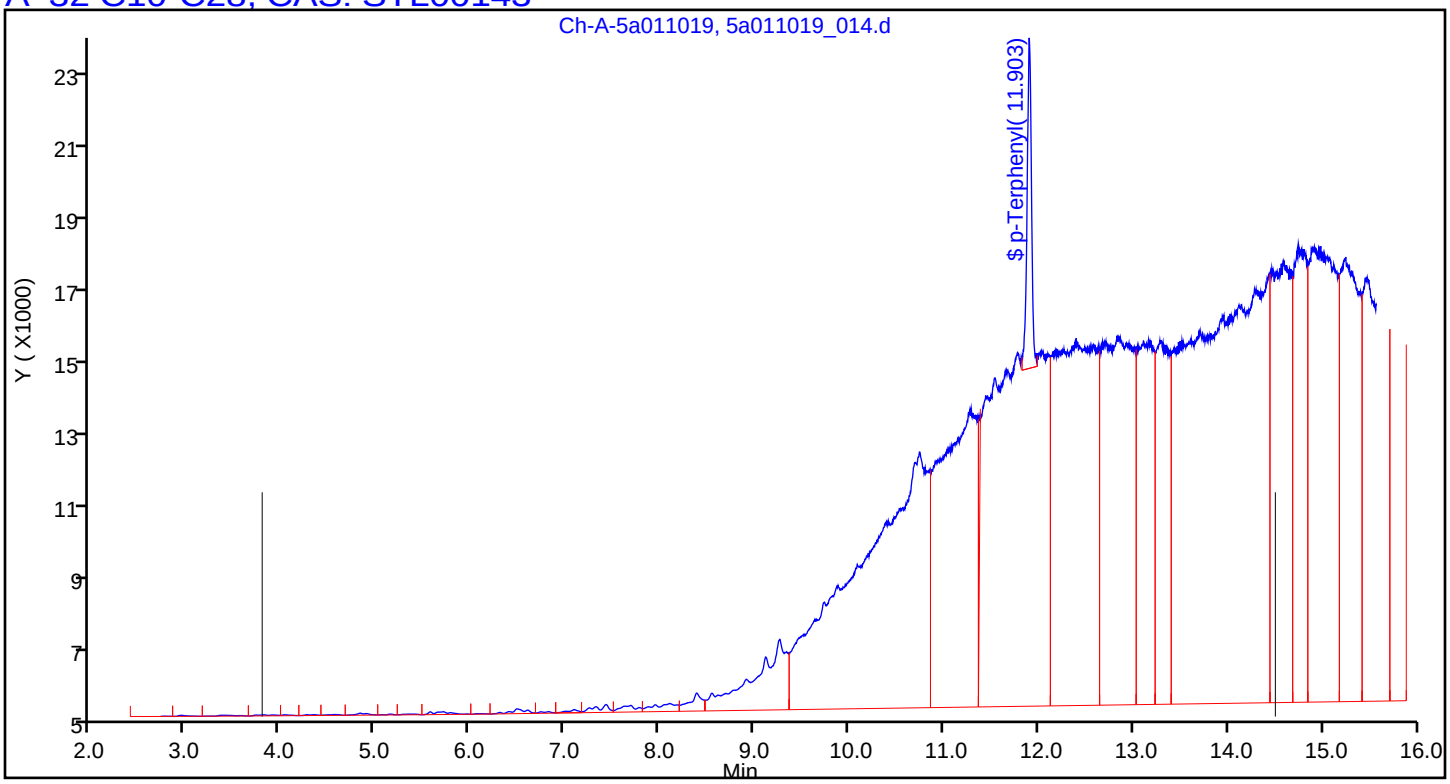
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	11.7	93.68

Report Date: 11-Jan-2019 13:18:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_014.d				
Injection Date:	10-Jan-2019 21:57:04	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-10-B	Lab Sample ID:	720-90640-10		
Client ID:	DG-AD5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

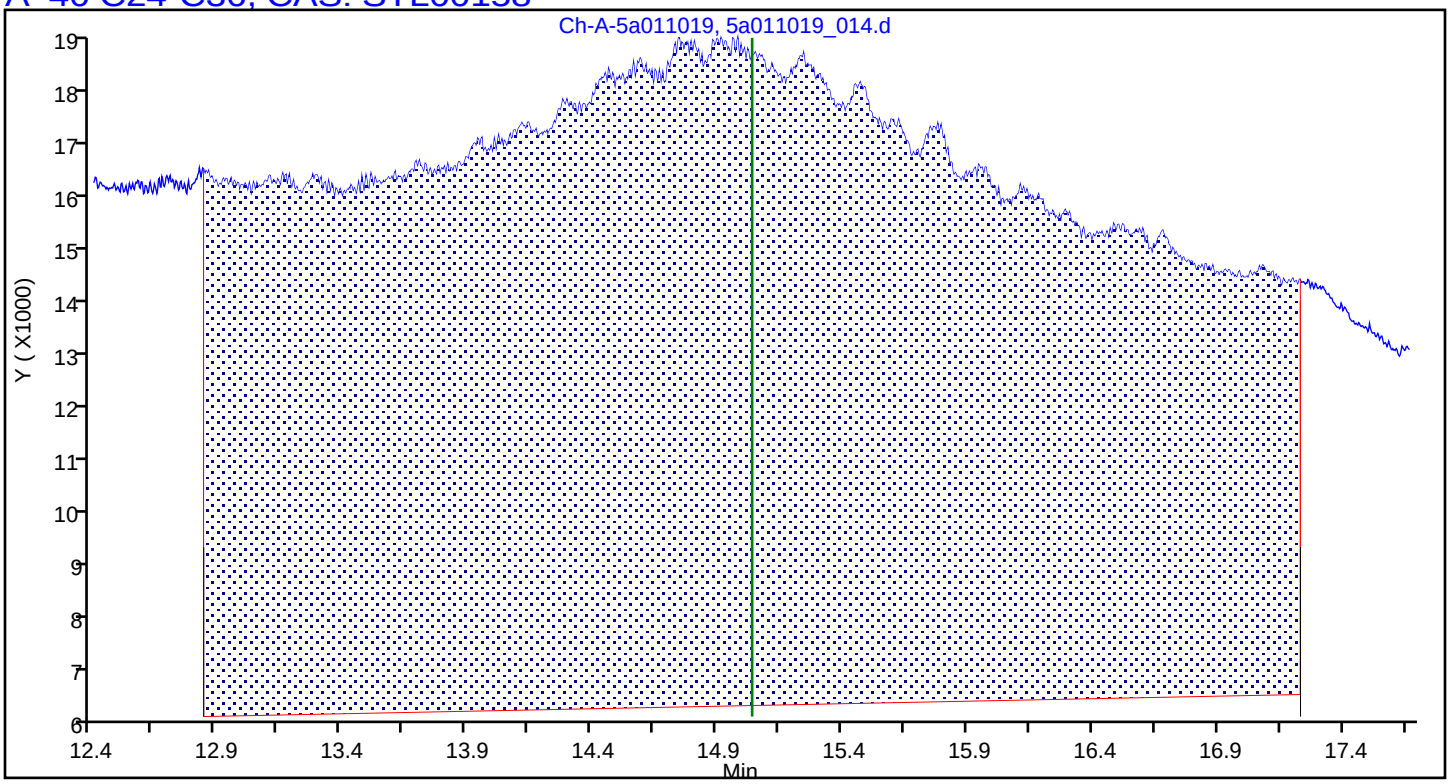


Report Date: 11-Jan-2019 13:18:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_014.d				
Injection Date:	10-Jan-2019 21:57:04	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-10-B	Lab Sample ID:	720-90640-10		
Client ID:	DG-AD5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

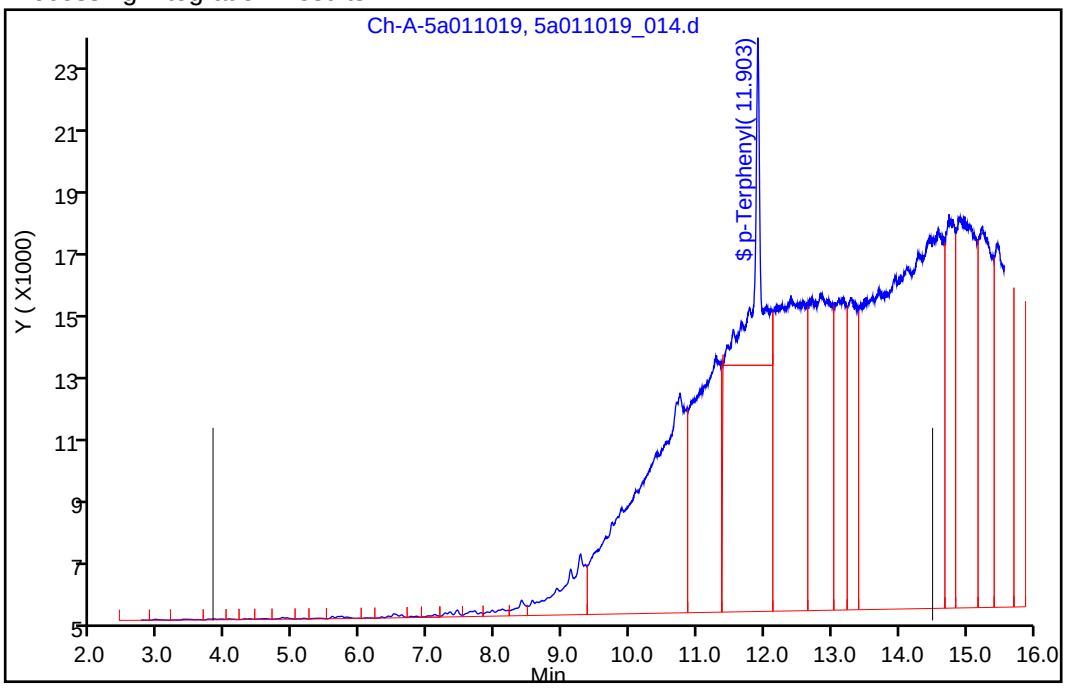
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_014.d				
Injection Date:	10-Jan-2019 21:57:04	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-10-B	Lab Sample ID:	720-90640-10		
Client ID:	DG-AD5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.151, CAS: STL00143

Signal: 1

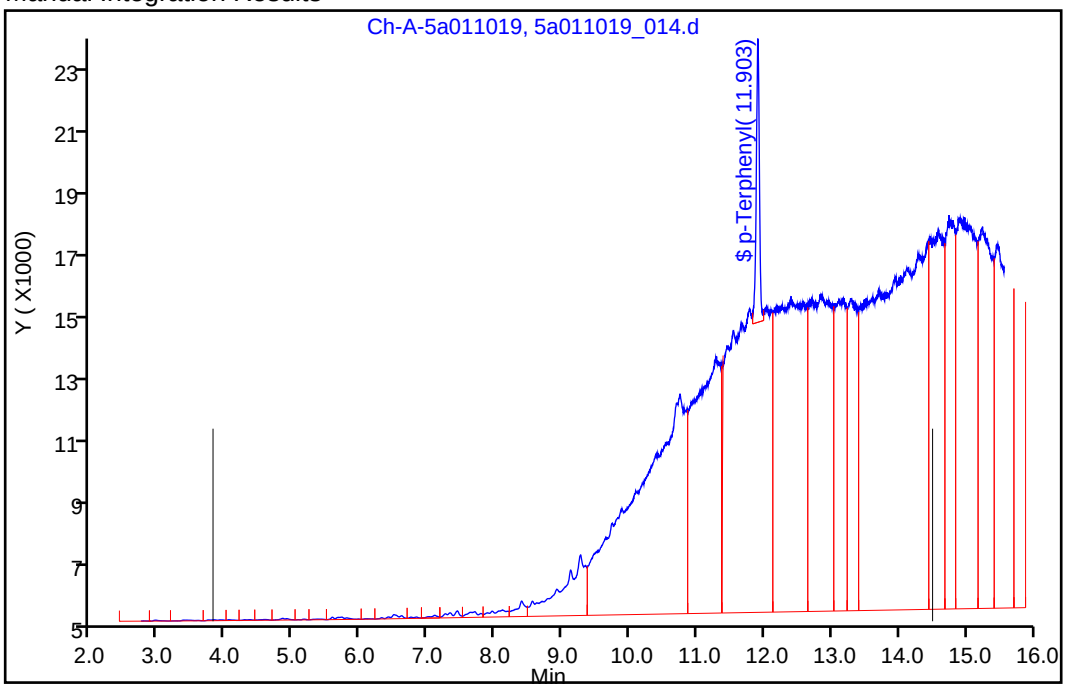
Processing Integration Results

RT: 9.15
Response: 8304227
Amount: 847.2825



Manual Integration Results

RT: 9.15
Response: 11650081
Amount: 1188.6609



Reviewer: luj, 11-Jan-2019 13:18:31

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

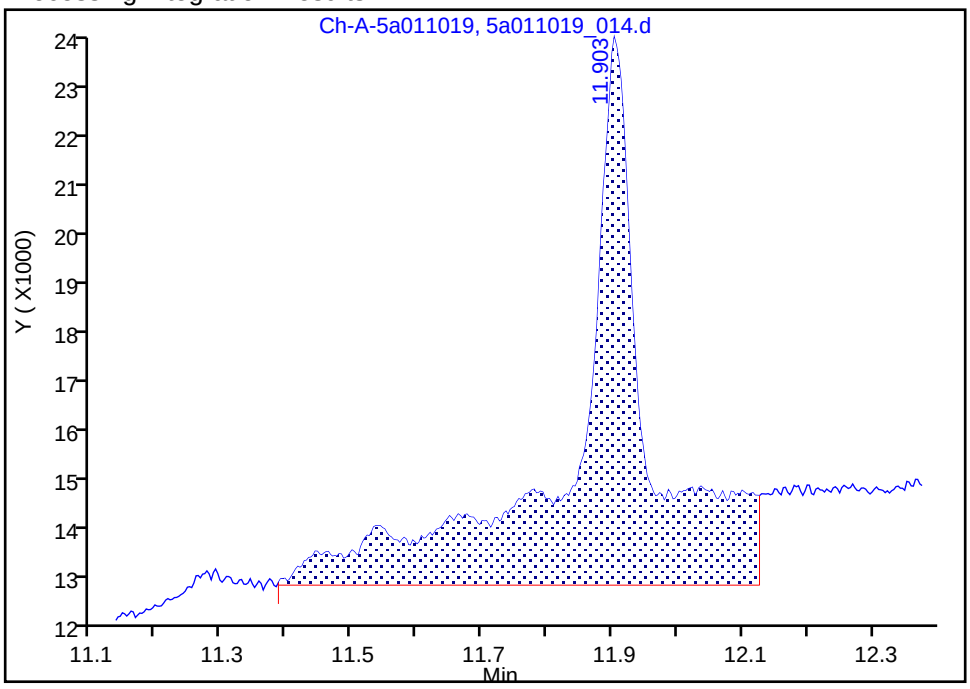
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_014.d				
Injection Date:	10-Jan-2019 21:57:04	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-10-B	Lab Sample ID:	720-90640-10		
Client ID:	DG-AD5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

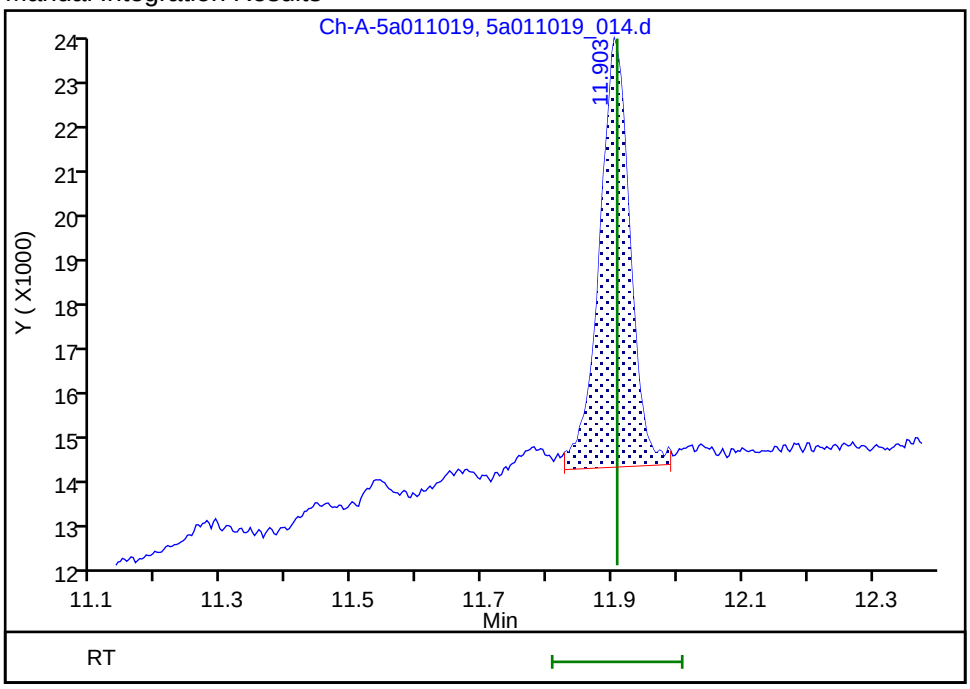
Processing Integration Results

RT: 11.90
Area: 399448
Amount: 33.496930
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 139644
Amount: 11.710273
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:18:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_009.d
Lims ID: 720-90640-E-11-B
Client ID: DG-AD5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 19:30:41 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056023-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:14:47 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:14:47

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.470	2.554	-0.084	498	NC	
	23 n-Decane	3.826	3.799	0.027	1013	NC	
A	1 C9-C13	4.538	(2.554-6.521)		24650	NC	
A	21 Stoddard Solvent	4.538	(2.554-6.521)		24650	NC	
A	57 C10-C12	4.758	(3.799-5.716)		14677	1.50	
	24 Dodecane	5.716	5.716	0.000	3133	NC	
A	3 C9 - C17	5.902	(2.554-9.250)		55822	4.61	
A	47 C9 - C18	6.199	(2.554-9.843)		98190	9.12	
A	60 C10-C16	6.206	(3.799-8.612)		46230	4.19	
A	15 Kerosene	6.468	(2.554-10.381)		160005	14.8	
A	25 C9-C19	6.468	(2.554-10.381)		160005	13.1	
	26 C13	6.434	6.521	-0.087	5065	NC	
$	27 n-Decanoic Acid (Surr)		7.163			ND	U
A	59 C12-C16	7.164	(5.716-8.612)		34686	3.54	
A	62 C10-C20	7.358	(3.799-10.917)		274298	28.0	
A	28 C9-C24	7.701	(2.554-12.848)		617628	63.0	
A	29 C9-C25	7.919	(2.554-13.284)		645846	65.9	
A	54 C10-C23	8.097	(3.799-12.394)		506138	51.6	
A	4 C10-C24	8.323	(3.799-12.848)		614334	62.7	
A	16 C10-C25	8.542	(3.799-13.284)		642552	65.6	
	45 Hexadecane	8.612	8.612	0.000	6298	NC	
A	14 C10-C26	8.752	(3.799-13.705)		824250	84.1	
A	67 C12-C22	8.819	(5.716-11.922)		468771	47.8	
A	12 Unknown Hydrocarbons	9.151	(3.799-14.504)		1102024	NC	
A	32 C10-C28	9.151	(3.799-14.504)		1102024	112.4	
A	5 Diesel	9.151	(3.799-14.504)		1102024	112.4	
A	30 C13-C22	9.222	(6.521-11.922)		464024	47.3	
	44 Heptadecane	9.259	9.250	0.009	24685	NC	
A	31 C12-C24	9.282	(5.716-12.848)		602790	61.5	
	49 n-Octadecane	9.859	9.843	0.016	18207	NC	
A	9 Crude Oil Range Organics (	9.894	(2.554-17.234)		2499059	NC	
A	52 Mineral oil	9.894	(2.554-17.234)		2499059	223.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		2561365	NC	
33 C19		10.381			ND	
A 64 C13-C28	10.512	(6.521-14.504)		1085733	110.8	
A 17 C10-C36	10.517	(3.799-17.234)		2558071	261.0	
A 13 C9-C40	10.672	(2.554-18.790)		2978959	336.2	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		2978959	NC	
A 58 C16-C24	10.730	(8.612-12.848)		568104	58.0	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		2974508	336.1	
$ 34 p-Terphenyl	11.900	11.908	-0.008	312651	26.2	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		2955886	334.3	
36 Tricosane	12.395	12.394	0.001	25427	NC	
A 66 C13-C40	12.655	(6.521-18.790)		2944814	333.0	
37 n-Tetracosane		12.848			ND	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		2418496	318.7	
38 C25	13.286	13.284	0.002	66659	NC	
A 19 C16-C40	13.701	(8.612-18.790)		2898396	327.5	
46 n-Hexacosane		13.705			ND	
A 20 C19-C36	13.807	(10.381-17.234)		2004721	232.3	
A 55 C23-C32	14.172	(12.394-15.951)		1242665	261.3	
39 n-Octacosane	14.416	14.504	-0.088	144398	NC	
65 C29	14.881	14.883	-0.002	124192	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		1624857	266.7	
A 40 C24-C36	15.041	(12.848-17.234)		1624857	266.7	
A 50 C25-C36	15.259	(13.284-17.234)		1549033	267.7	
A 10 C22-C40	15.356	(11.922-18.790)		1910149	228.5	
A 41 C23-C40	15.592	(12.394-18.790)		2110834	257.4	
A 8 C24-C40	15.819	(12.848-18.790)		2038443	256.2	
56 Dotriacontane	15.900	15.951	-0.051	131891	NC	
A 51 C28-C40	16.647	(14.504-18.790)		1604907	235.9	
A 63 C29-C40	16.836	(14.883-18.790)		1474218	236.5	
42 n-Hexatriacontane		17.234			ND	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

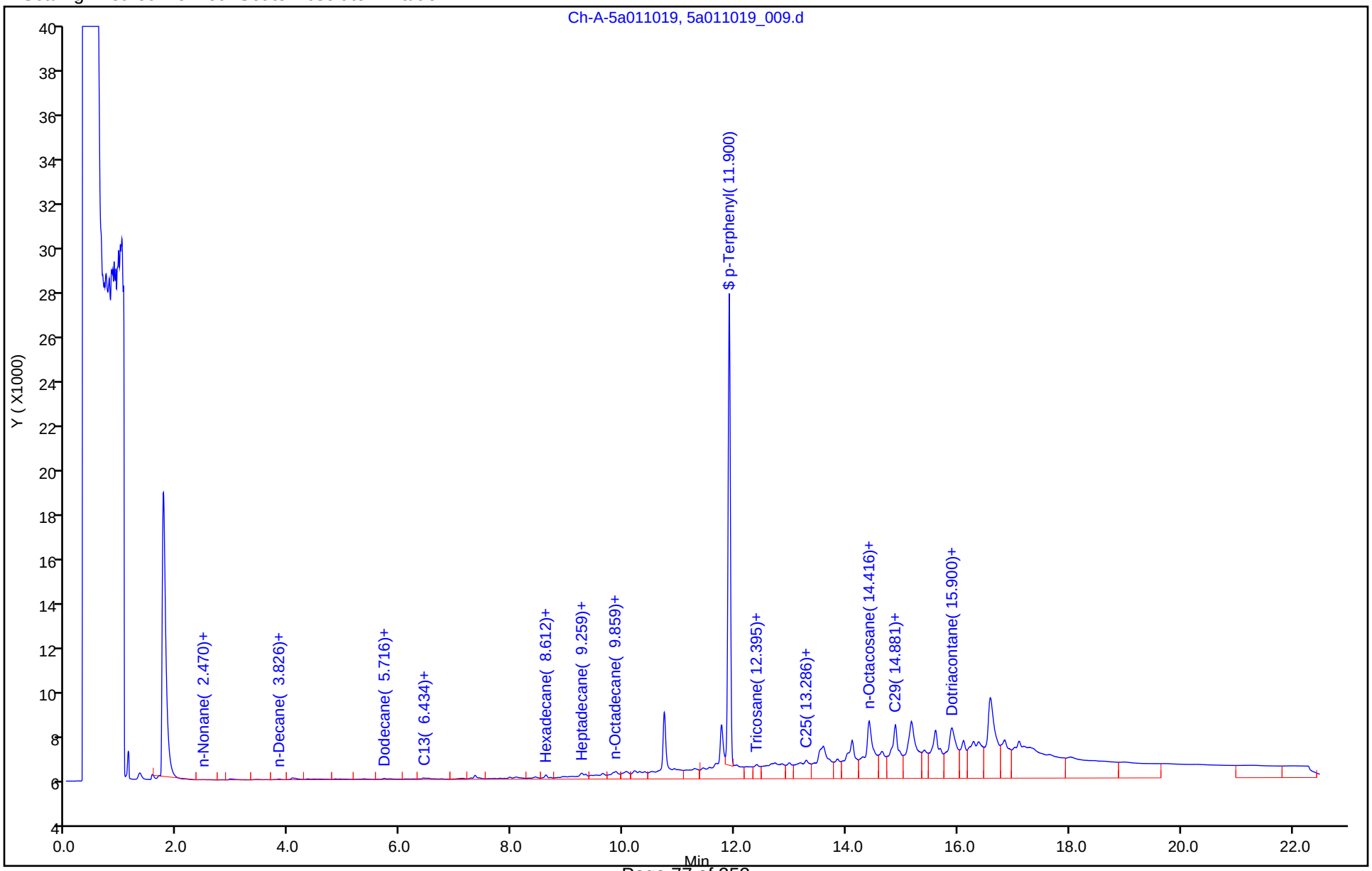
Report Date: 11-Jan-2019 13:14:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_009.d

Injection Date:	10-Jan-2019 19:30:41	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-11-B	Lab Sample ID:	720-90640-11	Worklist Smp#:	9
Client ID:	DG-AD5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_009.d				
Lims ID:	720-90640-E-11-B				
Client ID:	DG-AD5S-3.5-4				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 19:30:41	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056023-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:14:47	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:14:47

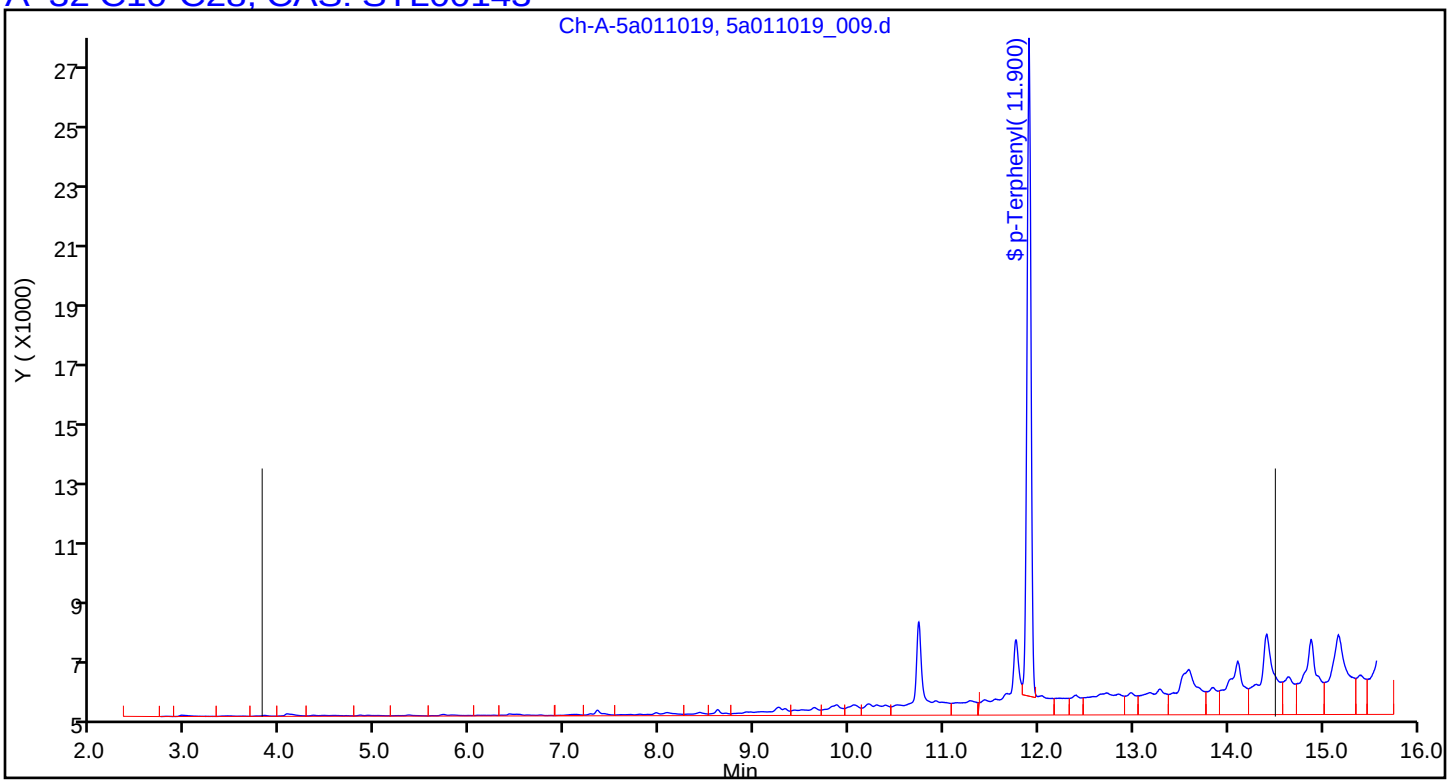
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.2	104.87

Report Date: 11-Jan-2019 13:14:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_009.d				
Injection Date:	10-Jan-2019 19:30:41	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-11-B	Lab Sample ID:	720-90640-11		
Client ID:	DG-AD5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

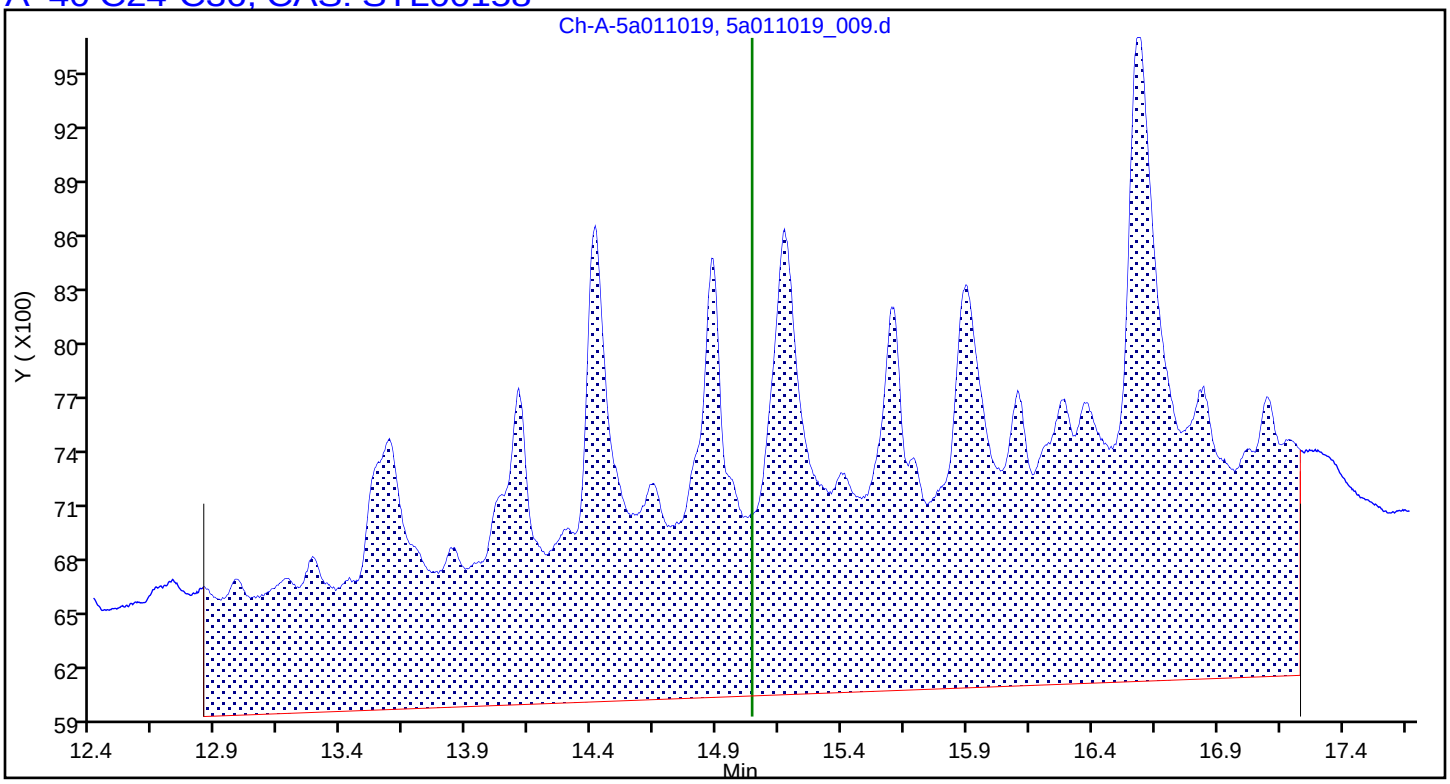


Report Date: 11-Jan-2019 13:14:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_009.d				
Injection Date:	10-Jan-2019 19:30:41	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-11-B	Lab Sample ID:	720-90640-11		
Client ID:	DG-AD5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

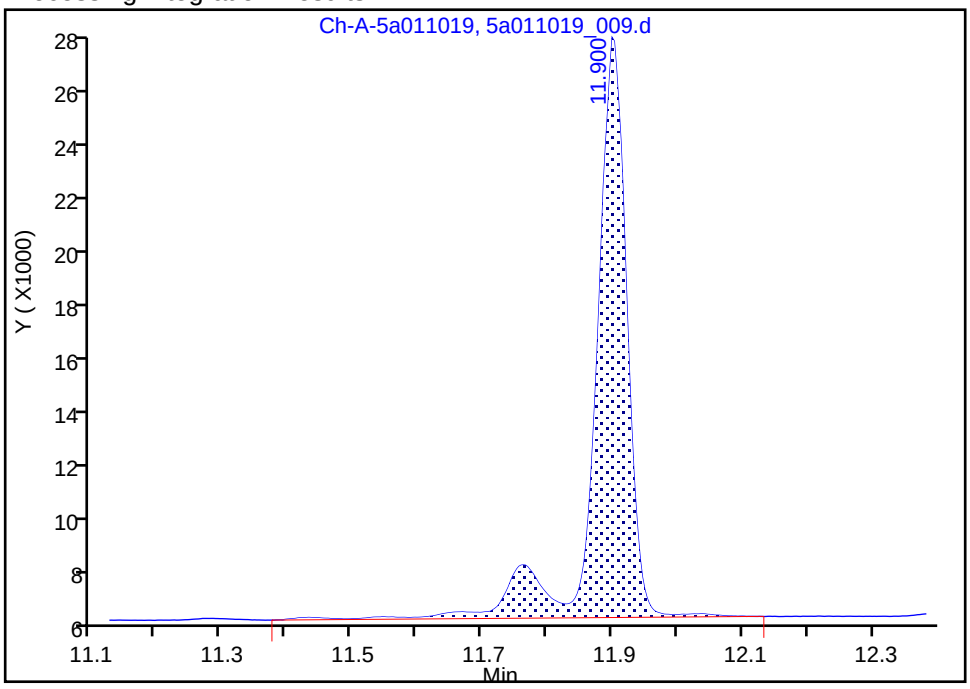
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_009.d				
Injection Date:	10-Jan-2019 19:30:41	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-11-B	Lab Sample ID:	720-90640-11		
Client ID:	DG-AD5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

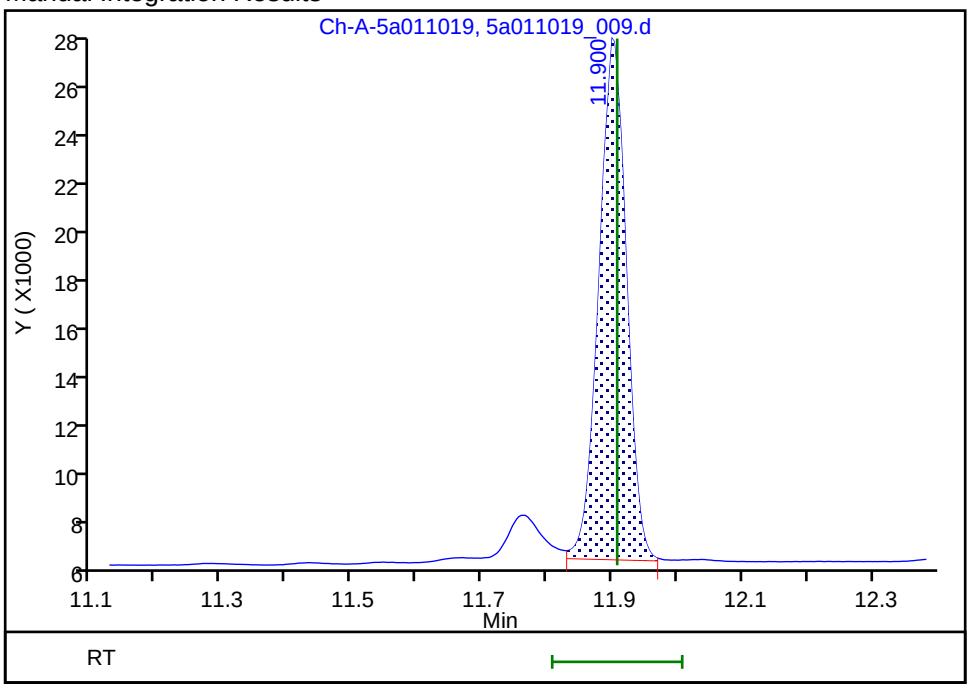
Processing Integration Results

RT: 11.90
Area: 368580
Amount: 30.908400
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 312651
Amount: 26.218303
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:14:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_015.d
Lims ID: 720-90640-E-12-B
Client ID: DG-AF5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 22:26:13 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 005 Name: 720-0056023-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:19:49 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:19:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.457	2.554	-0.097	2318	NC	
23 n-Decane	3.809	3.799	0.010	2063	NC	
A 1 C9-C13	4.538	(2.554-6.521)		51488	NC	
A 21 Stoddard Solvent	4.538	(2.554-6.521)		51488	NC	
A 57 C10-C12	4.758	(3.799-5.716)		21157	2.16	
24 Dodecane		5.716			ND	
A 3 C9 - C17	5.902	(2.554-9.250)		276540	22.8	
A 47 C9 - C18	6.199	(2.554-9.843)		505721	47.0	
A 60 C10-C16	6.206	(3.799-8.612)		222322	20.2	
A 15 Kerosene	6.468	(2.554-10.381)		851659	79.0	
A 25 C9-C19	6.468	(2.554-10.381)		851659	69.8	
26 C13	6.500	6.521	-0.021	23207	NC	
$ 27 n-Decanoic Acid (Surr)		7.163			ND	U
A 59 C12-C16	7.164	(5.716-8.612)		211630	21.6	
A 62 C10-C20	7.358	(3.799-10.917)		1770937	180.7	
A 28 C9-C24	7.701	(2.554-12.848)		4843454	494.2	
A 29 C9-C25	7.919	(2.554-13.284)		6744053	688.1	
A 54 C10-C23	8.097	(3.799-12.394)		3883561	396.2	
A 4 C10-C24	8.323	(3.799-12.848)		4838602	493.7	
A 16 C10-C25	8.542	(3.799-13.284)		6739201	687.6	
45 Hexadecane	8.614	8.612	0.002	49366	NC	
A 14 C10-C26	8.752	(3.799-13.705)		6739201	687.6	
A 67 C12-C22	8.819	(5.716-11.922)		3872869	395.1	
A 12 Unknown Hydrocarbons	9.151	(3.799-14.504)		11026484	NC	
A 32 C10-C28	9.151	(3.799-14.504)		11026484	1125.0	
A 5 Diesel	9.151	(3.799-14.504)		11026484	1125.0	
A 30 C13-C22	9.222	(6.521-11.922)		3860132	393.9	
44 Heptadecane	9.261	9.250	0.011	229181	NC	
A 31 C12-C24	9.282	(5.716-12.848)		4827910	492.6	
49 n-Octadecane	9.862	9.843	0.019	345938	NC	
A 9 Crude Oil Range Organics (	9.894	(2.554-17.234)		21548752	NC	
A 52 Mineral oil	9.894	(2.554-17.234)		21548752	1923.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		26452174	NC	
33 C19	10.391	10.381	0.010	420999	NC	
A 64 C13-C28	10.512	(6.521-14.504)		11003055	1122.6	
A 17 C10-C36	10.517	(3.799-17.234)		26447322	2698.4	
A 13 C9-C40	10.672	(2.554-18.790)		24735608	3109.2	E
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		24735608	NC	
A 58 C16-C24	10.730	(8.612-12.848)		4616280	471.0	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		24727484	3108.1	E
$ 34 p-Terphenyl	11.907	11.908	-0.001	145468	12.2	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		24679583	3102.0	E
36 Tricosane	12.414	12.394	0.020	955041	NC	
A 66 C13-C40	12.655	(6.521-18.790)		24642137	3097.4	E
37 n-Tetracosane		12.848			ND	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		21139831	2785.4	
38 C25		13.284			ND	
A 19 C16-C40	13.701	(8.612-18.790)		24326687	3058.9	E
46 n-Hexacosane		13.705			ND	
A 20 C19-C36	13.807	(10.381-17.234)		19295117	2236.2	
A 55 C23-C32	14.172	(12.394-15.951)		12559225	2641.1	
39 n-Octacosane	14.449	14.504	-0.055	4287283	NC	
65 C29		14.883			ND	
A 7 Motor Oil	15.041	(12.848-17.234)		14840921	2436.1	
A 40 C24-C36	15.041	(12.848-17.234)		14840921	2436.1	
A 50 C25-C36	15.259	(13.284-17.234)		13664165	2361.8	
A 10 C22-C40	15.356	(11.922-18.790)		19852895	2374.7	
A 41 C23-C40	15.592	(12.394-18.790)		18954164	2311.1	
A 8 C24-C40	15.819	(12.848-18.790)		17850317	2243.8	
56 Dotriacontane	15.958	15.951	0.007	573648	NC	
A 51 C28-C40	16.647	(14.504-18.790)		12612786	2924.8	
A 63 C29-C40	16.836	(14.883-18.790)		11024162	3010.7	E
42 n-Hexatriacontane		17.234			ND	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

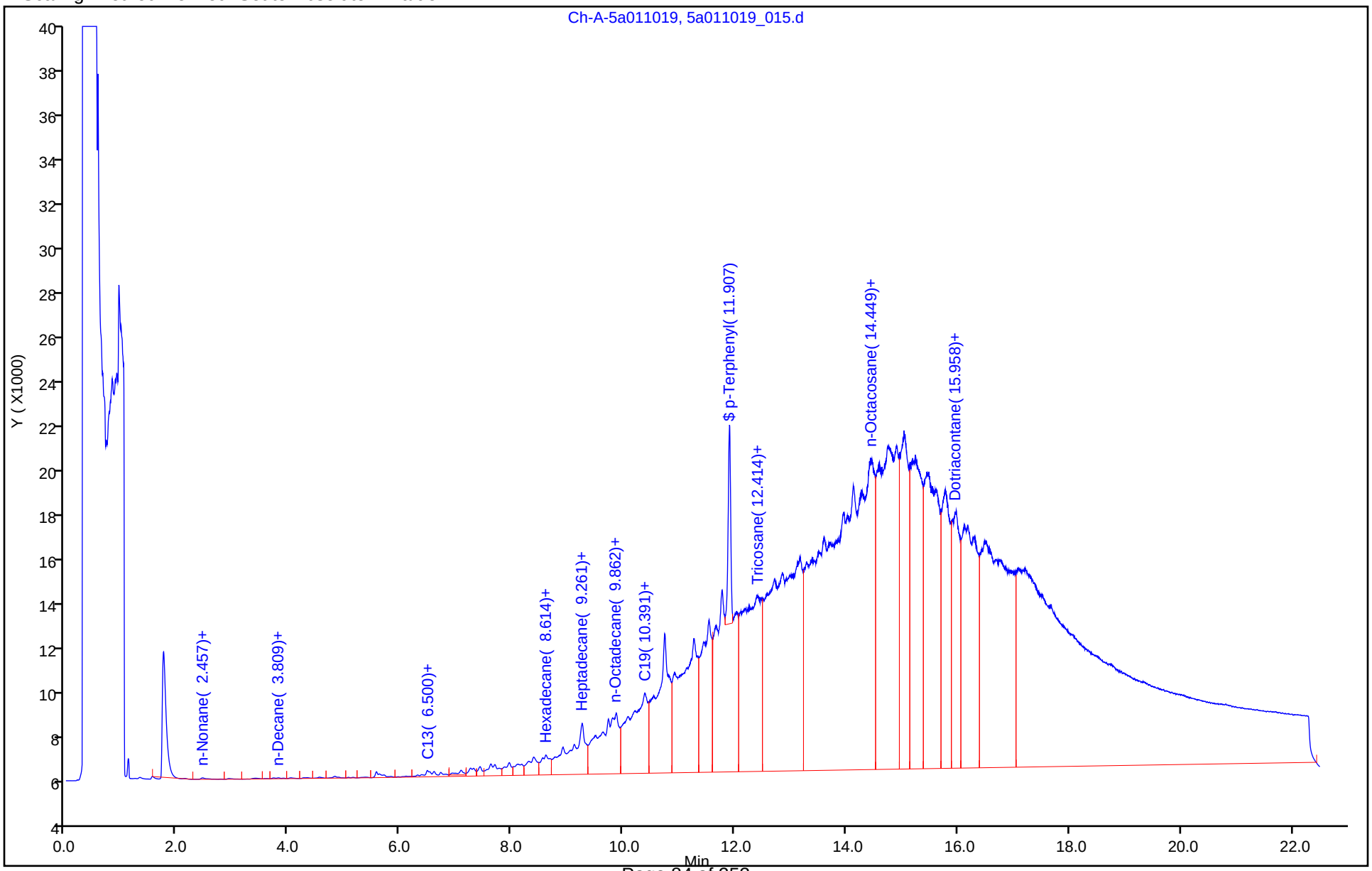
U - Marked Undetected

Report Date: 11-Jan-2019 13:19:50 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_015.d				
Injection Date:	10-Jan-2019 22:26:13	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-12-B	Lab Sample ID:	720-90640-12	Worklist Smp#:	15
Client ID:	DG-AF5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_015.d				
Lims ID:	720-90640-E-12-B				
Client ID:	DG-AF5S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 22:26:13	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 005 Name: 720-0056023-015				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:19:49	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:19:49

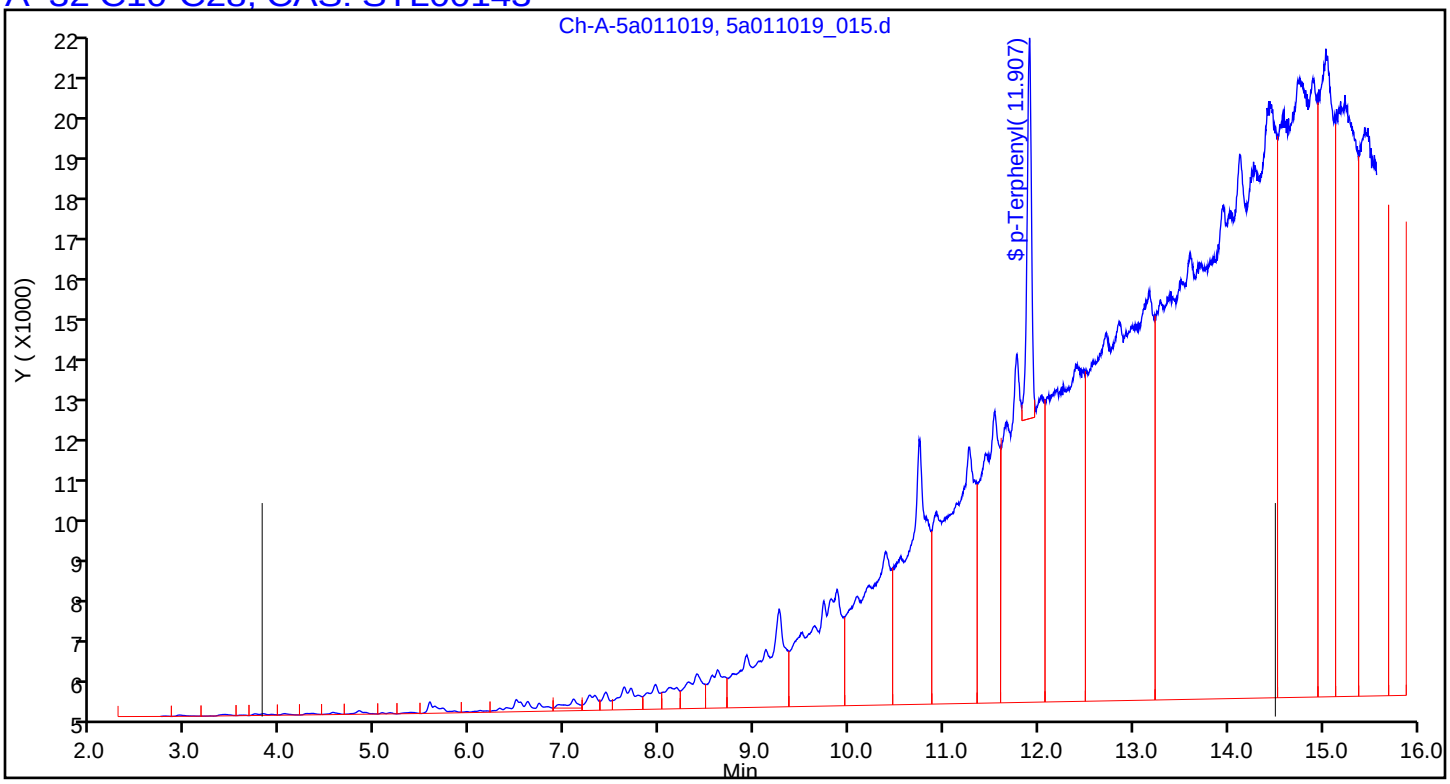
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	12.2	97.59

Report Date: 11-Jan-2019 13:19:50 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_015.d				
Injection Date:	10-Jan-2019 22:26:13	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-12-B	Lab Sample ID:	720-90640-12		
Client ID:	DG-AF5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

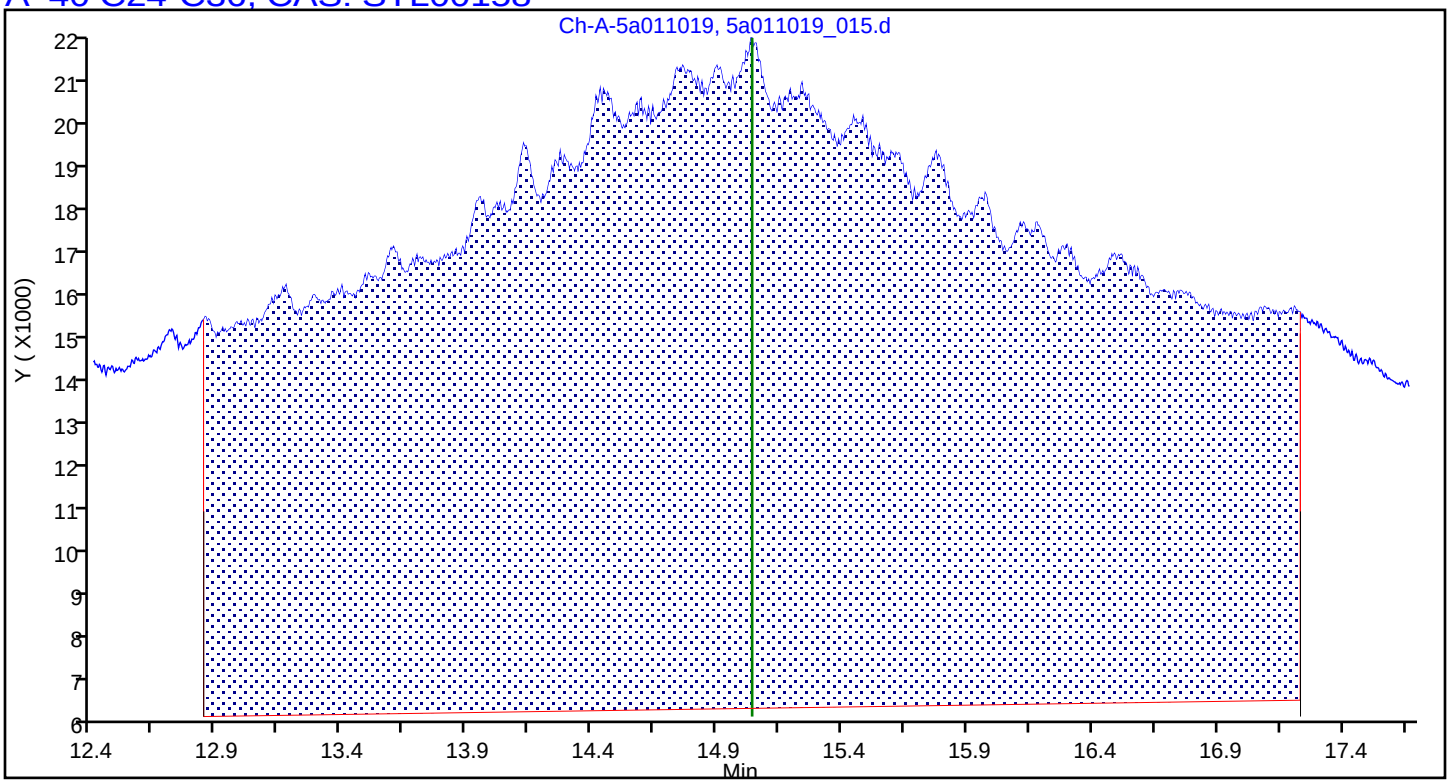


Report Date: 11-Jan-2019 13:19:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_015.d				
Injection Date:	10-Jan-2019 22:26:13	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-12-B	Lab Sample ID:	720-90640-12		
Client ID:	DG-AF5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

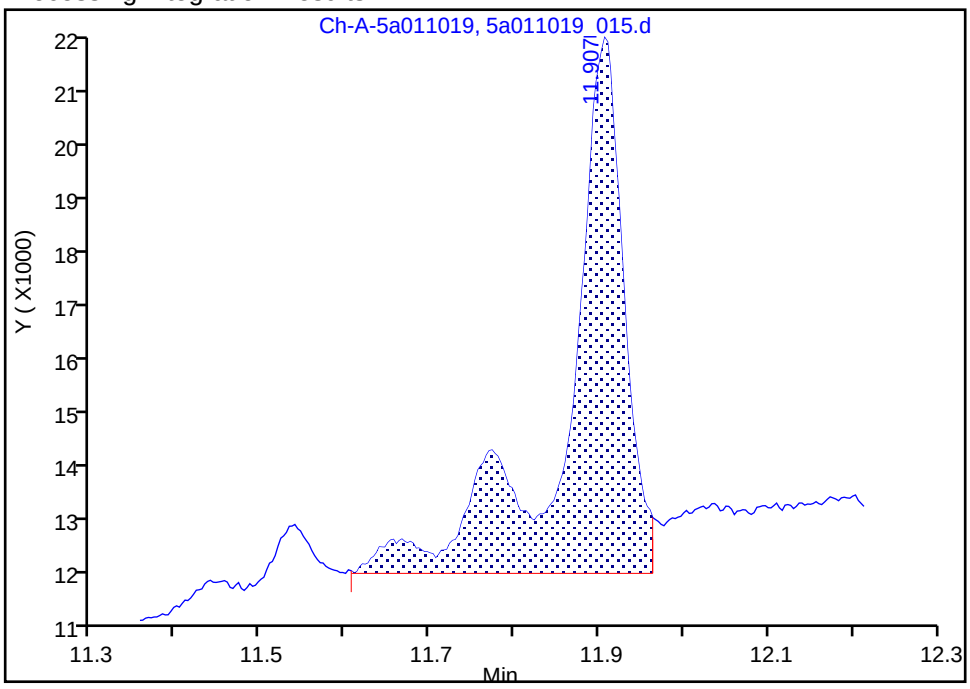
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_015.d				
Injection Date:	10-Jan-2019 22:26:13	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-12-B	Lab Sample ID:	720-90640-12		
Client ID:	DG-AF5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

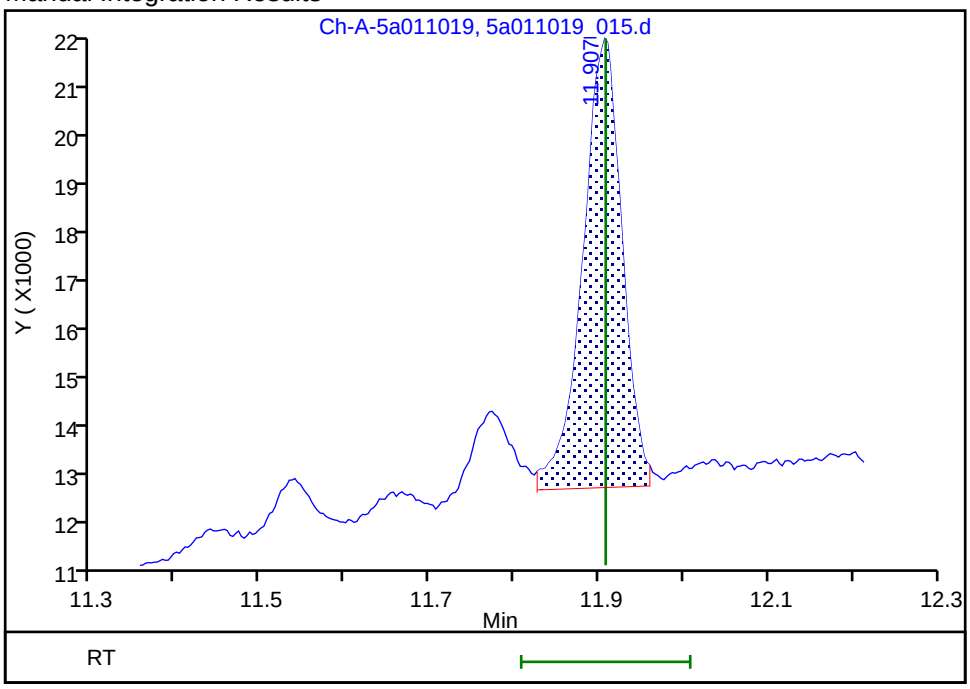
Processing Integration Results

RT: 11.91
Area: 233060
Amount: 19.543957
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 145468
Amount: 12.198663
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:19:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_010.d
Lims ID: 720-90640-E-13-B
Client ID: DG-AF5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 19:59:55 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 038 Name: 720-0056023-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:15:19 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:15:19

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.473	2.554	-0.081	314	NC	
23 n-Decane	3.832	3.799	0.033	590	NC	
A 1 C9-C13	4.538	(2.554-6.521)		14687	NC	
A 21 Stoddard Solvent	4.538	(2.554-6.521)		14687	NC	
A 57 C10-C12	4.758	(3.799-5.716)		9721	0.99	
24 Dodecane	5.727	5.716	0.011	717	NC	
A 3 C9 - C17	5.902	(2.554-9.250)		30382	2.51	
A 47 C9 - C18	6.199	(2.554-9.843)		36126	3.36	
A 60 C10-C16	6.206	(3.799-8.612)		23563	2.14	
A 15 Kerosene	6.468	(2.554-10.381)		55308	5.13	
A 25 C9-C19	6.468	(2.554-10.381)		55308	4.53	
26 C13	6.509	6.521	-0.012	1957	NC	
$ 27 n-Decanoic Acid (Surr)		7.163			ND	U
A 59 C12-C16	7.164	(5.716-8.612)		13842	1.41	
A 62 C10-C20	7.358	(3.799-10.917)		119563	12.2	
A 28 C9-C24	7.701	(2.554-12.848)		303674	31.0	
A 29 C9-C25	7.919	(2.554-13.284)		394924	40.3	
A 54 C10-C23	8.097	(3.799-12.394)		240565	24.5	
A 4 C10-C24	8.323	(3.799-12.848)		301382	30.8	
A 16 C10-C25	8.542	(3.799-13.284)		392632	40.1	
45 Hexadecane	8.612	8.612	0.000	2020	NC	
A 14 C10-C26	8.752	(3.799-13.705)		575583	58.7	
A 67 C12-C22	8.819	(5.716-11.922)		230844	23.6	
A 12 Unknown Hydrocarbons	9.151	(3.799-14.504)		806314	NC	
A 32 C10-C28	9.151	(3.799-14.504)		806314	82.3	
A 5 Diesel	9.151	(3.799-14.504)		806314	82.3	
A 30 C13-C22	9.222	(6.521-11.922)		230127	23.5	
44 Heptadecane	9.260	9.250	0.010	5744	NC	
A 31 C12-C24	9.282	(5.716-12.848)		291661	29.8	
49 n-Octadecane	9.863	9.843	0.020	13640	NC	
A 9 Crude Oil Range Organics (	9.894	(2.554-17.234)		2315812	NC	
A 52 Mineral oil	9.894	(2.554-17.234)		2315812	206.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		2808128	NC	
33 C19		10.381			ND	
A 64 C13-C28	10.512	(6.521-14.504)		795876	81.2	
A 17 C10-C36	10.517	(3.799-17.234)		2805836	286.3	
A 13 C9-C40	10.672	(2.554-18.790)		2850505	319.8	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		2850505	NC	
A 58 C16-C24	10.730	(8.612-12.848)		277819	28.3	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		2847159	319.9	
$ 34 p-Terphenyl	11.903	11.908	-0.005	308964	25.9	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		2831468	318.4	
36 Tricosane	12.398	12.394	0.004	60817	NC	
A 66 C13-C40	12.655	(6.521-18.790)		2825302	317.8	
37 n-Tetracosane	12.848	12.848	0.000	91250	NC	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		2254210	297.0	
38 C25	13.286	13.284	0.002	80022	NC	
A 19 C16-C40	13.701	(8.612-18.790)		2788903	313.6	
46 n-Hexacosane	13.703	13.705	-0.002	102929	NC	
A 20 C19-C36	13.807	(10.381-17.234)		1883690	218.3	
A 55 C23-C32	14.172	(12.394-15.951)		1321576	277.9	
39 n-Octacosane	14.461	14.504	-0.043	120996	NC	
65 C29	14.882	14.883	-0.001	179018	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		1607749	263.9	
A 40 C24-C36	15.041	(12.848-17.234)		1607749	263.9	
A 50 C25-C36	15.259	(13.284-17.234)		1519023	262.6	
A 10 C22-C40	15.356	(11.922-18.790)		1959443	234.4	
A 41 C23-C40	15.592	(12.394-18.790)		2151931	262.4	
A 8 C24-C40	15.819	(12.848-18.790)		2076128	261.0	
56 Dotriacontane	15.939	15.951	-0.012	81144	NC	
A 51 C28-C40	16.647	(14.504-18.790)		1638456	241.4	
A 63 C29-C40	16.836	(14.883-18.790)		1475182	236.7	
42 n-Hexatriacontane		17.234			ND	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

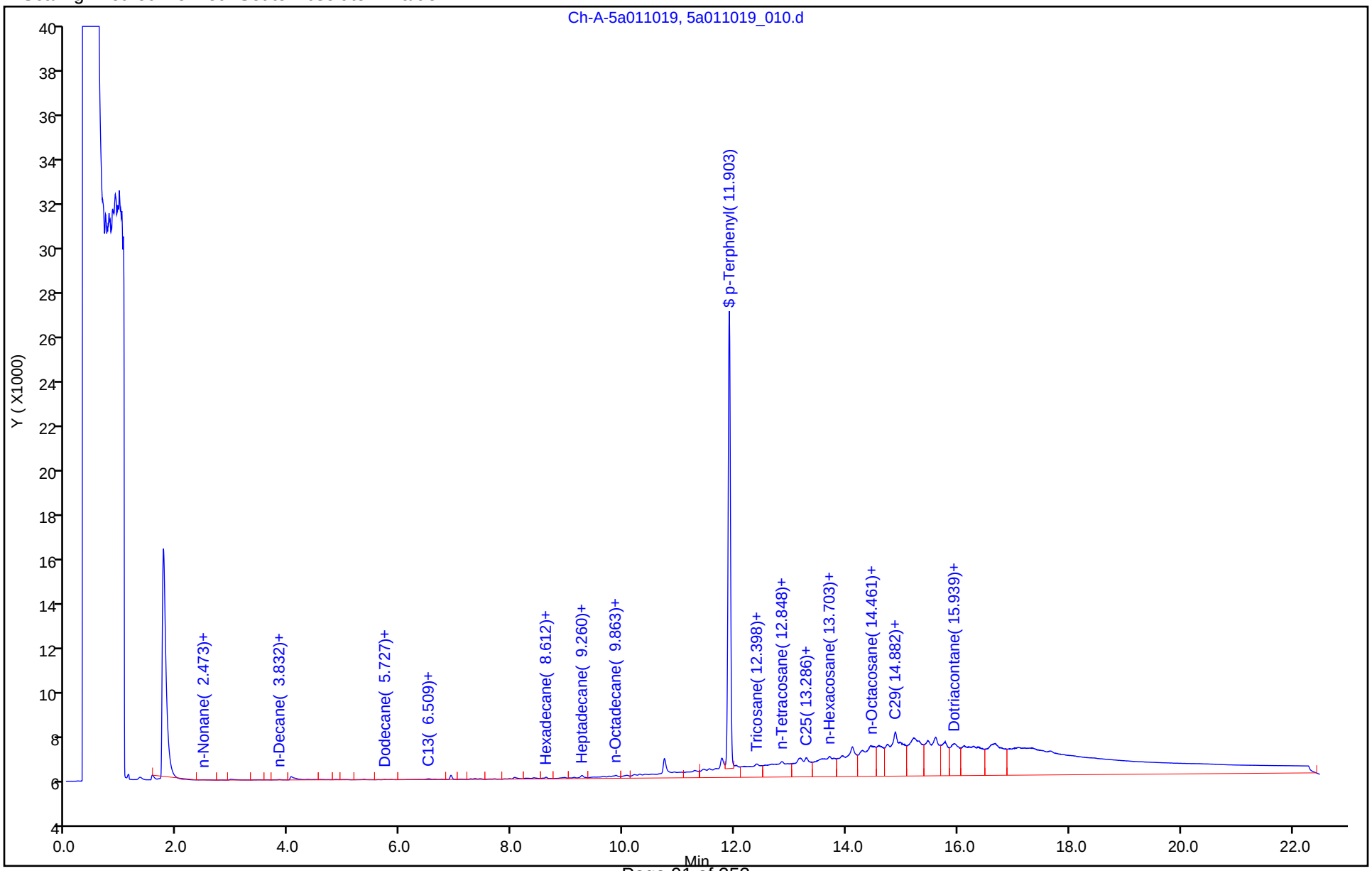
Report Date: 11-Jan-2019 13:15:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_010.d

Injection Date:	10-Jan-2019 19:59:55	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-13-B	Lab Sample ID:	720-90640-13	Worklist Smp#:	10
Client ID:	DG-AF5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_010.d				
Lims ID:	720-90640-E-13-B				
Client ID:	DG-AF5S-3.5-4				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 19:59:55	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 038 Name: 720-0056023-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:15:19	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:15:19

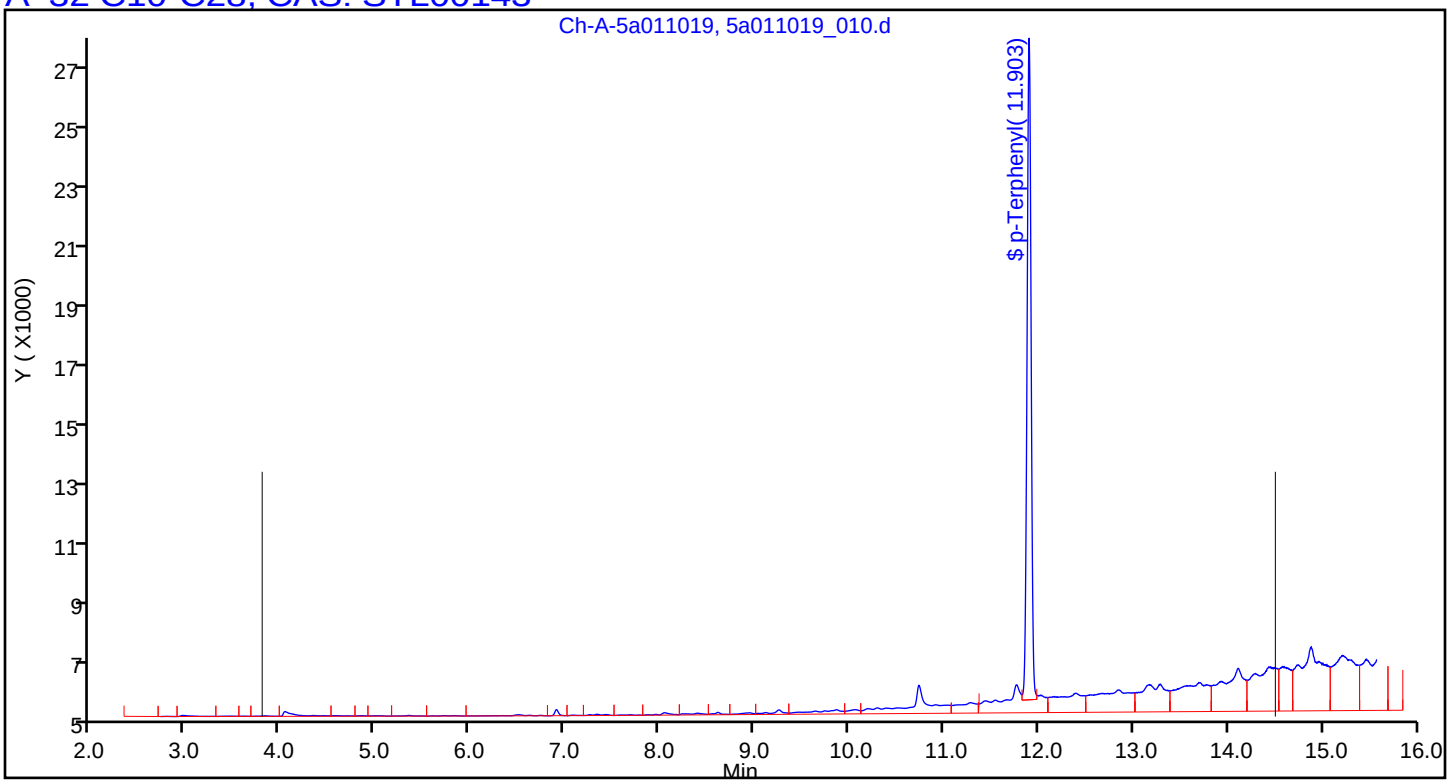
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.9	103.64

Report Date: 11-Jan-2019 13:15:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_010.d				
Injection Date:	10-Jan-2019 19:59:55	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-13-B	Lab Sample ID:	720-90640-13		
Client ID:	DG-AF5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

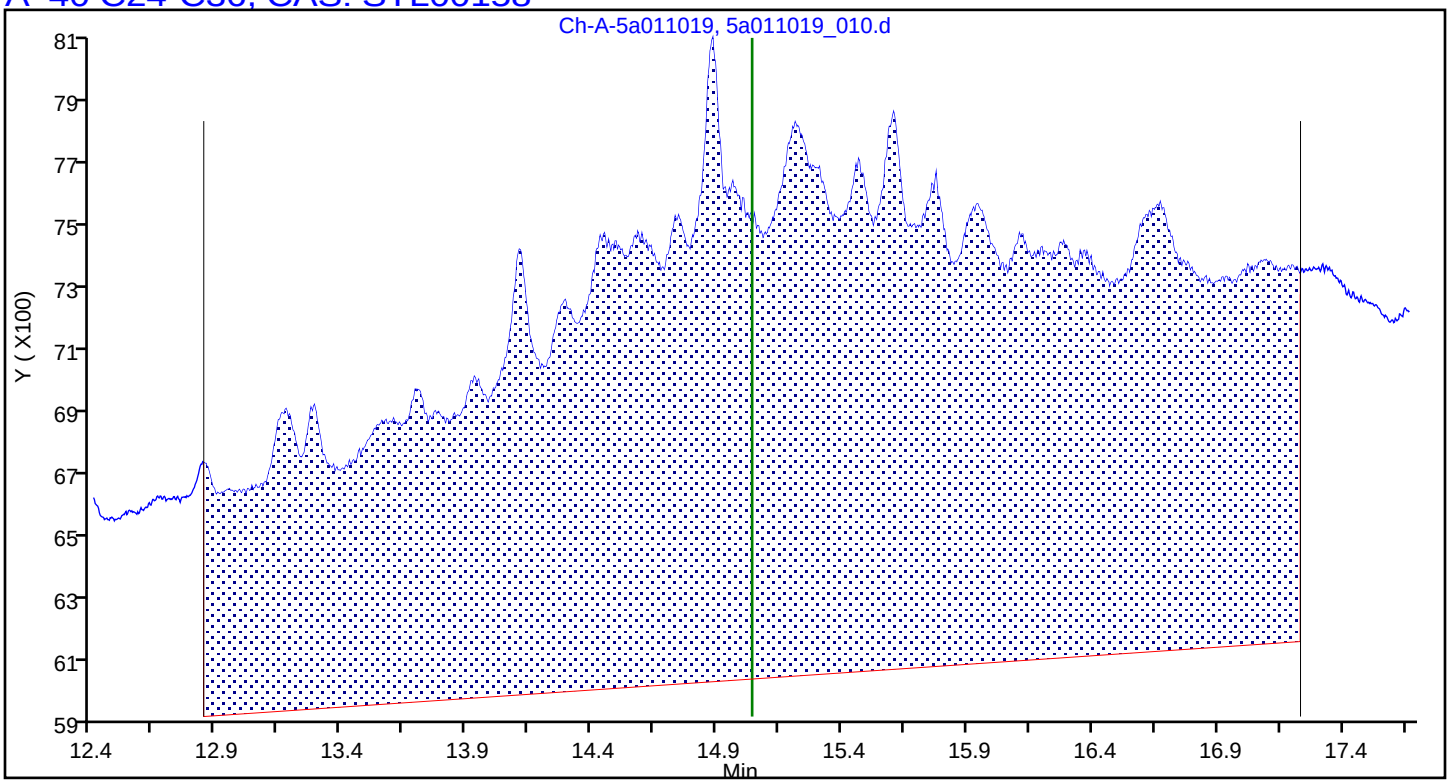


Report Date: 11-Jan-2019 13:15:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_010.d				
Injection Date:	10-Jan-2019 19:59:55	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-13-B	Lab Sample ID:	720-90640-13		
Client ID:	DG-AF5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

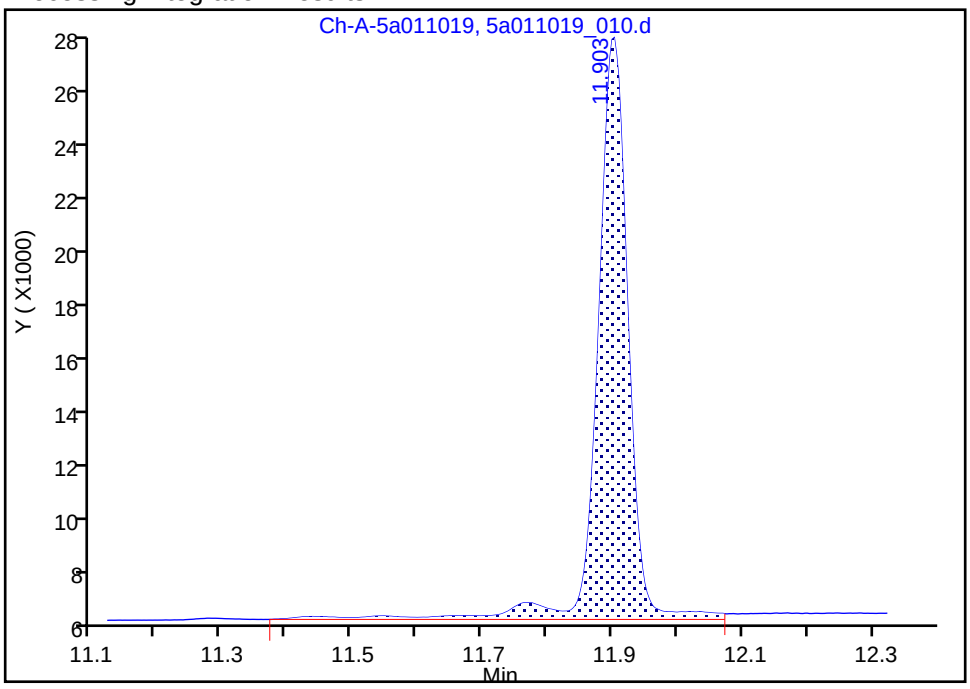
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_010.d				
Injection Date:	10-Jan-2019 19:59:55	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-13-B	Lab Sample ID:	720-90640-13		
Client ID:	DG-AF5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

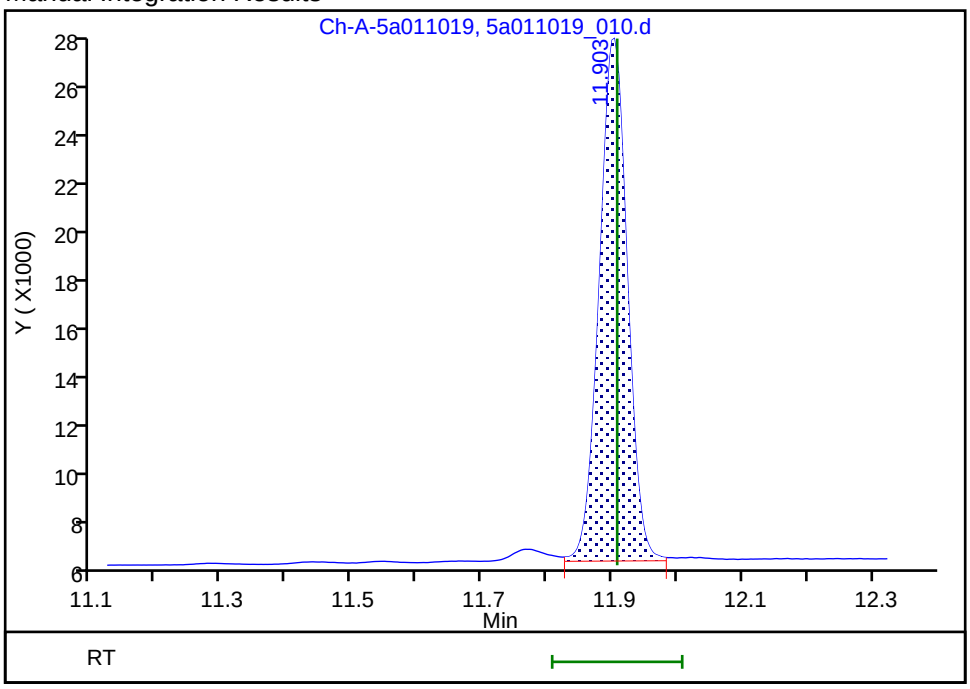
Processing Integration Results

RT: 11.90
Area: 343931
Amount: 28.841383
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 308964
Amount: 25.909118
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:15:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000024.D
Lims ID: 720-90640-E-14-B
Client ID: DG-AH5S-0.5-1
Sample Type: Client
Inject. Date: 11-Jan-2019 00:27:17 ALS Bottle#: 74 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-024
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:40:52 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:40:52

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.354	1.354	0.000	59655	NC	M
	23 n-Decane	2.207	2.206	0.001	567487	NC	M
A	21 Stoddard Solvent	2.809	(1.354-4.264)		13051988	5.48	M
A	1 C9-C13	2.809	(1.354-4.264)		13051988	NC	M
A	57 C10-C12	2.929	(2.206-3.652)		7321610	3.70	M
	24 Dodecane	3.656	3.652	0.004	388433	NC	M
A	3 C9 - C17	3.834	(1.354-6.313)		54324364	18.9	M
A	60 C10-C16	4.024	(2.206-5.842)		37832166	14.8	M
A	47 C9 - C18	4.056	(1.354-6.758)		72647700	32.0	M
	26 C13	4.268	4.264	0.004	1067511	NC	M
A	25 C9-C19	4.268	(1.354-7.181)		98112767	34.0	M
A	15 Kerosene	4.268	(1.354-7.181)		98112767	43.2	M
$	27 n-Decanoic Acid (Surr)		4.614			ND	U
A	59 C12-C16	4.747	(3.652-5.842)		30510556	15.4	M
A	61 C10-C20	4.897	(2.206-7.588)		155641039	78.7	M
A	28 C9-C24	5.204	(1.354-9.054)		470878093	238.1	M
A	29 C9-C25	5.370	(1.354-9.386)		531279342	268.7	M
A	54 C10-C23	5.457	(2.206-8.709)		368407894	186.3	M
A	4 C10-C24	5.630	(2.206-9.054)		469094197	237.2	M
A	16 C10-C25	5.796	(2.206-9.386)		529495446	267.8	M
	45 Hexadecane	5.847	5.842	0.005	2416134	NC	M
A	14 C10-C26	5.956	(2.206-9.706)		636185876	321.7	M
A	67 C12-C22	6.001	(3.652-8.350)		293042105	148.2	M
A	32 C10-C28	6.260	(2.206-10.314)		879739885	444.9	M
A	12 Unknown Hydrocarbons	6.260	(2.206-10.314)		879739885	NC	M
A	5 Diesel	6.260	(2.206-10.314)		879739885	444.9	M
A	30 C13-C22	6.307	(4.264-8.350)		289095623	146.2	M
	44 Heptadecane	6.358	6.313	0.045	8469774	NC	M
A	31 C12-C24	6.353	(3.652-9.054)		461772587	233.5	M
	49 n-Octadecane	6.761	6.758	0.003	6715665	NC	M
A	52 Mineral oil	6.875	(1.354-12.396)		1941493782	843.6	M
A	11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		1941493782	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		1941493782	NC	M
33 C19	7.187	7.181	0.006	18678800	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		868471793	439.2	M
A 17 C10-C36	7.301	(2.206-12.396)		1939709886	980.9	M
A 13 C9-C40	7.363	(1.354-13.372)		2303300750	1299.4	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		2303300750	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		431262031	218.1	M
62 icosane	7.594	7.588	0.006	9045856	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		2301516854	1299.9	M
$ 34 p-Terphenyl	8.046	8.049	-0.003	50954052	19.7	
35 n-Docosane	8.355	8.350	0.005	15906919	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		2294195244	1300.5	M
36 Tricosane	8.709	8.709	0.000	35205704	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		2290248762	1299.4	M
37 n-Tetracosane	9.057	9.054	0.003	24520557	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		1901877720	1404.6	M
38 C25	9.391	9.386	0.005	53855023	NC	M
A 19 C16-C40	9.607	(5.842-13.372)		2263684688	1286.9	M
46 n-Hexacosane	9.752	9.706	0.046	52222472	NC	M
A 20 C19-C36	9.789	(7.181-12.396)		1461319562	907.7	
A 55 C23-C32	10.063	(8.709-11.418)		1138112353	1283.0	M
39 n-Octacosane	10.252	10.314	-0.062	48852741	NC	M
65 C29	10.608	10.604	0.004	50394949	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		1279722912	1106.3	
A 40 C24-C36	10.725	(9.054-12.396)		1449769774	1253.3	M
A 10 C22-C40	10.861	(8.350-13.372)		1742881205	1076.6	
A 50 C25-C36	10.891	(9.386-12.396)		1161971295	1073.4	
A 41 C23-C40	11.040	(8.709-13.372)		1688706954	1063.4	
A 8 C24-C40	11.213	(9.054-13.372)		1660596810	1068.4	
56 Dotriacontane	11.412	11.418	-0.006	72195201	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		1334886948	1073.1	
A 63 C29-C40	11.988	(10.604-13.372)		1214917905	1063.9	
42 n-Hexatriacontane	12.428	12.396	0.032	39697199	NC	M
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

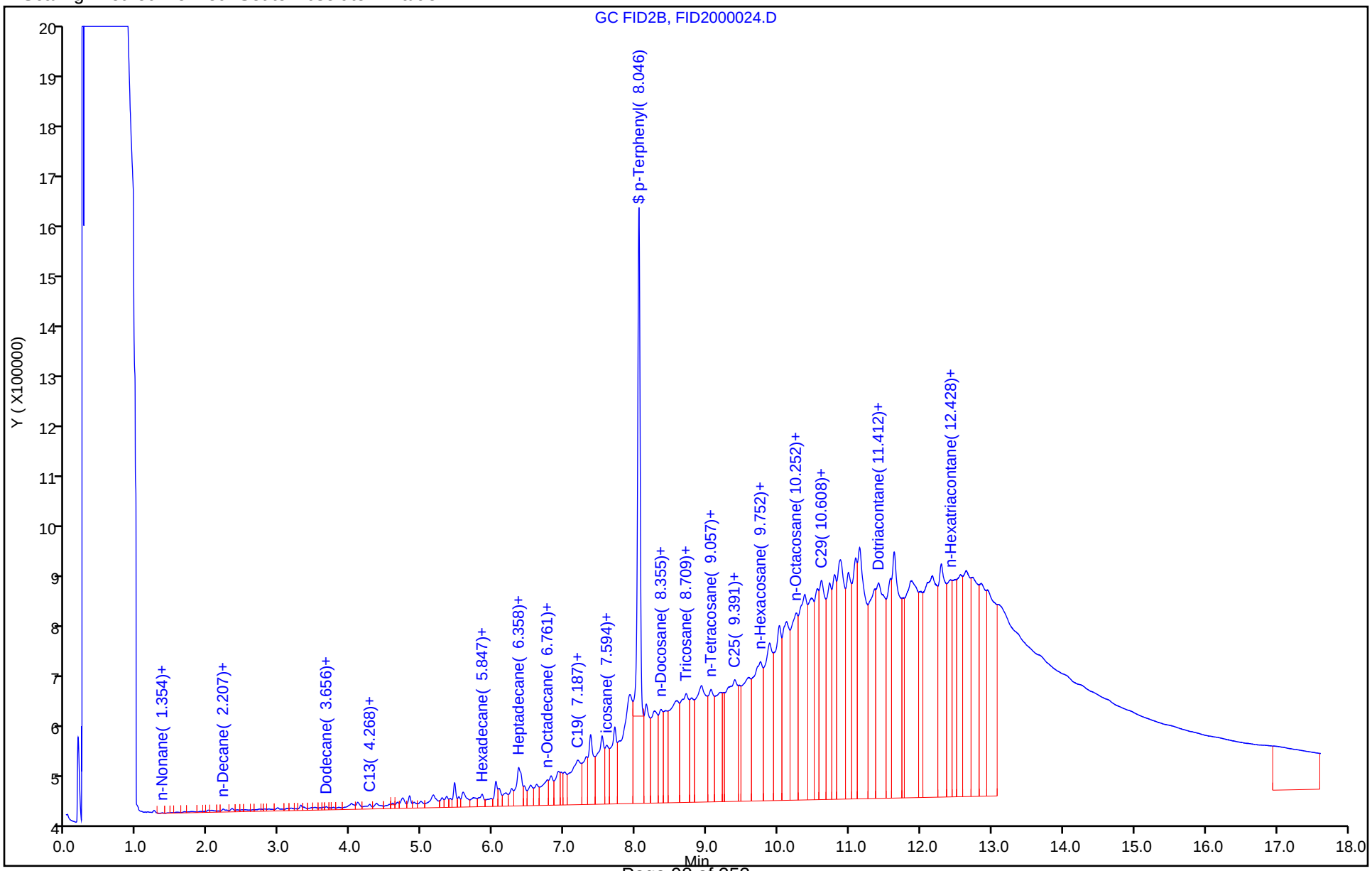
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000024.D

Injection Date:	11-Jan-2019 00:27:17	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-14-B	Lab Sample ID:	720-90640-14	Worklist Smp#:	24
Client ID:	DG-AH5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	74
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000024.D
Lims ID: 720-90640-E-14-B
Client ID: DG-AH5S-0.5-1
Sample Type: Client
Inject. Date: 11-Jan-2019 00:27:17 ALS Bottle#: 74 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-024
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:40:52 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:40:52

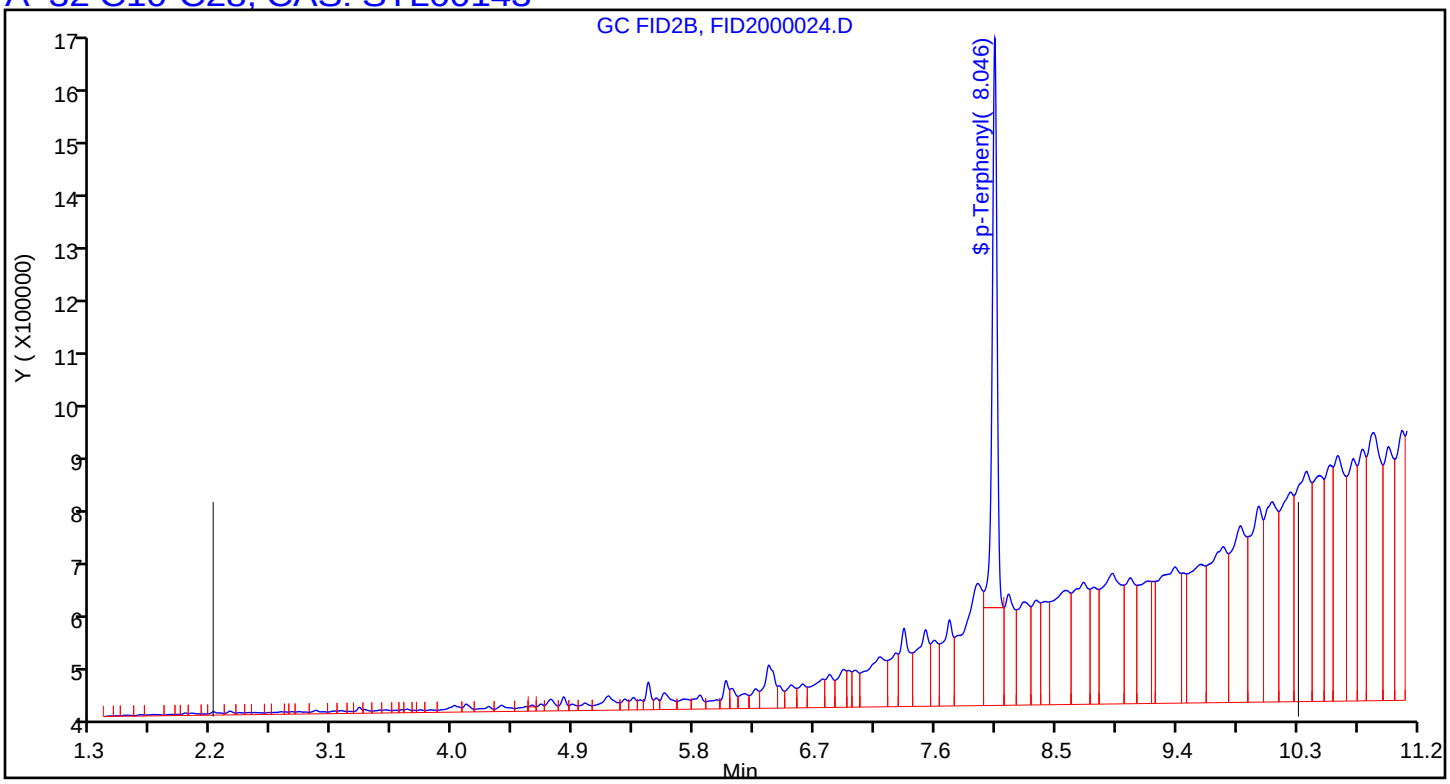
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	19.7	78.95

Report Date: 11-Jan-2019 12:40:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000024.D				
Injection Date:	11-Jan-2019 00:27:17	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-14-B	Lab Sample ID:	720-90640-14		
Client ID:	DG-AH5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

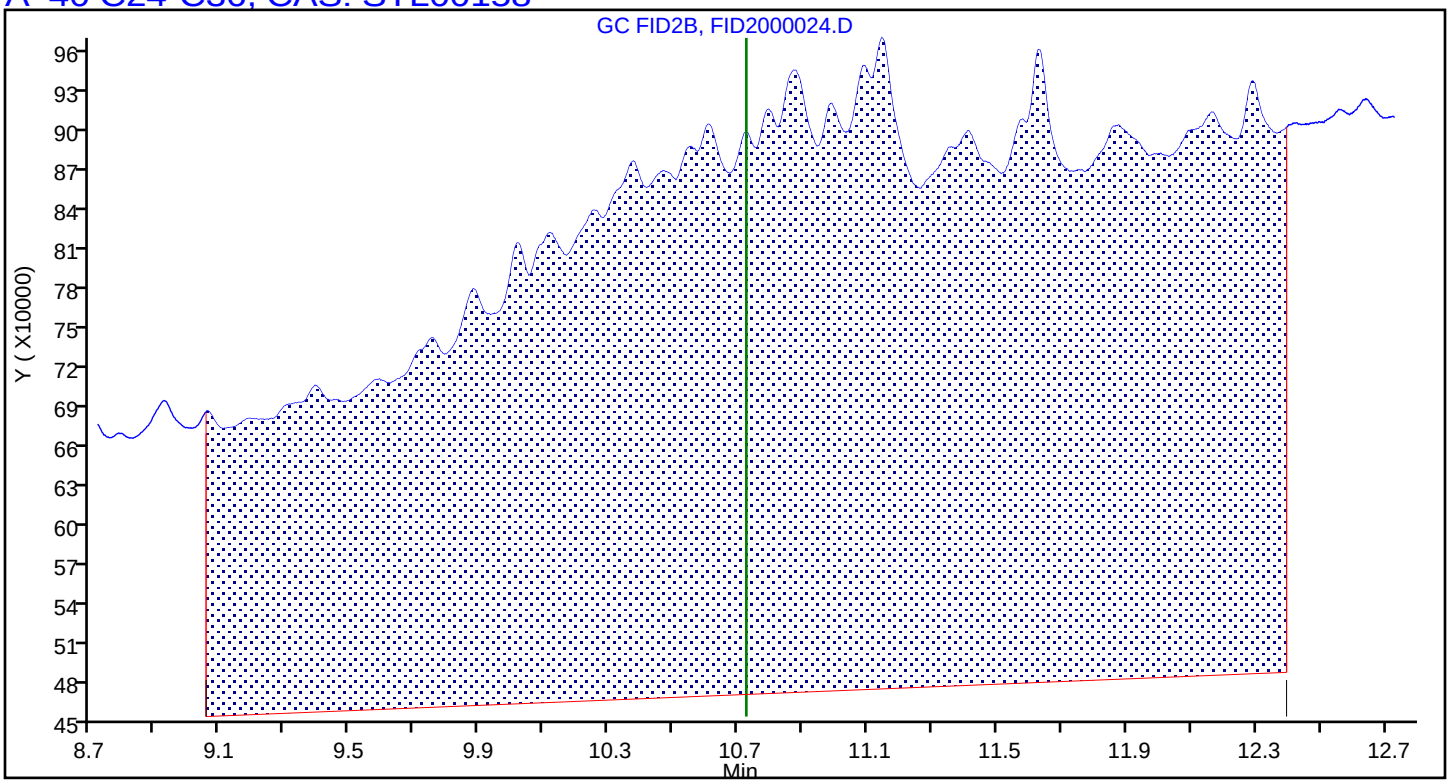


Report Date: 11-Jan-2019 12:40:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000024.D				
Injection Date:	11-Jan-2019 00:27:17	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-14-B	Lab Sample ID:	720-90640-14		
Client ID:	DG-AH5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

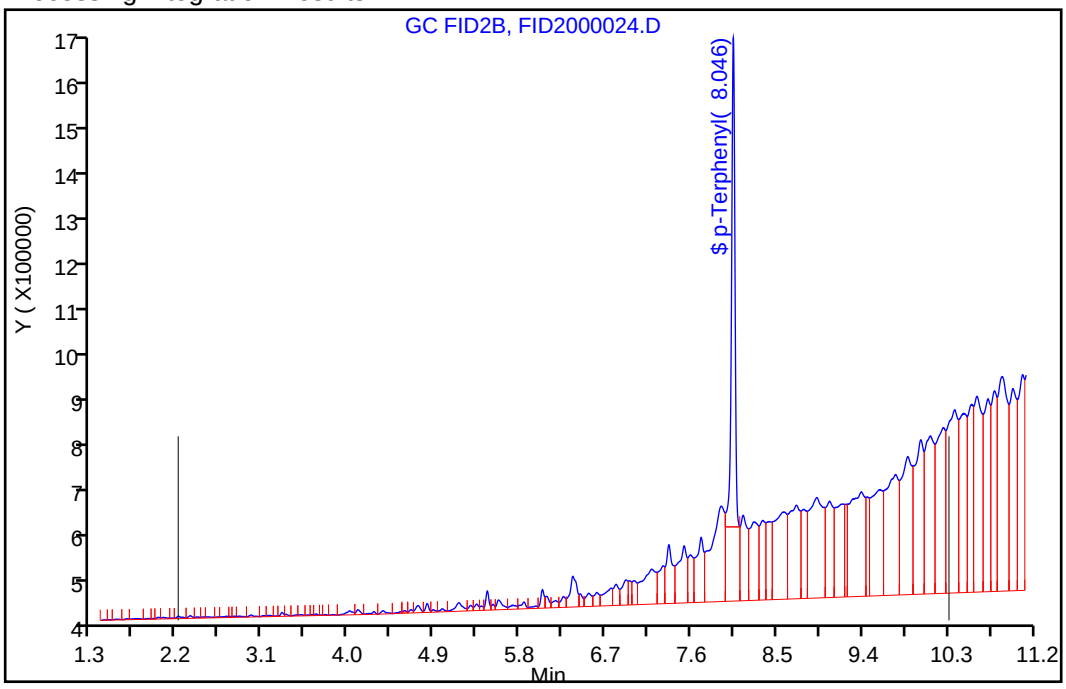
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Lims ID:	720-90640-E-14-B	Lab Sample ID:	720-90640-14		
Client ID:	DG-AH5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

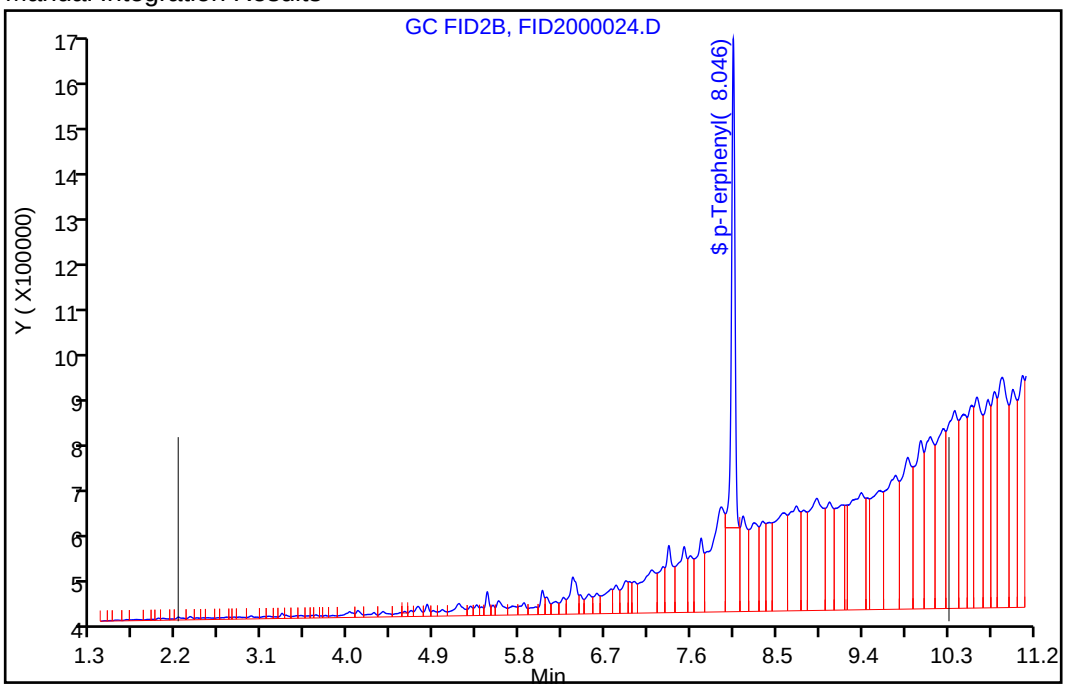
Processing Integration Results

RT: 6.26
Response: 746825667
Amount: 377.6654



Manual Integration Results

RT: 6.26
Response: 879739885
Amount: 444.8794



Reviewer: luj, 11-Jan-2019 12:40:24

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

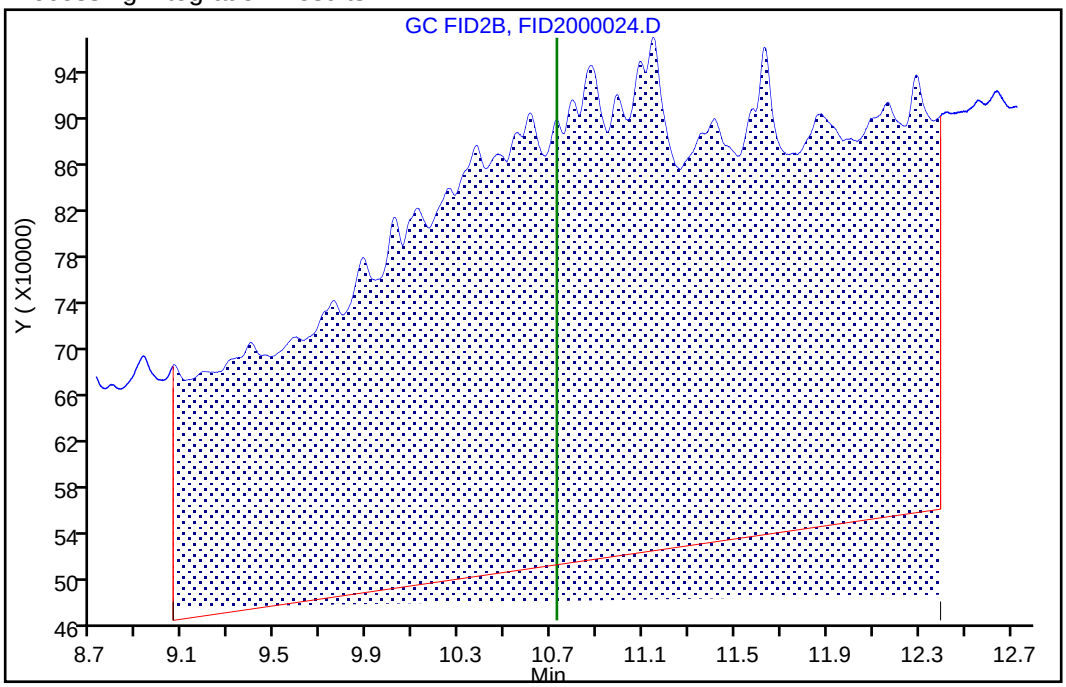
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Injection Date:	11-Jan-2019 00:27:17	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-14-B	Lab Sample ID:	720-90640-14		
Client ID:	DG-AH5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.725, CAS: STL00158

Signal: 1

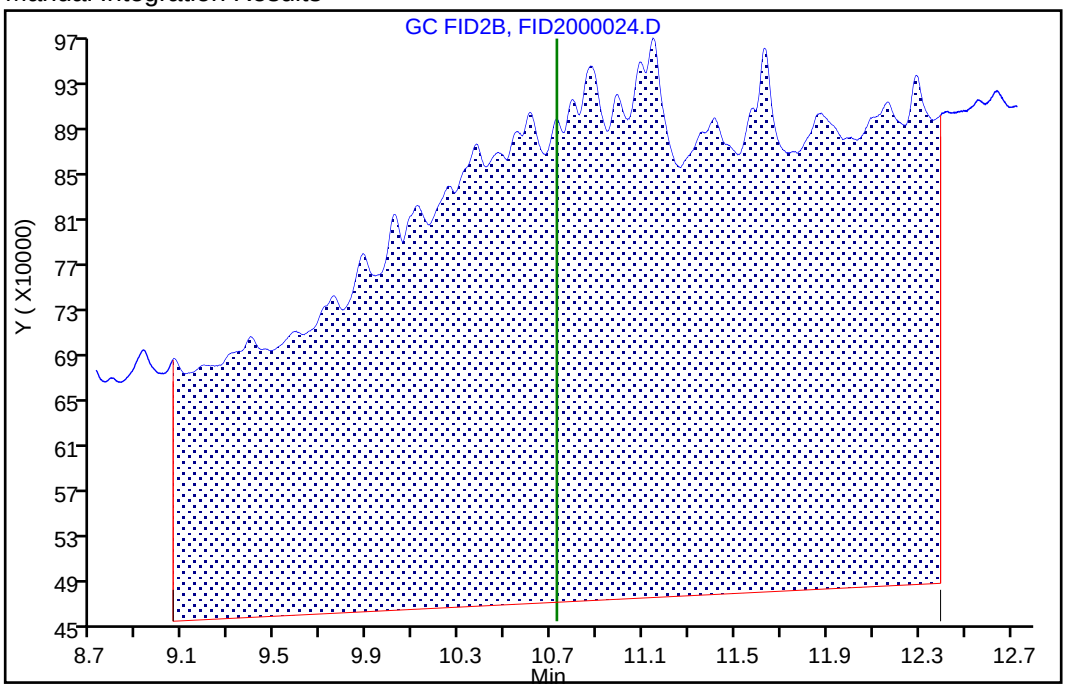
Processing Integration Results

RT: 10.72
Response: 1279722912
Amount: 1106.2555



Manual Integration Results

RT: 10.72
Response: 1449769774
Amount: 1253.2523



Reviewer: luj, 11-Jan-2019 12:40:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000023.D
Lims ID: 720-90640-E-15-B
Client ID: DG-AH5S-3.5-4
Sample Type: Client
Inject. Date: 11-Jan-2019 00:03:10 ALS Bottle#: 73 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:38:31 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:38:31

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.354	1.354	0.000	334745	NC	M
	23 n-Decane	2.205	2.206	-0.001	1310511	NC	M
A	21 Stoddard Solvent	2.809	(1.354-4.264)		41626919	17.5	M
A	1 C9-C13	2.809	(1.354-4.264)		41626919	NC	M
A	57 C10-C12	2.929	(2.206-3.652)		19103564	9.66	M
	24 Dodecane	3.653	3.652	0.001	2001308	NC	M
A	3 C9 - C17	3.834	(1.354-6.313)		167890618	58.5	M
A	60 C10-C16	4.024	(2.206-5.842)		113528828	44.4	M
A	47 C9 - C18	4.056	(1.354-6.758)		216855703	95.6	M
	26 C13	4.263	4.264	-0.001	3332020	NC	M
A	25 C9-C19	4.268	(1.354-7.181)		276994149	95.9	M
A	15 Kerosene	4.268	(1.354-7.181)		276994149	121.9	M
$	27 n-Decanoic Acid (Surr)		4.614			ND	U
A	59 C12-C16	4.747	(3.652-5.842)		94425264	47.8	M
A	61 C10-C20	4.897	(2.206-7.588)		403638009	204.1	M
A	28 C9-C24	5.204	(1.354-9.054)		1078555708	545.4	M
A	29 C9-C25	5.370	(1.354-9.386)		1275241774	644.9	M
A	54 C10-C23	5.457	(2.206-8.709)		860740681	435.3	M
A	4 C10-C24	5.630	(2.206-9.054)		1072572307	542.4	M
A	16 C10-C25	5.796	(2.206-9.386)		1269258373	641.9	M
	45 Hexadecane	5.843	5.842	0.001	8495226	NC	M
A	14 C10-C26	5.956	(2.206-9.706)		1334427661	674.8	M
A	67 C12-C22	6.001	(3.652-8.350)		694634032	351.3	M
A	32 C10-C28	6.260	(2.206-10.314)		2016810601	1019.9	M
A	12 Unknown Hydrocarbons	6.260	(2.206-10.314)		2016810601	NC	M
A	5 Diesel	6.260	(2.206-10.314)		2016810601	1019.9	M
A	30 C13-C22	6.307	(4.264-8.350)		681426098	344.6	M
	44 Heptadecane	6.354	6.313	0.041	26361252	NC	M
A	31 C12-C24	6.353	(3.652-9.054)		1053468743	532.7	M
	49 n-Octadecane	6.766	6.758	0.008	14859135	NC	M
A	52 Mineral oil	6.875	(1.354-12.396)		4152230994	1804.1	M
A	11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		4152230994	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		4152230994	NC	M
33 C19	7.187	7.181	0.006	37676232	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		1984499103	1003.5	M
A 17 C10-C36	7.301	(2.206-12.396)		4146247593	2096.7	M
A 13 C9-C40	7.363	(1.354-13.372)		4992719589	2816.6	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		4992719589	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		959043479	485.0	M
62 icosane	7.593	7.588	0.005	21792037	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		4986736188	2816.4	M
$ 34 p-Terphenyl	8.046	8.049	-0.003	46079738	17.9	
35 n-Docosane	8.360	8.350	0.010	33264970	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		4967632624	2815.9	M
36 Tricosane	8.713	8.709	0.004	73586846	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		4954424690	2810.9	M
37 n-Tetracosane	9.059	9.054	0.005	61033138	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		4032718765	2978.3	M
38 C25	9.393	9.386	0.007	65169288	NC	M
A 19 C16-C40	9.607	(5.842-13.372)		4873207360	2770.5	M
46 n-Hexacosane	9.756	9.706	0.050	240174732	NC	M
A 20 C19-C36	9.789	(7.181-12.396)		3256810414	2023.0	
A 55 C23-C32	10.063	(8.709-11.418)		2506542030	2825.7	M
39 n-Octacosane	10.258	10.314	-0.056	111739570	NC	M
65 C29	10.609	10.604	0.005	121275727	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		2765090382	2390.3	
A 40 C24-C36	10.725	(9.054-12.396)		3028668235	2618.1	M
A 10 C22-C40	10.861	(8.350-13.372)		3537484132	2185.1	
A 50 C25-C36	10.891	(9.386-12.396)		2509878533	2318.6	
A 41 C23-C40	11.040	(8.709-13.372)		3401641778	2142.0	
A 8 C24-C40	11.213	(9.054-13.372)		3289007537	2116.1	
56 Dotriacontane	11.407	11.418	-0.011	143054971	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		2488347087	2000.4	
A 63 C29-C40	11.988	(10.604-13.372)		2202880130	1929.0	
42 n-Hexatriacontane	12.418	12.396	0.022	72651735	NC	M
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

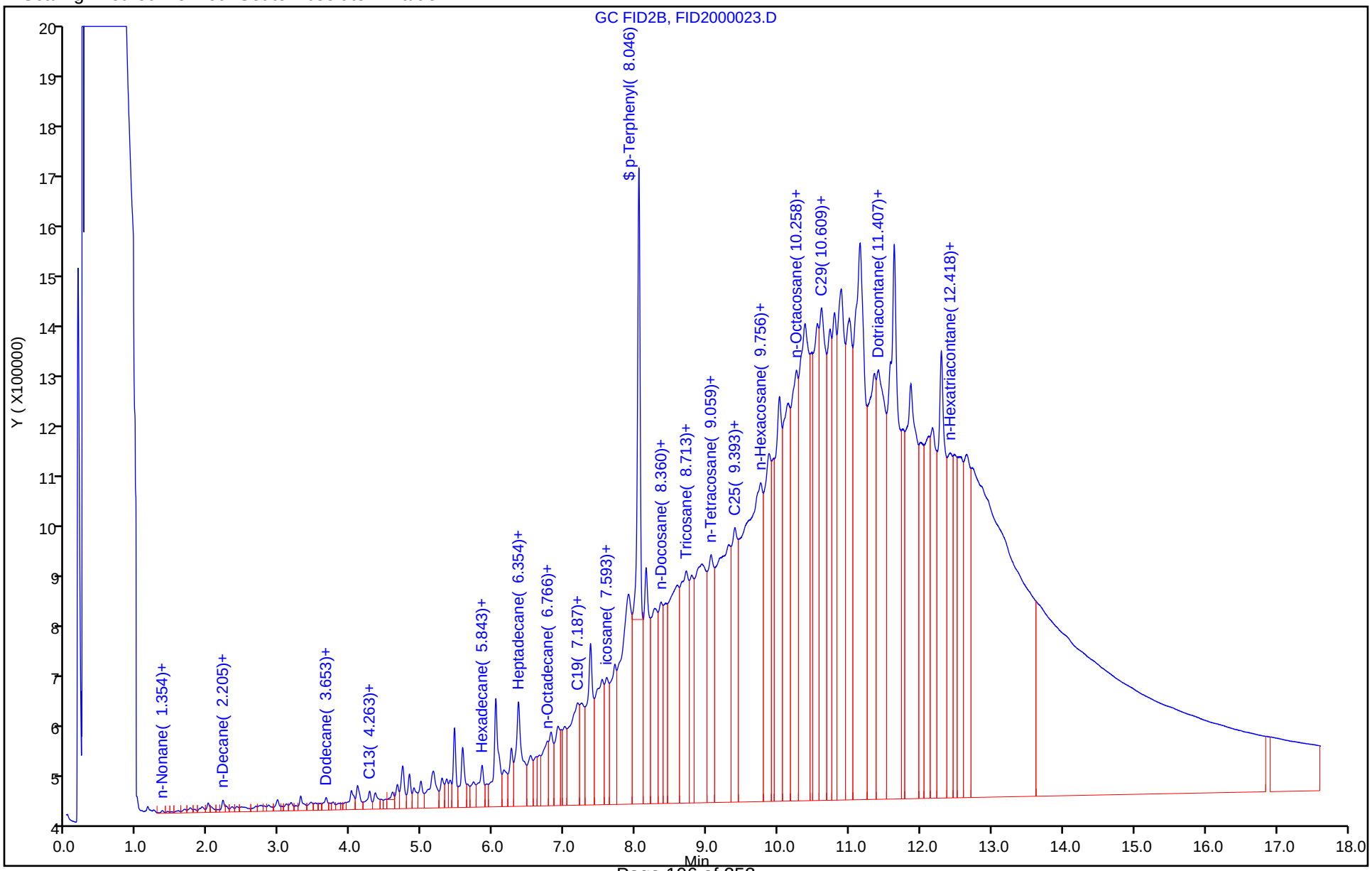
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000023.D

Injection Date:	11-Jan-2019 00:03:10	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-15-B	Lab Sample ID:	720-90640-15	Worklist Smp#:	23
Client ID:	DG-AH5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	73
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000023.D
Lims ID: 720-90640-E-15-B
Client ID: DG-AH5S-3.5-4
Sample Type: Client
Inject. Date: 11-Jan-2019 00:03:10 ALS Bottle#: 73 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:38:31 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:38:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	17.9	71.40

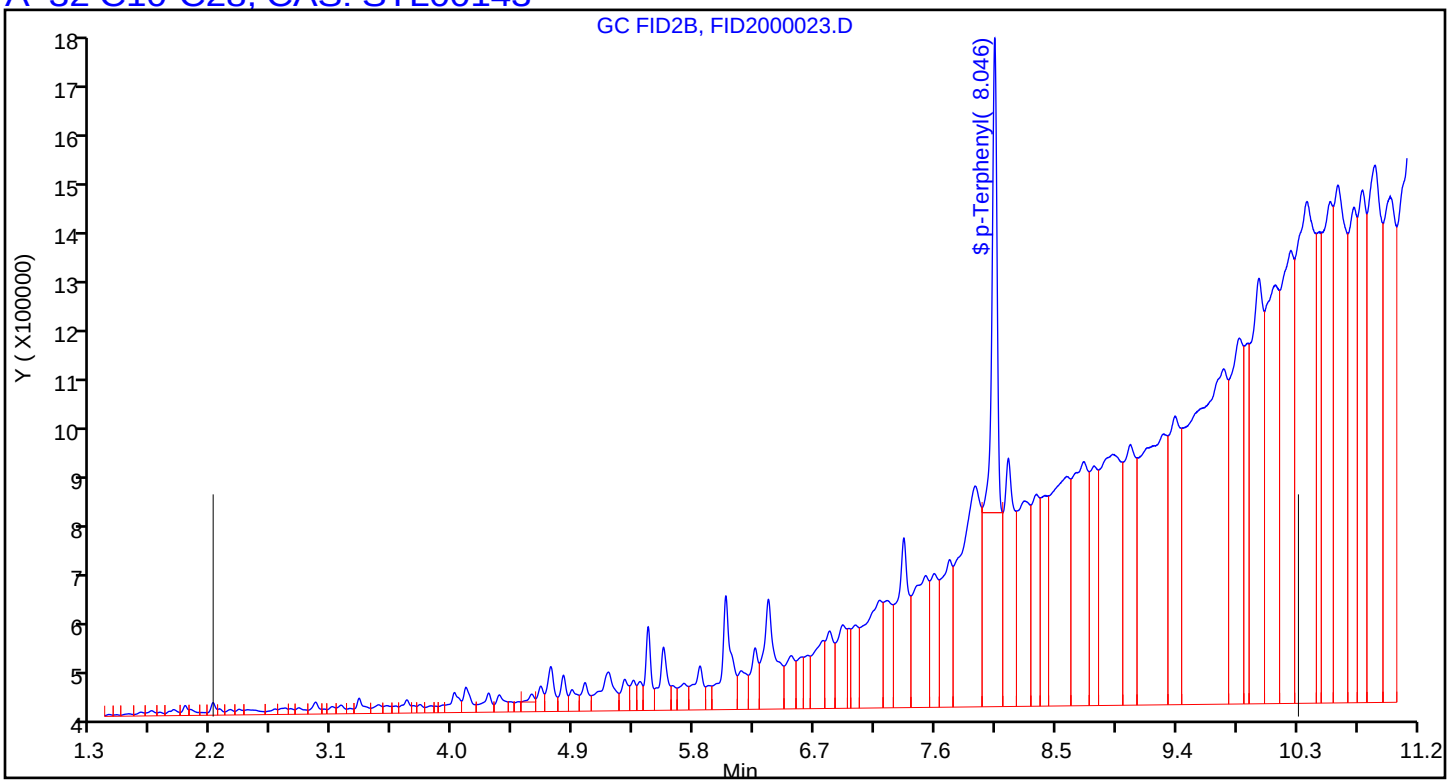
Report Date: 11-Jan-2019 12:38:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000023.D

Injection Date:	11-Jan-2019 00:03:10	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-15-B	Lab Sample ID:	720-90640-15		
Client ID:	DG-AH5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

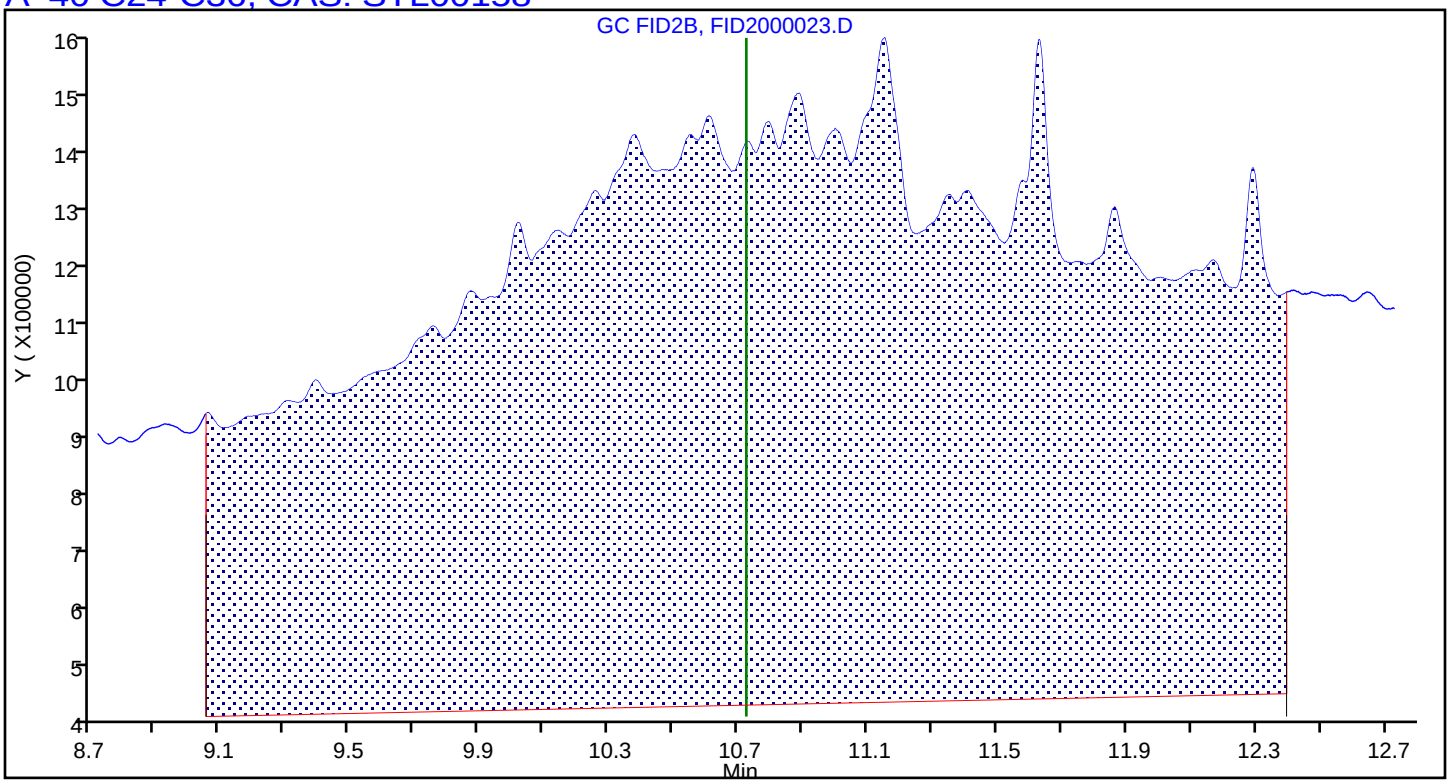


Report Date: 11-Jan-2019 12:38:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000023.D				
Injection Date:	11-Jan-2019 00:03:10	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-15-B	Lab Sample ID:	720-90640-15		
Client ID:	DG-AH5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

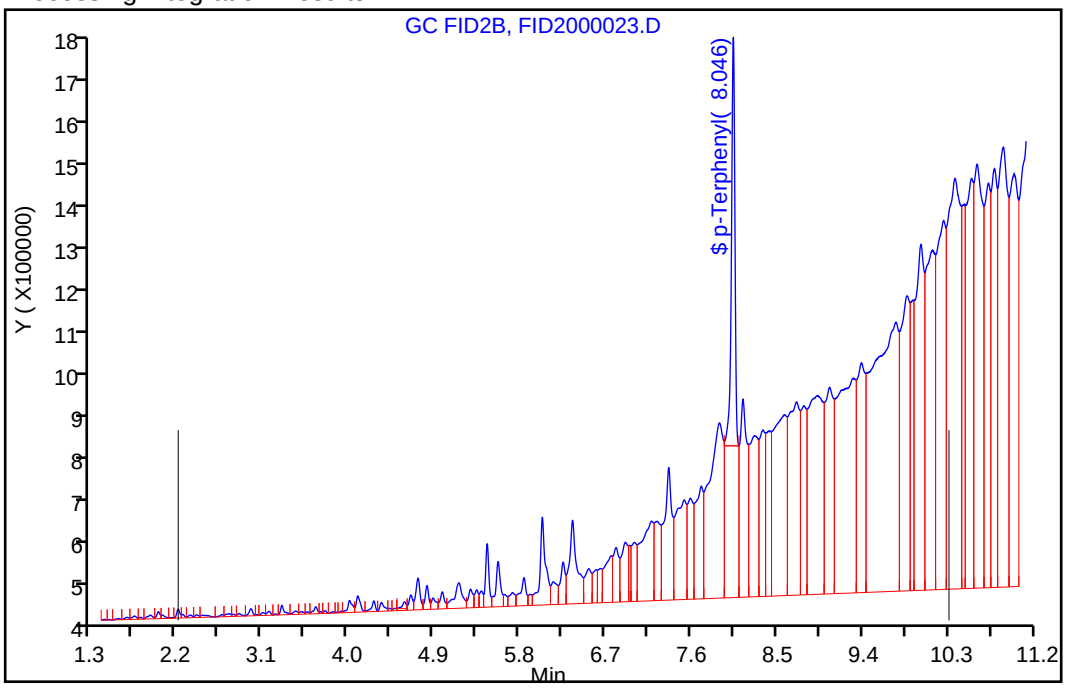
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000023.D				
Injection Date:	11-Jan-2019 00:03:10	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-15-B	Lab Sample ID:	720-90640-15		
Client ID:	DG-AH5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

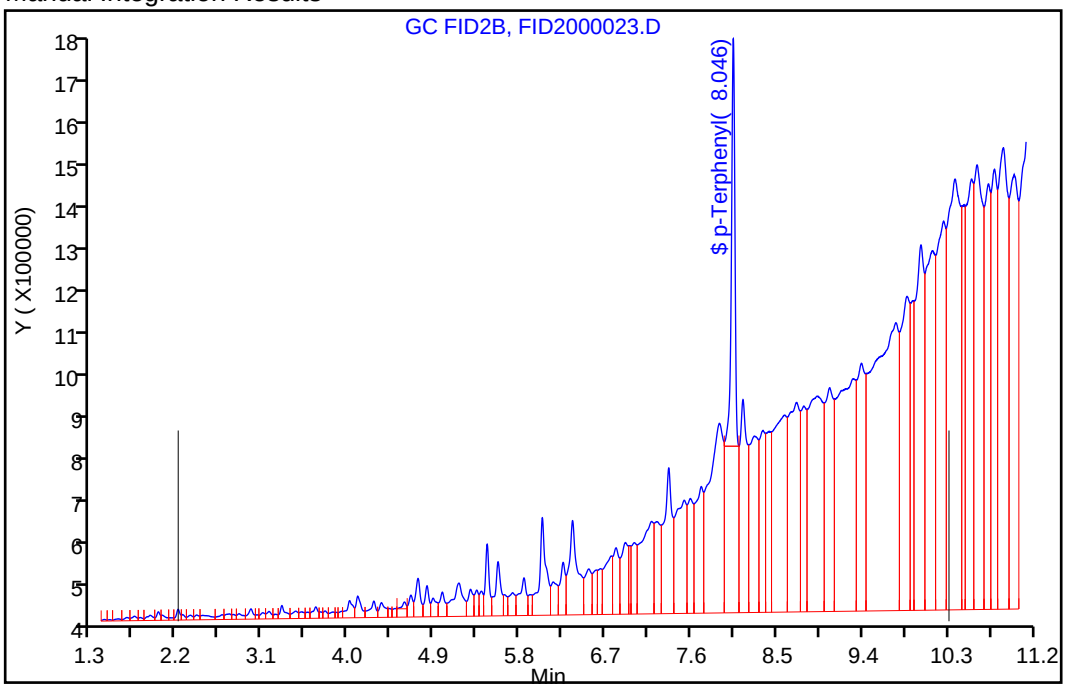
Processing Integration Results

RT: 6.26
Response: 1774860254
Amount: 897.5366



Manual Integration Results

RT: 6.26
Response: 2016810601
Amount: 1019.8895



Reviewer: luj, 11-Jan-2019 12:38:17

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

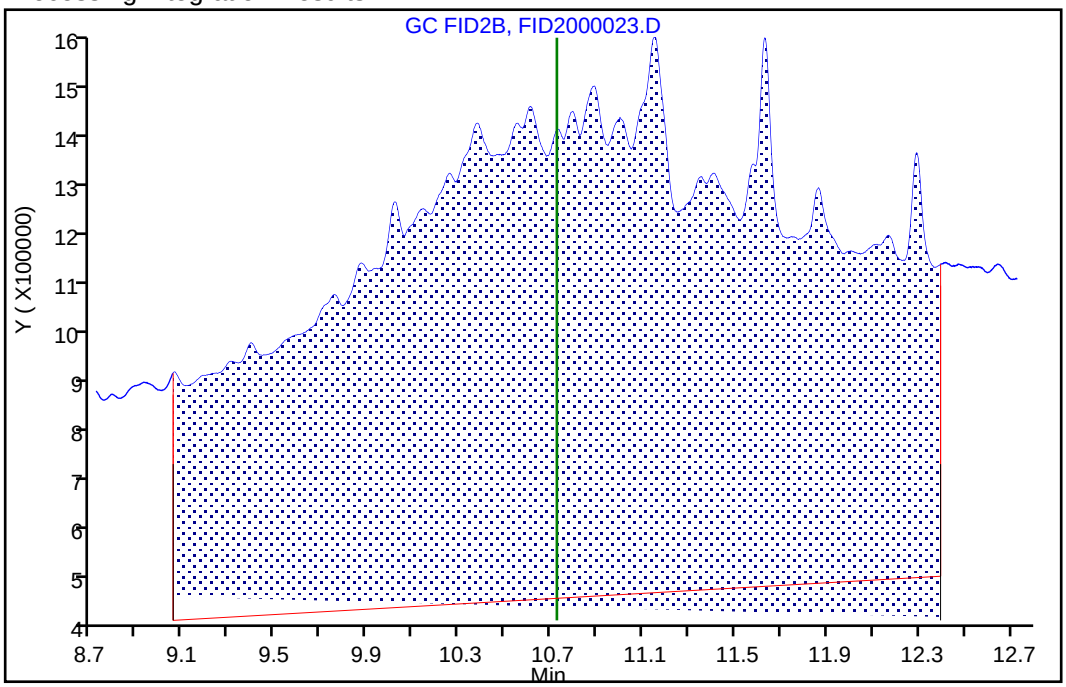
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000023.D				
Injection Date:	11-Jan-2019 00:03:10	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-15-B	Lab Sample ID:	720-90640-15		
Client ID:	DG-AH5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.725, CAS: STL00158

Signal: 1

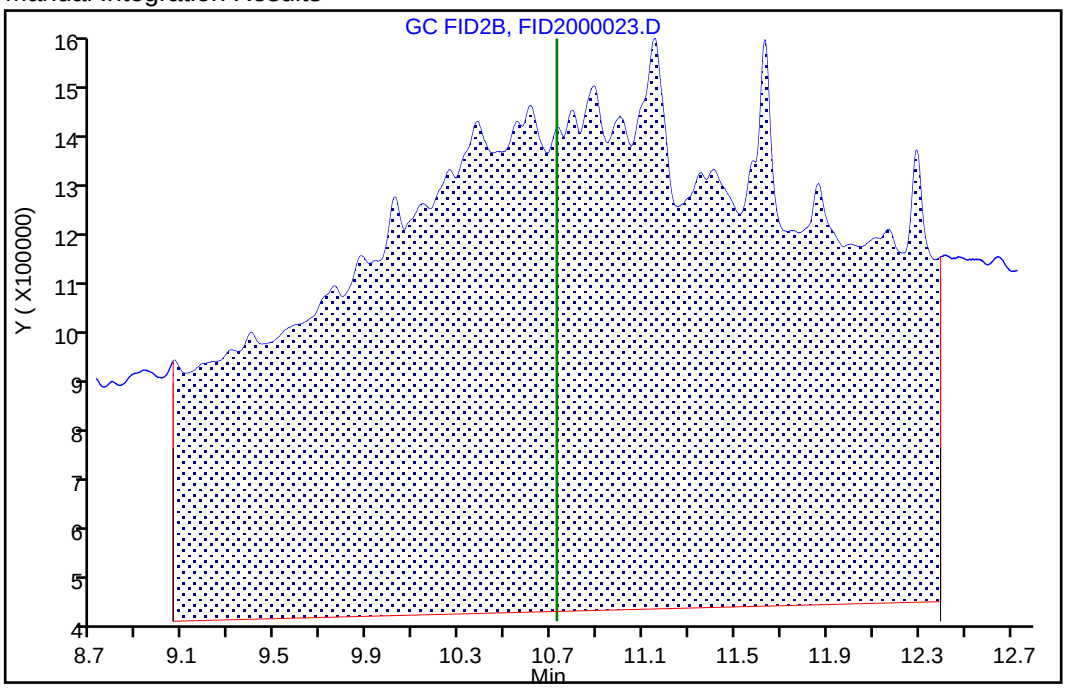
Processing Integration Results

RT: 10.72
Response: 2765090382
Amount: 2390.2802



Manual Integration Results

RT: 10.72
Response: 3028668235
Amount: 2618.1299



Reviewer: luj, 11-Jan-2019 12:38:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000008.D
Lims ID: 720-90640-E-16-B
Client ID: DG-AH5S-8-8.5
Sample Type: Client
Inject. Date: 10-Jan-2019 17:58:48 ALS Bottle#: 58 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-008
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:04:07 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:04:07

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		1.354			ND	
23 n-Decane	2.215	2.206	0.009	337620	NC	M
A 21 Stoddard Solvent	2.809	(1.354-4.264)		12557611	5.27	M
A 1 C9-C13	2.809	(1.354-4.264)		12557611	NC	M
A 57 C10-C12	2.929	(2.206-3.652)		7248438	3.67	M
24 Dodecane	3.646	3.652	-0.006	242960	NC	M
A 3 C9 - C17	3.834	(1.354-6.313)		35315006	12.3	M
A 60 C10-C16	4.024	(2.206-5.842)		23533228	9.19	M
A 47 C9 - C18	4.056	(1.354-6.758)		48936051	21.6	M
26 C13	4.273	4.264	0.009	648663	NC	M
A 25 C9-C19	4.268	(1.354-7.181)		65633718	22.7	M
A 15 Kerosene	4.268	(1.354-7.181)		65633718	28.9	M
$ 27 n-Decanoic Acid (Surr)		4.614			ND	MU
A 59 C12-C16	4.747	(3.652-5.842)		16527750	8.36	M
A 61 C10-C20	4.897	(2.206-7.588)		85495540	43.2	M
A 28 C9-C24	5.204	(1.354-9.054)		172137737	87.0	M
A 29 C9-C25	5.370	(1.354-9.386)		194632021	98.4	M
A 54 C10-C23	5.457	(2.206-8.709)		148642660	75.2	M
A 4 C10-C24	5.630	(2.206-9.054)		168919104	85.4	M
A 16 C10-C25	5.796	(2.206-9.386)		191413388	96.8	M
45 Hexadecane	5.846	5.842	0.004	2049514	NC	M
A 14 C10-C26	5.956	(2.206-9.706)		209142988	105.8	M
A 67 C12-C22	6.001	(3.652-8.350)		120735811	61.1	M
A 32 C10-C28	6.260	(2.206-10.314)		263950786	133.5	M
A 12 Unknown Hydrocarbons	6.260	(2.206-10.314)		263950786	NC	M
A 5 Diesel	6.260	(2.206-10.314)		263950786	133.5	M
A 30 C13-C22	6.307	(4.264-8.350)		118402311	59.9	M
44 Heptadecane	6.353	6.313	0.040	7565099	NC	M
A 31 C12-C24	6.353	(3.652-9.054)		161913626	81.9	M
49 n-Octadecane	6.759	6.758	0.001	3583032	NC	M
A 52 Mineral oil	6.875	(1.354-12.396)		457531214	198.8	M
A 11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		457531214	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		457531214	NC	M
33 C19	7.183	7.181	0.002	5191918	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		254611808	128.8	M
A 17 C10-C36	7.301	(2.206-12.396)		454312581	229.7	M
A 13 C9-C40	7.363	(1.354-13.372)		549033409	309.7	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		549033409	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		145385876	73.5	M
62 icosane	7.589	7.588	0.001	4267799	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		545814776	308.3	M
$ 34 p-Terphenyl	8.046	8.049	-0.003	65106068	25.2	
35 n-Docosane	8.353	8.350	0.003	7930882	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		538809298	305.4	M
36 Tricosane	8.709	8.709	0.000	4802877	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		536475798	304.4	M
37 n-Tetracosane	9.057	9.054	0.003	8083364	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		430779353	318.1	M
38 C25	9.391	9.386	0.005	8457979	NC	M
A 19 C16-C40	9.607	(5.842-13.372)		522281548	296.9	M
46 n-Hexacosane	9.751	9.706	0.045	12198613	NC	M
A 20 C19-C36	9.789	(7.181-12.396)		289638636	179.9	
A 55 C23-C32	10.063	(8.709-11.418)		228336329	257.4	M
39 n-Octacosane	10.367	10.314	0.053	14028340	NC	M
65 C29	10.601	10.604	-0.003	18741776	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		249119967	215.4	
A 40 C24-C36	10.725	(9.054-12.396)		249119967	215.4	
A 10 C22-C40	10.861	(8.350-13.372)		317740613	196.3	
A 50 C25-C36	10.891	(9.386-12.396)		213804668	197.5	
A 41 C23-C40	11.040	(8.709-13.372)		305050797	192.1	
A 8 C24-C40	11.213	(9.054-13.372)		295577264	190.2	
56 Dotriacontane	11.407	11.418	-0.011	7318385	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		226435749	182.0	
A 63 C29-C40	11.988	(10.604-13.372)		202785643	177.6	
42 n-Hexatriacontane	12.410	12.396	0.014	15346316	NC	M
43 C40	13.358	13.372	-0.014	15439414	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

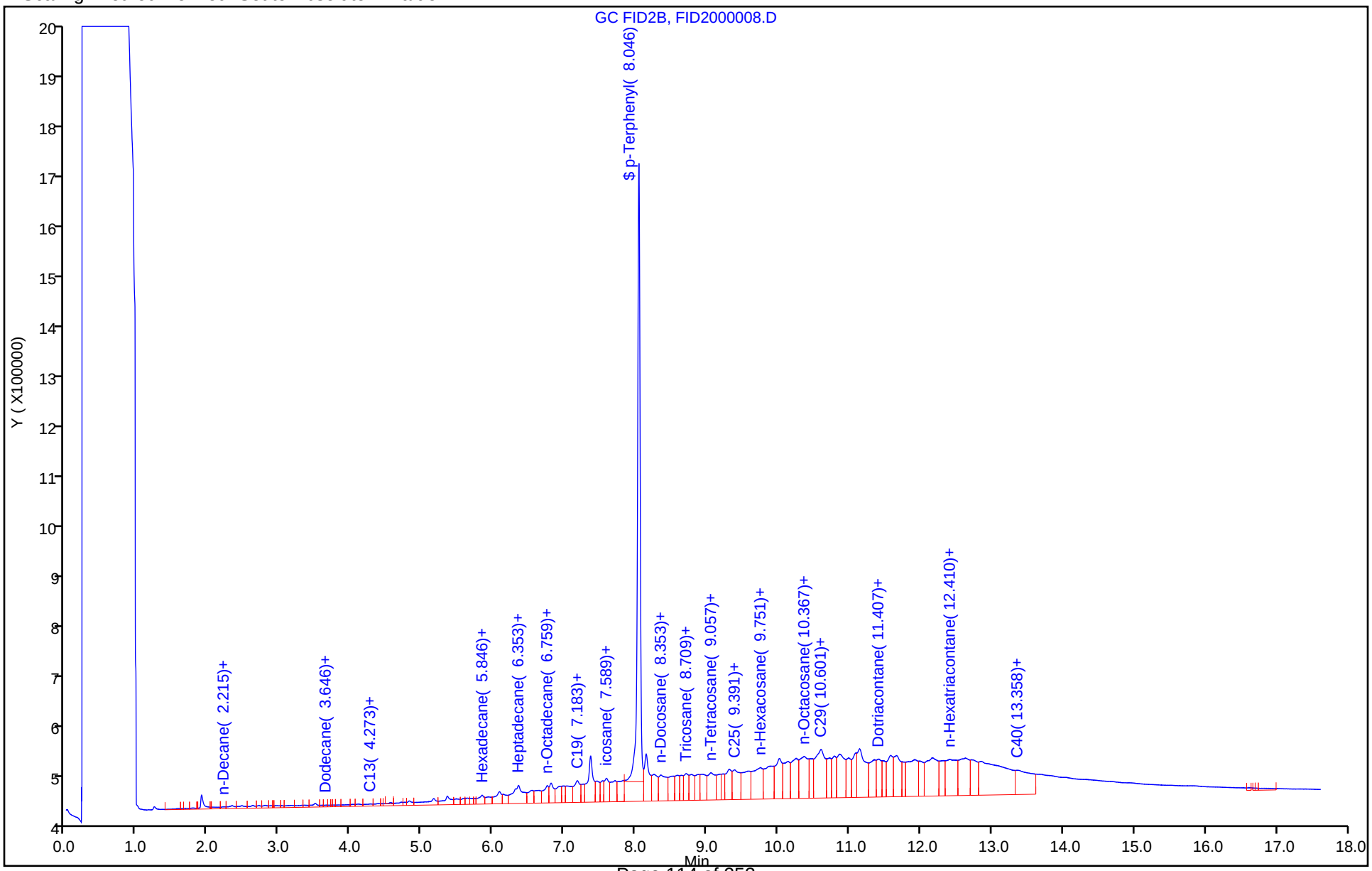
Report Date: 11-Jan-2019 12:04:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000008.D

Injection Date:	10-Jan-2019 17:58:48	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-16-B	Lab Sample ID:	720-90640-16	Worklist Smp#:	8
Client ID:	DG-AH5S-8-8.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	58
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000008.D
Lims ID: 720-90640-E-16-B
Client ID: DG-AH5S-8-8.5
Sample Type: Client
Inject. Date: 10-Jan-2019 17:58:48 ALS Bottle#: 58 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-008
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:04:07 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:04:07

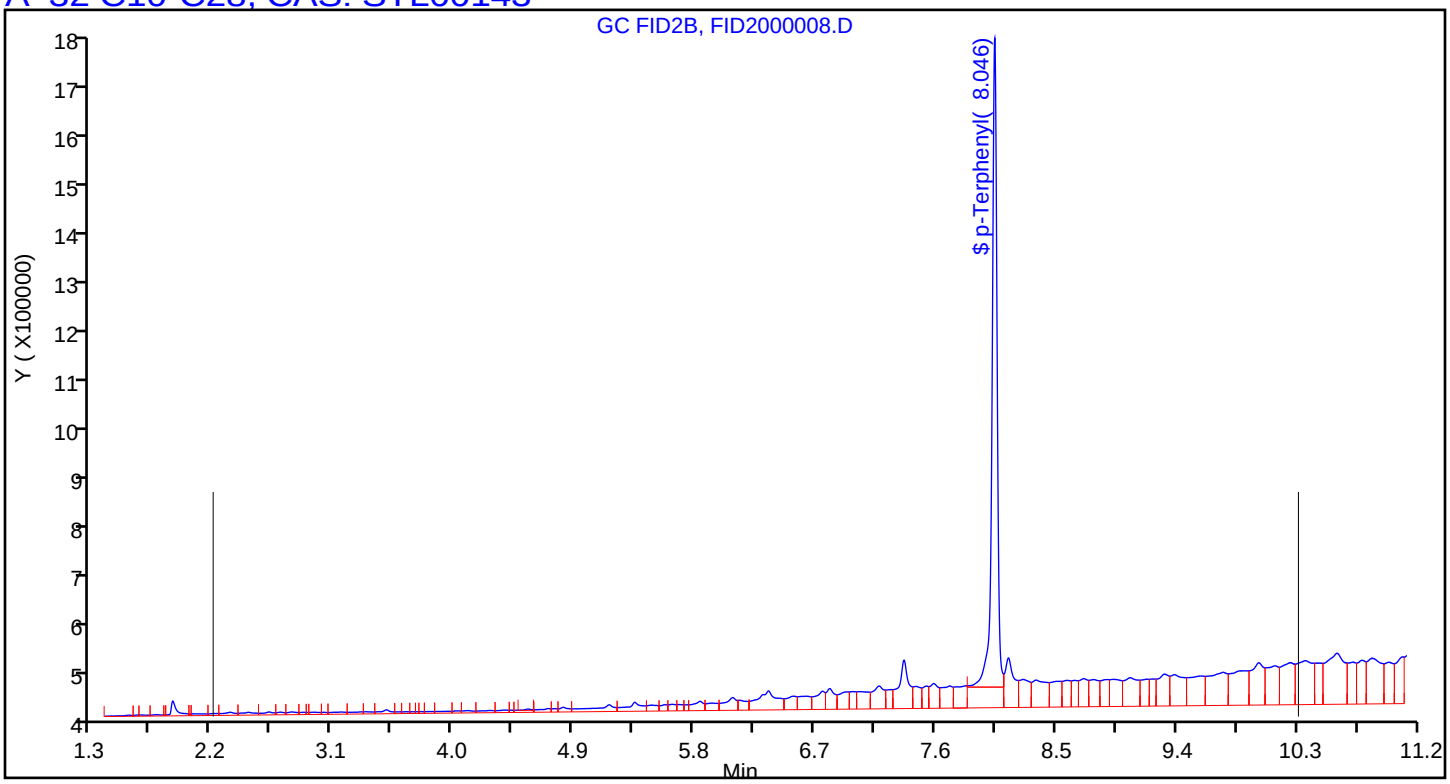
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.2	100.88

Report Date: 11-Jan-2019 12:04:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000008.D				
Injection Date:	10-Jan-2019 17:58:48	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-16-B	Lab Sample ID:	720-90640-16		
Client ID:	DG-AH5S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	58	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

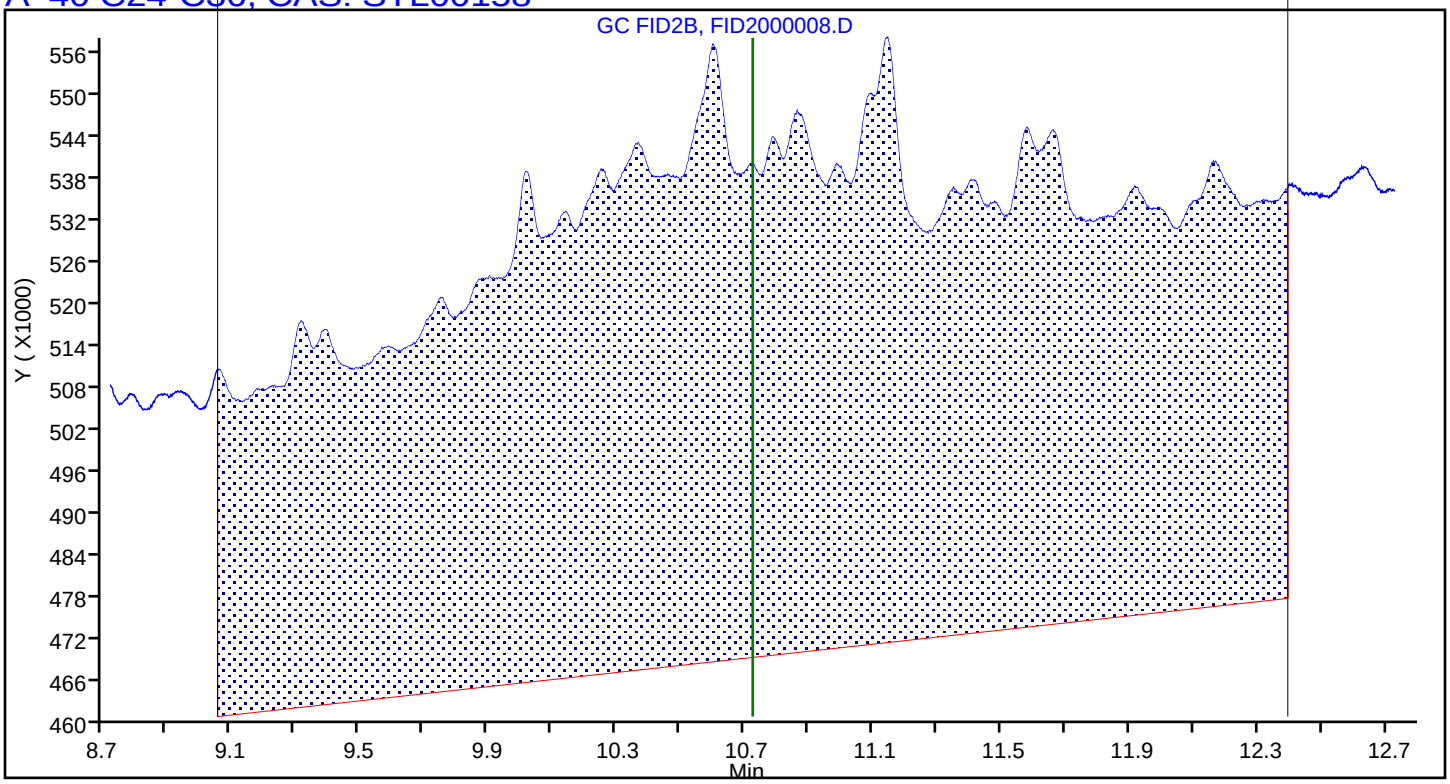


Report Date: 11-Jan-2019 12:04:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000008.D				
Injection Date:	10-Jan-2019 17:58:48	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-16-B	Lab Sample ID:	720-90640-16		
Client ID:	DG-AH5S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	58	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

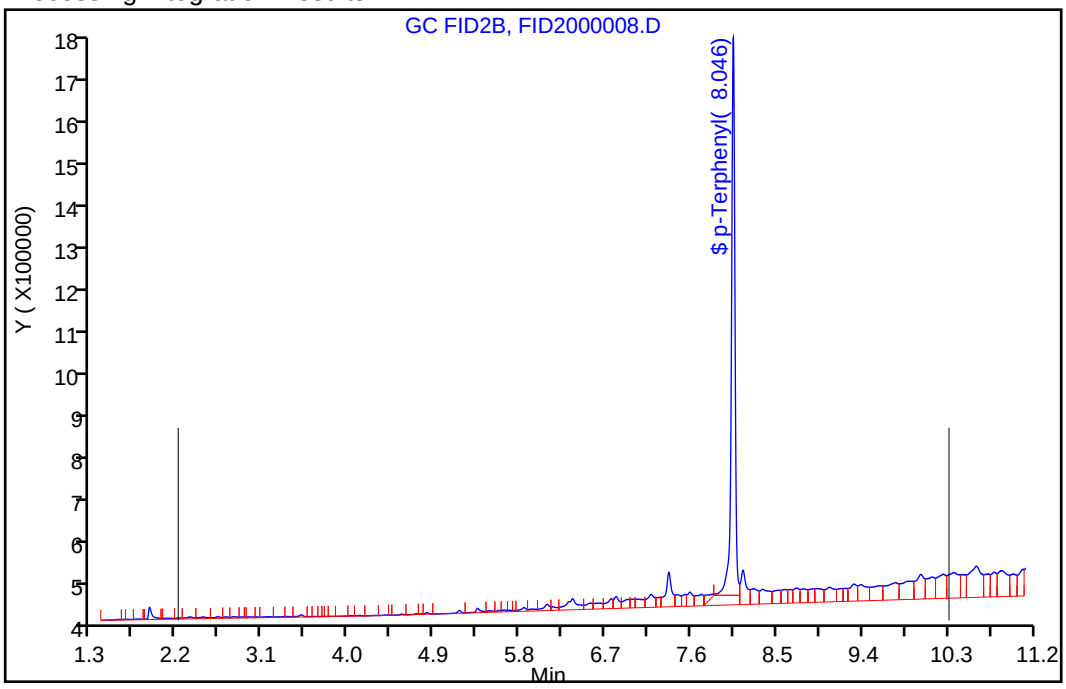
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000008.D				
Injection Date:	10-Jan-2019 17:58:48	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-16-B	Lab Sample ID:	720-90640-16		
Client ID:	DG-AH5S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	58	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

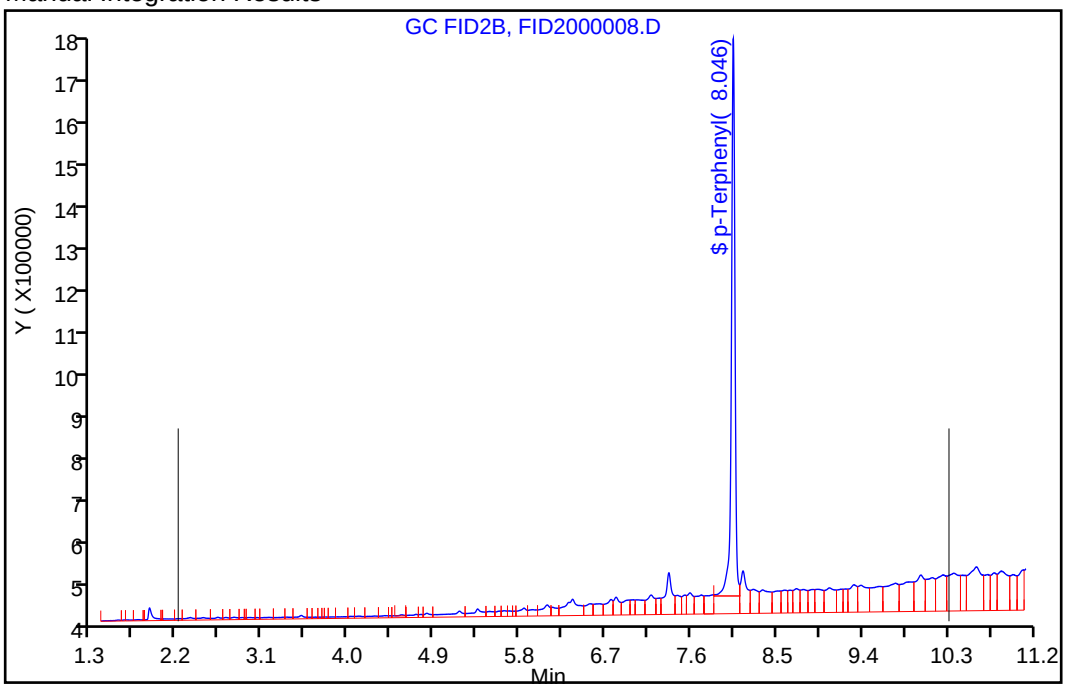
Processing Integration Results

RT: 6.26
Response: 149240503
Amount: 75.470062



Manual Integration Results

RT: 6.26
Response: 263950786
Amount: 133.4784



Reviewer: luj, 11-Jan-2019 12:03:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000011.D
Lims ID: 720-90640-E-17-B
Client ID: DG-AJ5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 19:11:40 ALS Bottle#: 61 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-011
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:06:54 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:06:54

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.354			ND	
	23 n-Decane	2.207	2.206	0.001	352810	NC	M
A	21 Stoddard Solvent	2.809	(1.354-4.264)		15799668	6.64	M
A	1 C9-C13	2.809	(1.354-4.264)		15799668	NC	M
A	57 C10-C12	2.929	(2.206-3.652)		8825893	4.46	M
	24 Dodecane	3.659	3.652	0.007	381561	NC	M
A	3 C9 - C17	3.834	(1.354-6.313)		48550752	16.9	M
A	60 C10-C16	4.024	(2.206-5.842)		38629507	15.1	M
A	47 C9 - C18	4.056	(1.354-6.758)		68726917	30.3	M
	26 C13	4.266	4.264	0.002	383430	NC	M
A	25 C9-C19	4.268	(1.354-7.181)		103709569	35.9	M
A	15 Kerosene	4.268	(1.354-7.181)		103709569	45.6	M
$	27 n-Decanoic Acid (Surr)		4.614			ND	U
A	59 C12-C16	4.747	(3.652-5.842)		29803614	15.1	M
A	61 C10-C20	4.897	(2.206-7.588)		153099284	77.4	M
A	28 C9-C24	5.204	(1.354-9.054)		395743304	200.1	M
A	29 C9-C25	5.370	(1.354-9.386)		471699049	238.5	M
A	54 C10-C23	5.457	(2.206-8.709)		323479227	163.6	M
A	4 C10-C24	5.630	(2.206-9.054)		393033589	198.8	M
A	16 C10-C25	5.796	(2.206-9.386)		468989334	237.2	M
	45 Hexadecane	5.845	5.842	0.003	1120024	NC	M
A	14 C10-C26	5.956	(2.206-9.706)		552123305	279.2	M
A	67 C12-C22	6.001	(3.652-8.350)		249792723	126.3	M
A	32 C10-C28	6.260	(2.206-10.314)		763614176	386.2	M
A	12 Unknown Hydrocarbons	6.260	(2.206-10.314)		763614176	NC	M
A	5 Diesel	6.260	(2.206-10.314)		763614176	386.2	M
A	30 C13-C22	6.307	(4.264-8.350)		245528663	124.2	M
	44 Heptadecane	6.357	6.313	0.044	6604411	NC	M
A	31 C12-C24	6.353	(3.652-9.054)		384207696	194.3	M
	49 n-Octadecane	6.760	6.758	0.002	4773787	NC	M
A	52 Mineral oil	6.875	(1.354-12.396)		1764115378	766.5	M
A	11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		1764115378	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		1764115378	NC	M
33 C19	7.181	7.181	0.000	18317674	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		750524223	379.5	M
A 17 C10-C36	7.301	(2.206-12.396)		1761405663	890.7	M
A 13 C9-C40	7.363	(1.354-13.372)		2267776588	1279.4	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		2267776588	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		354404082	179.2	M
62 icosane	7.588	7.588	0.000	7773498	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		2265066873	1279.3	M
$ 34 p-Terphenyl	8.045	8.049	-0.004	64769878	25.1	M
35 n-Docosane	8.359	8.350	0.009	13356155	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		2256240980	1278.9	M
36 Tricosane	8.718	8.709	0.009	16181323	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		2251976920	1277.7	M
37 n-Tetracosane	9.073	9.054	0.019	24905133	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		1722776156	1272.3	M
38 C25	9.403	9.386	0.017	24411561	NC	M
A 19 C16-C40	9.607	(5.842-13.372)		2226437366	1265.8	M
46 n-Hexacosane	9.749	9.706	0.043	36182538	NC	M
A 20 C19-C36	9.789	(7.181-12.396)		1353799071	840.9	
A 55 C23-C32	10.063	(8.709-11.418)		1001758602	1129.3	M
39 n-Octacosane	10.254	10.314	-0.060	38742537	NC	M
65 C29	10.607	10.604	0.003	45815768	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		1205867324	1042.4	
A 40 C24-C36	10.725	(9.054-12.396)		1371977433	1186.0	M
A 10 C22-C40	10.861	(8.350-13.372)		1635132195	1010.0	
A 50 C25-C36	10.891	(9.386-12.396)		1112664079	1027.8	
A 41 C23-C40	11.040	(8.709-13.372)		1594770086	1004.2	
A 8 C24-C40	11.213	(9.054-13.372)		1572137836	1011.5	
56 Dotriacontane	11.406	11.418	-0.012	55833877	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		1271796908	1022.4	
A 63 C29-C40	11.988	(10.604-13.372)		1156199276	1012.5	
42 n-Hexatriacontane		12.396			ND	
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

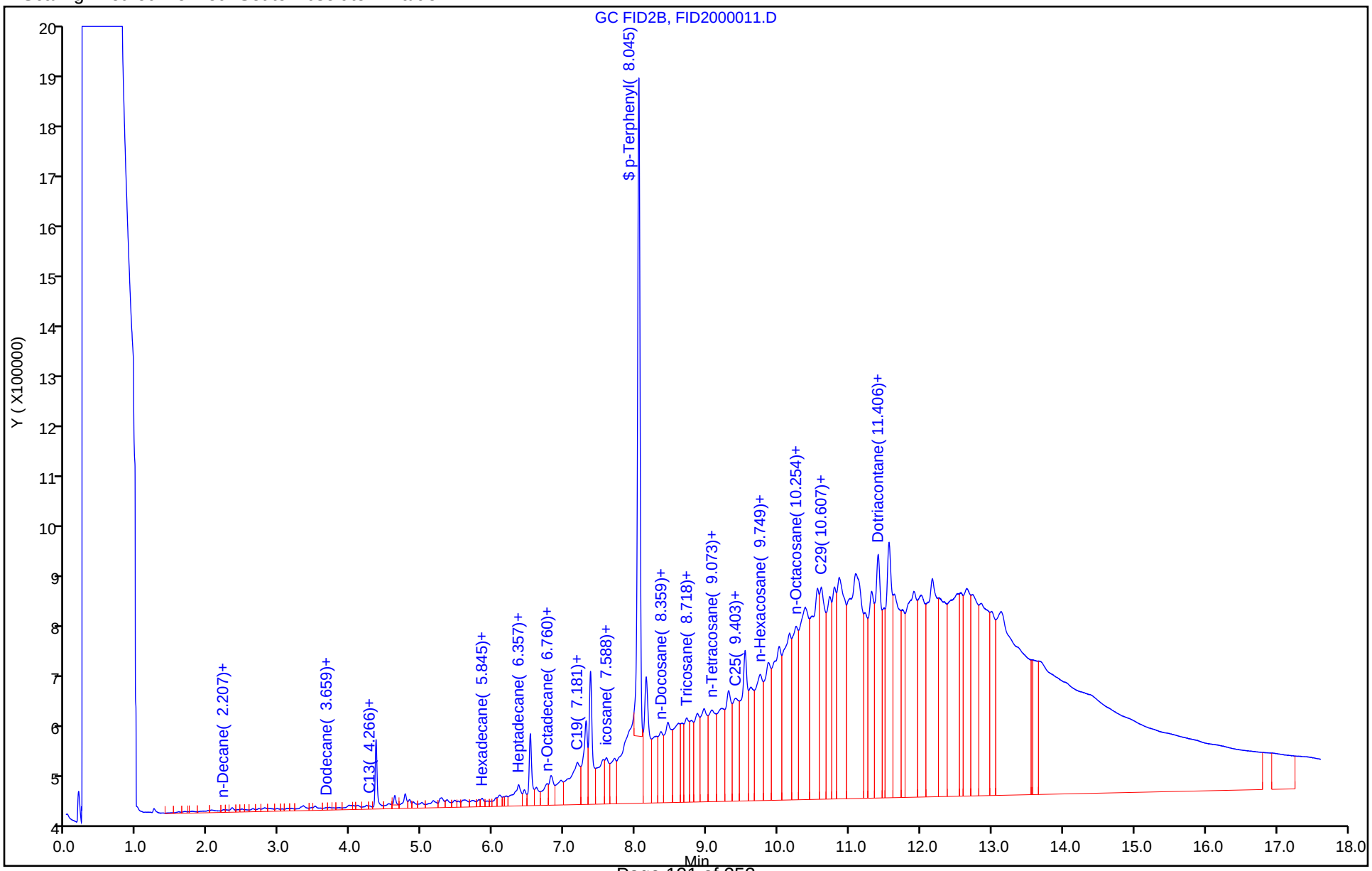
Report Date: 11-Jan-2019 12:06:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000011.D

Injection Date:	10-Jan-2019 19:11:40	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-17-B	Lab Sample ID:	720-90640-17	Worklist Smp#:	11
Client ID:	DG-AJ5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	61
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000011.D
Lims ID: 720-90640-E-17-B
Client ID: DG-AJ5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 19:11:40 ALS Bottle#: 61 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-011
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:06:54 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:06:54

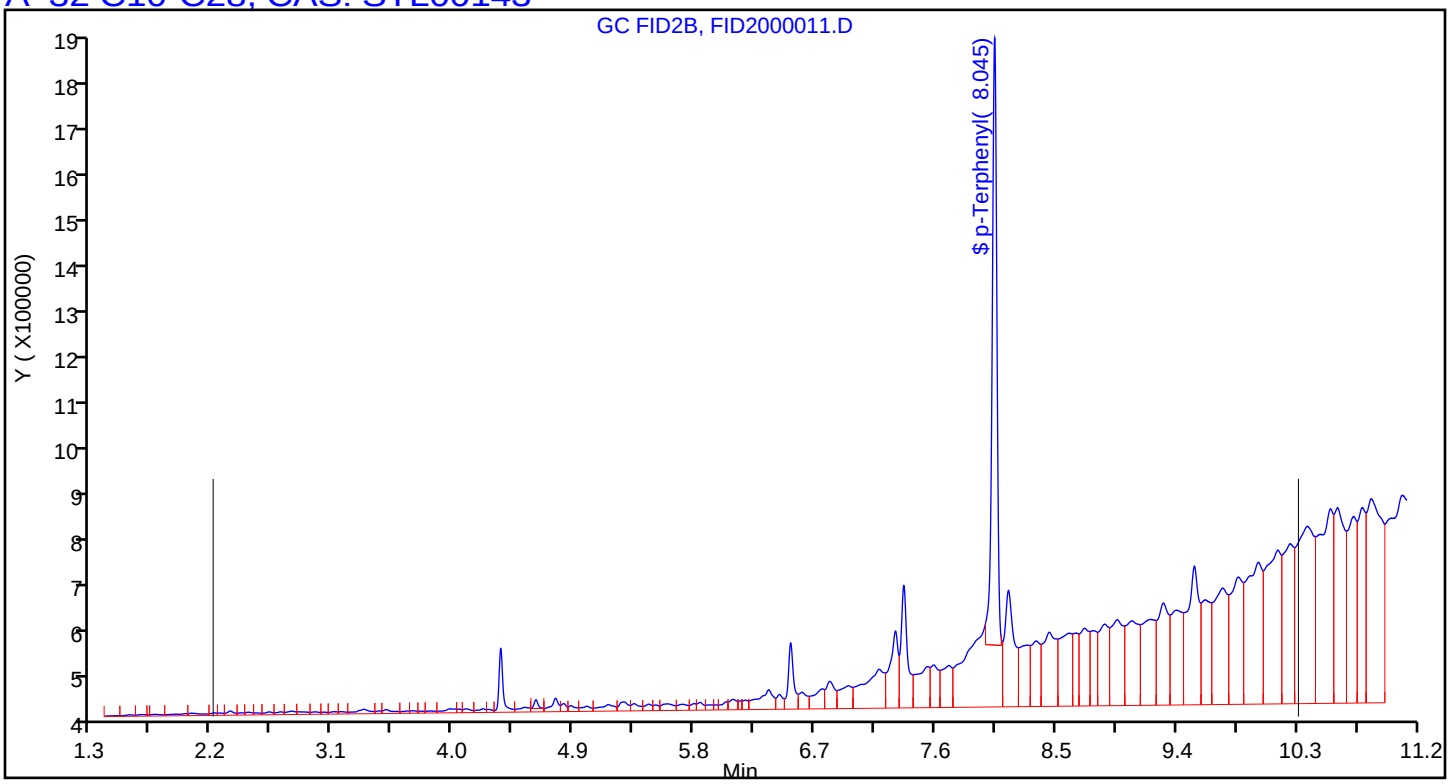
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.1	100.36

Report Date: 11-Jan-2019 12:06:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000011.D				
Injection Date:	10-Jan-2019 19:11:40	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-17-B	Lab Sample ID:	720-90640-17		
Client ID:	DG-AJ5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

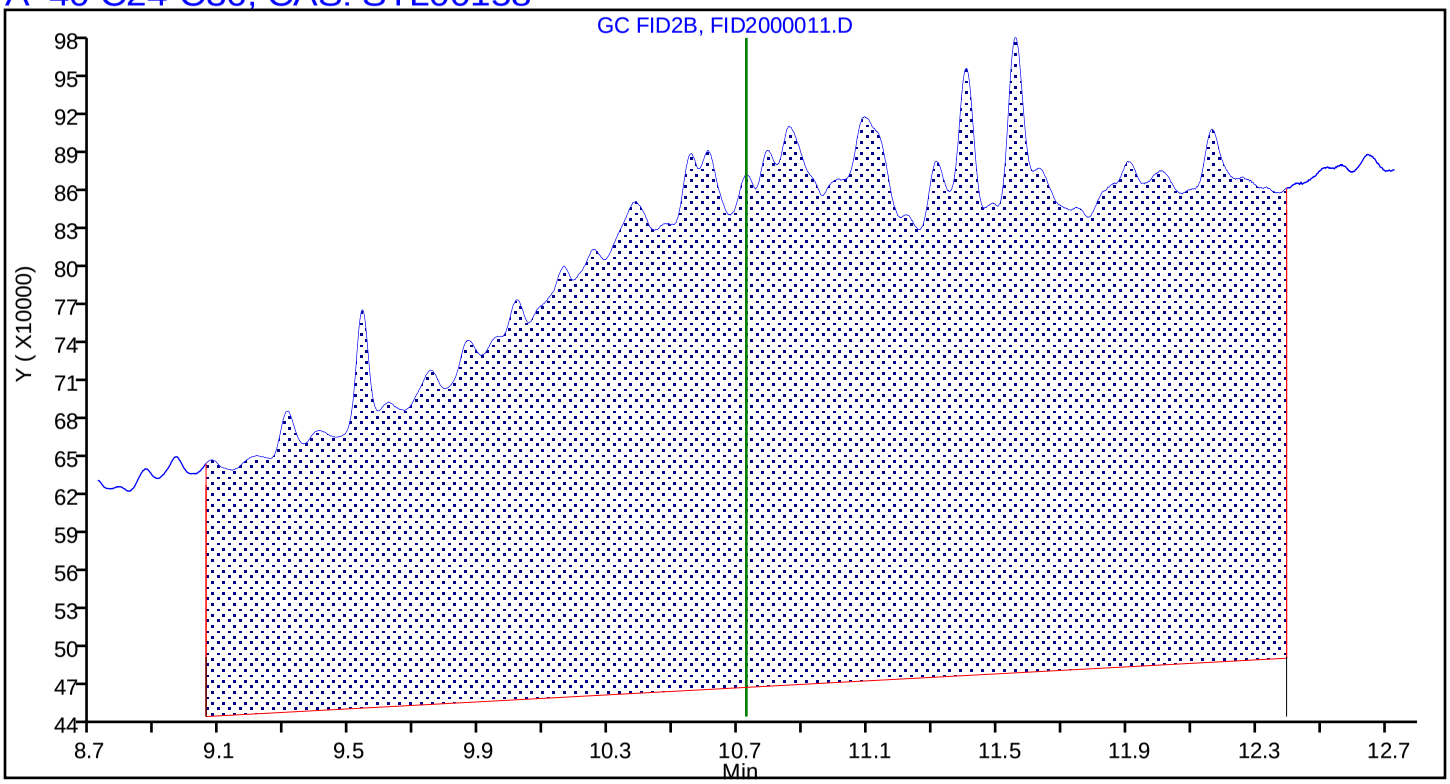


Report Date: 11-Jan-2019 12:07:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000011.D				
Injection Date:	10-Jan-2019 19:11:40	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-17-B	Lab Sample ID:	720-90640-17		
Client ID:	DG-AJ5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

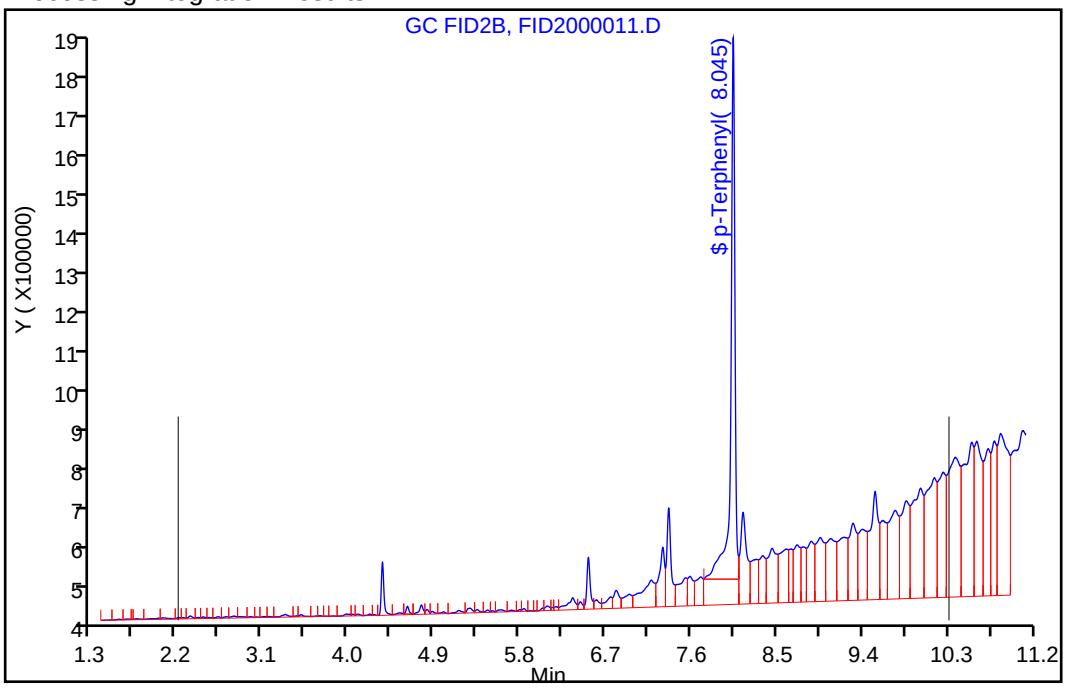
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Injection Date:	10-Jan-2019 19:11:40	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-17-B	Lab Sample ID:	720-90640-17		
Client ID:	DG-AJ5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

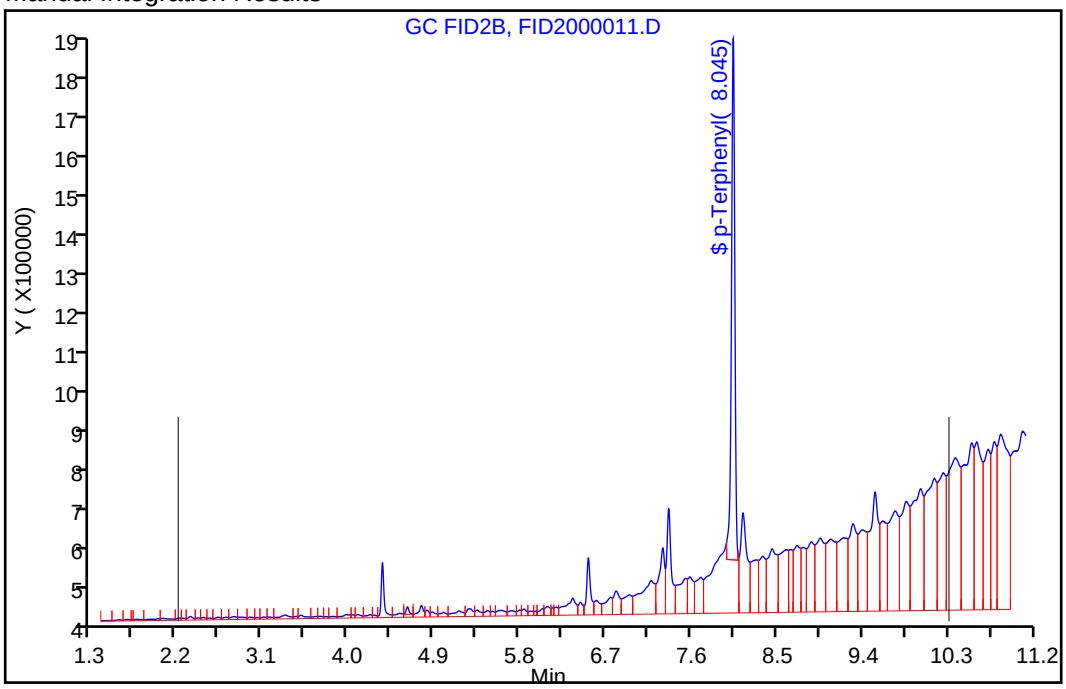
Processing Integration Results

RT: 6.26
Response: 609376691
Amount: 308.1583



Manual Integration Results

RT: 6.26
Response: 763614176
Amount: 386.1553



Reviewer: luj, 11-Jan-2019 12:06:21

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

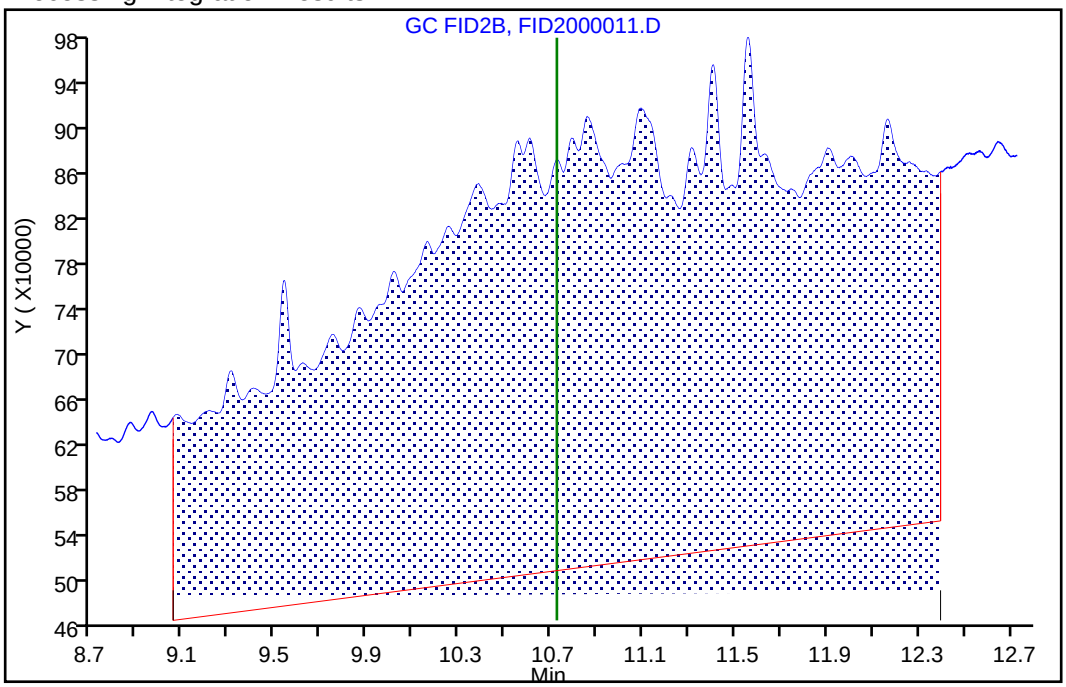
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Injection Date:	10-Jan-2019 19:11:40	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-17-B	Lab Sample ID:	720-90640-17		
Client ID:	DG-AJ5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.725, CAS: STL00158

Signal: 1

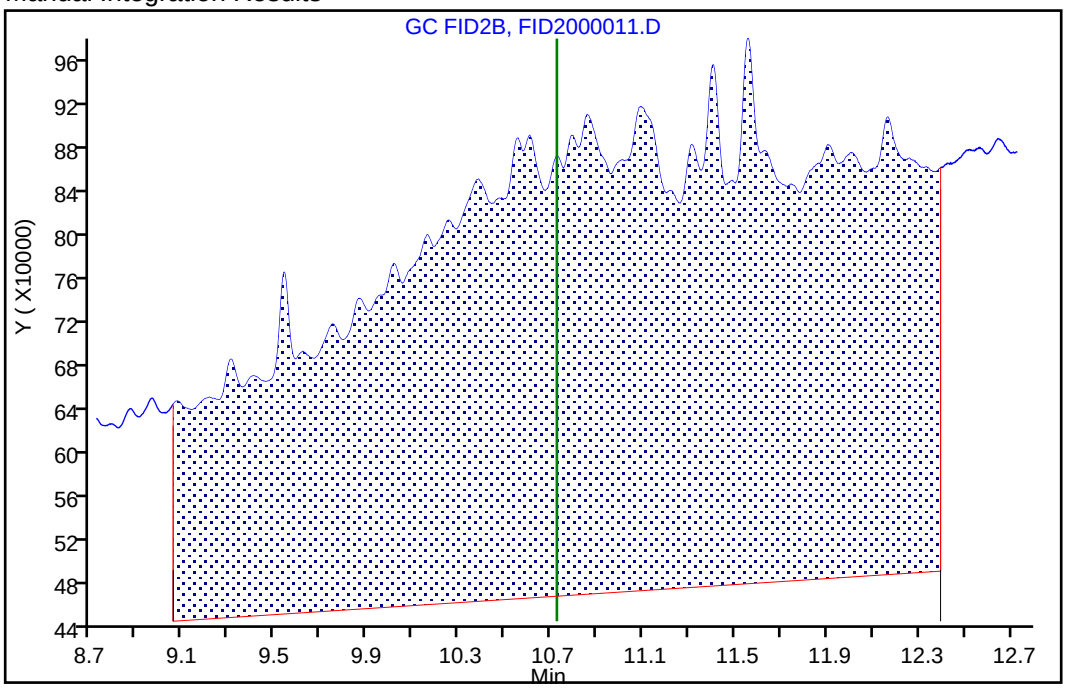
Processing Integration Results

RT: 10.72
Response: 1205867324
Amount: 1042.4111



Manual Integration Results

RT: 10.72
Response: 1371977433
Amount: 1186.0048



Reviewer: luj, 11-Jan-2019 12:06:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

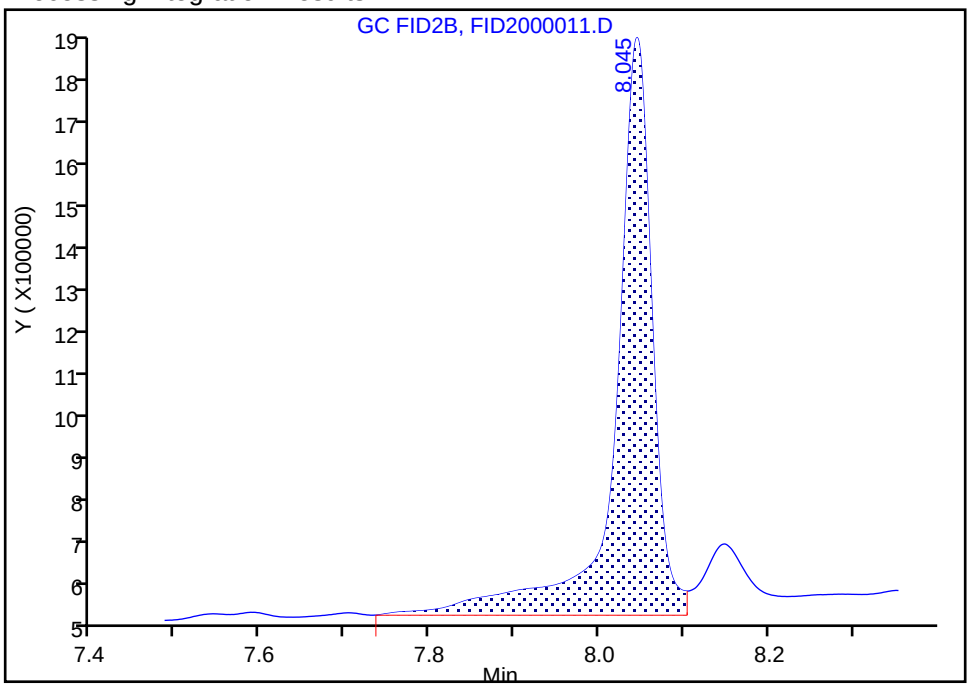
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Injection Date:	10-Jan-2019 19:11:40	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-17-B	Lab Sample ID:	720-90640-17		
Client ID:	DG-AJ5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

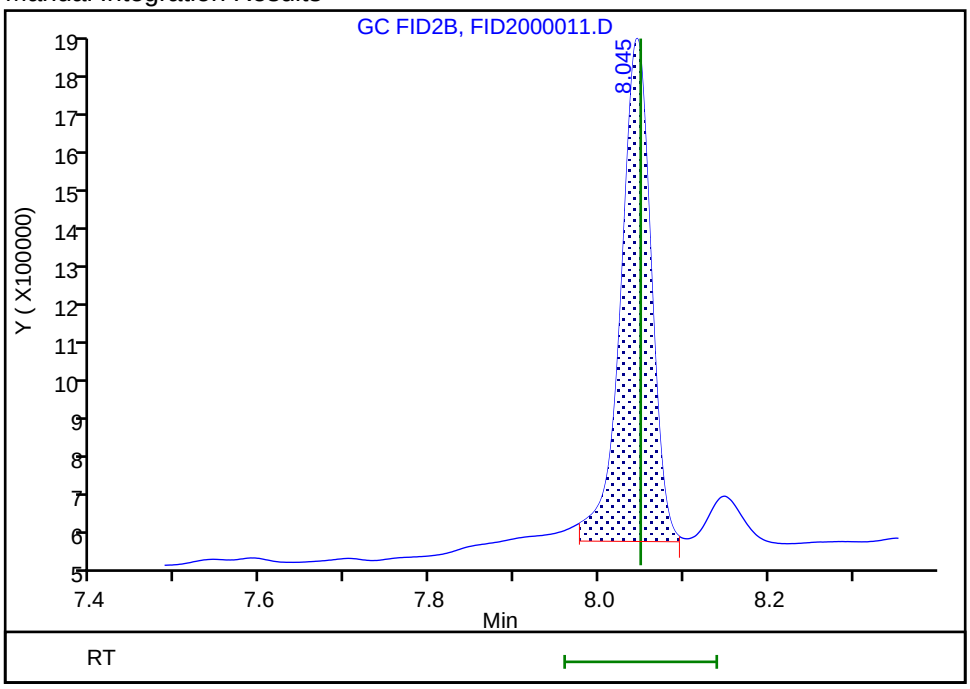
Processing Integration Results

RT: 8.05
Area: 83742350
Amount: 32.439651
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 64769878
Amount: 25.090199
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 12:06:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000022.D
Lims ID: 720-90640-E-18-B
Client ID: DG-AJ5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 23:39:07 ALS Bottle#: 72 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 720-0056021-022
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:37:30 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:37:30

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	1.357	1.354	0.003	195514	NC	M
23 n-Decane	2.206	2.206	0.000	845542	NC	M
A 21 Stoddard Solvent	2.809	(1.354-4.264)		20473850	8.60	M
A 1 C9-C13	2.809	(1.354-4.264)		20473850	NC	M
A 57 C10-C12	2.929	(2.206-3.652)		10491083	5.31	M
24 Dodecane	3.656	3.652	0.004	1021170	NC	M
A 3 C9 - C17	3.834	(1.354-6.313)		85439816	29.8	M
A 60 C10-C16	4.024	(2.206-5.842)		58905788	23.0	M
A 47 C9 - C18	4.056	(1.354-6.758)		110500499	48.7	M
26 C13	4.266	4.264	0.002	1535169	NC	M
A 25 C9-C19	4.268	(1.354-7.181)		139247471	48.2	M
A 15 Kerosene	4.268	(1.354-7.181)		139247471	61.3	M
$ 27 n-Decanoic Acid (Surr)		4.614			ND	U
A 59 C12-C16	4.747	(3.652-5.842)		48414705	24.5	M
A 61 C10-C20	4.897	(2.206-7.588)		199000558	100.6	M
A 28 C9-C24	5.204	(1.354-9.054)		506833253	256.3	M
A 29 C9-C25	5.370	(1.354-9.386)		573408731	290.0	M
A 54 C10-C23	5.457	(2.206-8.709)		445658641	225.4	M
A 4 C10-C24	5.630	(2.206-9.054)		503426784	254.6	M
A 16 C10-C25	5.796	(2.206-9.386)		570002262	288.2	M
45 Hexadecane	5.846	5.842	0.004	3672145	NC	M
A 14 C10-C26	5.956	(2.206-9.706)		629182365	318.2	M
A 67 C12-C22	6.001	(3.652-8.350)		333654242	168.7	M
A 32 C10-C28	6.260	(2.206-10.314)		908002429	459.2	M
A 12 Unknown Hydrocarbons	6.260	(2.206-10.314)		908002429	NC	M
A 5 Diesel	6.260	(2.206-10.314)		908002429	459.2	M
A 30 C13-C22	6.307	(4.264-8.350)		327077944	165.4	M
44 Heptadecane	6.357	6.313	0.044	14495584	NC	M
A 31 C12-C24	6.353	(3.652-9.054)		492935701	249.3	M
49 n-Octadecane	6.758	6.758	0.000	6838336	NC	M
A 52 Mineral oil	6.875	(1.354-12.396)		1890711090	821.5	M
A 11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		1890711090	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		1890711090	NC	M
33 C19	7.189	7.181	0.008	22381535	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		890935048	450.5	M
A 17 C10-C36	7.301	(2.206-12.396)		1887304621	954.4	M
A 13 C9-C40	7.363	(1.354-13.372)		2604872196	1469.5	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		2604872196	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		444520996	224.8	M
62 icosane	7.595	7.588	0.007	10703830	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		2601465727	1469.3	M
$ 34 p-Terphenyl		8.049			ND	U
35 n-Docosane	8.354	8.350	0.004	15027949	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		2590974644	1468.7	M
36 Tricosane	8.705	8.709	-0.004	35866709	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		2584398346	1466.3	M
37 n-Tetracosane	9.055	9.054	0.001	30388571	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		1828398833	1350.3	M
38 C25	9.392	9.386	0.006	59180103	NC	M
A 19 C16-C40	9.607	(5.842-13.372)		2542559939	1445.5	M
46 n-Hexacosane	9.713	9.706	0.007	75699988	NC	M
A 20 C19-C36	9.789	(7.181-12.396)		1467612620	911.6	
A 55 C23-C32	10.063	(8.709-11.418)		1098046008	1237.8	M
39 n-Octacosane	10.259	10.314	-0.055	47943988	NC	M
65 C29	10.607	10.604	0.003	53501199	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		1253803377	1083.8	
A 40 C24-C36	10.725	(9.054-12.396)		1380172747	1193.1	M
A 10 C22-C40	10.861	(8.350-13.372)		1621615798	1001.7	
A 50 C25-C36	10.891	(9.386-12.396)		1136469838	1049.8	
A 41 C23-C40	11.040	(8.709-13.372)		1561266323	983.1	
A 8 C24-C40	11.213	(9.054-13.372)		1508821444	970.8	
56 Dotriacontane	11.411	11.418	-0.007	69220949	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		1173729749	943.6	
A 63 C29-C40	11.988	(10.604-13.372)		1053689734	922.7	
42 n-Hexatriacontane	12.412	12.396	0.016	33080645	NC	M
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

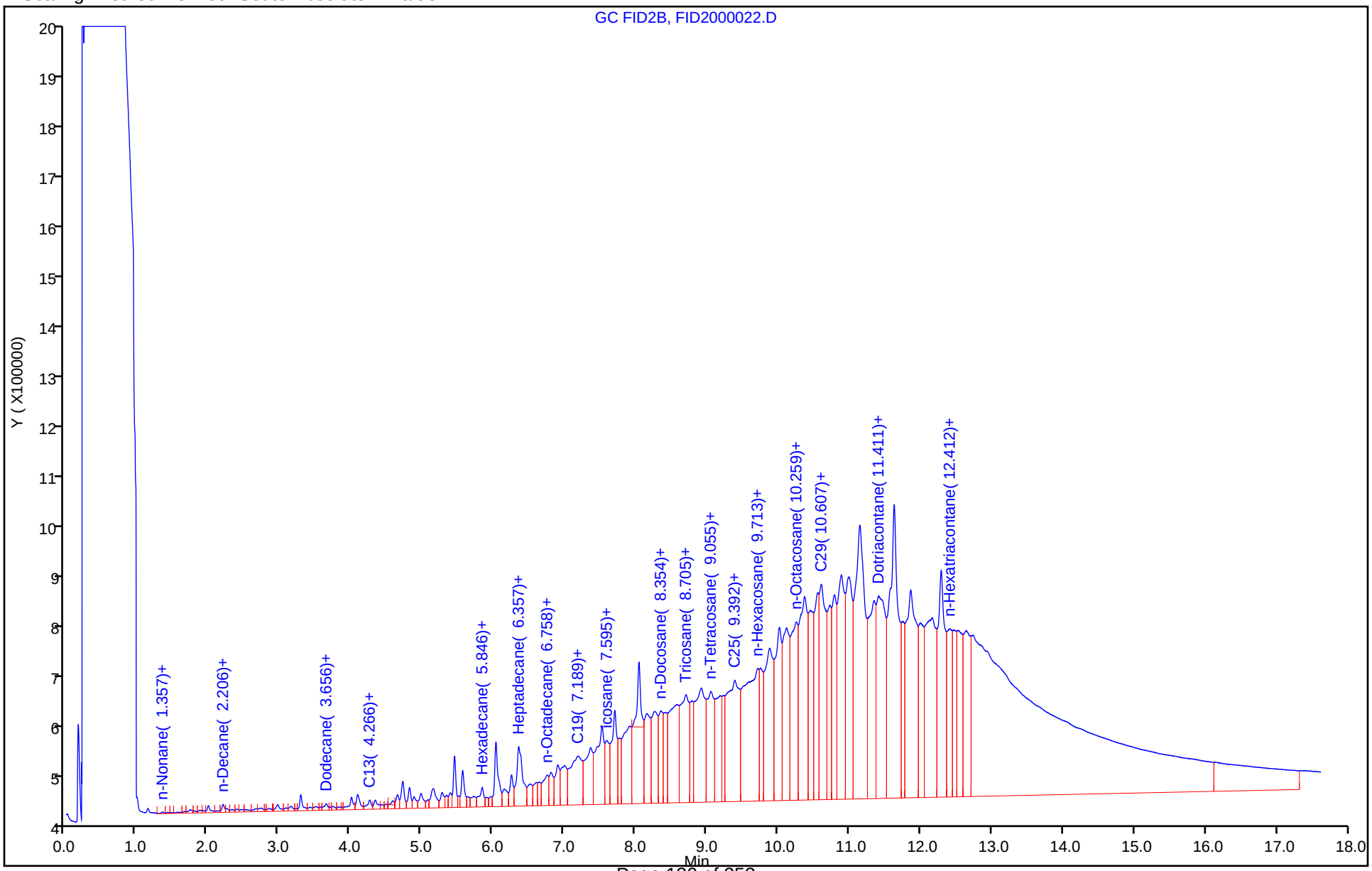
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000022.D

Injection Date:	10-Jan-2019 23:39:07	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-18-B	Lab Sample ID:	720-90640-18	Worklist Smp#:	22
Client ID:	DG-AJ5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	72
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

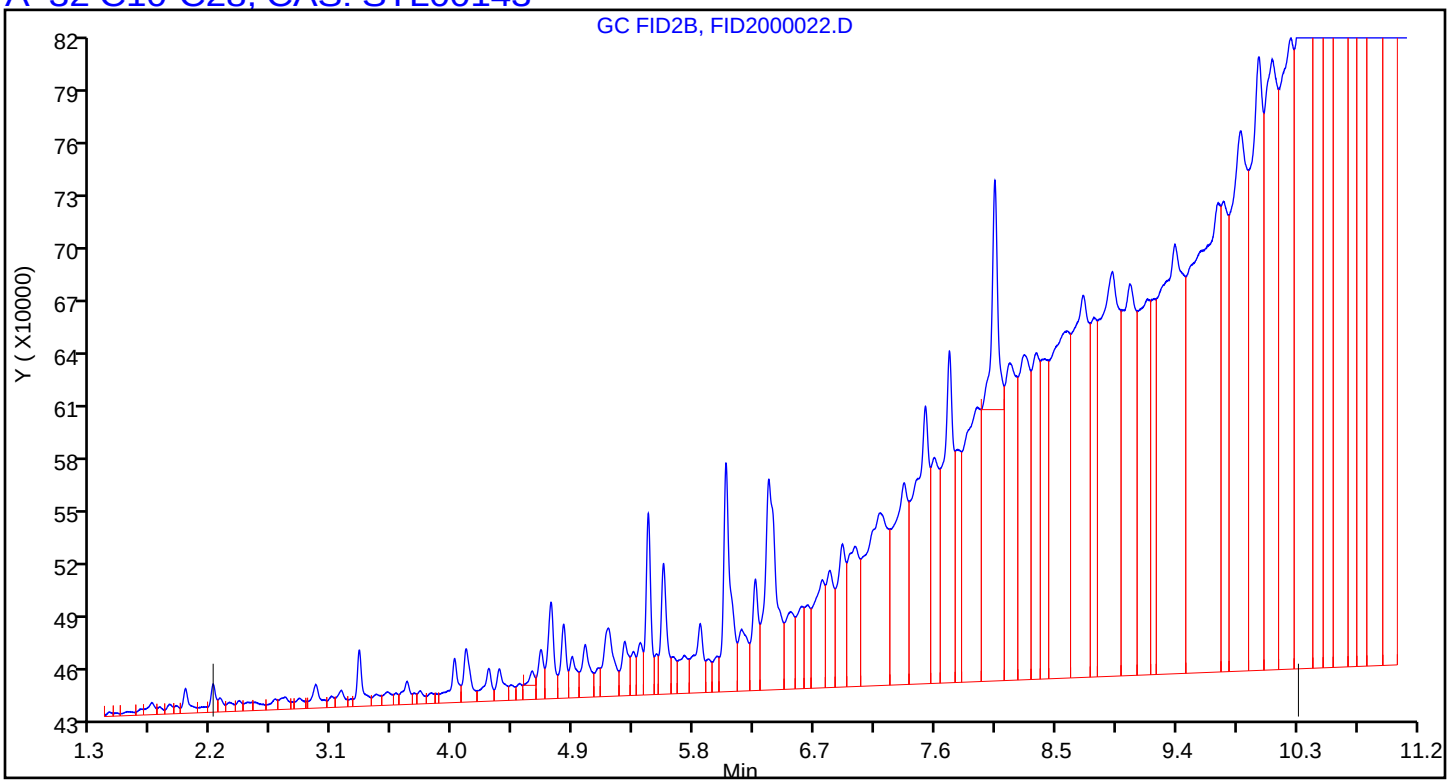


Report Date: 11-Jan-2019 12:37:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

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Injection Date:	10-Jan-2019 23:39:07	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-18-B	Lab Sample ID:	720-90640-18		
Client ID:	DG-AJ5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

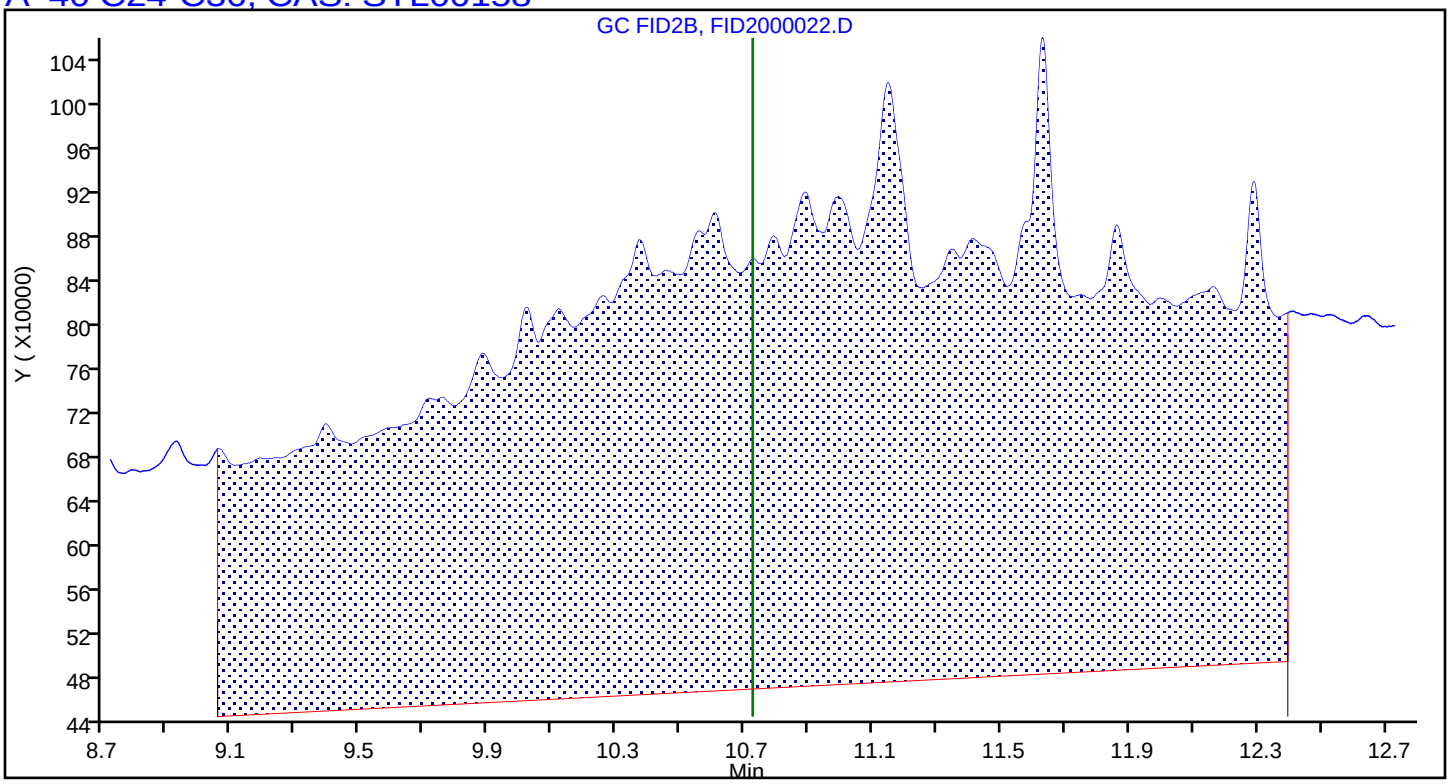


Report Date: 11-Jan-2019 12:37:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000022.D				
Injection Date:	10-Jan-2019 23:39:07	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-18-B	Lab Sample ID:	720-90640-18		
Client ID:	DG-AJ5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

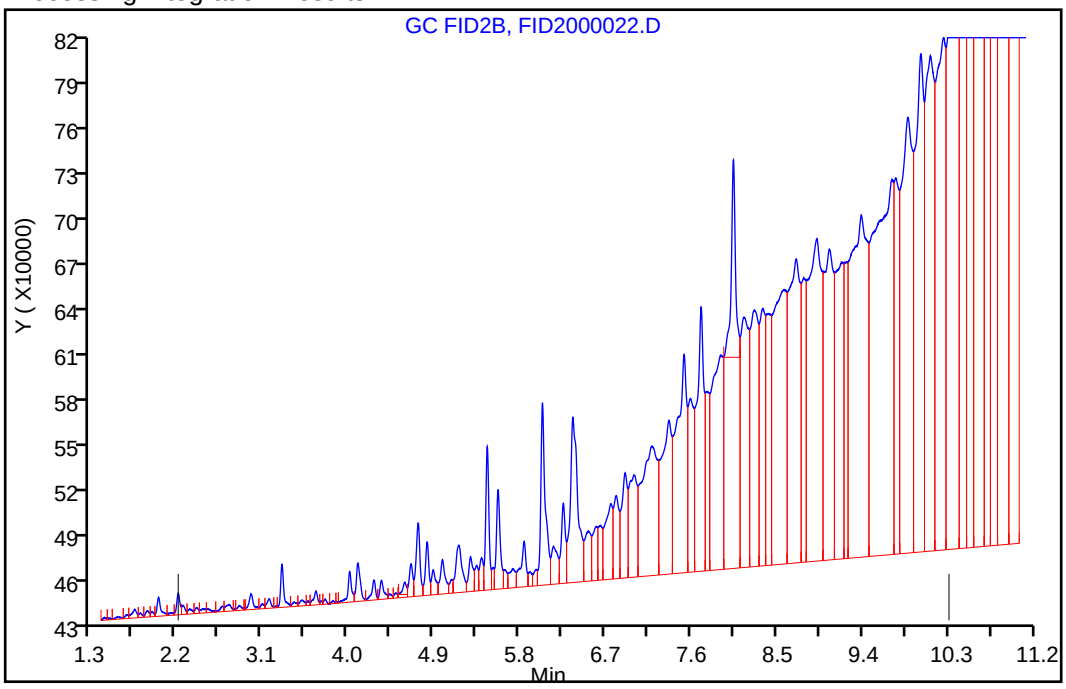
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000022.D				
Injection Date:	10-Jan-2019 23:39:07	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-18-B	Lab Sample ID:	720-90640-18		
Client ID:	DG-AJ5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

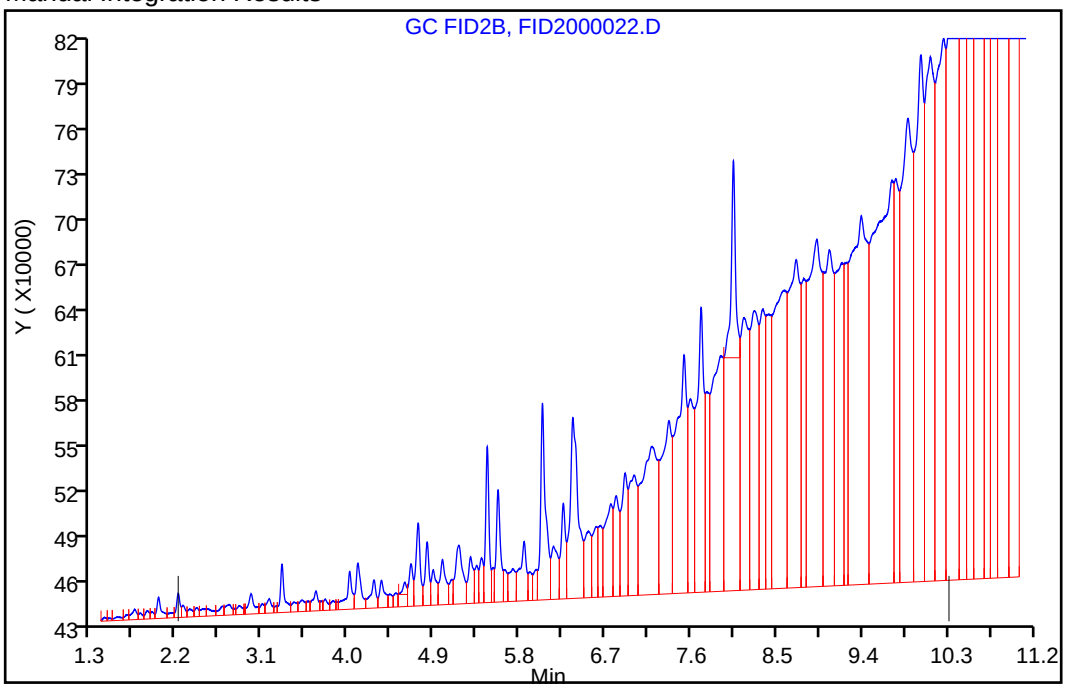
Processing Integration Results

RT: 6.26
Response: 794017023
Amount: 401.5298



Manual Integration Results

RT: 6.26
Response: 908002429
Amount: 459.1716



Reviewer: luj, 11-Jan-2019 12:37:23

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

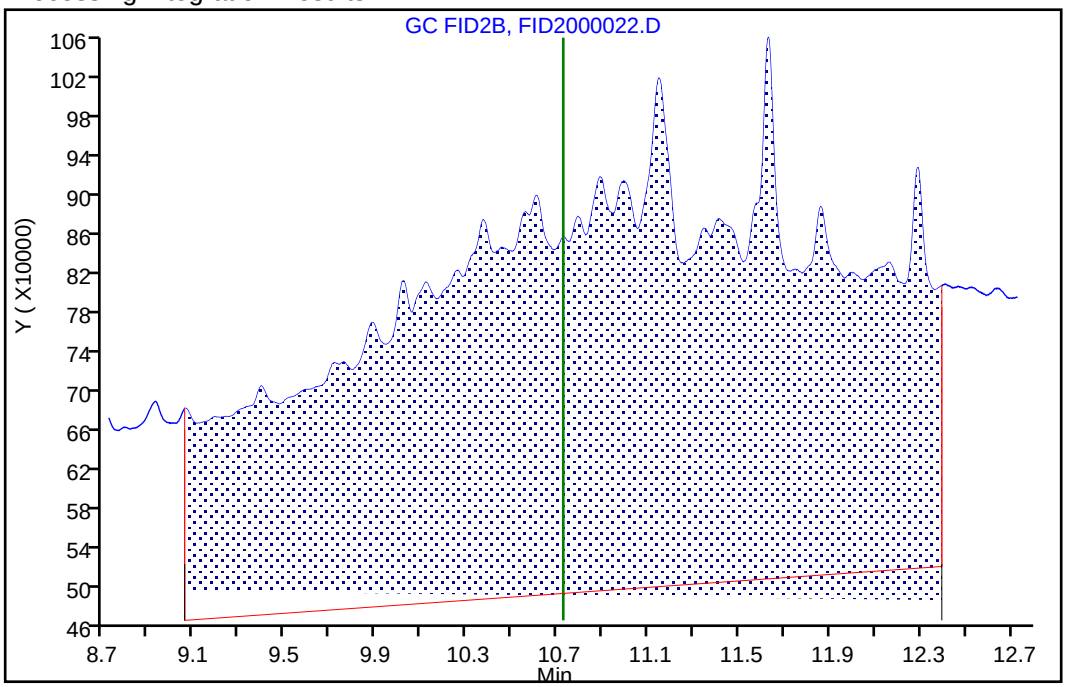
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000022.D				
Injection Date:	10-Jan-2019 23:39:07	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-18-B	Lab Sample ID:	720-90640-18		
Client ID:	DG-AJ5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.725, CAS: STL00158

Signal: 1

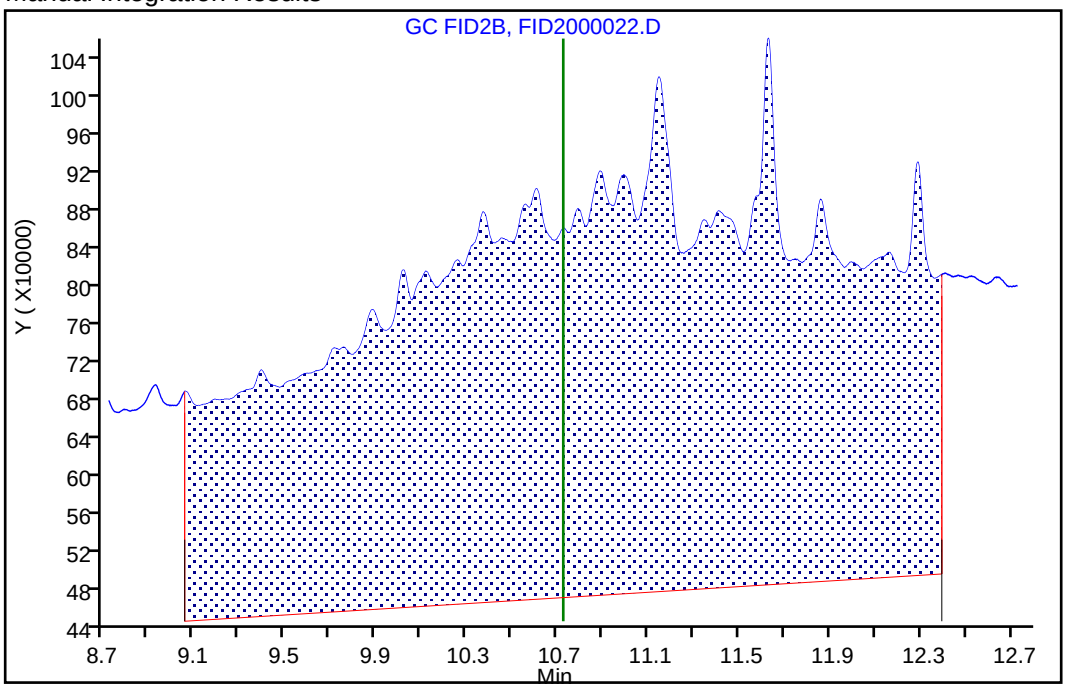
Processing Integration Results

RT: 10.72
Response: 1253803377
Amount: 1083.8493



Manual Integration Results

RT: 10.72
Response: 1380172747
Amount: 1193.0892



Reviewer: luj, 11-Jan-2019 12:37:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

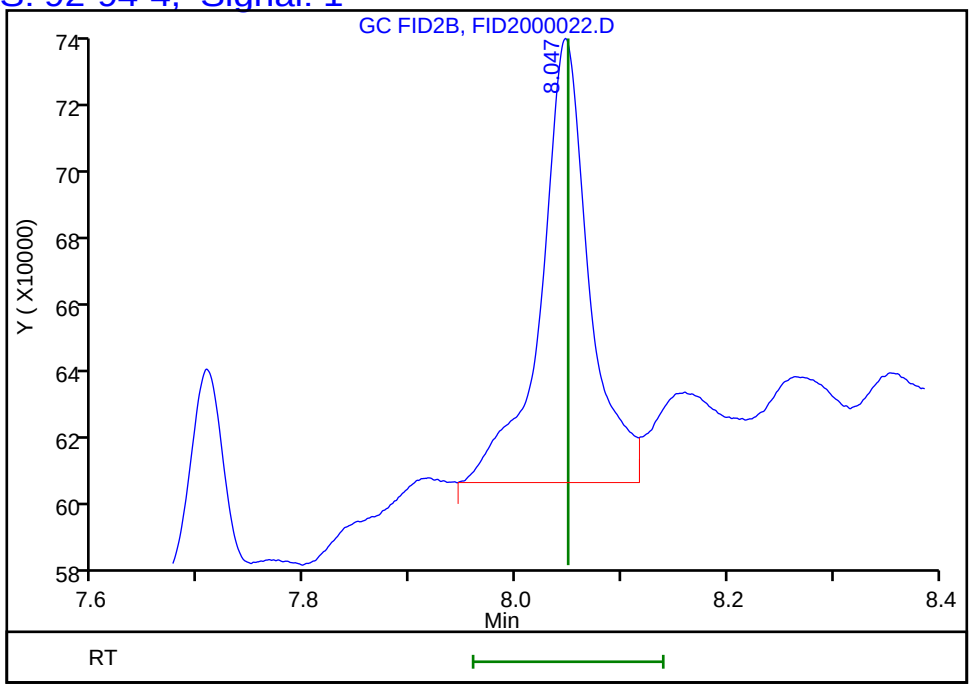
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000022.D				
Injection Date:	10-Jan-2019 23:39:07	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-18-B	Lab Sample ID:	720-90640-18		
Client ID:	DG-AJ5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.05
Response: 8174250
Amount: 3.166496



Reviewer: luj, 11-Jan-2019 12:37:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000012.D
Lims ID: 720-90640-E-19-B
Client ID: DG-P5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 19:35:50 ALS Bottle#: 62 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-012
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:09:01 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:09:01

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.356	1.354	0.002	2968	NC	M
	23 n-Decane	2.206	2.206	0.000	471125	NC	M
A	21 Stoddard Solvent	2.809	(1.354-4.264)		11135530	4.68	M
A	1 C9-C13	2.809	(1.354-4.264)		11135530	NC	M
A	57 C10-C12	2.929	(2.206-3.652)		6118165	3.09	M
	24 Dodecane	3.658	3.652	0.006	545600	NC	M
A	3 C9 - C17	3.834	(1.354-6.313)		37352375	13.0	M
A	60 C10-C16	4.024	(2.206-5.842)		28620748	11.2	M
A	47 C9 - C18	4.056	(1.354-6.758)		57052720	25.1	M
	26 C13	4.265	4.264	0.001	490878	NC	M
A	25 C9-C19	4.268	(1.354-7.181)		70255600	24.3	M
A	15 Kerosene	4.268	(1.354-7.181)		70255600	30.9	M
$	27 n-Decanoic Acid (Surr)		4.614			ND	U
A	59 C12-C16	4.747	(3.652-5.842)		22502583	11.4	M
A	61 C10-C20	4.897	(2.206-7.588)		115271724	58.3	M
A	28 C9-C24	5.204	(1.354-9.054)		295512282	149.4	M
A	29 C9-C25	5.370	(1.354-9.386)		350047941	177.0	M
A	54 C10-C23	5.457	(2.206-8.709)		239087709	120.9	M
A	4 C10-C24	5.630	(2.206-9.054)		294508513	148.9	M
A	16 C10-C25	5.796	(2.206-9.386)		349044172	176.5	M
	45 Hexadecane	5.842	5.842	0.000	1295553	NC	M
A	14 C10-C26	5.956	(2.206-9.706)		396308581	200.4	M
A	67 C12-C22	6.001	(3.652-8.350)		183916059	93.0	M
A	32 C10-C28	6.260	(2.206-10.314)		529861898	267.9	M
A	12 Unknown Hydrocarbons	6.260	(2.206-10.314)		529861898	NC	M
A	5 Diesel	6.260	(2.206-10.314)		529861898	267.9	M
A	30 C13-C22	6.307	(4.264-8.350)		179902463	91.0	M
	44 Heptadecane	6.357	6.313	0.044	7213426	NC	M
A	31 C12-C24	6.353	(3.652-9.054)		288390348	145.8	M
	49 n-Octadecane	6.757	6.758	-0.001	4507205	NC	M
A	52 Mineral oil	6.875	(1.354-12.396)		1248460150	542.5	M
A	11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		1248460150	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		1248460150	NC	M
33 C19	7.226	7.181	0.045	14036372	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		519730137	262.8	M
A 17 C10-C36	7.301	(2.206-12.396)		1247456381	630.8	M
A 13 C9-C40	7.363	(1.354-13.372)		1639947756	925.2	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		1639947756	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		265887765	134.5	M
62 icosane	7.592	7.588	0.004	5757671	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		1638943987	925.6	M
$ 34 p-Terphenyl	8.046	8.049	-0.003	57876484	22.4	M
35 n-Docosane	8.351	8.350	0.001	20713628	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		1632825822	925.6	M
36 Tricosane	8.711	8.709	0.002	21946457	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		1628812226	924.1	M
37 n-Tetracosane	9.068	9.054	0.014	21003973	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		1218835633	900.2	M
38 C25	9.392	9.386	0.006	20452988	NC	M
A 19 C16-C40	9.607	(5.842-13.372)		1610323239	915.5	M
46 n-Hexacosane	9.744	9.706	0.038	33477155	NC	M
A 20 C19-C36	9.789	(7.181-12.396)		822503683	510.9	
A 55 C23-C32	10.063	(8.709-11.418)		683345985	770.3	M
39 n-Octacosane	10.369	10.314	0.055	51934435	NC	M
65 C29	10.602	10.604	-0.002	28499451	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		779544058	673.9	
A 40 C24-C36	10.725	(9.054-12.396)		952725073	823.6	M
A 10 C22-C40	10.861	(8.350-13.372)		1026439722	634.0	
A 50 C25-C36	10.891	(9.386-12.396)		694279897	641.4	
A 41 C23-C40	11.040	(8.709-13.372)		1008660461	635.2	
A 8 C24-C40	11.213	(9.054-13.372)		1049316003	675.1	
56 Dotriacontane	11.406	11.418	-0.012	34368139	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		867678360	697.5	
A 63 C29-C40	11.988	(10.604-13.372)		799122090	699.8	
42 n-Hexatriacontane	12.405	12.396	0.009	26086813	NC	M
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

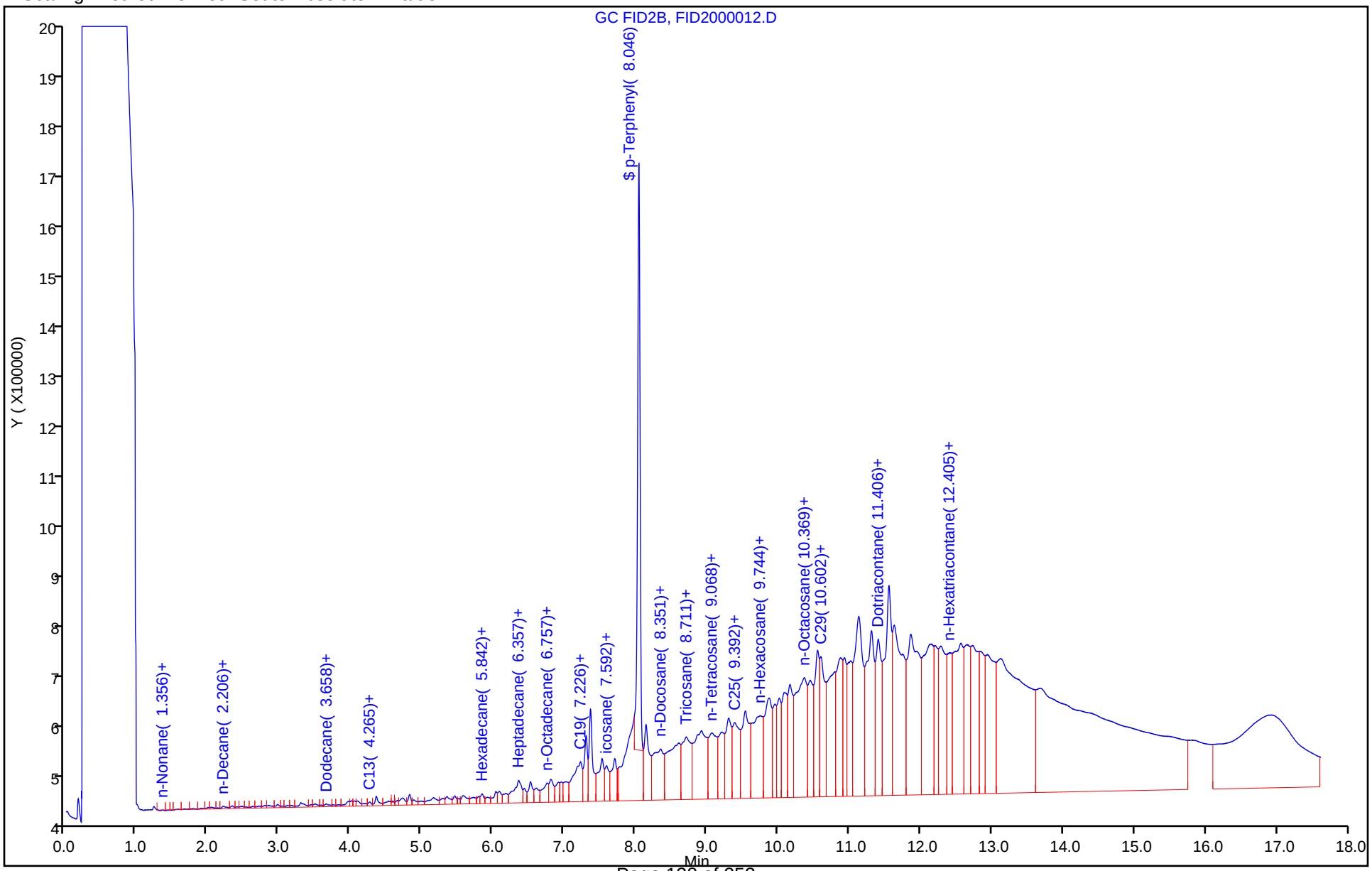
Report Date: 11-Jan-2019 12:09:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000012.D

Injection Date:	10-Jan-2019 19:35:50	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-19-B	Lab Sample ID:	720-90640-19	Worklist Smp#:	12
Client ID:	DG-P5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	62
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000012.D
Lims ID: 720-90640-E-19-B
Client ID: DG-P5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 19:35:50 ALS Bottle#: 62 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-012
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:09:01 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:09:01

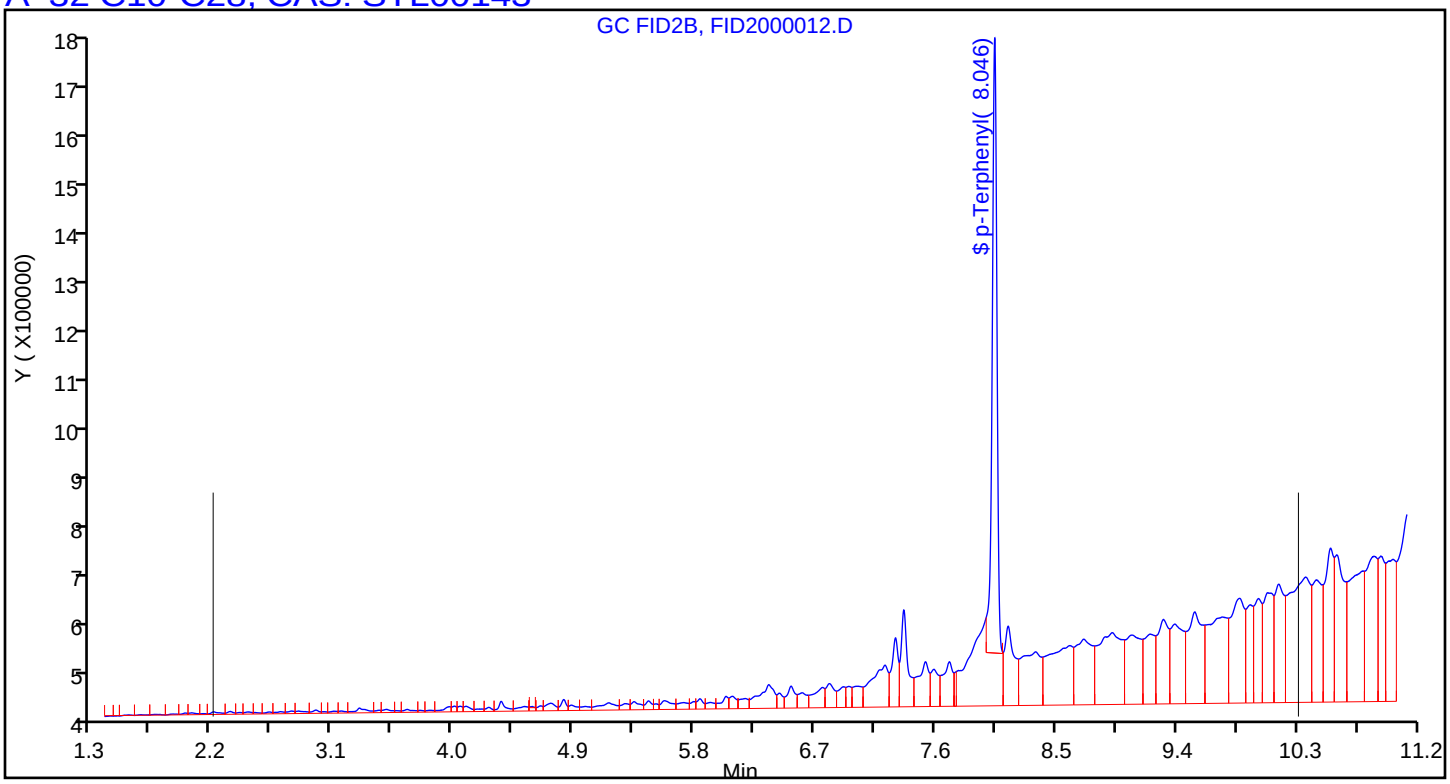
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.4	89.68

Report Date: 11-Jan-2019 12:09:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000012.D				
Injection Date:	10-Jan-2019 19:35:50	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-19-B	Lab Sample ID:	720-90640-19		
Client ID:	DG-P5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

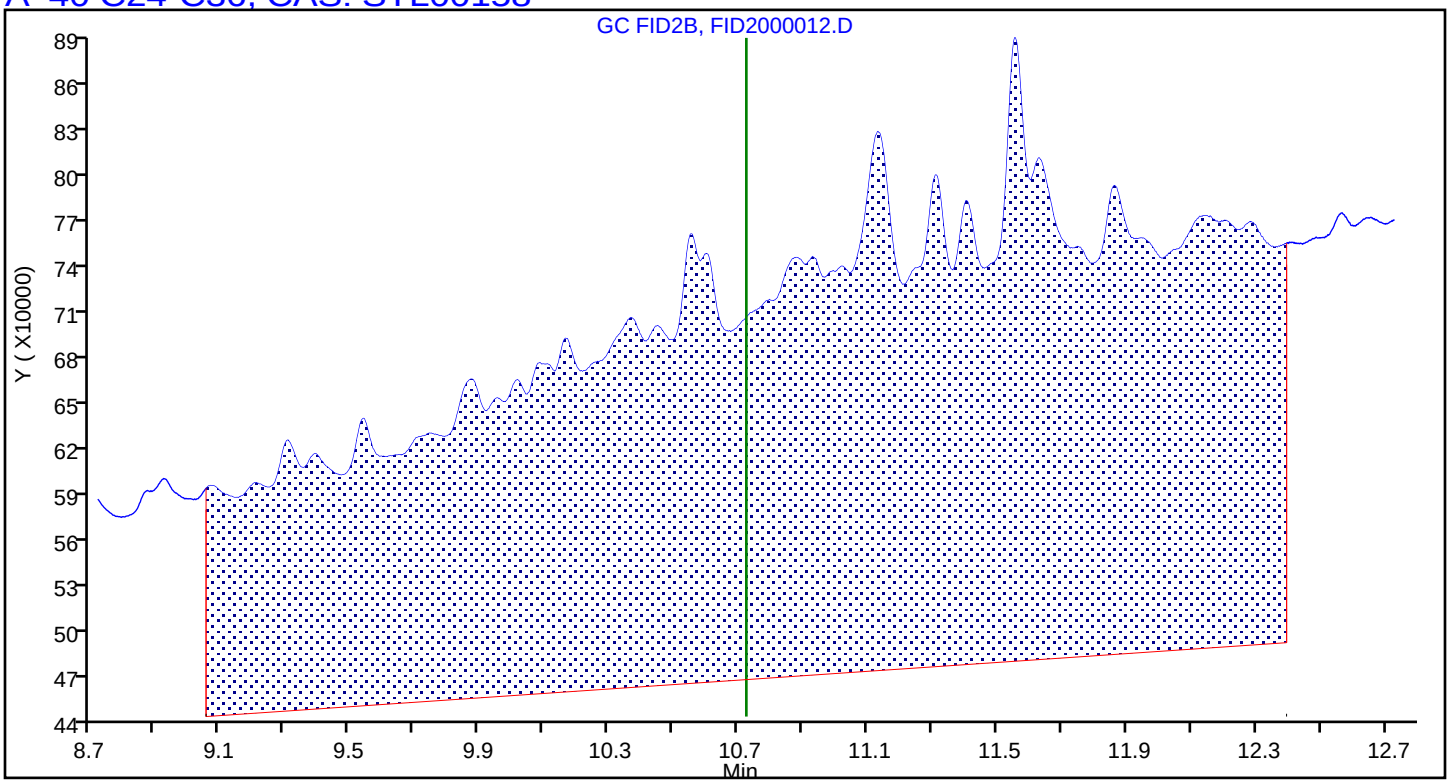


Report Date: 11-Jan-2019 12:09:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000012.D				
Injection Date:	10-Jan-2019 19:35:50	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-19-B	Lab Sample ID:	720-90640-19		
Client ID:	DG-P5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

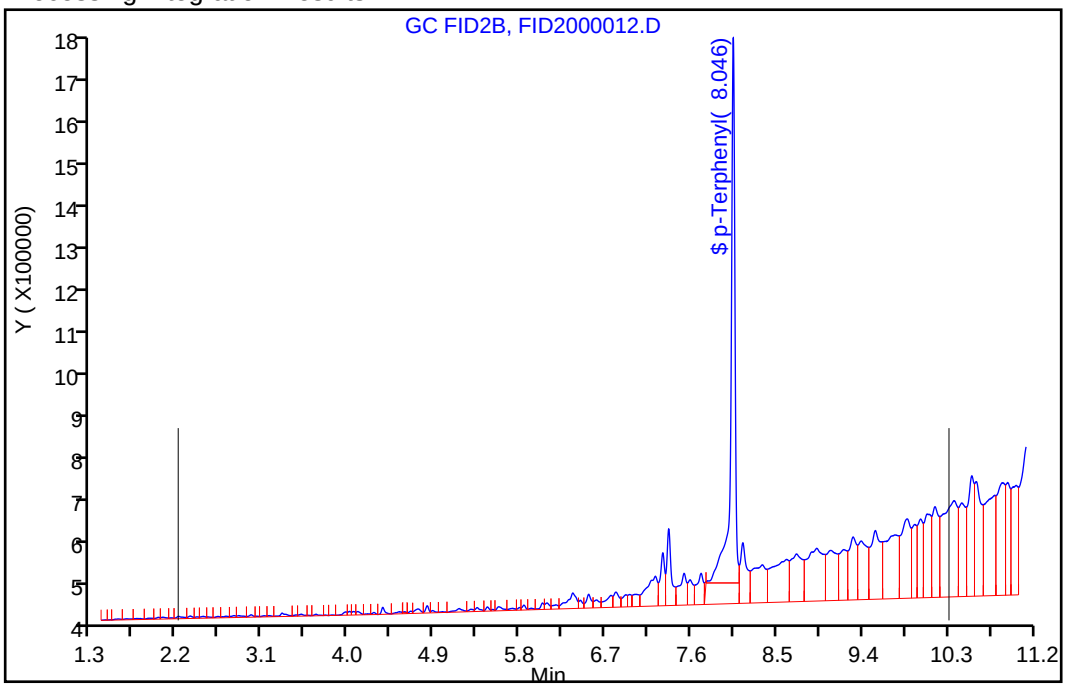
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000012.D				
Injection Date:	10-Jan-2019 19:35:50	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-19-B	Lab Sample ID:	720-90640-19		
Client ID:	DG-P5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

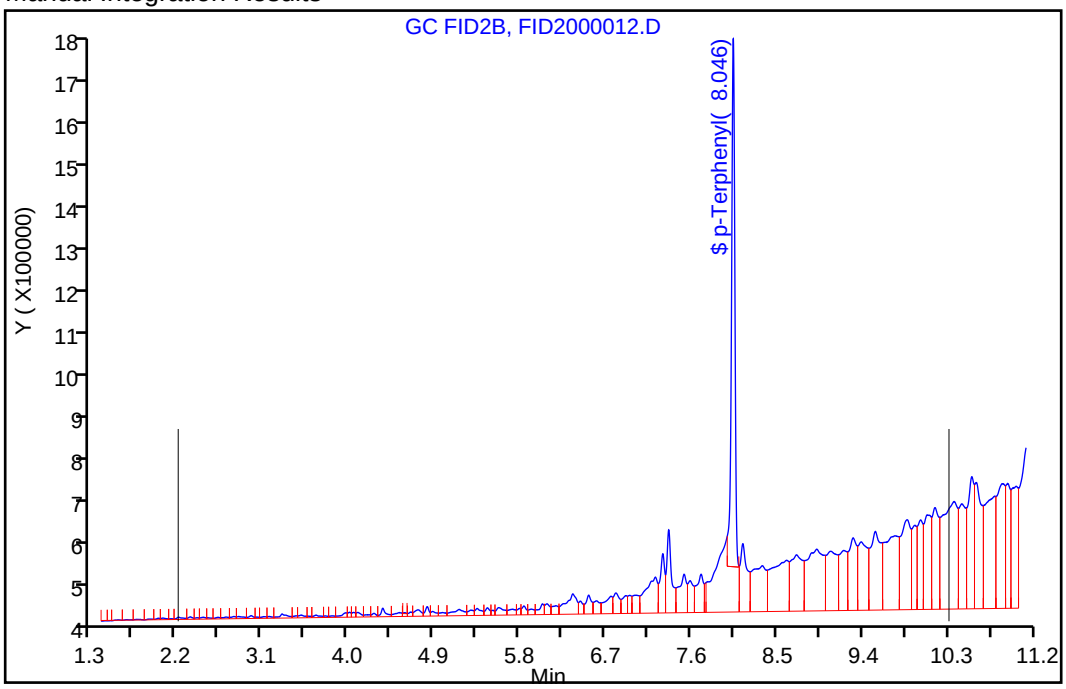
Processing Integration Results

RT: 6.26
Response: 408428051
Amount: 206.5397



Manual Integration Results

RT: 6.26
Response: 529861898
Amount: 267.9481



Reviewer: luj, 11-Jan-2019 12:08:20

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

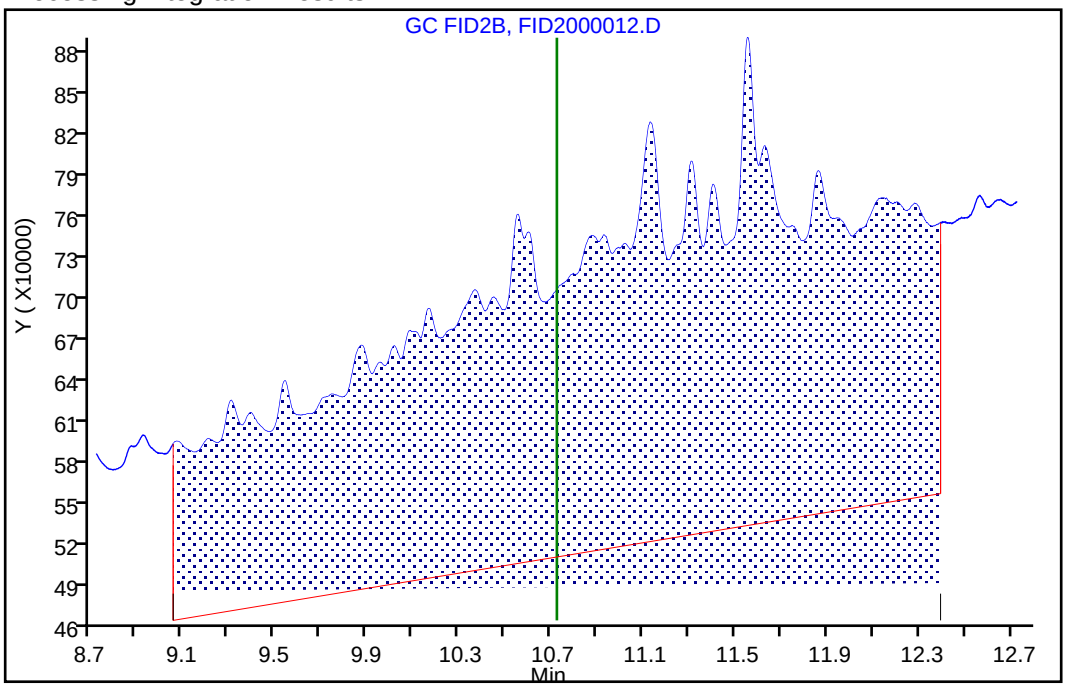
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000012.D				
Injection Date:	10-Jan-2019 19:35:50	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-19-B	Lab Sample ID:	720-90640-19		
Client ID:	DG-P5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.725, CAS: STL00158

Signal: 1

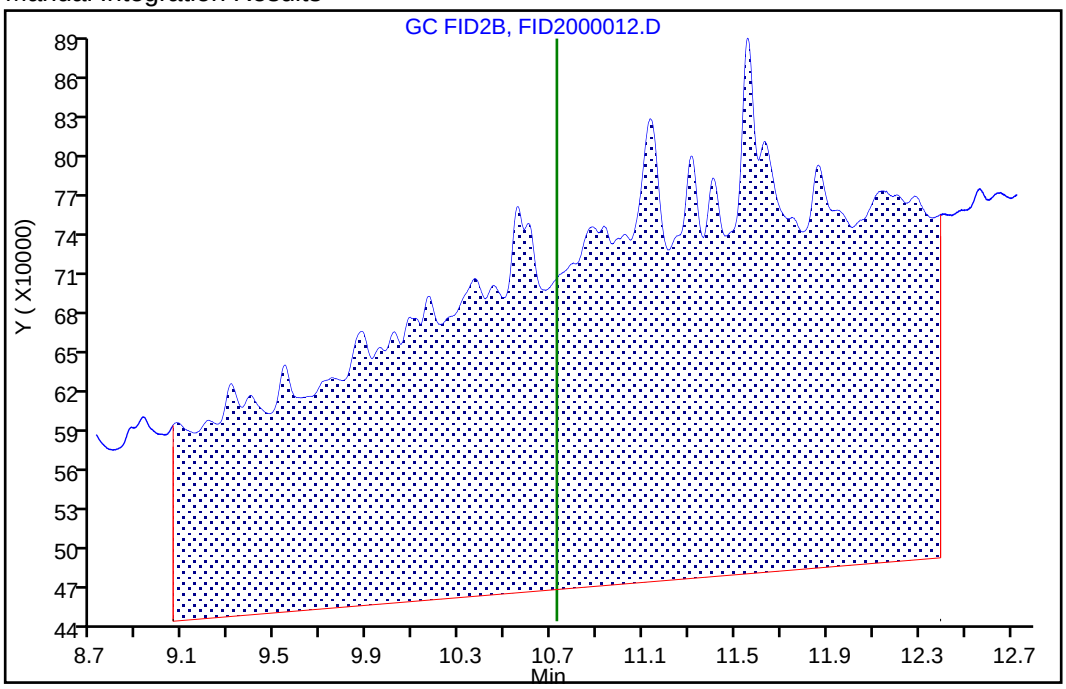
Processing Integration Results

RT: 10.72
Response: 779544058
Amount: 673.8762



Manual Integration Results

RT: 10.72
Response: 952725073
Amount: 823.5824



Reviewer: luj, 11-Jan-2019 12:08:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

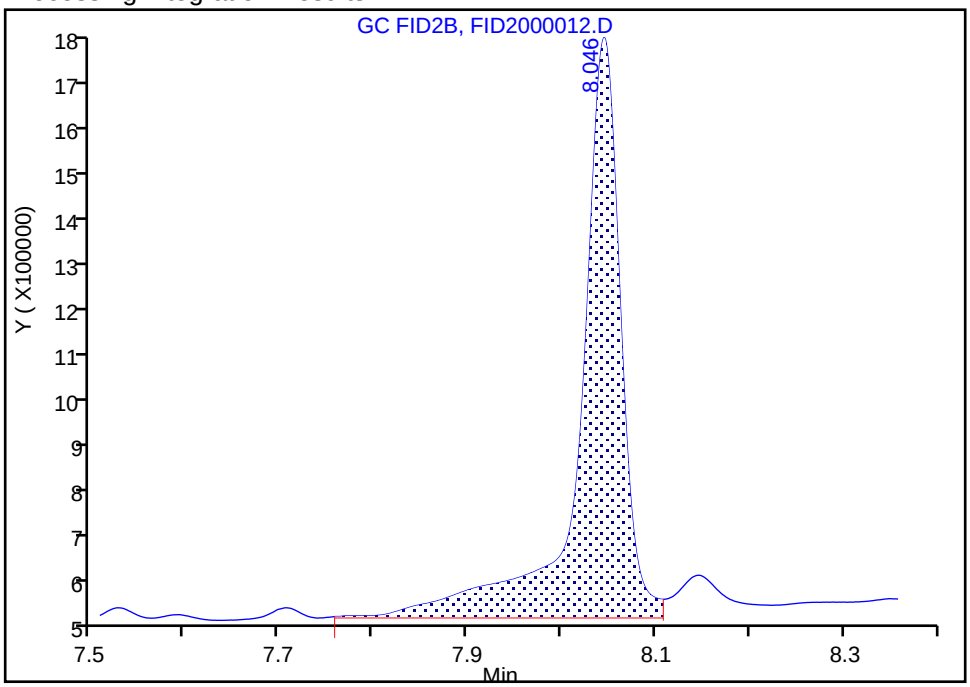
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000012.D				
Injection Date:	10-Jan-2019 19:35:50	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-19-B	Lab Sample ID:	720-90640-19		
Client ID:	DG-P5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	62	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

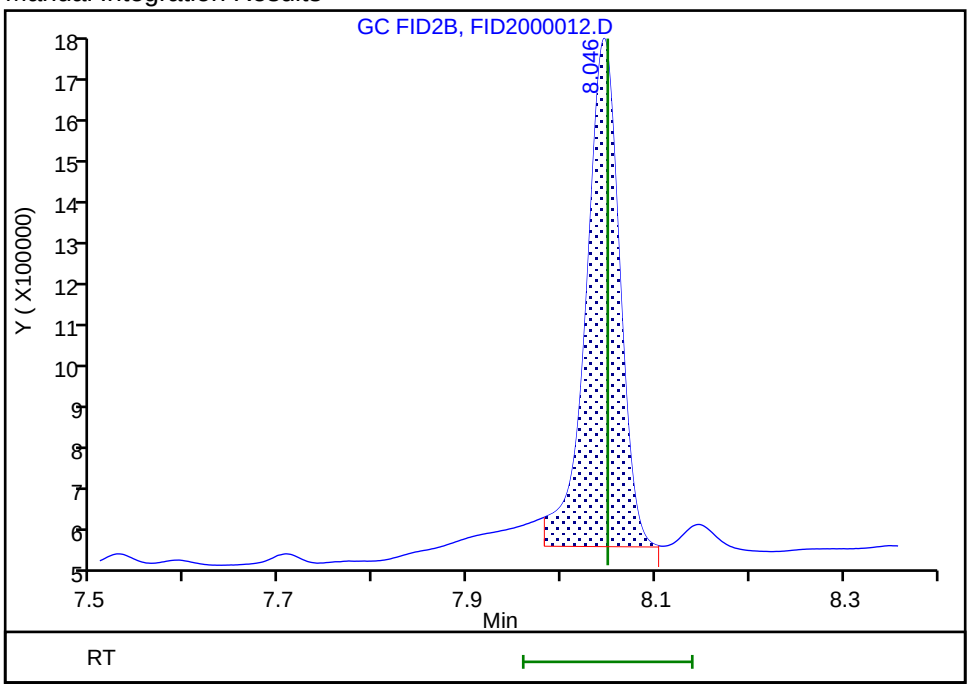
Processing Integration Results

RT: 8.05
Area: 74883002
Amount: 29.007766
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 57876484
Amount: 22.419874
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 12:08:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000016.D
Lims ID: 720-90640-E-20-G
Client ID: DG-P5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 21:13:13 ALS Bottle#: 66 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 720-0056021-016
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:18:13 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:18:13

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	1.348	1.354	-0.006	88421	NC	M
23 n-Decane	2.207	2.206	0.001	269945	NC	M
A 21 Stoddard Solvent	2.809	(1.354-4.264)		9688636	4.07	M
A 1 C9-C13	2.809	(1.354-4.264)		9688636	NC	M
A 57 C10-C12	2.929	(2.206-3.652)		5301525	2.68	M
24 Dodecane	3.658	3.652	0.006	485465	NC	M
A 3 C9 - C17	3.834	(1.354-6.313)		19699588	6.86	M
A 60 C10-C16	4.024	(2.206-5.842)		14696013	5.74	M
A 47 C9 - C18	4.056	(1.354-6.758)		23411542	10.3	M
26 C13	4.267	4.264	0.003	188485	NC	M
A 25 C9-C19	4.268	(1.354-7.181)		29991558	10.4	M
A 15 Kerosene	4.268	(1.354-7.181)		29991558	13.2	M
$ 27 n-Decanoic Acid (Surr)		4.614			ND	MU
A 59 C12-C16	4.747	(3.652-5.842)		9394488	4.75	M
A 61 C10-C20	4.897	(2.206-7.588)		34379953	17.4	M
A 28 C9-C24	5.204	(1.354-9.054)		126236535	63.8	M
A 29 C9-C25	5.370	(1.354-9.386)		137386997	69.5	M
A 54 C10-C23	5.457	(2.206-8.709)		78878365	39.9	M
A 4 C10-C24	5.630	(2.206-9.054)		124063164	62.7	M
A 16 C10-C25	5.796	(2.206-9.386)		135213626	68.4	M
45 Hexadecane	5.845	5.842	0.003	310386	NC	M
A 14 C10-C26	5.956	(2.206-9.706)		135213626	68.4	M
A 67 C12-C22	6.001	(3.652-8.350)		70067884	35.4	M
A 32 C10-C28	6.260	(2.206-10.314)		308932721	156.2	M
A 12 Unknown Hydrocarbons	6.260	(2.206-10.314)		308932721	NC	M
A 5 Diesel	6.260	(2.206-10.314)		308932721	156.2	M
A 30 C13-C22	6.307	(4.264-8.350)		67854144	34.3	M
44 Heptadecane	6.358	6.313	0.045	1427314	NC	M
A 31 C12-C24	6.353	(3.652-9.054)		118761639	60.1	M
49 n-Octadecane	6.763	6.758	0.005	1019026	NC	M
A 52 Mineral oil	6.875	(1.354-12.396)		1759044353	764.3	M
A 11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		1759044353	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		1759044353	NC	M
33 C19	7.181	7.181	0.000	2253951	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		301417456	152.4	M
A 17 C10-C36	7.301	(2.206-12.396)		1756870982	888.4	M
A 13 C9-C40	7.363	(1.354-13.372)		4448823210	2509.8	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		4448823210	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		109367151	55.3	M
62 icosane	7.589	7.588	0.001	3241527	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		4446649839	2511.4	M
$ 34 p-Terphenyl		8.049			ND	U
35 n-Docosane	8.358	8.350	0.008	3508956	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		4441348314	2517.6	M
36 Tricosane	8.717	8.709	0.008	23080758	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		4439134574	2518.6	M
37 n-Tetracosane	9.071	9.054	0.017	11150462	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		1742174969	1286.7	M
38 C25		9.386			ND	
A 19 C16-C40	9.607	(5.842-13.372)		4431953826	2519.6	M
46 n-Hexacosane		9.706			ND	
A 20 C19-C36	9.789	(7.181-12.396)		1115895806	693.1	
A 55 C23-C32	10.063	(8.709-11.418)		909574790	1025.4	M
39 n-Octacosane	10.382	10.314	0.068	130619355	NC	M
65 C29	10.637	10.604	0.033	128366971	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		1273912704	1101.2	
A 40 C24-C36	10.725	(9.054-12.396)		1648819203	1425.3	M
A 10 C22-C40	10.861	(8.350-13.372)		1978180084	1221.9	
A 50 C25-C36	10.891	(9.386-12.396)		1231806927	1137.9	
A 41 C23-C40	11.040	(8.709-13.372)		2004331689	1262.1	
A 8 C24-C40	11.213	(9.054-13.372)		2081867658	1339.5	
56 Dotriacontane	11.433	11.418	0.015	53982470	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		1958846605	1574.7	
A 63 C29-C40	11.988	(10.604-13.372)		1862344045	1630.8	
42 n-Hexatriacontane	12.333	12.396	-0.063	550541202	NC	M
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

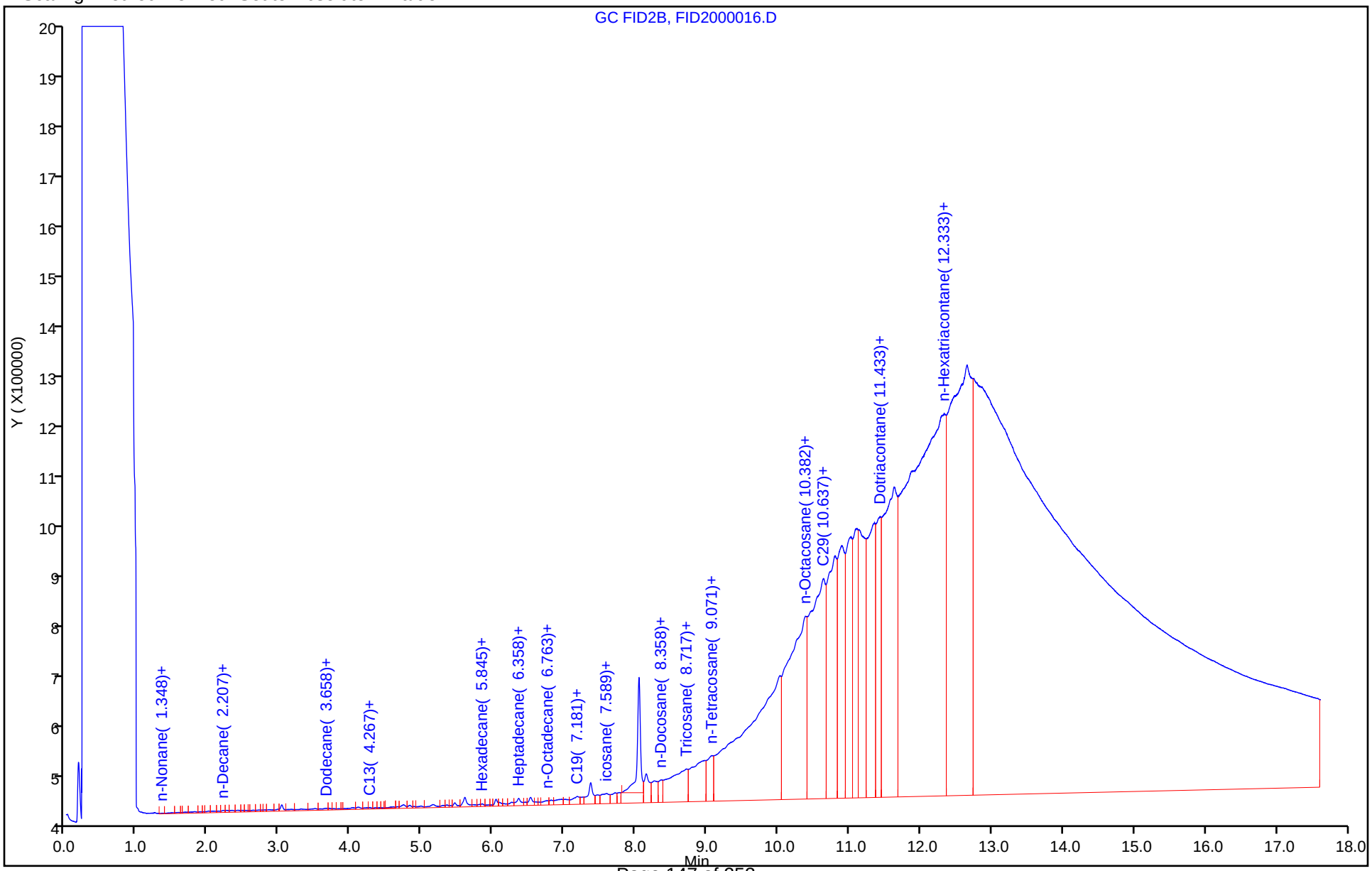
Report Date: 11-Jan-2019 12:18:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000016.D

Injection Date:	10-Jan-2019 21:13:13	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-20-G	Lab Sample ID:	720-90640-20	Worklist Smp#:	16
Client ID:	DG-P5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	66
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

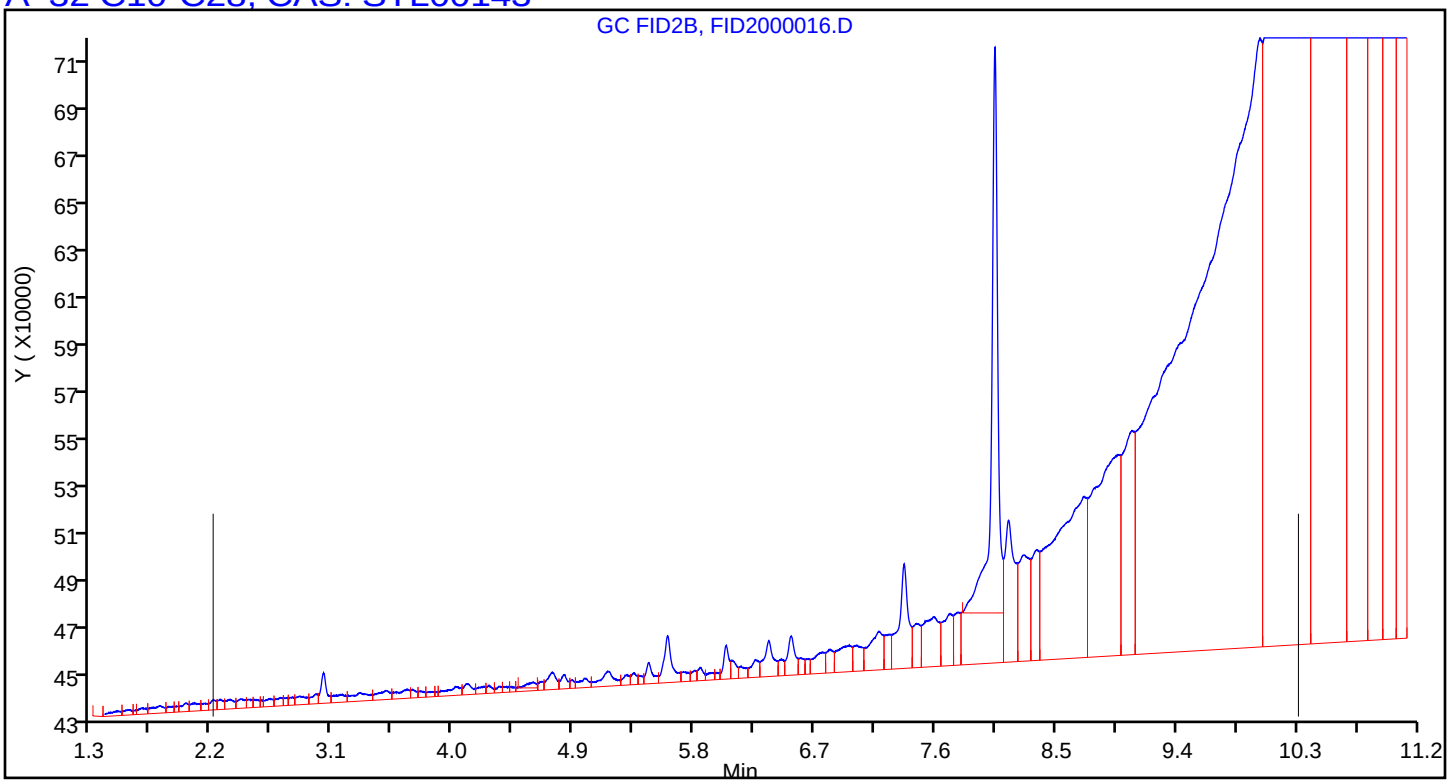


Report Date: 11-Jan-2019 12:18:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000016.D				
Injection Date:	10-Jan-2019 21:13:13	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-20-G	Lab Sample ID:	720-90640-20		
Client ID:	DG-P5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	66	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143



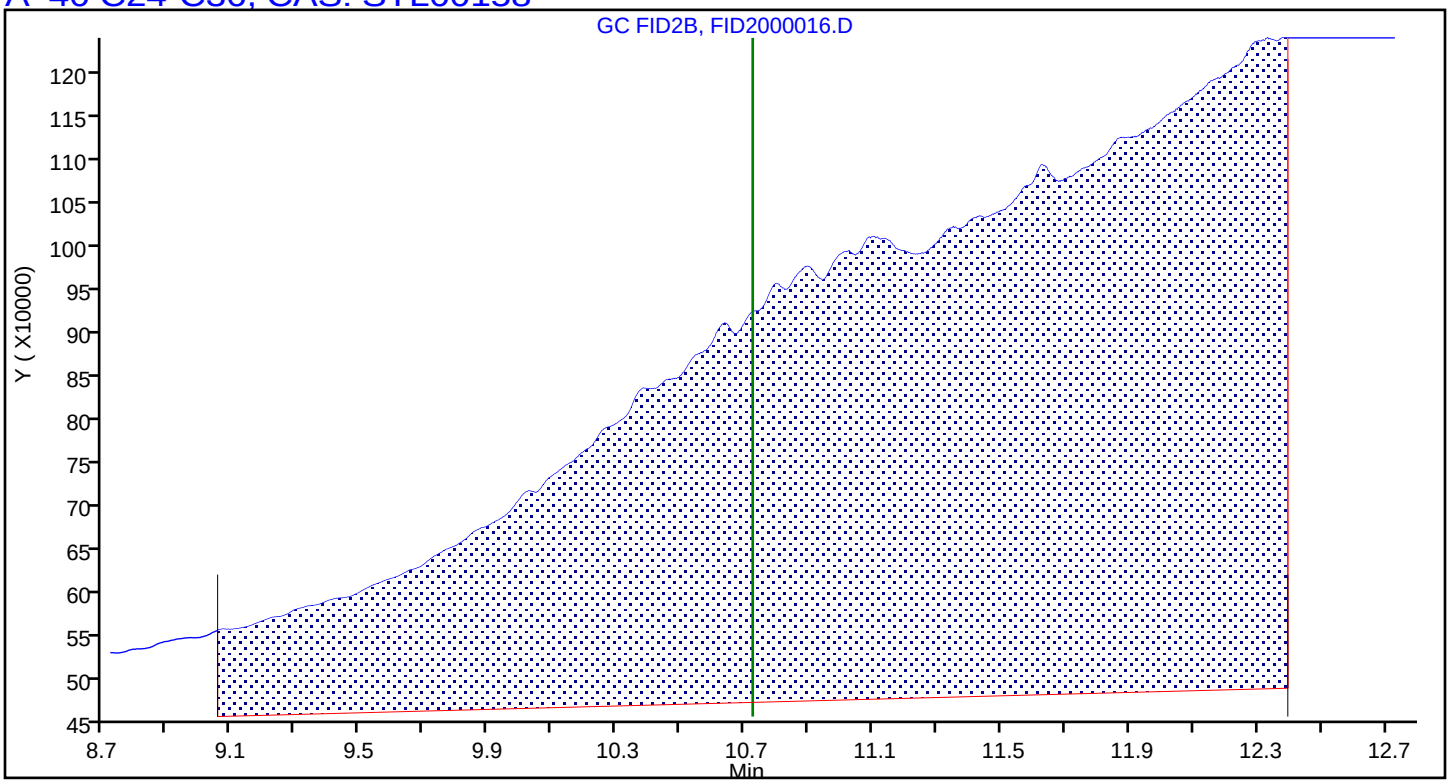
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000016.D

Injection Date:	10-Jan-2019 21:13:13	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-20-G	Lab Sample ID:	720-90640-20		
Client ID:	DG-P5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	66	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

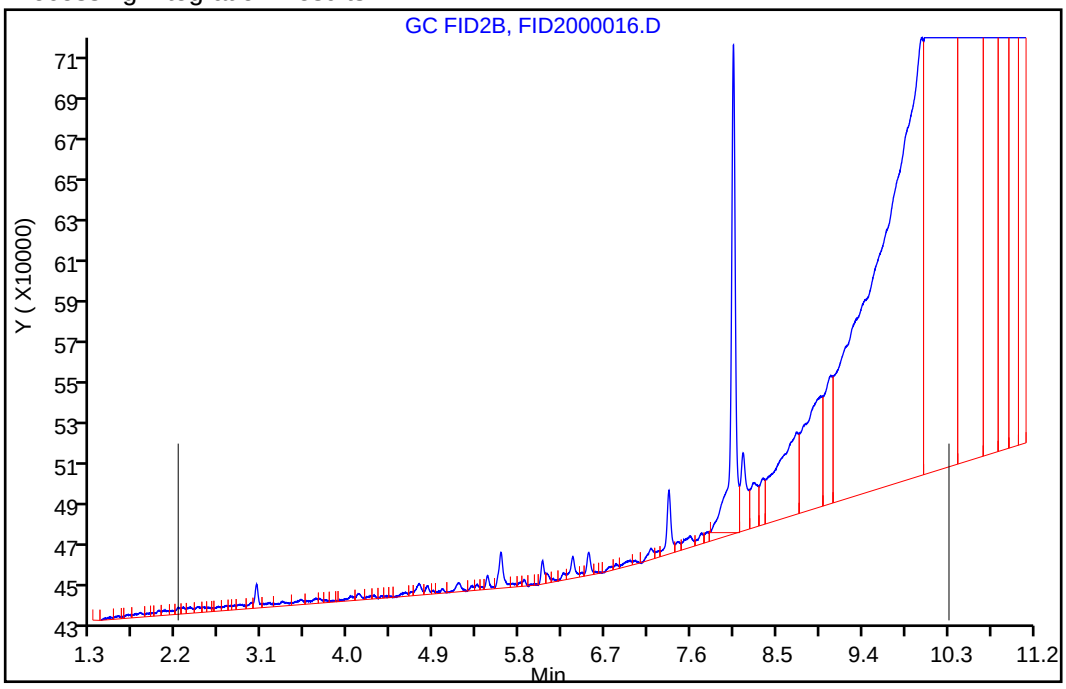
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Lims ID:	720-90640-E-20-G	Lab Sample ID:	720-90640-20		
Client ID:	DG-P5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	66	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

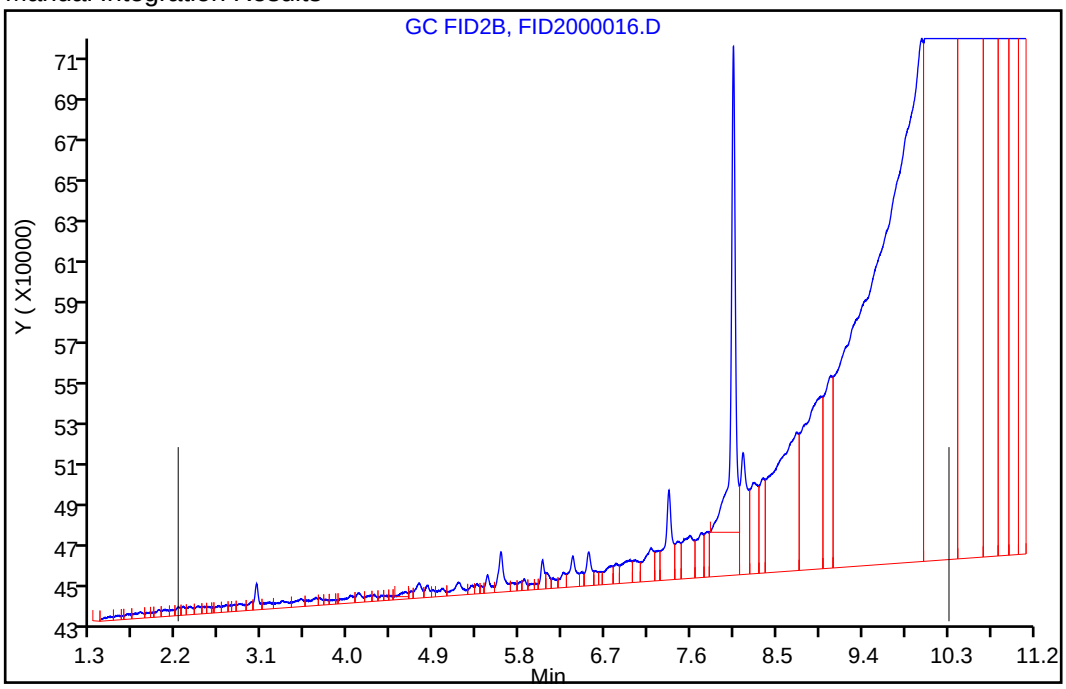
Processing Integration Results

RT: 6.26
Response: 189406258
Amount: 95.781653



Manual Integration Results

RT: 6.26
Response: 308932721
Amount: 156.2255



Reviewer: luj, 11-Jan-2019 12:17:39

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

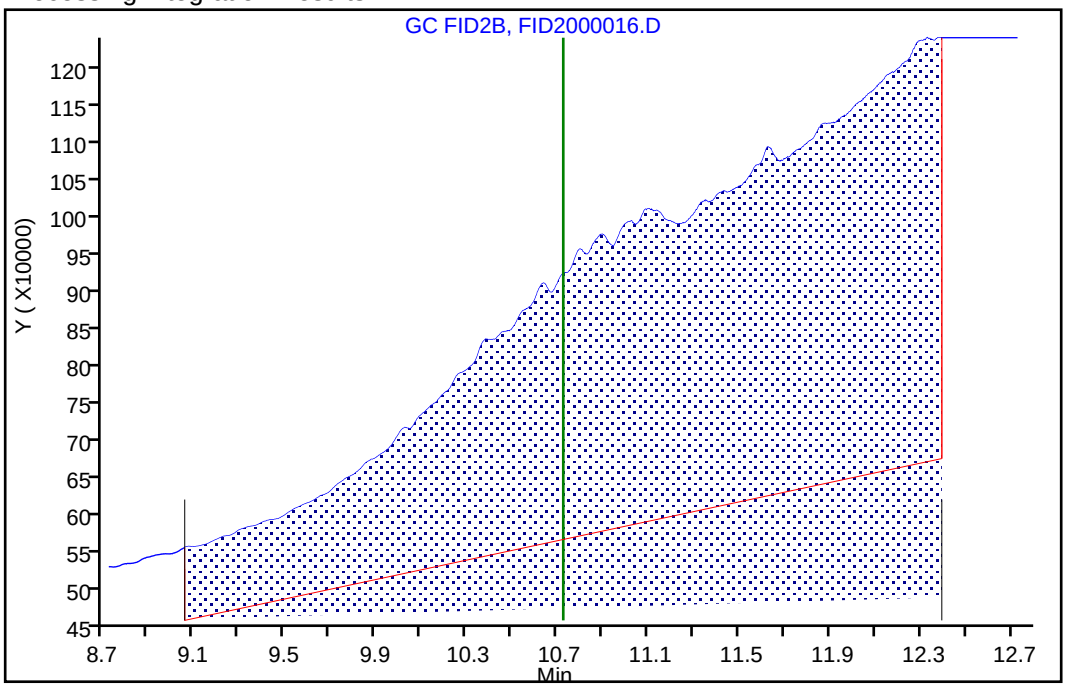
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Injection Date:	10-Jan-2019 21:13:13	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-20-G	Lab Sample ID:	720-90640-20		
Client ID:	DG-P5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	66	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.725, CAS: STL00158

Signal: 1

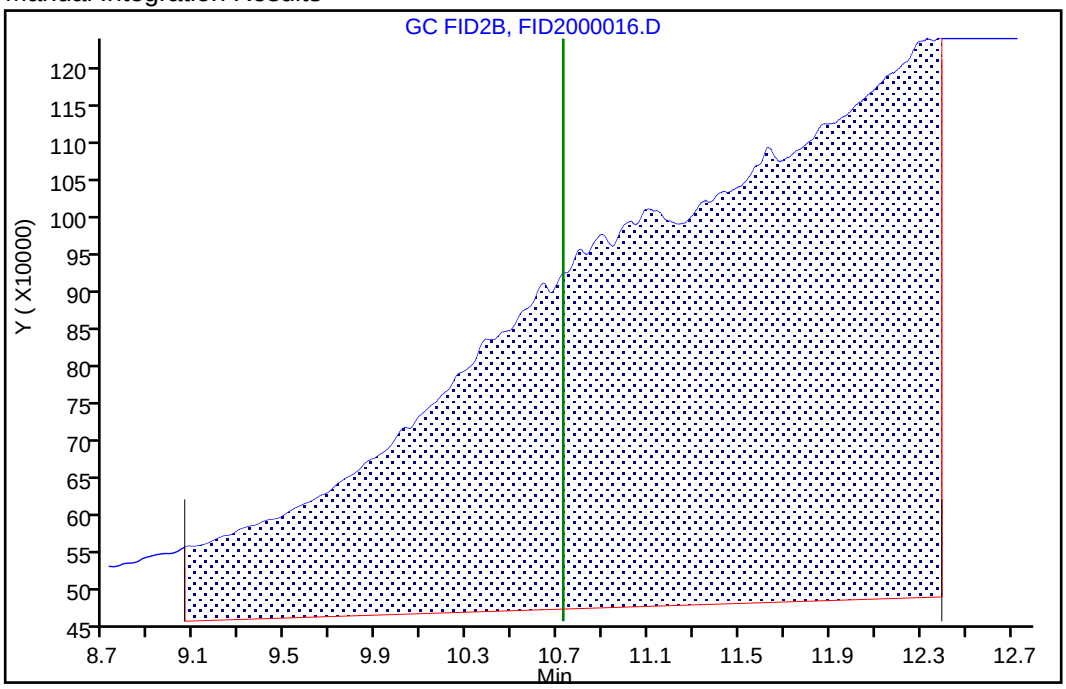
Processing Integration Results

RT: 10.72
Response: 1273912704
Amount: 1101.2328



Manual Integration Results

RT: 10.72
Response: 1648819203
Amount: 1425.3205



Reviewer: luj, 11-Jan-2019 12:18:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

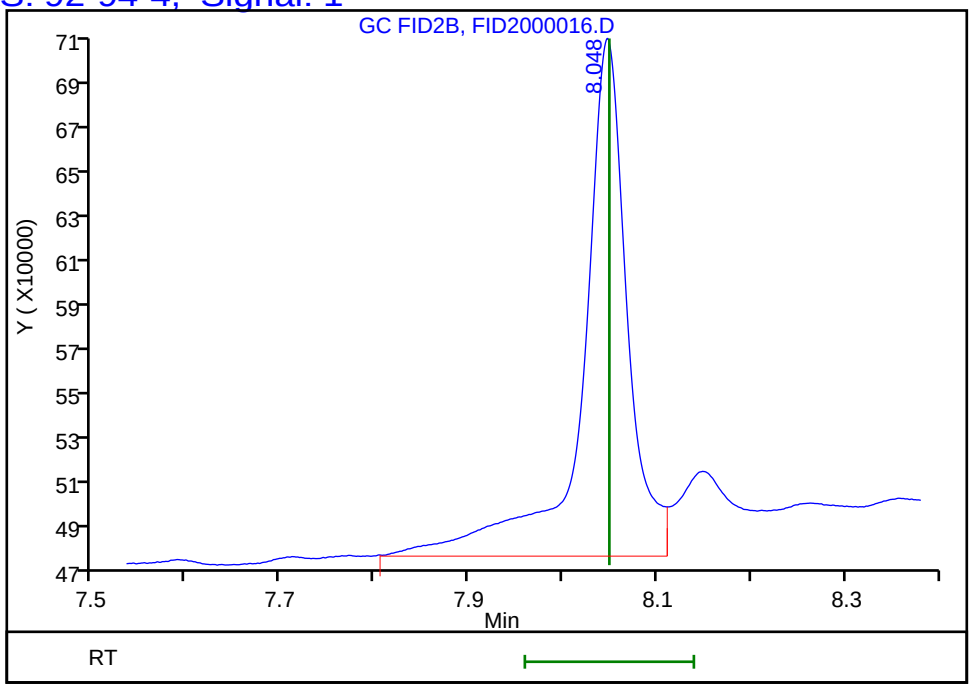
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000016.D

Injection Date:	10-Jan-2019 21:13:13	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-20-G	Lab Sample ID:	720-90640-20		
Client ID:	DG-P5S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	66	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.05
Response: 15378103
Amount: 5.957085



Reviewer: luj, 11-Jan-2019 12:18:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000013.D
Lims ID: 720-90640-E-21-C
Client ID: DG-N5S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 20:00:21 ALS Bottle#: 63 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-013
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:10:19 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:10:19

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.434	1.354	0.080	120254	NC	M
	23 n-Decane	2.208	2.206	0.002	928367	NC	M
A	21 Stoddard Solvent	2.809	(1.354-4.264)		22279554	9.36	M
A	1 C9-C13	2.809	(1.354-4.264)		22279554	NC	M
A	57 C10-C12	2.929	(2.206-3.652)		11297382	5.71	M
	24 Dodecane	3.656	3.652	0.004	794610	NC	M
A	3 C9 - C17	3.834	(1.354-6.313)		69571060	24.2	M
A	60 C10-C16	4.024	(2.206-5.842)		50055152	19.6	M
A	47 C9 - C18	4.056	(1.354-6.758)		91493713	40.3	M
	26 C13	4.263	4.264	-0.001	1543286	NC	M
A	25 C9-C19	4.268	(1.354-7.181)		118614932	41.1	M
A	15 Kerosene	4.268	(1.354-7.181)		118614932	52.2	M
$	27 n-Decanoic Acid (Surr)		4.614			ND	U
A	59 C12-C16	4.747	(3.652-5.842)		38757770	19.6	M
A	61 C10-C20	4.897	(2.206-7.588)		187466567	94.8	M
A	28 C9-C24	5.204	(1.354-9.054)		540912188	273.5	M
A	29 C9-C25	5.370	(1.354-9.386)		653195073	330.3	M
A	54 C10-C23	5.457	(2.206-8.709)		429514620	217.2	M
A	4 C10-C24	5.630	(2.206-9.054)		537805559	272.0	M
A	16 C10-C25	5.796	(2.206-9.386)		650088444	328.7	M
	45 Hexadecane	5.843	5.842	0.001	3749269	NC	M
A	14 C10-C26	5.956	(2.206-9.706)		744893390	376.7	M
A	67 C12-C22	6.001	(3.652-8.350)		336612814	170.2	M
A	32 C10-C28	6.260	(2.206-10.314)		1018666627	515.1	M
A	12 Unknown Hydrocarbons	6.260	(2.206-10.314)		1018666627	NC	M
A	5 Diesel	6.260	(2.206-10.314)		1018666627	515.1	M
A	30 C13-C22	6.307	(4.264-8.350)		330280557	167.0	M
	44 Heptadecane	6.356	6.313	0.043	10135417	NC	M
A	31 C12-C24	6.353	(3.652-9.054)		526508177	266.3	M
	49 n-Octadecane	6.758	6.758	0.000	8406153	NC	M
A	52 Mineral oil	6.875	(1.354-12.396)		2165407289	940.9	M
A	11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		2165407289	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		2165407289	NC	M
33 C19	7.185	7.181	0.004	22288332	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		1001036988	506.2	M
A 17 C10-C36	7.301	(2.206-12.396)		2162300660	1093.5	M
A 13 C9-C40	7.363	(1.354-13.372)		2790527198	1574.3	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		2790527198	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		487750407	246.7	M
62 icosane	7.591	7.588	0.003	12645591	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		2787420569	1574.3	M
$ 34 p-Terphenyl	8.045	8.049	-0.004	52203648	20.2	M
35 n-Docosane	8.353	8.350	0.003	20252149	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		2776123187	1573.6	M
36 Tricosane	8.713	8.709	0.004	39131838	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		2769790930	1571.5	M
37 n-Tetracosane	9.060	9.054	0.006	47583794	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		2112245508	1560.0	M
38 C25	9.394	9.386	0.008	35392877	NC	M
A 19 C16-C40	9.607	(5.842-13.372)		2737365417	1556.2	M
46 n-Hexacosane	9.752	9.706	0.046	61196192	NC	M
A 20 C19-C36	9.789	(7.181-12.396)		1594699880	990.5	
A 55 C23-C32	10.063	(8.709-11.418)		1221341333	1376.8	M
39 n-Octacosane	10.371	10.314	0.057	68233101	NC	M
65 C29	10.606	10.604	0.002	83219317	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		1392056036	1203.4	
A 40 C24-C36	10.725	(9.054-12.396)		1622628971	1402.7	M
A 10 C22-C40	10.861	(8.350-13.372)		1824952860	1127.3	
A 50 C25-C36	10.891	(9.386-12.396)		1215293686	1122.7	
A 41 C23-C40	11.040	(8.709-13.372)		1770383538	1114.8	
A 8 C24-C40	11.213	(9.054-13.372)		1812679479	1166.3	
56 Dotriacontane	11.409	11.418	-0.009	53844129	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		1431342105	1150.7	
A 63 C29-C40	11.988	(10.604-13.372)		1308456067	1145.8	
42 n-Hexatriacontane	12.472	12.396	0.076	79110556	NC	M
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

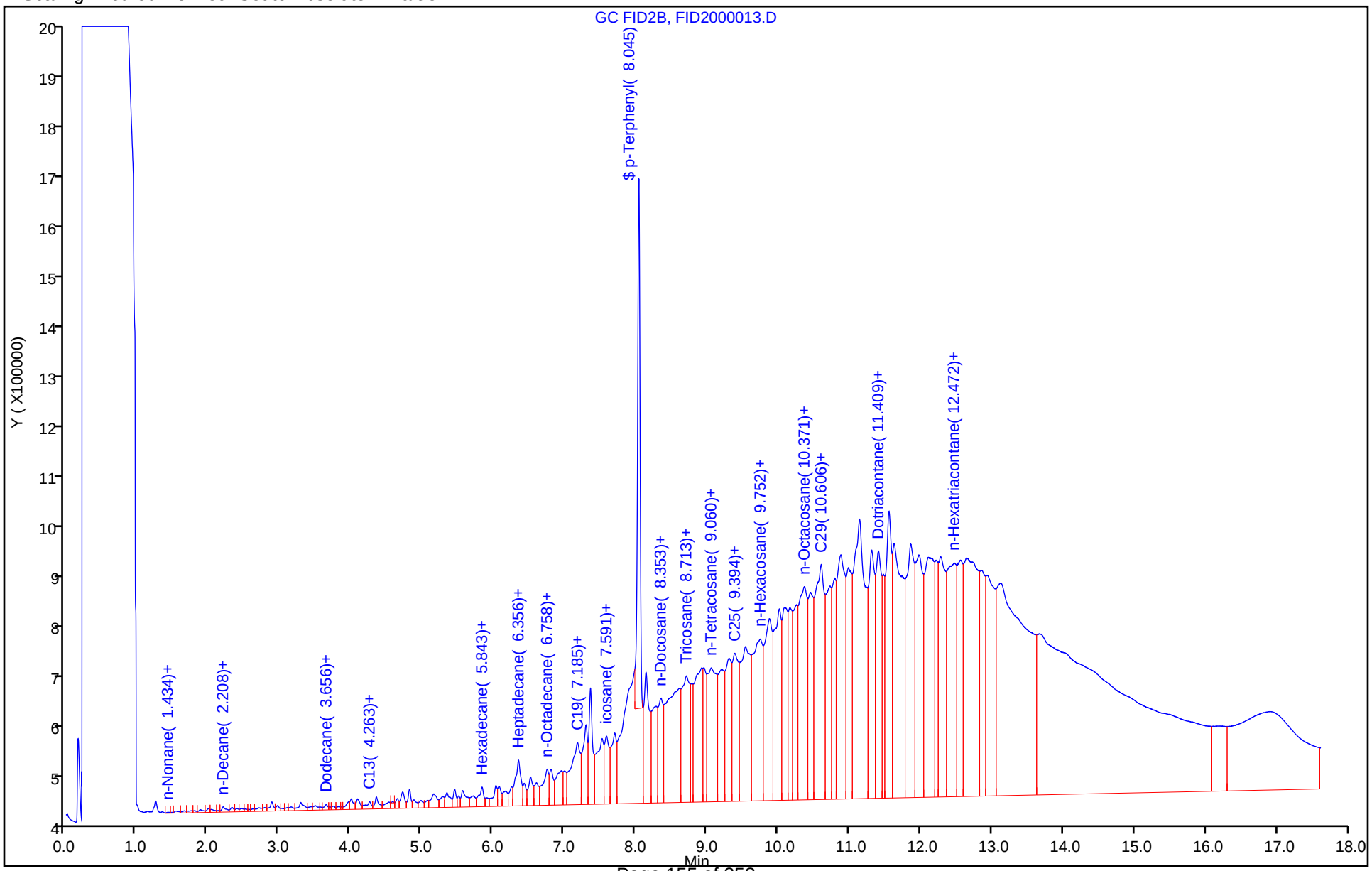
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000013.D

Injection Date:	10-Jan-2019 20:00:21	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-21-C	Lab Sample ID:	720-90640-21	Worklist Smp#:	13
Client ID:	DG-N5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	63
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000013.D				
Lims ID:	720-90640-E-21-C				
Client ID:	DG-N5S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 20:00:21	ALS Bottle#:	63	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	720-0056021-013				
Operator ID:	RLU	Instrument ID:	CHDRO6		
Method:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 12:10:19	Calib Date:	10-Jan-2019 10:31:54		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 12:10:19

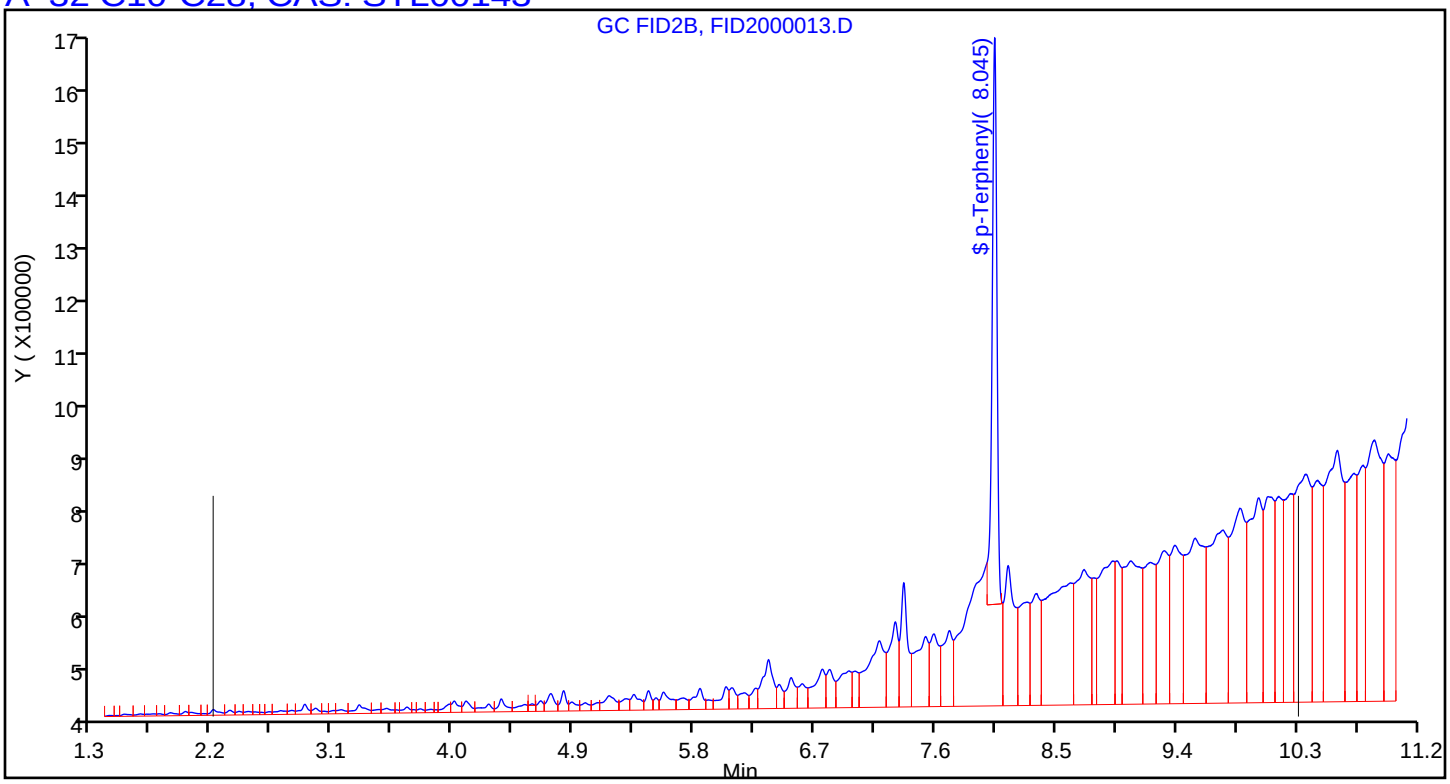
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.2	80.89

Report Date: 11-Jan-2019 12:10:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000013.D				
Injection Date:	10-Jan-2019 20:00:21	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-21-C	Lab Sample ID:	720-90640-21		
Client ID:	DG-N5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	63	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

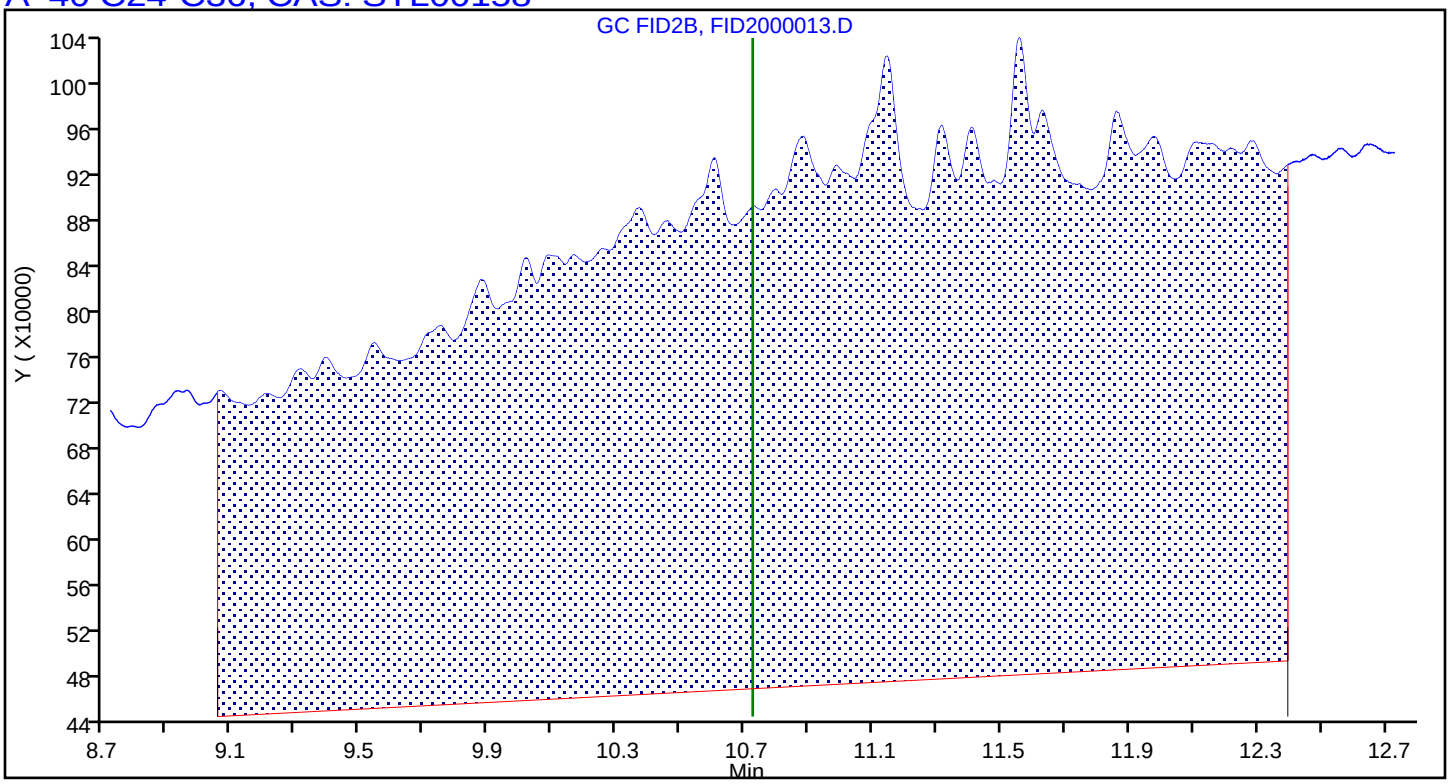


Report Date: 11-Jan-2019 12:10:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000013.D				
Injection Date:	10-Jan-2019 20:00:21	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-21-C	Lab Sample ID:	720-90640-21		
Client ID:	DG-N5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	63	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

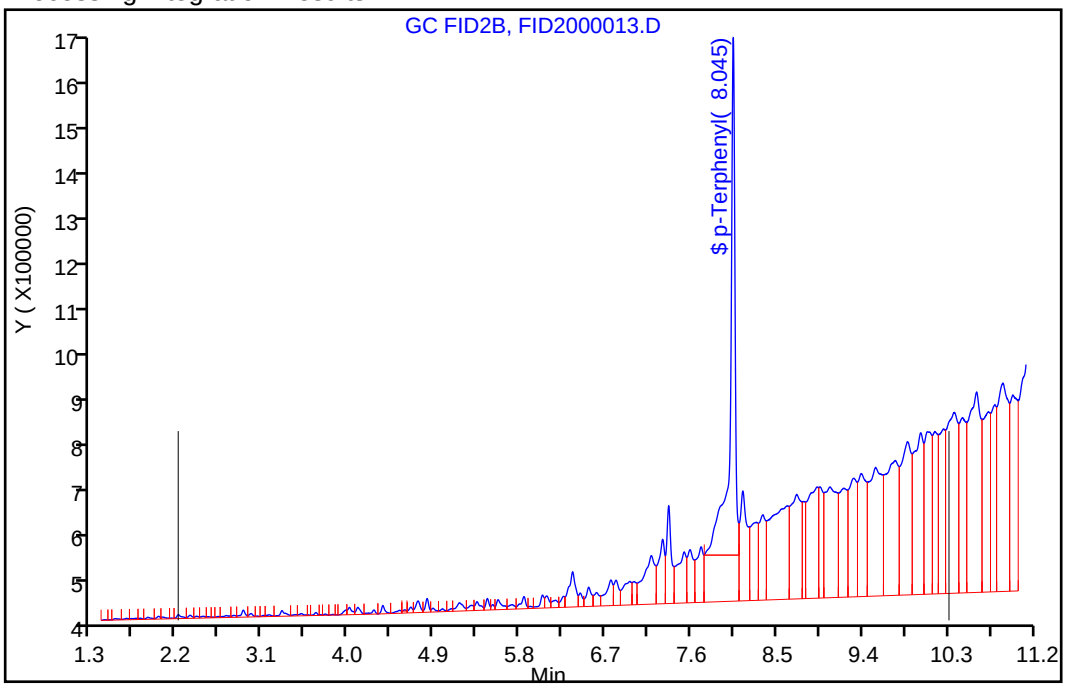
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Injection Date:	10-Jan-2019 20:00:21	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-21-C	Lab Sample ID:	720-90640-21		
Client ID:	DG-N5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	63	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

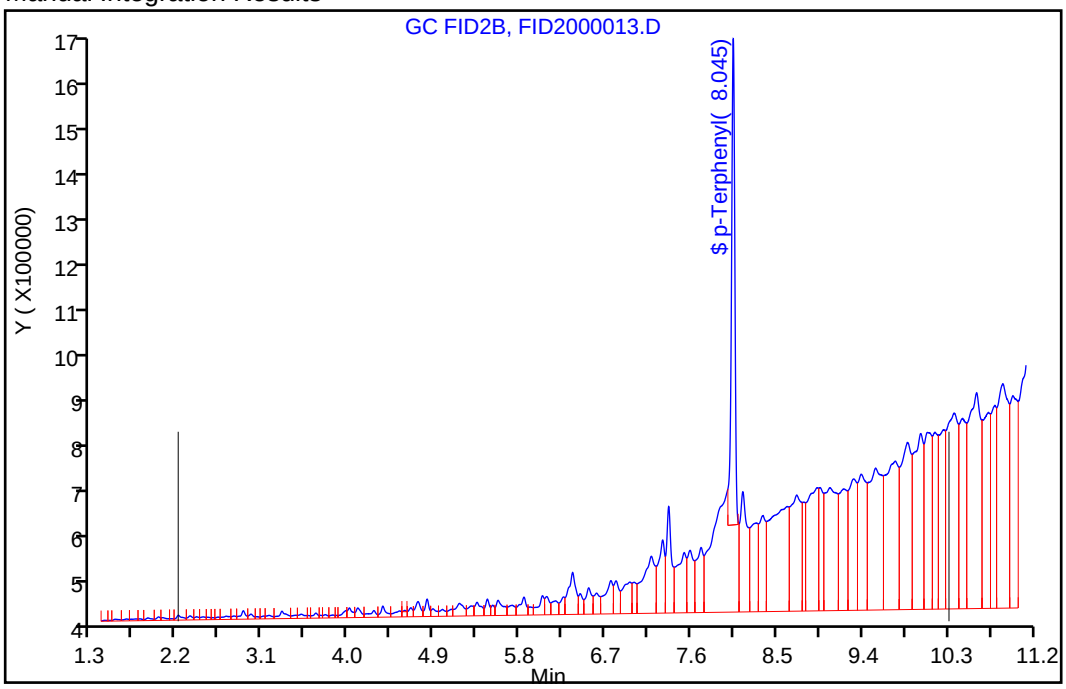
Processing Integration Results

RT: 6.26
Response: 837028737
Amount: 423.2806



Manual Integration Results

RT: 6.26
Response: 1018666627
Amount: 515.1338



Reviewer: luj, 11-Jan-2019 12:09:36

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

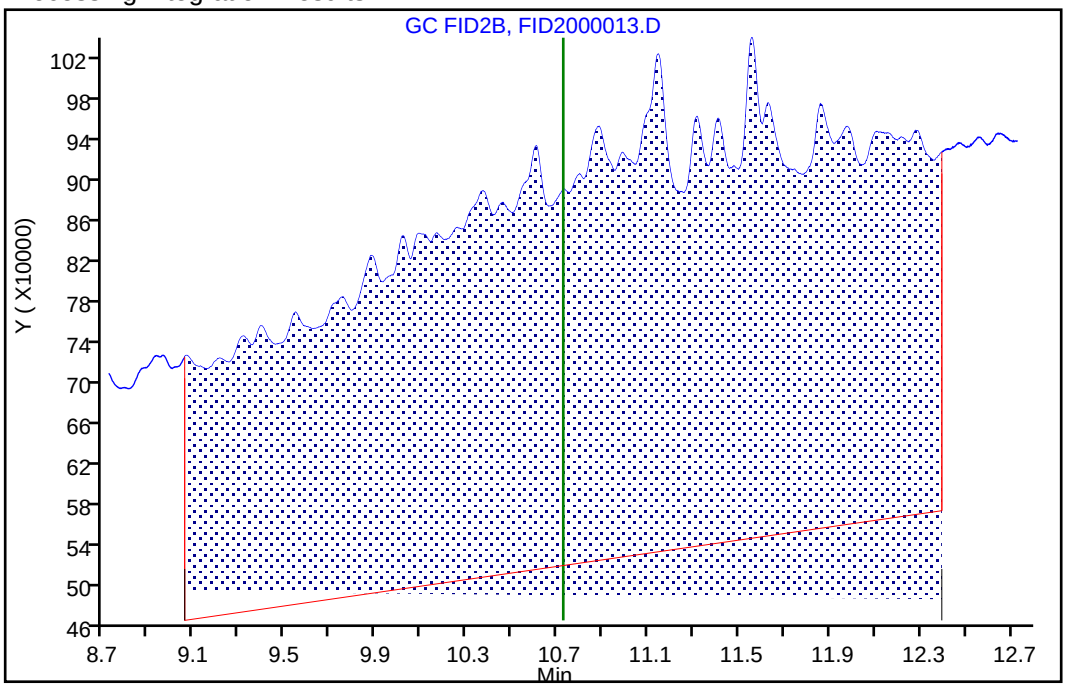
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Injection Date:	10-Jan-2019 20:00:21	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-21-C	Lab Sample ID:	720-90640-21		
Client ID:	DG-N5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	63	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.725, CAS: STL00158

Signal: 1

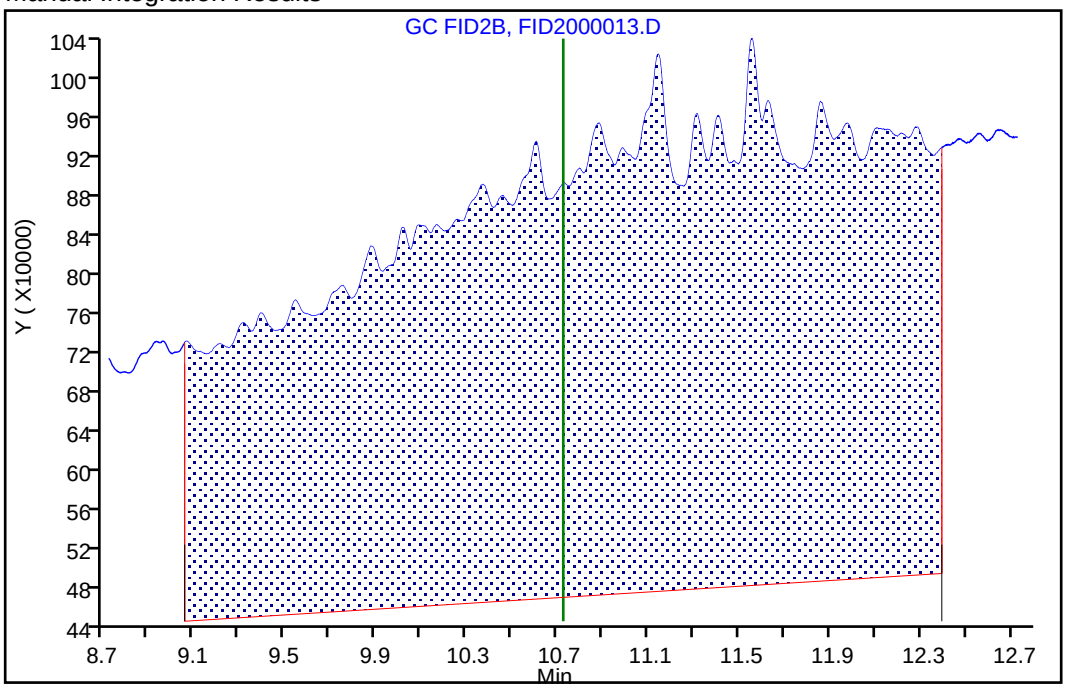
Processing Integration Results

RT: 10.72
Response: 1392056036
Amount: 1203.3617



Manual Integration Results

RT: 10.72
Response: 1622628971
Amount: 1402.6803



Reviewer: luj, 11-Jan-2019 12:10:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

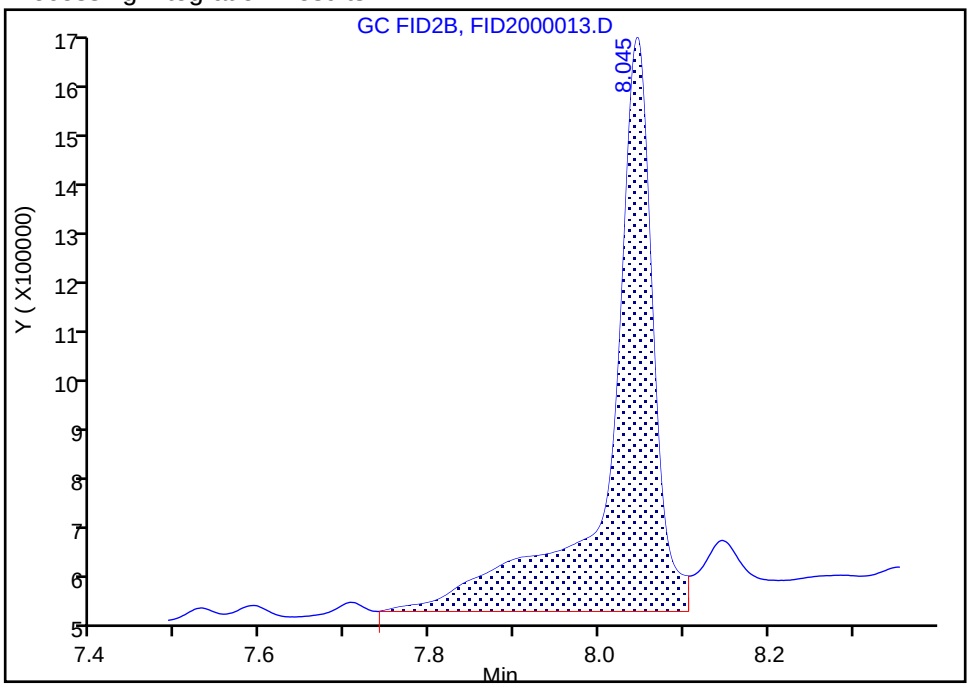
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000013.D				
Injection Date:	10-Jan-2019 20:00:21	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-21-C	Lab Sample ID:	720-90640-21		
Client ID:	DG-N5S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	63	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

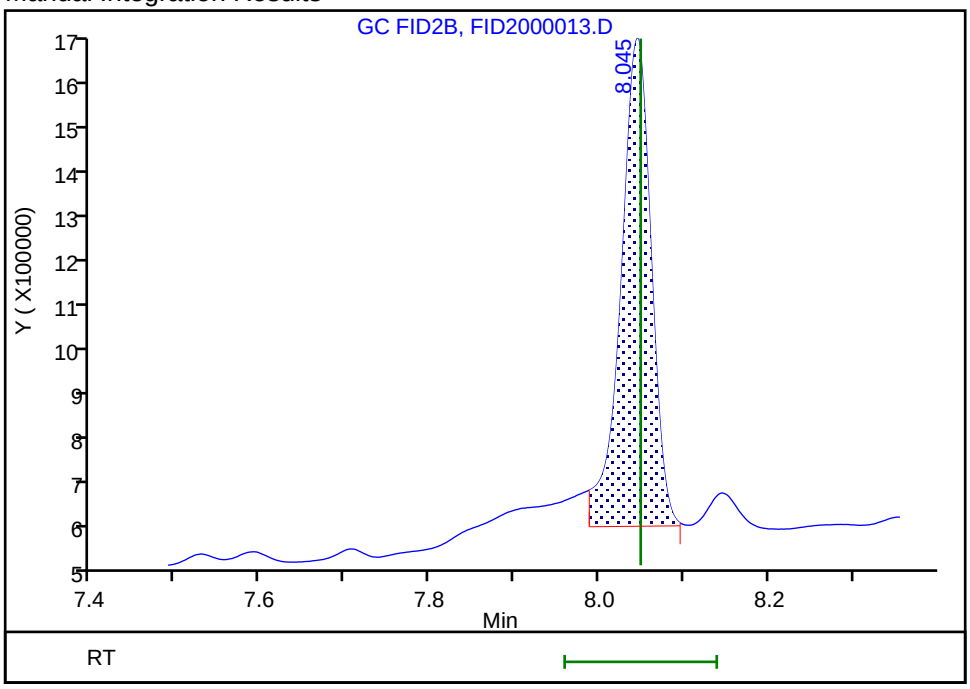
Processing Integration Results

RT: 8.05
Area: 82030084
Amount: 31.776363
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 52203648
Amount: 20.222362
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 12:09:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_007.d
Lims ID: 720-90640-E-22-C
Client ID: DG-N5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 18:32:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056023-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:06:30 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:06:30

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.495	2.554	-0.060	1069	NC	
23 n-Decane	3.825	3.799	0.026	1364	NC	
A 1 C9-C13	4.538	(2.554-6.521)		29866	NC	
A 21 Stoddard Solvent	4.538	(2.554-6.521)		29866	NC	
A 57 C10-C12	4.758	(3.799-5.716)		18164	1.85	
24 Dodecane	5.699	5.716	-0.017	3879	NC	
A 3 C9 - C17	5.902	(2.554-9.250)		150777	12.4	
A 47 C9 - C18	6.199	(2.554-9.843)		227625	21.1	
A 60 C10-C16	6.206	(3.799-8.612)		102869	9.33	
A 15 Kerosene	6.468	(2.554-10.381)		272863	25.3	
A 25 C9-C19	6.468	(2.554-10.381)		272863	22.4	
26 C13	6.513	6.521	-0.008	6092	NC	
$ 27 n-Decanoic Acid (Surr)		7.163			ND	U
A 59 C12-C16	7.164	(5.716-8.612)		88584	9.04	
A 62 C10-C20	7.358	(3.799-10.917)		519190	53.0	
A 28 C9-C24	7.701	(2.554-12.848)		1251785	127.7	
A 29 C9-C25	7.919	(2.554-13.284)		1572429	160.4	
A 54 C10-C23	8.097	(3.799-12.394)		1045217	106.6	
A 4 C10-C24	8.323	(3.799-12.848)		1246782	127.2	
A 16 C10-C25	8.542	(3.799-13.284)		1567426	159.9	
45 Hexadecane	8.615	8.612	0.003	13580	NC	
A 14 C10-C26	8.752	(3.799-13.705)		2114180	215.7	
A 67 C12-C22	8.819	(5.716-11.922)		1030932	105.2	
A 12 Unknown Hydrocarbons	9.151	(3.799-14.504)		2818759	NC	
A 32 C10-C28	9.151	(3.799-14.504)		2818759	287.6	
A 5 Diesel	9.151	(3.799-14.504)		2818759	287.6	
A 30 C13-C22	9.222	(6.521-11.922)		1026446	104.7	
44 Heptadecane	9.255	9.250	0.005	29026	NC	
A 31 C12-C24	9.282	(5.716-12.848)		1232497	125.8	
49 n-Octadecane	9.860	9.843	0.017	21188	NC	
A 9 Crude Oil Range Organics (	9.894	(2.554-17.234)		5334395	NC	
A 52 Mineral oil	9.894	(2.554-17.234)		5334395	476.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		5886042	NC	
33 C19		10.381			ND	
A 64 C13-C28	10.512	(6.521-14.504)		2799988	285.7	
A 17 C10-C36	10.517	(3.799-17.234)		5881039	600.0	
A 13 C9-C40	10.672	(2.554-18.790)		5972861	717.8	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		5972861	NC	
A 58 C16-C24	10.730	(8.612-12.848)		1143913	116.7	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		5966206	717.3	
$ 34 p-Terphenyl	11.903	11.908	-0.005	311485	26.1	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		5936056	714.0	
36 Tricosane	12.397	12.394	0.003	201565	NC	
A 66 C13-C40	12.655	(6.521-18.790)		5919621	712.0	
37 n-Tetracosane	12.850	12.848	0.002	320644	NC	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		5152947	679.0	
38 C25	13.288	13.284	0.004	253804	NC	
A 19 C16-C40	13.701	(8.612-18.790)		5791413	696.3	
46 n-Hexacosane	13.700	13.705	-0.005	292950	NC	
A 20 C19-C36	13.807	(10.381-17.234)		4583258	531.2	
A 55 C23-C32	14.172	(12.394-15.951)		2964817	623.5	
39 n-Octacosane	14.448	14.504	-0.056	402784	NC	
65 C29	14.886	14.883	0.003	408295	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		3455399	567.2	
A 40 C24-C36	15.041	(12.848-17.234)		3455399	567.2	
A 50 C25-C36	15.259	(13.284-17.234)		3175125	548.8	
A 10 C22-C40	15.356	(11.922-18.790)		4262493	509.9	
A 41 C23-C40	15.592	(12.394-18.790)		4284643	522.4	
A 8 C24-C40	15.819	(12.848-18.790)		4021247	505.5	
56 Dotriacontane	15.972	15.951	0.021	240075	NC	
A 51 C28-C40	16.647	(14.504-18.790)		2805291	437.7	
A 63 C29-C40	16.836	(14.883-18.790)		2450714	418.2	
42 n-Hexatriacontane		17.234			ND	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated

Review Flags
- M - Manually Integrated
- U - Marked Undetected

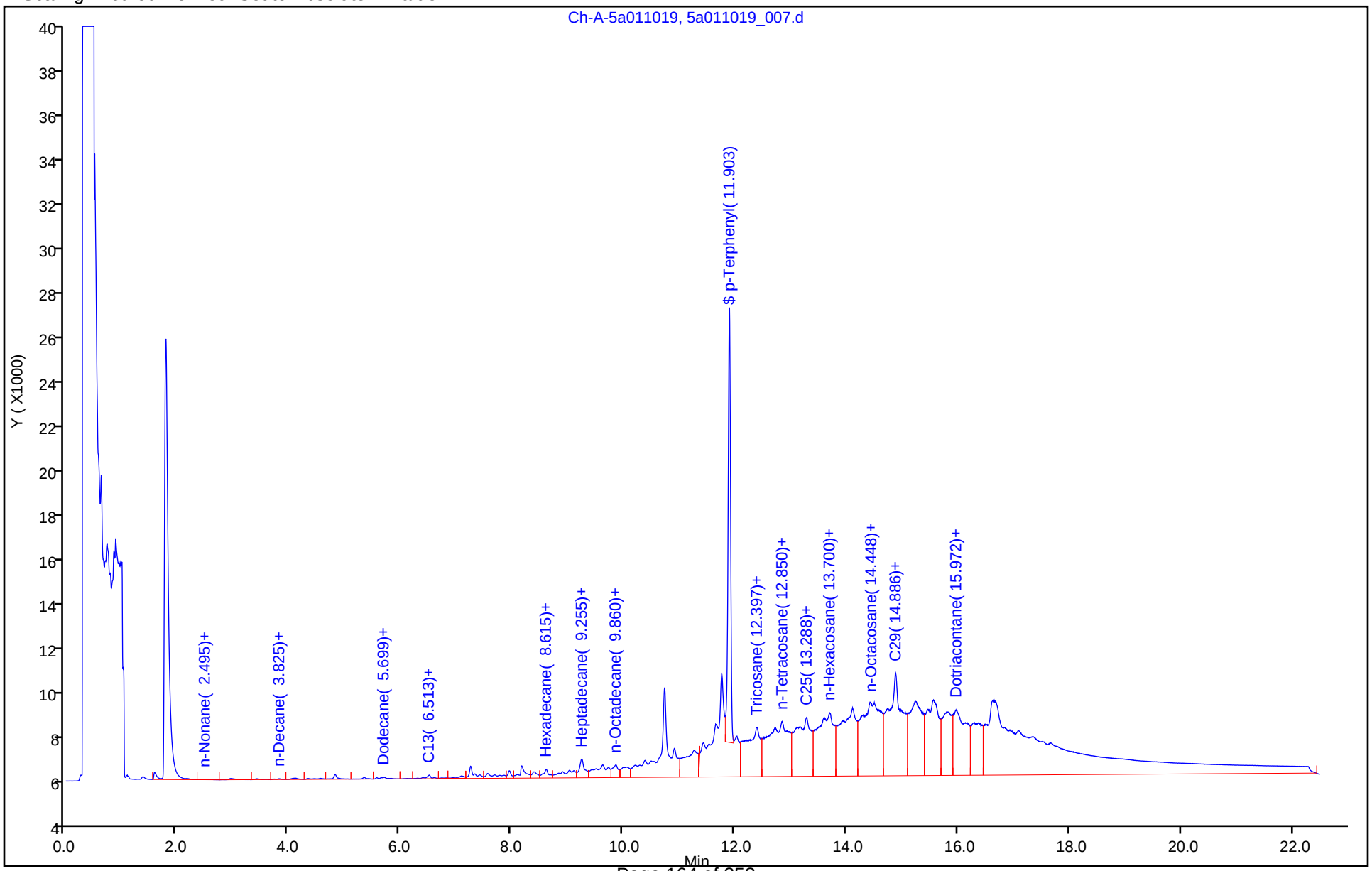
Report Date: 11-Jan-2019 13:06:32 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_007.d

Injection Date:	10-Jan-2019 18:32:29	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-22-C	Lab Sample ID:	720-90640-22	Worklist Smp#:	7
Client ID:	DG-N5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_007.d
Lims ID: 720-90640-E-22-C
Client ID: DG-N5S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 18:32:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056023-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:06:30 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:06:30

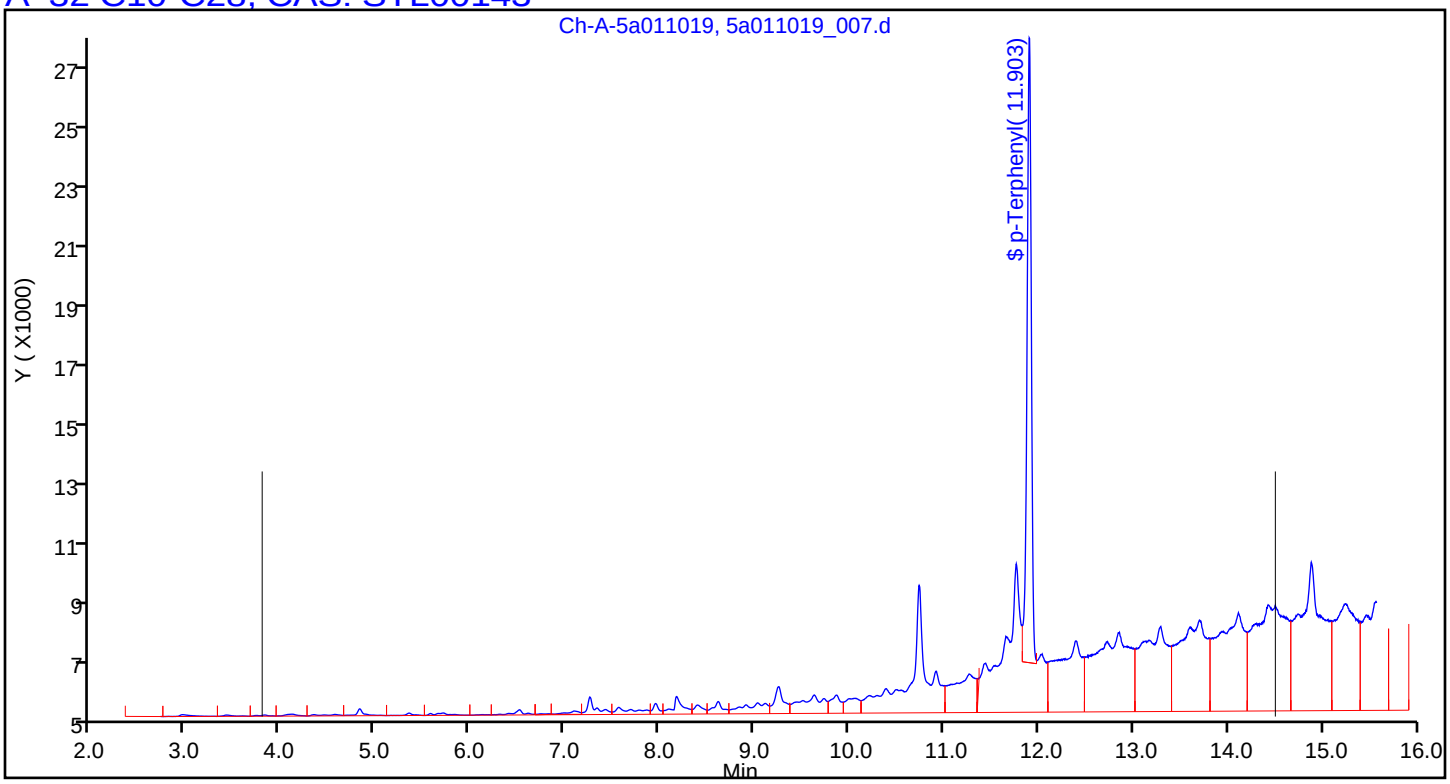
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.1	104.48

Report Date: 11-Jan-2019 13:06:32 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_007.d				
Injection Date:	10-Jan-2019 18:32:29	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-22-C	Lab Sample ID:	720-90640-22		
Client ID:	DG-N5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

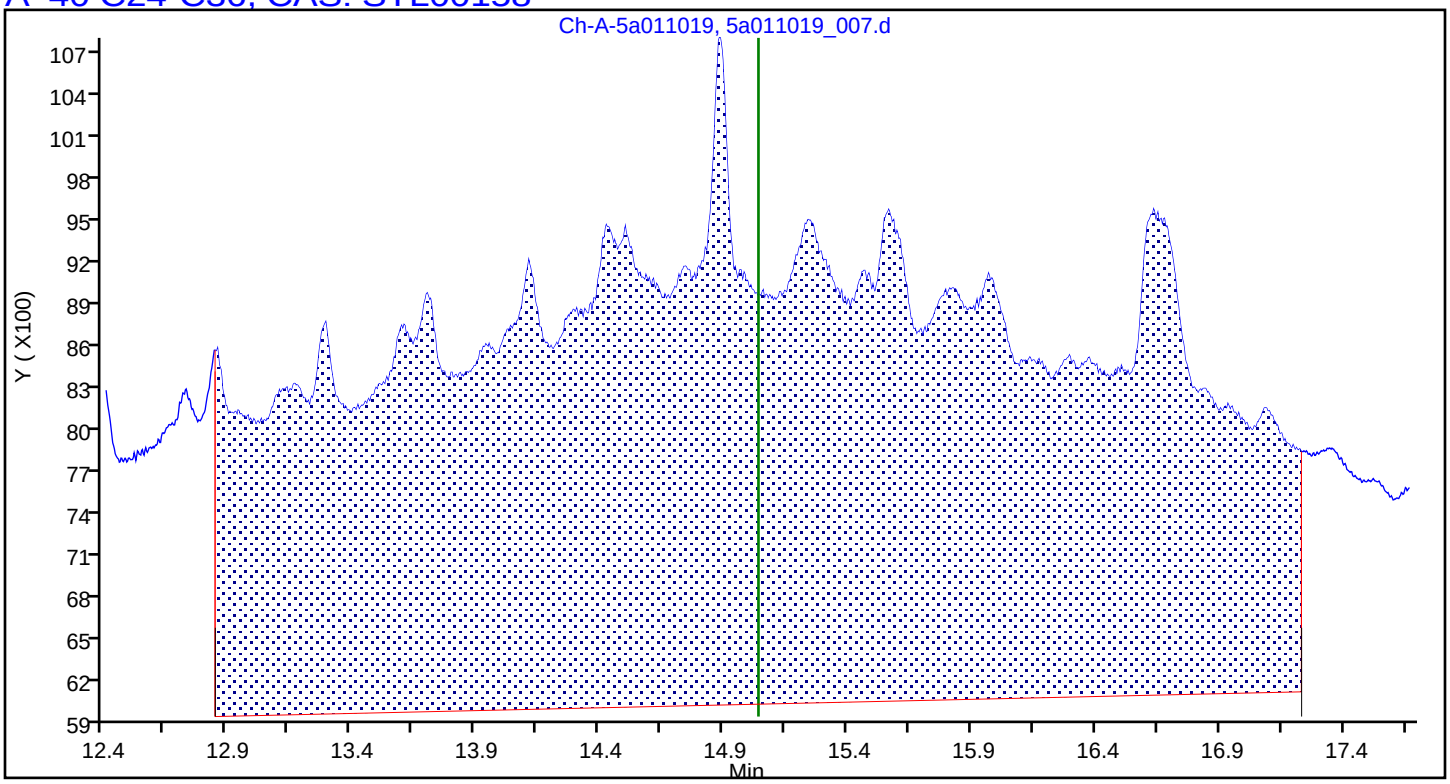


Report Date: 11-Jan-2019 13:06:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_007.d				
Injection Date:	10-Jan-2019 18:32:29	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-22-C	Lab Sample ID:	720-90640-22		
Client ID:	DG-N5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

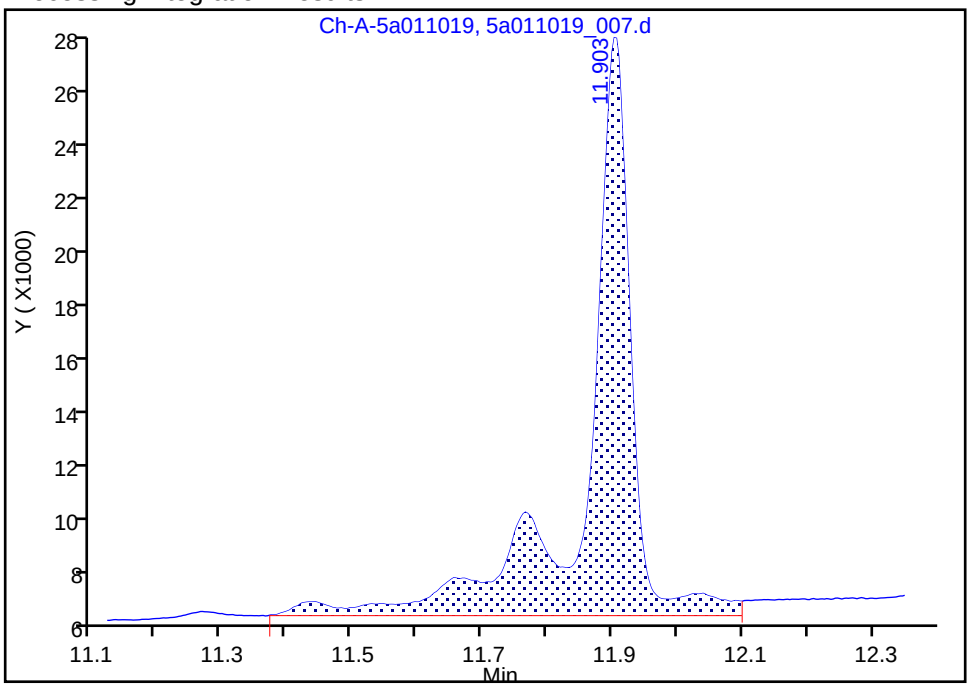
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_007.d				
Injection Date:	10-Jan-2019 18:32:29	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-22-C	Lab Sample ID:	720-90640-22		
Client ID:	DG-N5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

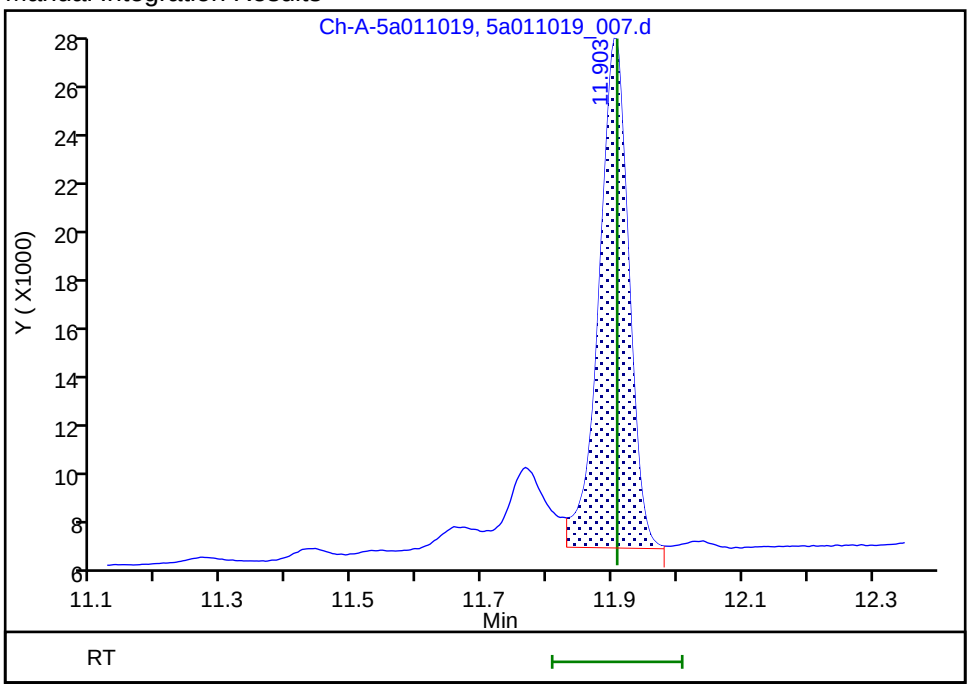
Processing Integration Results

RT: 11.90
Area: 495571
Amount: 41.557618
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 311485
Amount: 26.120525
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:06:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_011.d
Lims ID: 720-90640-E-23-C
Client ID: DUP-125
Sample Type: Client
Inject. Date: 10-Jan-2019 20:29:17 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 041 Name: 720-0056023-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:16:03 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:16:03

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.497	2.554	-0.057	616	NC	
	23 n-Decane	3.828	3.799	0.029	1658	NC	
A	1 C9-C13	4.538	(2.554-6.521)		33447	NC	
A	21 Stoddard Solvent	4.538	(2.554-6.521)		33447	NC	
A	57 C10-C12	4.758	(3.799-5.716)		19733	2.01	
	24 Dodecane	5.711	5.716	-0.005	5238	NC	
A	3 C9 - C17	5.902	(2.554-9.250)		105443	8.70	
A	47 C9 - C18	6.199	(2.554-9.843)		199274	18.5	
A	60 C10-C16	6.206	(3.799-8.612)		88301	8.01	
A	15 Kerosene	6.468	(2.554-10.381)		199274	18.5	
A	25 C9-C19	6.468	(2.554-10.381)		199274	16.3	
	26 C13	6.504	6.521	-0.017	8556	NC	
$	27 n-Decanoic Acid (Surr)		7.163			ND	U
A	59 C12-C16	7.164	(5.716-8.612)		73806	7.53	
A	62 C10-C20	7.358	(3.799-10.917)		549673	56.1	
A	28 C9-C24	7.701	(2.554-12.848)		1188499	121.3	
A	29 C9-C25	7.919	(2.554-13.284)		1411106	144.0	
A	54 C10-C23	8.097	(3.799-12.394)		1009811	103.0	
A	4 C10-C24	8.323	(3.799-12.848)		1183341	120.7	
A	16 C10-C25	8.542	(3.799-13.284)		1405948	143.4	
	45 Hexadecane	8.604	8.612	-0.008	10842	NC	
A	14 C10-C26	8.752	(3.799-13.705)		1939355	197.9	
A	67 C12-C22	8.819	(5.716-11.922)		995316	101.6	
A	12 Unknown Hydrocarbons	9.151	(3.799-14.504)		2559096	NC	
A	32 C10-C28	9.151	(3.799-14.504)		2559096	261.1	
A	5 Diesel	9.151	(3.799-14.504)		2559096	261.1	
A	30 C13-C22	9.222	(6.521-11.922)		990078	101.0	
	44 Heptadecane	9.260	9.250	0.010	32792	NC	
A	31 C12-C24	9.282	(5.716-12.848)		1168846	119.3	
	49 n-Octadecane	9.832	9.843	-0.011	61039	NC	
A	9 Crude Oil Range Organics (	9.894	(2.554-17.234)		5662808	NC	
A	52 Mineral oil	9.894	(2.554-17.234)		5662808	505.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		6429386	NC	
33 C19	10.383	10.381	0.002	76848	NC	
A 64 C13-C28	10.512	(6.521-14.504)		2539363	259.1	
A 17 C10-C36	10.517	(3.799-17.234)		6424228	655.5	
A 13 C9-C40	10.672	(2.554-18.790)		6785577	821.4	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		6785577	NC	
A 58 C16-C24	10.730	(8.612-12.848)		1105882	112.8	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		6777921	820.8	
$ 34 p-Terphenyl	11.903	11.908	-0.005	346074	29.0	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		6750749	817.8	
36 Tricosane	12.407	12.394	0.013	173530	NC	
A 66 C13-C40	12.655	(6.521-18.790)		6735864	816.0	
37 n-Tetracosane	12.850	12.848	0.002	222607	NC	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		5528788	728.5	
38 C25	13.287	13.284	0.003	271845	NC	
A 19 C16-C40	13.701	(8.612-18.790)		6651557	805.9	
46 n-Hexacosane		13.705			ND	
A 20 C19-C36	13.807	(10.381-17.234)		4996409	579.0	
A 55 C23-C32	14.172	(12.394-15.951)		3045302	640.4	
39 n-Octacosane	14.448	14.504	-0.056	289313	NC	
65 C29	14.887	14.883	0.004	572816	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		3958491	649.8	
A 40 C24-C36	15.041	(12.848-17.234)		3958491	649.8	
A 50 C25-C36	15.259	(13.284-17.234)		3710539	641.3	
A 10 C22-C40	15.356	(11.922-18.790)		5142032	615.1	
A 41 C23-C40	15.592	(12.394-18.790)		5233102	638.1	
A 8 C24-C40	15.819	(12.848-18.790)		5006307	629.3	
56 Dotriacontane	15.935	15.951	-0.016	210117	NC	
A 51 C28-C40	16.647	(14.504-18.790)		3864754	624.9	
A 63 C29-C40	16.836	(14.883-18.790)		3490055	622.6	
42 n-Hexatriacontane		17.234			ND	
43 C40	18.834	18.790	0.044	1095204	NC	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated

Review Flags
- M - Manually Integrated
- U - Marked Undetected

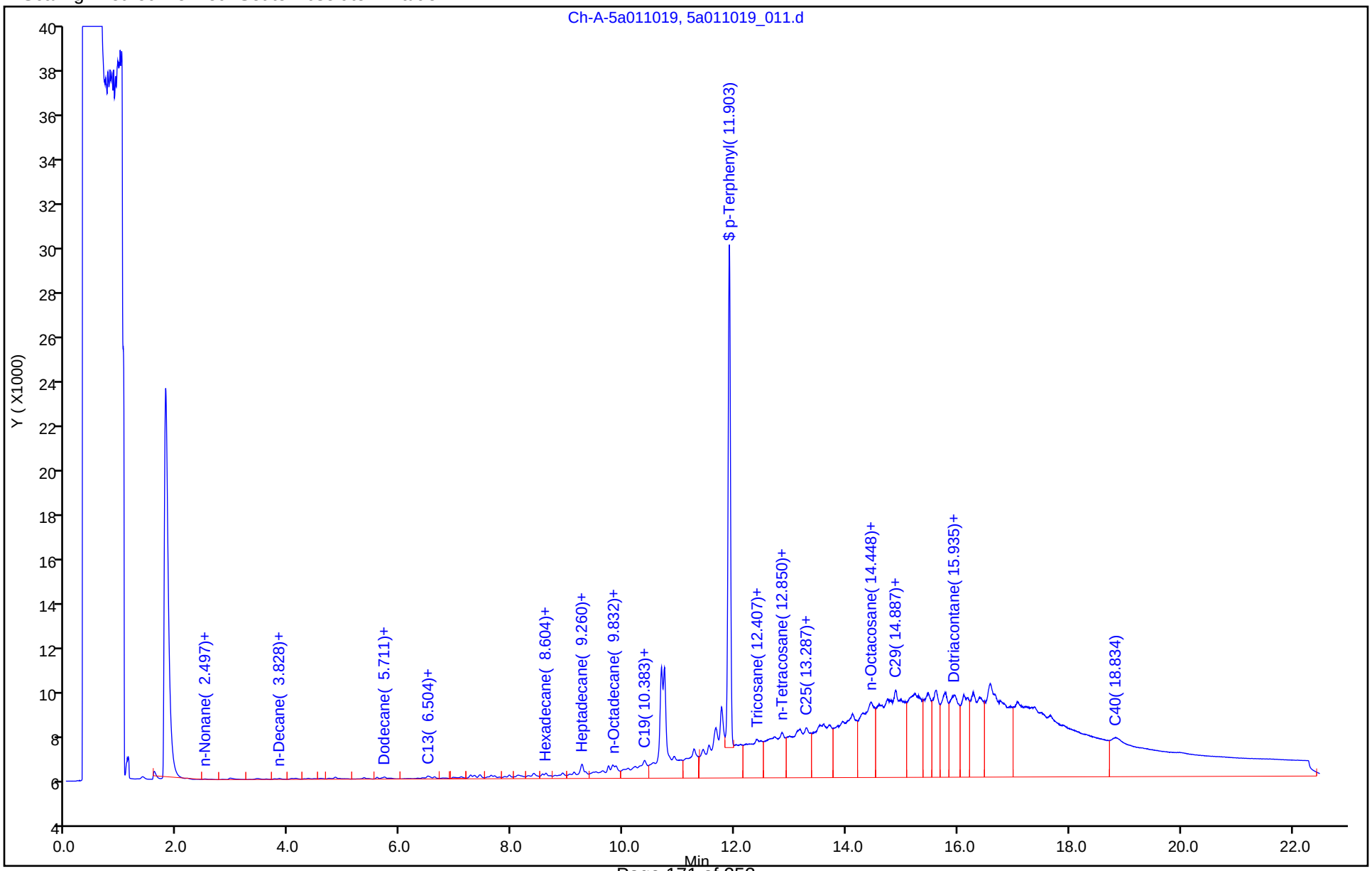
Report Date: 11-Jan-2019 13:16:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_011.d

Injection Date:	10-Jan-2019 20:29:17	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-23-C	Lab Sample ID:	720-90640-23	Worklist Smp#:	11
Client ID:	DUP-125				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_011.d				
Lims ID:	720-90640-E-23-C				
Client ID:	DUP-125				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 20:29:17	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 041 Name: 720-0056023-011				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:16:03	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:16:03

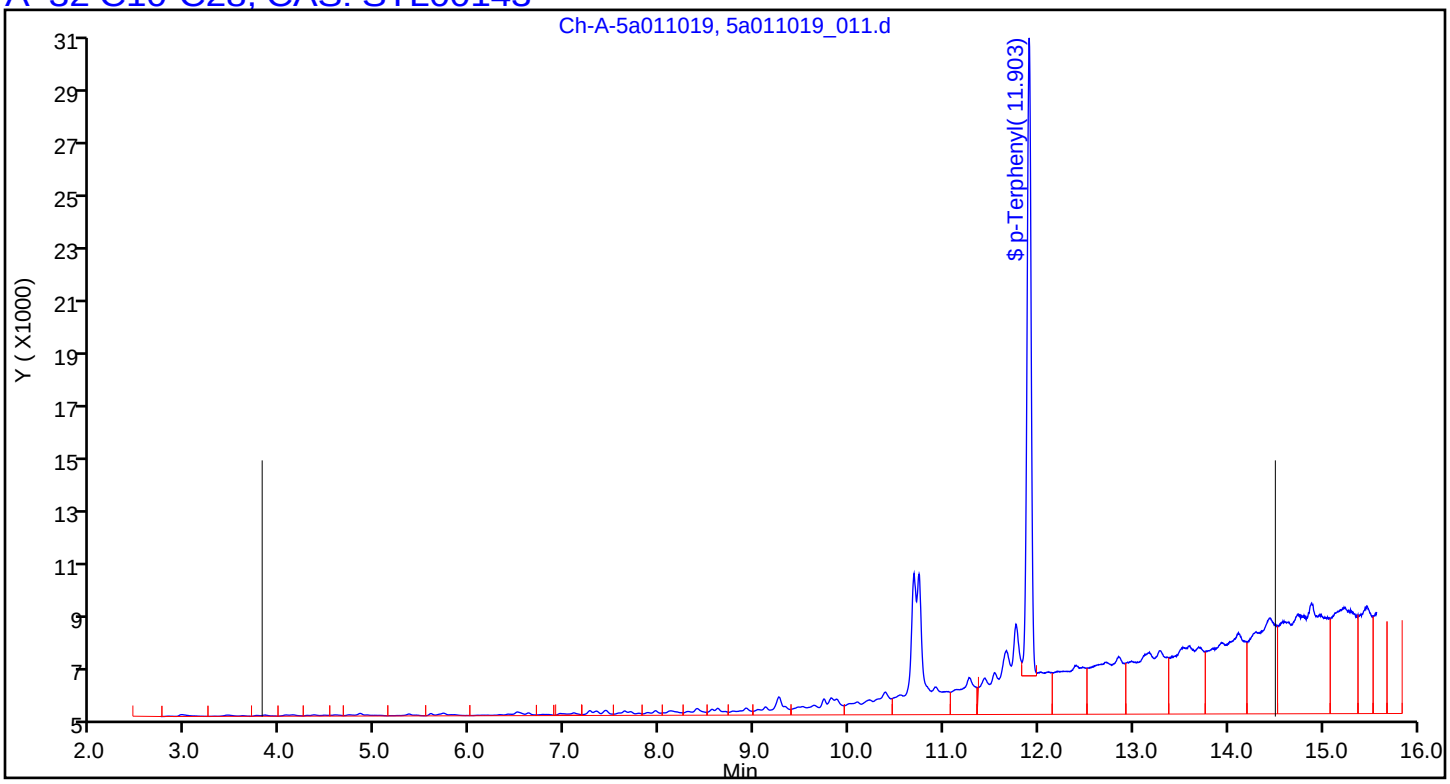
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	29.0	116.08

Report Date: 11-Jan-2019 13:16:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_011.d				
Injection Date:	10-Jan-2019 20:29:17	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-23-C	Lab Sample ID:	720-90640-23		
Client ID:	DUP-125				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

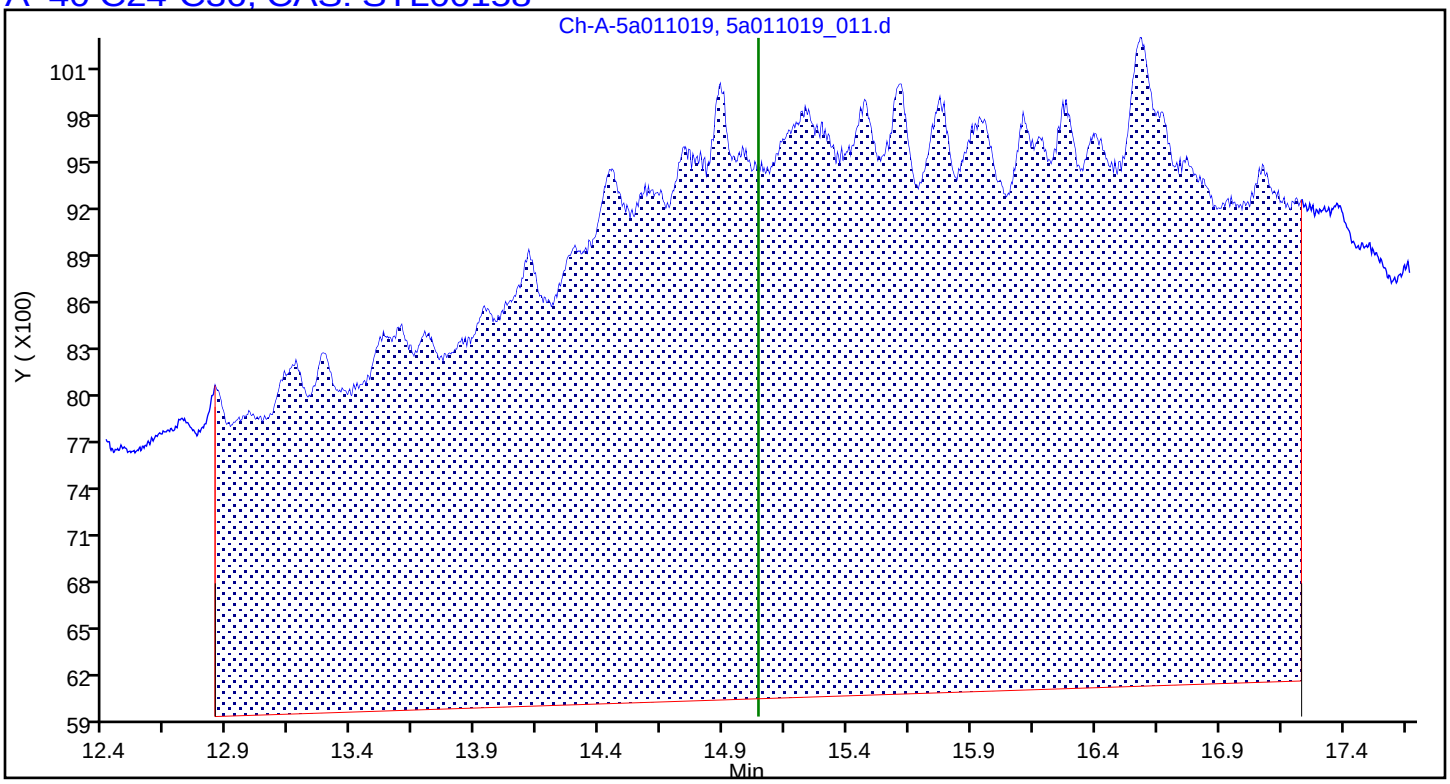


Report Date: 11-Jan-2019 13:16:05 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_011.d				
Injection Date:	10-Jan-2019 20:29:17	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-23-C	Lab Sample ID:	720-90640-23		
Client ID:	DUP-125				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

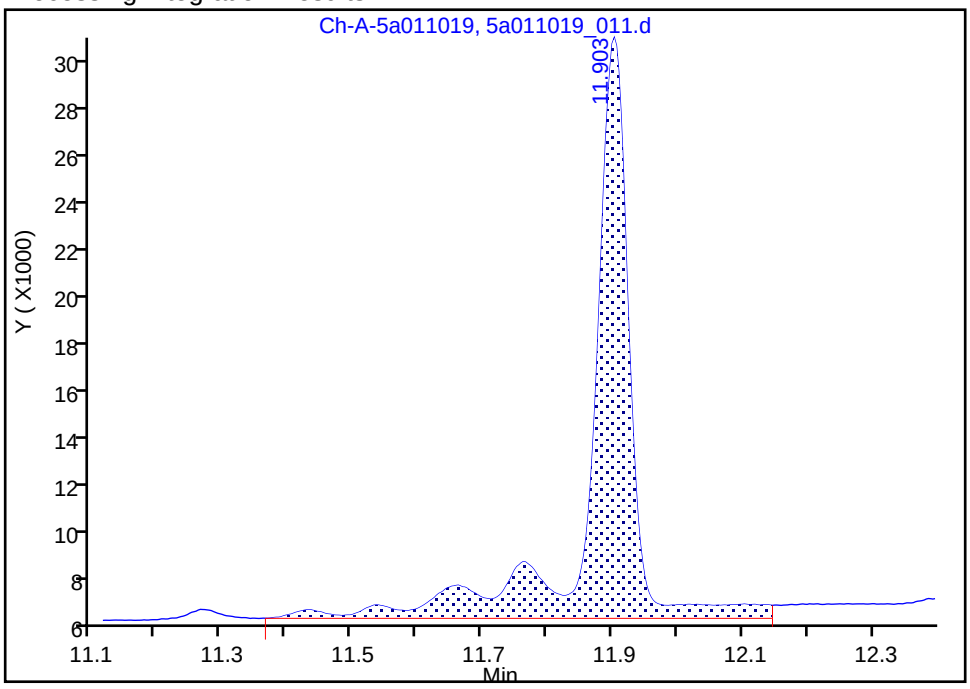
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_011.d				
Injection Date:	10-Jan-2019 20:29:17	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-23-C	Lab Sample ID:	720-90640-23		
Client ID:	DUP-125				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

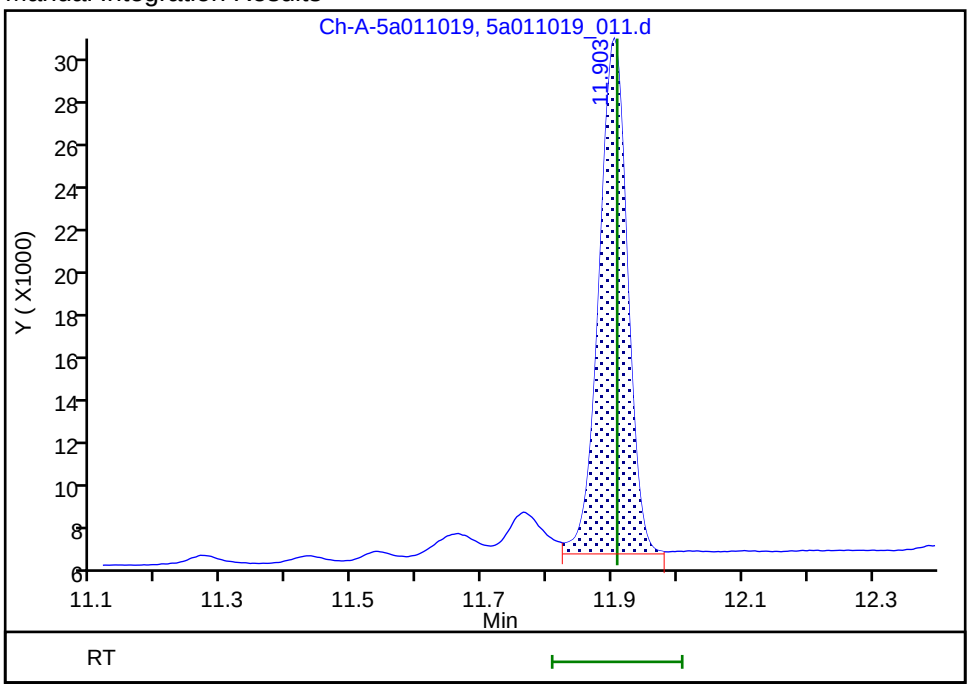
Processing Integration Results

RT: 11.90
Area: 491655
Amount: 41.229229
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 346074
Amount: 29.021091
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:15:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_017.d
Lims ID: 720-90640-E-24-C
Client ID: DG-O7S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 23:25:06 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 3.0000
Sample Info: #: 007 Name: 720-0056023-017
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:21:44 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:21:44

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.554			ND	
	23 n-Decane		3.799			ND	
A	1 C9-C13	4.538	(2.554-6.521)		19913	NC	
A	21 Stoddard Solvent	4.538	(2.554-6.521)		19913	NC	
A	57 C10-C12	4.758	(3.799-5.716)		7113	0.7257	
	24 Dodecane	5.705	5.716	-0.011	2486	NC	
A	3 C9 - C17	5.902	(2.554-9.250)		193694	16.0	
A	47 C9 - C18	6.199	(2.554-9.843)		283815	26.4	
A	60 C10-C16	6.206	(3.799-8.612)		94392	8.56	
A	15 Kerosene	6.468	(2.554-10.381)		283815	26.3	
A	25 C9-C19	6.468	(2.554-10.381)		283815	23.3	
	26 C13	6.510	6.521	-0.011	9188	NC	
$	27 n-Decanoic Acid (Surr)		7.163			ND	
A	59 C12-C16	7.164	(5.716-8.612)		89765	9.16	
A	62 C10-C20	7.358	(3.799-10.917)		474187	48.4	
A	28 C9-C24	7.701	(2.554-12.848)		1273153	129.9	
A	29 C9-C25	7.919	(2.554-13.284)		1273153	129.9	
A	54 C10-C23	8.097	(3.799-12.394)		976995	99.7	
A	4 C10-C24	8.323	(3.799-12.848)		1269541	129.5	
A	16 C10-C25	8.542	(3.799-13.284)		1269541	129.5	
	45 Hexadecane	8.614	8.612	0.002	22743	NC	
A	14 C10-C26	8.752	(3.799-13.705)		2712612	276.8	
A	67 C12-C22	8.819	(5.716-11.922)		972368	99.2	
A	12 Unknown Hydrocarbons	9.151	(3.799-14.504)		4176561	NC	
A	32 C10-C28	9.151	(3.799-14.504)		4176561	426.1	
A	5 Diesel	9.151	(3.799-14.504)		4176561	426.1	
A	30 C13-C22	9.222	(6.521-11.922)		969882	99.0	
	44 Heptadecane	9.248	9.250	-0.002	38154	NC	
A	31 C12-C24	9.282	(5.716-12.848)		1264914	129.1	
	49 n-Octadecane	9.838	9.843	-0.005	50037	NC	
A	9 Crude Oil Range Organics (	9.894	(2.554-17.234)		10972254	NC	
A	52 Mineral oil	9.894	(2.554-17.234)		10972254	979.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		9661957	NC	
33 C19	10.386	10.381	0.005	125195	NC	
A 64 C13-C28	10.512	(6.521-14.504)		4169448	425.4	
A 17 C10-C36	10.517	(3.799-17.234)		9658345	985.4	
A 13 C9-C40	10.672	(2.554-18.790)		13852459	1722.1	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		13852459	NC	
A 58 C16-C24	10.730	(8.612-12.848)		1175149	119.9	
61 icosane	10.923	10.917	0.006	45885	NC	
A 6 C10-C40	11.295	(3.799-18.790)		13847479	1721.6	
$ 34 p-Terphenyl	11.907	11.908	-0.001	121831	10.2	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		13826790	1719.3	
36 Tricosane	12.410	12.394	0.016	292546	NC	
A 66 C13-C40	12.655	(6.521-18.790)		13804633	1716.6	
37 n-Tetracosane		12.848			ND	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		10761690	1418.0	
38 C25	13.300	13.284	0.016	1055232	NC	
A 19 C16-C40	13.701	(8.612-18.790)		13641895	1697.0	
46 n-Hexacosane	13.713	13.705	0.008	239879	NC	
A 20 C19-C36	13.807	(10.381-17.234)		9670008	1120.7	
A 55 C23-C32	14.172	(12.394-15.951)		6693336	1407.5	
39 n-Octacosane		14.504			ND	
65 C29		14.883			ND	
A 7 Motor Oil	15.041	(12.848-17.234)		8483187	1392.5	
A 40 C24-C36	15.041	(12.848-17.234)		8483187	1392.5	
A 50 C25-C36	15.259	(13.284-17.234)		7937584	1372.0	
A 10 C22-C40	15.356	(11.922-18.790)		11817020	1413.5	
A 41 C23-C40	15.592	(12.394-18.790)		11614628	1416.2	
A 8 C24-C40	15.819	(12.848-18.790)		11193871	1407.1	
56 Dotriacontane		15.951			ND	
A 51 C28-C40	16.647	(14.504-18.790)		8526227	1597.3	
A 63 C29-C40	16.836	(14.883-18.790)		7681911	1623.6	
42 n-Hexatriacontane	17.300	17.234	0.066	6600868	NC	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

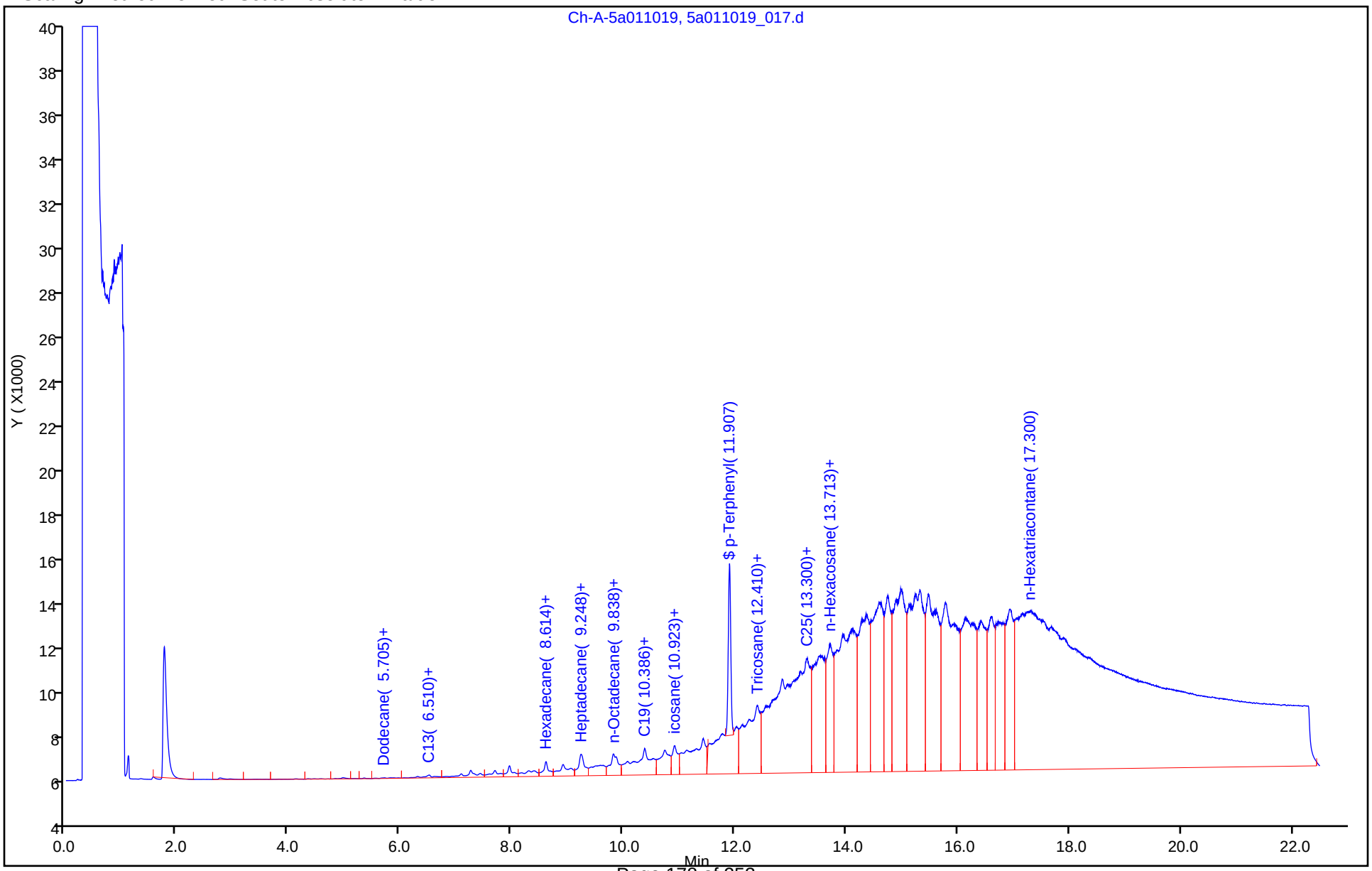
M - Manually Integrated

Report Date: 11-Jan-2019 13:21:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_017.d				
Injection Date:	10-Jan-2019 23:25:06	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-24-C	Lab Sample ID:	720-90640-24	Worklist Smp#:	17
Client ID:	DG-O7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	3.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_017.d				
Lims ID:	720-90640-E-24-C				
Client ID:	DG-O7S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 23:25:06	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Sample Info:	#: 007 Name: 720-0056023-017				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:21:44	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:21:44

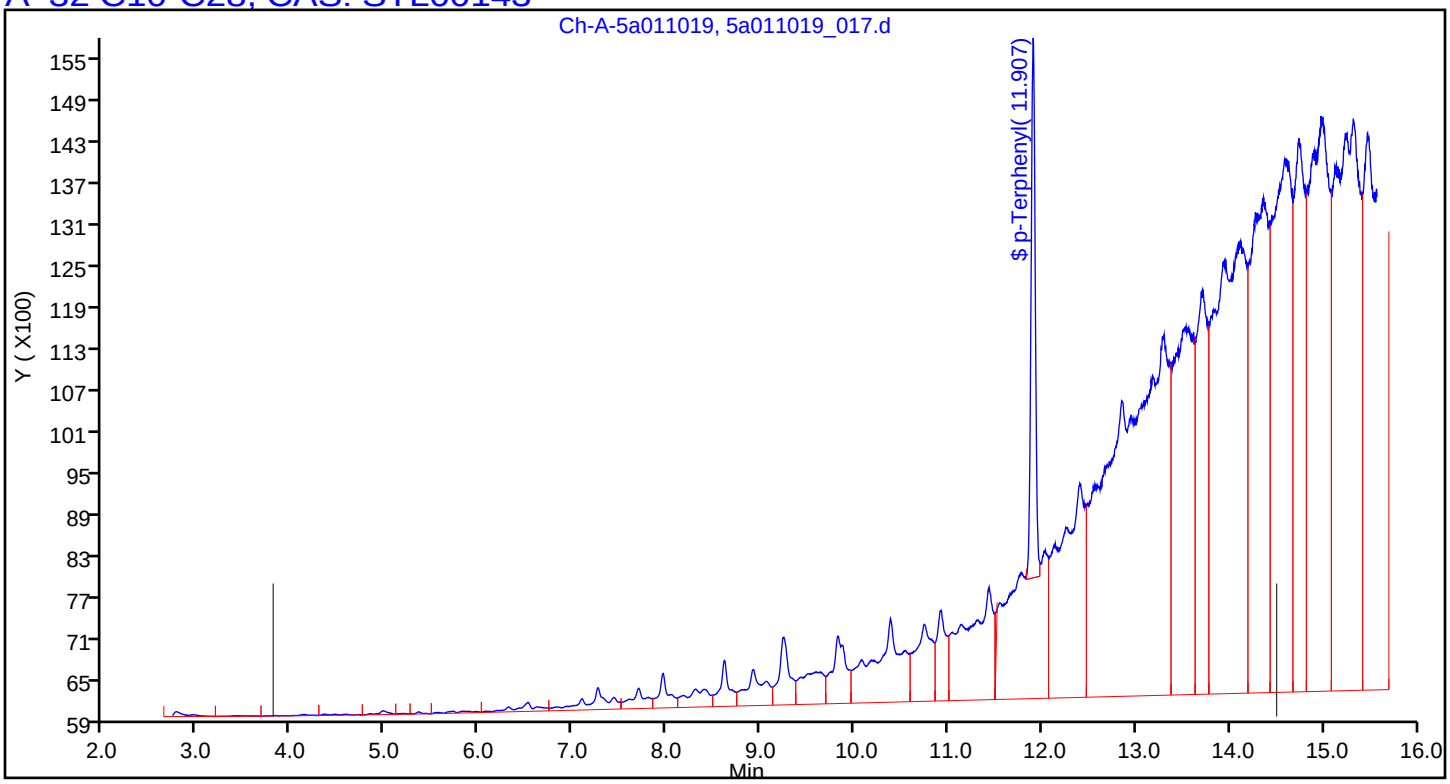
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	10.2	122.60

Report Date: 11-Jan-2019 13:21:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_017.d				
Injection Date:	10-Jan-2019 23:25:06	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-24-C	Lab Sample ID:	720-90640-24		
Client ID:	DG-O7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

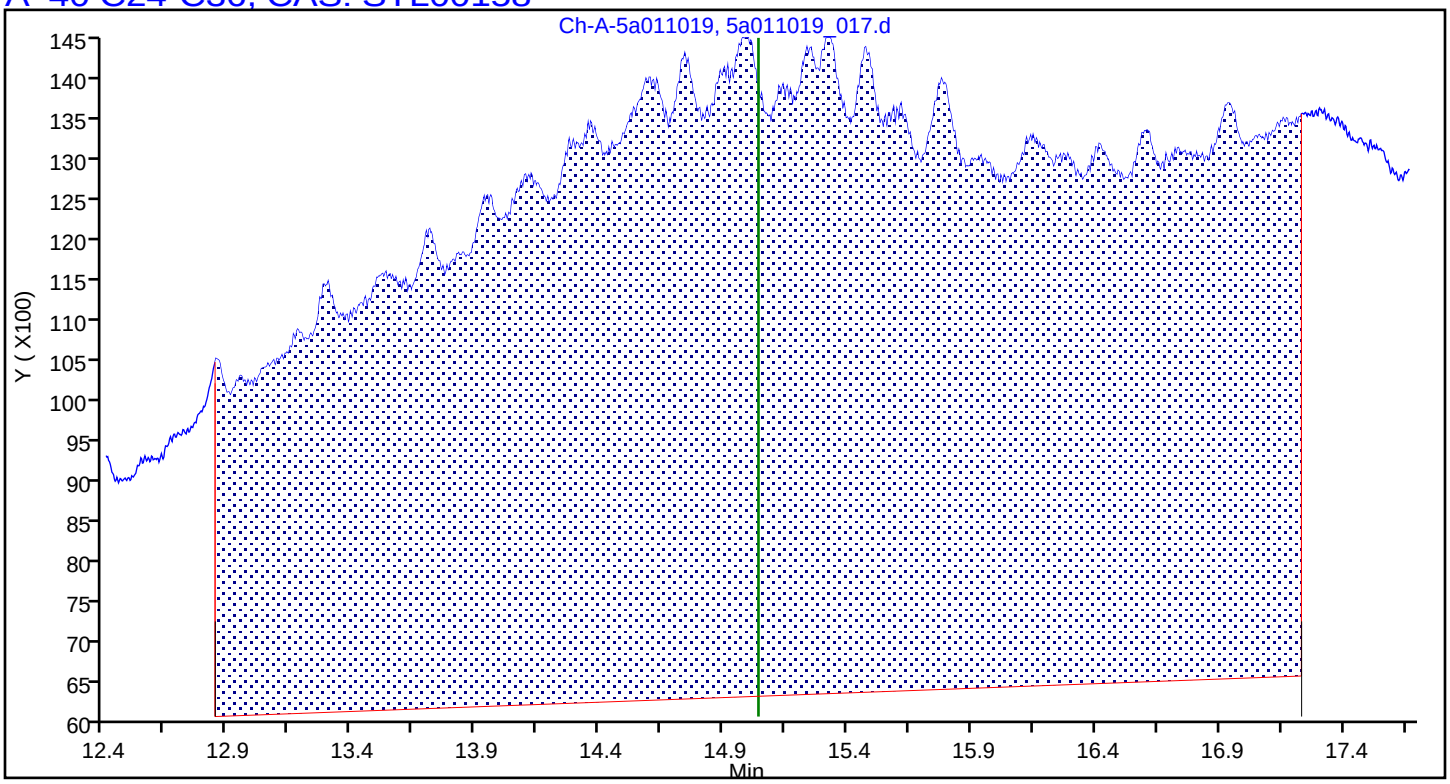


Report Date: 11-Jan-2019 13:21:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_017.d				
Injection Date:	10-Jan-2019 23:25:06	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-24-C	Lab Sample ID:	720-90640-24		
Client ID:	DG-O7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

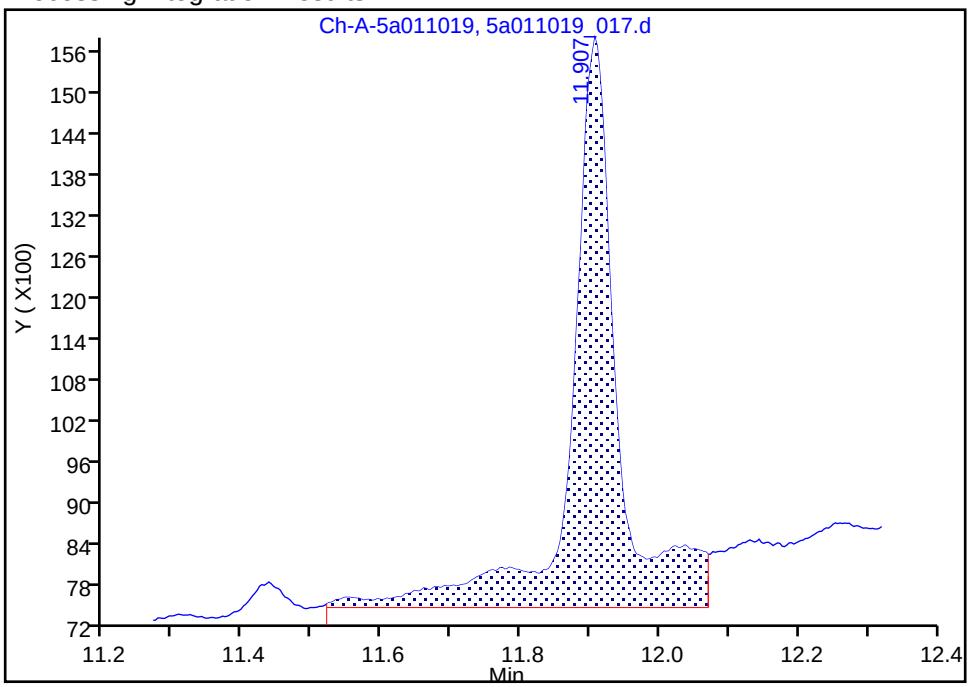
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Injection Date:	10-Jan-2019 23:25:06	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-24-C	Lab Sample ID:	720-90640-24		
Client ID:	DG-O7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

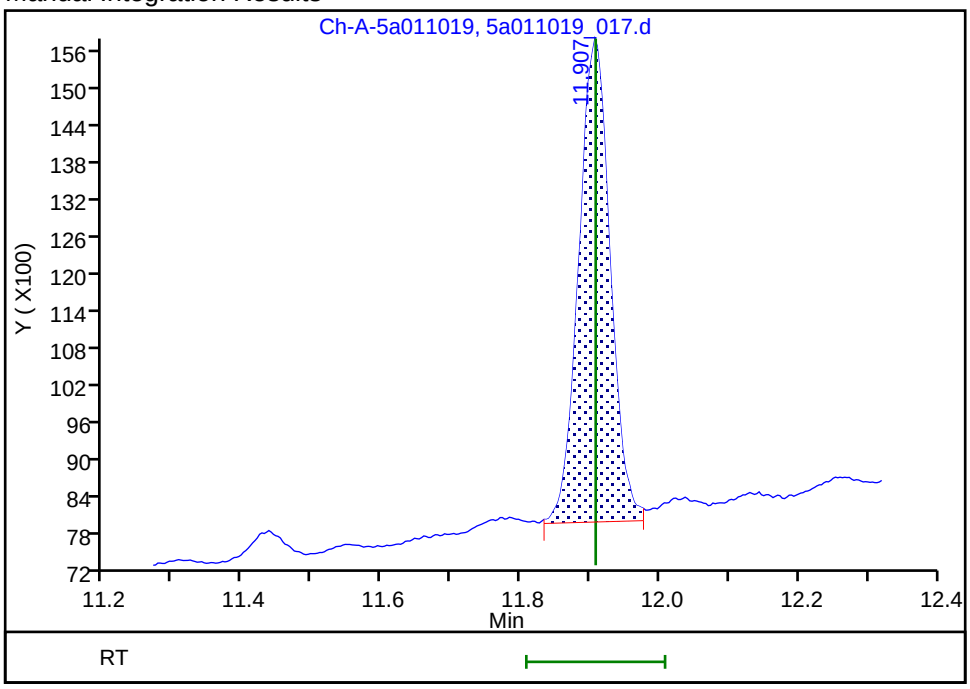
Processing Integration Results

RT: 11.91
Area: 195653
Amount: 16.407079
Amount Units: mg/L



Manual Integration Results

RT: 11.91
Area: 121831
Amount: 10.216510
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:20:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_012.d
Lims ID: 720-90640-E-25-C
Client ID: DG-O7S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 20:58:47 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 042 Name: 720-0056023-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:16:59 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:16:58

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.496	2.554	-0.058	351	NC	
	23 n-Decane	3.829	3.799	0.030	1041	NC	
A	1 C9-C13	4.538	(2.554-6.521)		28426	NC	
A	21 Stoddard Solvent	4.538	(2.554-6.521)		28426	NC	
A	57 C10-C12	4.758	(3.799-5.716)		16039	1.64	
	24 Dodecane	5.707	5.716	-0.009	3235	NC	
A	3 C9 - C17	5.902	(2.554-9.250)		112153	9.25	
A	47 C9 - C18	6.199	(2.554-9.843)		160101	14.9	
A	60 C10-C16	6.206	(3.799-8.612)		87386	7.93	
A	15 Kerosene	6.468	(2.554-10.381)		260950	24.2	
A	25 C9-C19	6.468	(2.554-10.381)		260950	21.4	
	26 C13	6.497	6.521	-0.024	5184	NC	
$	27 n-Decanoic Acid (Surr)		7.163			ND	U
A	59 C12-C16	7.164	(5.716-8.612)		74582	7.61	
A	62 C10-C20	7.358	(3.799-10.917)		589186	60.1	
A	28 C9-C24	7.701	(2.554-12.848)		1901179	194.0	
A	29 C9-C25	7.919	(2.554-13.284)		1901179	194.0	
A	54 C10-C23	8.097	(3.799-12.394)		1504906	153.5	
A	4 C10-C24	8.323	(3.799-12.848)		1893976	193.2	
A	16 C10-C25	8.542	(3.799-13.284)		1893976	193.2	
	45 Hexadecane	8.560	8.612	-0.052	14632	NC	
A	14 C10-C26	8.752	(3.799-13.705)		2931464	299.1	
A	67 C12-C22	8.819	(5.716-11.922)		1492102	152.2	
A	12 Unknown Hydrocarbons	9.151	(3.799-14.504)		4727525	NC	
A	32 C10-C28	9.151	(3.799-14.504)		4727525	482.4	
A	5 Diesel	9.151	(3.799-14.504)		4727525	482.4	
A	30 C13-C22	9.222	(6.521-11.922)		1488867	151.9	
	44 Heptadecane	9.263	9.250	0.013	47948	NC	
A	31 C12-C24	9.282	(5.716-12.848)		1881172	191.9	
	49 n-Octadecane	9.862	9.843	0.019	100849	NC	
A	9 Crude Oil Range Organics (	9.894	(2.554-17.234)		10439316	NC	
A	52 Mineral oil	9.894	(2.554-17.234)		10439316	931.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		13262195	NC	
33 C19	10.397	10.381	0.016	146916	NC	
A 64 C13-C28	10.512	(6.521-14.504)		4711486	480.7	
A 17 C10-C36	10.517	(3.799-17.234)		13254992	1352.4	
A 13 C9-C40	10.672	(2.554-18.790)		12200811	1511.6	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		12200811	NC	
A 58 C16-C24	10.730	(8.612-12.848)		1821222	185.8	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		12191628	1510.6	
$ 34 p-Terphenyl	11.903	11.908	-0.005	328947	27.6	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		12165202	1507.6	
36 Tricosane	12.405	12.394	0.011	389070	NC	
A 66 C13-C40	12.655	(6.521-18.790)		12151158	1506.0	
37 n-Tetracosane		12.848			ND	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		10292949	1356.2	
38 C25	13.299	13.284	0.015	1037488	NC	
A 19 C16-C40	13.701	(8.612-18.790)		12054444	1494.6	
46 n-Hexacosane		13.705			ND	
A 20 C19-C36	13.807	(10.381-17.234)		9558803	1107.8	
A 55 C23-C32	14.172	(12.394-15.951)		6160608	1295.5	
39 n-Octacosane	14.438	14.504	-0.066	599757	NC	
65 C29	14.896	14.883	0.013	1079042	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		7753484	1272.7	
A 40 C24-C36	15.041	(12.848-17.234)		7753484	1272.7	
A 50 C25-C36	15.259	(13.284-17.234)		7236526	1250.8	
A 10 C22-C40	15.356	(11.922-18.790)		10050383	1202.2	
A 41 C23-C40	15.592	(12.394-18.790)		9900809	1207.2	
A 8 C24-C40	15.819	(12.848-18.790)		9424148	1184.6	
56 Dotriacontane	15.906	15.951	-0.045	1221105	NC	
A 51 C28-C40	16.647	(14.504-18.790)		7031381	1251.8	
A 63 C29-C40	16.836	(14.883-18.790)		6256901	1241.3	
42 n-Hexatriacontane		17.234			ND	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

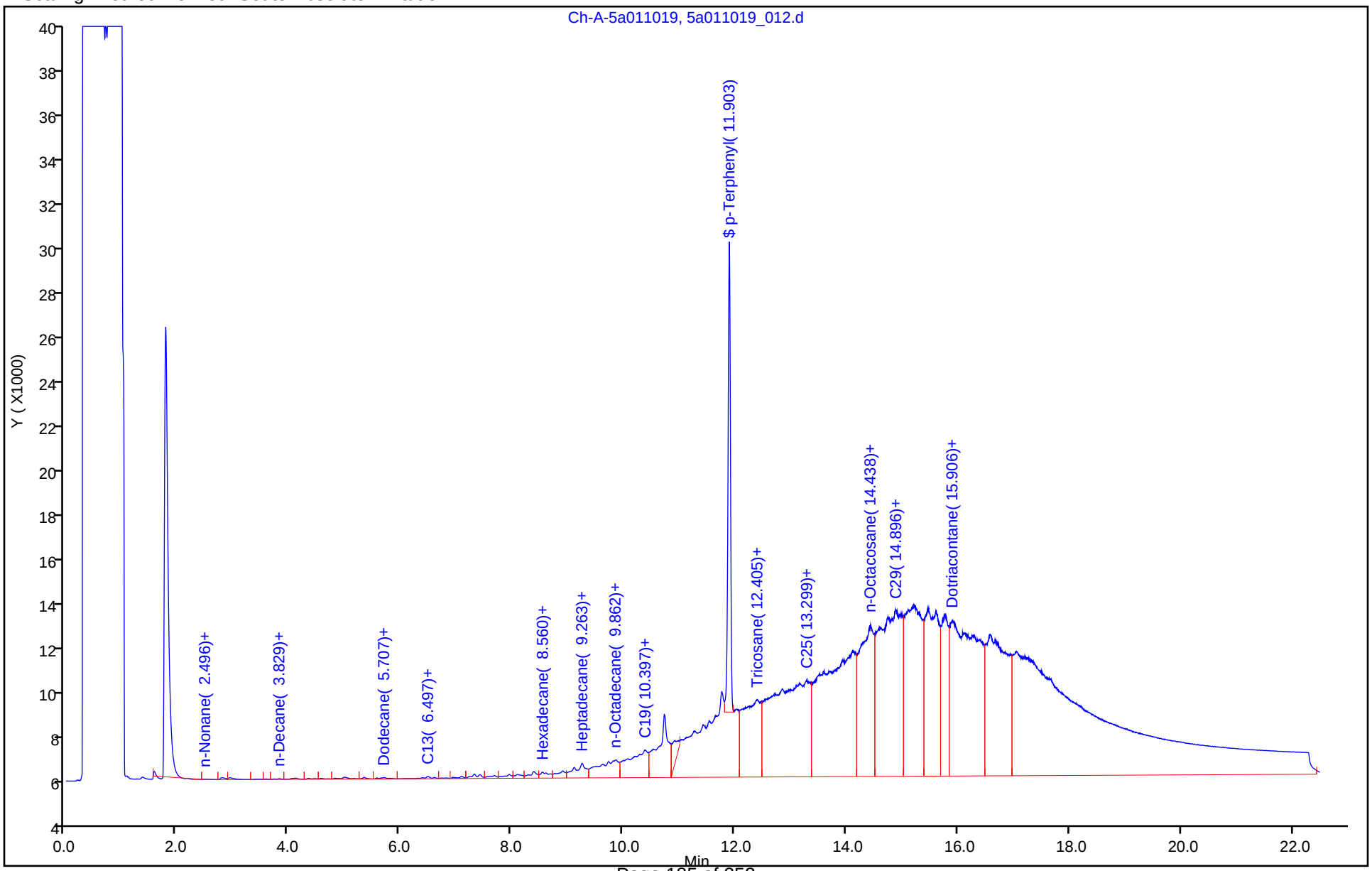
Report Date: 11-Jan-2019 13:16:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_012.d

Injection Date:	10-Jan-2019 20:58:47	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-25-C	Lab Sample ID:	720-90640-25	Worklist Smp#:	12
Client ID:	DG-O7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_012.d
Lims ID: 720-90640-E-25-C
Client ID: DG-O7S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 20:58:47 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 042 Name: 720-0056023-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:16:59 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:16:58

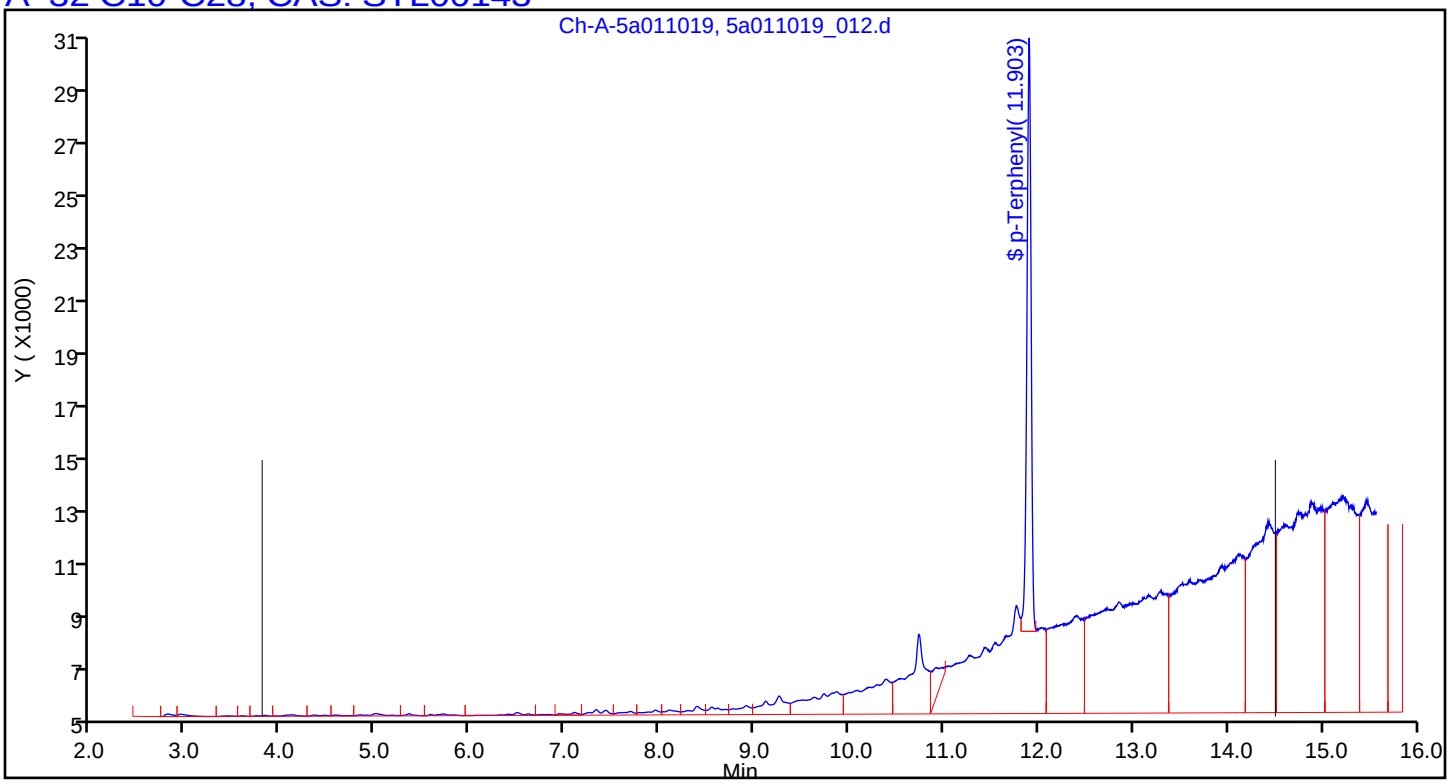
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.6	110.34

Report Date: 11-Jan-2019 13:17:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_012.d				
Injection Date:	10-Jan-2019 20:58:47	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-25-C	Lab Sample ID:	720-90640-25		
Client ID:	DG-O7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

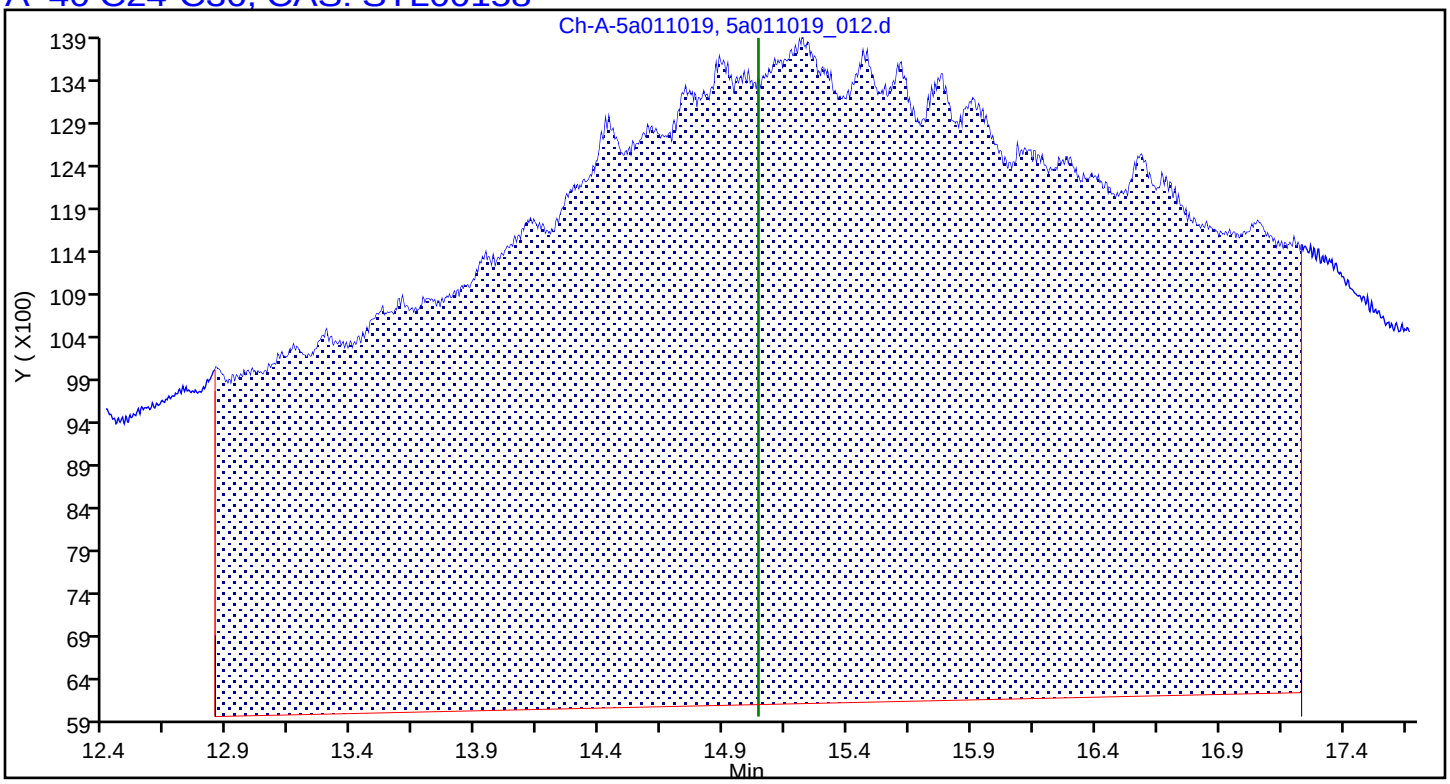


Report Date: 11-Jan-2019 13:17:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_012.d				
Injection Date:	10-Jan-2019 20:58:47	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-25-C	Lab Sample ID:	720-90640-25		
Client ID:	DG-O7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

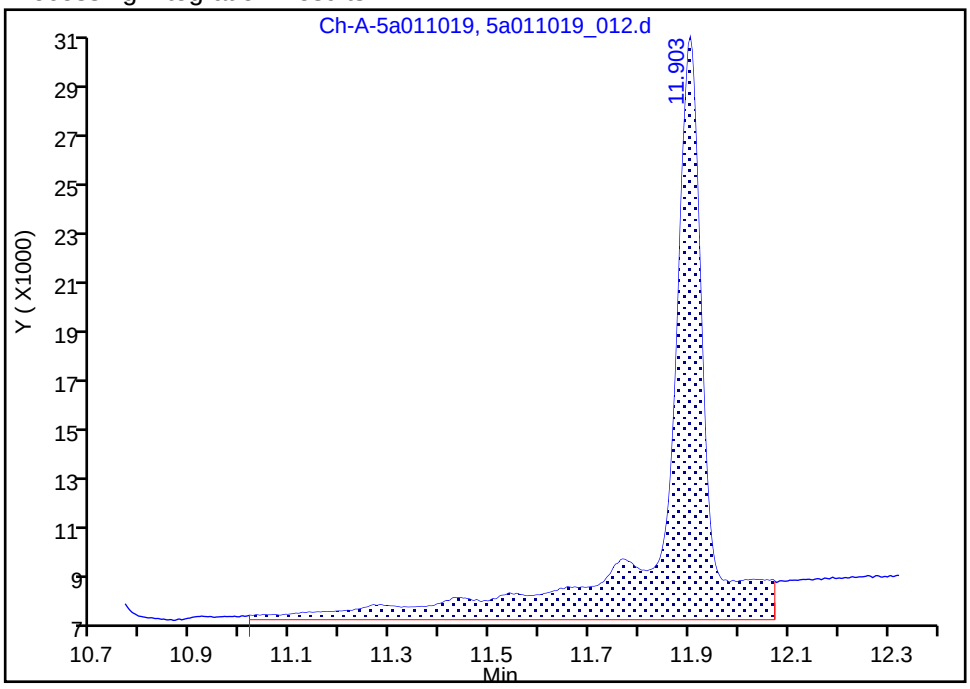
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_012.d				
Injection Date:	10-Jan-2019 20:58:47	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-25-C	Lab Sample ID:	720-90640-25		
Client ID:	DG-O7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

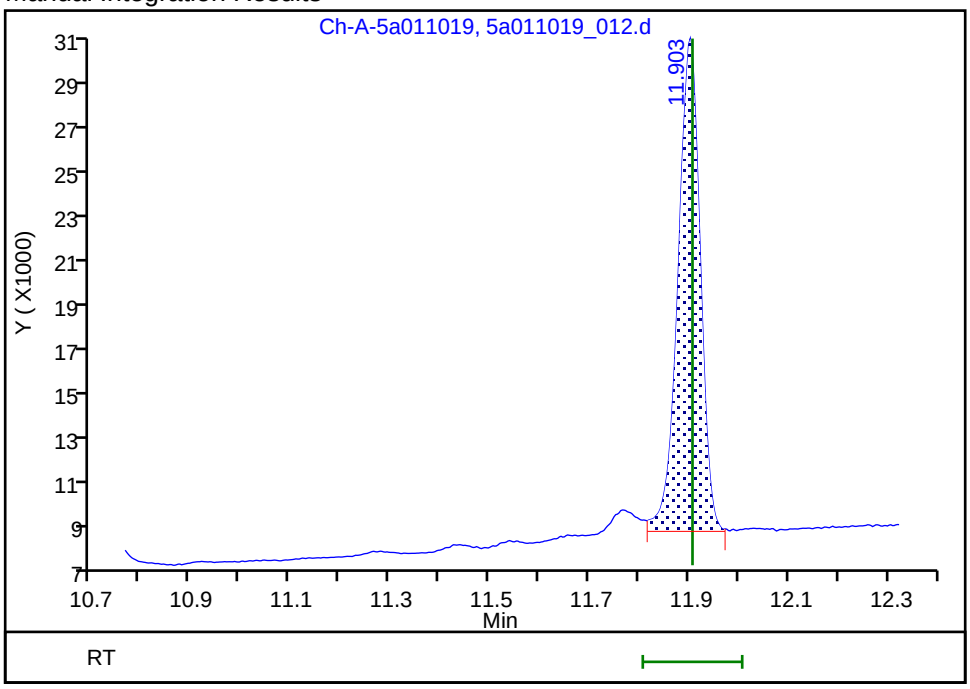
Processing Integration Results

RT: 11.90
Area: 637096
Amount: 53.425628
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 328947
Amount: 27.584854
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:16:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_016.d
Lims ID: 720-90640-E-26-C
Client ID: DG-Q7S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 22:55:19 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 006 Name: 720-0056023-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:20:28 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:20:28

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.485	2.554	-0.069	2289	NC	
23 n-Decane	3.807	3.799	0.008	4013	NC	
A 1 C9-C13	4.538	(2.554-6.521)		68358	NC	
A 21 Stoddard Solvent	4.538	(2.554-6.521)		68358	NC	
A 57 C10-C12	4.758	(3.799-5.716)		33504	3.42	
24 Dodecane		5.716			ND	
A 3 C9 - C17	5.902	(2.554-9.250)		330379	27.3	
A 47 C9 - C18	6.199	(2.554-9.843)		494172	45.9	
A 60 C10-C16	6.206	(3.799-8.612)		210418	19.1	
A 15 Kerosene	6.468	(2.554-10.381)		494172	45.8	
A 25 C9-C19	6.468	(2.554-10.381)		494172	40.5	
26 C13	6.505	6.521	-0.016	25728	NC	
$ 27 n-Decanoic Acid (Surr)		7.163			ND	U
A 59 C12-C16	7.164	(5.716-8.612)		188791	19.3	
A 62 C10-C20	7.358	(3.799-10.917)		1129696	115.3	
A 28 C9-C24	7.701	(2.554-12.848)		3997823	407.9	
A 29 C9-C25	7.919	(2.554-13.284)		6011406	613.3	
A 54 C10-C23	8.097	(3.799-12.394)		2888639	294.7	
A 4 C10-C24	8.323	(3.799-12.848)		3990044	407.1	
A 16 C10-C25	8.542	(3.799-13.284)		6003627	612.6	
45 Hexadecane	8.555	8.612	-0.057	25989	NC	
A 14 C10-C26	8.752	(3.799-13.705)		7766533	792.4	
A 67 C12-C22	8.819	(5.716-11.922)		2867012	292.5	
A 12 Unknown Hydrocarbons	9.151	(3.799-14.504)		10142800	NC	
A 32 C10-C28	9.151	(3.799-14.504)		10142800	1034.9	
A 5 Diesel	9.151	(3.799-14.504)		10142800	1034.9	
A 30 C13-C22	9.222	(6.521-11.922)		2853788	291.2	
44 Heptadecane		9.250			ND	
A 31 C12-C24	9.282	(5.716-12.848)		3968417	404.9	
49 n-Octadecane	9.801	9.843	-0.042	163793	NC	
A 9 Crude Oil Range Organics (	9.894	(2.554-17.234)		18343069	NC	
A 52 Mineral oil	9.894	(2.554-17.234)		18343069	1637.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		16979446	NC	
33 C19		10.381			ND	
A 64 C13-C28	10.512	(6.521-14.504)		10107949	1031.3	
A 17 C10-C36	10.517	(3.799-17.234)		16971667	1731.6	
A 13 C9-C40	10.672	(2.554-18.790)		21389396	2682.7	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.790)		21389396	NC	
A 58 C16-C24	10.730	(8.612-12.848)		3805615	388.3	
61 icosane		10.917			ND	
A 6 C10-C40	11.295	(3.799-18.790)		21376639	2681.1	
$ 34 p-Terphenyl	11.903	11.908	-0.005	160113	13.4	M
35 n-Docosane		11.922			ND	
A 18 C12-C40	12.253	(5.716-18.790)		21311259	2672.8	
36 Tricosane	12.422	12.394	0.028	1101405	NC	
A 66 C13-C40	12.655	(6.521-18.790)		21266965	2667.4	
37 n-Tetracosane	12.861	12.848	0.013	1169999	NC	
A 2 C16-C36 ORO	12.923	(8.612-17.234)		17954645	2365.7	
38 C25	13.294	13.284	0.010	626361	NC	
A 19 C16-C40	13.701	(8.612-18.790)		21000972	2635.0	
46 n-Hexacosane	13.609	13.705	-0.096	1136545	NC	
A 20 C19-C36	13.807	(10.381-17.234)		16481074	1910.0	
A 55 C23-C32	14.172	(12.394-15.951)		10622230	2233.8	
39 n-Octacosane	14.446	14.504	-0.058	1311085	NC	
65 C29	14.909	14.883	0.026	853280	NC	
A 7 Motor Oil	15.041	(12.848-17.234)		12319344	2022.2	
A 40 C24-C36	15.041	(12.848-17.234)		12319344	2022.2	
A 50 C25-C36	15.259	(13.284-17.234)		11122788	1922.5	
A 10 C22-C40	15.356	(11.922-18.790)		17204468	2057.9	
A 41 C23-C40	15.592	(12.394-18.790)		16309326	1988.7	
A 8 C24-C40	15.819	(12.848-18.790)		15175836	1907.7	
56 Dotriacontane	15.974	15.951	0.023	523468	NC	
A 51 C28-C40	16.647	(14.504-18.790)		10401497	2105.6	
A 63 C29-C40	16.836	(14.883-18.790)		9224893	2126.6	
42 n-Hexatriacontane	17.253	17.234	0.019	6174140	NC	
43 C40		18.790			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

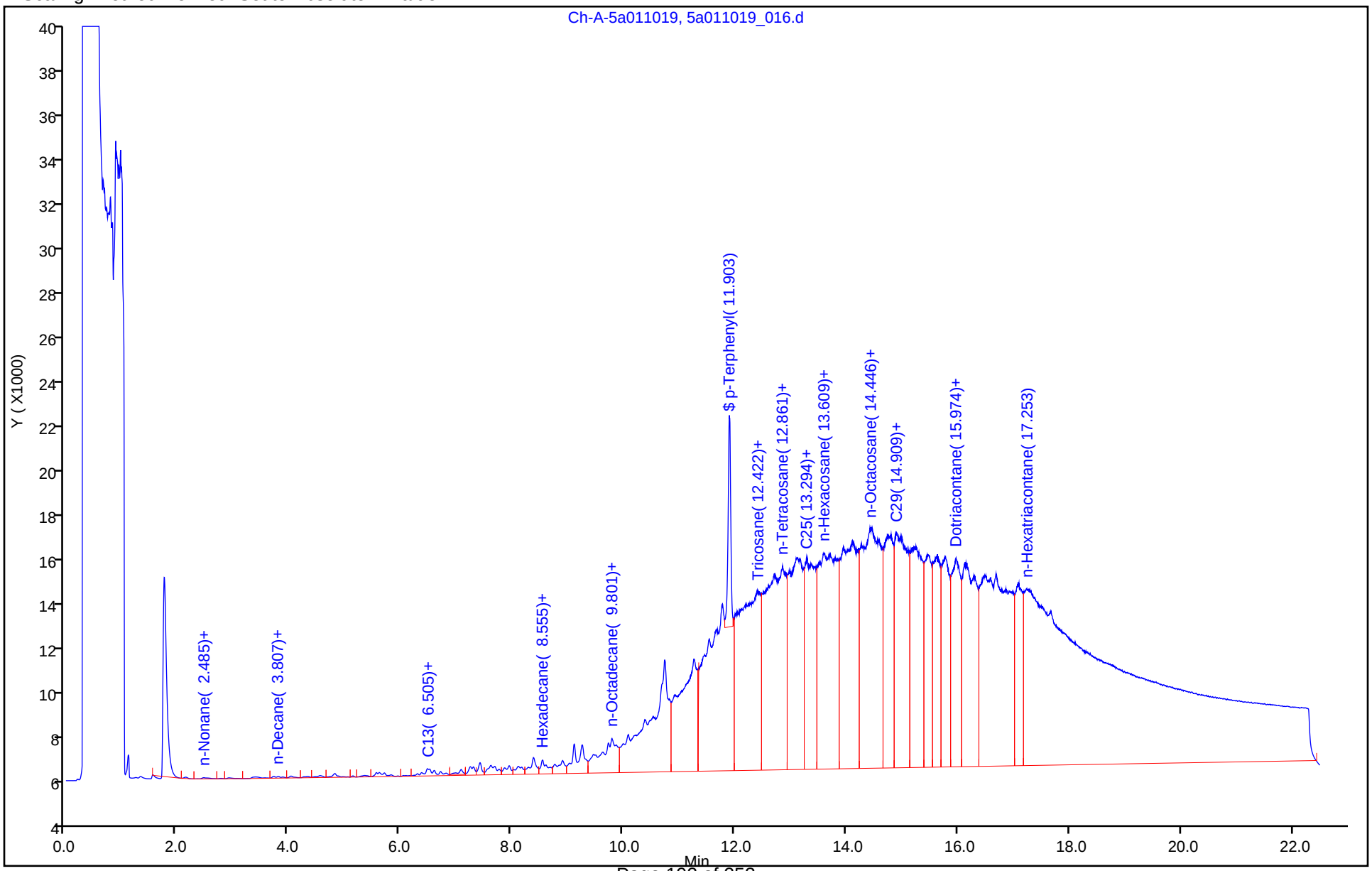
Report Date: 11-Jan-2019 13:20:28 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_016.d

Injection Date:	10-Jan-2019 22:55:19	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-26-C	Lab Sample ID:	720-90640-26	Worklist Smp#:	16
Client ID:	DG-Q7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_016.d				
Lims ID:	720-90640-E-26-C				
Client ID:	DG-Q7S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Jan-2019 22:55:19	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 006 Name: 720-0056023-016				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Jan-2019 13:20:28	Calib Date:	10-Jan-2019 12:11:31		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 11-Jan-2019 13:20:28

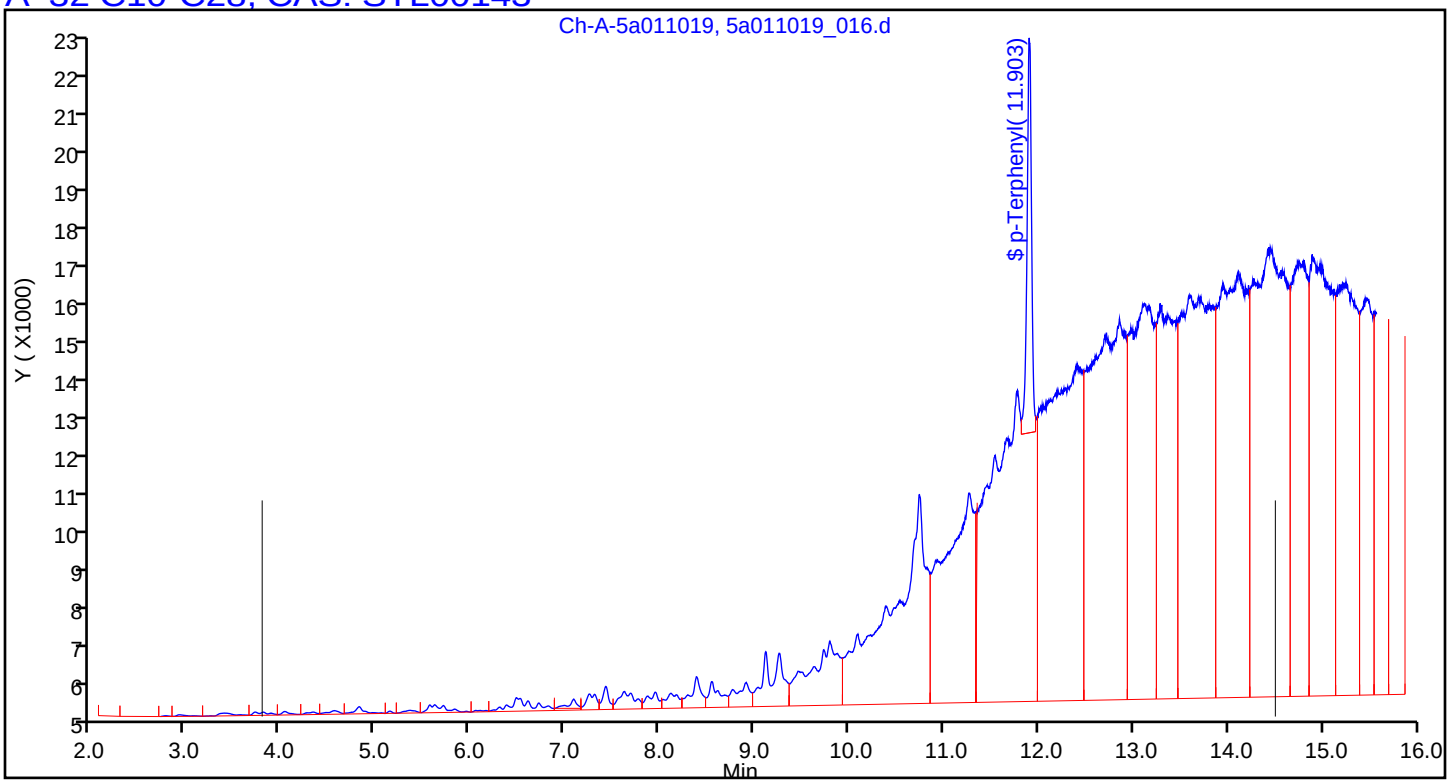
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	13.4	107.41

Report Date: 11-Jan-2019 13:20:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_016.d				
Injection Date:	10-Jan-2019 22:55:19	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-26-C	Lab Sample ID:	720-90640-26		
Client ID:	DG-Q7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

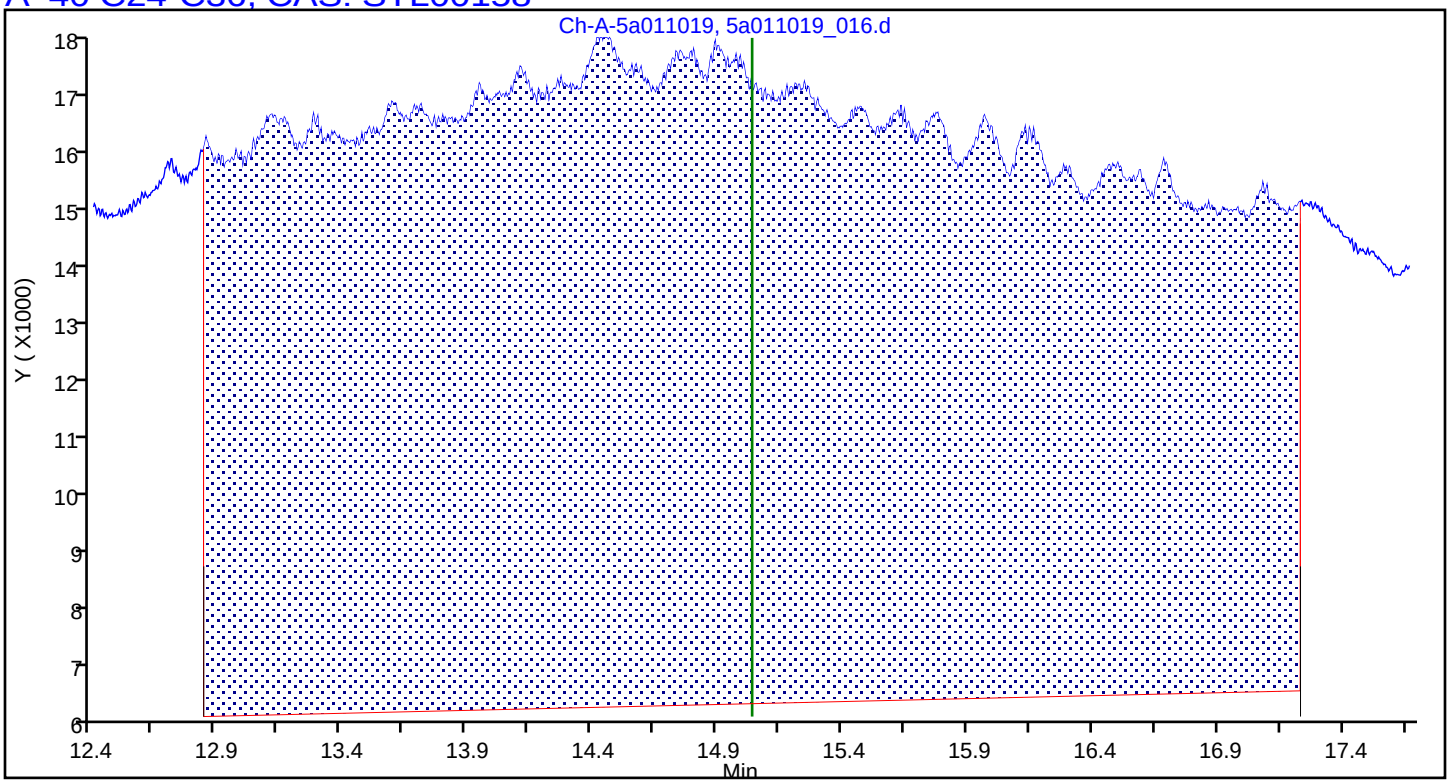


Report Date: 11-Jan-2019 13:20:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_016.d				
Injection Date:	10-Jan-2019 22:55:19	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-26-C	Lab Sample ID:	720-90640-26		
Client ID:	DG-Q7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

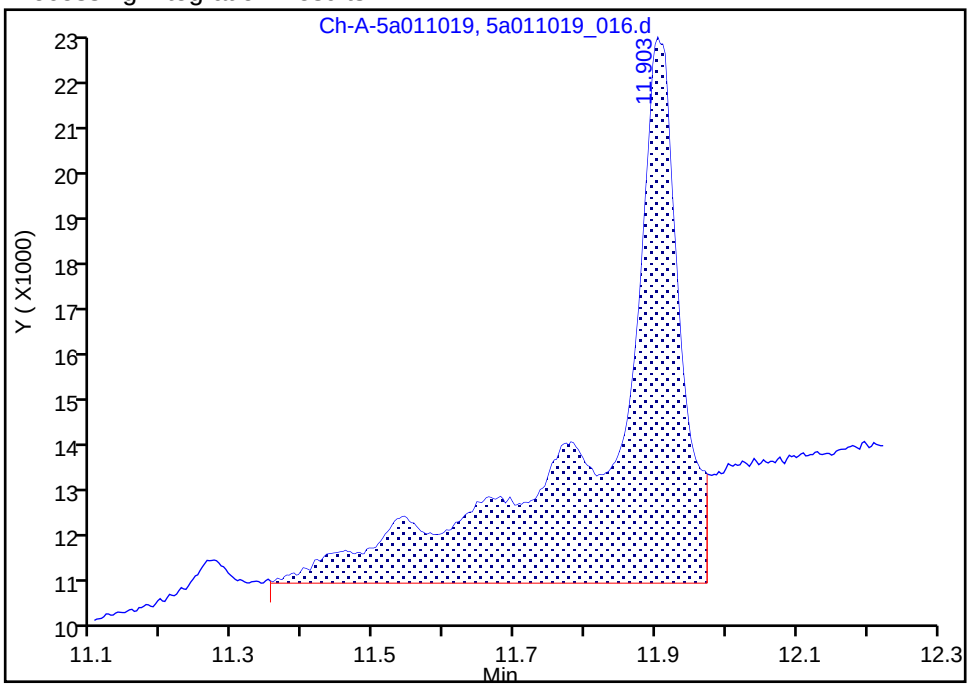
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56023.b\5a011019_016.d				
Injection Date:	10-Jan-2019 22:55:19	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-26-C	Lab Sample ID:	720-90640-26		
Client ID:	DG-Q7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

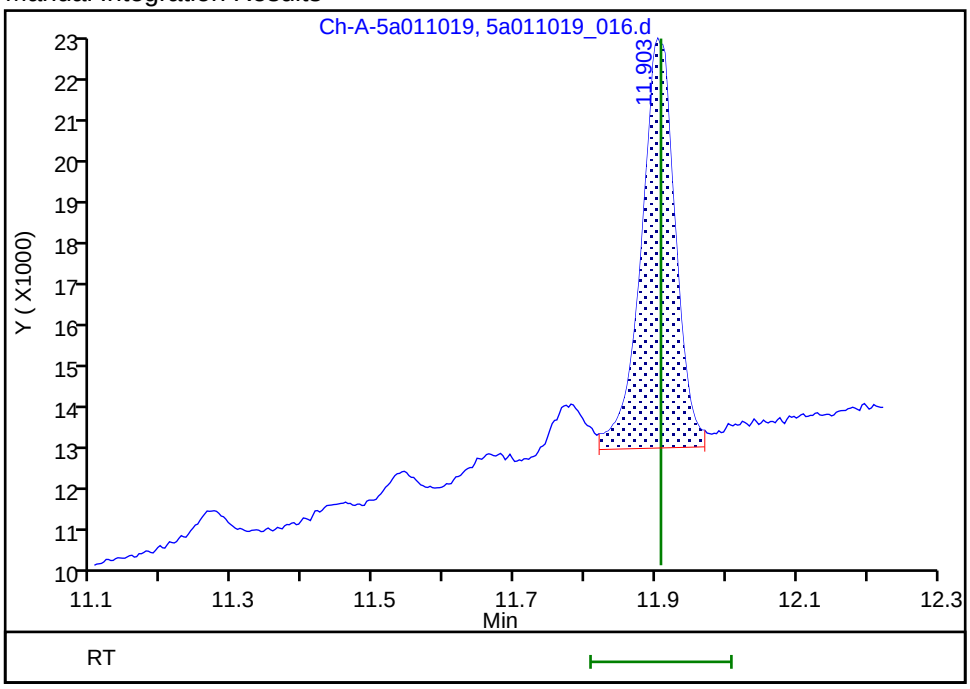
Processing Integration Results

RT: 11.90
Area: 433970
Amount: 36.391878
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 160113
Amount: 13.426764
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 13:20:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000010.D
Lims ID: 720-90640-E-27-F
Client ID: DG-Q7S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 18:47:24 ALS Bottle#: 60 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-010
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:05:52 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:05:52

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.357	1.354	0.003	486285	NC	M
	23 n-Decane	2.207	2.206	0.001	1461942	NC	M
A	21 Stoddard Solvent	2.809	(1.354-4.264)		31461556	13.2	M
A	1 C9-C13	2.809	(1.354-4.264)		31461556	NC	M
A	57 C10-C12	2.929	(2.206-3.652)		16861614	8.53	M
	24 Dodecane	3.654	3.652	0.002	1232719	NC	M
A	3 C9 - C17	3.834	(1.354-6.313)		88493148	30.8	M
A	60 C10-C16	4.024	(2.206-5.842)		66982296	26.2	M
A	47 C9 - C18	4.056	(1.354-6.758)		119259398	52.6	M
	26 C13	4.266	4.264	0.002	2284703	NC	M
A	25 C9-C19	4.268	(1.354-7.181)		141502079	49.0	M
A	15 Kerosene	4.268	(1.354-7.181)		141502079	62.3	M
$	27 n-Decanoic Acid (Surr)		4.614			ND	U
A	59 C12-C16	4.747	(3.652-5.842)		50120682	25.3	M
A	61 C10-C20	4.897	(2.206-7.588)		194220203	98.2	M
A	28 C9-C24	5.204	(1.354-9.054)		522847843	264.4	M
A	29 C9-C25	5.370	(1.354-9.386)		616548432	311.8	M
A	54 C10-C23	5.457	(2.206-8.709)		424709429	214.8	M
A	4 C10-C24	5.630	(2.206-9.054)		517194564	261.5	M
A	16 C10-C25	5.796	(2.206-9.386)		610895153	308.9	M
	45 Hexadecane	5.845	5.842	0.003	6224817	NC	M
A	14 C10-C26	5.956	(2.206-9.706)		691702696	349.8	M
A	67 C12-C22	6.001	(3.652-8.350)		323185035	163.4	M
A	32 C10-C28	6.260	(2.206-10.314)		917389751	463.9	M
A	12 Unknown Hydrocarbons	6.260	(2.206-10.314)		917389751	NC	M
A	5 Diesel	6.260	(2.206-10.314)		917389751	463.9	M
A	30 C13-C22	6.307	(4.264-8.350)		314238372	158.9	M
	44 Heptadecane	6.357	6.313	0.044	11561354	NC	M
A	31 C12-C24	6.353	(3.652-9.054)		500332950	253.0	M
	49 n-Octadecane	6.757	6.758	-0.001	8479203	NC	M
A	52 Mineral oil	6.875	(1.354-12.396)		1794445721	779.7	M
A	11 Bunker Range Organics (C9-	6.875	(1.354-12.396)		1794445721	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.875	(1.354-12.396)		1794445721	NC	M
33 C19	7.182	7.181	0.001	12879950	NC	M
A 64 C13-C28	7.289	(4.264-10.314)		891581474	450.9	M
A 17 C10-C36	7.301	(2.206-12.396)		1788792442	904.6	M
A 13 C9-C40	7.363	(1.354-13.372)		2878405314	1623.8	M
A 68 Crude Oil Range Organics (	7.363	(1.354-13.372)		2878405314	NC	M
A 58 C16-C24	7.448	(5.842-9.054)		450212268	227.7	M
62 icosane	7.589	7.588	0.001	10921365	NC	M
A 6 C10-C40	7.789	(2.206-13.372)		2872752035	1622.5	M
$ 34 p-Terphenyl	8.045	8.049	-0.004	56277518	21.8	M
35 n-Docosane	8.353	8.350	0.003	18169368	NC	M
A 18 C12-C40	8.512	(3.652-13.372)		2855890421	1618.9	M
36 Tricosane	8.712	8.709	0.003	39714638	NC	M
A 66 C13-C40	8.818	(4.264-13.372)		2846943758	1615.2	M
37 n-Tetracosane	9.054	9.054	0.000	23926659	NC	M
A 2 C16-C36 ORO	9.119	(5.842-12.396)		1721810146	1271.6	M
38 C25	9.389	9.386	0.003	35066520	NC	M
A 19 C16-C40	9.607	(5.842-13.372)		2805769739	1595.1	M
46 n-Hexacosane	9.755	9.706	0.049	54949476	NC	M
A 20 C19-C36	9.789	(7.181-12.396)		1268510994	787.9	
A 55 C23-C32	10.063	(8.709-11.418)		983823161	1109.1	M
39 n-Octacosane	10.263	10.314	-0.051	36693518	NC	M
65 C29	10.605	10.604	0.001	38204682	NC	M
A 7 Motor Oil	10.725	(9.054-12.396)		1077048745	931.1	
A 40 C24-C36	10.725	(9.054-12.396)		1283326977	1109.4	M
A 10 C22-C40	10.861	(8.350-13.372)		1476826914	912.2	
A 50 C25-C36	10.891	(9.386-12.396)		931966217	860.9	
A 41 C23-C40	11.040	(8.709-13.372)		1425070177	897.4	
A 8 C24-C40	11.213	(9.054-13.372)		1444161573	929.2	
56 Dotriacontane	11.405	11.418	-0.013	84426326	NC	M
A 51 C28-C40	11.843	(10.314-13.372)		1131093221	909.3	
A 63 C29-C40	11.988	(10.604-13.372)		1033658993	905.2	
42 n-Hexatriacontane	12.412	12.396	0.016	41269482	NC	M
43 C40		13.372			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

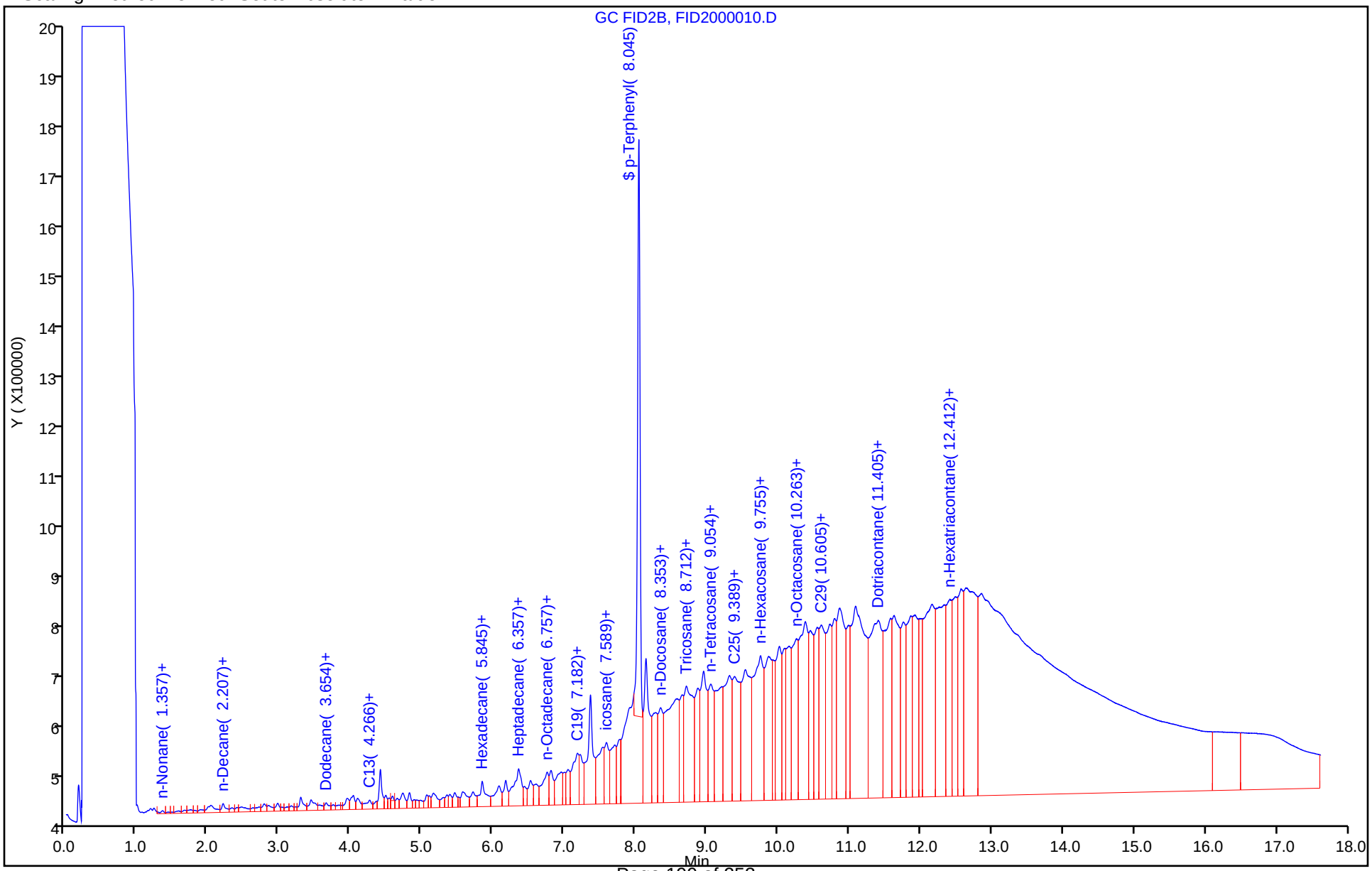
Report Date: 11-Jan-2019 12:05:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000010.D

Injection Date:	10-Jan-2019 18:47:24	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90640-E-27-F	Lab Sample ID:	720-90640-27	Worklist Smp#:	10
Client ID:	DG-Q7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	60
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000010.D
Lims ID: 720-90640-E-27-F
Client ID: DG-Q7S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 18:47:24 ALS Bottle#: 60 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056021-010
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\DRO6_B.m
Limit Group: DRO
Last Update: 11-Jan-2019 12:05:52 Calib Date: 10-Jan-2019 10:31:54
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 12:05:52

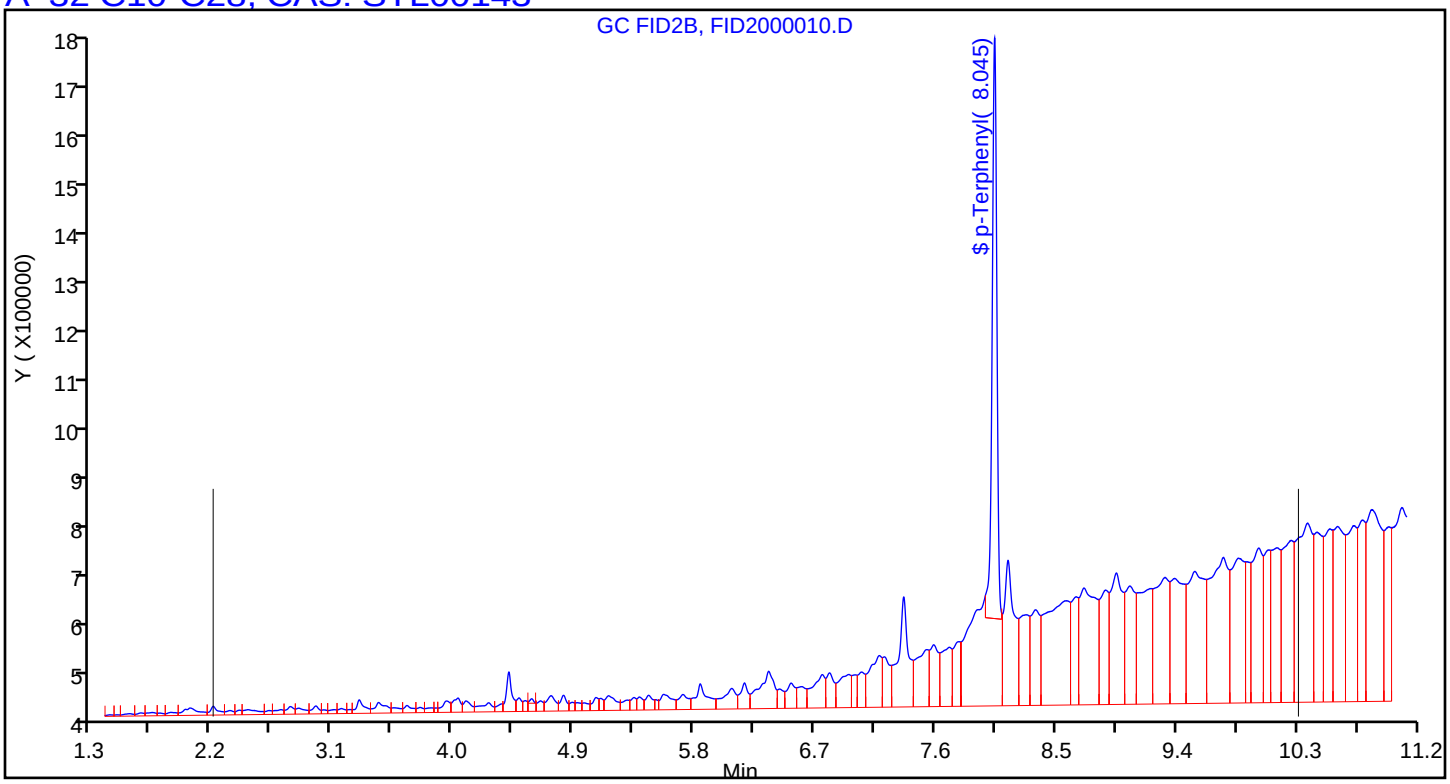
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	21.8	87.20

Report Date: 11-Jan-2019 12:05:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000010.D				
Injection Date:	10-Jan-2019 18:47:24	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-27-F	Lab Sample ID:	720-90640-27		
Client ID:	DG-Q7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	60	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

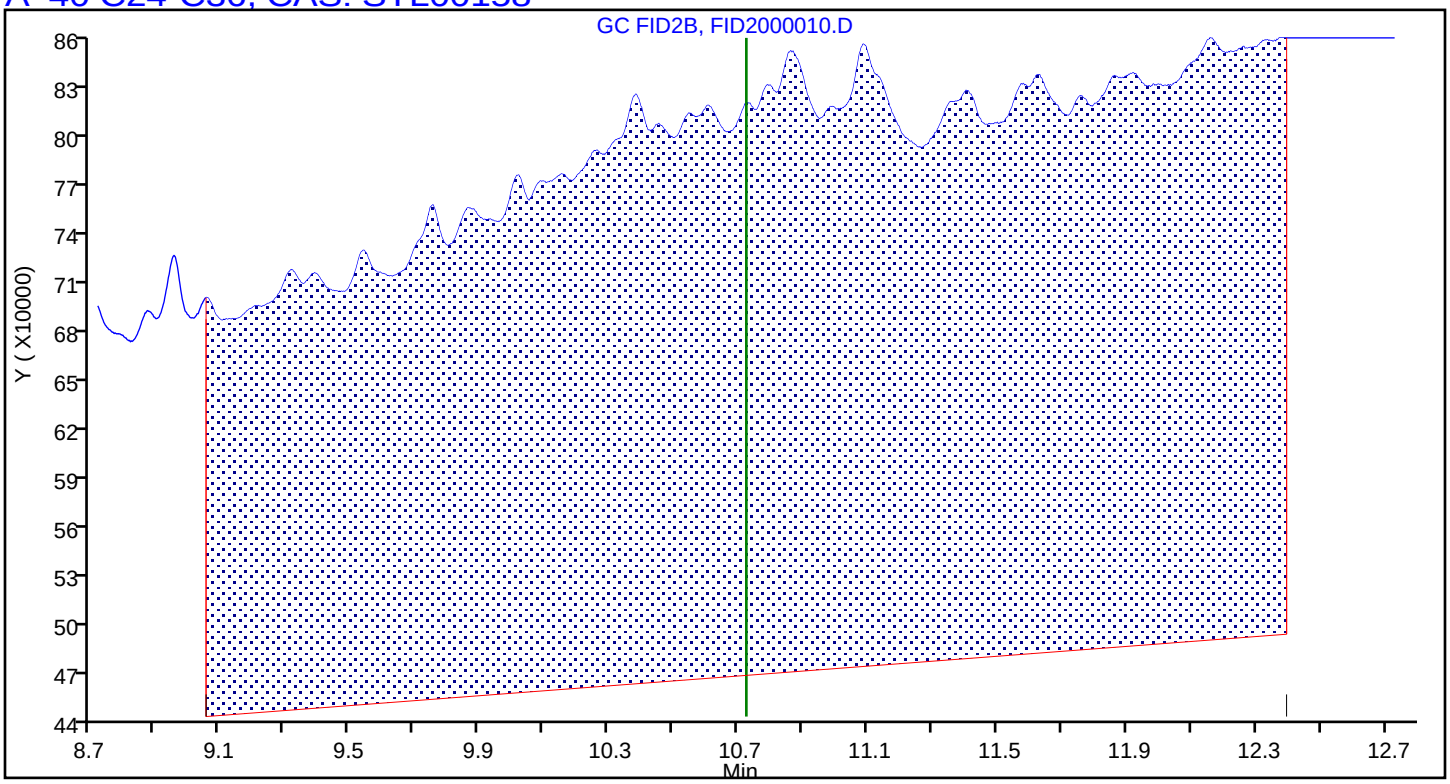


Report Date: 11-Jan-2019 12:05:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000010.D				
Injection Date:	10-Jan-2019 18:47:24	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-27-F	Lab Sample ID:	720-90640-27		
Client ID:	DG-Q7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	60	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

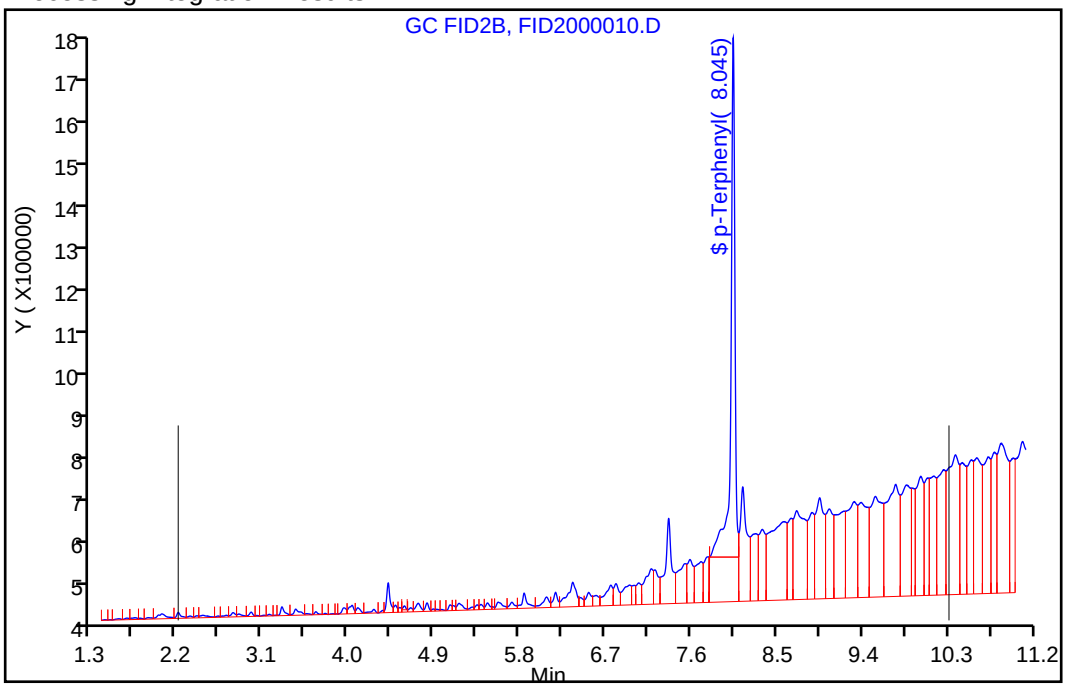
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Injection Date:	10-Jan-2019 18:47:24	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-27-F	Lab Sample ID:	720-90640-27		
Client ID:	DG-Q7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	60	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

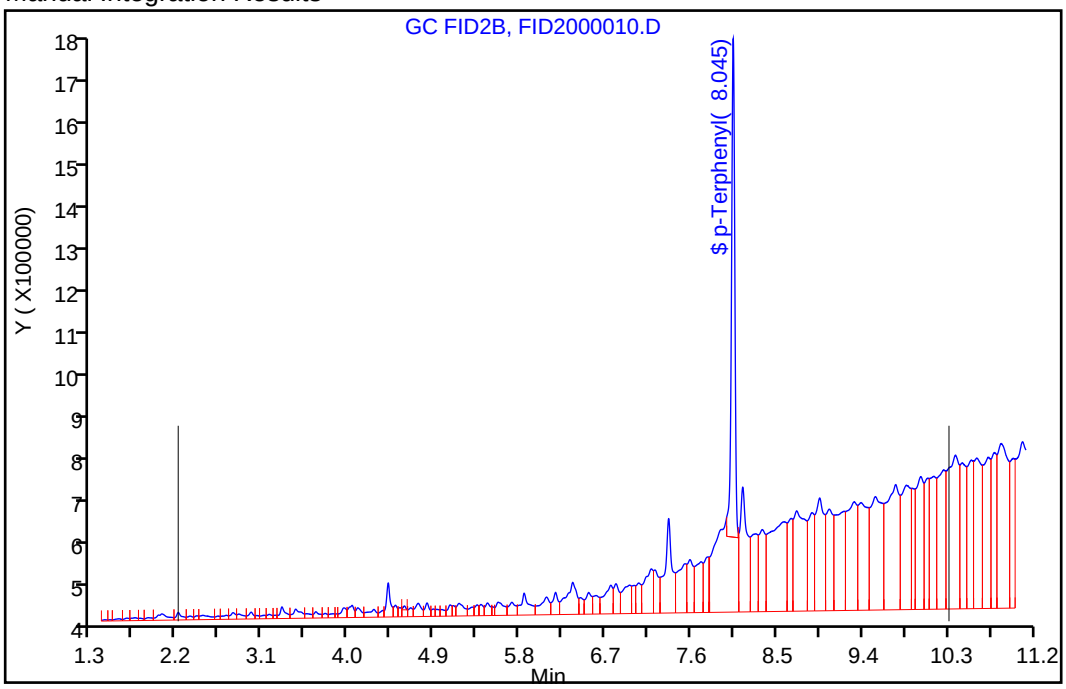
Processing Integration Results

RT: 6.26
Response: 726674315
Amount: 367.4750



Manual Integration Results

RT: 6.26
Response: 917389751
Amount: 463.9187



Reviewer: luj, 11-Jan-2019 12:05:08

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

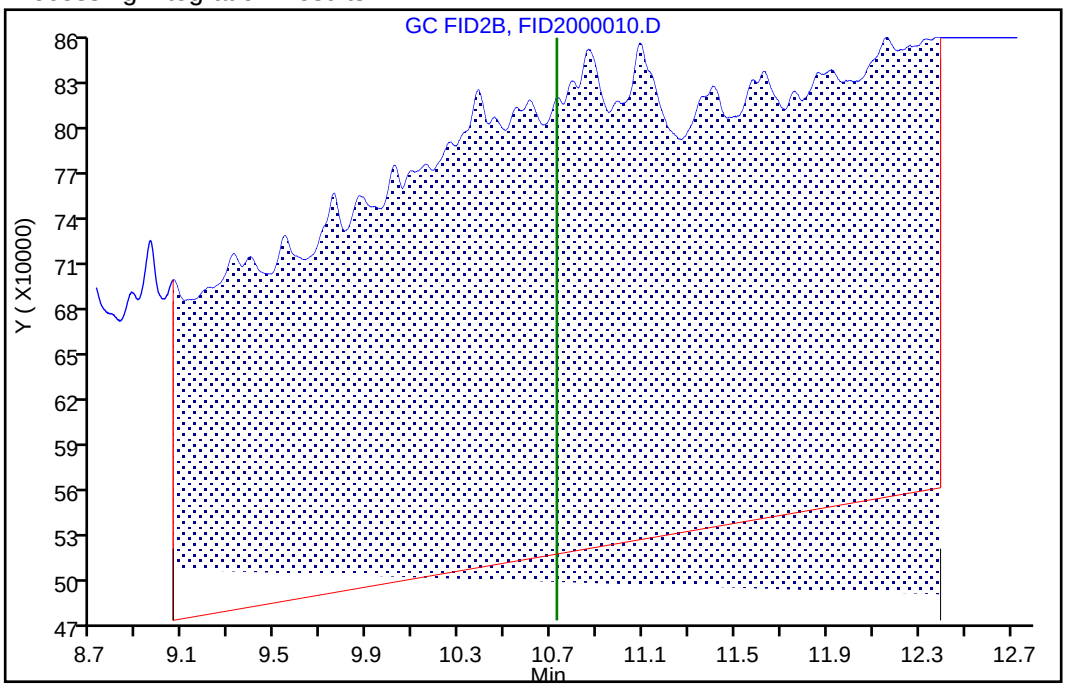
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000010.D				
Injection Date:	10-Jan-2019 18:47:24	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-27-F	Lab Sample ID:	720-90640-27		
Client ID:	DG-Q7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	60	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.725, CAS: STL00158

Signal: 1

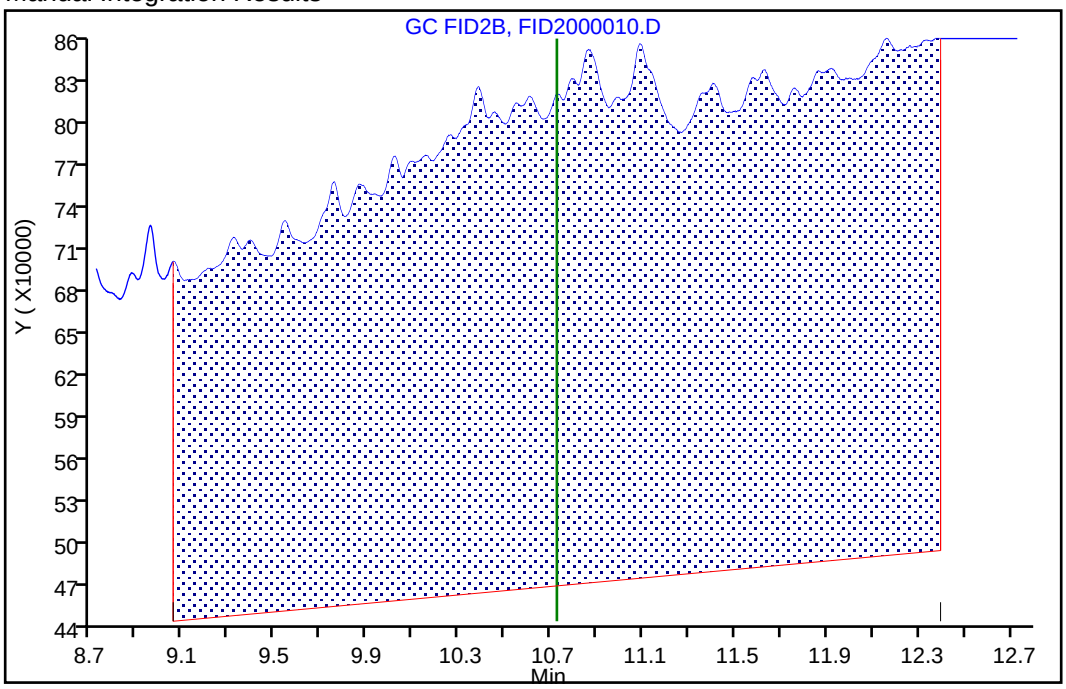
Processing Integration Results

RT: 10.72
Response: 1077048745
Amount: 931.0539



Manual Integration Results

RT: 10.72
Response: 1283326977
Amount: 1109.3710



Reviewer: luj, 11-Jan-2019 12:05:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

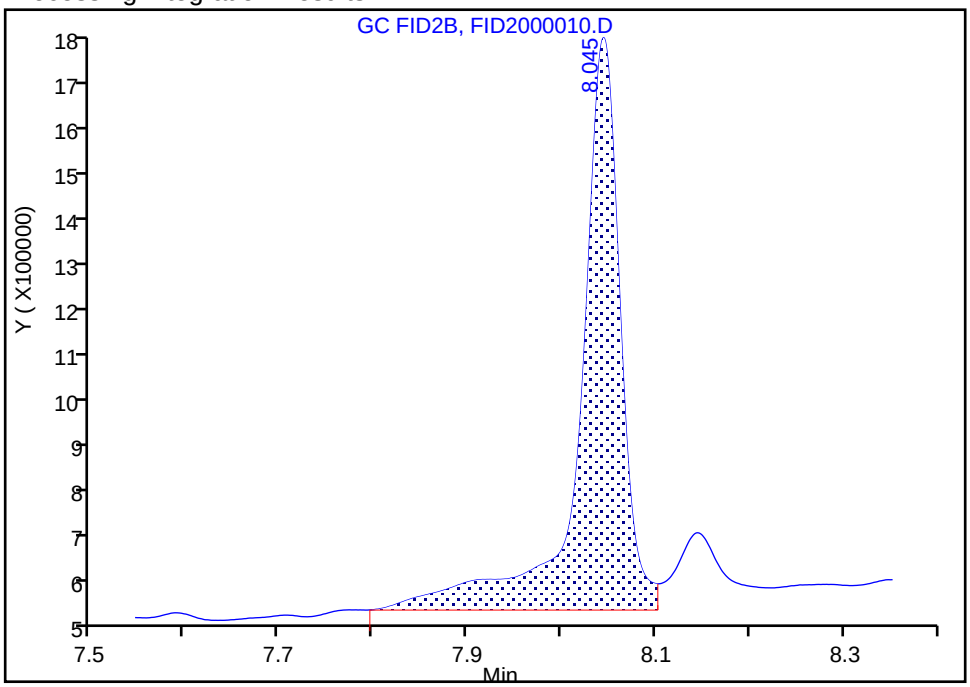
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190110-56021.b\FID2000010.D				
Injection Date:	10-Jan-2019 18:47:24	Instrument ID:	CHDRO6		
Lims ID:	720-90640-E-27-F	Lab Sample ID:	720-90640-27		
Client ID:	DG-Q7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	60	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

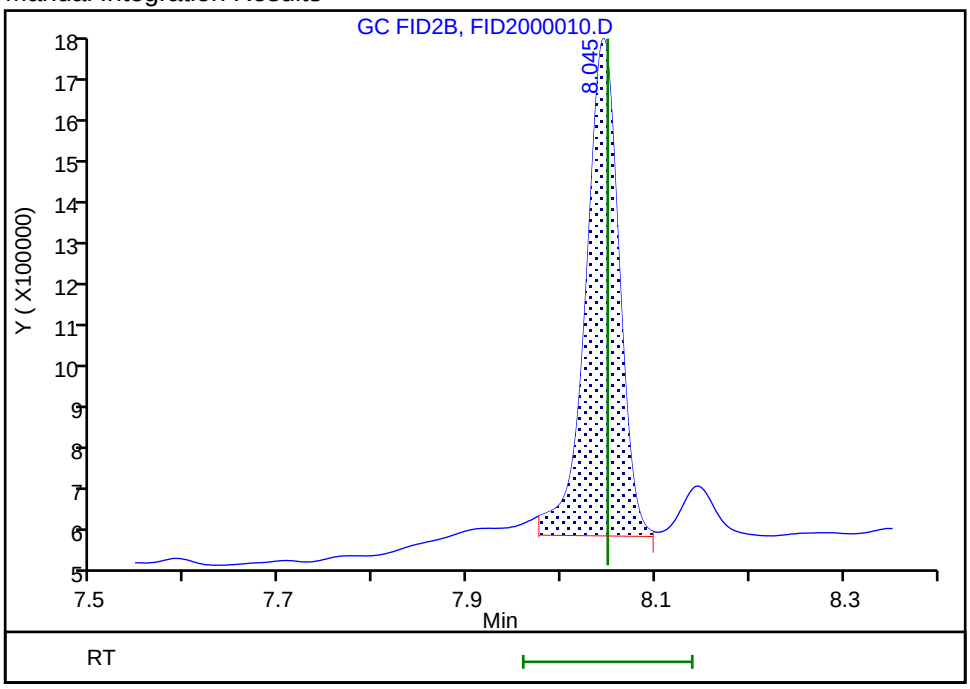
Processing Integration Results

RT: 8.04
Area: 72960655
Amount: 28.263097
Amount Units: mg/L



Manual Integration Results

RT: 8.04
Area: 56277518
Amount: 21.800476
Amount Units: mg/L



Reviewer: luj, 11-Jan-2019 12:05:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_016.d
Lims ID: 720-90640-E-28-C
Client ID: DUP-44
Sample Type: Client
Inject. Date: 10-Jan-2019 22:55:19 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 105 Name: 720-0056024-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:44:21 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:44:21

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.714	2.681	0.033	1825	NC	
	23 n-Decane	3.882	3.896	-0.014	3339	NC	
A	1 C9-C13	4.633	(2.681-6.586)		61129	4.83	
A	21 Stoddard Solvent	4.633	(2.681-6.586)		61129	5.38	
A	57 C10-C12	4.842	(3.896-5.787)		31657	3.22	
	24 Dodecane	5.786	5.787	-0.001	3423	NC	
A	3 C9 - C17	5.985	(2.681-9.289)		309209	21.9	
A	47 C9 - C18	6.273	(2.681-9.866)		547114	48.7	
A	60 C10-C16	6.278	(3.896-8.659)		202227	16.2	
A	15 Kerosene	6.550	(2.681-10.419)		656534	58.4	
A	25 C9-C19	6.550	(2.681-10.419)		656534	46.4	
	26 C13	6.551	6.586	-0.035	8428	NC	
$	27 n-Decanoic Acid (Surr)		7.205			ND	U
A	59 C12-C16	7.223	(5.787-8.659)		173993	17.7	
A	62 C10-C20	7.424	(3.896-10.952)		1309461	133.4	
A	28 C9-C24	7.776	(2.681-12.872)		5664289	576.9	
A	29 C9-C25	7.993	(2.681-13.306)		6783116	690.9	
A	54 C10-C23	8.159	(3.896-12.421)		3422362	348.6	
A	4 C10-C24	8.384	(3.896-12.872)		5653525	575.8	
A	16 C10-C25	8.601	(3.896-13.306)		6772352	689.8	
	45 Hexadecane	8.660	8.659	0.001	8654	NC	
A	14 C10-C26	8.811	(3.896-13.725)		7651270	779.3	
A	67 C12-C22	8.870	(5.787-11.952)		3022884	307.9	
A	5 Diesel	9.208	(3.896-14.519)		10291380	1048.2	
A	32 C10-C28	9.208	(3.896-14.519)		10291380	1048.2	
A	12 Unknown Hydrocarbons	9.208	(3.896-14.519)		10291380	NC	
A	30 C13-C22	9.269	(6.586-11.952)		3009181	306.5	
	44 Heptadecane	9.306	9.289	0.017	50304	NC	
A	31 C12-C24	9.330	(5.787-12.872)		5625291	572.9	
	49 n-Octadecane	9.824	9.866	-0.042	64488	NC	
A	52 Mineral oil	9.957	(2.681-17.233)		18802448	1730.7	
A	9 Crude Oil Range Organics (	9.957	(2.681-17.233)		18802448	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		22507675	NC	
33 C19	10.434	10.419	0.015	219767	NC	
A 64 C13-C28	10.552	(6.586-14.519)		10249443	1043.9	
A 17 C10-C36	10.628	(4.023-17.233)		22493572	2291.0	
A 13 C9-C40	10.728	(2.681-18.775)		21503896	2126.9	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		21503896	NC	
A 58 C16-C24	10.766	(8.659-12.872)		5451298	555.2	
61 icosane		10.952			ND	
A 6 C10-C40	11.335	(3.896-18.775)		21489981	2128.2	
$ 34 p-Terphenyl	11.923	11.923	0.000	96935	8.60	
35 n-Docosane		11.952			ND	
A 18 C12-C40	12.281	(5.787-18.775)		21435591	2129.5	
36 Tricosane	12.430	12.421	0.009	1197007	NC	
A 66 C13-C40	12.680	(6.586-18.775)		20763684	2093.5	
37 n-Tetracosane	12.871	12.872	-0.001	322831	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		14088189	1909.3	
38 C25	13.300	13.306	-0.006	228873	NC	
A 19 C16-C40	13.717	(8.659-18.775)		21157305	2113.8	
46 n-Hexacosane	13.730	13.725	0.005	277351	NC	
A 20 C19-C36	13.826	(10.419-17.233)		15727364	2016.9	
A 55 C23-C32	14.189	(12.421-15.958)		9868620	2291.1	
39 n-Octacosane	14.436	14.519	-0.083	1190253	NC	
65 C29	14.927	14.896	0.031	838967	NC	
A 40 C24-C36	15.053	(12.872-17.233)		12397048	1978.2	M
A 7 Motor Oil	15.053	(12.872-17.233)		12207243	1948.0	
A 50 C25-C36	15.270	(13.306-17.233)		11091014	1871.4	
A 10 C22-C40	15.363	(11.952-18.775)		16741983	1888.8	
A 41 C23-C40	15.598	(12.421-18.775)		15777963	1822.7	
A 8 C24-C40	15.823	(12.872-18.775)		14681156	1754.5	
56 Dotriacontane	15.939	15.958	-0.019	547903	NC	
A 51 C28-C40	16.647	(14.519-18.775)		10206503	1534.1	
A 63 C29-C40	16.835	(14.896-18.775)		9079515	1489.2	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

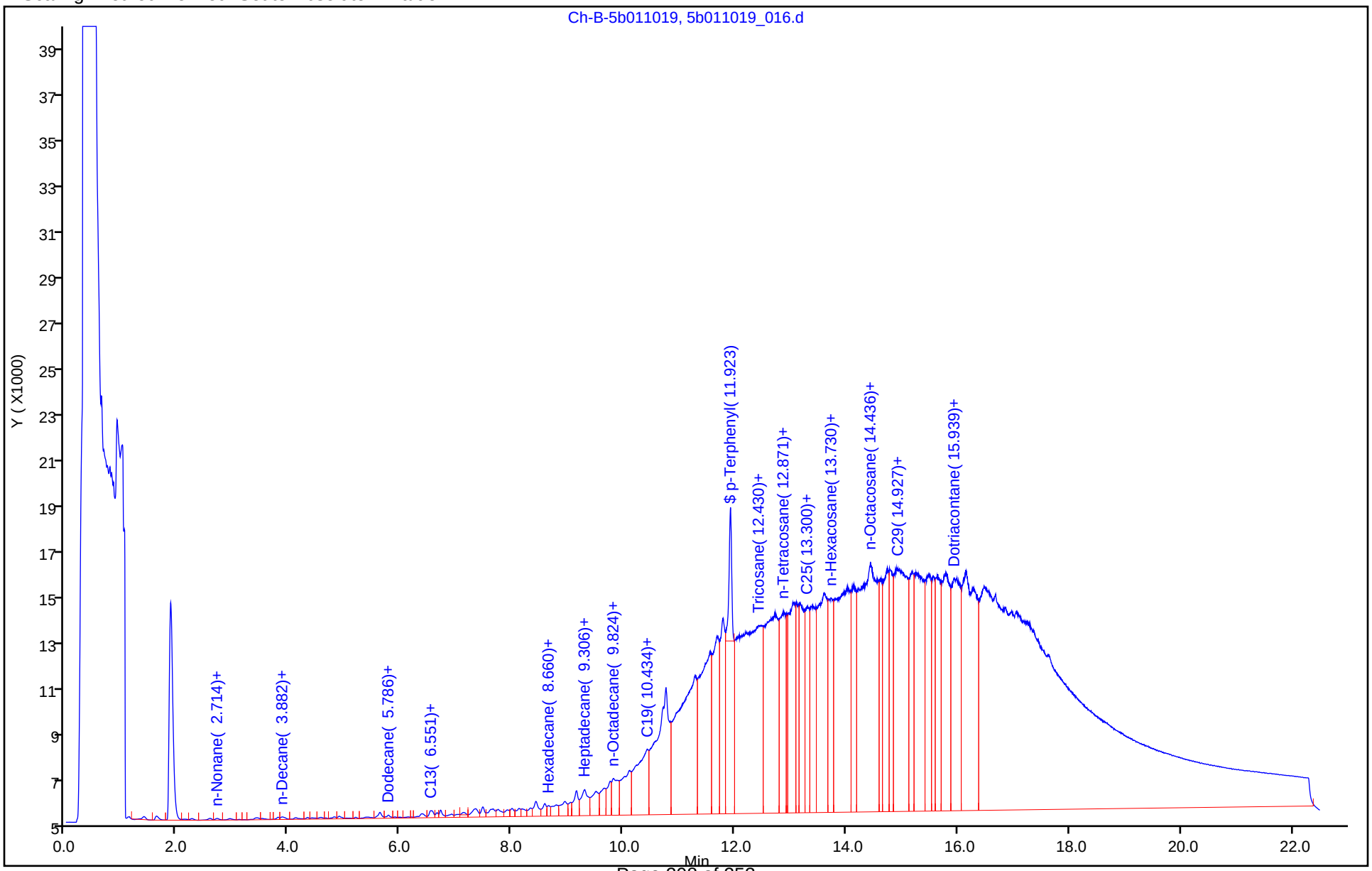
U - Marked Undetected

Report Date: 11-Jan-2019 13:44:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_016.d				
Injection Date:	10-Jan-2019 22:55:19	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-28-C	Lab Sample ID:	720-90640-28	Worklist Smp#:	16
Client ID:	DUP-44				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_016.d
Lims ID: 720-90640-E-28-C
Client ID: DUP-44
Sample Type: Client
Inject. Date: 10-Jan-2019 22:55:19 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 105 Name: 720-0056024-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:44:21 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:44:21

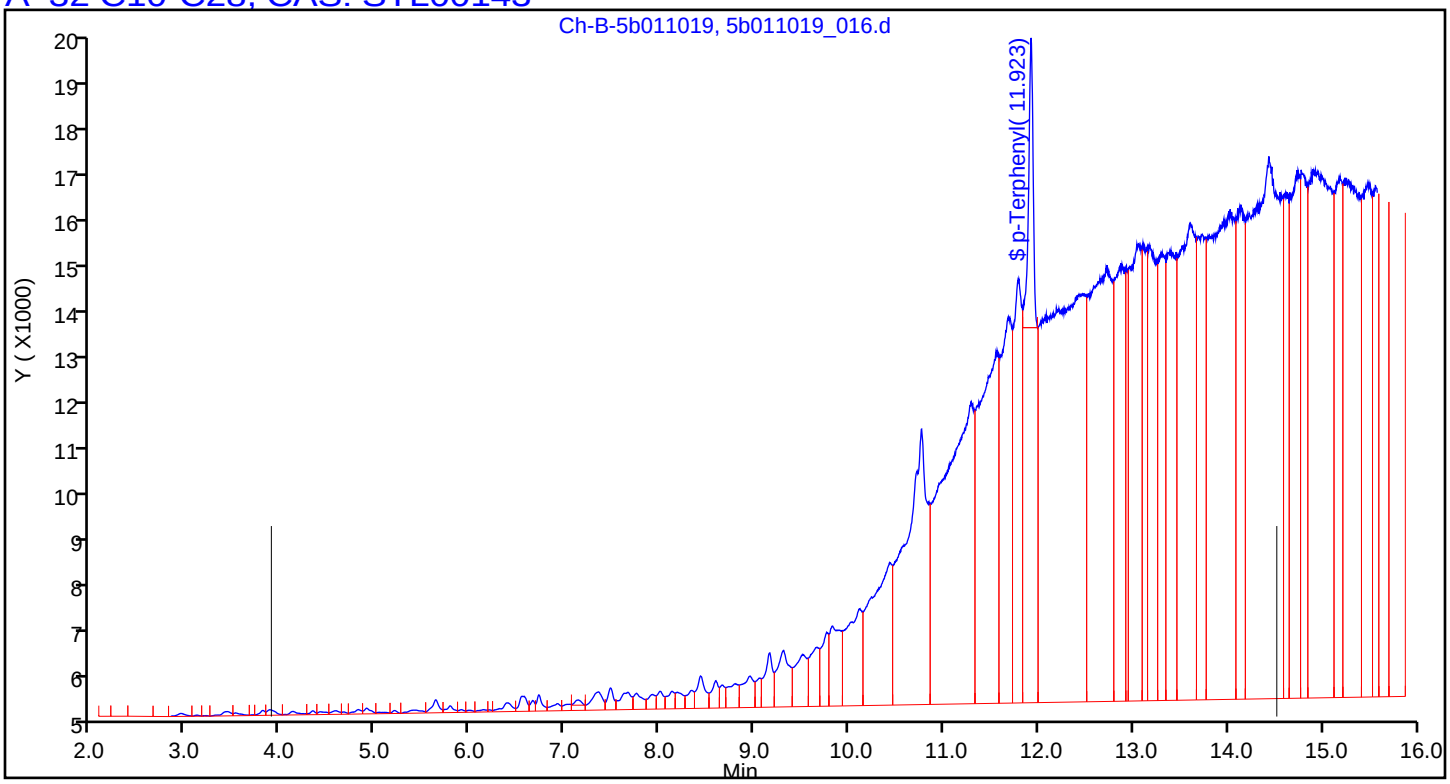
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	8.60	68.83

Report Date: 11-Jan-2019 13:44:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_016.d				
Injection Date:	10-Jan-2019 22:55:19	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-28-C	Lab Sample ID:	720-90640-28		
Client ID:	DUP-44				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

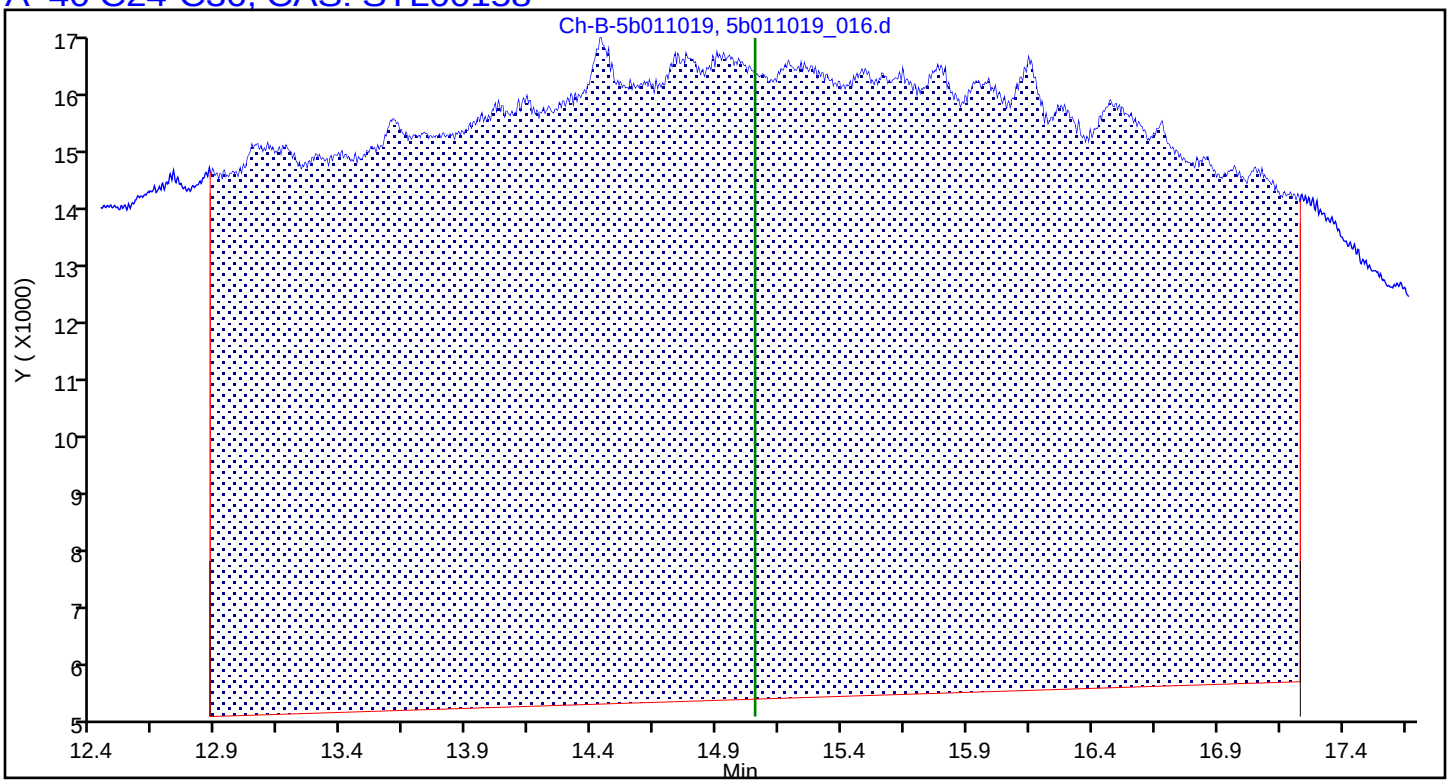


Report Date: 11-Jan-2019 13:44:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_016.d				
Injection Date:	10-Jan-2019 22:55:19	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-28-C	Lab Sample ID:	720-90640-28		
Client ID:	DUP-44				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

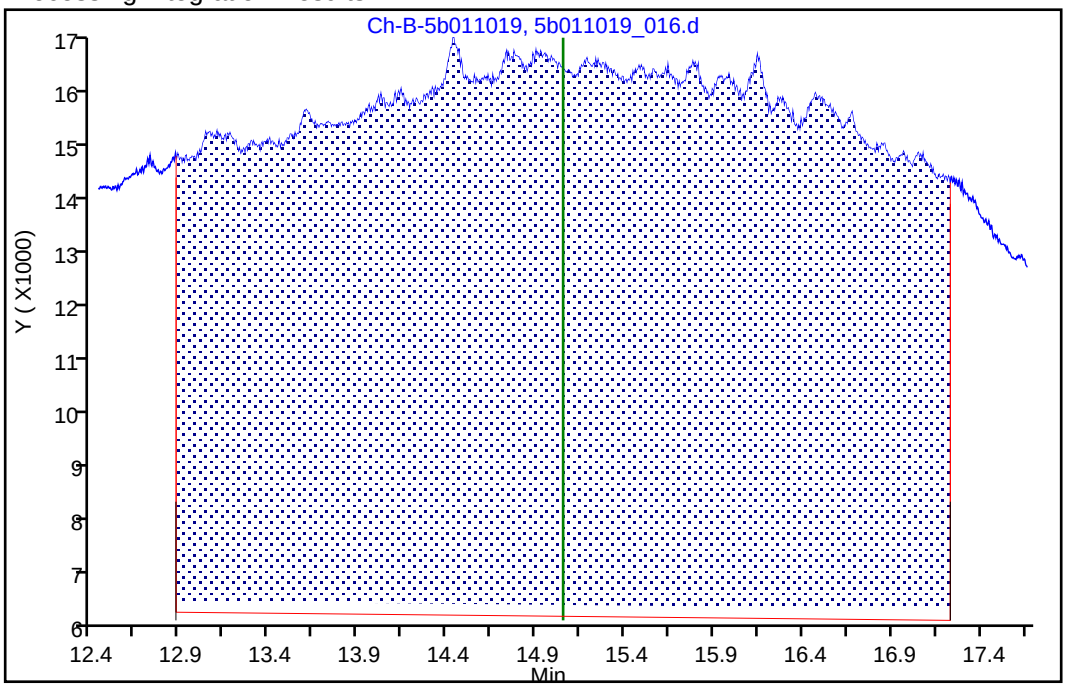
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_016.d				
Injection Date:	10-Jan-2019 22:55:19	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-28-C	Lab Sample ID:	720-90640-28		
Client ID:	DUP-44				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.053, CAS: STL00158

Signal: 1

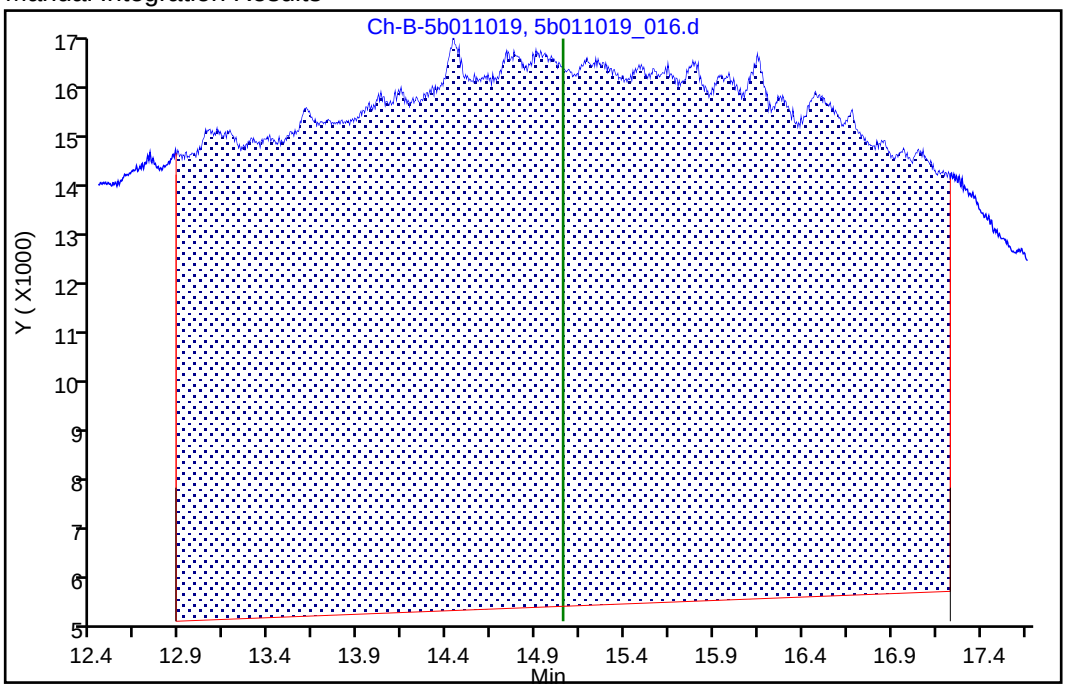
Processing Integration Results

RT: 15.05
Response: 12207243
Amount: 1947.9563



Manual Integration Results

RT: 15.05
Response: 12397048
Amount: 1978.2442



Reviewer: luj, 11-Jan-2019 13:44:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_017.d
Lims ID: 720-90640-E-29-C
Client ID: DG-S7S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 23:25:06 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 106 Name: 720-0056024-017
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:44:38 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:44:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.703	2.681	0.022	297	NC	
	23 n-Decane		3.896			ND	
A	1 C9-C13	4.633	(2.681-6.586)		19347	1.53	
A	21 Stoddard Solvent	4.633	(2.681-6.586)		19347	1.70	
A	57 C10-C12	4.842	(3.896-5.787)		11698	1.19	
	24 Dodecane	5.785	5.787	-0.002	843	NC	
A	3 C9 - C17	5.985	(2.681-9.289)		65548	4.64	
A	47 C9 - C18	6.273	(2.681-9.866)		128863	11.5	
A	60 C10-C16	6.278	(3.896-8.659)		44389	3.56	
A	15 Kerosene	6.550	(2.681-10.419)		182971	16.3	
A	25 C9-C19	6.550	(2.681-10.419)		182971	12.9	
	26 C13	6.541	6.586	-0.045	2740	NC	
$	27 n-Decanoic Acid (Surr)		7.205			ND	U
A	59 C12-C16	7.223	(5.787-8.659)		33534	3.42	
A	62 C10-C20	7.424	(3.896-10.952)		347605	35.4	
A	28 C9-C24	7.776	(2.681-12.872)		1743996	177.6	
A	29 C9-C25	7.993	(2.681-13.306)		2223067	226.4	
A	54 C10-C23	8.159	(3.896-12.421)		1299714	132.4	
A	4 C10-C24	8.384	(3.896-12.872)		1741414	177.4	
A	16 C10-C25	8.601	(3.896-13.306)		2220485	226.2	
	45 Hexadecane	8.664	8.659	0.005	2511	NC	
A	14 C10-C26	8.811	(3.896-13.725)		2756590	280.8	
A	67 C12-C22	8.870	(5.787-11.952)		903991	92.1	
A	5 Diesel	9.208	(3.896-14.519)		3868108	394.0	
A	32 C10-C28	9.208	(3.896-14.519)		3868108	394.0	
A	12 Unknown Hydrocarbons	9.208	(3.896-14.519)		3868108	NC	
A	30 C13-C22	9.269	(6.586-11.952)		900821	91.7	
	44 Heptadecane	9.307	9.289	0.018	14747	NC	
A	31 C12-C24	9.330	(5.787-12.872)		1730559	176.3	
	49 n-Octadecane	9.826	9.866	-0.040	12072	NC	
A	52 Mineral oil	9.957	(2.681-17.233)		9357326	861.3	
A	9 Crude Oil Range Organics (	9.957	(2.681-17.233)		9357326	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		11831494	NC	
33 C19	10.424	10.419	0.005	44468	NC	
A 64 C13-C28	10.552	(6.586-14.519)		3854083	392.5	
A 17 C10-C36	10.643	(4.053-17.233)		11827224	1204.6	
A 13 C9-C40	10.728	(2.681-18.775)		11312144	1118.9	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		11312144	NC	
A 58 C16-C24	10.766	(8.659-12.872)		1697025	172.8	
61 icosane	10.957	10.952	0.005	42560	NC	
A 6 C10-C40	11.335	(3.896-18.775)		11307216	1119.8	
$ 34 p-Terphenyl		11.923			ND	U
35 n-Docosane		11.952			ND	
A 18 C12-C40	12.281	(5.787-18.775)		11286302	1121.3	
36 Tricosane	12.454	12.421	0.033	193874	NC	
A 66 C13-C40	12.680	(6.586-18.775)		11040983	1113.2	
37 n-Tetracosane	12.885	12.872	0.013	221548	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		7874221	1067.2	
38 C25	13.385	13.306	0.079	248512	NC	
A 19 C16-C40	13.717	(8.659-18.775)		11185010	1117.5	
46 n-Hexacosane	13.667	13.725	-0.058	287593	NC	
A 20 C19-C36	13.826	(10.419-17.233)		7179847	920.8	
A 55 C23-C32	14.189	(12.421-15.958)		5066513	1176.3	
39 n-Octacosane	14.449	14.519	-0.070	327361	NC	
65 C29		14.896			ND	
A 40 C24-C36	15.053	(12.872-17.233)		6758638	1078.5	
A 7 Motor Oil	15.053	(12.872-17.233)		6758638	1078.5	
A 50 C25-C36	15.270	(13.306-17.233)		6301433	1063.2	
A 10 C22-C40	15.363	(11.952-18.775)		9393261	1059.7	
A 41 C23-C40	15.598	(12.421-18.775)		9008722	1040.7	
A 8 C24-C40	15.823	(12.872-18.775)		8568388	1024.0	
56 Dotriacontane	15.942	15.958	-0.016	248358	NC	
A 51 C28-C40	16.647	(14.519-18.775)		6512090	978.8	
A 63 C29-C40	16.835	(14.896-18.775)		5870779	962.9	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

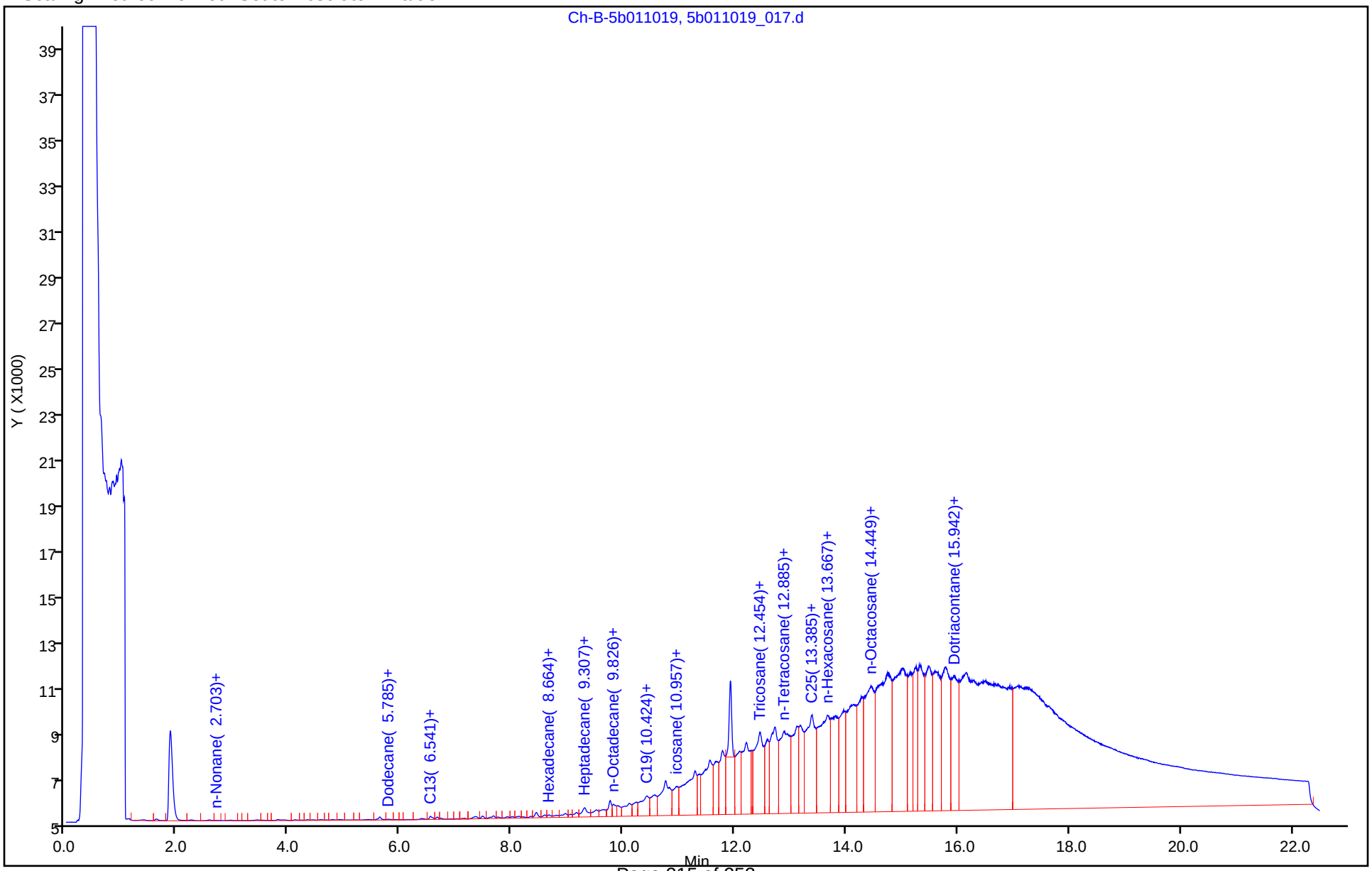
U - Marked Undetected

Report Date: 11-Jan-2019 13:44:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_017.d				
Injection Date:	10-Jan-2019 23:25:06	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-29-C	Lab Sample ID:	720-90640-29	Worklist Smp#:	17
Client ID:	DG-S7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

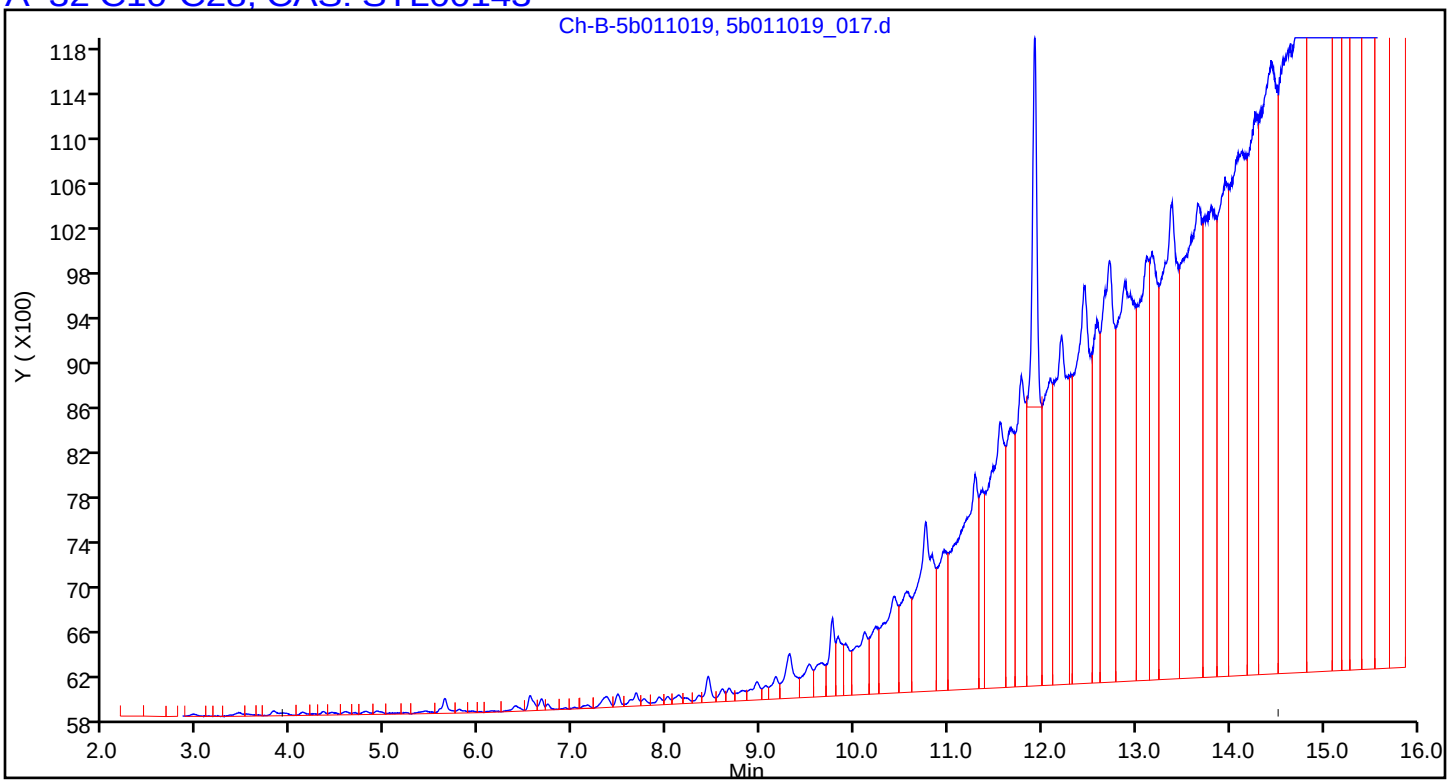


Report Date: 11-Jan-2019 13:44:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_017.d				
Injection Date:	10-Jan-2019 23:25:06	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-29-C	Lab Sample ID:	720-90640-29		
Client ID:	DG-S7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

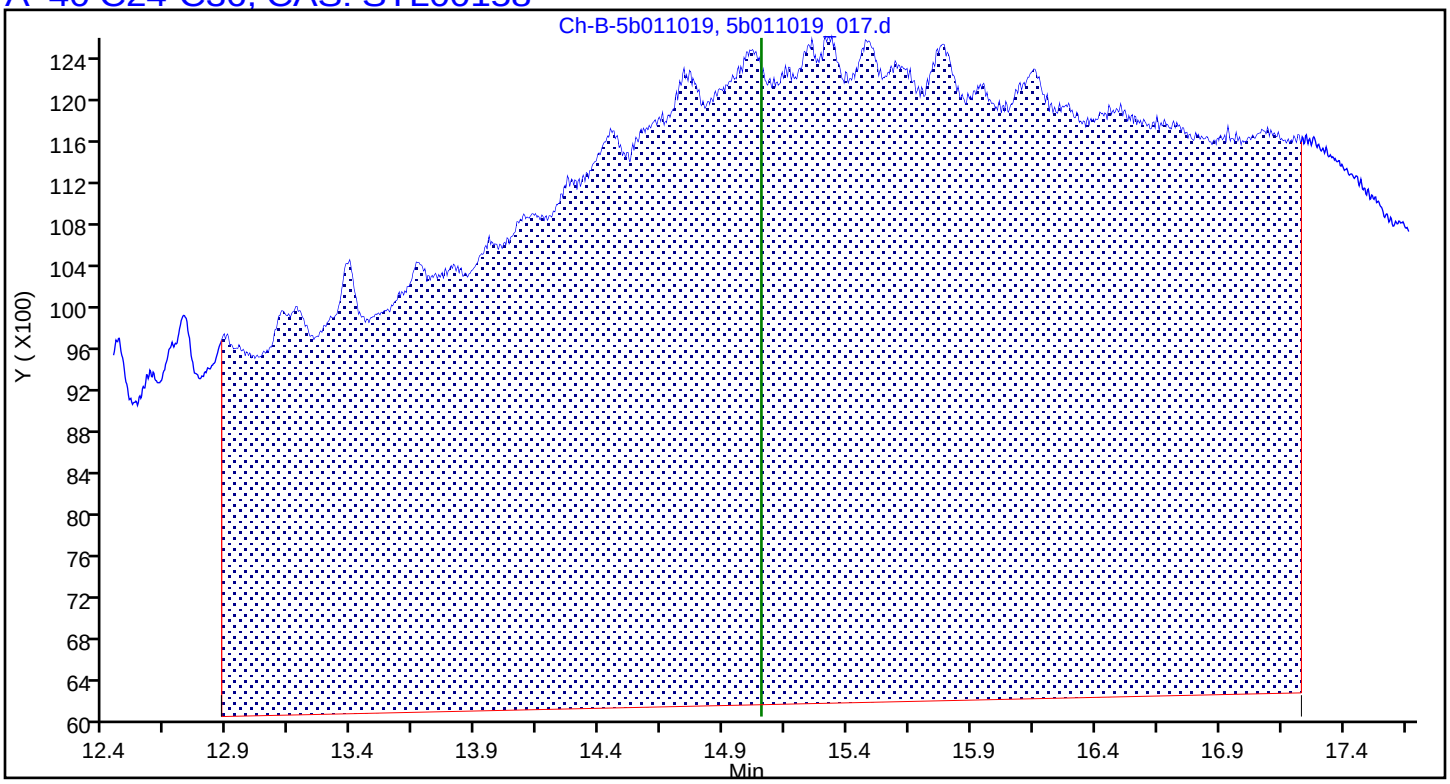


Report Date: 11-Jan-2019 13:44:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_017.d				
Injection Date:	10-Jan-2019 23:25:06	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-29-C	Lab Sample ID:	720-90640-29		
Client ID:	DG-S7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



User Disabled Compound Report

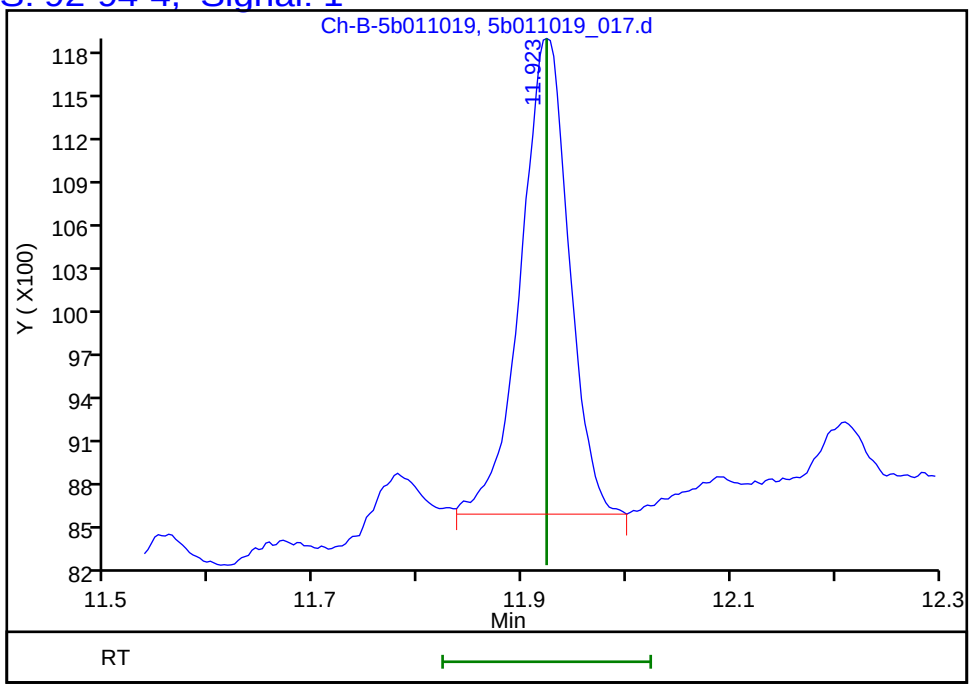
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_017.d

Injection Date:	10-Jan-2019 23:25:06	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-29-C	Lab Sample ID:	720-90640-29		
Client ID:	DG-S7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.92
Response: 52646
Amount: 4.672925



Reviewer: luj, 11-Jan-2019 13:44:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_012.d
Lims ID: 720-90640-E-30-C
Client ID: DG-S7S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 20:58:47 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 141 Name: 720-0056024-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:41:15 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:41:15

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.702	2.681	0.021	3338	NC	
	23 n-Decane	3.899	3.896	0.003	7427	NC	
A	1 C9-C13	4.633	(2.681-6.586)		249419	19.7	
A	21 Stoddard Solvent	4.633	(2.681-6.586)		249419	21.9	
A	57 C10-C12	4.842	(3.896-5.787)		150901	15.4	
	24 Dodecane	5.783	5.787	-0.004	10295	NC	
A	3 C9 - C17	5.985	(2.681-9.289)		799098	56.6	
A	47 C9 - C18	6.273	(2.681-9.866)		1066561	95.0	
A	60 C10-C16	6.278	(3.896-8.659)		545902	43.7	
A	15 Kerosene	6.550	(2.681-10.419)		1265515	112.5	
A	25 C9-C19	6.550	(2.681-10.419)		1265515	89.4	
	26 C13	6.579	6.586	-0.007	8098	NC	
$	27 n-Decanoic Acid (Surr)		7.205			ND	U
A	59 C12-C16	7.223	(5.787-8.659)		405296	41.3	
A	62 C10-C20	7.424	(3.896-10.952)		1831148	186.5	
A	28 C9-C24	7.776	(2.681-12.872)		4542043	462.6	
A	29 C9-C25	7.993	(2.681-13.306)		5469843	557.1	
A	54 C10-C23	8.159	(3.896-12.421)		3836161	390.7	
A	4 C10-C24	8.384	(3.896-12.872)		4504574	458.8	
A	16 C10-C25	8.601	(3.896-13.306)		5432374	553.3	
	45 Hexadecane	8.654	8.659	-0.005	18656	NC	
A	14 C10-C26	8.811	(3.896-13.725)		5842777	595.1	
A	67 C12-C22	8.870	(5.787-11.952)		3068767	312.6	
A	5 Diesel	9.208	(3.896-14.519)		7248401	738.3	
A	32 C10-C28	9.208	(3.896-14.519)		7248401	738.3	
A	12 Unknown Hydrocarbons	9.208	(3.896-14.519)		7248401	NC	
A	30 C13-C22	9.269	(6.586-11.952)		3005521	306.1	
	44 Heptadecane	9.278	9.289	-0.011	83446	NC	
A	31 C12-C24	9.330	(5.787-12.872)		4363968	444.5	
	49 n-Octadecane	9.849	9.866	-0.017	63149	NC	
A	52 Mineral oil	9.957	(2.681-17.233)		11647730	1072.2	
A	9 Crude Oil Range Organics (	9.957	(2.681-17.233)		11647730	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		13161071	NC	
33 C19	10.424	10.419	0.005	169347	NC	
A 64 C13-C28	10.552	(6.586-14.519)		7044549	717.5	
A 17 C10-C36	10.565	(3.896-17.233)		13123602	1336.7	
A 13 C9-C40	10.728	(2.681-18.775)		12668358	1253.0	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		12668358	NC	
A 58 C16-C24	10.766	(8.659-12.872)		3977328	405.1	
61 icosane	10.957	10.952	0.005	140957	NC	
A 6 C10-C40	11.335	(3.896-18.775)		12629555	1250.7	
$ 34 p-Terphenyl	11.920	11.923	-0.003	183668	16.3	
35 n-Docosane		11.952			ND	
A 18 C12-C40	12.281	(5.787-18.775)		12480129	1239.9	
36 Tricosane	12.422	12.421	0.001	216988	NC	
A 66 C13-C40	12.680	(6.586-18.775)		11628532	1172.4	
37 n-Tetracosane	12.876	12.872	0.004	322160	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		7232248	980.2	
38 C25	13.302	13.306	-0.004	286300	NC	
A 19 C16-C40	13.717	(8.659-18.775)		12059630	1204.8	
46 n-Hexacosane	13.727	13.725	0.002	191384	NC	
A 20 C19-C36	13.826	(10.419-17.233)		9305903	1193.4	
A 55 C23-C32	14.189	(12.421-15.958)		5317059	1234.4	
39 n-Octacosane	14.529	14.519	0.010	141686	NC	
65 C29	14.899	14.896	0.003	244582	NC	
A 40 C24-C36	15.053	(12.872-17.233)		6700658	1069.2	M
A 7 Motor Oil	15.053	(12.872-17.233)		6207820	990.6	
A 50 C25-C36	15.270	(13.306-17.233)		5611832	946.9	
A 10 C22-C40	15.363	(11.952-18.775)		7980091	900.3	
A 41 C23-C40	15.598	(12.421-18.775)		7586981	876.5	
A 8 C24-C40	15.823	(12.872-18.775)		6998372	836.4	
56 Dotriacontane	16.027	15.958	0.069	123085	NC	
A 51 C28-C40	16.647	(14.519-18.775)		4536789	681.9	
A 63 C29-C40	16.835	(14.896-18.775)		3905252	640.5	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

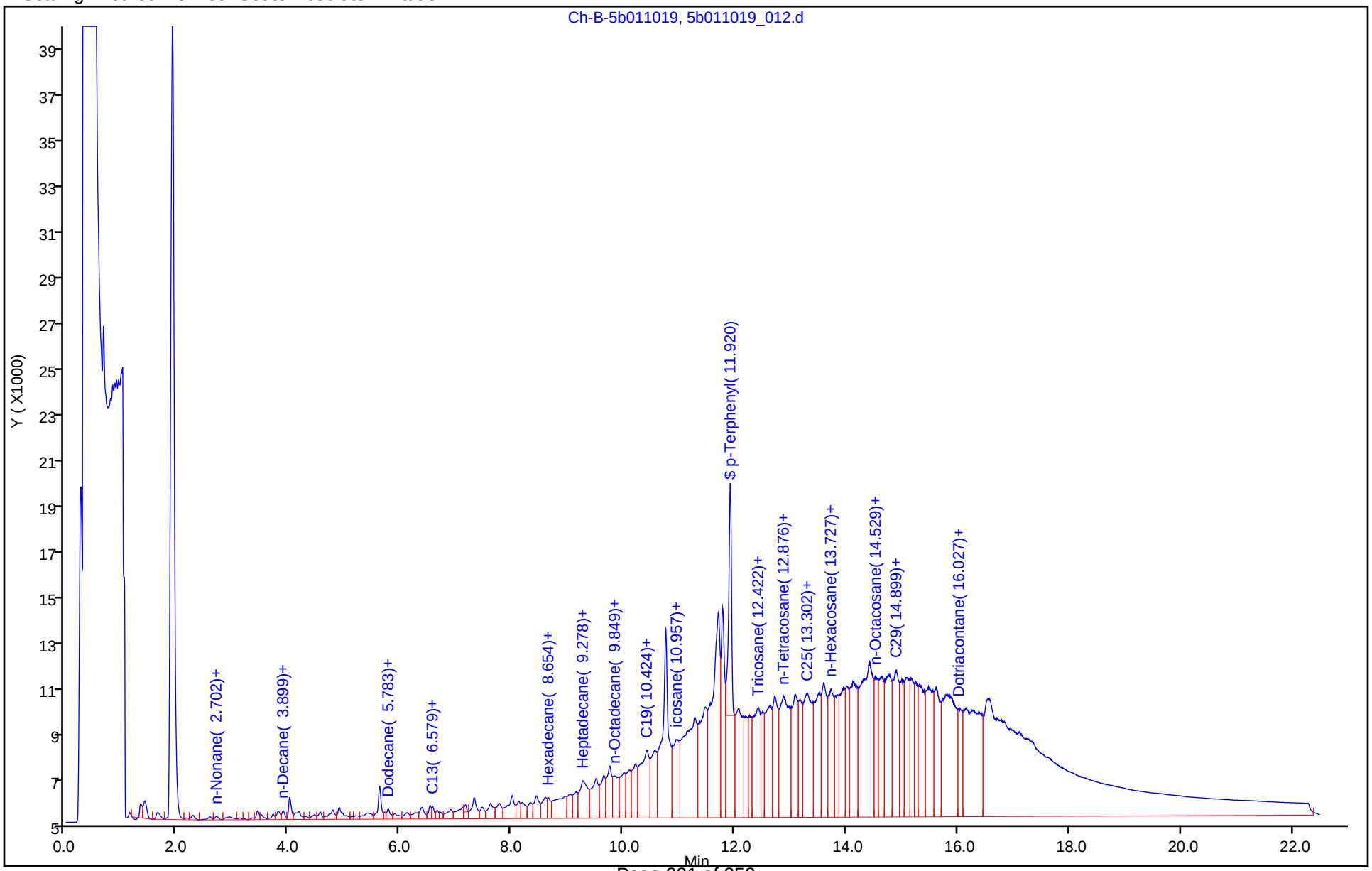
U - Marked Undetected

Report Date: 11-Jan-2019 13:41:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_012.d				
Injection Date:	10-Jan-2019 20:58:47	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-30-C	Lab Sample ID:	720-90640-30	Worklist Smp#:	12
Client ID:	DG-S7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_012.d
Lims ID: 720-90640-E-30-C
Client ID: DG-S7S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 20:58:47 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 141 Name: 720-0056024-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:41:15 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:41:15

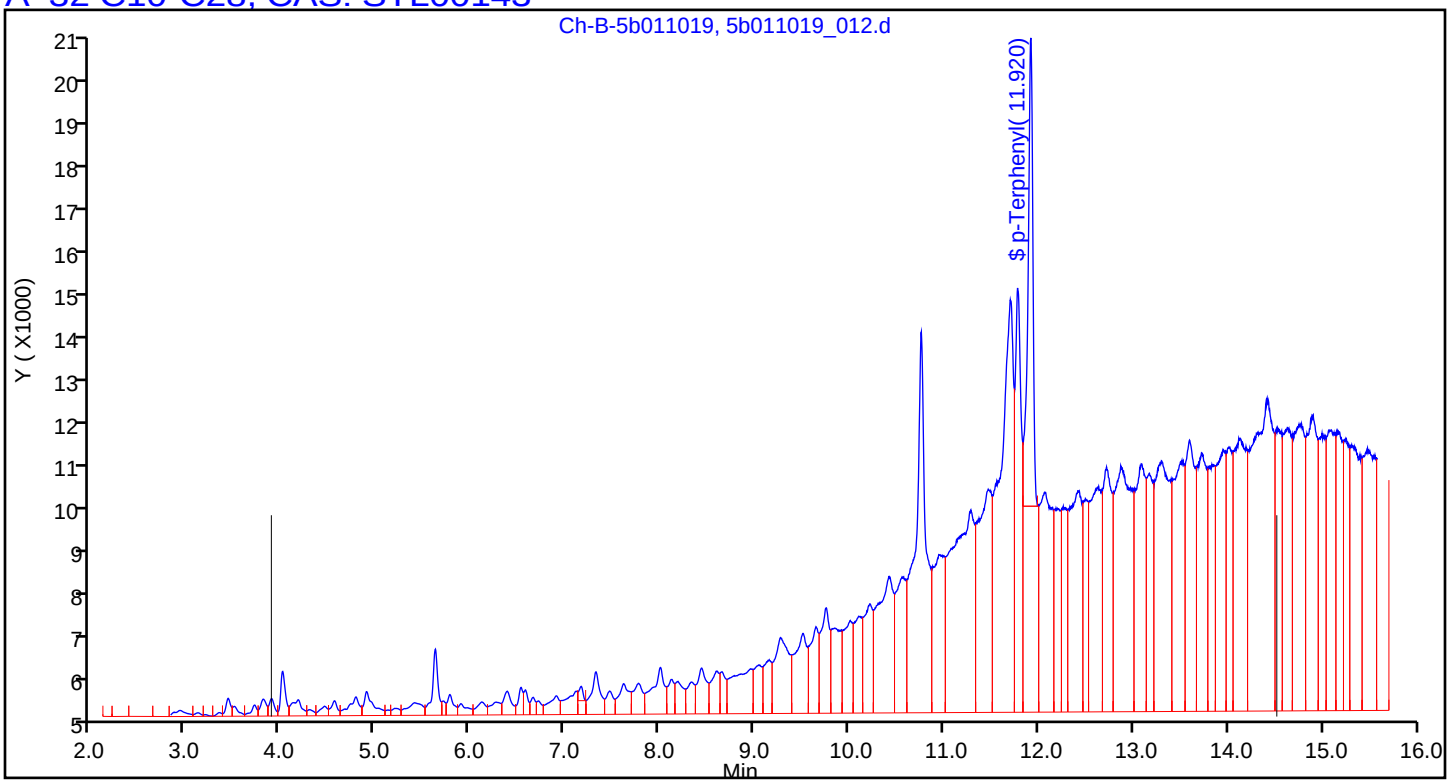
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	16.3	65.21

Report Date: 11-Jan-2019 13:41:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_012.d				
Injection Date:	10-Jan-2019 20:58:47	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-30-C	Lab Sample ID:	720-90640-30		
Client ID:	DG-S7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

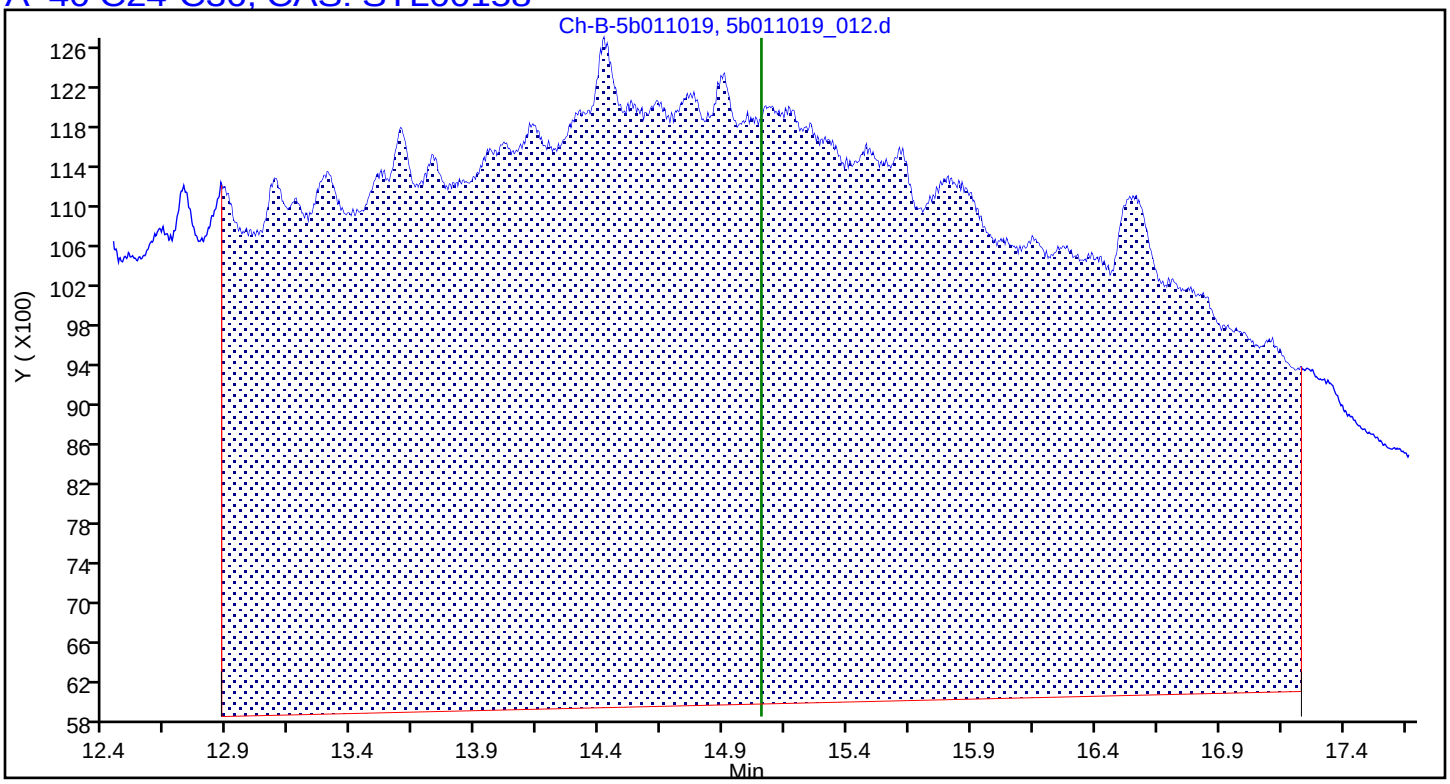


Report Date: 11-Jan-2019 13:41:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_012.d				
Injection Date:	10-Jan-2019 20:58:47	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-30-C	Lab Sample ID:	720-90640-30		
Client ID:	DG-S7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

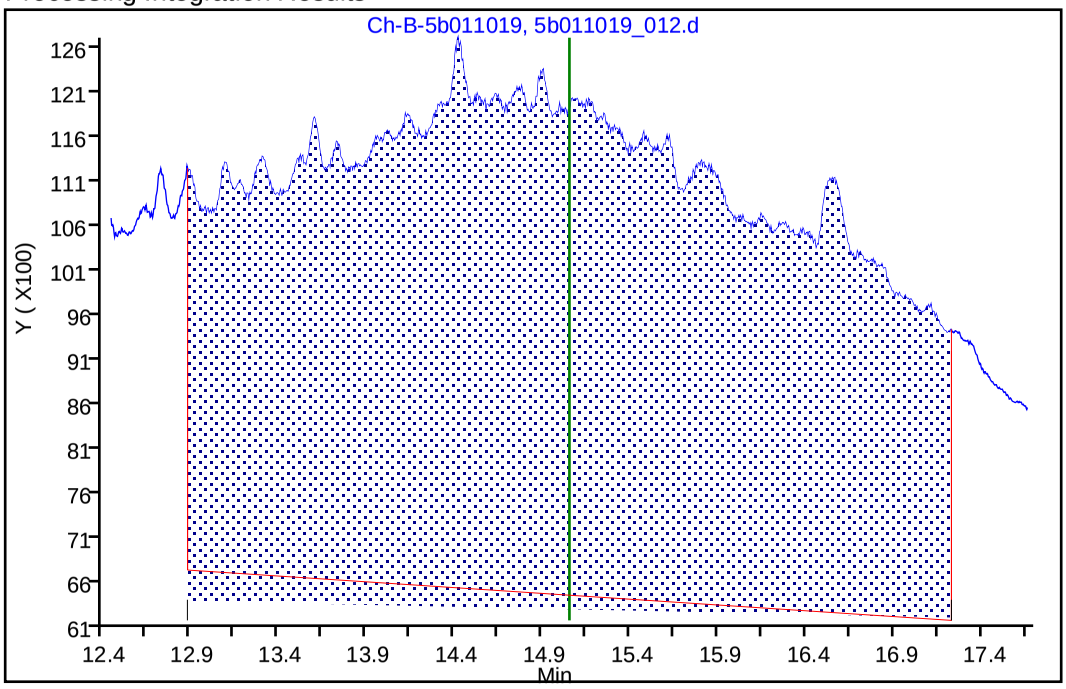
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_012.d				
Injection Date:	10-Jan-2019 20:58:47	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-30-C	Lab Sample ID:	720-90640-30		
Client ID:	DG-S7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.053, CAS: STL00158

Signal: 1

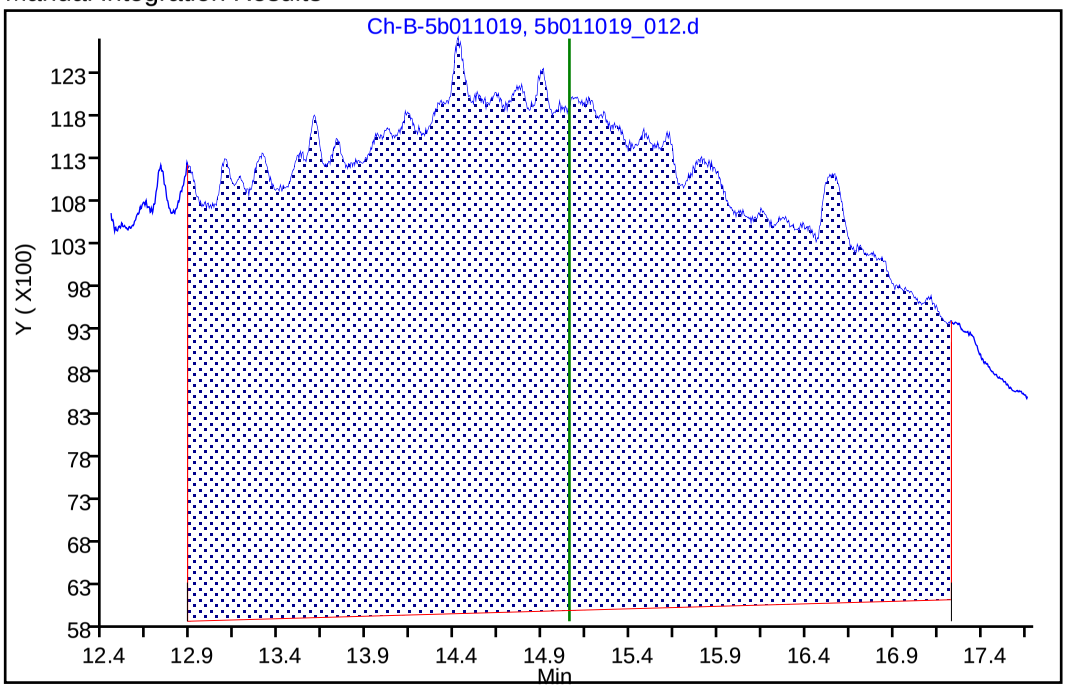
Processing Integration Results

RT: 15.05
Response: 6207820
Amount: 990.6055



Manual Integration Results

RT: 15.05
Response: 6700658
Amount: 1069.2495



Reviewer: luj, 11-Jan-2019 13:41:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_014.d
Lims ID: 720-90640-E-31-C
Client ID: DG-U7S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 21:57:04 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 103 Name: 720-0056024-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:42:55 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:42:55

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.706	2.681	0.025	655	NC	
23 n-Decane	3.923	3.896	0.027	1185	NC	
A 1 C9-C13	4.633	(2.681-6.586)		25198	1.99	
A 21 Stoddard Solvent	4.633	(2.681-6.586)		25198	2.22	
A 57 C10-C12	4.842	(3.896-5.787)		15083	1.54	
24 Dodecane	5.781	5.787	-0.006	567	NC	
A 3 C9 - C17	5.985	(2.681-9.289)		65434	4.63	
A 47 C9 - C18	6.273	(2.681-9.866)		112289	10.0	
A 60 C10-C16	6.278	(3.896-8.659)		47442	3.80	
A 15 Kerosene	6.550	(2.681-10.419)		144806	12.9	
A 25 C9-C19	6.550	(2.681-10.419)		144806	10.2	
26 C13	6.562	6.586	-0.024	1541	NC	
$ 27 n-Decanoic Acid (Surr)		7.205			ND	U
A 59 C12-C16	7.223	(5.787-8.659)		32926	3.35	
A 62 C10-C20	7.424	(3.896-10.952)		222426	22.7	
A 28 C9-C24	7.776	(2.681-12.872)		615356	62.7	
A 29 C9-C25	7.993	(2.681-13.306)		684113	69.7	
A 54 C10-C23	8.159	(3.896-12.421)		487743	49.7	
A 4 C10-C24	8.384	(3.896-12.872)		608915	62.0	
A 16 C10-C25	8.601	(3.896-13.306)		677672	69.0	
45 Hexadecane	8.658	8.659	-0.001	2067	NC	
A 14 C10-C26	8.811	(3.896-13.725)		840411	85.6	
A 67 C12-C22	8.870	(5.787-11.952)		394208	40.2	
A 5 Diesel	9.208	(3.896-14.519)		1120123	114.1	
A 32 C10-C28	9.208	(3.896-14.519)		1120123	114.1	
A 12 Unknown Hydrocarbons	9.208	(3.896-14.519)		1120123	NC	
A 30 C13-C22	9.269	(6.586-11.952)		391508	39.9	
44 Heptadecane	9.301	9.289	0.012	11335	NC	
A 31 C12-C24	9.330	(5.787-12.872)		594399	60.5	
49 n-Octadecane	9.847	9.866	-0.019	21412	NC	
A 52 Mineral oil	9.957	(2.681-17.233)		3612347	332.5	
A 9 Crude Oil Range Organics (	9.957	(2.681-17.233)		3612347	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		4522586	NC	
33 C19	10.419	10.419	0.000	12677	NC	
A 64 C13-C28	10.552	(6.586-14.519)		1102907	112.3	
A 17 C10-C36	10.565	(3.896-17.233)		4516145	460.0	
A 13 C9-C40	10.728	(2.681-18.775)		4505751	445.7	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		4505751	NC	
A 58 C16-C24	10.766	(8.659-12.872)		563540	57.4	
61 icosane	10.956	10.952	0.004	17054	NC	
A 6 C10-C40	11.335	(3.896-18.775)		4498412	445.5	
$ 34 p-Terphenyl	11.923	11.923	0.000	277114	24.6	
35 n-Docosane		11.952			ND	
A 18 C12-C40	12.281	(5.787-18.775)		4474890	444.6	
36 Tricosane	12.423	12.421	0.002	28075	NC	
A 66 C13-C40	12.680	(6.586-18.775)		4280107	431.5	
37 n-Tetracosane	12.872	12.872	0.000	32252	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		2897039	392.6	
38 C25	13.307	13.306	0.001	36093	NC	
A 19 C16-C40	13.717	(8.659-18.775)		4392525	438.8	
46 n-Hexacosane	13.722	13.725	-0.003	33867	NC	
A 20 C19-C36	13.826	(10.419-17.233)		2403807	308.3	
A 55 C23-C32	14.189	(12.421-15.958)		1478986	343.4	
39 n-Octacosane	14.525	14.519	0.006	40750	NC	
65 C29	14.895	14.896	-0.001	73664	NC	
A 40 C24-C36	15.053	(12.872-17.233)		2499375	398.8	
A 7 Motor Oil	15.053	(12.872-17.233)		2499375	398.8	
A 50 C25-C36	15.270	(13.306-17.233)		2398283	404.7	
A 10 C22-C40	15.363	(11.952-18.775)		3202581	361.3	
A 41 C23-C40	15.598	(12.421-18.775)		3387755	391.4	
A 8 C24-C40	15.823	(12.872-18.775)		3298300	394.2	
56 Dotriacontane	15.921	15.958	-0.037	91001	NC	
A 51 C28-C40	16.647	(14.519-18.775)		2755003	414.1	
A 63 C29-C40	16.835	(14.896-18.775)		2567577	421.1	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

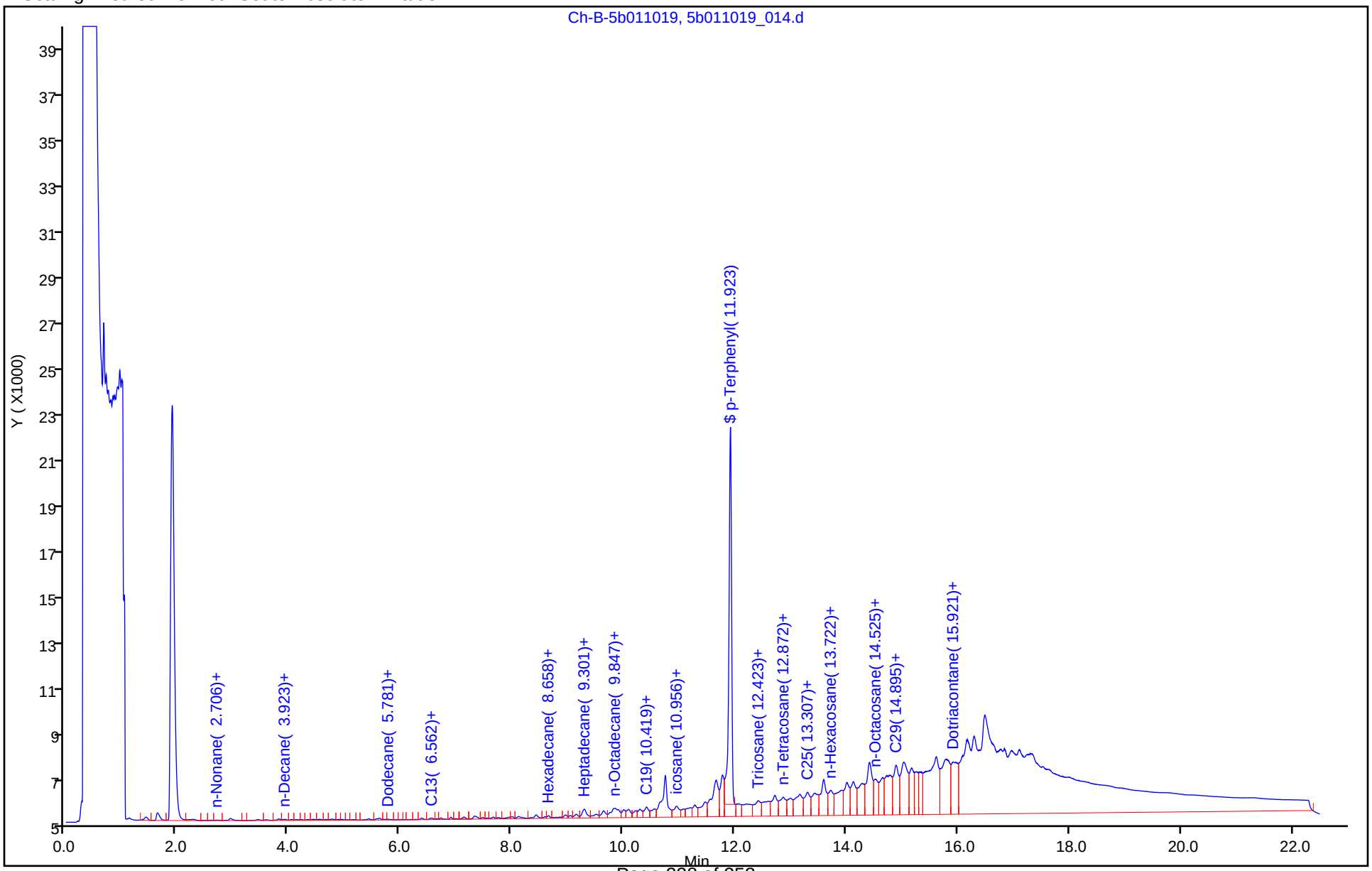
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Report Date: 11-Jan-2019 13:42:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_014.d				
Injection Date:	10-Jan-2019 21:57:04	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-31-C	Lab Sample ID:	720-90640-31	Worklist Smp#:	14
Client ID:	DG-U7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_014.d
Lims ID: 720-90640-E-31-C
Client ID: DG-U7S-0.5-1
Sample Type: Client
Inject. Date: 10-Jan-2019 21:57:04 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 103 Name: 720-0056024-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:42:55 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:42:55

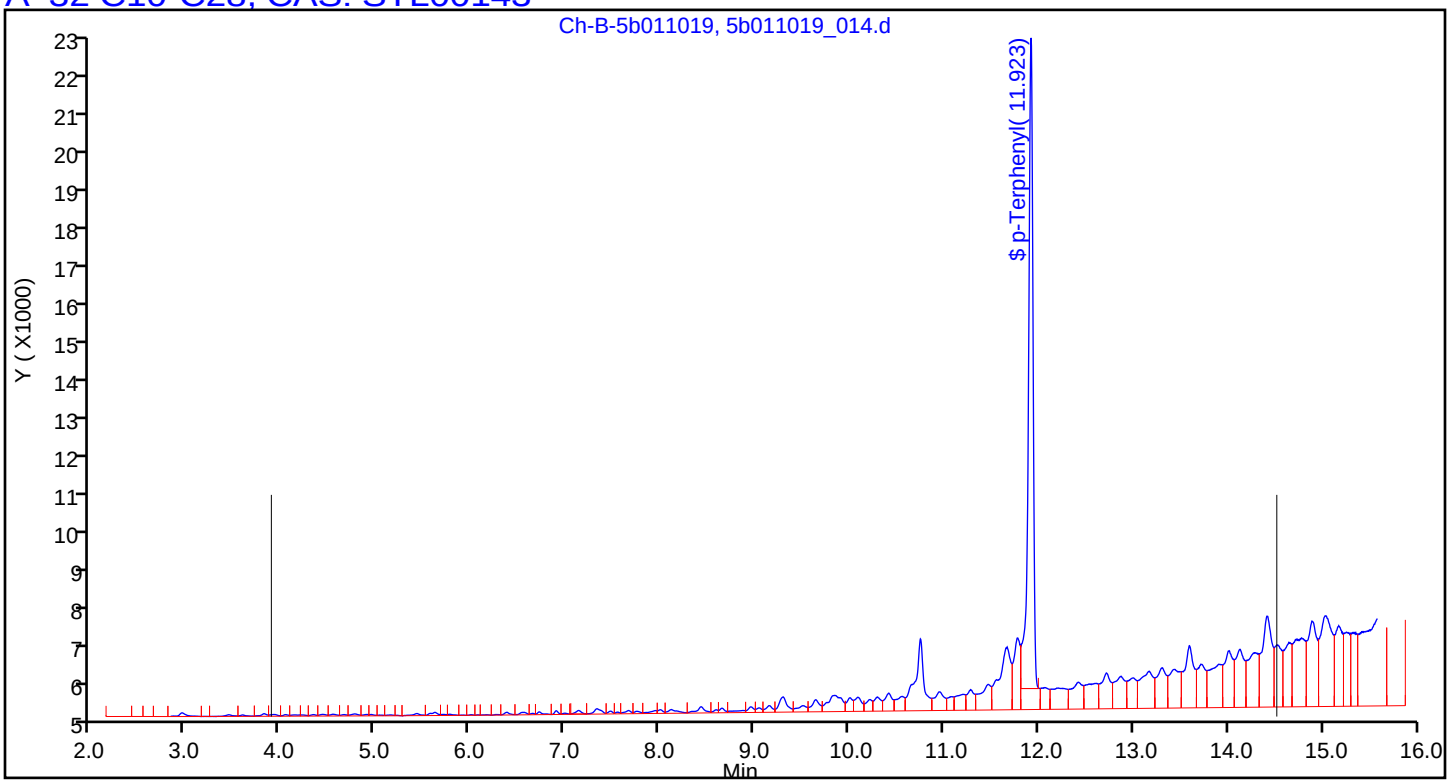
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.6	98.39

Report Date: 11-Jan-2019 13:42:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_014.d				
Injection Date:	10-Jan-2019 21:57:04	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-31-C	Lab Sample ID:	720-90640-31		
Client ID:	DG-U7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

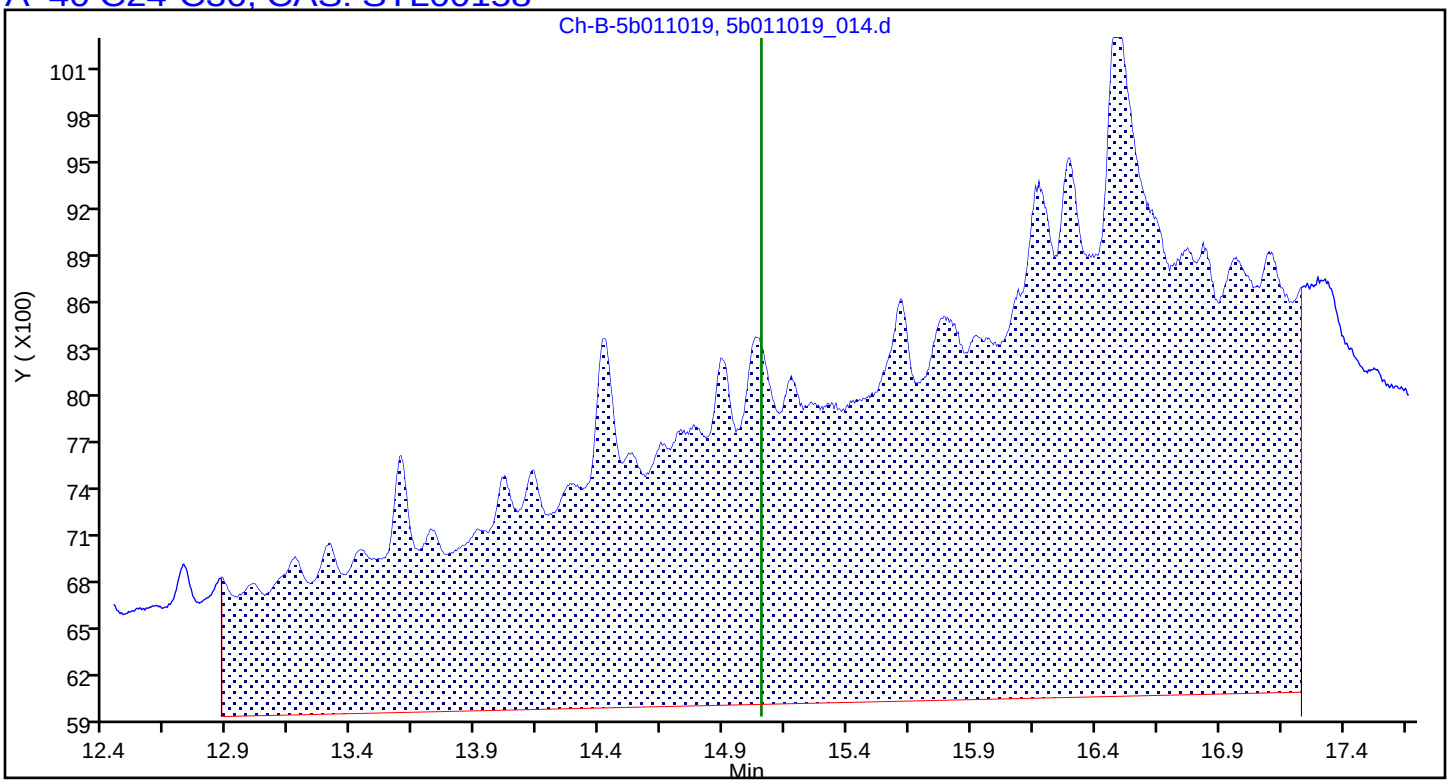


Report Date: 11-Jan-2019 13:42:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_014.d				
Injection Date:	10-Jan-2019 21:57:04	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-31-C	Lab Sample ID:	720-90640-31		
Client ID:	DG-U7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_007.d
Lims ID: 720-90640-E-32-C
Client ID: DG-U7S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 18:32:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0056024-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:29:35 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:29:35

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.681	2.681	0.000	1055	NC	
	23 n-Decane	3.894	3.896	-0.002	2320	NC	
A	1 C9-C13	4.633	(2.681-6.586)		88602	7.00	
A	21 Stoddard Solvent	4.633	(2.681-6.586)		88602	7.79	
A	57 C10-C12	4.842	(3.896-5.787)		51691	5.26	
	24 Dodecane	5.772	5.787	-0.015	4385	NC	
A	3 C9 - C17	5.985	(2.681-9.289)		271968	19.3	
A	47 C9 - C18	6.273	(2.681-9.866)		381631	34.0	
A	60 C10-C16	6.278	(3.896-8.659)		219580	17.6	
A	15 Kerosene	6.550	(2.681-10.419)		465900	41.4	
A	25 C9-C19	6.550	(2.681-10.419)		465900	32.9	
	26 C13		6.586			ND	
$	27 n-Decanoic Acid (Surr)		7.205			ND	U
A	59 C12-C16	7.223	(5.787-8.659)		172274	17.5	
A	62 C10-C20	7.424	(3.896-10.952)		597004	60.8	
A	28 C9-C24	7.776	(2.681-12.872)		1368998	139.4	
A	29 C9-C25	7.993	(2.681-13.306)		1532072	156.0	
A	54 C10-C23	8.159	(3.896-12.421)		1135889	115.7	
A	4 C10-C24	8.384	(3.896-12.872)		1355034	138.0	
A	16 C10-C25	8.601	(3.896-13.306)		1518108	154.6	
	45 Hexadecane	8.650	8.659	-0.009	10984	NC	
A	14 C10-C26	8.811	(3.896-13.725)		1714815	174.7	
A	67 C12-C22	8.870	(5.787-11.952)		869861	88.6	
A	5 Diesel	9.208	(3.896-14.519)		2111131	215.0	
A	32 C10-C28	9.208	(3.896-14.519)		2111131	215.0	
A	12 Unknown Hydrocarbons	9.208	(3.896-14.519)		2111131	NC	
A	30 C13-C22	9.269	(6.586-11.952)		850862	86.7	
	44 Heptadecane	9.296	9.289	0.007	34365	NC	
A	31 C12-C24	9.330	(5.787-12.872)		1307728	133.2	
	49 n-Octadecane	9.862	9.866	-0.004	24911	NC	
A	52 Mineral oil	9.957	(2.681-17.233)		4731348	435.5	
A	9 Crude Oil Range Organics (	9.957	(2.681-17.233)		4731348	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.957	(2.681-17.233)		5369715	NC	
33 C19	10.414	10.419	-0.005	39126	NC	
A 64 C13-C28	10.552	(6.586-14.519)		2044826	208.3	
A 17 C10-C36	10.603	(3.973-17.233)		5353431	545.3	
A 13 C9-C40	10.728	(2.681-18.775)		5458347	539.9	
A 68 Crude Oil Range Organics (	10.728	(2.681-18.775)		5458347	NC	
A 58 C16-C24	10.766	(8.659-12.872)		1146438	116.8	
61 icosane	10.947	10.952	-0.005	27564	NC	
A 6 C10-C40	11.335	(3.896-18.775)		5440763	538.8	
$ 34 p-Terphenyl	11.913	11.923	-0.010	213512	19.0	
35 n-Docosane	12.036	11.952	0.084	30004	NC	
A 18 C12-C40	12.281	(5.787-18.775)		5374112	533.9	
36 Tricosane	12.413	12.421	-0.008	52521	NC	
A 66 C13-C40	12.680	(6.586-18.775)		4896333	493.7	
37 n-Tetracosane	12.862	12.872	-0.010	110691	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		3466396	469.8	
38 C25	13.304	13.306	-0.002	66738	NC	
A 19 C16-C40	13.717	(8.659-18.775)		5155697	515.1	
46 n-Hexacosane	13.716	13.725	-0.009	82437	NC	
A 20 C19-C36	13.826	(10.419-17.233)		3518172	451.2	
A 55 C23-C32	14.189	(12.421-15.958)		2012715	467.3	
39 n-Octacosane	14.519	14.519	0.000	61468	NC	
65 C29	14.892	14.896	-0.004	158148	NC	
A 40 C24-C36	15.053	(12.872-17.233)		2970479	474.0	M
A 7 Motor Oil	15.053	(12.872-17.233)		2882121	459.9	
A 50 C25-C36	15.270	(13.306-17.233)		2701387	455.8	
A 10 C22-C40	15.363	(11.952-18.775)		3589276	404.9	
A 41 C23-C40	15.598	(12.421-18.775)		3655622	422.3	
A 8 C24-C40	15.823	(12.872-18.775)		3494775	417.7	
56 Dotriacontane	15.923	15.958	-0.035	389505	NC	
A 51 C28-C40	16.647	(14.519-18.775)		2698485	405.6	
A 63 C29-C40	16.835	(14.896-18.775)		2446572	401.3	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.775			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

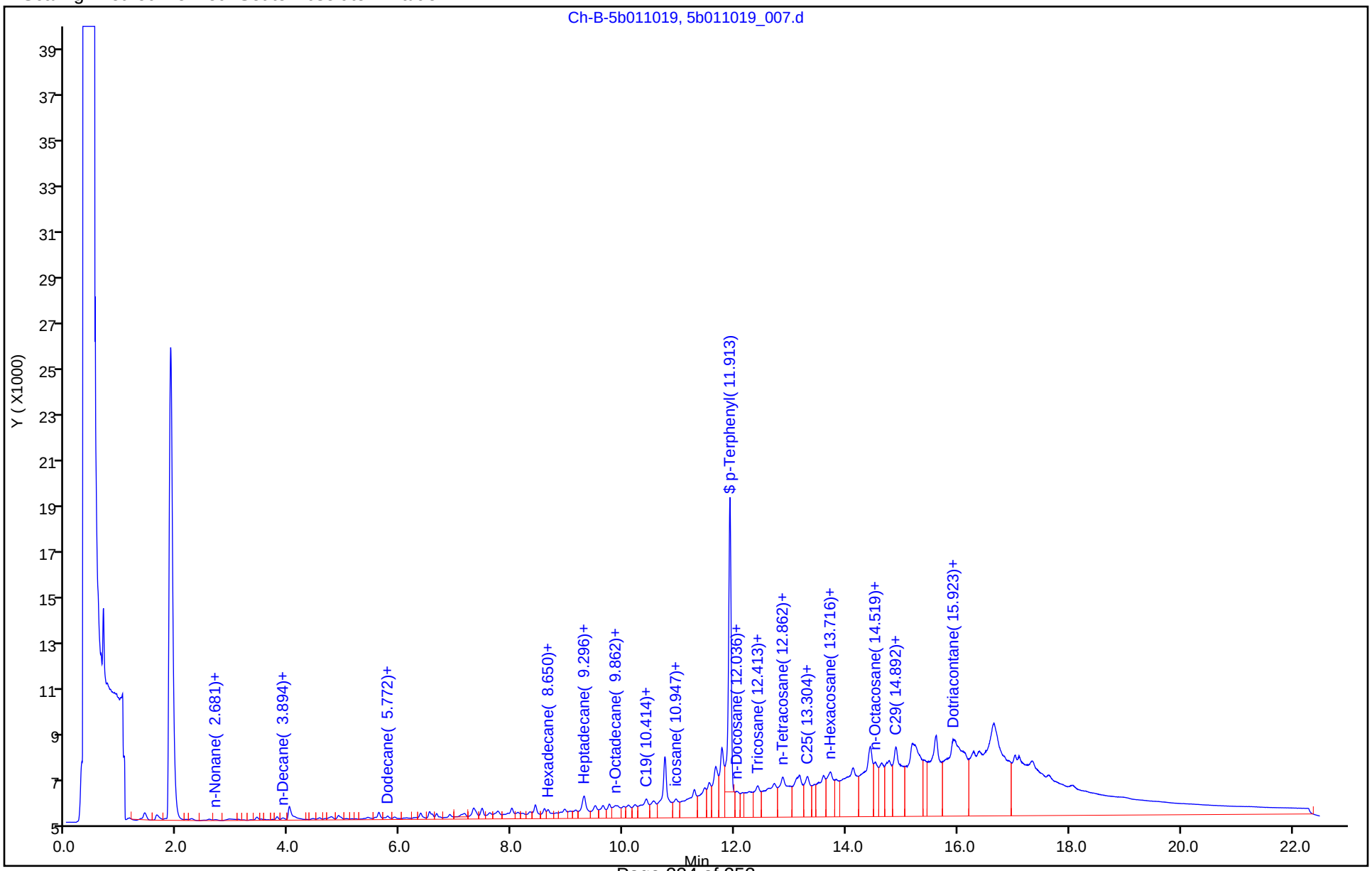
Report Date: 11-Jan-2019 13:29:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_007.d

Injection Date:	10-Jan-2019 18:32:29	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90640-E-32-C	Lab Sample ID:	720-90640-32	Worklist Smp#:	7
Client ID:	DG-U7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_007.d
Lims ID: 720-90640-E-32-C
Client ID: DG-U7S-3.5-4
Sample Type: Client
Inject. Date: 10-Jan-2019 18:32:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0056024-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\DRO5B.m
Limit Group: DRO
Last Update: 11-Jan-2019 13:29:35 Calib Date: 10-Jan-2019 12:11:31
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 11-Jan-2019 13:29:35

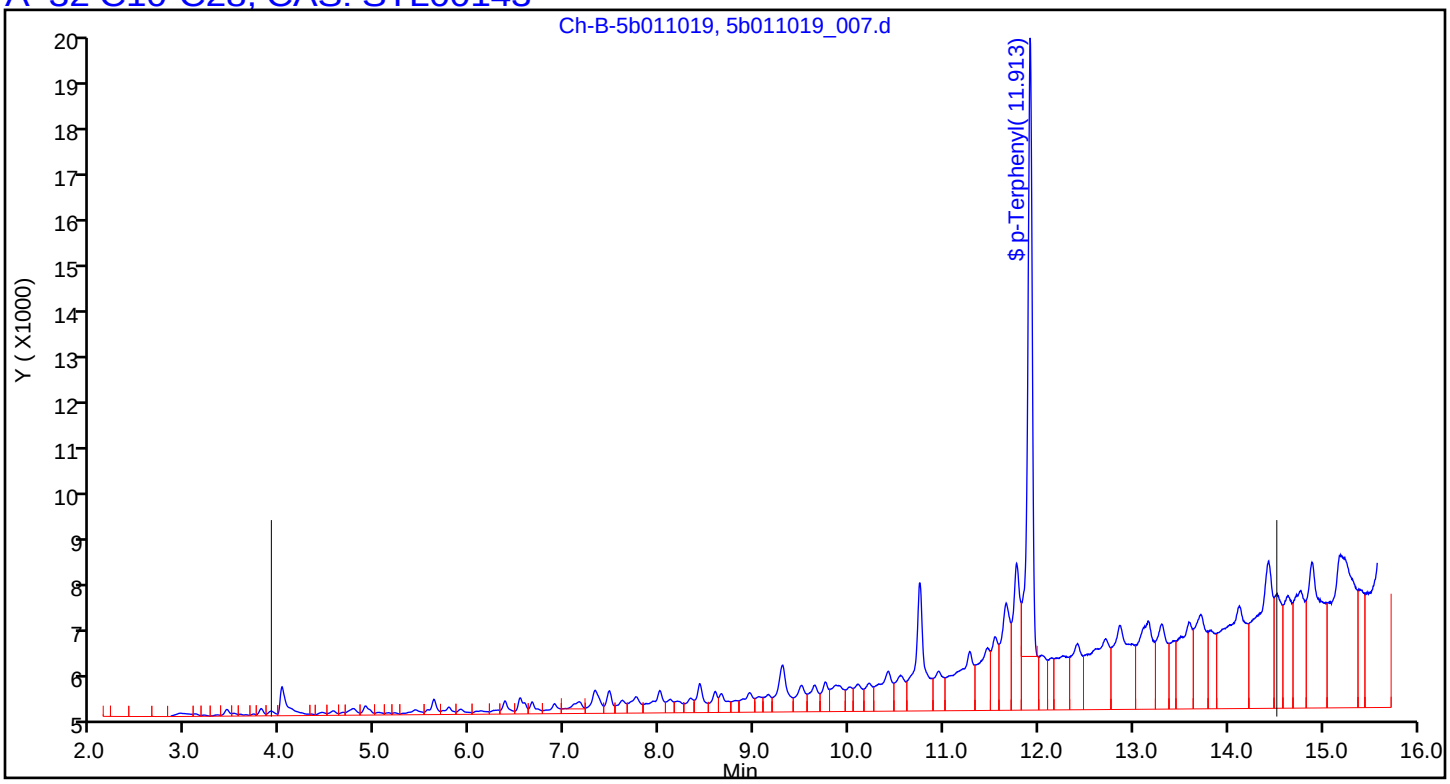
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	19.0	75.81

Report Date: 11-Jan-2019 13:29:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_007.d				
Injection Date:	10-Jan-2019 18:32:29	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-32-C	Lab Sample ID:	720-90640-32		
Client ID:	DG-U7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

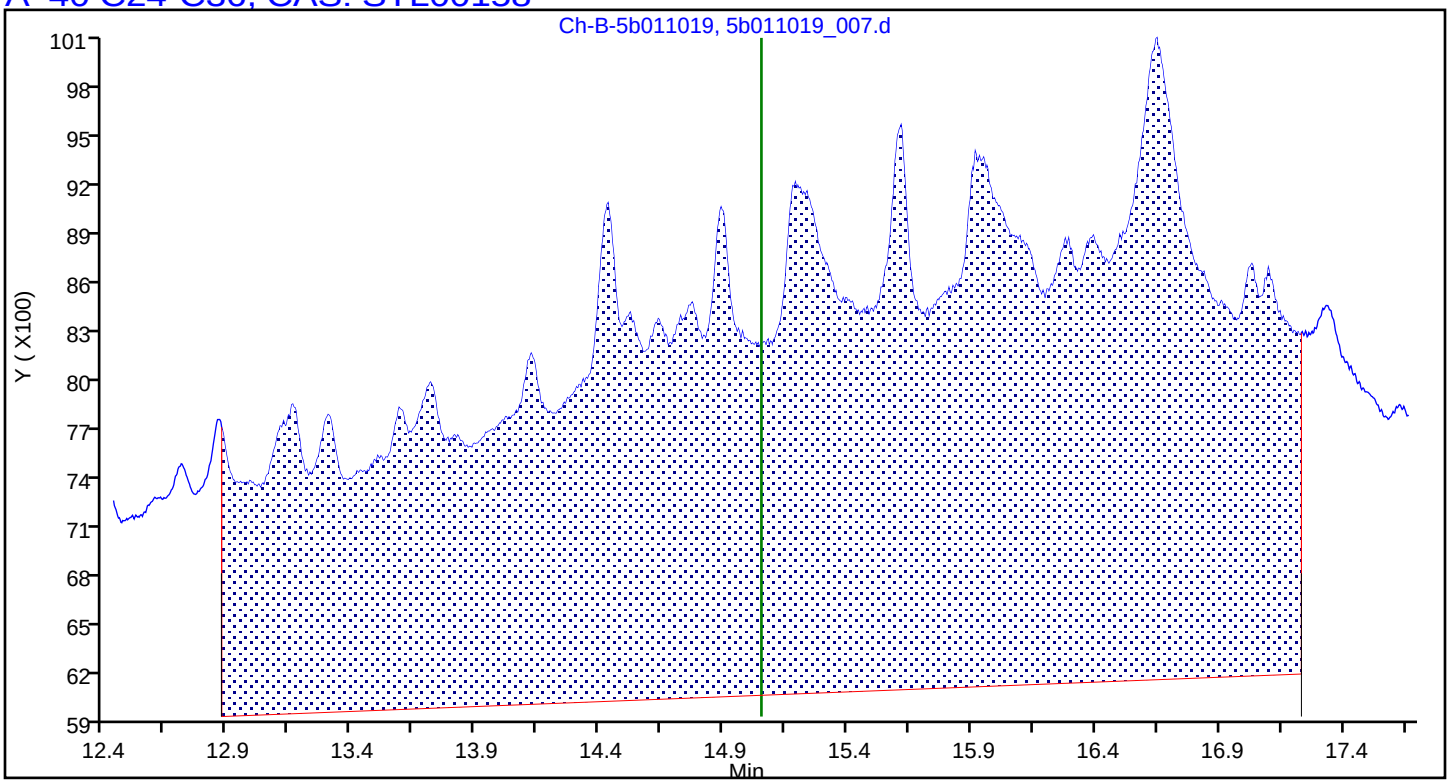


Report Date: 11-Jan-2019 13:29:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_007.d				
Injection Date:	10-Jan-2019 18:32:29	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-32-C	Lab Sample ID:	720-90640-32		
Client ID:	DG-U7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

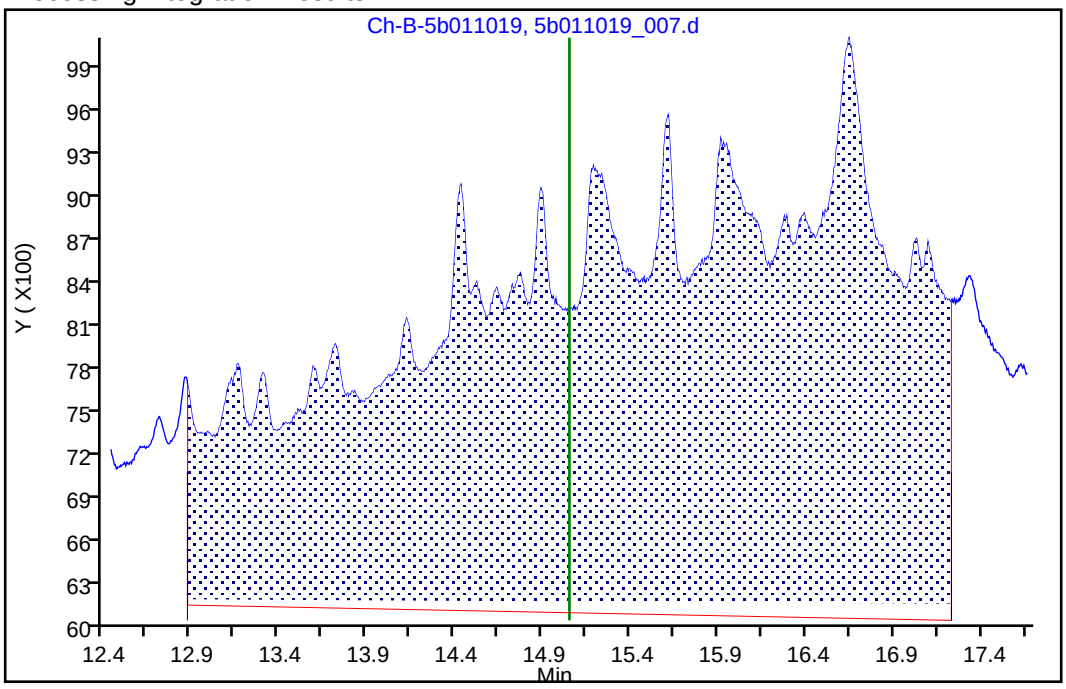
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190110-56024.b\5b011019_007.d				
Injection Date:	10-Jan-2019 18:32:29	Instrument ID:	CHDRO5		
Lims ID:	720-90640-E-32-C	Lab Sample ID:	720-90640-32		
Client ID:	DG-U7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.053, CAS: STL00158

Signal: 1

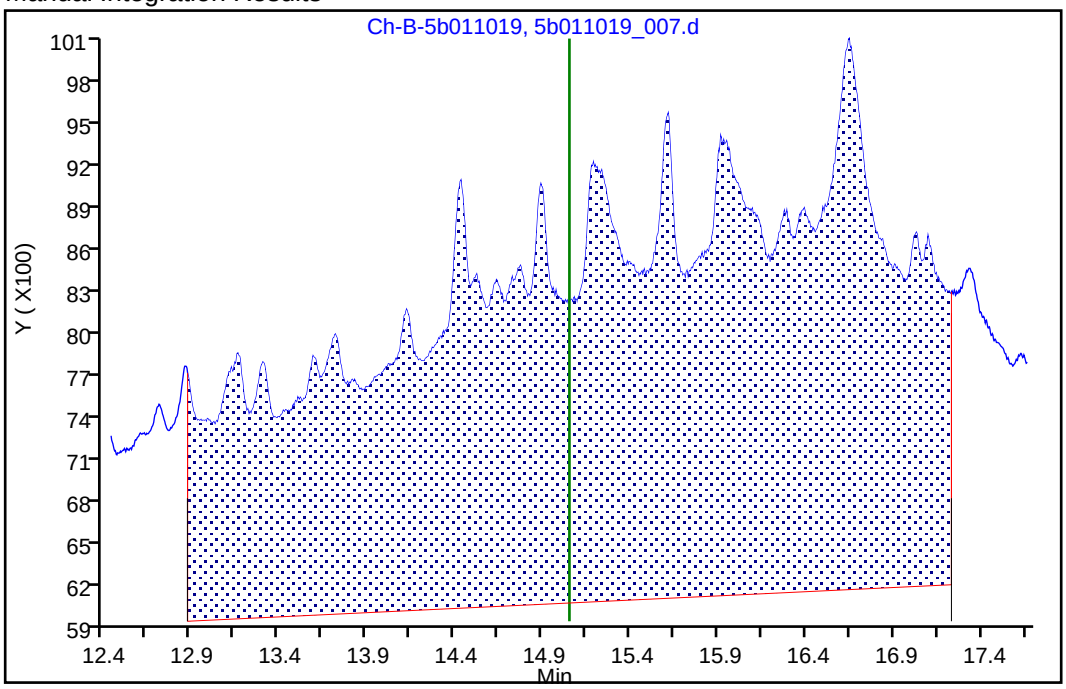
Processing Integration Results

RT: 15.05
Response: 2882121
Amount: 459.9110



Manual Integration Results

RT: 15.05
Response: 2970479
Amount: 474.0106



Reviewer: luj, 11-Jan-2019 13:29:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-90640

Chain of Custody Record

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/05/2019	COC No 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: GH
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☑ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			720-90640 Chain of Custody
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-T55-0.5-1	1/8/19	745	G	S	7	N		X	X	X	X	X	X	X	
2	DG-T55-3.5-4		747													
3	DG-V55-0.5-1		805													
4	DG-V55-3.5-4		807													
5	DG-V55-7.5-8		810													
6	DG-X55-0.5-1		825													
7	DG-X55-3.5-4		827													
8	DG-Z55-0.5-1		840													
9	DG-Z55-3.5-4		842													
10	DG-AD55-0.5-1		920													
11	DG-AD55-3.5-4		922													
12	DG-AF55-0.5-1		935													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No. _____		
Relinquished by George Hichborn	Company Geosyntec	Date/Time 1-8-19 1845	Received by	Company TALS	Date/Time 1/8/19 1345		
Relinquished by	Company TALS	Date/Time 1/8/19 1730	Received by	Company	Date/Time		
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA PLS	Date/Time 1/8/19 1730		

1-4/1.8 C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

720-90640

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-8-19	COC No 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & 3RO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-AF55-3.5-4	1/8/19	937	G	S	7	N		X	X	X	X	X	X	X	
14	DG-AH55-0.5-1		955													
15	DG-AH55-3.5-4		957													
16	DG-AH55-8-8.5		1000													
17	DG-AJ55-0.5-1		1020													
18	DG-AJ55-3.5-4		1022													
19	DG-P55-0.5-1		1115													
20	DG-P55-3.5-4		1117													
21	DG-N55-0.5-1		1205													
22	DG-N55-3.5-4		1207													
23	DUP-125	1/8/19	—	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No ____		
Relinquished by	Company: Geosyntec	Date/Time: 1-8-19 1645	Received by	Company: FedEx	Date/Time: 1/8/19 1345
Relinquished by	Company: FedEx	Date/Time: 1/8/19 1730	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/10/19 1730

1.4, 1.8°C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925 600 3002

720-90640

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-8-19	COC No 18679
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
24	DG-07S-0.5-1	1-8-19	1325	G	S	7	N		X	X	X	X	X	X	X	
25	DG-07S-3.5-4		1327													
26	DG-Q7S-0.5-1		1343													
27	DG-Q7S-3.5-4		1345			10		Y								
28	DUP 44		—			7										
29	DG-S7S-0.5-1		1420													
30	DG-S7S-3.5-4		1427													
31	DG-U7S-0.5-1		1450													
32	DG-U7S-3.5-4		1452													
33	FB 1-8-19	1-8-19	—						X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company GEOSYNTEC	Date/Time 1-8-19 1542	Received by	Company TA PLS	Date/Time 1/8/19 1345
Relinquished by	Company TA PLS	Date/Time 1/8/19 1730	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/8/19 1730

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1.4/1.8°C

GEOSYNTEC
720-90640


720-90640-02 Chain of Custody

FedEx

Address:	7275 JOHNSON DRIVE PLEASANTON CA 94588
Location:	LVKA
Device ID:	-BTC01

FedEx Express Package(s) - Dropped Off
478645740816

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at. fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 08, 2019 6:11:59 PM

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/08/2019	COC No: 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: GH
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site. Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
DG-T5S-0.5-1	1/8/19	745	G	S	7	N		X	X	X	X	X	X	X	
DG-T5S-3.5-4		747													
DG-V5S-0.5-1		805													
DG-V5S-3.5-4		807													
DG-V5S-7.5-8		810													
DG-X5S-0.5-1		825													
DG-X5S-3.5-4		827													
DG-Z5S-0.5-1		840													
DG-Z5S-3.5-4		842													
DG-AD5S-0.5-1		920													
DG-AD5S-3.5-4		922													
DG-AF5S-0.5-1		935													

Encorde at Terracore Frozen Date: 1/8/19 Time: 1435 Initials: AS

720-90640 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: George Hichborn	Company: Geosyntec	Date/Time: 1-8-19 1645	Received by:	Company: TARCS	Date/Time: 1/8/19 1734
Relinquished by:	Company: TARCS	Date/Time: 1/8/19 1730	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TARCS	Date/Time: 1/9/19 9:30

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

CS TRK-4786 4574 0816 7-4/1.8 C

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-8-19	COC No: 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler: George Hichborn
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
DG-AF5S-3.5-4	1/8/19	937	G	S	7	N		X	X	X	X	X	X	X	
DG-AH5S-0.5-1		955													
DG-AH5S-3.5-4		957													
DG-AH5S-8-8.5		1000													
DG-AJ5S-0.5-1		1020													
DG-AJ5S-3.5-4		1022													
DG-P5S-0.5-1		1115													
DG-P5S-3.5-4		1117													
DG-N5S-0.5-1		1205													
DG-N5S-3.5-4		1207													
DUP-125	1	—	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd. _____ Corr'd. _____ Therm ID No. _____		
Relinquished by:	Company: GEOSYNTEC	Date/Time: 1-8-19 1645	Received by:	Company TARCS	Date/Time 1/8/19 1345
Relinquished by:	Company: TA PLS	Date/Time: 1/8/19 1720	Received by:	Company.	Date/Time
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company TA/RV	Date/Time 1/9/19 9:30

Form No. CA-C-WI.002, Rev. 4.18, dated 9/5/2018

1-14 / 1-8 C

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-8-19	COC No: 187693
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler: George Hichborn
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
DG-07S-0.5-1	1-8-19	1325	G	S	7	N		X	X	X	X	X	X	X	
DG-07S-3.5-4		1327													
DG-Q7S-0.5-1		1343													
DG-Q7S-3.5-4		1345			10		Y								
Dup 44		—			7										
DG-S7S-0.5-1		2420													
DG-S7S-3.5-4		1422													
DG-U7S-0.5-1		1450													
DG-U7S-3.5-4		1452													
FB 1-8-19	1-8-19	—						X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd _____ Therm ID No. _____			
Relinquished by	Company: GEOSYNTEC	Date/Time: 1-8-19 1645	Received by:	Company: TAPCS	Date/Time: 1/8/19 1345
Relinquished by:	Company: TAPCS	Date/Time: 1/8/19 1720	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company: TAKV	Date/Time: 1/9/19 9:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1.4/1.8C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40728.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sediment, Oil, Tissue, Air, etc.)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8015/8346 Standard 8015 PCB Filter	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-T5S-0.5-1 (720-90640-1)	1/8/19	07:45 Pacific		Solid	X	X	X			4
DG-T5S-3.5-4 (720-90640-2)	1/8/19	07:47 Pacific		Solid	X	X	X			4
DG-V5S-0.5-1 (720-90640-3)	1/8/19	08:05 Pacific		Solid	X	X	X			4
DG-V5S-3.5-4 (720-90640-4)	1/8/19	08:07 Pacific		Solid	X	X	X			4
DG-V5S-7.5-8 (720-90640-5)	1/8/19	08:10 Pacific		Solid	X	X	X			4
DG-X5S-0.5-1 (720-90640-6)	1/8/19	08:25 Pacific		Solid	X	X	X			4
DG-X5S-3.5-4 (720-90640-7)	1/8/19	08:27 Pacific		Solid	X	X	X			4
DG-Z5S-0.5-1 (720-90640-8)	1/8/19	08:40 Pacific		Solid	X	X	X			4
DG-Z5S-3.5-4 (720-90640-9)	1/8/19	08:42 Pacific		Solid	X	X	X			4

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1-9-19 915	Alen			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40728.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastecoil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFT/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFT/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AD5S-0.5-1 (720-90640-10)	1/8/19	09:20 Pacific		Solid	X	X	X		1
DG-AD5S-3.5-4 (720-90640-11)	1/8/19	09:22 Pacific		Solid	X	X	X		2
DG-AF5S-0.5-1 (720-90640-12)	1/8/19	09:35 Pacific		Solid	X	X	X		3
DG-AF5S-3.5-4 (720-90640-13)	1/8/19	09:37 Pacific		Solid	X	X	X		4
DG-AH5S-0.5-1 (720-90640-14)	1/8/19	09:55 Pacific		Solid	X	X	X		5
DG-AH5S-3.5-4 (720-90640-15)	1/8/19	09:57 Pacific		Solid	X	X	X		6
DG-AH5S-8-8.5 (720-90640-16)	1/8/19	10:00 Pacific		Solid	X	X	X		7
DG-AJ5S-0.5-1 (720-90640-17)	1/8/19	10:20 Pacific		Solid	X	X	X		8
DG-AJ5S-3.5-4 (720-90640-18)	1/8/19	10:22 Pacific		Solid	X	X	X		9

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40728.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons standard-8260-Pace Nat	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-P5S-0.5-1 (720-90640-19)	1/8/19	11:15 Pacific		Solid	X	X	X			4
DG-P5S-3.5-4 (720-90640-20)	1/8/19	11:17 Pacific		Solid	X	X	X			4
DG-N5S-0.5-1 (720-90640-21)	1/8/19	12:05 Pacific		Solid	X	X	X			4
DG-N5S-3.5-4 (720-90640-22)	1/8/19	12:07 Pacific		Solid	X	X	X			4
DUP-125 (720-90640-23)	1/8/19	Pacific		Solid	X	X	X			4
DG-O7S-0.5-1 (720-90640-24)	1/8/19	13:25 Pacific		Solid	X	X	X			4
DG-O7S-3.5-4 (720-90640-25)	1/8/19	13:27 Pacific		Solid	X	X	X			4
DG-Q7S-0.5-1 (720-90640-26)	1/8/19	13:43 Pacific		Solid	X	X	X			4
DG-Q7S-3.5-4 (720-90640-27)	1/8/19	13:45 Pacific		Solid	X	X	X			3

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1-7-19 915	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40728.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/8040-Standard 8082 PCB (Aroclor)	8260B_LL/8260B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-Q7S-3.5-4 (720-90640-27MS)	1/8/19	13:45 Pacific	MS	Solid	X	X	X			
DG-Q7S-3.5-4 (720-90640-27MSD)	1/8/19	13:45 Pacific	MSD	Solid	X	X	X			
DUP 44 (720-90640-28)	1/8/19	Pacific		Solid	X	X	X			4
DG-S7S-0.5-1 (720-90640-29)	1/8/19	14:20 Pacific		Solid	X	X	X			4
DG-S7S-3.5-4 (720-90640-30)	1/8/19	14:22 Pacific		Solid	X	X	X			4
DG-U7S-0.5-1 (720-90640-31)	1/8/19	14:50 Pacific		Solid	X	X	X			4
DG-U7S-3.5-4 (720-90640-32)	1/8/19	14:52 Pacific		Solid	X	X	X			4
FB 1-18-19 (720-90640-33)	1/8/19	Pacific		Water				X	X	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1-9-19 9:15	Company: DTS	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

Ver: 09/20/2016

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4796 4574 1032	COC No. 720-40728-1
Client Contact. Shipping/Receiving	Phone.	E-Mail. urvashi.patel@testamericainc.com	State of Origin: California	Page Page 1 of 4
Company. TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #. 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip CA, 92614-5817				
Phone. 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name Brisbane OU-2 Data Gap Investigation	Project # 72013947			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030A_F_FW 8260-(MOD) VOCs + G40	8260B/CA_LUFTMS/5030A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-T5S-0.5-1 (720-90640-1)	1/8/19	07:45 Pacific		Solid			X	X	X			6	1
DG-T5S-3.5-4 (720-90640-2)	1/8/19	07:47 Pacific		Solid			X	X	X			6	1
DG-V5S-0.5-1 (720-90640-3)	1/8/19	08:05 Pacific		Solid			X	X	X			6	1
DG-V5S-3.5-4 (720-90640-4)	1/8/19	08:07 Pacific		Solid			X	X	X			6	1
DG-V5S-7.5-8 (720-90640-5)	1/8/19	08:10 Pacific		Solid			X	X	X			6	1
DG-X5S-0.5-1 (720-90640-6)	1/8/19	08:25 Pacific		Solid			X	X	X			6	1
DG-X5S-3.5-4 (720-90640-7)	1/8/19	08.27 Pacific		Solid			X	X	X			6	1
DG-Z5S-0.5-1 (720-90640-8)	1/8/19	08.40 Pacific		Solid			X	X	X			6	1
DG-Z5S-3.5-4 (720-90640-9)	1/8/19	08:42 Pacific		Solid			X	X	X			6	1

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment		
Relinquished by:	Date/Time: 1/9/19 1355	Company TAPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/10/19 9:45	Company VA-IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.5 | 0.7 FROG

Ver 09/20/2016

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 9574 1032	COC No: 720-497282
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260 (MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8052/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AD5S-0 5-1 (720-90640-10)	1/8/19	09:20 Pacific		Solid			X	X	X			1	
DG-AD5S-3.5-4 (720-90640-11)	1/8/19	09:22 Pacific		Solid			X	X	X			1	
DG-AF5S-0.5-1 (720-90640-12)	1/8/19	09:35 Pacific		Solid			X	X	X			1	
DG-AF5S-3.5-4 (720-90640-13)	1/8/19	09:37 Pacific		Solid			X	X	X			1	
DG-AH5S-0.5-1 (720-90640-14)	1/8/19	09:55 Pacific		Solid			X	X	X			1	
DG-AH5S-3 5-4 (720-90640-15)	1/8/19	09:57 Pacific		Solid			X	X	X			1	
DG-AH5S-8-8.5 (720-90640-16)	1/8/19	10:00 Pacific		Solid			X	X	X			1	
DG-AJ5S-0.5-1 (720-90640-17)	1/8/19	10:20 Pacific		Solid			X	X	X			1	
DG-AJ5S-3 5-4 (720-90640-18)	1/8/19	10:22 Pacific		Solid			X	X	X			1	

Chm. 1-9-19

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment			
Relinquished by	Date/Time: 1/9/19 1355	Company TAP	Received by	Date/Time:	Company	
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company	
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1/10/19 945	Company TA-IRV	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No : | Cooler Temperature(s) °C and Other Remarks: 0.5/0.7 IR001

Ver. 09/20/2016

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 1032	COC No: 720-407283-2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_TPW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_E_PW 8260-(MOD) VOCs	Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
DG-P5S-0.5-1 (720-90640-19)	1/8/19	11:15 Pacific		Solid			X	X	X				5	
DG-P5S-3.5-4 (720-90640-20)	1/8/19	11:17 Pacific		Solid			X	X	X				5	
DG-N5S-0.5-1 (720-90640-21)	1/8/19	12:05 Pacific		Solid			X	X	X				5	
DG-N5S-3.5-4 (720-90640-22)	1/8/19	12.07 Pacific		Solid			X	X	X				5	
DUP-125 (720-90640-23)	1/8/19	Pacific		Solid			X	X	X				5	
DG-O7S-0 5-1 (720-90640-24)	1/8/19	13:25 Pacific		Solid			X	X	X				5	
DG-O7S-3.5-4 (720-90640-25)	1/8/19	13:27 Pacific		Solid			X	X	X				5	
DG-Q7S-0.5-1 (720-90640-26)	1/8/19	13.43 Pacific		Solid			X	X	X				5	
DG-Q7S-3.5-4 (720-90640-27)	1/8/19	13:45 Pacific		Solid			X	X	X				4	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/9/19 1355	TAPS			
2	Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time:	Company	Received by	Date/Time: 1/10/19 9.45	Company TA IRV

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.5/0.7 IR08

Ver 09/20/2016

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 1037	COC No: 720-40720-4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90640-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/18/2019	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Irvine	TAT Requested (days):			Other:
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#:			
Site:				

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_PW 8260 (MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_PW 8260-C4:C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260 (MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-CALC12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-Q7S-3.5-4 (720-90640-27MS)	1/8/19	13:45 Pacific	MS	Solid			X	X	X			3	
DG-Q7S-3.5-4 (720-90640-27MSD)	1/8/19	13:45 Pacific	MSD	Solid			X	X	X			2	
DUP 44 (720-90640-28)	1/8/19	Pacific		Solid			X	X	X			1	1-9-19
DG-S7S-0.5-1 (720-90640-29)	1/8/19	14:20 Pacific		Solid			X	X	X			1	JW
DG-S7S-3.5-4 (720-90640-30)	1/8/19	14:22 Pacific		Solid			X	X	X			1	
DG-U7S-0.5-1 (720-90640-31)	1/8/19	14:50 Pacific		Solid			X	X	X			1	
DG-U7S-3.5-4 (720-90640-32)	1/8/19	14.52 Pacific		Solid			X	X	X			1	
FB 1-18-19 (720-90640-33)	1/8/19	Pacific		Water						X	X	3	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/9/19 1355	Company: TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1/10/19 9:45	Company: TA-IRV

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.5/0.7 IR08

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90673-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Karen Dahl
Senior Project Manager
1/31/2019 3:12 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/31/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Method 8015B - DRO Sample Data 7

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Job Narrative
720-90673-1

Comments
No additional comments.

Receipt
The samples were received on 1/9/2019 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1º C and 2.1º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):

DG-Y7S-0.5-1. The container labels list a time of 07:35, while the COC lists a time of 07:30. Logged using COC sample time.
DG-Y7S-3.5-4. The container labels list a time of 07:37, while the COC lists a time of 07:32. Logged using COC sample time.

DG-AR9S-0.5-1. The handwritten container labels list DG-ARS-0.5-1 time 14:05, while the COC lists DG-AR9S-0.5-1 time 14:05. Logged using COC sample ID.
DG-AR9S-3.5-4. The handwritten container labels list DG-ARS-3.5-1 time 14:07, while the COC lists DG-AR9S-3.5-4 time 14:07.Logged using COC sample ID

There were some discrepancies in the use of the dash in the sample IDs on the COC versus the IDs on the sample labels. In these cases the IDs from the preprinted sample labels were used in the report.

GC/MS VOA
Method 8260B/CA_LUFTMS: The TBA-d9 internal standard (ISTD) response for the following samples was below outside acceptance criteria: DG-AE7S-0.5-1 (720-90673-9). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B/CA_LUFTMS: The method blank for analytical batch 440-523699 contained Gasoline Range Organics (GRO) C4-C12 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

Method 8260B/CA_LUFTMS/8260B: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs): FB-1.9.19 (720-90673-36). However, when verified by the laboratory, the pH of the sample was 7. The sample was not analyzed within 7 days of collection.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries were outside the upper control limit for the following samples: DG-AC7S-0.5-1 (720-90673-5), DUP-47 (720-90673-7), DG-AK7S-0.5-1 (720-90673-15), DG-AS7S-3.5-4 (720-90673-24), DG-AU7S-3.5-4 (720-90673-26), DG-AR9S-0.5-1 (720-90673-28), DG-AR9S-3.5-4 (720-90673-29), DG-AD9S-0.5-1 (720-90673-31), DG-AD9S-3.5-4 (720-90673-32), DG-Z9S-0.5-1 (720-90673-33), DG-Z9S-3.5-4 (720-90673-34), & DUP-63 (720-90673-35). These samples did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries were outside the upper control limit for the following samples: DG-AE7S-3.5-4 (720-90673-10) and DG-AK7S-3.5-4 (720-90673-16). These samples do have positive results for 2-Butanone (MEK). The samples were not rerun since the holding times had already expired on the samples.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries for the method blank and LCSD associated with analytical batch 440-522143 were outside the upper control limits.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries for the LCS and LCSD associated with analytical batch 440-522204 were outside the upper control limits.

Method 8260B: The TBA-d9 internal standard (ISTD) response for the following sample was below outside acceptance criteria: DG-AE7S-0.5-1 (720-90673-9). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: The method blank for analytical batch 440-523698 contained Naphthalene at the reporting limit (RL). None of the samples associated with this method blank contained this target compound; therefore, re-analysis of samples was not performed.

Method 8260B: The method blank for analytical batch 440-523698 contained multiple analytes above the method detection limit. These target analyte concentrations were less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The method blank for preparation batch 720-258380 and analytical batch 720-258587 contained Phenanthrene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-258380 and analytical batch 720-258587: Chrysene. The batch was not re-extracted due to allowance for random marginal exceedances. Qualified results have been reported.

Method 8270C SIM: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-258562 and analytical batch 720-258768: Chrysene. The recovery was confirmed by re-analysis. The batch was not re-extracted due to laboratory error. Routine control chart generation after this batch was analyzed which resulted in a higher upper limit for Chrysene. Qualified results have been reported.

Method 8270C SIM: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258380 and analytical batch 720-258622 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258535 and analytical batch 720-258666 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AA7S-0.5-1 (720-90673-3), DG-AC7S-0.5-1 (720-90673-5), DUP-47 (720-90673-7), DG-AI7S-0.5-1 (720-90673-12), DG-AK7S-0.5-1 (720-90673-15), DG-AM7S-0.5-1 (720-90673-18), DUP-50 (720-90673-27), DG-AR9S-0.5-1 (720-90673-28), DG-AD9S-0.5-1 (720-90673-31), DG-Z9S-0.5-1 (720-90673-33), & DUP-63 (720-90673-35). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8081A: The laboratory control sample (LCS) associated with preparation batch 720-258271 and analytical batch 720-258325 was outside acceptance criteria for Endrin Aldehyde (125% recovery) on the front column. The lower value from the back column was reported, which was within control limits. Samples reported from the front column for this analyte will be flagged with an asterisk (*).

Method 8081A: The laboratory control sample (LCS) associated with preparation batch 720-258564 and analytical batch 720-258820 was outside acceptance criteria for Endrin Aldehyde (124% recovery) on the front column. The lower value from the back column was reported, which was within control limits. Samples reported from the front column for this analyte will be flagged with an asterisk (*).

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recovery for preparation batch 720-258564 and analytical batch 720-258820 were outside control limits for Endrin Ketone (127% recovery) on the front column. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits. All results for the MS/MSD were reported from the passing, back column.

Method 8081A: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries and RPDs for preparation batch 720-258308 and analytical batch 720-258415 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin, Endrin, 4,4'-DDT, 4,4'-DDE & 4,4'-DDD for the following sample: DG-AI7S-0.5-1 (720-90673-12). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Endrin, Dieldrin, 4,4'-DDT, 4,4'-DDE & 4,4'-DDD for the following sample: DG-AK7S-0.5-1 (720-90673-15). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin, 4,4'-DDT & 4,4'-DDD for the following sample: DG-AM7S-0.5-1 (720-90673-18). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258271 and analytical batch 720-258354 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: One surrogate recovery for the following samples was outside control limits: DG-AE7S-0.5-1 (720-90673-9) & DG-AM7S-0.5-1 (720-90673-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE & 4,4'-DDD for the following sample: DG-AO7S-0.5-1 (720-90673-21). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE & 4,4'-DDD and 4,4'-DDT for the following sample: DG-AS7S-0.5-1 (720-90673-23). The lower values have been reported and qualified in accordance

with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin for the following sample: DG-AR9S-0.5-1 (720-90673-28). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDD, Dieldrin, alpha-Chlordane & gamma-Chlordane for the following sample: DG-AA7S-0.5-1 (720-90673-3). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The following sample was diluted due to the abundance of non-target analytes: DG-AC7S-3.5-4 (720-90673-6). Elevated reporting limits (RLs) are provided.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDD & Dieldrin for the following sample: DG-Z9S-0.5-1 (720-90673-33). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDE, 4,4'-DDD & Dieldrin for the following sample: DG-AD9S-0.5-1 (720-90673-31). The lower values have been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for gamma-BHC (Lindane) for the following sample: DG-Z9S-3.5-4 (720-90673-34). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8015B: The method blank for preparation batch 720-258287 and analytical batch 720-258511 contained Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following samples required a dilution due to the nature of their sample matrix: DG-AI7S-0.5-1 (720-90673-12), DG-AR9S-0.5-1 (720-90673-28) & DG-AD9S-0.5-1 (720-90673-31). Because of this dilution, the surrogate spike concentration in the samples was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The surrogate recovery for the following sample was outside control limits: DG-AM7S-0.5-1 (720-90673-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The surrogate recoveries for the following samples were outside control limits due to matrix interference: DG-AM7S-7.5-8 (720-90673-20) and DG-Z9S-3.5-4 (720-90673-34). Re-analysis was performed with concurring results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries & RPDs for preparation batch 720-258270 and analytical batch 720-258515 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-138%, Copper-133%, Lead-128%, Vanadium-127%, Zinc-133% and Molybdenum-127% associated with batch 720-258515 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258515 was outside control limits for Cobalt-18%, Chromium-20%, Barium-20%, Nickel-16%, Lead-15%, Vanadium-20% and Zinc-14%. (720-90673-1-SD)

Method 6010B: The method blank for preparation batch 720-258270 and analytical batch 720-258515 contained Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of a non-target analyte: DG-Y7S-0.5-1 (720-90673-1), DG-Y7S-3.5-4 (720-90673-2), DG-AA7S-0.5-1 (720-90673-3), DG-AA7S-3.5-4 (720-90673-4), DG-AC7S-0.5-1 (720-90673-5), DG-AC7S-3.5-4 (720-90673-6), DUP-47 (720-90673-7), DG-AC7S-7.5-8 (720-90673-8), DG-AE7S-0.5-1 (720-90673-9), DG-AE7S-3.5-4 (720-90673-10), DG-AE7S-8-8.5 (720-90673-11), DG-AI7S-0.5-1 (720-90673-12), DG-AI7S-3.5-4 (720-90673-13), DG-AI7S-8-8.5 (720-90673-14), DG-AK7S-0.5-1 (720-90673-15), DG-AK7S-3.5-4 (720-90673-16), DUP-48 (720-90673-17), DG-AM7S-0.5-1 (720-90673-18), DG-AM7S-3.5-4 (720-90673-19), DG-AM7S-7.5-8 (720-90673-20), (720-90673-1-MS), (720-90673-1-MSD), (720-90673-1-PDS) and (720-90673-1-SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the abundance of a non-target analyte : DG-AO7S-0.5-1 (720-90673-21), DG-AO7S-3.5-4 (720-90673-22), DG-AS7S-0.5-1 (720-90673-23), DG-AS7S-3.5-4 (720-90673-24), DG-AU7S-0.5-1 (720-90673-25), DG-AU7S-3.5-4 (720-90673-26), DUP-50 (720-90673-27), DG-AR9S-0.5-1 (720-90673-28), DG-AR9S-3.5-4 (720-90673-29), DUP-65 (720-90673-30), DG-AD9S-0.5-1 (720-90673-31), DG-AD9S-3.5-4 (720-90673-32), DG-Z9S-0.5-1 (720-90673-33), DG-Z9S-3.5-4 (720-90673-34) and DUP-63 (720-90673-35). Elevated reporting limits (RLs) are provided.

Method 6010B: Some of the matrix spike / matrix spike duplicate (MS/MSD) recoveries & RPDs for preparation batch 720-258277 and

analytical batch 720-258516 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-158%, Copper-148%, Lead-132%, and Zinc-140% associated with batch 720-258516 were outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258516 was outside control limits for Arsenic-20%, Barium-19%, Cadmium-34%, Cobalt-27%, Chromium-22%, Copper-19%, Nickel-25%, Lead-25%, Antimony-27%, Vanadium-21%, and Zinc-25%: (720-90673-21-SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_026.d
Lims ID: 720-90673-E-1-F
Client ID: DG-Y7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 02:13:37 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0056114-026
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:28:24 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:28:24

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.702	2.678	0.024	2194	NC	
	23 n-Decane	3.898	3.894	0.004	2480	NC	
A	1 C9-C13	4.631	(2.678-6.584)		80460	6.35	
A	21 Stoddard Solvent	4.631	(2.678-6.584)		80460	7.08	
A	57 C10-C12	4.840	(3.894-5.786)		37698	3.84	
	24 Dodecane	5.782	5.786	-0.004	3335	NC	
A	3 C9 - C17	5.982	(2.678-9.286)		227339	16.1	
A	47 C9 - C18	6.271	(2.678-9.863)		316272	28.2	
A	60 C10-C16	6.276	(3.894-8.659)		170703	13.7	
A	15 Kerosene	6.548	(2.678-10.418)		396022	35.2	
A	25 C9-C19	6.548	(2.678-10.418)		396022	28.0	
	26 C13		6.584			ND	
$	27 n-Decanoic Acid (Surr)		7.194			ND	U
A	59 C12-C16	7.222	(5.786-8.659)		136340	13.9	
A	62 C10-C20	7.423	(3.894-10.952)		810786	82.6	
A	28 C9-C24	7.775	(2.678-12.871)		1410259	143.6	
A	29 C9-C25	7.992	(2.678-13.305)		1529604	155.8	
A	54 C10-C23	8.157	(3.894-12.420)		1236951	126.0	
A	4 C10-C24	8.382	(3.894-12.871)		1387566	141.3	
A	16 C10-C25	8.599	(3.894-13.305)		1506911	153.5	
	45 Hexadecane	8.656	8.659	-0.003	4237	NC	
A	14 C10-C26	8.809	(3.894-13.724)		1632446	166.3	
A	67 C12-C22	8.868	(5.786-11.951)		1088621	110.9	
A	5 Diesel	9.206	(3.894-14.518)		1888890	192.4	
A	32 C10-C28	9.206	(3.894-14.518)		1888890	192.4	
A	12 Unknown Hydrocarbons	9.206	(3.894-14.518)		1888890	NC	
A	30 C13-C22	9.267	(6.584-11.951)		1075799	109.6	
	44 Heptadecane	9.305	9.286	0.019	36229	NC	
A	31 C12-C24	9.328	(5.786-12.871)		1353203	137.8	
	49 n-Octadecane	9.864	9.863	0.001	19411	NC	
A	52 Mineral oil	9.956	(2.678-17.233)		4053066	373.1	
A	9 Crude Oil Range Organics (	9.956	(2.678-17.233)		4053066	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		3896879	NC	
33 C19	10.426	10.418	0.008	59460	NC	
A 64 C13-C28	10.551	(6.584-14.518)		1841705	187.6	
A 17 C10-C36	10.564	(3.894-17.233)		3874186	394.6	
A 13 C9-C40	10.725	(2.678-18.772)		4791518	473.9	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		4791518	NC	
A 58 C16-C24	10.765	(8.659-12.871)		1221100	124.4	
61 icosane	10.982	10.952	0.030	35143	NC	
A 6 C10-C40	11.333	(3.894-18.772)		4765285	471.9	
$ 34 p-Terphenyl	11.917	11.921	-0.004	254606	22.6	
35 n-Docosane	12.042	11.951	0.092	27308	NC	
A 18 C12-C40	12.279	(5.786-18.772)		4712281	468.1	
36 Tricosane	12.422	12.420	0.002	53463	NC	
A 66 C13-C40	12.678	(6.584-18.772)		4379939	441.6	
37 n-Tetracosane	12.869	12.871	-0.002	43749	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		2794442	378.7	
38 C25	13.304	13.305	-0.001	45612	NC	
A 19 C16-C40	13.715	(8.659-18.772)		4513207	450.9	
46 n-Hexacosane	13.721	13.724	-0.003	46756	NC	
A 20 C19-C36	13.826	(10.418-17.233)		2518087	322.9	
A 55 C23-C32	14.188	(12.420-15.957)		1394359	323.7	
39 n-Octacosane	14.519	14.518	0.001	44907	NC	
65 C29	14.896	14.895	0.001	193614	NC	
A 40 C24-C36	15.052	(12.871-17.233)		2041106	325.7	
A 7 Motor Oil	15.052	(12.871-17.233)		2041106	325.7	
A 50 C25-C36	15.269	(13.305-17.233)		1930307	325.7	
A 10 C22-C40	15.361	(11.951-18.772)		2629884	296.7	
A 41 C23-C40	15.596	(12.420-18.772)		2769945	320.0	
A 8 C24-C40	15.821	(12.871-18.772)		2664538	318.4	
56 Dotriacontane	15.914	15.957	-0.043	35107	NC	
A 51 C28-C40	16.645	(14.518-18.772)		2134301	320.8	
A 63 C29-C40	16.833	(14.895-18.772)		1960260	321.5	
42 n-Hexatriacontane		17.233			ND	
43 C40	18.730	18.772	-0.042	308109	NC	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

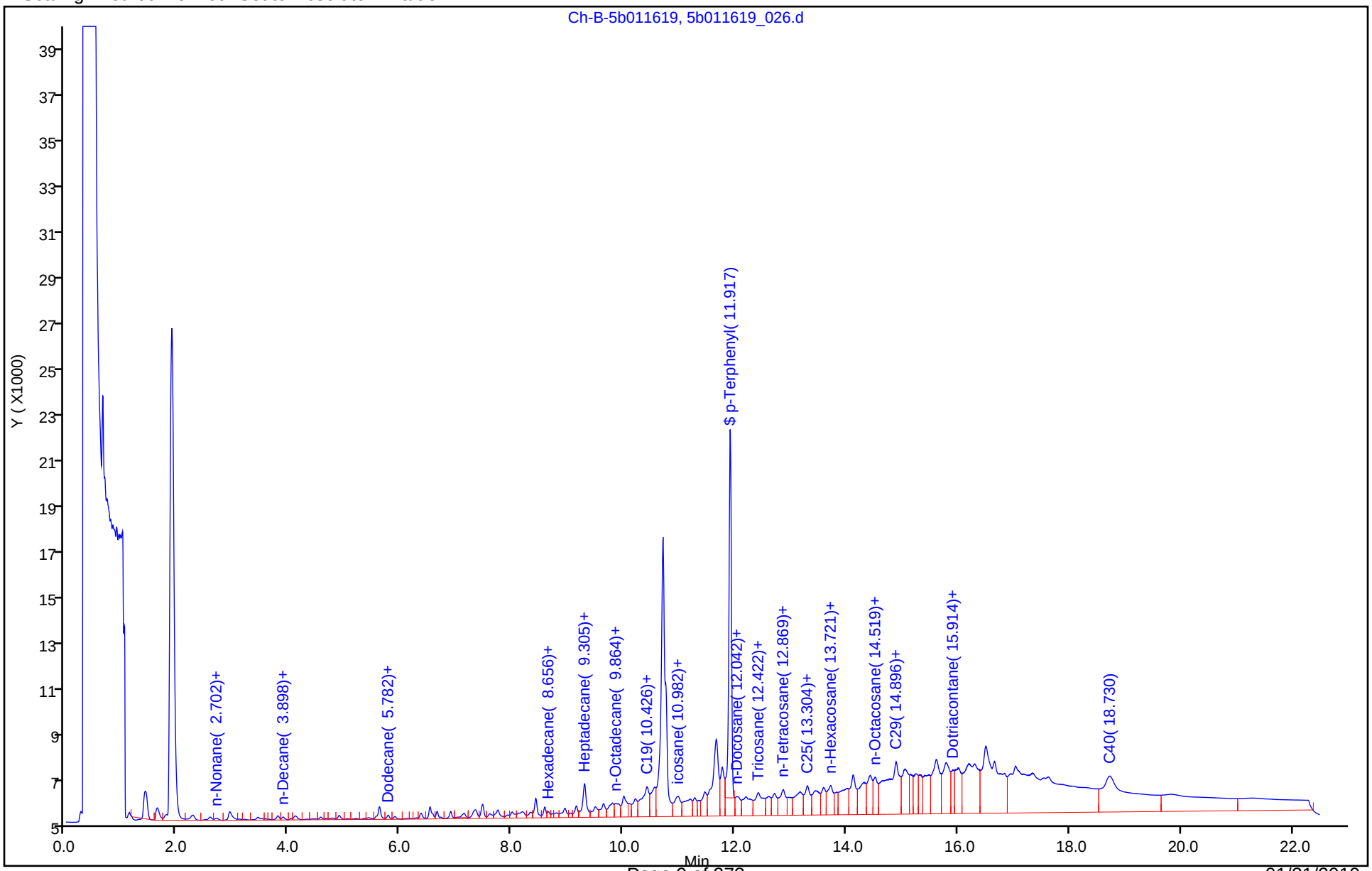
Report Date: 17-Jan-2019 12:28:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_026.d

Injection Date:	17-Jan-2019 02:13:37	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-1-F	Lab Sample ID:	720-90673-1	Worklist Smp#:	26
Client ID:	DG-Y7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_026.d				
Lims ID:	720-90673-E-1-F				
Client ID:	DG-Y7S-0.5-1				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 02:13:37	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0056114-026				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:28:24	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:28:24

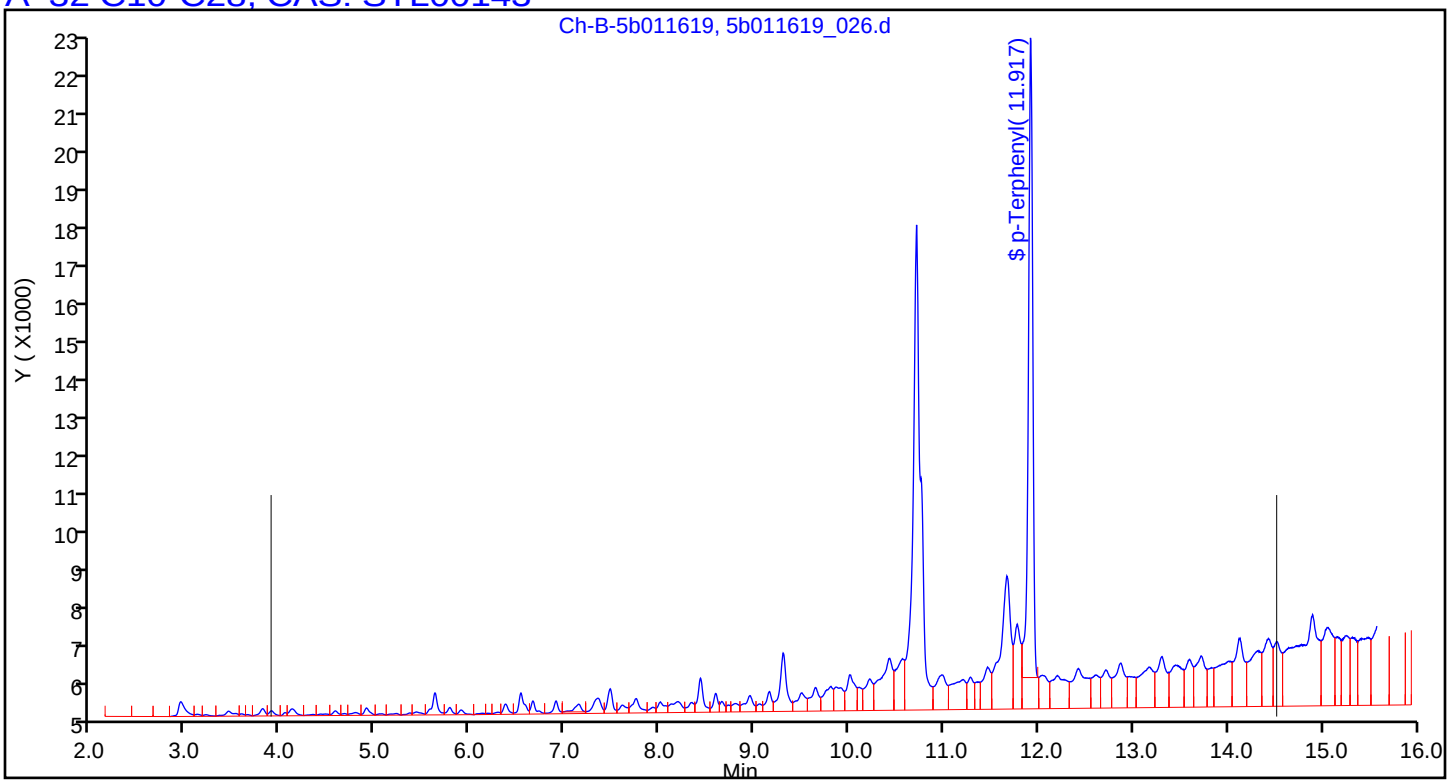
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.6	90.40

Report Date: 17-Jan-2019 12:28:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_026.d				
Injection Date:	17-Jan-2019 02:13:37	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-1-F	Lab Sample ID:	720-90673-1		
Client ID:	DG-Y7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

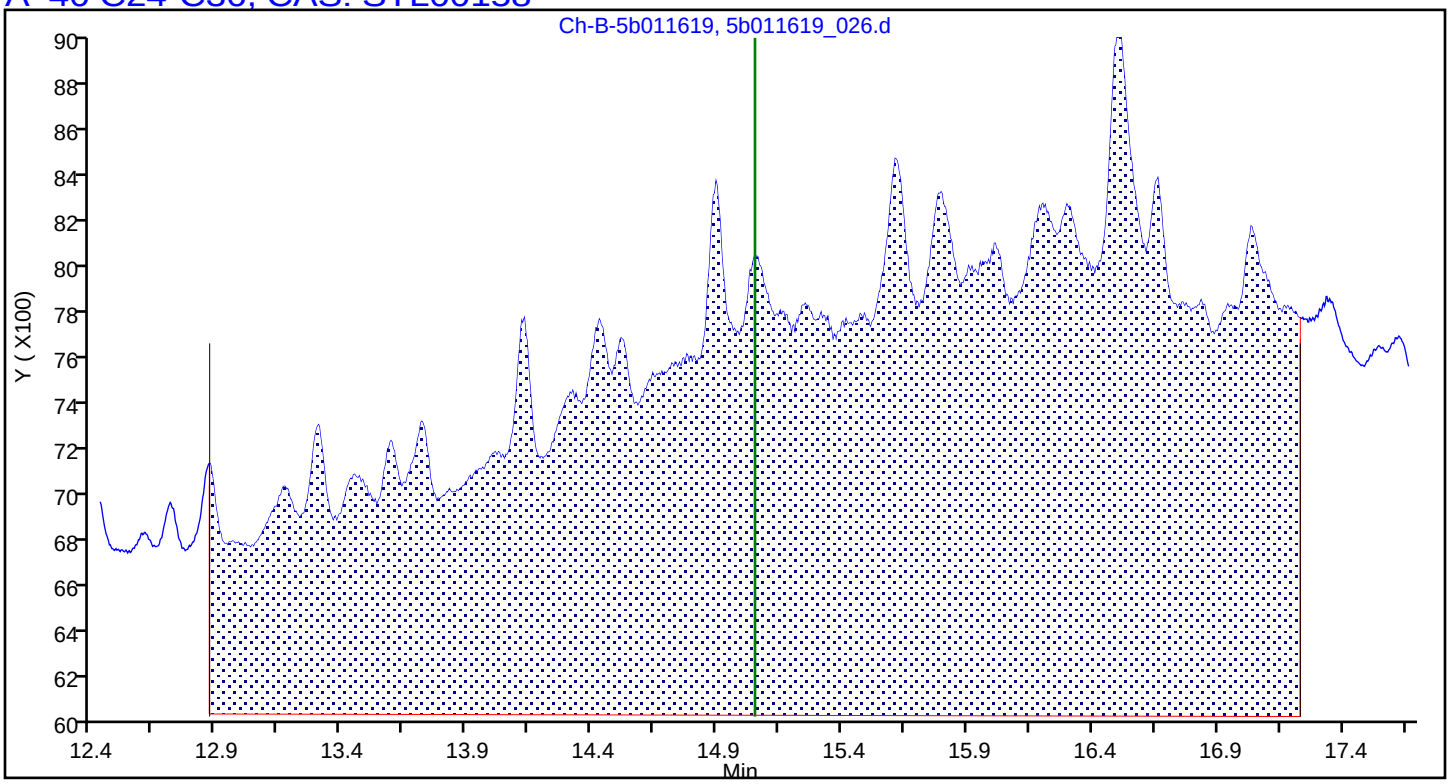


Report Date: 17-Jan-2019 12:28:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_026.d				
Injection Date:	17-Jan-2019 02:13:37	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-1-F	Lab Sample ID:	720-90673-1		
Client ID:	DG-Y7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_025.d
Lims ID: 720-90673-E-2-D
Client ID: DG-Y7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 01:44:24 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0056114-025
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:28:00 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:28:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.700	2.678	0.022	3904	NC	M
23 n-Decane	3.897	3.894	0.003	4456	NC	M
A 1 C9-C13	4.631	(2.678-6.584)		143198	11.3	M
A 21 Stoddard Solvent	4.631	(2.678-6.584)		143198	12.6	M
A 57 C10-C12	4.840	(3.894-5.786)		77503	7.89	M
24 Dodecane	5.777	5.786	-0.009	6090	NC	M
A 3 C9 - C17	5.982	(2.678-9.286)		433358	30.7	M
A 47 C9 - C18	6.271	(2.678-9.863)		571104	50.9	M
A 60 C10-C16	6.276	(3.894-8.659)		289789	23.2	M
A 15 Kerosene	6.548	(2.678-10.418)		738902	65.7	M
A 25 C9-C19	6.548	(2.678-10.418)		738902	52.2	M
26 C13	6.577	6.584	-0.007	10541	NC	M
$ 27 n-Decanoic Acid (Surr)		7.194			ND	U
A 59 C12-C16	7.222	(5.786-8.659)		218376	22.2	M
A 62 C10-C20	7.423	(3.894-10.952)		982287	100.0	M
A 28 C9-C24	7.775	(2.678-12.871)		2589120	263.7	M
A 29 C9-C25	7.992	(2.678-13.305)		3221515	328.1	M
A 54 C10-C23	8.157	(3.894-12.420)		2344683	238.8	M
A 4 C10-C24	8.382	(3.894-12.871)		2556035	260.3	M
A 16 C10-C25	8.599	(3.894-13.305)		3188430	324.7	M
45 Hexadecane	8.653	8.659	-0.006	23145	NC	M
A 14 C10-C26	8.809	(3.894-13.724)		3444241	350.8	M
A 67 C12-C22	8.868	(5.786-11.951)		1869052	190.4	M
A 5 Diesel	9.206	(3.894-14.518)		4477610	456.1	M
A 32 C10-C28	9.206	(3.894-14.518)		4477610	456.1	M
A 12 Unknown Hydrocarbons	9.206	(3.894-14.518)		4477610	NC	M
A 30 C13-C22	9.267	(6.584-11.951)		1840893	187.5	M
44 Heptadecane	9.277	9.286	-0.009	47234	NC	M
A 31 C12-C24	9.328	(5.786-12.871)		2484622	253.1	M
49 n-Octadecane	9.857	9.863	-0.006	38744	NC	M
A 52 Mineral oil	9.956	(2.678-17.233)		8423039	775.3	
A 9 Crude Oil Range Organics (	9.956	(2.678-17.233)		8423039	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		7245332	NC	M
33 C19	10.417	10.418	-0.001	81725	NC	M
A 64 C13-C28	10.551	(6.584-14.518)		4378038	445.9	M
A 17 C10-C36	10.564	(3.894-17.233)		7212247	734.6	M
A 13 C9-C40	10.725	(2.678-18.772)		9378681	927.6	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		9378681	NC	
A 58 C16-C24	10.765	(8.659-12.871)		2289391	233.2	M
61 icosane	10.953	10.952	0.001	76634	NC	M
A 6 C10-C40	11.333	(3.894-18.772)		9355029	926.5	
$ 34 p-Terphenyl	11.920	11.921	-0.001	164894	14.6	
35 n-Docosane		11.951			ND	
A 18 C12-C40	12.279	(5.786-18.772)		9288656	922.8	
36 Tricosane	12.417	12.420	-0.003	201931	NC	M
A 66 C13-C40	12.678	(6.584-18.772)		8882299	895.6	
37 n-Tetracosane	12.877	12.871	0.006	225336	NC	M
A 2 C16-C36 ORO	12.946	(8.659-17.233)		6320118	856.6	
38 C25	13.303	13.305	-0.002	196782	NC	M
A 19 C16-C40	13.715	(8.659-18.772)		9070428	906.2	
46 n-Hexacosane	13.727	13.724	0.003	160879	NC	M
A 20 C19-C36	13.826	(10.418-17.233)		6765462	867.6	
A 55 C23-C32	14.188	(12.420-15.957)		4330611	1005.4	
39 n-Octacosane	14.523	14.518	0.005	179355	NC	M
65 C29	14.893	14.895	-0.002	243185	NC	M
A 40 C24-C36	15.052	(12.871-17.233)		5504436	878.4	M
A 7 Motor Oil	15.052	(12.871-17.233)		5349856	853.7	
A 50 C25-C36	15.269	(13.305-17.233)		4955794	836.2	
A 10 C22-C40	15.361	(11.951-18.772)		6709372	757.0	
A 41 C23-C40	15.596	(12.420-18.772)		6542109	755.8	
A 8 C24-C40	15.821	(12.871-18.772)		6173421	737.8	
56 Dotriacontane	15.890	15.957	-0.067	246656	NC	M
A 51 C28-C40	16.645	(14.518-18.772)		4405438	662.2	
A 63 C29-C40	16.833	(14.895-18.772)		3818767	626.4	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

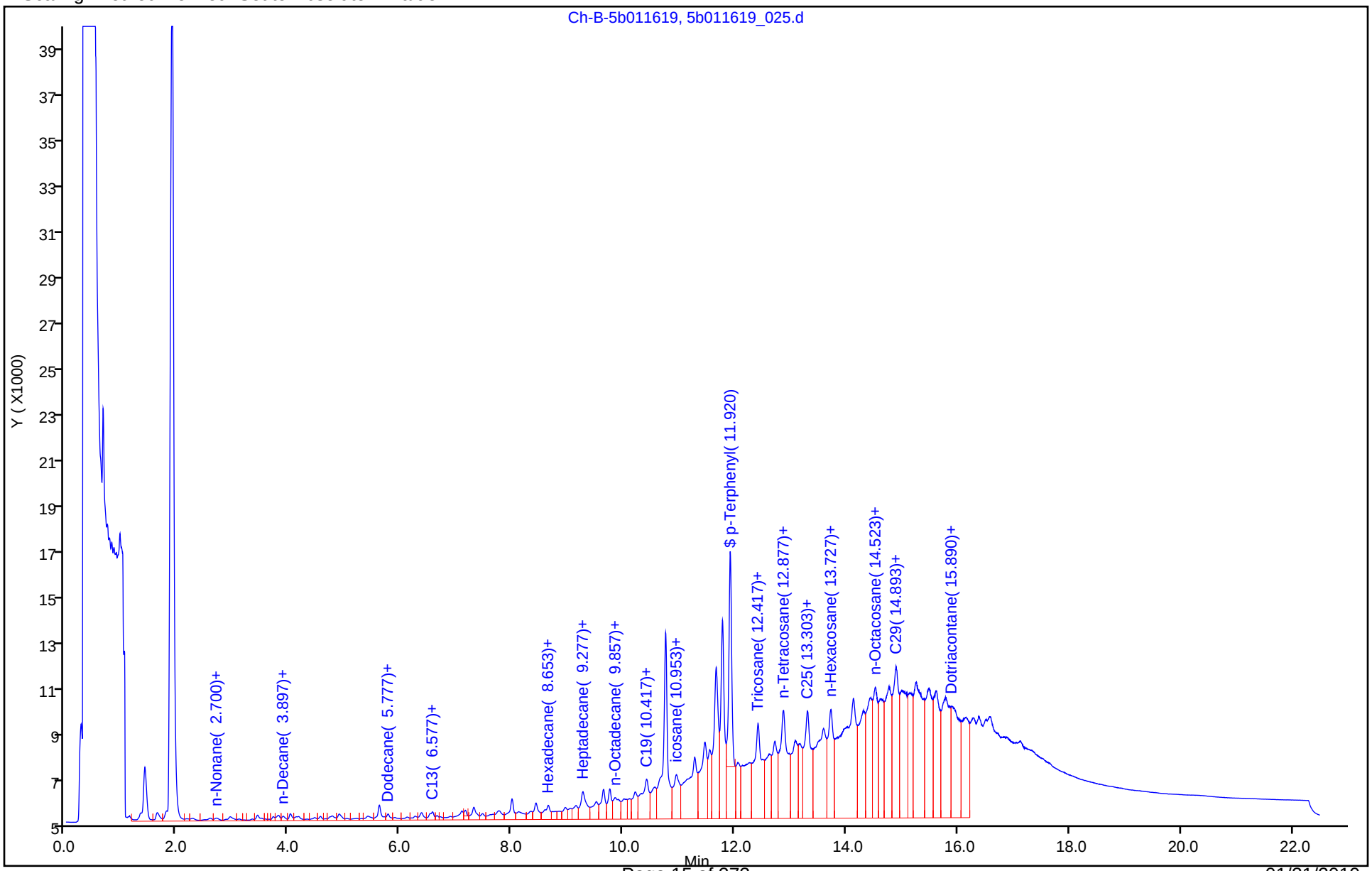
Report Date: 17-Jan-2019 12:28:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_025.d

Injection Date:	17-Jan-2019 01:44:24	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-2-D	Lab Sample ID:	720-90673-2	Worklist Smp#:	25
Client ID:	DG-Y7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_025.d				
Lims ID:	720-90673-E-2-D				
Client ID:	DG-Y7S-3.5-4				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 01:44:24	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0056114-025				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:28:00	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:28:00

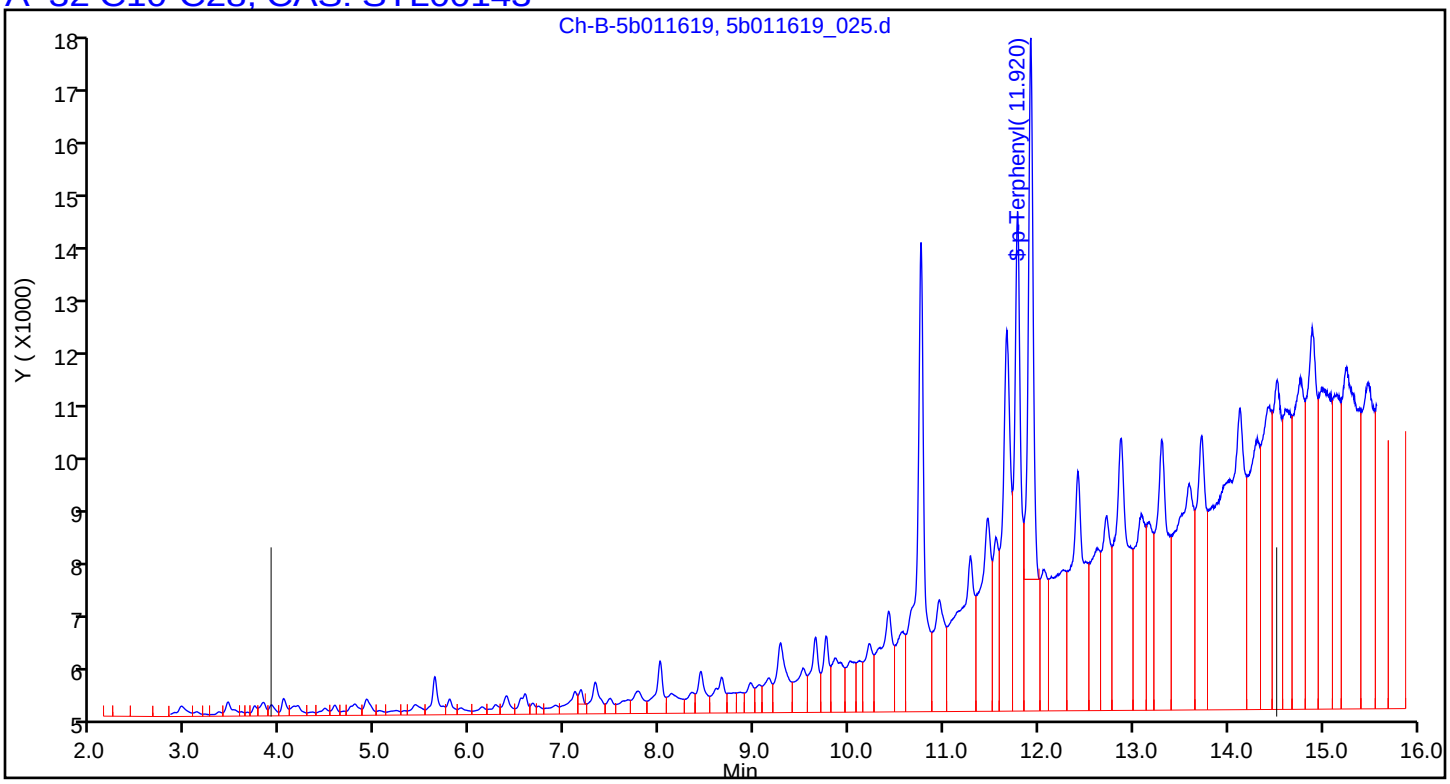
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	14.6	58.54

Report Date: 17-Jan-2019 12:28:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_025.d				
Injection Date:	17-Jan-2019 01:44:24	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-2-D	Lab Sample ID:	720-90673-2		
Client ID:	DG-Y7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

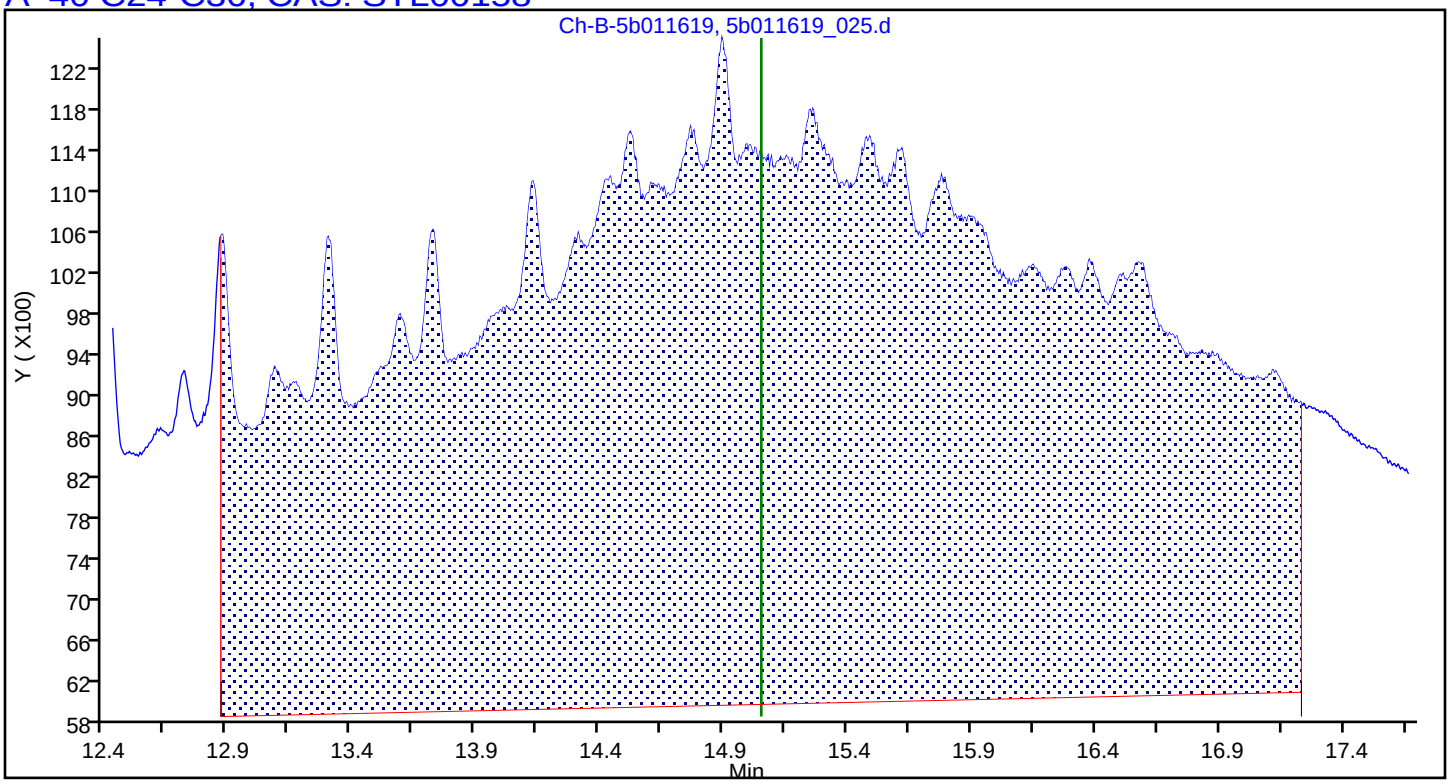


Report Date: 17-Jan-2019 12:28:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_025.d				
Injection Date:	17-Jan-2019 01:44:24	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-2-D	Lab Sample ID:	720-90673-2		
Client ID:	DG-Y7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

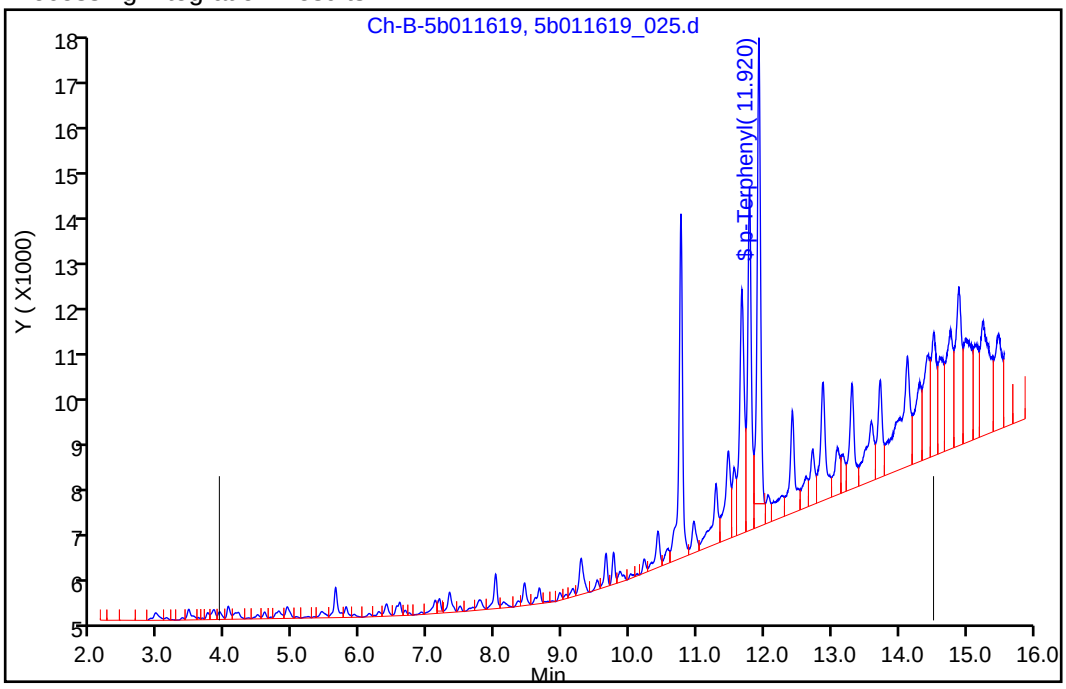
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Injection Date:	17-Jan-2019 01:44:24	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-2-D	Lab Sample ID:	720-90673-2		
Client ID:	DG-Y7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.206, CAS: STL00143

Signal: 1

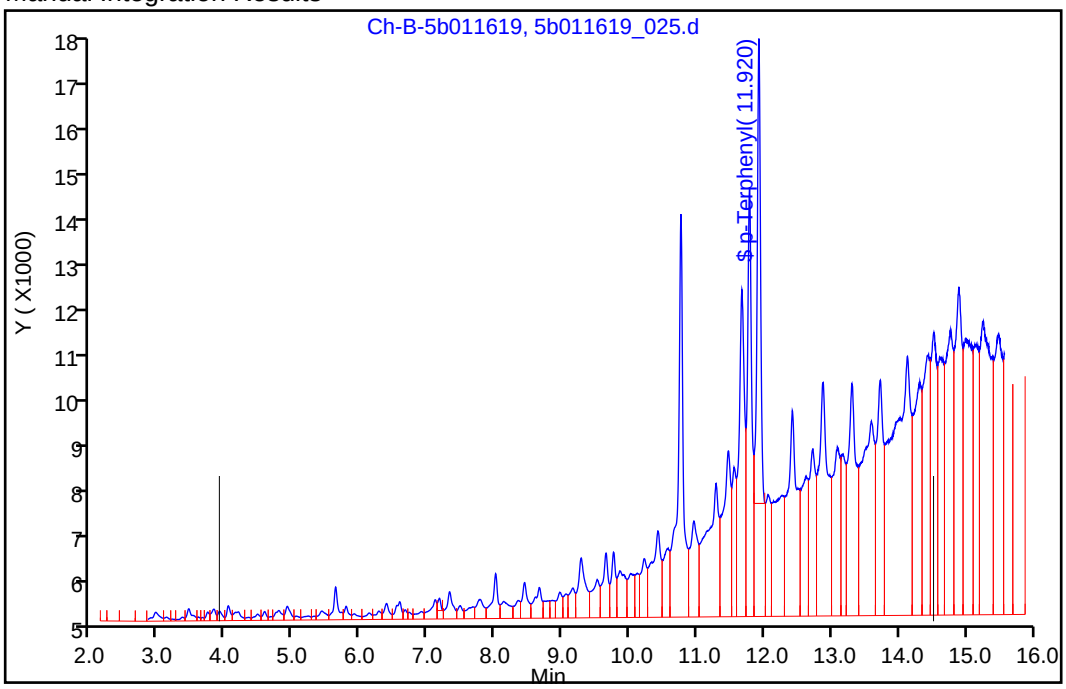
Processing Integration Results

RT: 9.21
Response: 1410966
Amount: 143.7090



Manual Integration Results

RT: 9.21
Response: 4477610
Amount: 456.0513



Reviewer: luj, 17-Jan-2019 12:27:39

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

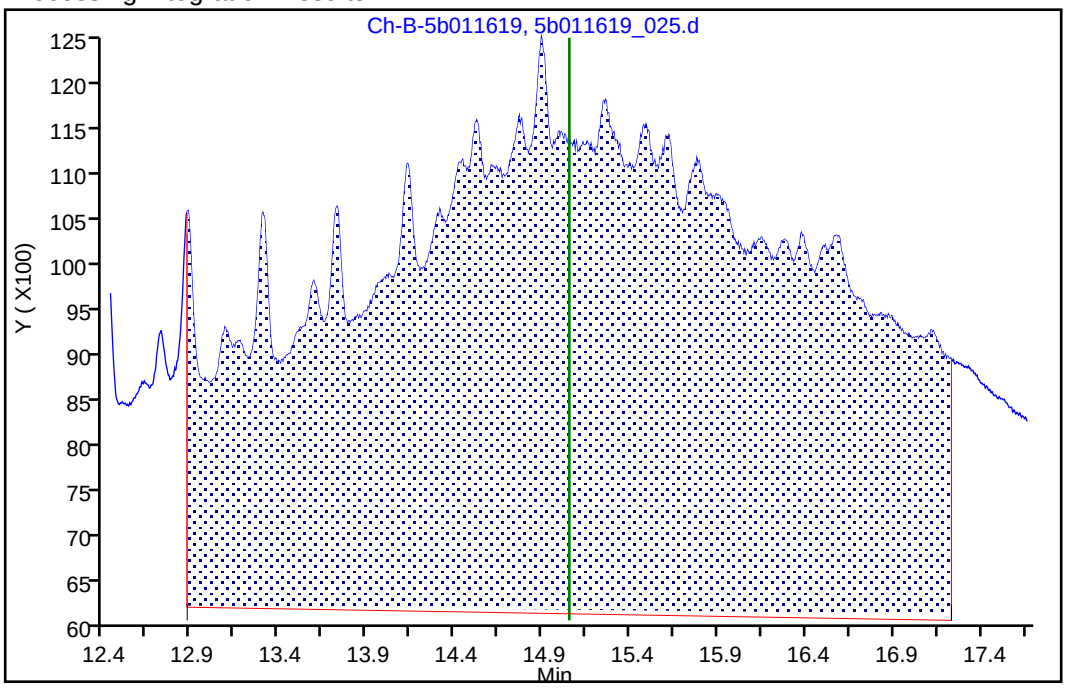
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Injection Date:	17-Jan-2019 01:44:24	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-2-D	Lab Sample ID:	720-90673-2		
Client ID:	DG-Y7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.052, CAS: STL00158

Signal: 1

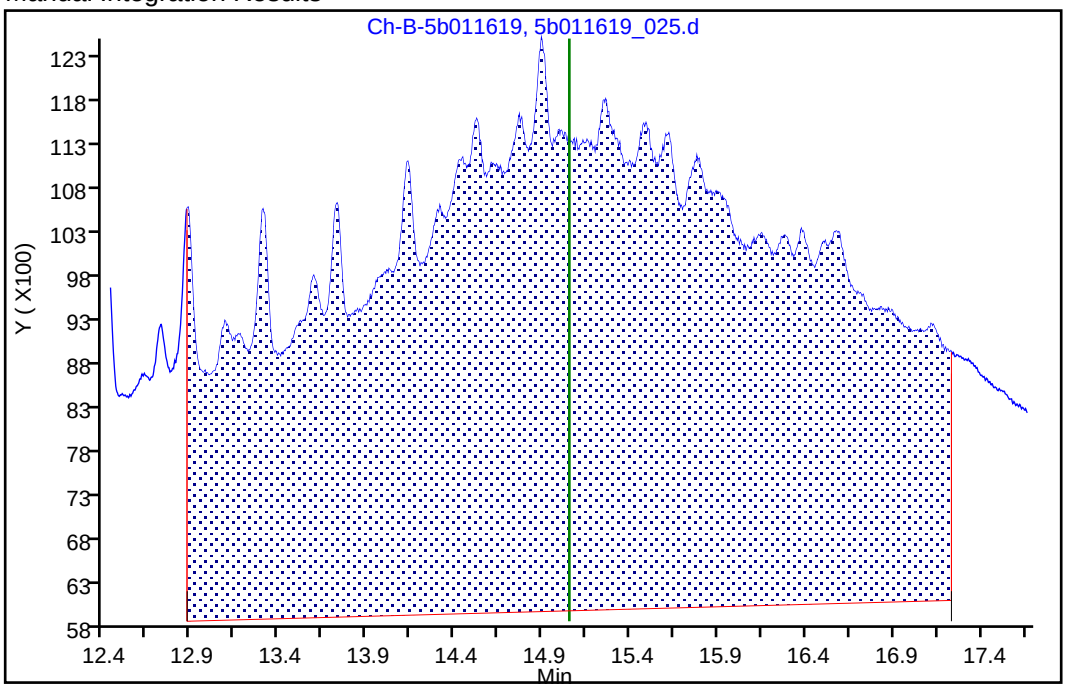
Processing Integration Results

RT: 15.05
Response: 5349856
Amount: 853.6969



Manual Integration Results

RT: 15.05
Response: 5504436
Amount: 878.3638



Reviewer: luj, 17-Jan-2019 12:27:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_029.d
Lims ID: 720-90673-E-3-D
Client ID: DG-AA7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 03:41:32 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 100 Name: 720-0056114-029
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:29:53 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:29:53

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.682	2.678	0.004	630	NC	
	23 n-Decane		3.894			ND	
A	1 C9-C13	4.631	(2.678-6.584)		24131	1.91	
A	21 Stoddard Solvent	4.631	(2.678-6.584)		24131	2.12	
A	57 C10-C12	4.840	(3.894-5.786)		14723	1.50	
	24 Dodecane	5.782	5.786	-0.004	897	NC	
A	3 C9 - C17	5.982	(2.678-9.286)		63034	4.46	
A	47 C9 - C18	6.271	(2.678-9.863)		104021	9.27	
A	60 C10-C16	6.276	(3.894-8.659)		46576	3.73	
A	15 Kerosene	6.548	(2.678-10.418)		145516	12.9	
A	25 C9-C19	6.548	(2.678-10.418)		145516	10.3	
	26 C13	6.568	6.584	-0.016	2181	NC	
$	27 n-Decanoic Acid (Surr)		7.194			ND	U
A	59 C12-C16	7.222	(5.786-8.659)		32750	3.34	
A	62 C10-C20	7.423	(3.894-10.952)		215201	21.9	
A	28 C9-C24	7.775	(2.678-12.871)		794510	80.9	
A	29 C9-C25	7.992	(2.678-13.305)		1001697	102.0	
A	54 C10-C23	8.157	(3.894-12.420)		560789	57.1	
A	4 C10-C24	8.382	(3.894-12.871)		789644	80.4	
A	16 C10-C25	8.599	(3.894-13.305)		996831	101.5	
	45 Hexadecane	8.664	8.659	0.005	1722	NC	
A	14 C10-C26	8.809	(3.894-13.724)		1137835	115.9	
A	67 C12-C22	8.868	(5.786-11.951)		400836	40.8	
A	5 Diesel	9.206	(3.894-14.518)		1667868	169.9	
A	32 C10-C28	9.206	(3.894-14.518)		1667868	169.9	
A	12 Unknown Hydrocarbons	9.206	(3.894-14.518)		1667868	NC	
A	30 C13-C22	9.267	(6.584-11.951)		397578	40.5	
	44 Heptadecane	9.304	9.286	0.018	7552	NC	
A	31 C12-C24	9.328	(5.786-12.871)		775818	79.0	
	49 n-Octadecane	9.893	9.863	0.030	7184	NC	
A	52 Mineral oil	9.956	(2.678-17.233)		4375976	402.8	
A	9 Crude Oil Range Organics (	9.732	(2.678-16.787)		3981138	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		3375500	NC	
33 C19	10.419	10.418	0.001	9764	NC	
A 64 C13-C28	10.551	(6.584-14.518)		1650784	168.1	
A 17 C10-C36	10.413	(4.040-16.787)		3368632	343.1	
A 13 C9-C40	10.725	(2.678-18.772)		5587714	552.7	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		5587714	NC	
A 58 C16-C24	10.765	(8.659-12.871)		743068	75.7	
61 icosane	10.953	10.952	0.001	19441	NC	
A 6 C10-C40	11.333	(3.894-18.772)		5580549	552.7	
$ 34 p-Terphenyl	11.920	11.921	-0.001	131333	11.7	
35 n-Docosane		11.951			ND	
A 18 C12-C40	12.279	(5.786-18.772)		5557855	552.2	
36 Tricosane	12.433	12.420	0.013	66376	NC	
A 66 C13-C40	12.678	(6.584-18.772)		5335476	537.9	
37 n-Tetracosane	12.868	12.871	-0.003	68822	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		3621589	490.8	
38 C25	13.296	13.305	-0.009	67562	NC	
A 19 C16-C40	13.715	(8.659-18.772)		5466285	546.1	
46 n-Hexacosane	13.725	13.724	0.001	78887	NC	
A 20 C19-C36	13.826	(10.418-17.233)		2264217	290.4	
A 55 C23-C32	14.188	(12.420-15.957)		2205140	512.0	
39 n-Octacosane	14.548	14.518	0.030	59933	NC	
65 C29	14.895	14.895	0.000	187760	NC	
A 40 C24-C36	15.052	(12.871-17.233)		3044212	485.8	
A 7 Motor Oil	15.052	(12.871-17.233)		3044212	485.8	
A 50 C25-C36	15.269	(13.305-17.233)		2838535	478.9	
A 10 C22-C40	15.361	(11.951-18.772)		4345773	490.3	
A 41 C23-C40	15.596	(12.420-18.772)		4328221	500.0	
A 8 C24-C40	15.821	(12.871-18.772)		4156143	496.7	
56 Dotriacontane	15.922	15.957	-0.035	118416	NC	
A 51 C28-C40	16.645	(14.518-18.772)		3224211	484.6	
A 63 C29-C40	16.833	(14.895-18.772)		2940004	482.2	
42 n-Hexatriacontane	17.277	17.233	0.044	2213842	NC	
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

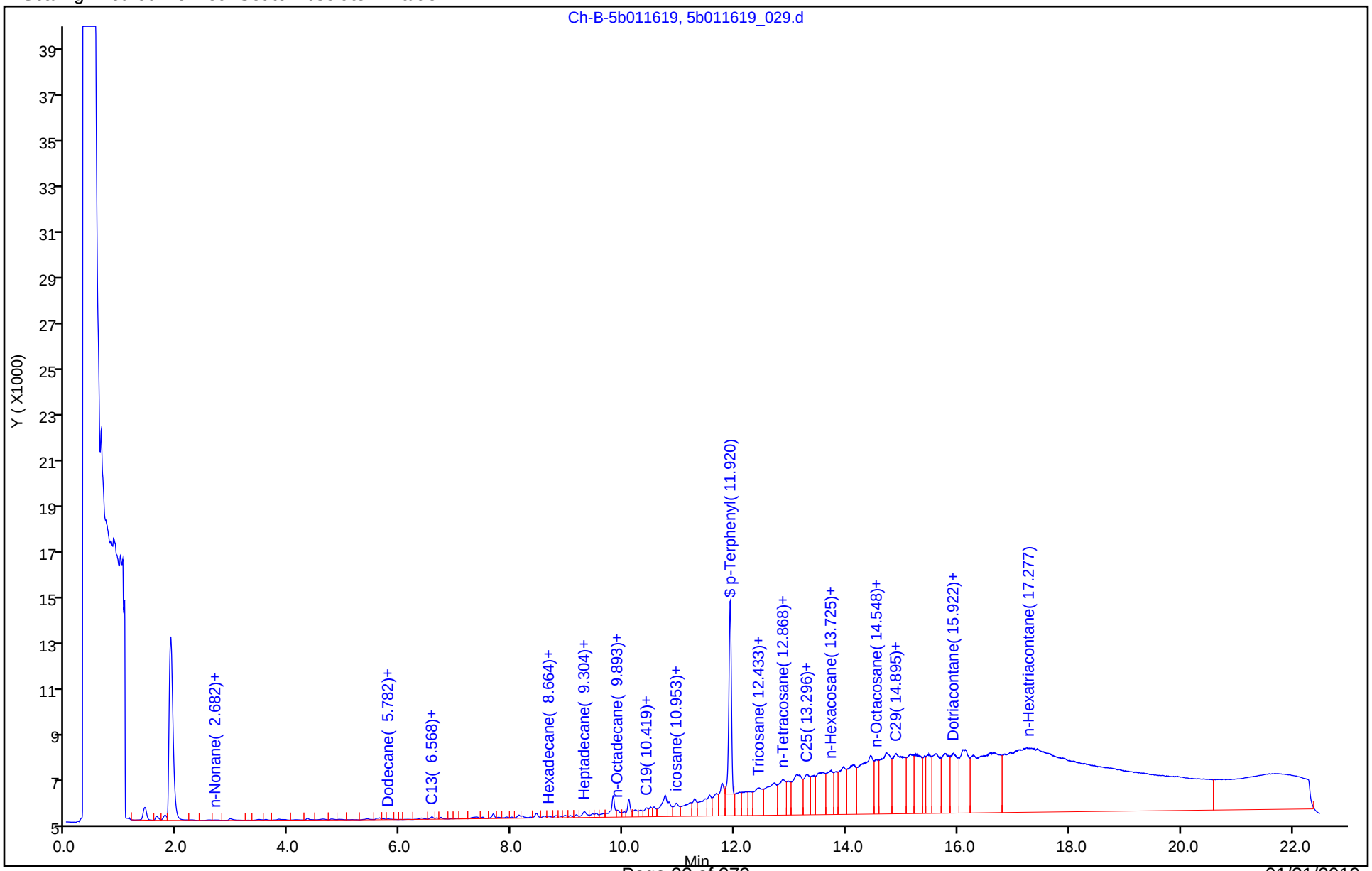
Report Date: 17-Jan-2019 12:29:54 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_029.d

Injection Date:	17-Jan-2019 03:41:32	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-3-D	Lab Sample ID:	720-90673-3	Worklist Smp#:	29
Client ID:	DG-AA7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_029.d				
Lims ID:	720-90673-E-3-D				
Client ID:	DG-AA7S-0.5-1				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 03:41:32	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 100 Name: 720-0056114-029				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:29:53	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:29:53

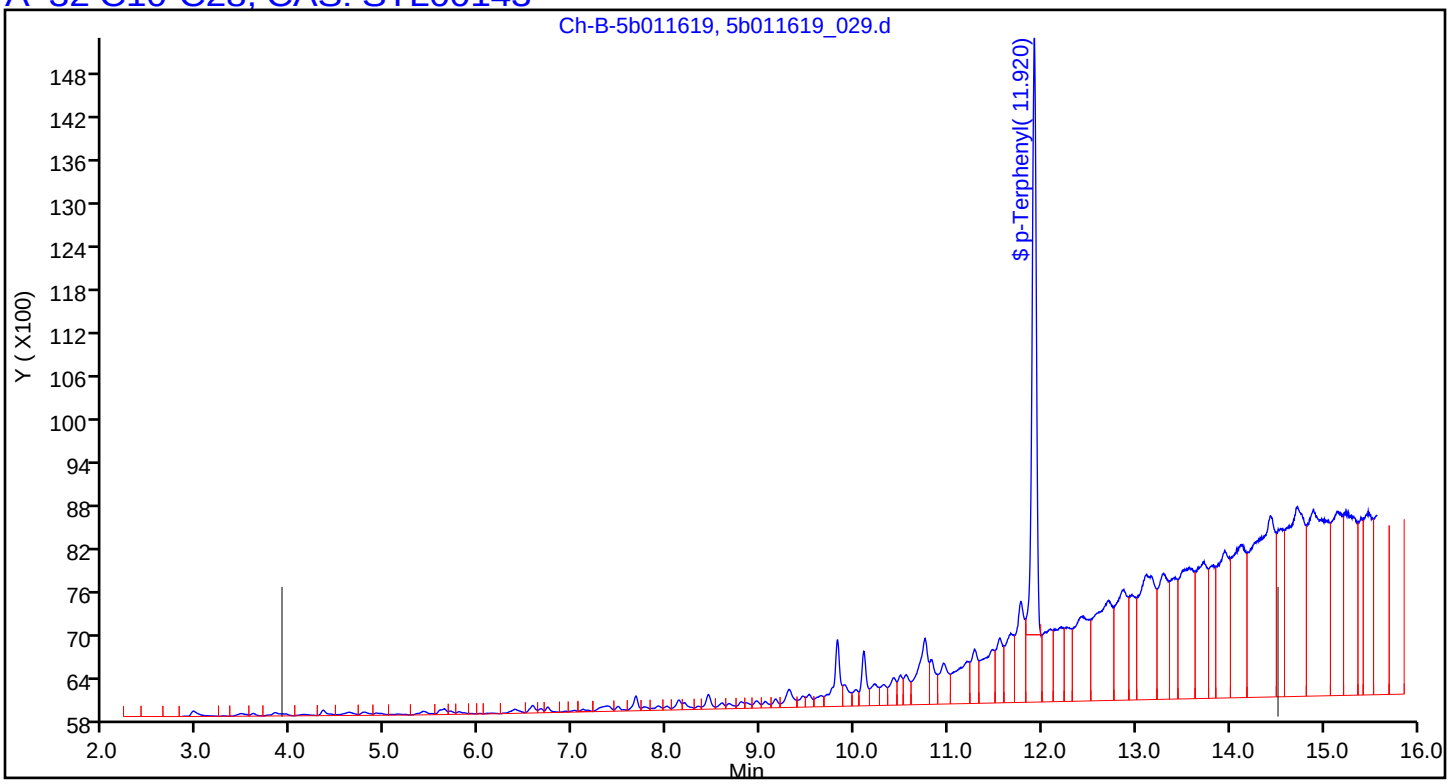
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	11.7	93.26

Report Date: 17-Jan-2019 12:29:55 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_029.d				
Injection Date:	17-Jan-2019 03:41:32	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-3-D	Lab Sample ID:	720-90673-3		
Client ID:	DG-AA7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

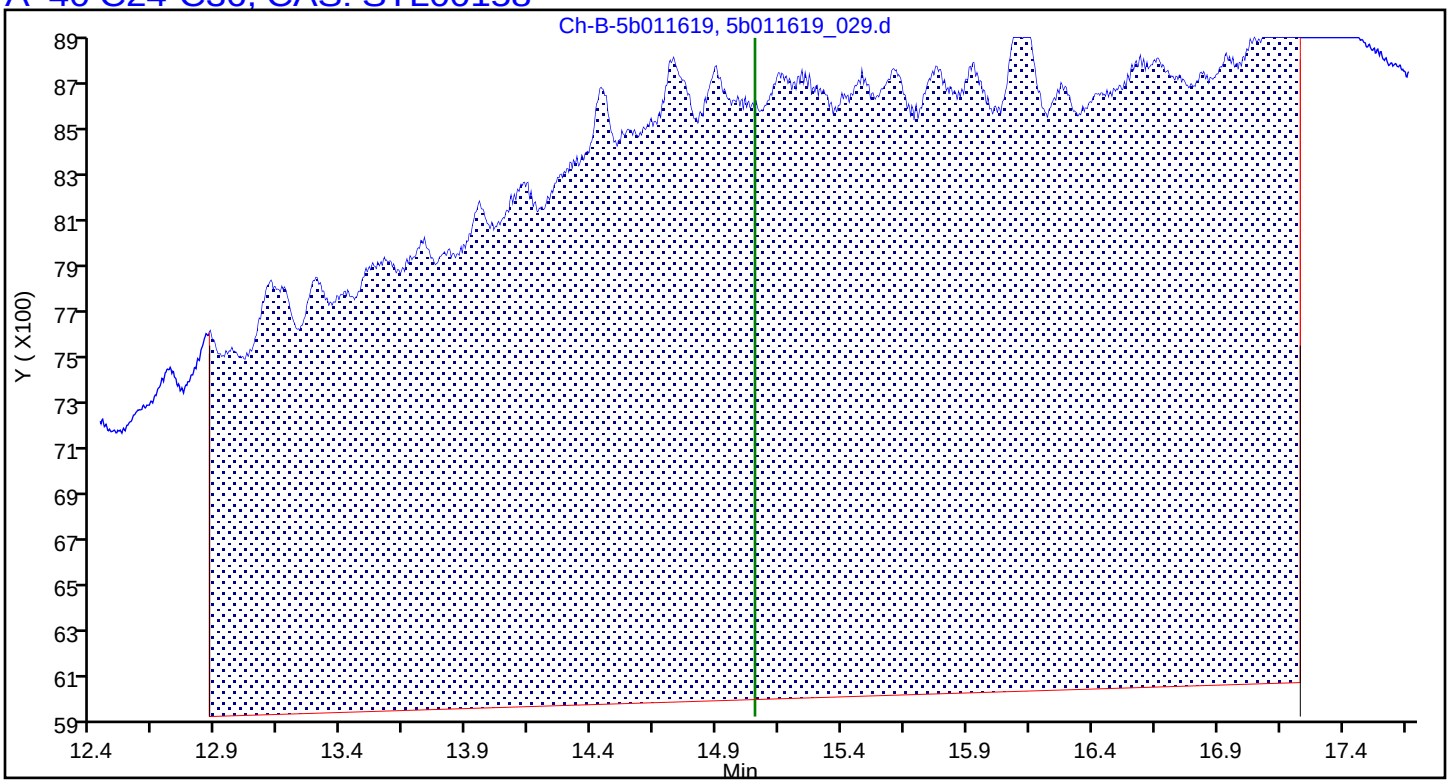


Report Date: 17-Jan-2019 12:29:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_029.d				
Injection Date:	17-Jan-2019 03:41:32	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-3-D	Lab Sample ID:	720-90673-3		
Client ID:	DG-AA7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_024.d
Lims ID: 720-90673-E-4-D
Client ID: DG-AA7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 01:15:09 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0056114-024
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:27:13 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:27:13

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.712	2.678	0.034	735	NC	
23 n-Decane	3.912	3.894	0.018	958	NC	
A 1 C9-C13	4.631	(2.678-6.584)		35160	2.78	M
A 21 Stoddard Solvent	4.631	(2.678-6.584)		35160	3.09	M
A 57 C10-C12	4.840	(3.894-5.786)		14987	1.53	M
24 Dodecane	5.773	5.786	-0.013	1012	NC	M
A 3 C9 - C17	5.982	(2.678-9.286)		96170	6.81	M
A 47 C9 - C18	6.271	(2.678-9.863)		126597	11.3	M
A 60 C10-C16	6.276	(3.894-8.659)		64299	5.15	M
A 15 Kerosene	6.548	(2.678-10.418)		185255	16.5	M
A 25 C9-C19	6.548	(2.678-10.418)		185255	13.1	M
26 C13	6.537	6.584	-0.047	1946	NC	M
$ 27 n-Decanoic Acid (Surr)		7.194			ND	MU
A 59 C12-C16	7.222	(5.786-8.659)		50324	5.13	M
A 62 C10-C20	7.423	(3.894-10.952)		223731	22.8	M
A 28 C9-C24	7.775	(2.678-12.871)		584927	59.6	M
A 29 C9-C25	7.992	(2.678-13.305)		683611	69.6	M
A 54 C10-C23	8.157	(3.894-12.420)		485823	49.5	M
A 4 C10-C24	8.382	(3.894-12.871)		570384	58.1	M
A 16 C10-C25	8.599	(3.894-13.305)		669068	68.1	M
45 Hexadecane	8.653	8.659	-0.006	2493	NC	M
A 14 C10-C26	8.809	(3.894-13.724)		775010	78.9	M
A 67 C12-C22	8.868	(5.786-11.951)		393656	40.1	M
A 5 Diesel	9.206	(3.894-14.518)		1042332	106.2	M
A 32 C10-C28	9.206	(3.894-14.518)		1042332	106.2	M
A 12 Unknown Hydrocarbons	9.206	(3.894-14.518)		1042332	NC	M
A 30 C13-C22	9.267	(6.584-11.951)		388960	39.6	M
44 Heptadecane	9.303	9.286	0.017	15750	NC	M
A 31 C12-C24	9.328	(5.786-12.871)		556409	56.7	M
49 n-Octadecane	9.907	9.863	0.044	15752	NC	M
A 52 Mineral oil	9.956	(2.678-17.233)		2809671	258.6	
A 9 Crude Oil Range Organics (	9.891	(2.678-17.103)		2747416	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		2370528	NC	M
33 C19	10.417	10.418	-0.001	11261	NC	M
A 64 C13-C28	10.551	(6.584-14.518)		1023661	104.3	M
A 17 C10-C36	10.499	(3.894-17.103)		2355985	240.0	M
A 13 C9-C40	10.725	(2.678-18.772)		3378594	334.2	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		3378594	NC	
A 58 C16-C24	10.765	(8.659-12.871)		508578	51.8	M
61 icosane	10.970	10.952	0.018	23747	NC	M
A 6 C10-C40	11.333	(3.894-18.772)		3362260	333.0	
$ 34 p-Terphenyl	11.920	11.921	-0.001	264304	23.5	
35 n-Docosane		11.951			ND	
A 18 C12-C40	12.279	(5.786-18.772)		3337573	331.6	
36 Tricosane	12.417	12.420	-0.003	30460	NC	M
A 66 C13-C40	12.678	(6.584-18.772)		3140699	316.7	
37 n-Tetracosane	12.867	12.871	-0.004	34120	NC	M
A 2 C16-C36 ORO	12.946	(8.659-17.233)		2157256	292.4	
38 C25	13.303	13.305	-0.002	38271	NC	M
A 19 C16-C40	13.715	(8.659-18.772)		3245925	324.3	
46 n-Hexacosane	13.720	13.724	-0.004	35287	NC	M
A 20 C19-C36	13.826	(10.418-17.233)		1729257	221.8	
A 55 C23-C32	14.188	(12.420-15.957)		1276656	296.4	
39 n-Octacosane	14.510	14.518	-0.008	34600	NC	M
65 C29	14.897	14.895	0.002	136738	NC	M
A 40 C24-C36	15.052	(12.871-17.233)		1847817	294.9	
A 7 Motor Oil	15.052	(12.871-17.233)		1847817	294.9	
A 50 C25-C36	15.269	(13.305-17.233)		1759935	297.0	
A 10 C22-C40	15.361	(11.951-18.772)		2240304	252.8	
A 41 C23-C40	15.596	(12.420-18.772)		2420611	279.6	
A 8 C24-C40	15.821	(12.871-18.772)		2341827	279.9	
56 Dotriacontane	15.870	15.957	-0.087	160820	NC	M
A 51 C28-C40	16.645	(14.518-18.772)		1888871	283.9	
A 63 C29-C40	16.833	(14.895-18.772)		1725620	283.0	
42 n-Hexatriacontane	17.340	17.233	0.107	944250	NC	M
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

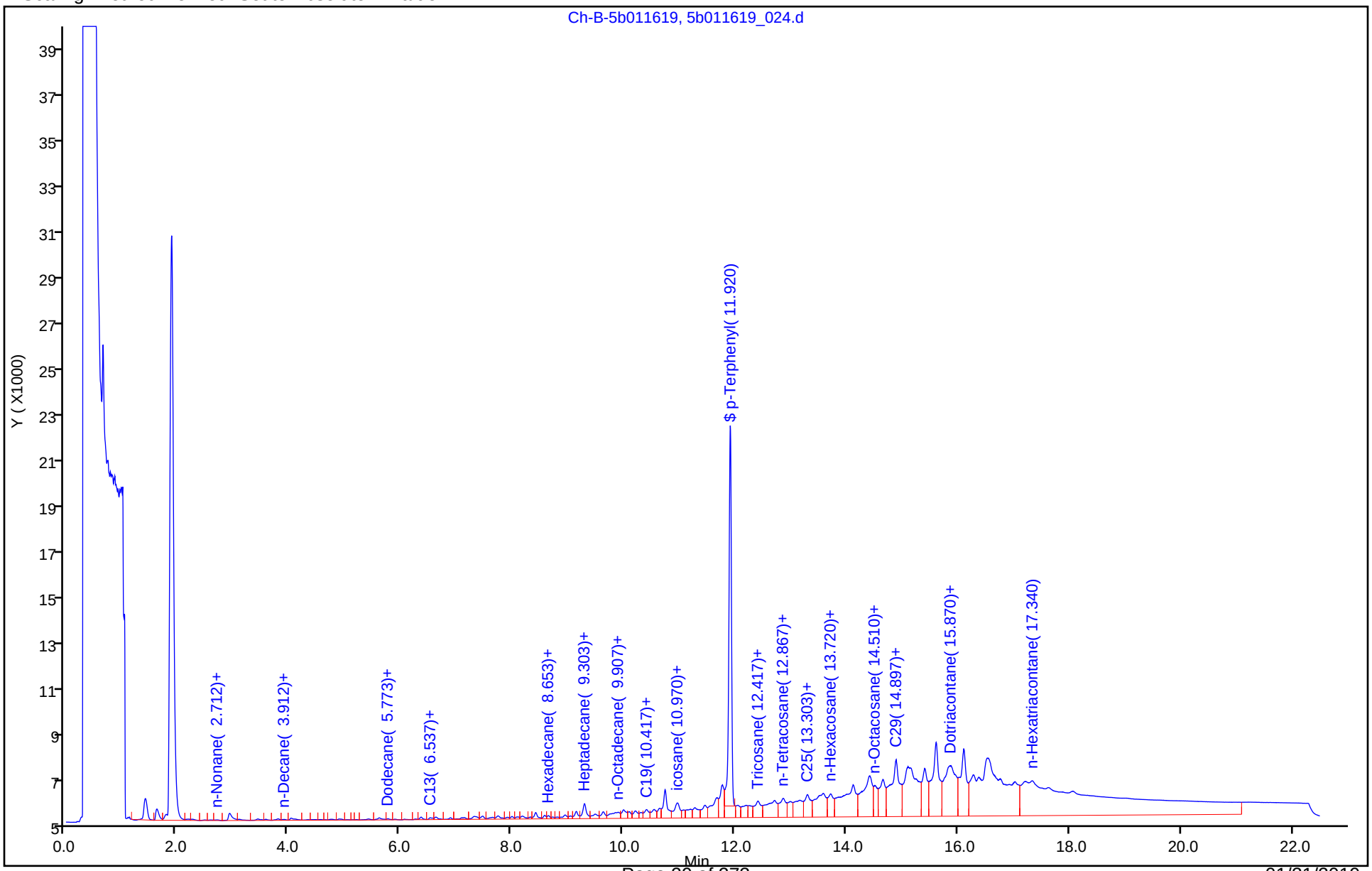
Report Date: 17-Jan-2019 12:27:14 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_024.d

Injection Date:	17-Jan-2019 01:15:09	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-4-D	Lab Sample ID:	720-90673-4	Worklist Smp#:	24
Client ID:	DG-AA7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_024.d				
Lims ID:	720-90673-E-4-D				
Client ID:	DG-AA7S-3.5-4				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 01:15:09	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0056114-024				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:27:13	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:27:13

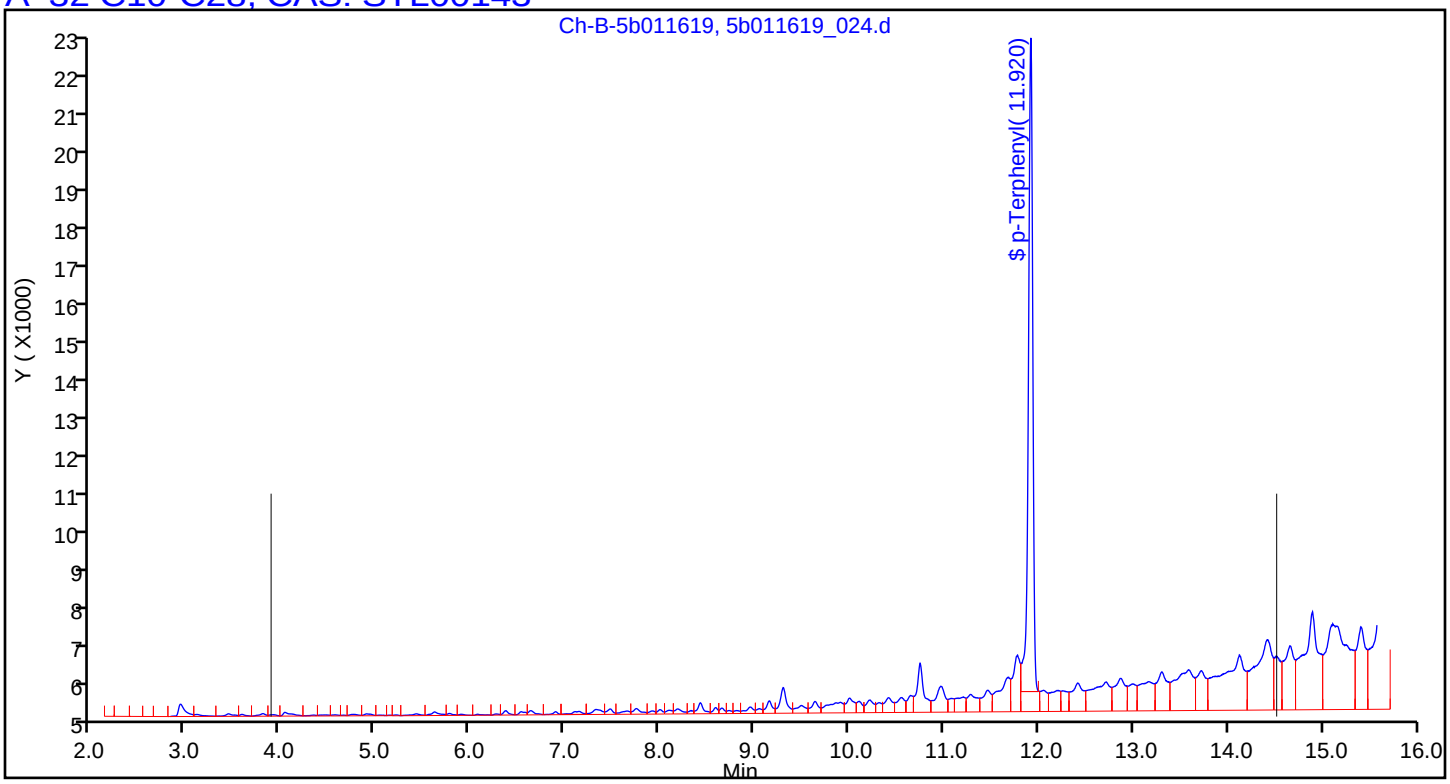
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	23.5	93.84

Report Date: 17-Jan-2019 12:27:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_024.d				
Injection Date:	17-Jan-2019 01:15:09	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-4-D	Lab Sample ID:	720-90673-4		
Client ID:	DG-AA7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

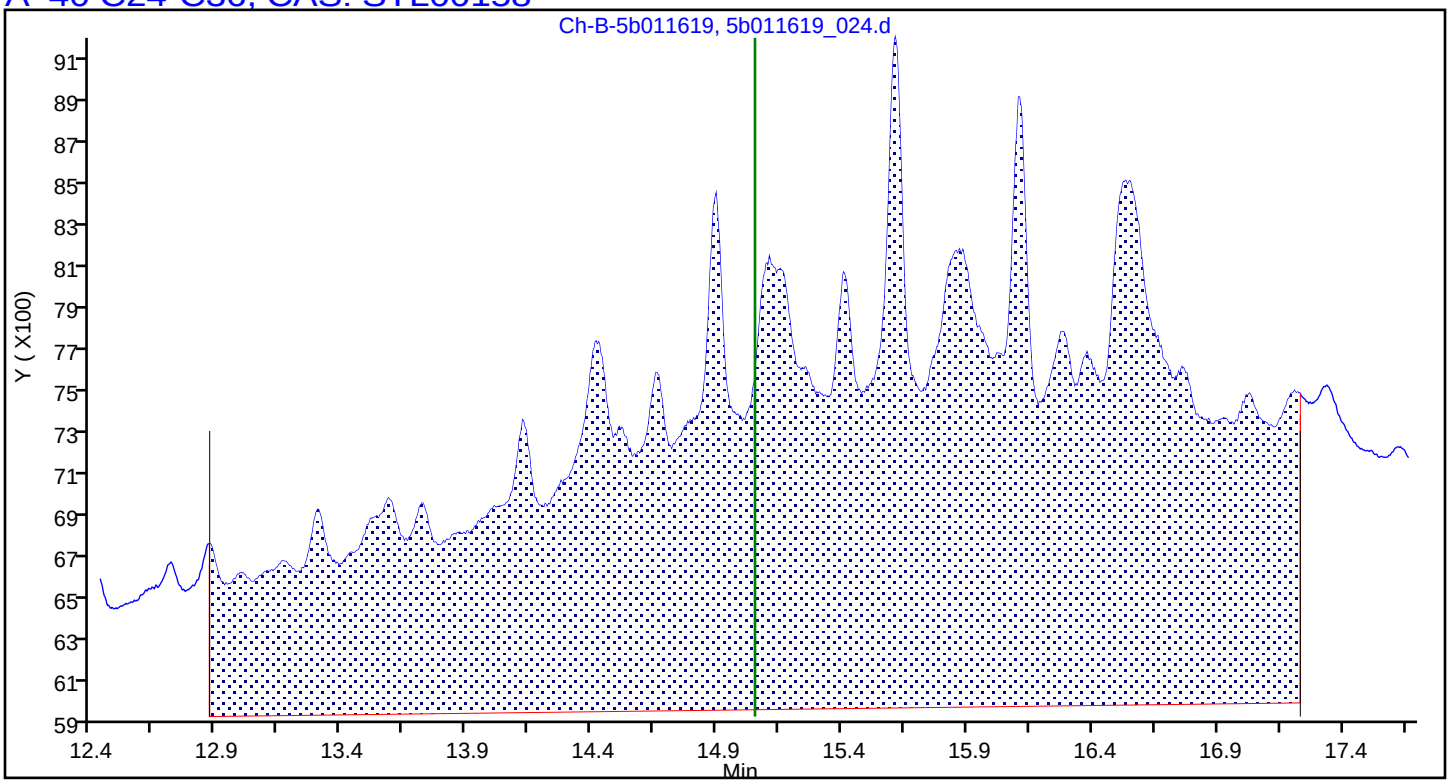


Report Date: 17-Jan-2019 12:27:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_024.d				
Injection Date:	17-Jan-2019 01:15:09	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-4-D	Lab Sample ID:	720-90673-4		
Client ID:	DG-AA7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

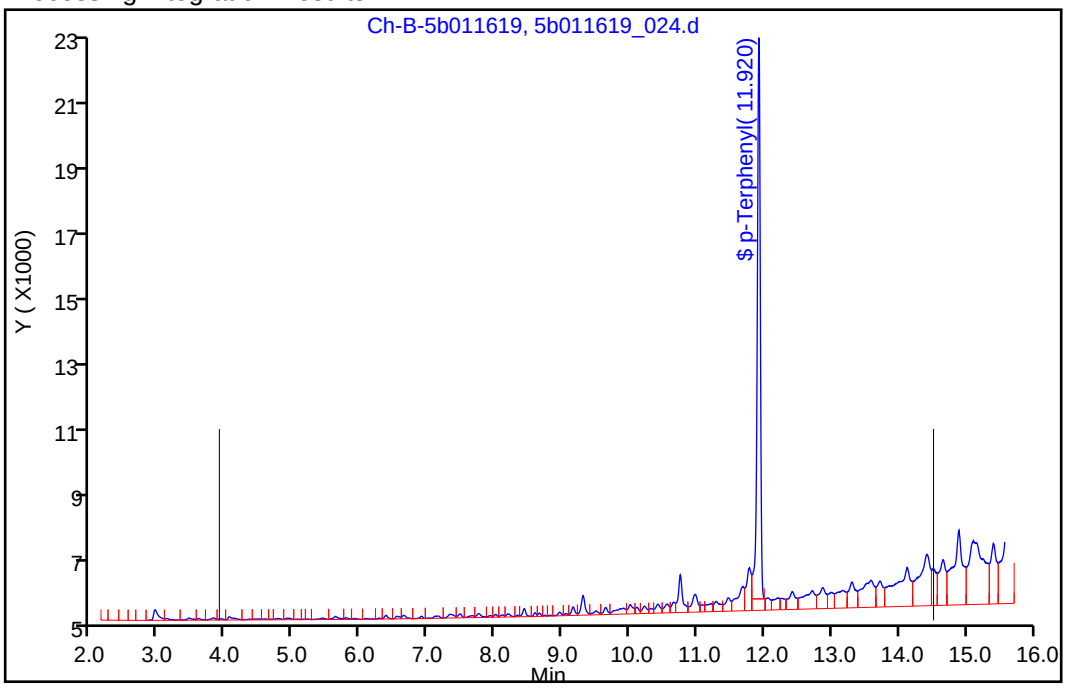
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Injection Date:	17-Jan-2019 01:15:09	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-4-D	Lab Sample ID:	720-90673-4		
Client ID:	DG-AA7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.206, CAS: STL00143

Signal: 1

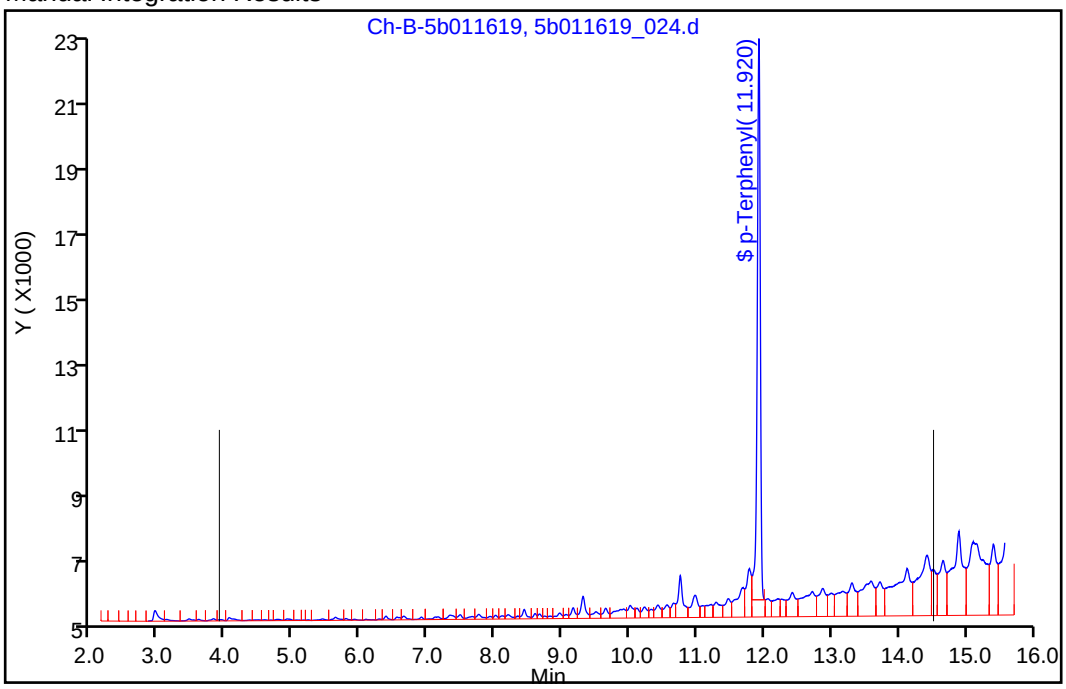
Processing Integration Results

RT: 9.21
Response: 730944
Amount: 74.447742



Manual Integration Results

RT: 9.21
Response: 1042332
Amount: 106.1631



Reviewer: luj, 17-Jan-2019 12:27:01

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_030.d
Lims ID: 720-90673-E-5-D
Client ID: DG-AC7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 04:10:44 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 108 Name: 720-0056114-030
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:30:29 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:30:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.720	2.678	0.042	802	NC	
23 n-Decane	3.929	3.894	0.035	979	NC	
A 1 C9-C13	4.631	(2.678-6.584)		38737	3.06	M
A 21 Stoddard Solvent	4.631	(2.678-6.584)		38737	3.41	M
A 57 C10-C12	4.840	(3.894-5.786)		19700	2.01	M
24 Dodecane	5.773	5.786	-0.013	1278	NC	M
A 3 C9 - C17	5.982	(2.678-9.286)		144112	10.2	M
A 47 C9 - C18	6.271	(2.678-9.863)		244055	21.7	M
A 60 C10-C16	6.276	(3.894-8.659)		102188	8.19	M
A 15 Kerosene	6.548	(2.678-10.418)		318983	28.4	M
A 25 C9-C19	6.548	(2.678-10.418)		318983	22.5	M
26 C13	6.563	6.584	-0.021	5078	NC	M
$ 27 n-Decanoic Acid (Surr)		7.194			ND	U
A 59 C12-C16	7.222	(5.786-8.659)		83766	8.53	M
A 62 C10-C20	7.423	(3.894-10.952)		468731	47.7	M
A 28 C9-C24	7.775	(2.678-12.871)		1599946	163.0	M
A 29 C9-C25	7.992	(2.678-13.305)		1997592	203.5	M
A 54 C10-C23	8.157	(3.894-12.420)		1284227	130.8	M
A 4 C10-C24	8.382	(3.894-12.871)		1591970	162.1	M
A 16 C10-C25	8.599	(3.894-13.305)		1989616	202.6	M
45 Hexadecane	8.663	8.659	0.004	5508	NC	M
A 14 C10-C26	8.809	(3.894-13.724)		2228569	227.0	M
A 67 C12-C22	8.868	(5.786-11.951)		972884	99.1	M
A 5 Diesel	9.206	(3.894-14.518)		3197714	325.7	M
A 32 C10-C28	9.206	(3.894-14.518)		3197714	325.7	M
A 12 Unknown Hydrocarbons	9.206	(3.894-14.518)		3197714	NC	M
A 30 C13-C22	9.267	(6.584-11.951)		965623	98.4	M
44 Heptadecane	9.300	9.286	0.014	18997	NC	M
A 31 C12-C24	9.328	(5.786-12.871)		1573548	160.3	M
49 n-Octadecane	9.817	9.863	-0.046	52508	NC	M
A 52 Mineral oil	9.956	(2.678-17.233)		7074556	651.2	
A 9 Crude Oil Range Organics (	9.956	(2.678-17.233)		7074556	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		10040897	NC	M
33 C19	10.420	10.418	0.002	26007	NC	M
A 64 C13-C28	10.551	(6.584-14.518)		3172031	323.1	M
A 17 C10-C36	10.564	(3.894-17.233)		10032921	1021.9	M
A 13 C9-C40	10.725	(2.678-18.772)		8627946	853.4	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		8627946	NC	
A 58 C16-C24	10.765	(8.659-12.871)		1489782	151.7	M
61 icosane	10.953	10.952	0.001	37639	NC	M
A 6 C10-C40	11.333	(3.894-18.772)		8619078	853.6	
$ 34 p-Terphenyl	11.920	11.921	-0.001	121964	10.8	
35 n-Docosane	12.030	11.951	0.080	33240	NC	M
A 18 C12-C40	12.279	(5.786-18.772)		8591619	853.5	
36 Tricosane	12.393	12.420	-0.027	95394	NC	M
A 66 C13-C40	12.678	(6.584-18.772)		8305697	837.4	
37 n-Tetracosane	12.863	12.871	-0.008	113564	NC	M
A 2 C16-C36 ORO	12.946	(8.659-17.233)		5825083	789.5	
38 C25	13.290	13.305	-0.015	114865	NC	M
A 19 C16-C40	13.715	(8.659-18.772)		8461706	845.4	
46 n-Hexacosane	13.727	13.724	0.003	138495	NC	M
A 20 C19-C36	13.826	(10.418-17.233)		4915766	630.4	
A 55 C23-C32	14.188	(12.420-15.957)		3744280	869.3	
39 n-Octacosane	14.567	14.518	0.049	103613	NC	M
65 C29	14.880	14.895	-0.015	254853	NC	M
A 40 C24-C36	15.052	(12.871-17.233)		4995561	797.2	
A 7 Motor Oil	15.052	(12.871-17.233)		4995561	797.2	
A 50 C25-C36	15.269	(13.305-17.233)		4640949	783.1	
A 10 C22-C40	15.361	(11.951-18.772)		6861054	774.1	
A 41 C23-C40	15.596	(12.420-18.772)		6721246	776.5	
A 8 C24-C40	15.821	(12.871-18.772)		6429091	768.3	
56 Dotriacontane	15.920	15.957	-0.037	168143	NC	M
A 51 C28-C40	16.645	(14.518-18.772)		4869855	732.0	
A 63 C29-C40	16.833	(14.895-18.772)		4360392	715.2	
42 n-Hexatriacontane	17.107	17.233	-0.126	3717808	NC	M
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

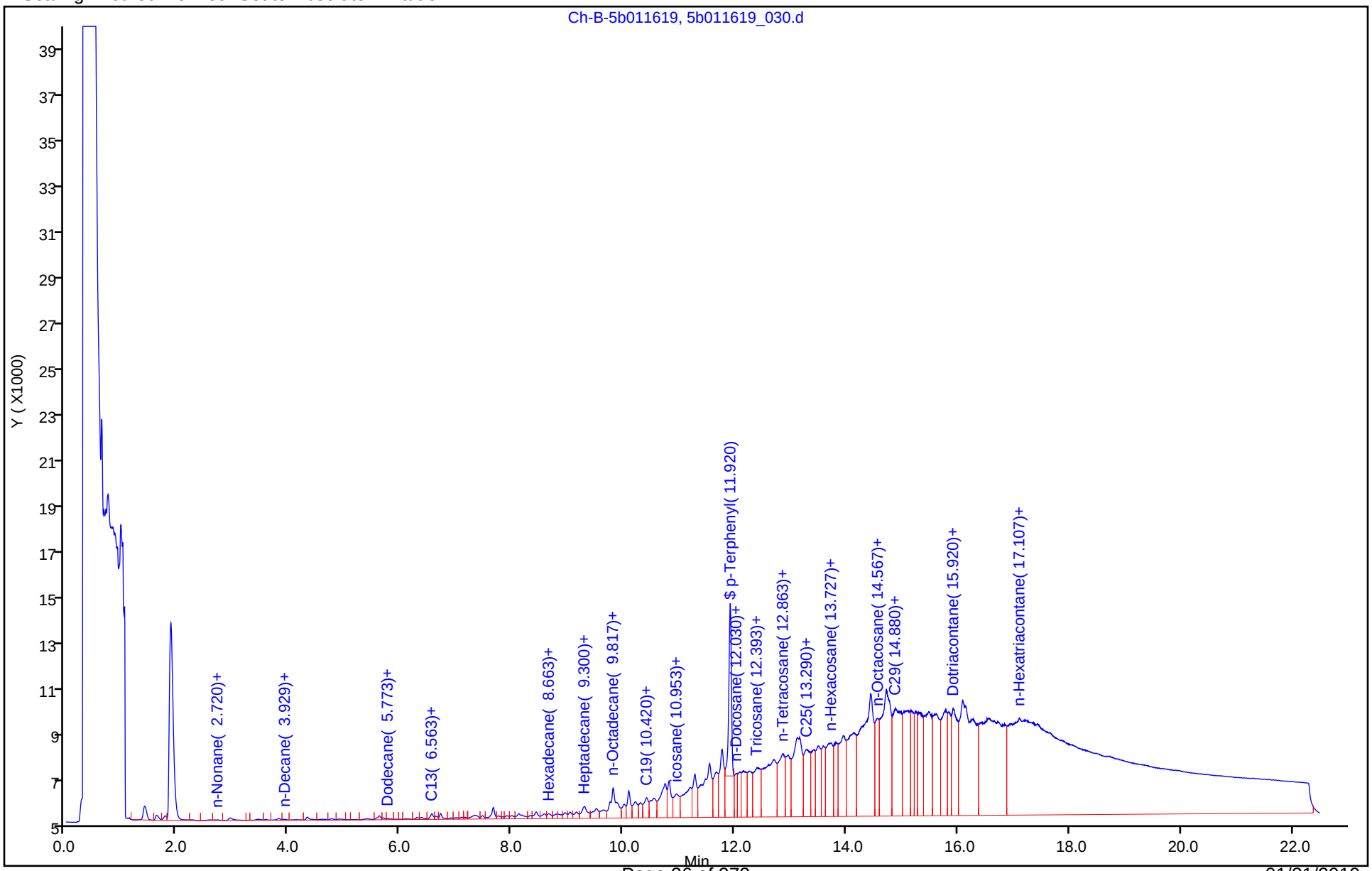
Report Date: 17-Jan-2019 12:30:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_030.d

Injection Date:	17-Jan-2019 04:10:44	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-5-D	Lab Sample ID:	720-90673-5	Worklist Smp#:	30
Client ID:	DG-AC7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_030.d				
Lims ID:	720-90673-E-5-D				
Client ID:	DG-AC7S-0.5-1				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 04:10:44	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 108 Name: 720-0056114-030				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:30:29	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:30:29

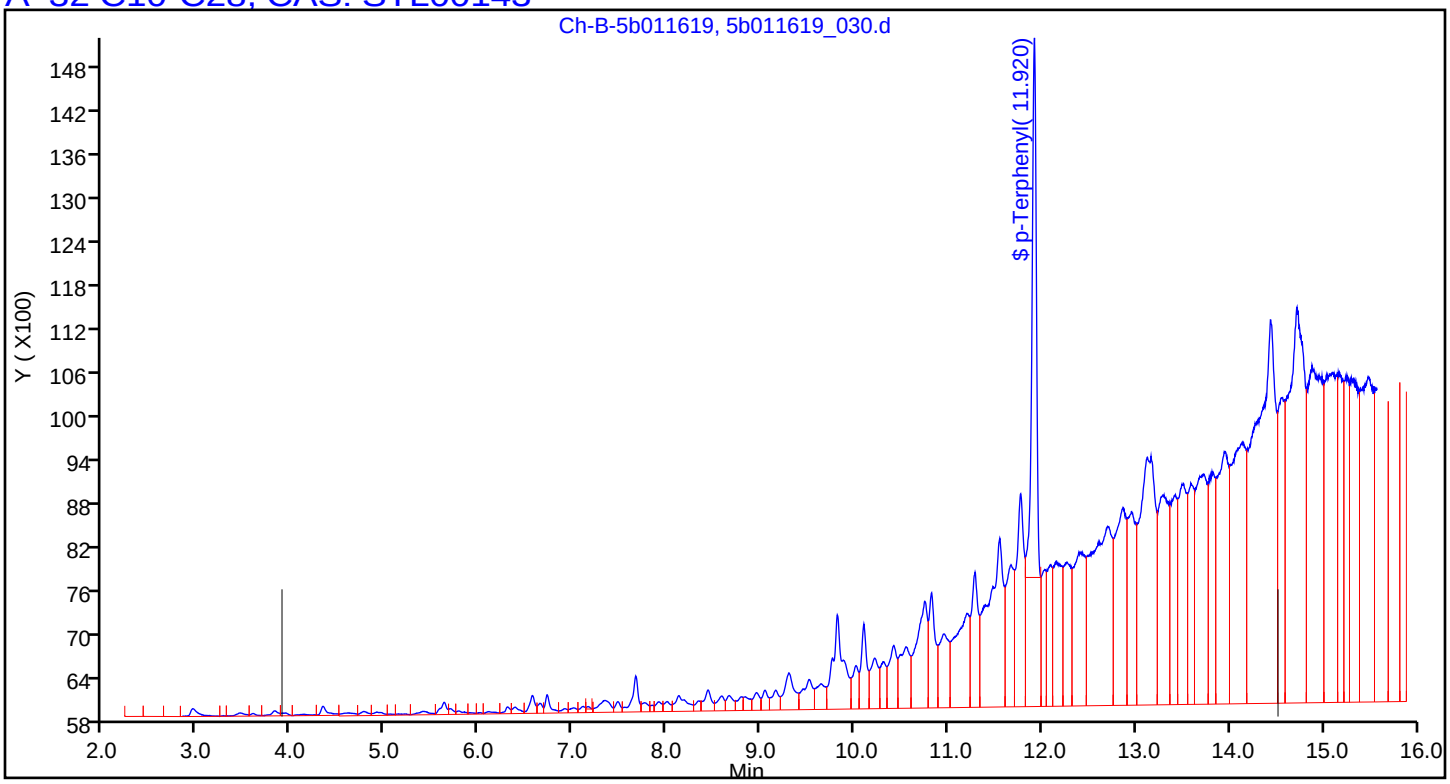
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	10.8	86.61

Report Date: 17-Jan-2019 12:30:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_030.d				
Injection Date:	17-Jan-2019 04:10:44	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-5-D	Lab Sample ID:	720-90673-5		
Client ID:	DG-AC7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

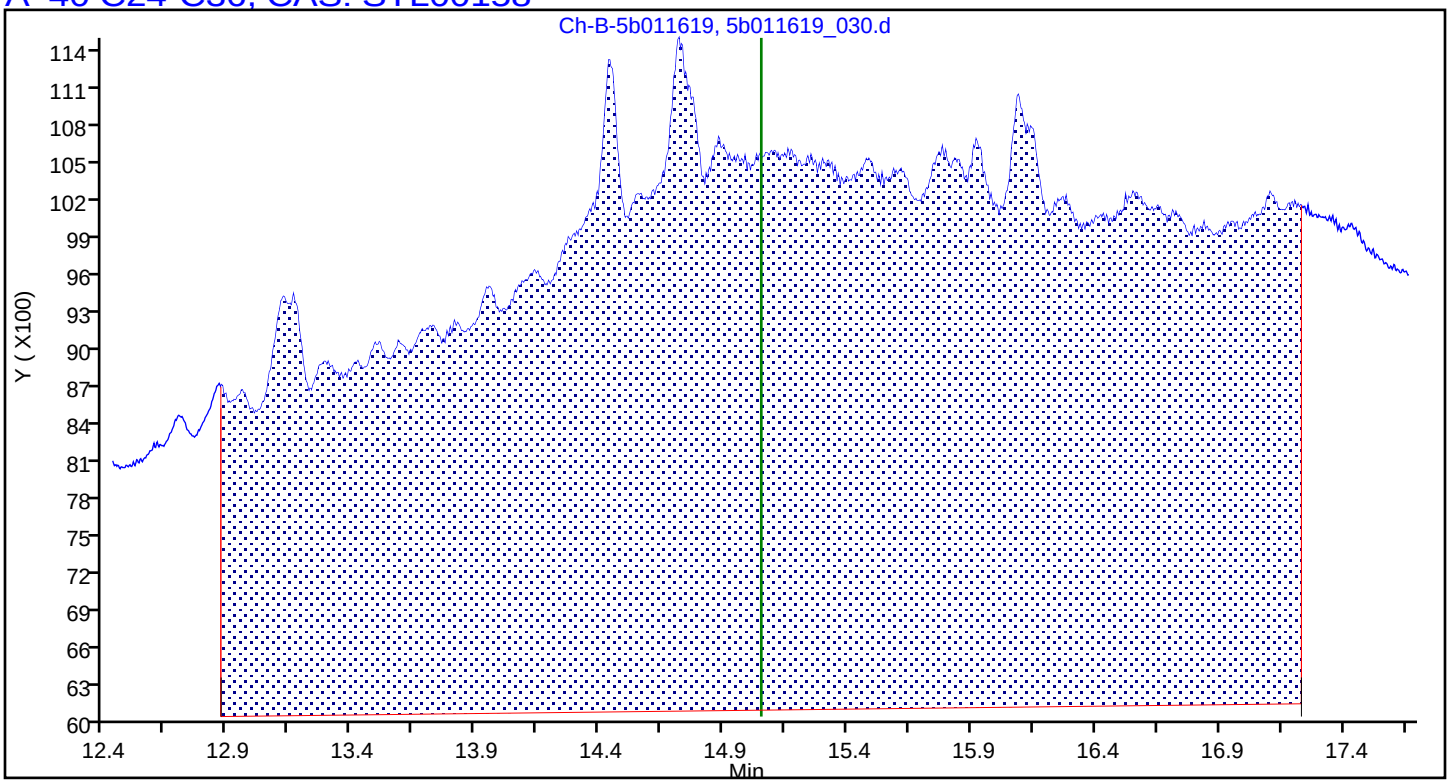


Report Date: 17-Jan-2019 12:30:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_030.d				
Injection Date:	17-Jan-2019 04:10:44	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-5-D	Lab Sample ID:	720-90673-5		
Client ID:	DG-AC7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

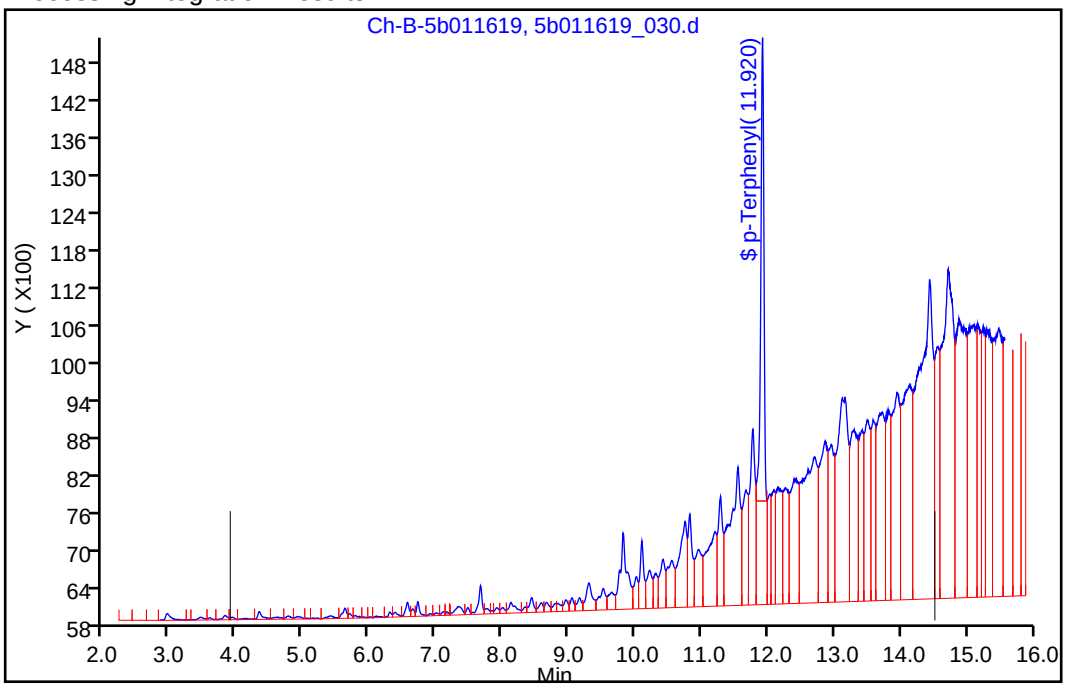
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_030.d				
Injection Date:	17-Jan-2019 04:10:44	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-5-D	Lab Sample ID:	720-90673-5		
Client ID:	DG-AC7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.206, CAS: STL00143

Signal: 1

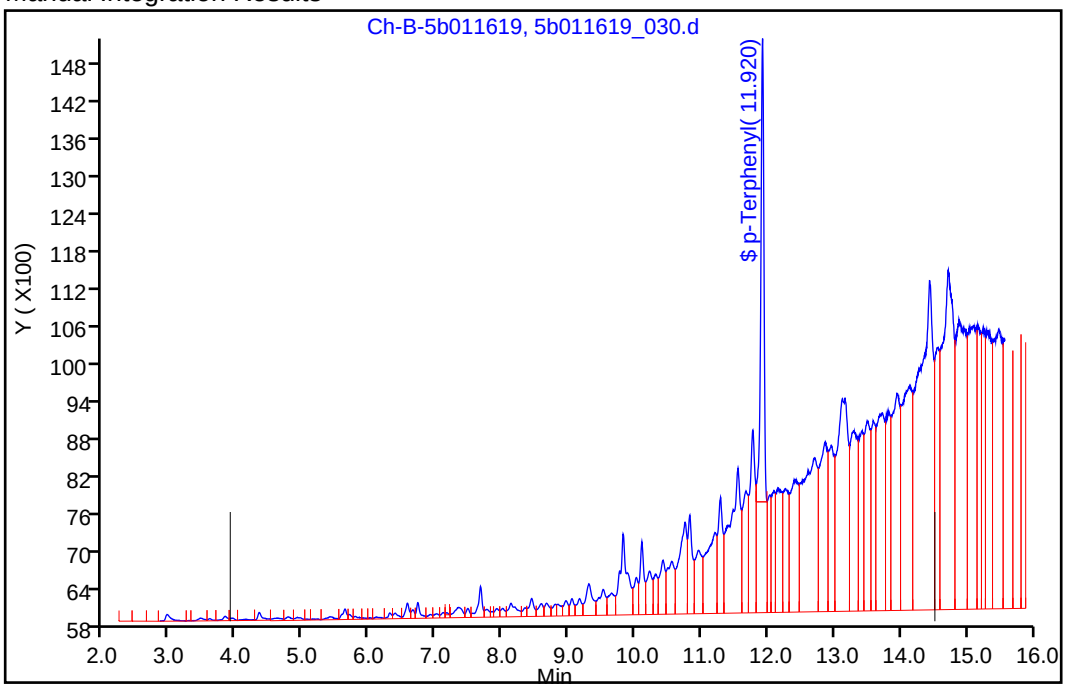
Processing Integration Results

RT: 9.21
Response: 2915224
Amount: 296.9199



Manual Integration Results

RT: 9.21
Response: 3197714
Amount: 325.6920



Reviewer: luj, 17-Jan-2019 12:30:14

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_022.d
Lims ID: 720-90673-E-6-D
Client ID: DG-AC7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 00:16:16 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 130 Name: 720-0056114-022
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:24:05 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:24:05

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.717	2.678	0.039	1268	NC	
	23 n-Decane	3.907	3.894	0.013	1871	NC	
A	1 C9-C13	4.631	(2.678-6.584)		84138	6.64	
A	21 Stoddard Solvent	4.631	(2.678-6.584)		84138	7.40	
A	57 C10-C12	4.840	(3.894-5.786)		51162	5.21	
	24 Dodecane	5.780	5.786	-0.006	3501	NC	
A	3 C9 - C17	5.982	(2.678-9.286)		229149	16.2	
A	47 C9 - C18	6.271	(2.678-9.863)		295065	26.3	
A	60 C10-C16	6.276	(3.894-8.659)		157765	12.6	
A	15 Kerosene	6.548	(2.678-10.418)		338639	30.1	
A	25 C9-C19	6.548	(2.678-10.418)		338639	23.9	
	26 C13	6.577	6.584	-0.007	4734	NC	
$	27 n-Decanoic Acid (Surr)		7.194			ND	U
A	59 C12-C16	7.222	(5.786-8.659)		110104	11.2	
A	62 C10-C20	7.423	(3.894-10.952)		563562	57.4	
A	28 C9-C24	7.775	(2.678-12.871)		1427512	145.4	
A	29 C9-C25	7.992	(2.678-13.305)		1602493	163.2	
A	54 C10-C23	8.157	(3.894-12.420)		1201484	122.4	
A	4 C10-C24	8.382	(3.894-12.871)		1409322	143.5	
A	16 C10-C25	8.599	(3.894-13.305)		1584303	161.4	
	45 Hexadecane	8.655	8.659	-0.005	11536	NC	
A	14 C10-C26	8.809	(3.894-13.724)		1763308	179.6	
A	67 C12-C22	8.868	(5.786-11.951)		883330	90.0	
A	5 Diesel	9.206	(3.894-14.518)		2115092	215.4	
A	32 C10-C28	9.206	(3.894-14.518)		2115092	215.4	
A	12 Unknown Hydrocarbons	9.206	(3.894-14.518)		2115092	NC	
A	30 C13-C22	9.267	(6.584-11.951)		869777	88.6	
	44 Heptadecane	9.277	9.286	-0.009	25290	NC	
A	31 C12-C24	9.328	(5.786-12.871)		1361661	138.7	
	49 n-Octadecane	9.858	9.863	-0.005	20138	NC	
A	52 Mineral oil	9.956	(2.678-17.233)		3595447	331.0	
A	9 Crude Oil Range Organics (	9.956	(2.678-17.233)		3595447	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		4161048	NC	
33 C19	10.419	10.418	0.001	43312	NC	
A 64 C13-C28	10.551	(6.584-14.518)		2053878	209.2	
A 17 C10-C36	10.564	(3.894-17.233)		4142858	422.0	
A 13 C9-C40	10.725	(2.678-18.772)		4094955	405.0	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		4094955	NC	
A 58 C16-C24	10.765	(8.659-12.871)		1263093	128.6	
61 icosane	10.951	10.952	-0.001	43313	NC	
A 6 C10-C40	11.333	(3.894-18.772)		4075733	403.6	
$ 34 p-Terphenyl	11.917	11.921	-0.004	164727	14.6	
35 n-Docosane		11.951			ND	
A 18 C12-C40	12.279	(5.786-18.772)		4013199	398.7	
36 Tricosane	12.418	12.420	-0.002	109887	NC	
A 66 C13-C40	12.678	(6.584-18.772)		3688476	371.9	
37 n-Tetracosane	12.869	12.871	-0.002	113829	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		2286312	309.9	
38 C25	13.303	13.305	-0.002	91703	NC	
A 19 C16-C40	13.715	(8.659-18.772)		3860048	385.6	
46 n-Hexacosane	13.722	13.724	-0.002	75779	NC	
A 20 C19-C36	13.826	(10.418-17.233)		2331224	299.0	
A 55 C23-C32	14.188	(12.420-15.957)		1515163	351.8	
39 n-Octacosane	14.516	14.518	-0.002	60571	NC	
65 C29	14.894	14.895	-0.001	110448	NC	
A 40 C24-C36	15.052	(12.871-17.233)		1771057	282.6	
A 7 Motor Oil	15.052	(12.871-17.233)		1771057	282.6	
A 50 C25-C36	15.269	(13.305-17.233)		1589221	268.1	
A 10 C22-C40	15.361	(11.951-18.772)		2385256	269.1	
A 41 C23-C40	15.596	(12.420-18.772)		2366432	273.4	
A 8 C24-C40	15.821	(12.871-18.772)		2177212	260.2	
56 Dotriacontane	15.936	15.957	-0.021	95883	NC	
A 51 C28-C40	16.645	(14.518-18.772)		1467817	220.6	
A 63 C29-C40	16.833	(14.895-18.772)		1297996	212.9	
42 n-Hexatriacontane		17.233			ND	
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

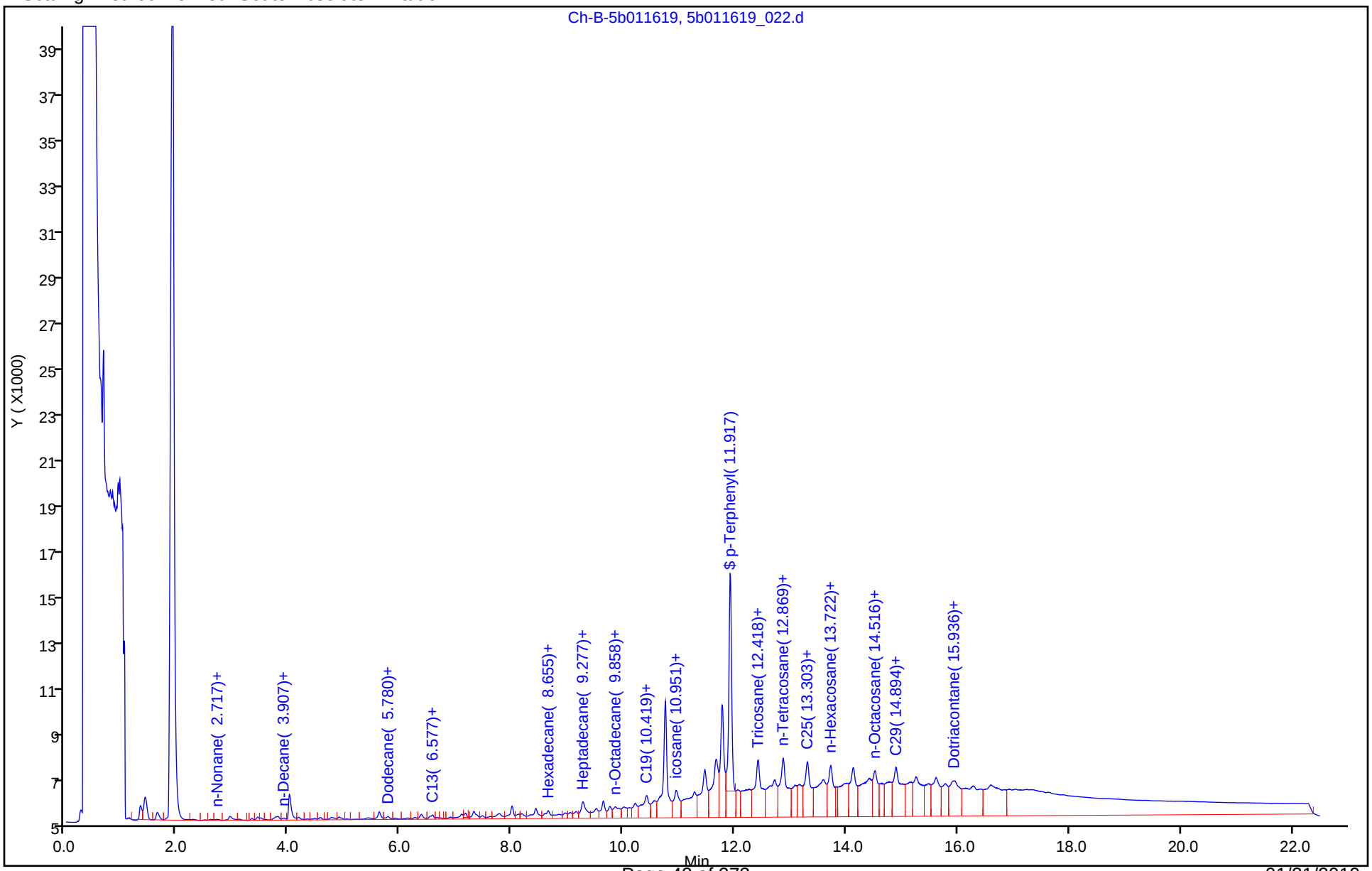
Report Date: 17-Jan-2019 12:24:06 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_022.d

Injection Date:	17-Jan-2019 00:16:16	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-6-D	Lab Sample ID:	720-90673-6	Worklist Smp#:	22
Client ID:	DG-AC7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_022.d				
Lims ID:	720-90673-E-6-D				
Client ID:	DG-AC7S-3.5-4				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 00:16:16	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 130 Name: 720-0056114-022				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:24:05	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:24:05

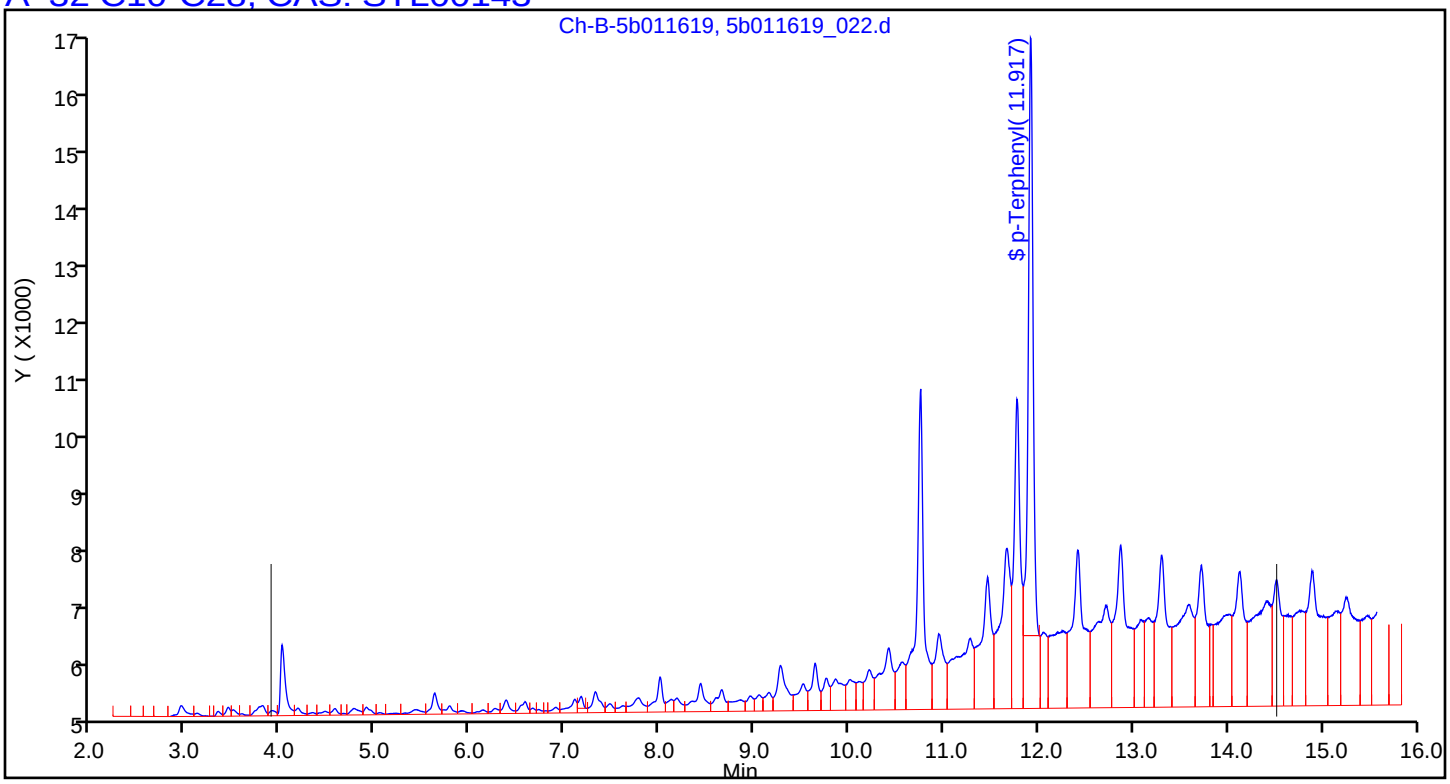
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	14.6	58.49

Report Date: 17-Jan-2019 12:24:06 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_022.d				
Injection Date:	17-Jan-2019 00:16:16	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-6-D	Lab Sample ID:	720-90673-6		
Client ID:	DG-AC7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

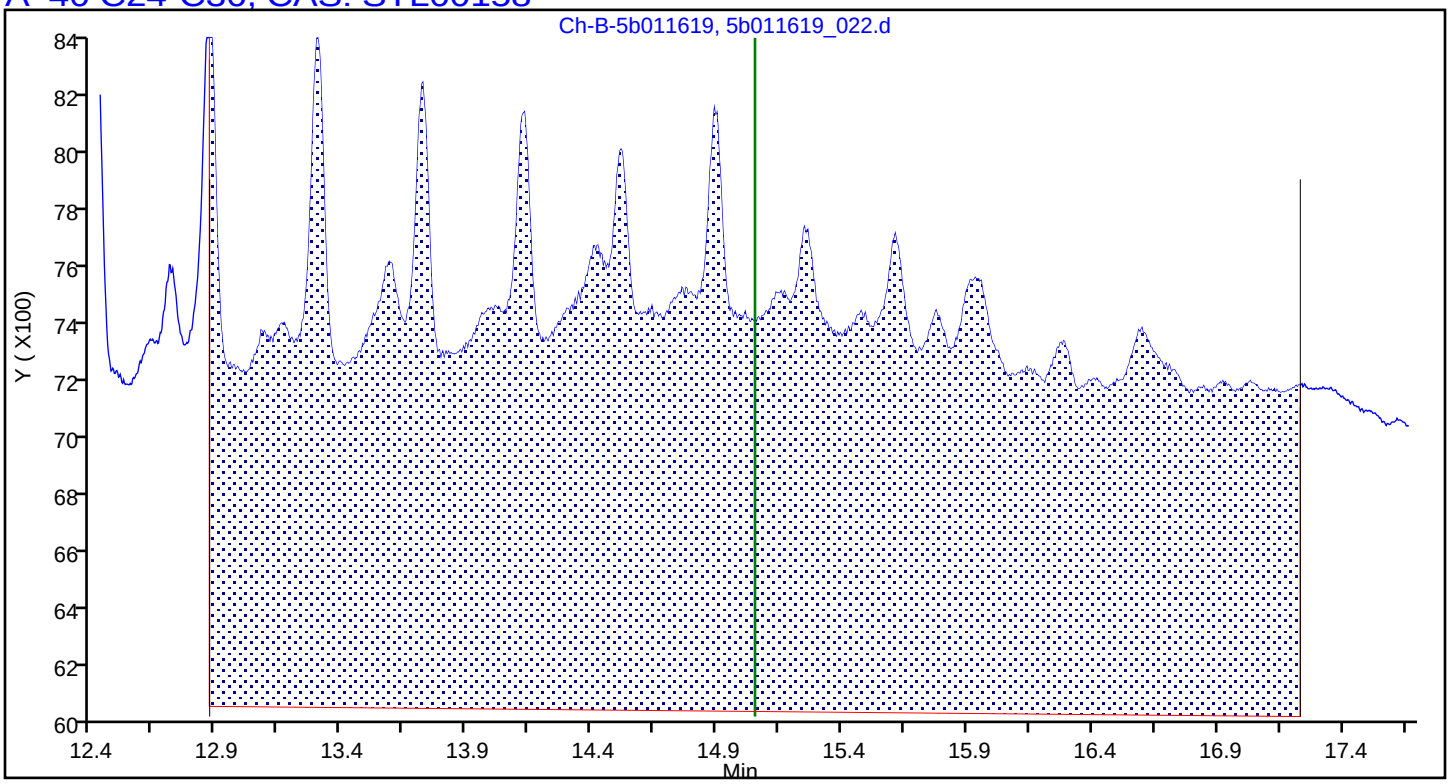


Report Date: 17-Jan-2019 12:24:07 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_022.d				
Injection Date:	17-Jan-2019 00:16:16	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-6-D	Lab Sample ID:	720-90673-6		
Client ID:	DG-AC7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_031.d
Lims ID: 720-90673-E-7-D
Client ID: DUP-47
Sample Type: Client
Inject. Date: 17-Jan-2019 04:39:56 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 108 Name: 720-0056114-031
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:31:16 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:31:16

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.721	2.678	0.043	727	NC	
	23 n-Decane	3.897	3.894	0.003	793	NC	
A	1 C9-C13	4.631	(2.678-6.584)		26690	2.11	
A	21 Stoddard Solvent	4.631	(2.678-6.584)		26690	2.35	
A	57 C10-C12	4.840	(3.894-5.786)		12843	1.31	
	24 Dodecane	5.782	5.786	-0.004	964	NC	
A	3 C9 - C17	5.982	(2.678-9.286)		111030	7.86	
A	47 C9 - C18	6.271	(2.678-9.863)		202261	18.0	
A	60 C10-C16	6.276	(3.894-8.659)		65938	5.28	
A	15 Kerosene	6.548	(2.678-10.418)		293209	26.1	
A	25 C9-C19	6.548	(2.678-10.418)		293209	20.7	
	26 C13	6.568	6.584	-0.016	3067	NC	
$	27 n-Decanoic Acid (Surr)		7.194			ND	U
A	59 C12-C16	7.222	(5.786-8.659)		54059	5.51	
A	62 C10-C20	7.423	(3.894-10.952)		444426	45.3	
A	28 C9-C24	7.775	(2.678-12.871)		1512067	154.0	
A	29 C9-C25	7.992	(2.678-13.305)		1831829	186.6	
A	54 C10-C23	8.157	(3.894-12.420)		1132738	115.4	
A	4 C10-C24	8.382	(3.894-12.871)		1504232	153.2	
A	16 C10-C25	8.599	(3.894-13.305)		1823994	185.8	
	45 Hexadecane	8.659	8.659	0.000	6939	NC	
A	14 C10-C26	8.809	(3.894-13.724)		2026544	206.4	
A	67 C12-C22	8.868	(5.786-11.951)		837509	85.3	
A	5 Diesel	9.206	(3.894-14.518)		2814037	286.6	
A	32 C10-C28	9.206	(3.894-14.518)		2814037	286.6	
A	12 Unknown Hydrocarbons	9.206	(3.894-14.518)		2814037	NC	
A	30 C13-C22	9.267	(6.584-11.951)		833600	84.9	
	44 Heptadecane	9.303	9.286	0.017	24974	NC	
A	31 C12-C24	9.328	(5.786-12.871)		1492353	152.0	
	49 n-Octadecane	9.899	9.863	0.036	18365	NC	
A	52 Mineral oil	9.956	(2.678-17.233)		6444775	593.2	
A	9 Crude Oil Range Organics (	9.956	(2.678-17.233)		6444775	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		8659624	NC	
33 C19	10.418	10.418	0.000	31291	NC	
A 64 C13-C28	10.551	(6.584-14.518)		2798249	285.0	
A 17 C10-C36	10.564	(3.894-17.233)		8651789	881.2	
A 13 C9-C40	10.725	(2.678-18.772)		7889163	780.3	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		7889163	NC	
A 58 C16-C24	10.765	(8.659-12.871)		1438294	146.5	
61 icosane	10.954	10.952	0.002	42401	NC	
A 6 C10-C40	11.333	(3.894-18.772)		7880291	780.4	
$ 34 p-Terphenyl	11.920	11.921	-0.001	129213	11.5	
35 n-Docosane		11.951			ND	
A 18 C12-C40	12.279	(5.786-18.772)		7858601	780.7	
36 Tricosane	12.426	12.420	0.006	118578	NC	
A 66 C13-C40	12.678	(6.584-18.772)		7613571	767.6	
37 n-Tetracosane	12.868	12.871	-0.003	111882	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		5060484	685.8	
38 C25	13.303	13.305	-0.002	103670	NC	
A 19 C16-C40	13.715	(8.659-18.772)		7745058	773.8	
46 n-Hexacosane	13.726	13.724	0.002	100924	NC	
A 20 C19-C36	13.826	(10.418-17.233)		4271604	547.8	
A 55 C23-C32	14.188	(12.420-15.957)		3268241	758.8	
39 n-Octacosane	14.442	14.518	-0.076	324371	NC	
65 C29	14.895	14.895	0.000	139165	NC	
A 40 C24-C36	15.052	(12.871-17.233)		4328468	690.7	
A 7 Motor Oil	15.052	(12.871-17.233)		4328468	690.7	
A 50 C25-C36	15.269	(13.305-17.233)		4022844	678.8	
A 10 C22-C40	15.361	(11.951-18.772)		6049749	682.5	
A 41 C23-C40	15.596	(12.420-18.772)		5917243	683.6	
A 8 C24-C40	15.821	(12.871-18.772)		5644006	674.5	
56 Dotriacontane	15.922	15.957	-0.035	150571	NC	
A 51 C28-C40	16.645	(14.518-18.772)		4298053	646.0	
A 63 C29-C40	16.833	(14.895-18.772)		3863253	633.7	
42 n-Hexatriacontane	17.212	17.233	-0.021	3242922	NC	
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

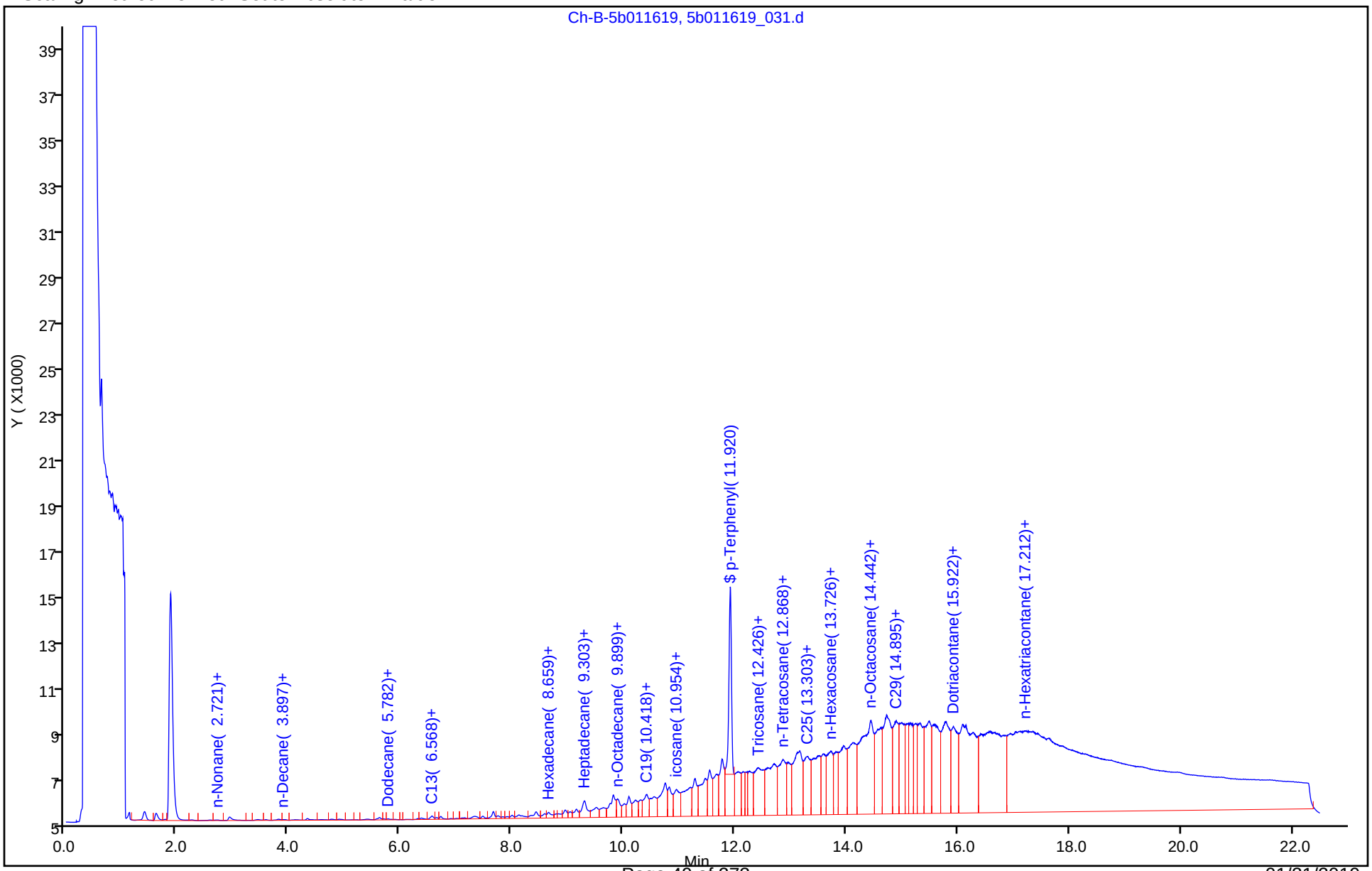
Report Date: 17-Jan-2019 12:31:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_031.d

Injection Date:	17-Jan-2019 04:39:56	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-7-D	Lab Sample ID:	720-90673-7	Worklist Smp#:	31
Client ID:	DUP-47				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_031.d				
Lims ID:	720-90673-E-7-D				
Client ID:	DUP-47				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 04:39:56	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 108 Name: 720-0056114-031				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:31:16	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:31:16

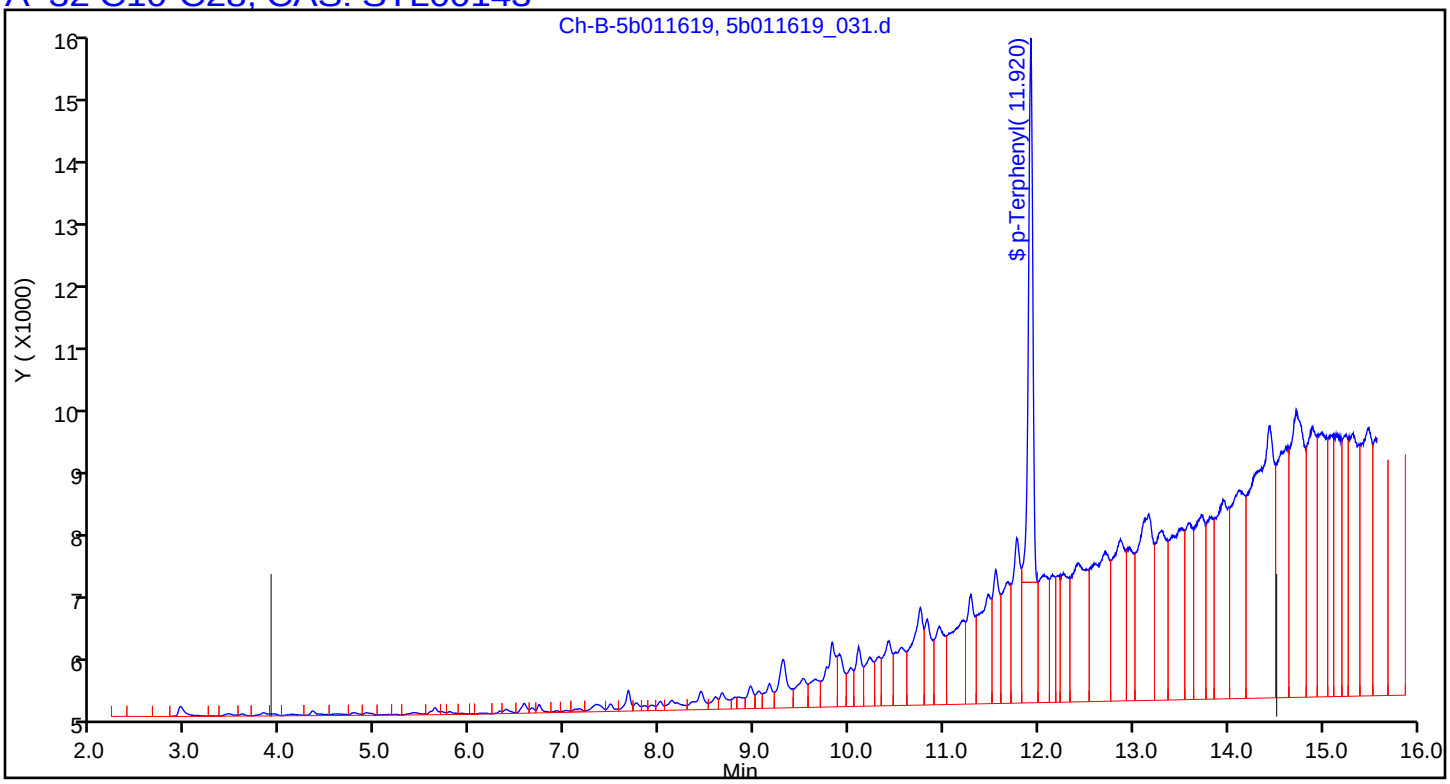
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	11.5	91.75

Report Date: 17-Jan-2019 12:31:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_031.d				
Injection Date:	17-Jan-2019 04:39:56	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-7-D	Lab Sample ID:	720-90673-7		
Client ID:	DUP-47				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

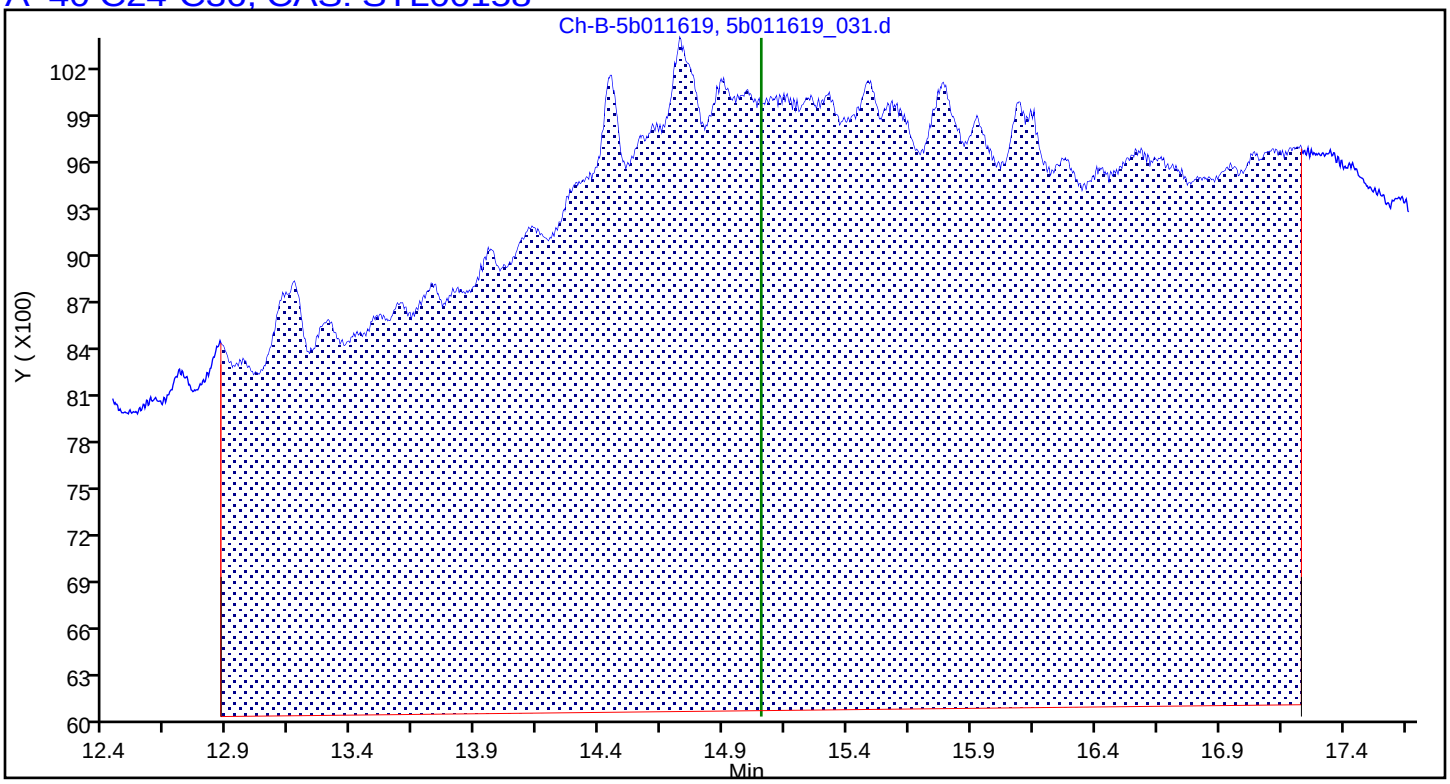


Report Date: 17-Jan-2019 12:31:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_031.d				
Injection Date:	17-Jan-2019 04:39:56	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-7-D	Lab Sample ID:	720-90673-7		
Client ID:	DUP-47				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000032.D
Lims ID: 720-90673-E-8-D
Client ID: DG-AC7S-7.5-8
Sample Type: Client
Inject. Date: 17-Jan-2019 03:59:12 ALS Bottle#: 82 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-032
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:28:38 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:28:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.362	1.353	0.009	23479	NC	M
	23 n-Decane	2.228	2.210	0.018	319932	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		13671955	5.74	M
A	1 C9-C13	2.811	(1.353-4.270)		13671955	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		4675544	2.36	M
	24 Dodecane	3.661	3.658	0.003	316922	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		31283318	10.9	M
A	60 C10-C16	4.030	(2.210-5.850)		20066572	7.84	M
A	47 C9 - C18	4.060	(1.353-6.766)		37652776	16.6	M
	26 C13	4.271	4.270	0.001	288109	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		42736489	14.8	M
A	15 Kerosene	4.272	(1.353-7.191)		42736489	18.8	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		15391028	7.78	M
A	61 C10-C20	4.904	(2.210-7.598)		51769437	26.2	M
A	28 C9-C24	5.209	(1.353-9.066)		95061244	48.1	M
A	29 C9-C25	5.376	(1.353-9.398)		112674999	57.0	M
A	54 C10-C23	5.465	(2.210-8.720)		82974261	42.0	M
A	4 C10-C24	5.638	(2.210-9.066)		88935447	45.0	M
A	16 C10-C25	5.804	(2.210-9.398)		106549202	53.9	M
	45 Hexadecane	5.848	5.850	-0.002	1000341	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		117276446	59.3	M
A	67 C12-C22	6.009	(3.658-8.361)		64465435	32.6	M
A	32 C10-C28	6.269	(2.210-10.328)		139877509	70.7	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		139877509	NC	M
A	5 Diesel	6.269	(2.210-10.328)		139877509	70.7	M
A	30 C13-C22	6.315	(4.270-8.361)		61594821	31.1	M
	44 Heptadecane	6.318	6.321	-0.002	817075	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		84259903	42.6	M
	49 n-Octadecane	6.763	6.766	-0.003	1468579	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		310045661	134.7	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		310045661	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		310045661	NC	M
33 C19	7.219	7.191	0.028	2962109	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		132331351	66.9	M
A 17 C10-C36	7.312	(2.210-12.413)		303919864	153.7	M
A 13 C9-C40	7.373	(1.353-13.393)		450032516	253.9	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		450032516	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		69869216	35.3	M
62 icosane	7.597	7.598	-0.001	1182289	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		443906719	250.7	M
$ 34 p-Terphenyl	8.053	8.057	-0.004	60319201	25.6	
35 n-Docosane	8.362	8.361	0.001	2416874	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		439231175	249.0	M
36 Tricosane	8.718	8.720	-0.002	5654511	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		436360561	247.6	M
37 n-Tetracosane	9.066	9.066	0.000	5568756	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		284853633	210.4	M
38 C25	9.396	9.398	-0.002	5666083	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		424840488	241.5	M
46 n-Hexacosane	9.717	9.719	-0.002	5829929	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		75204623	46.7	
A 55 C23-C32	10.077	(8.720-11.433)		144821414	163.3	M
39 n-Octacosane	10.329	10.328	0.001	7441096	NC	M
65 C29	10.566	10.618	-0.052	16054880	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		114669549	99.1	
A 40 C24-C36	10.740	(9.066-12.413)		220089815	190.3	M
A 10 C22-C40	10.877	(8.361-13.393)		176017372	108.7	
A 50 C25-C36	10.906	(9.398-12.413)		103348373	95.5	
A 41 C23-C40	11.057	(8.720-13.393)		181773957	114.5	
A 8 C24-C40	11.229	(9.066-13.393)		194107278	124.9	
56 Dotriacontane	11.430	11.433	-0.003	6732198	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		189511908	152.3	
A 63 C29-C40	12.006	(10.618-13.393)		179556356	157.2	
42 n-Hexatriacontane	12.427	12.413	0.014	11460255	NC	M
43 C40	13.380	13.393	-0.013	24121259	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

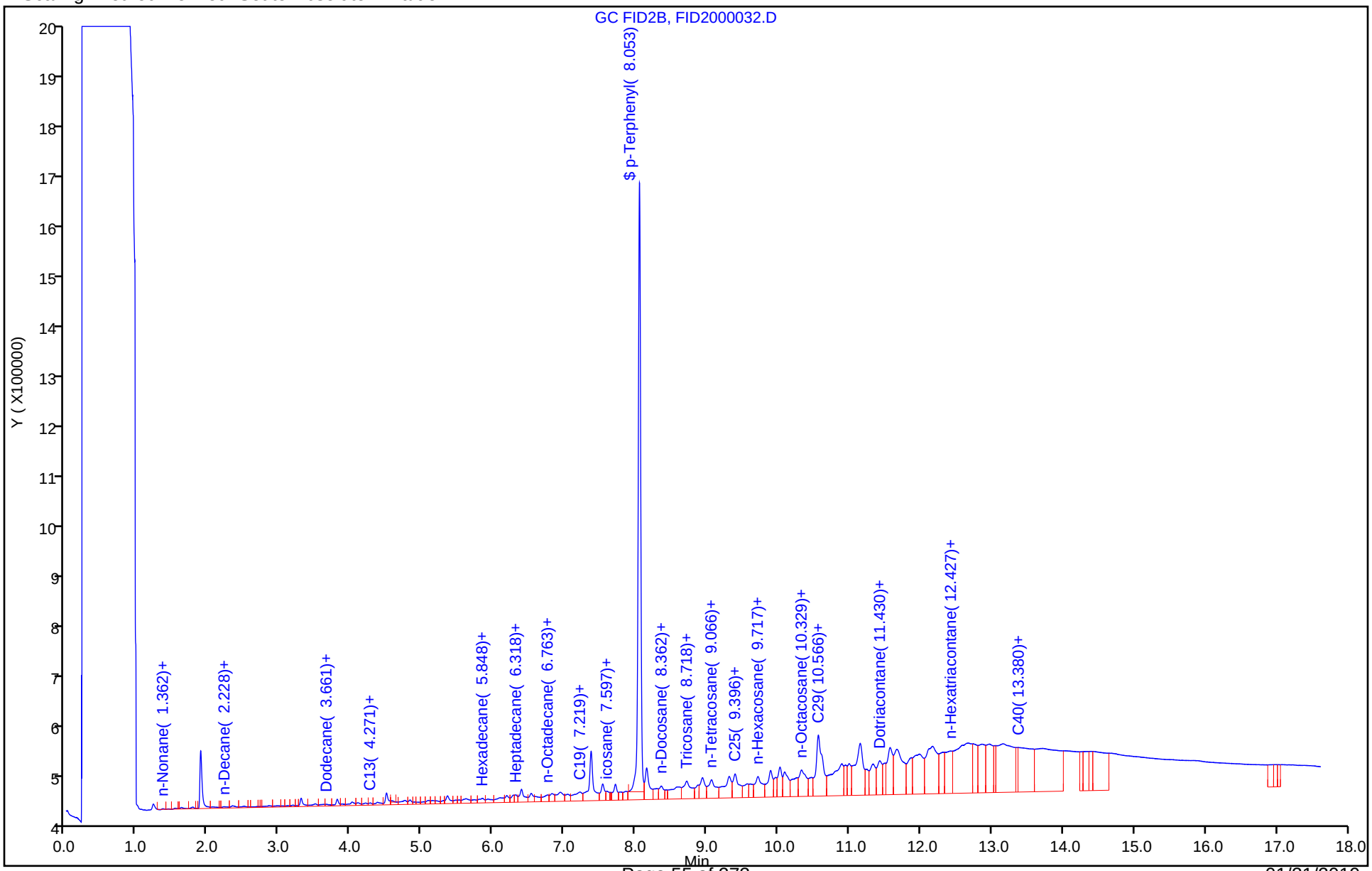
Report Date: 17-Jan-2019 14:28:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000032.D

Injection Date:	17-Jan-2019 03:59:12	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-8-D	Lab Sample ID:	720-90673-8	Worklist Smp#:	32
Client ID:	DG-AC7S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	82
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000032.D
Lims ID: 720-90673-E-8-D
Client ID: DG-AC7S-7.5-8
Sample Type: Client
Inject. Date: 17-Jan-2019 03:59:12 ALS Bottle#: 82 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-032
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:28:38 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:28:38

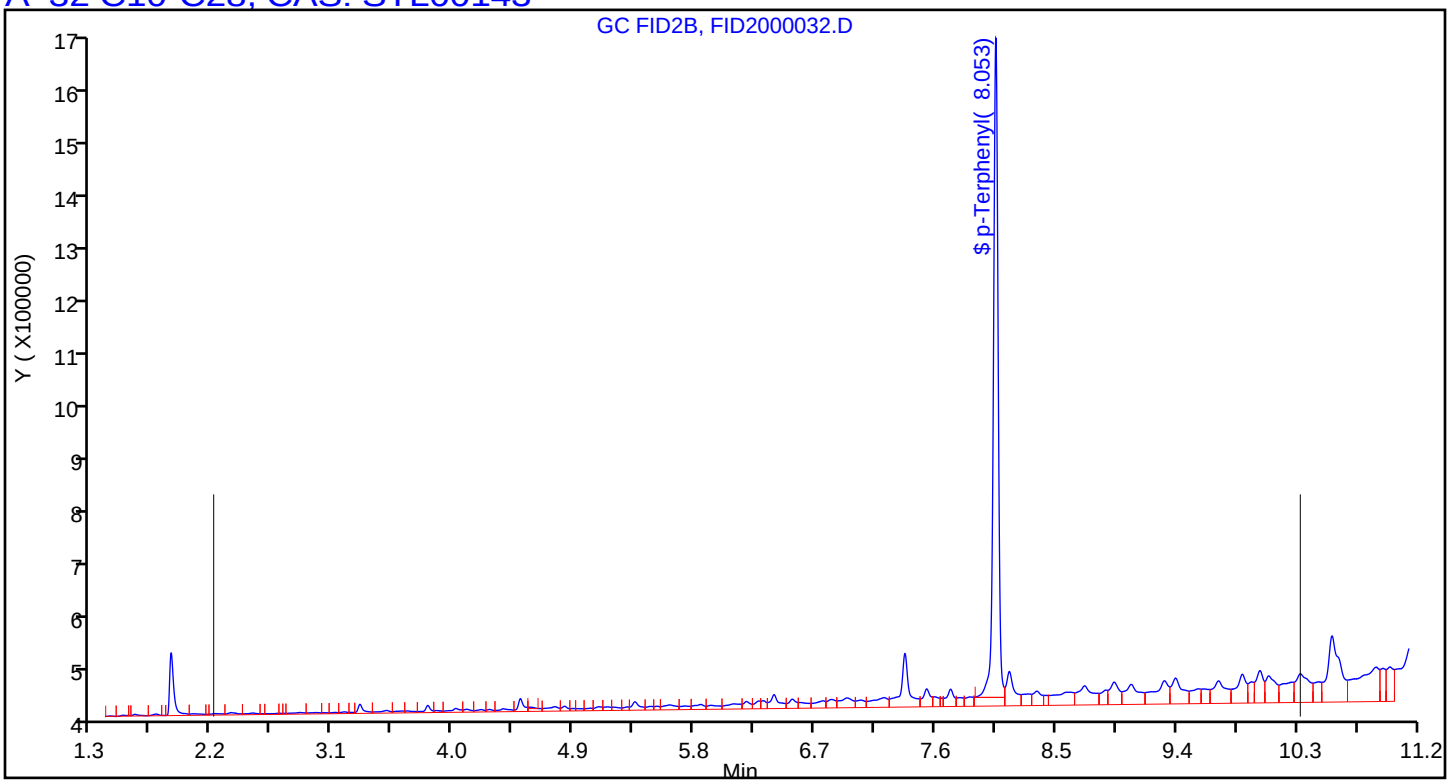
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.6	102.32

Report Date: 17-Jan-2019 14:28:42 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000032.D				
Injection Date:	17-Jan-2019 03:59:12	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-8-D	Lab Sample ID:	720-90673-8		
Client ID:	DG-AC7S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	82	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

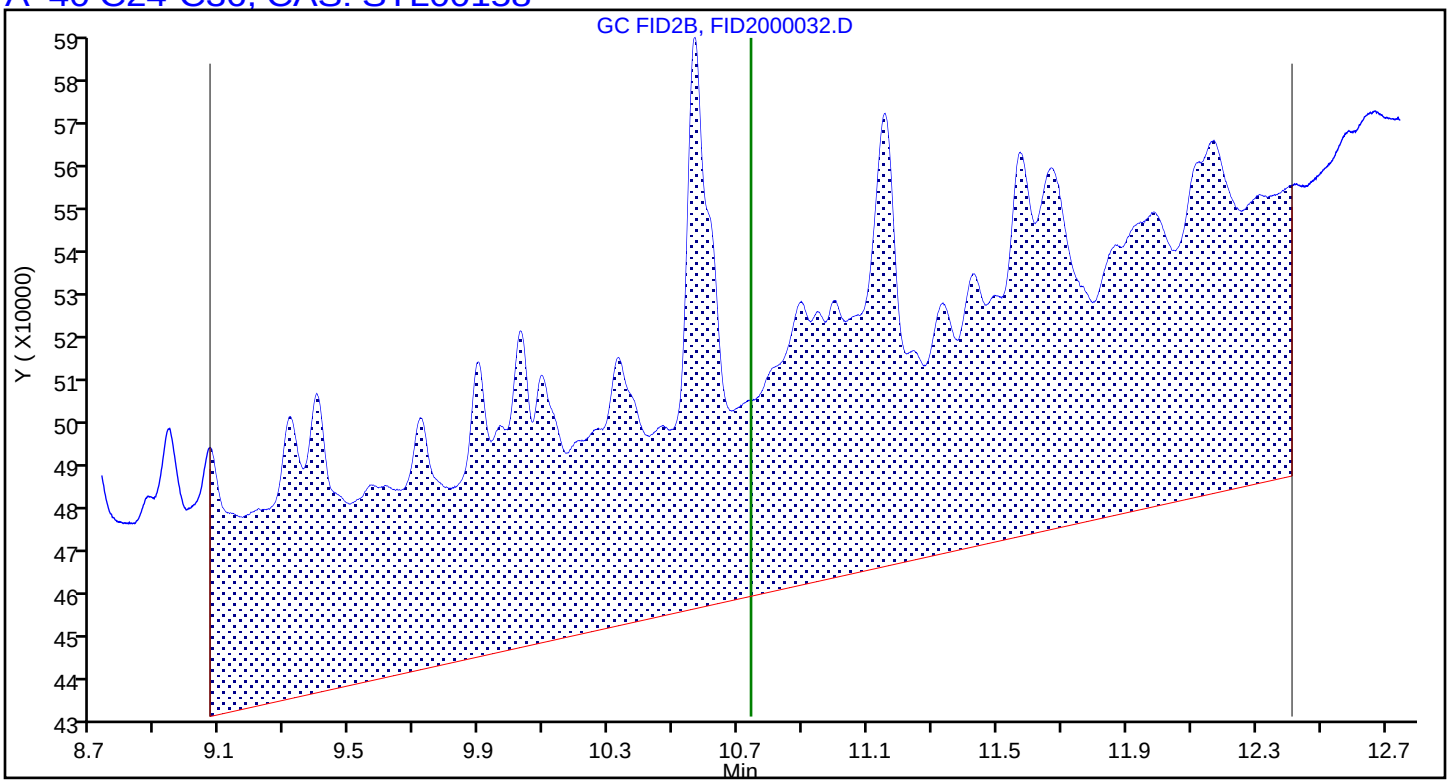


Report Date: 17-Jan-2019 14:28:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000032.D				
Injection Date:	17-Jan-2019 03:59:12	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-8-D	Lab Sample ID:	720-90673-8		
Client ID:	DG-AC7S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	82	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

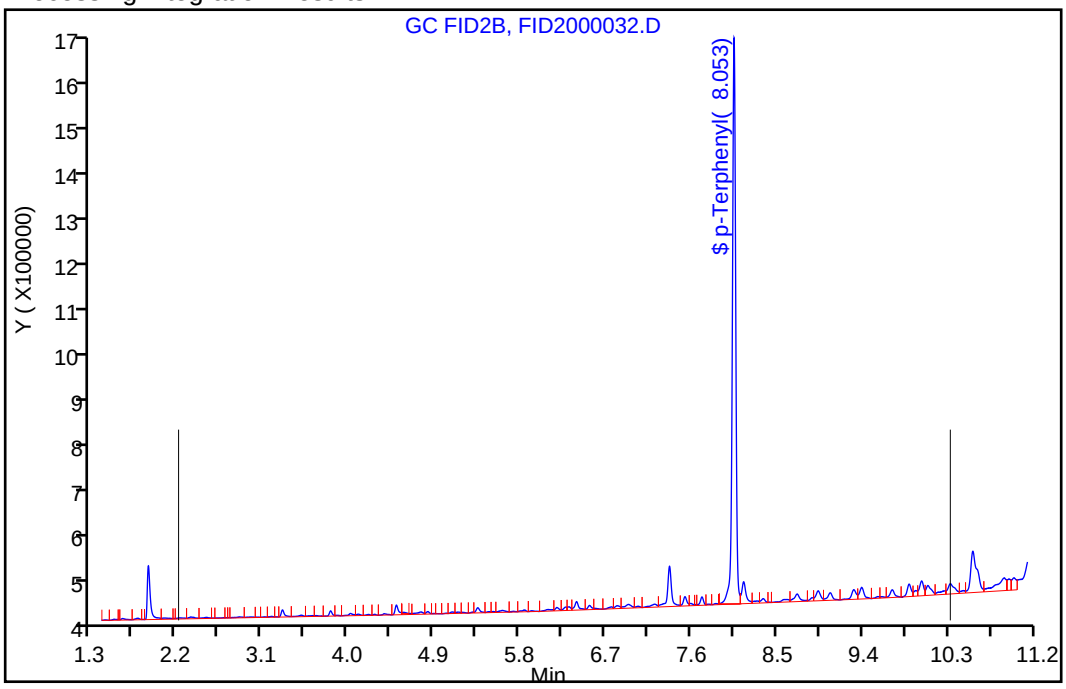
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000032.D				
Injection Date:	17-Jan-2019 03:59:12	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-8-D	Lab Sample ID:	720-90673-8		
Client ID:	DG-AC7S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	82	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

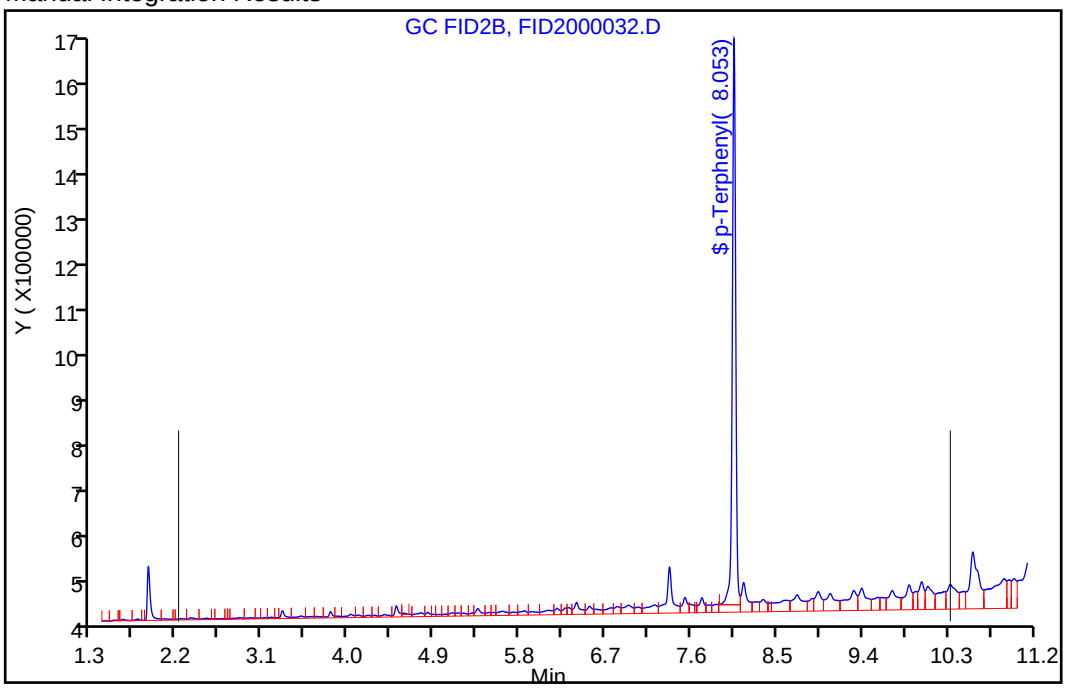
Processing Integration Results

RT: 6.27
Response: 42303565
Amount: 21.392669



Manual Integration Results

RT: 6.27
Response: 139877509
Amount: 70.735250



Reviewer: luj, 17-Jan-2019 14:28:15

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

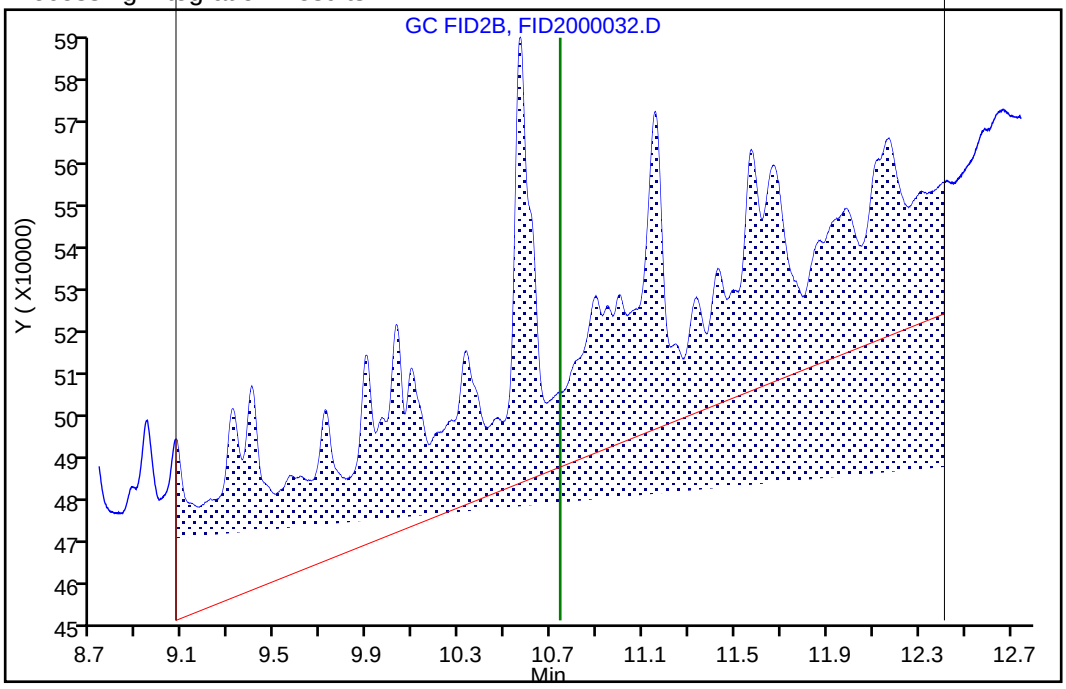
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000032.D				
Injection Date:	17-Jan-2019 03:59:12	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-8-D	Lab Sample ID:	720-90673-8		
Client ID:	DG-AC7S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	82	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

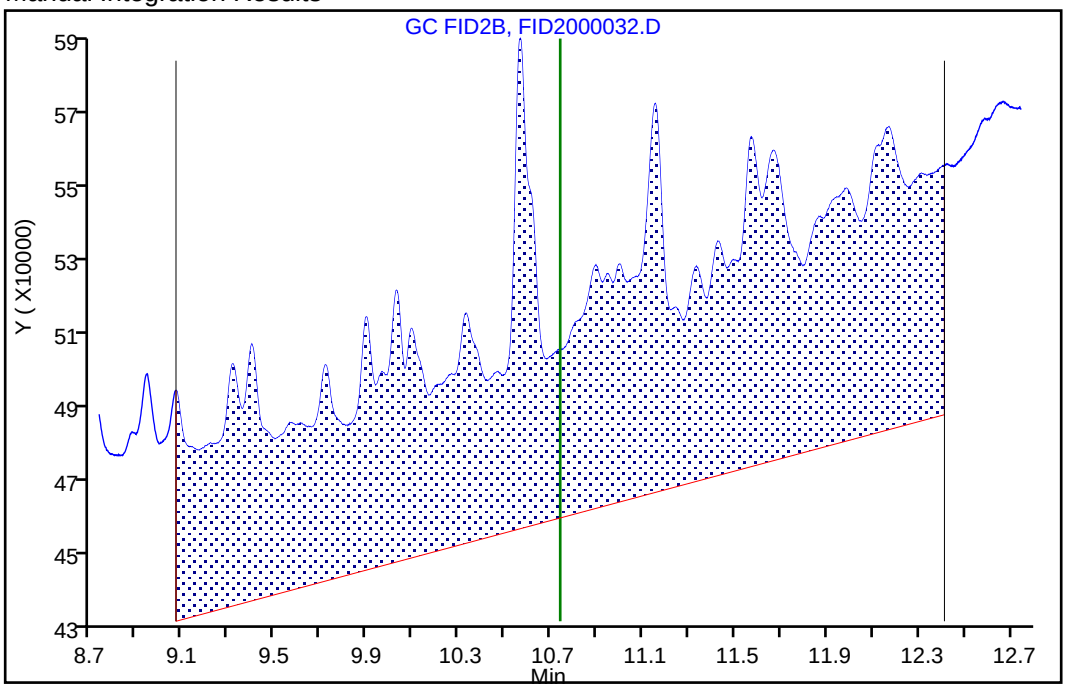
Processing Integration Results

RT: 10.74
Response: 114669549
Amount: 99.126001



Manual Integration Results

RT: 10.74
Response: 220089815
Amount: 190.2565



Reviewer: luj, 17-Jan-2019 14:28:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000033.D
Lims ID: 720-90673-E-9-D
Client ID: DG-AE7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 04:23:20 ALS Bottle#: 83 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-033
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:29:36 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:29:36

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.436	1.353	0.083	259626	NC	M
	23 n-Decane	2.211	2.210	0.001	776579	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		14187614	5.96	M
A	1 C9-C13	2.811	(1.353-4.270)		14187614	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		7971538	4.03	M
	24 Dodecane	3.663	3.658	0.005	391749	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		34315224	12.0	M
A	60 C10-C16	4.030	(2.210-5.850)		25722587	10.0	M
A	47 C9 - C18	4.060	(1.353-6.766)		41118758	18.1	M
	26 C13	4.273	4.270	0.003	717130	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		54901147	19.0	M
A	15 Kerosene	4.272	(1.353-7.191)		54901147	24.2	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		17751049	8.98	M
A	61 C10-C20	4.904	(2.210-7.598)		73327011	37.1	M
A	28 C9-C24	5.209	(1.353-9.066)		177247537	89.6	M
A	29 C9-C25	5.376	(1.353-9.398)		222838967	112.7	M
A	54 C10-C23	5.465	(2.210-8.720)		151078538	76.4	M
A	4 C10-C24	5.638	(2.210-9.066)		174276002	88.1	M
A	16 C10-C25	5.804	(2.210-9.398)		219867432	111.2	M
	45 Hexadecane	5.853	5.850	0.003	1022145	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		249180992	126.0	M
A	67 C12-C22	6.009	(3.658-8.361)		106588816	53.9	M
A	32 C10-C28	6.269	(2.210-10.328)		309228311	156.4	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		309228311	NC	M
A	5 Diesel	6.269	(2.210-10.328)		309228311	156.4	M
A	30 C13-C22	6.315	(4.270-8.361)		103344275	52.3	M
	44 Heptadecane	6.363	6.321	0.043	4166318	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		166304464	84.1	M
	49 n-Octadecane	6.768	6.766	0.002	2004748	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		615546079	267.5	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		615546079	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		615546079	NC	M
33 C19	7.190	7.191	-0.001	4676245	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		298012232	150.7	M
A 17 C10-C36	7.312	(2.210-12.413)		612574544	309.8	M
A 13 C9-C40	7.373	(1.353-13.393)		721910879	407.3	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		721910879	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		148553415	75.1	M
62 icosane	7.583	7.598	-0.015	3533255	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		718939344	406.0	M
$ 34 p-Terphenyl	8.053	8.057	-0.004	63490821	26.9	
35 n-Docosane	8.364	8.361	0.003	5719799	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		710967806	403.0	M
36 Tricosane	8.717	8.720	-0.003	14812272	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		707723265	401.5	M
37 n-Tetracosane	9.066	9.066	0.000	7672491	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		586851957	433.4	M
38 C25	9.396	9.398	-0.002	13941129	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		693216757	394.1	M
46 n-Hexacosane	9.717	9.719	-0.002	17200982	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		390908531	242.8	
A 55 C23-C32	10.077	(8.720-11.433)		349364271	393.8	M
39 n-Octacosane	10.332	10.328	0.004	8047436	NC	M
65 C29	10.613	10.618	-0.005	16538600	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		344451491	297.8	
A 40 C24-C36	10.740	(9.066-12.413)		414432997	358.3	M
A 10 C22-C40	10.877	(8.361-13.393)		465208702	287.4	
A 50 C25-C36	10.906	(9.398-12.413)		309483461	285.9	
A 41 C23-C40	11.057	(8.720-13.393)		449756544	283.2	
A 8 C24-C40	11.229	(9.066-13.393)		436733674	281.0	
56 Dotriacontane	11.422	11.433	-0.011	21981186	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		339580644	273.0	
A 63 C29-C40	12.006	(10.618-13.393)		308756383	270.4	
42 n-Hexatriacontane	12.413	12.413	0.000	11350951	NC	M
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

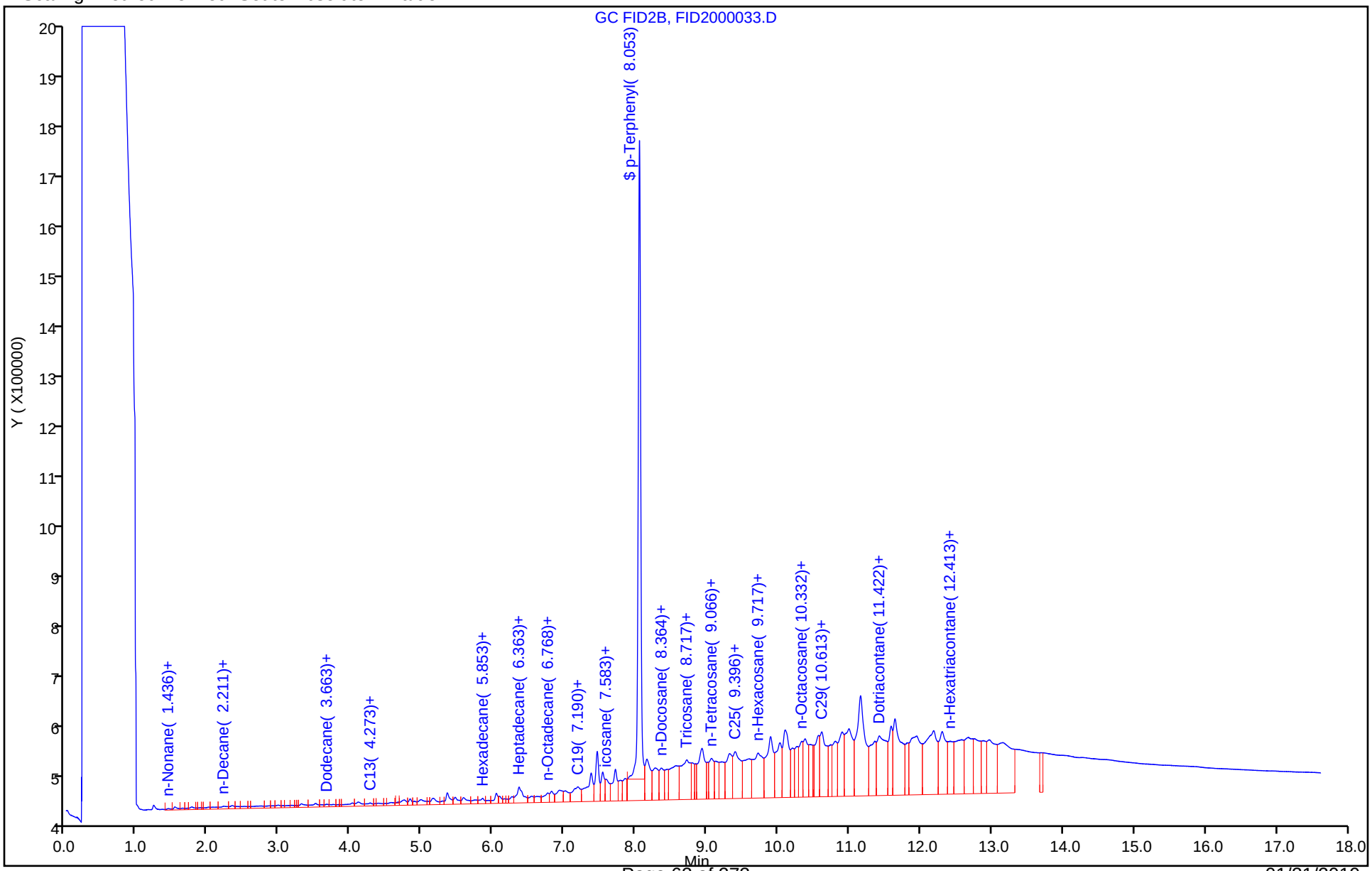
Report Date: 17-Jan-2019 14:29:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000033.D

Injection Date:	17-Jan-2019 04:23:20	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-9-D	Lab Sample ID:	720-90673-9	Worklist Smp#:	33
Client ID:	DG-AE7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	83
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000033.D
Lims ID: 720-90673-E-9-D
Client ID: DG-AE7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 04:23:20 ALS Bottle#: 83 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-033
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:29:36 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:29:36

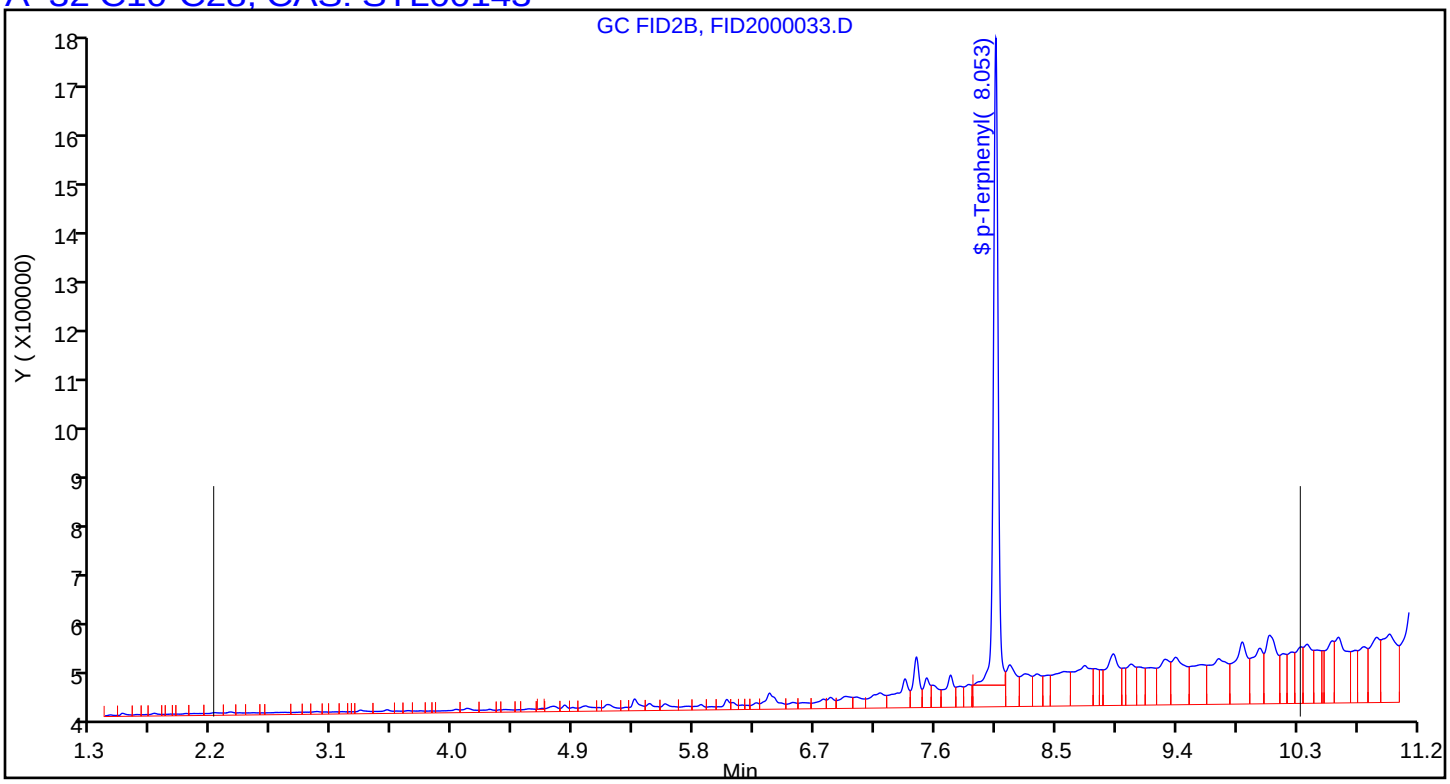
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.9	107.70

Report Date: 17-Jan-2019 14:29:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000033.D				
Injection Date:	17-Jan-2019 04:23:20	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-9-D	Lab Sample ID:	720-90673-9		
Client ID:	DG-AE7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	83	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

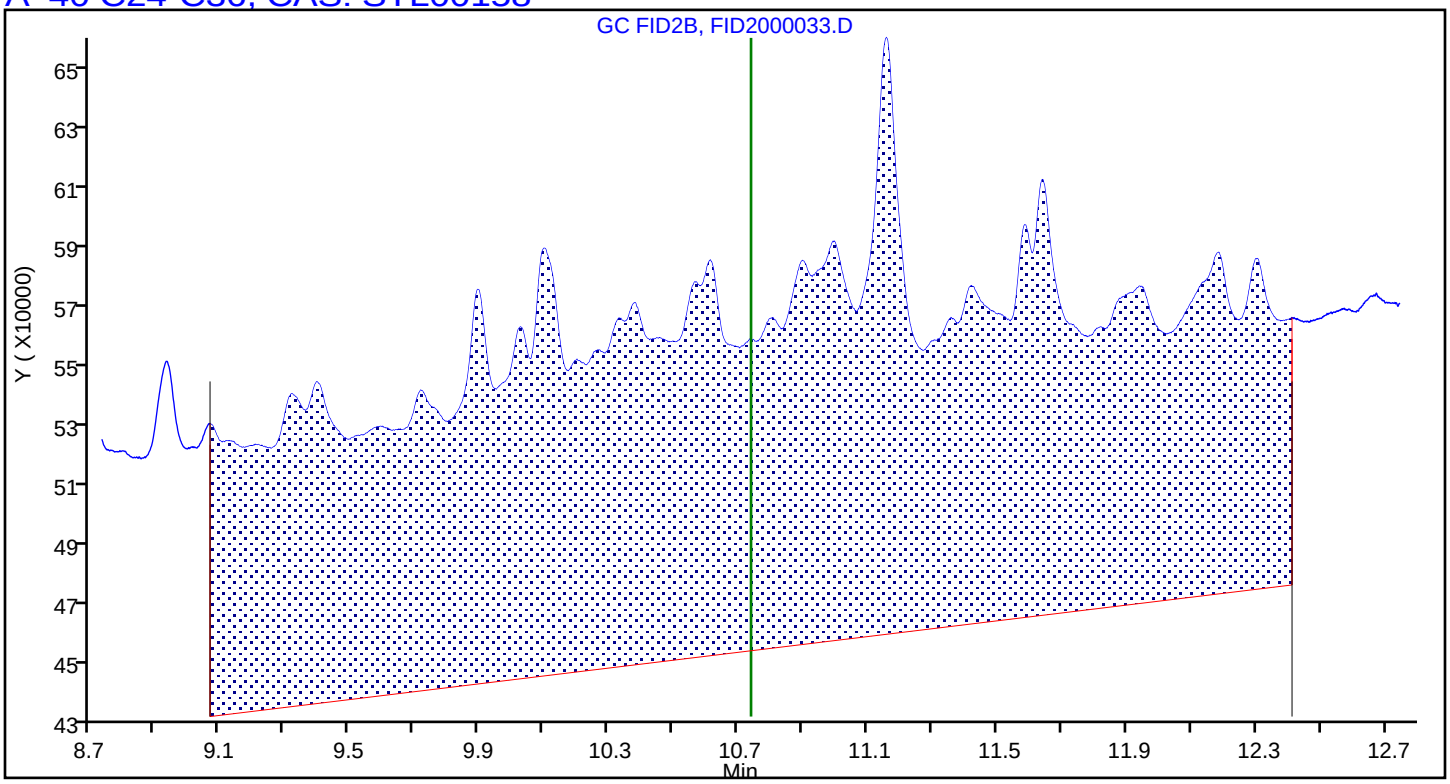


Report Date: 17-Jan-2019 14:29:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000033.D				
Injection Date:	17-Jan-2019 04:23:20	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-9-D	Lab Sample ID:	720-90673-9		
Client ID:	DG-AE7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	83	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

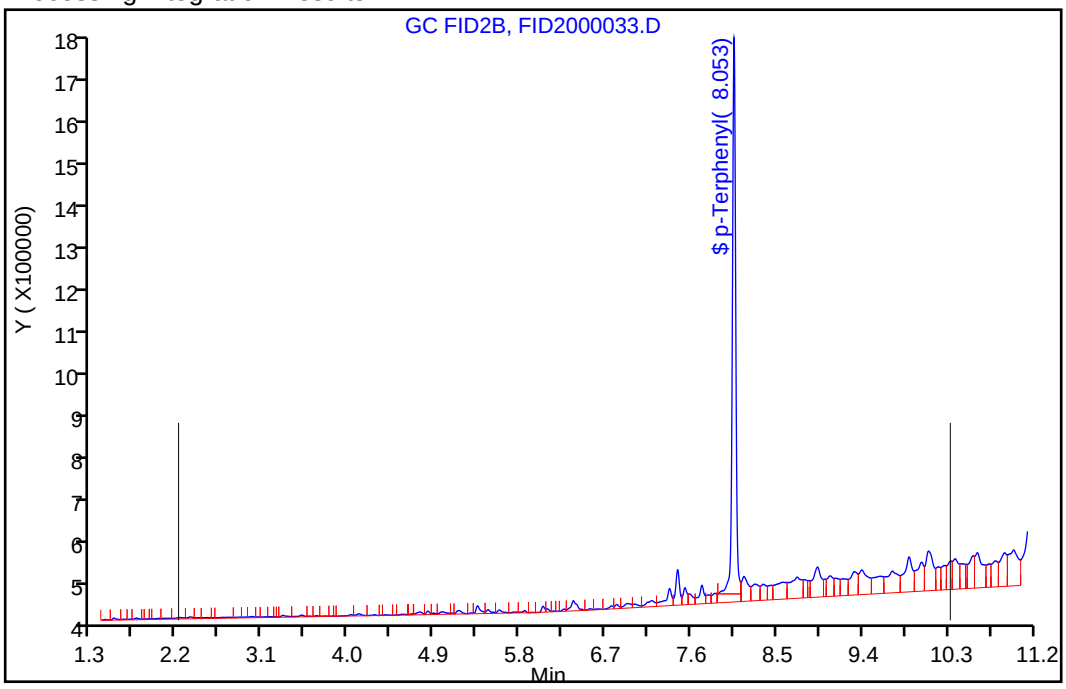
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Lims ID:	720-90673-E-9-D	Lab Sample ID:	720-90673-9		
Client ID:	DG-AE7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	83	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

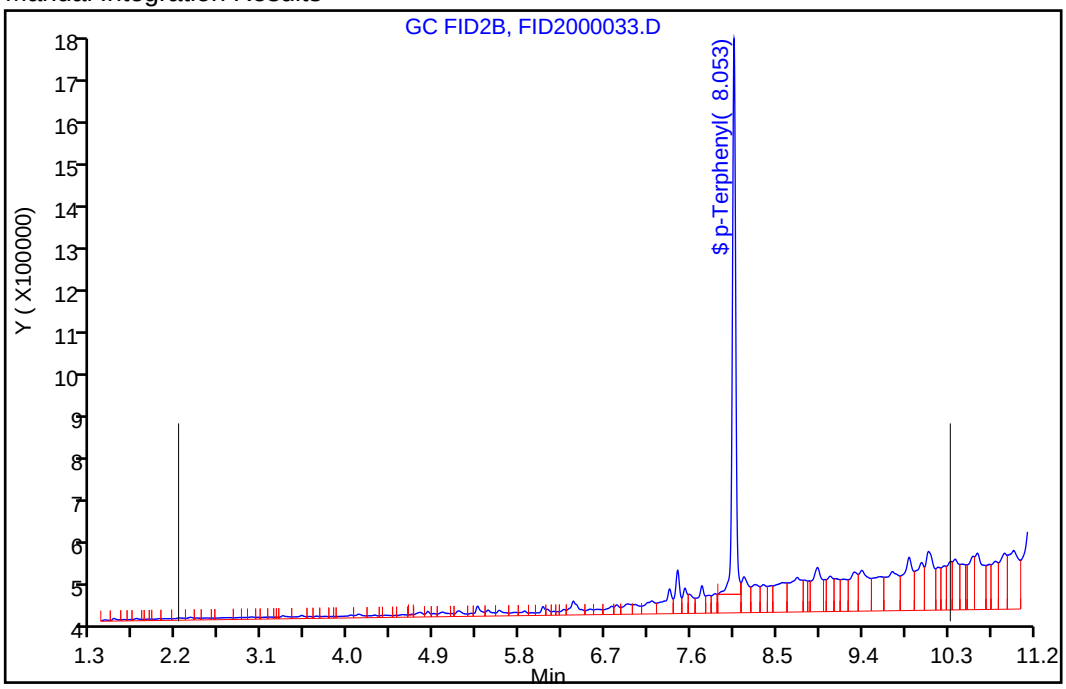
Processing Integration Results

RT: 6.27
Response: 160351068
Amount: 81.088611



Manual Integration Results

RT: 6.27
Response: 309228311
Amount: 156.3750



Reviewer: luj, 17-Jan-2019 14:29:26

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

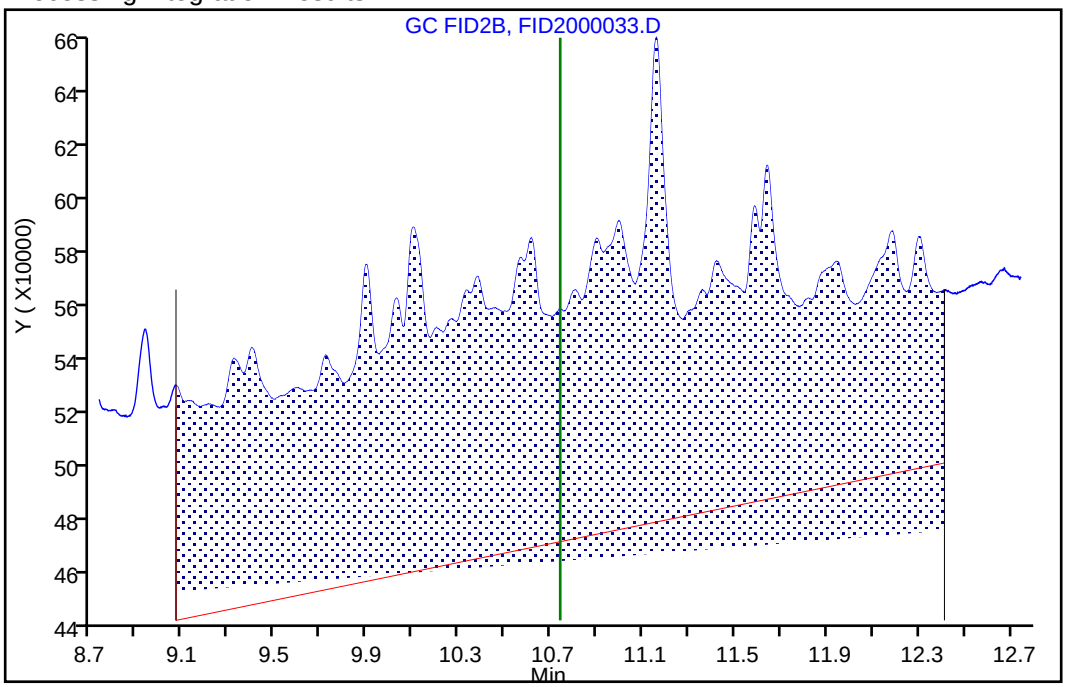
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Injection Date:	17-Jan-2019 04:23:20	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-9-D	Lab Sample ID:	720-90673-9		
Client ID:	DG-AE7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	83	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

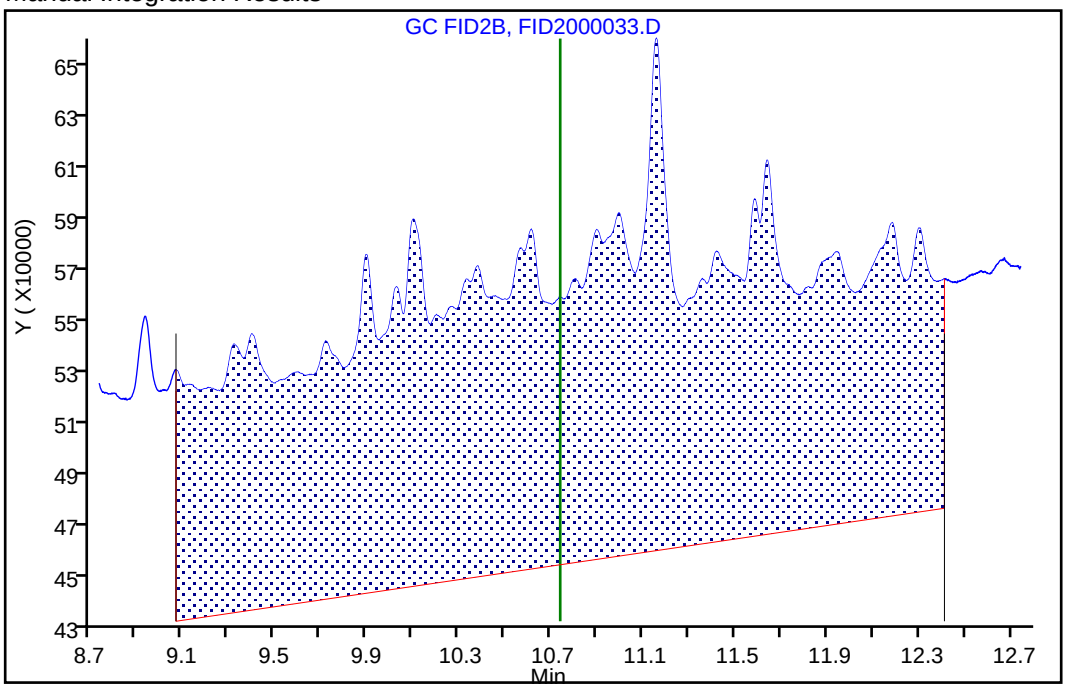
Processing Integration Results

RT: 10.74
Response: 344451491
Amount: 297.7608



Manual Integration Results

RT: 10.74
Response: 414432997
Amount: 358.2563



Reviewer: luj, 17-Jan-2019 14:29:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000035.D
Lims ID: 720-90673-E-10-E
Client ID: DG-AE7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 05:12:01 ALS Bottle#: 85 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-035
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:31:48 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:31:48

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.354	1.353	0.001	81721	NC	M
	23 n-Decane	2.212	2.210	0.002	482878	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		18808770	7.90	M
A	1 C9-C13	2.811	(1.353-4.270)		18808770	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		7810637	3.95	M
	24 Dodecane	3.649	3.658	-0.009	343188	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		53041118	18.5	M
A	60 C10-C16	4.030	(2.210-5.850)		37710955	14.7	M
A	47 C9 - C18	4.060	(1.353-6.766)		66736133	29.4	M
	26 C13	4.269	4.270	-0.001	648390	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		77892047	27.0	M
A	15 Kerosene	4.272	(1.353-7.191)		77892047	34.3	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		30243506	15.3	M
A	61 C10-C20	4.904	(2.210-7.598)		102168238	51.7	M
A	28 C9-C24	5.209	(1.353-9.066)		220222985	111.4	M
A	29 C9-C25	5.376	(1.353-9.398)		262142942	132.6	M
A	54 C10-C23	5.465	(2.210-8.720)		183201883	92.6	M
A	4 C10-C24	5.638	(2.210-9.066)		214686996	108.6	M
A	16 C10-C25	5.804	(2.210-9.398)		256606953	129.8	M
	45 Hexadecane	5.846	5.850	-0.004	1232060	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		298191678	150.8	M
A	67 C12-C22	6.009	(3.658-8.361)		148918584	75.3	M
A	32 C10-C28	6.269	(2.210-10.328)		404473677	204.5	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		404473677	NC	M
A	5 Diesel	6.269	(2.210-10.328)		404473677	204.5	M
A	30 C13-C22	6.315	(4.270-8.361)		143761642	72.7	M
	44 Heptadecane	6.362	6.321	0.042	3916238	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		207219547	104.8	M
	49 n-Octadecane	6.748	6.766	-0.018	3964606	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		1451547641	630.7	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		1451547641	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		1451547641	NC	M
33 C19	7.193	7.191	0.002	5162663	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		391849286	198.2	M
A 17 C10-C36	7.312	(2.210-12.413)		1446011652	731.2	M
A 13 C9-C40	7.373	(1.353-13.393)		1846702460	1041.8	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		1846702460	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		178208101	90.1	M
62 icosane	7.596	7.598	-0.002	3999881	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		1841166471	1039.9	M
$ 34 p-Terphenyl	8.052	8.057	-0.005	44785518	19.0	
35 n-Docosane	8.368	8.361	0.007	6008579	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		1833699022	1039.4	M
36 Tricosane	8.727	8.720	0.007	11411351	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		1828542080	1037.4	M
37 n-Tetracosane	9.078	9.066	0.012	16286117	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		1409532757	1041.0	M
38 C25	9.402	9.398	0.004	14626005	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		1804687576	1026.0	M
46 n-Hexacosane	9.753	9.719	0.034	19483820	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		1117179915	693.9	
A 55 C23-C32	10.077	(8.720-11.433)		738450250	832.5	M
39 n-Octacosane	10.370	10.328	0.042	67446847	NC	M
65 C29	10.563	10.618	-0.055	103051820	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		1085485893	938.3	
A 40 C24-C36	10.740	(9.066-12.413)		1221021069	1055.5	M
A 10 C22-C40	10.877	(8.361-13.393)		1353081480	835.8	
A 50 C25-C36	10.906	(9.398-12.413)		1042273432	962.8	
A 41 C23-C40	11.057	(8.720-13.393)		1341712531	844.9	
A 8 C24-C40	11.229	(9.066-13.393)		1325025315	852.5	
56 Dotriacontane	11.419	11.433	-0.014	29690637	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		1174489740	944.2	
A 63 C29-C40	12.006	(10.618-13.393)		1052424457	921.6	
42 n-Hexatriacontane	12.377	12.413	-0.036	40067637	NC	M
43 C40	13.382	13.393	-0.011	129588110	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

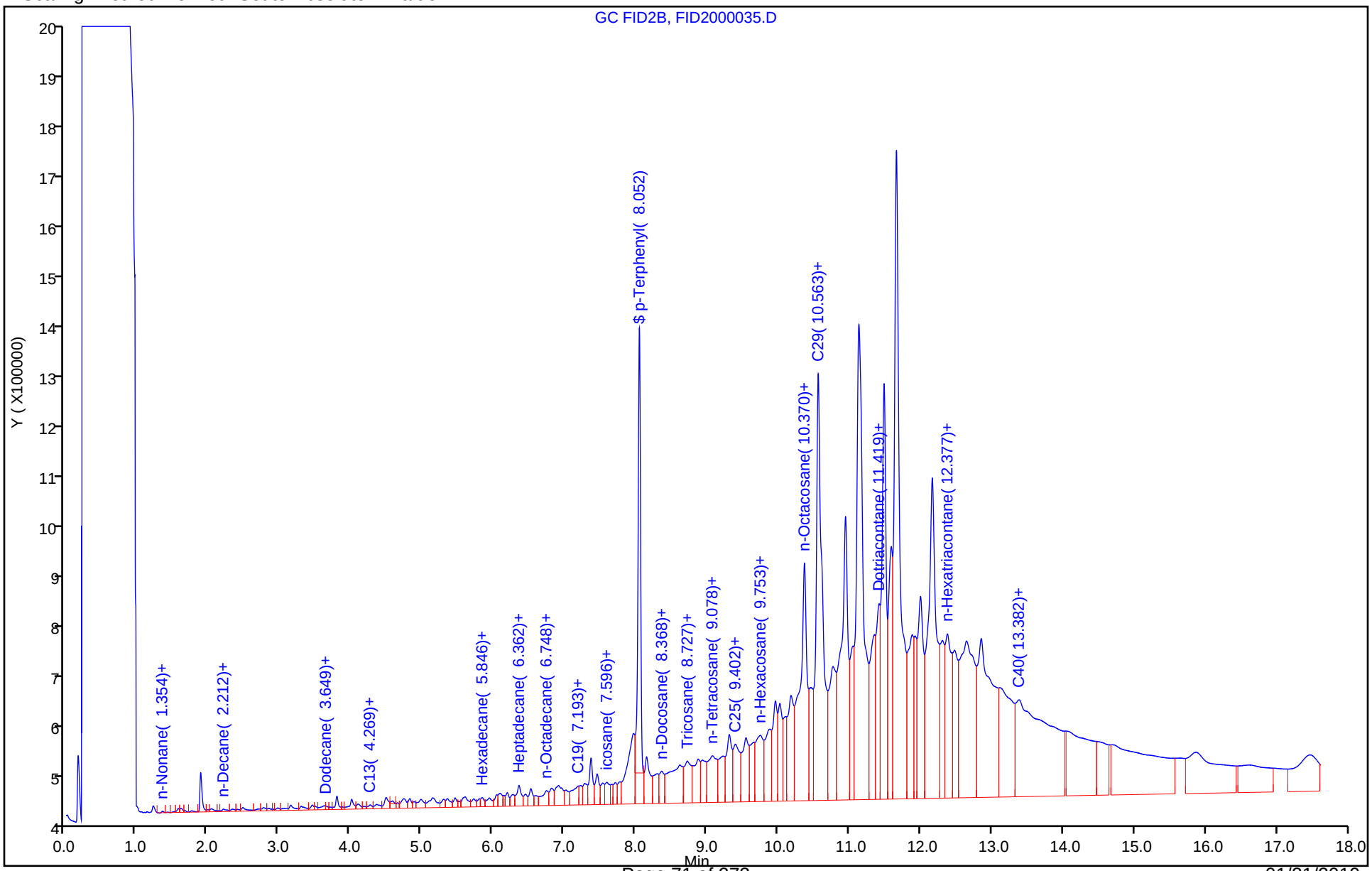
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000035.D

Injection Date:	17-Jan-2019 05:12:01	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-10-E	Lab Sample ID:	720-90673-10	Worklist Smp#:	35
Client ID:	DG-AE7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	85
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000035.D
Lims ID: 720-90673-E-10-E
Client ID: DG-AE7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 05:12:01 ALS Bottle#: 85 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-035
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:31:48 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:31:48

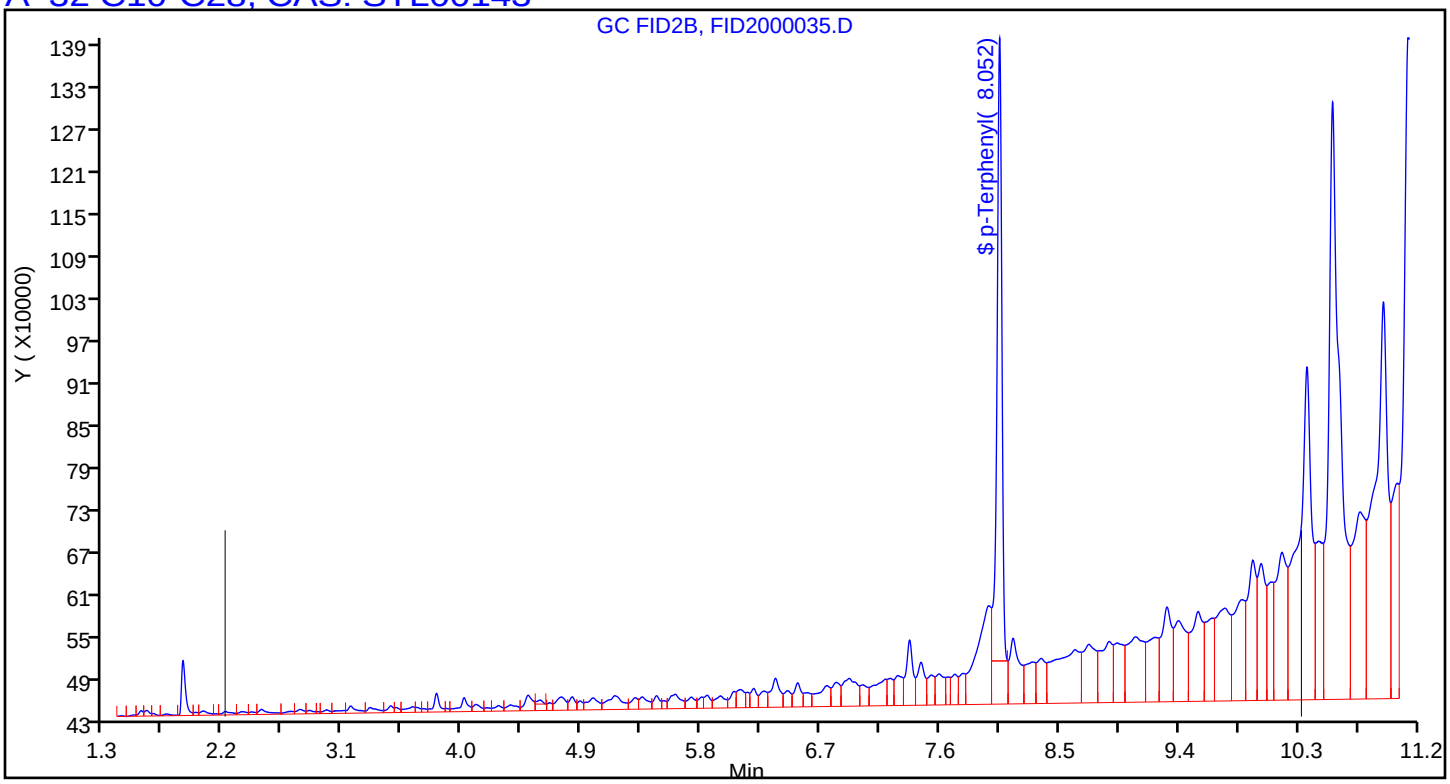
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	19.0	75.97

Report Date: 17-Jan-2019 14:31:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000035.D				
Injection Date:	17-Jan-2019 05:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-10-E	Lab Sample ID:	720-90673-10		
Client ID:	DG-AE7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	85	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

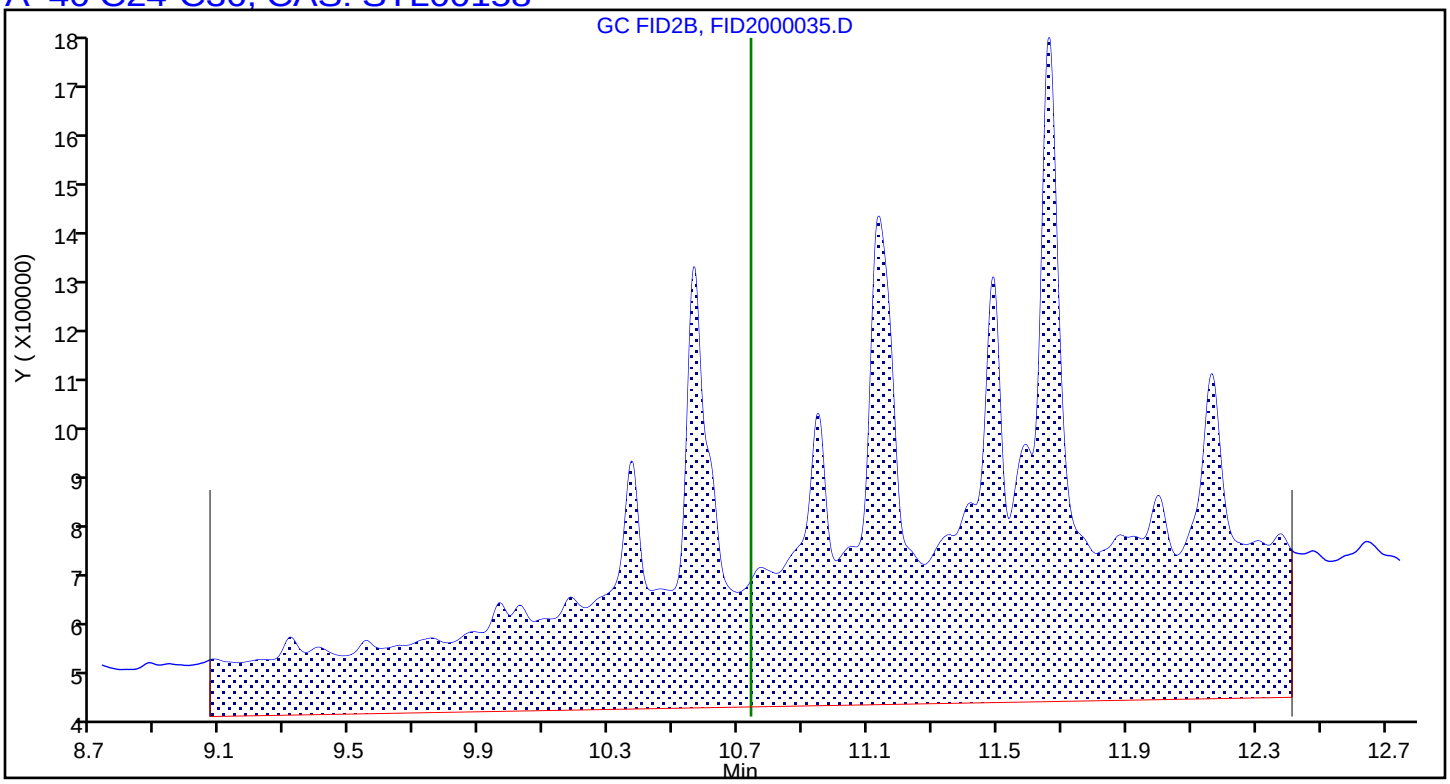


Report Date: 17-Jan-2019 14:31:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000035.D				
Injection Date:	17-Jan-2019 05:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-10-E	Lab Sample ID:	720-90673-10		
Client ID:	DG-AE7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	85	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

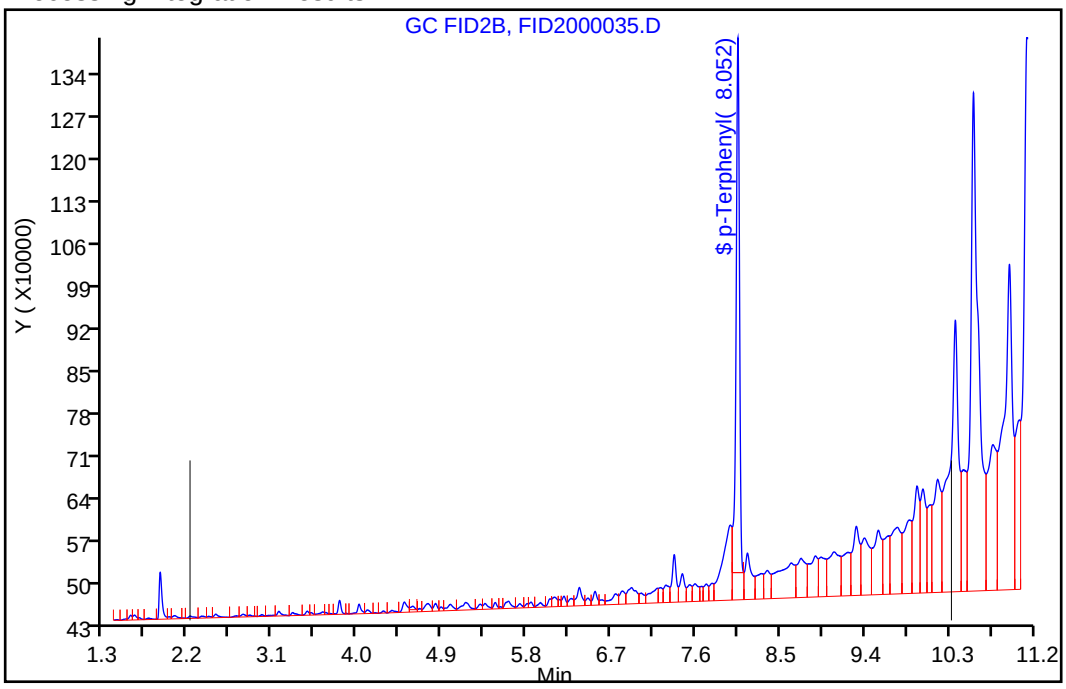
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000035.D				
Injection Date:	17-Jan-2019 05:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-10-E	Lab Sample ID:	720-90673-10		
Client ID:	DG-AE7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	85	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

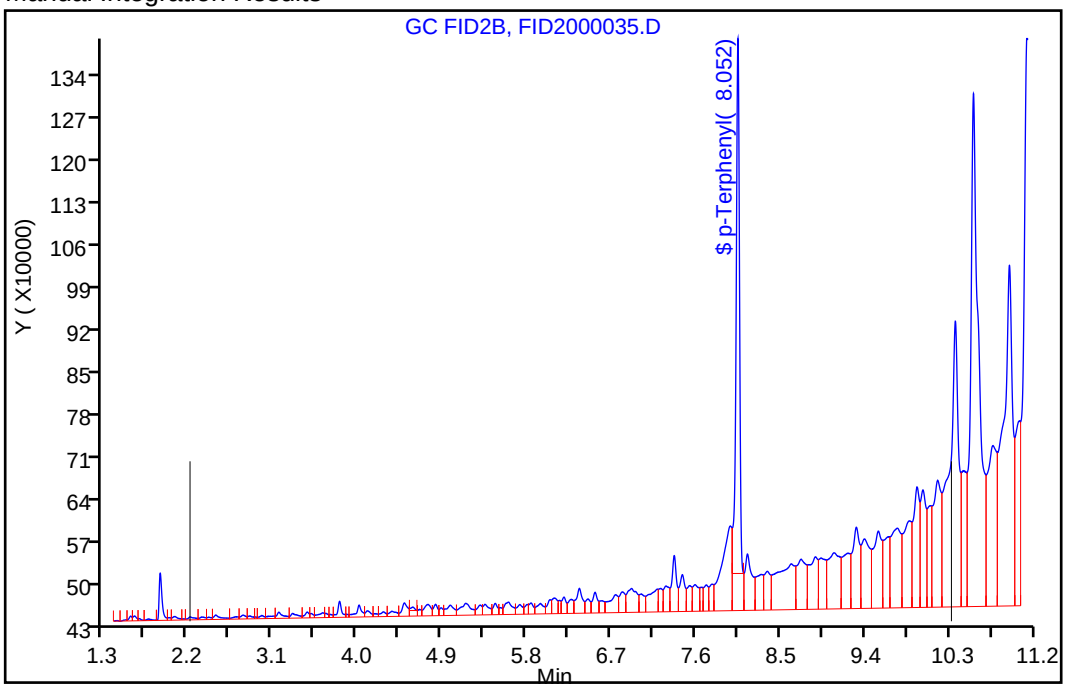
Processing Integration Results

RT: 6.27
Response: 296371632
Amount: 149.8734



Manual Integration Results

RT: 6.27
Response: 404473677
Amount: 204.5400



Reviewer: luj, 17-Jan-2019 14:31:28
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

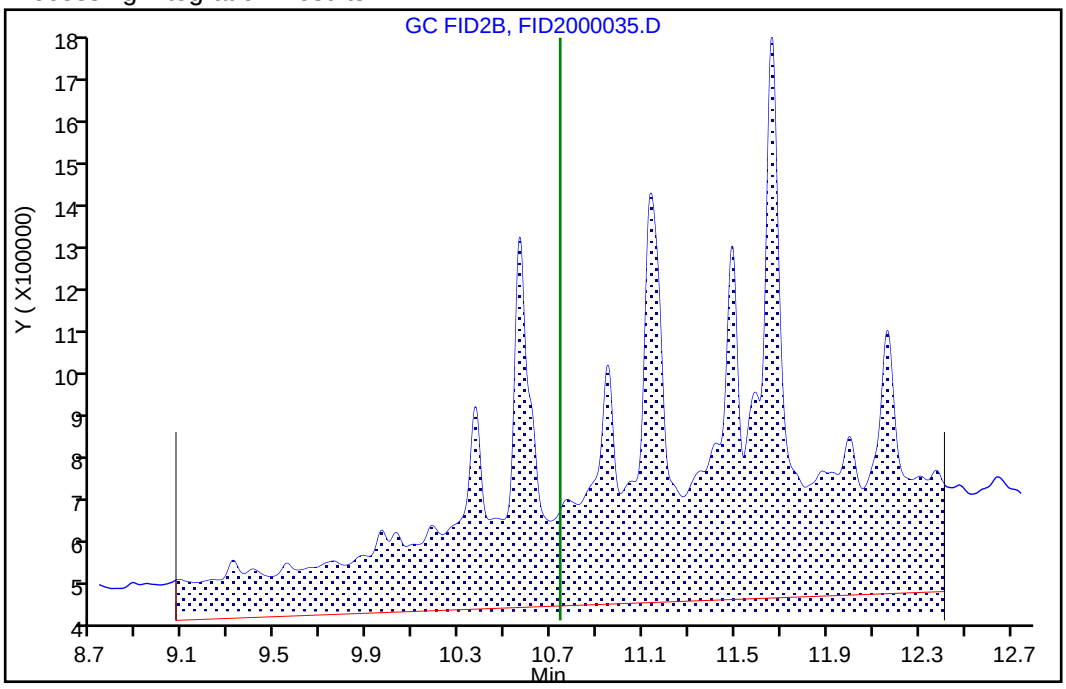
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000035.D				
Injection Date:	17-Jan-2019 05:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-10-E	Lab Sample ID:	720-90673-10		
Client ID:	DG-AE7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	85	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

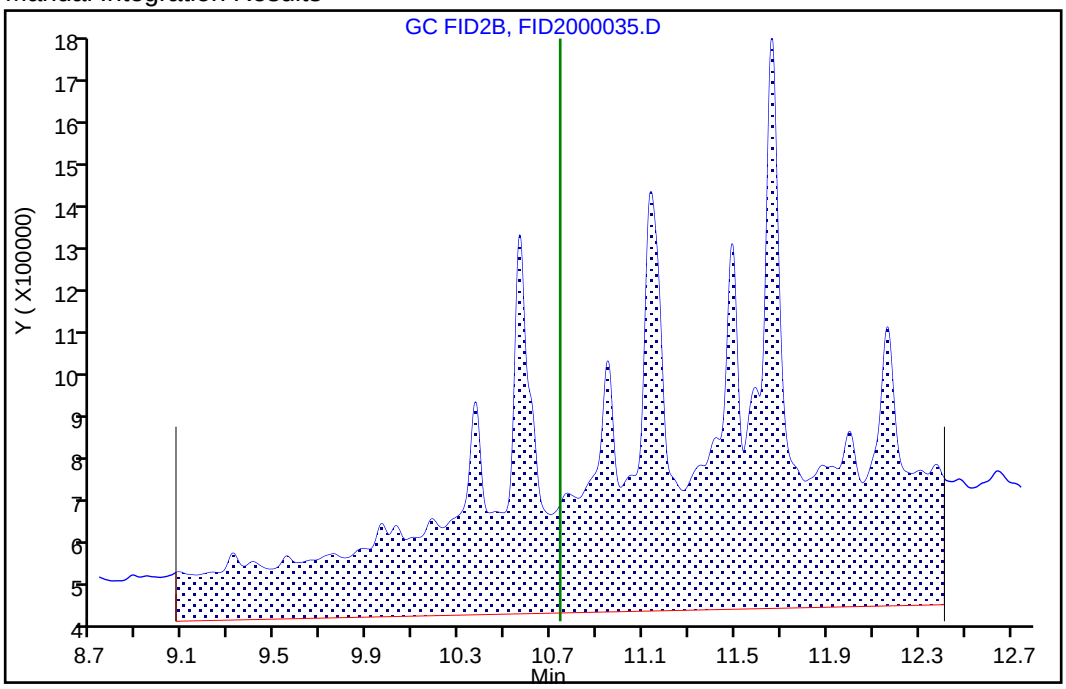
Processing Integration Results

RT: 10.74
Response: 1085485893
Amount: 938.3474



Manual Integration Results

RT: 10.74
Response: 1221021069
Amount: 1055.5107



Reviewer: luj, 17-Jan-2019 14:31:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000034.D
Lims ID: 720-90673-E-11-C
Client ID: DG-AE7S-8-8.5
Sample Type: Client
Inject. Date: 17-Jan-2019 04:47:33 ALS Bottle#: 84 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-034
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:30:01 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:30:01

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.365	1.353	0.012	4434	NC	
	23 n-Decane	2.217	2.210	0.007	272528	NC	
A	21 Stoddard Solvent	2.811	(1.353-4.270)		13552284	5.69	
A	1 C9-C13	2.811	(1.353-4.270)		13552284	NC	
A	57 C10-C12	2.934	(2.210-3.658)		5433111	2.75	
	24 Dodecane	3.646	3.658	-0.012	1121246	NC	
A	3 C9 - C17	3.837	(1.353-6.321)		25995044	9.05	
A	60 C10-C16	4.030	(2.210-5.850)		16527843	6.46	
A	47 C9 - C18	4.060	(1.353-6.766)		30386163	13.4	
	26 C13	4.268	4.270	-0.002	479120	NC	
A	25 C9-C19	4.272	(1.353-7.191)		33303455	11.5	
A	15 Kerosene	4.272	(1.353-7.191)		33303455	14.7	
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		12215978	6.18	
A	61 C10-C20	4.904	(2.210-7.598)		36577693	18.5	
A	28 C9-C24	5.209	(1.353-9.066)		67879250	34.3	
A	29 C9-C25	5.376	(1.353-9.398)		74550120	37.7	
A	54 C10-C23	5.465	(2.210-8.720)		54285838	27.5	
A	4 C10-C24	5.638	(2.210-9.066)		62119404	31.4	
A	16 C10-C25	5.804	(2.210-9.398)		68790274	34.8	
	45 Hexadecane	5.850	5.850	0.000	398583	NC	
A	14 C10-C26	5.965	(2.210-9.719)		75166236	38.0	
A	67 C12-C22	6.009	(3.658-8.361)		43999022	22.3	
A	32 C10-C28	6.269	(2.210-10.328)		95056863	48.1	
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		95056863	NC	
A	5 Diesel	6.269	(2.210-10.328)		95056863	48.1	
A	30 C13-C22	6.315	(4.270-8.361)		40997569	20.7	
	44 Heptadecane	6.279	6.321	-0.041	1328502	NC	
A	31 C12-C24	6.362	(3.658-9.066)		57807539	29.2	
	49 n-Octadecane	6.759	6.766	-0.007	918288	NC	
A	52 Mineral oil	6.883	(1.353-12.413)		170905152	74.3	
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		170905152	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		170905152	NC	
33 C19	7.220	7.191	0.029	1811316	NC	
A 64 C13-C28	7.299	(4.270-10.328)		87743545	44.4	
A 17 C10-C36	7.312	(2.210-12.413)		165145306	83.5	
A 13 C9-C40	7.373	(1.353-13.393)		235614105	132.9	
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		235614105	NC	
A 58 C16-C24	7.458	(5.850-9.066)		45591561	23.1	
62 icosane	7.537	7.598	-0.061	2996702	NC	
A 6 C10-C40	7.802	(2.210-13.393)		229854259	129.8	
$ 34 p-Terphenyl	8.053	8.057	-0.004	61400670	26.0	
35 n-Docosane	8.360	8.361	-0.001	1293653	NC	
A 18 C12-C40	8.526	(3.658-13.393)		225542394	127.8	
36 Tricosane	8.715	8.720	-0.005	2871317	NC	
A 66 C13-C40	8.831	(4.270-13.393)		222540941	126.3	
37 n-Tetracosane	9.065	9.066	-0.001	2753783	NC	
A 2 C16-C36 ORO	9.132	(5.850-12.413)		148617463	109.8	
38 C25	9.396	9.398	-0.002	3273209	NC	
A 19 C16-C40	9.622	(5.850-13.393)		213326416	121.3	
46 n-Hexacosane	9.717	9.719	-0.002	3210427	NC	
A 20 C19-C36	9.802	(7.191-12.413)		66100901	41.1	
A 55 C23-C32	10.077	(8.720-11.433)		80613734	90.9	
39 n-Octacosane	10.326	10.328	-0.002	5661375	NC	
65 C29	10.611	10.618	-0.007	8090159	NC	
A 7 Motor Oil	10.740	(9.066-12.413)		85013192	73.5	
A 40 C24-C36	10.740	(9.066-12.413)		85013192	73.5	
A 10 C22-C40	10.877	(8.361-13.393)		118910527	73.4	
A 50 C25-C36	10.906	(9.398-12.413)		72931283	67.4	
A 41 C23-C40	11.057	(8.720-13.393)		120887342	76.1	
A 8 C24-C40	11.229	(9.066-13.393)		128733672	82.8	
56 Dotriacontane	11.433	11.433	0.000	3474502	NC	
A 51 C28-C40	11.861	(10.328-13.393)		114048514	91.7	
A 63 C29-C40	12.006	(10.618-13.393)		107553672	94.2	
42 n-Hexatriacontane	12.415	12.413	0.002	8090632	NC	
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

Report Date: 17-Jan-2019 14:30:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000034.D

Injection Date:	17-Jan-2019 04:47:33	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-11-C	Lab Sample ID:	720-90673-11	Worklist Smp#:	34
Client ID:	DG-AE7S-8-8.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	84
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000034.D
Lims ID: 720-90673-E-11-C
Client ID: DG-AE7S-8-8.5
Sample Type: Client
Inject. Date: 17-Jan-2019 04:47:33 ALS Bottle#: 84 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-034
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:30:01 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:30:01

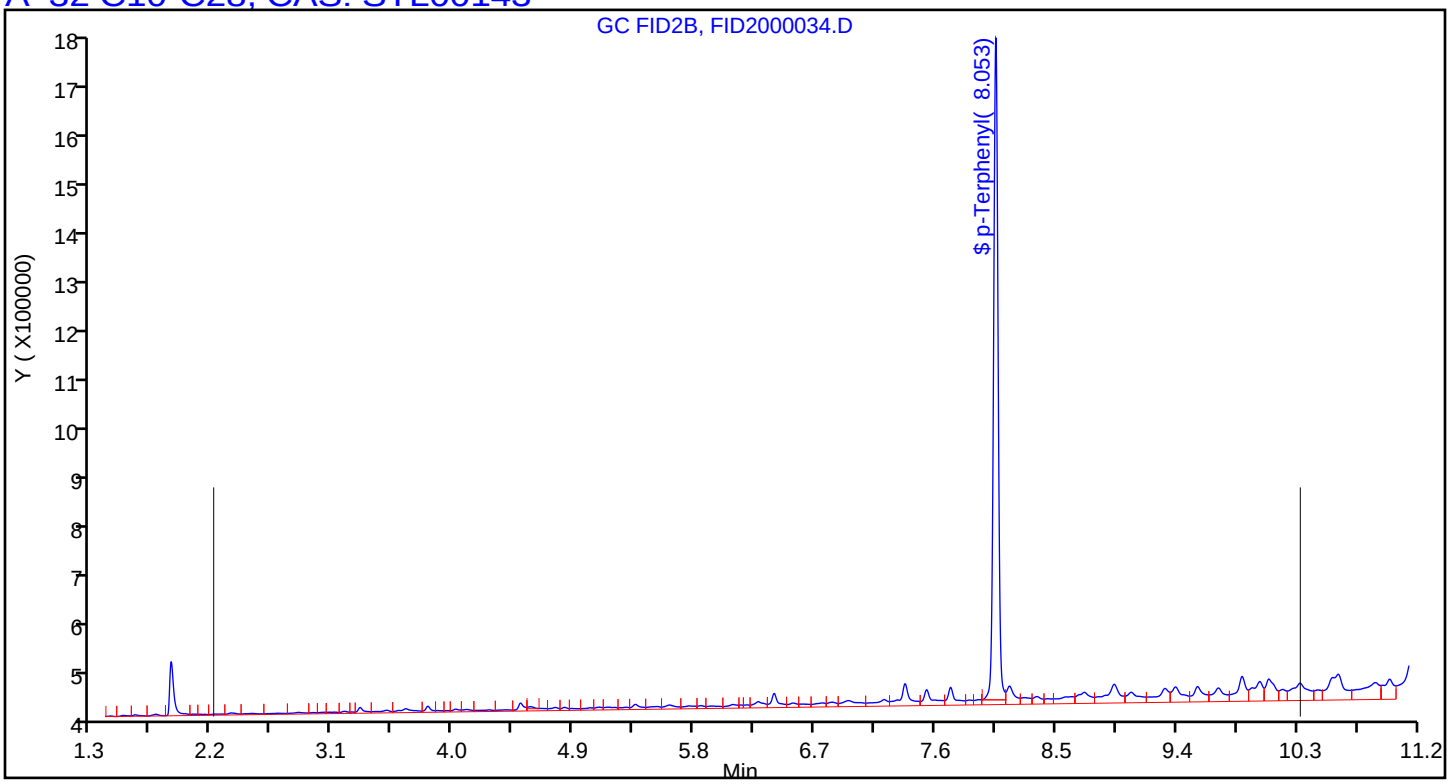
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.0	104.16

Report Date: 17-Jan-2019 14:30:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000034.D				
Injection Date:	17-Jan-2019 04:47:33	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-11-C	Lab Sample ID:	720-90673-11		
Client ID:	DG-AE7S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	84	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

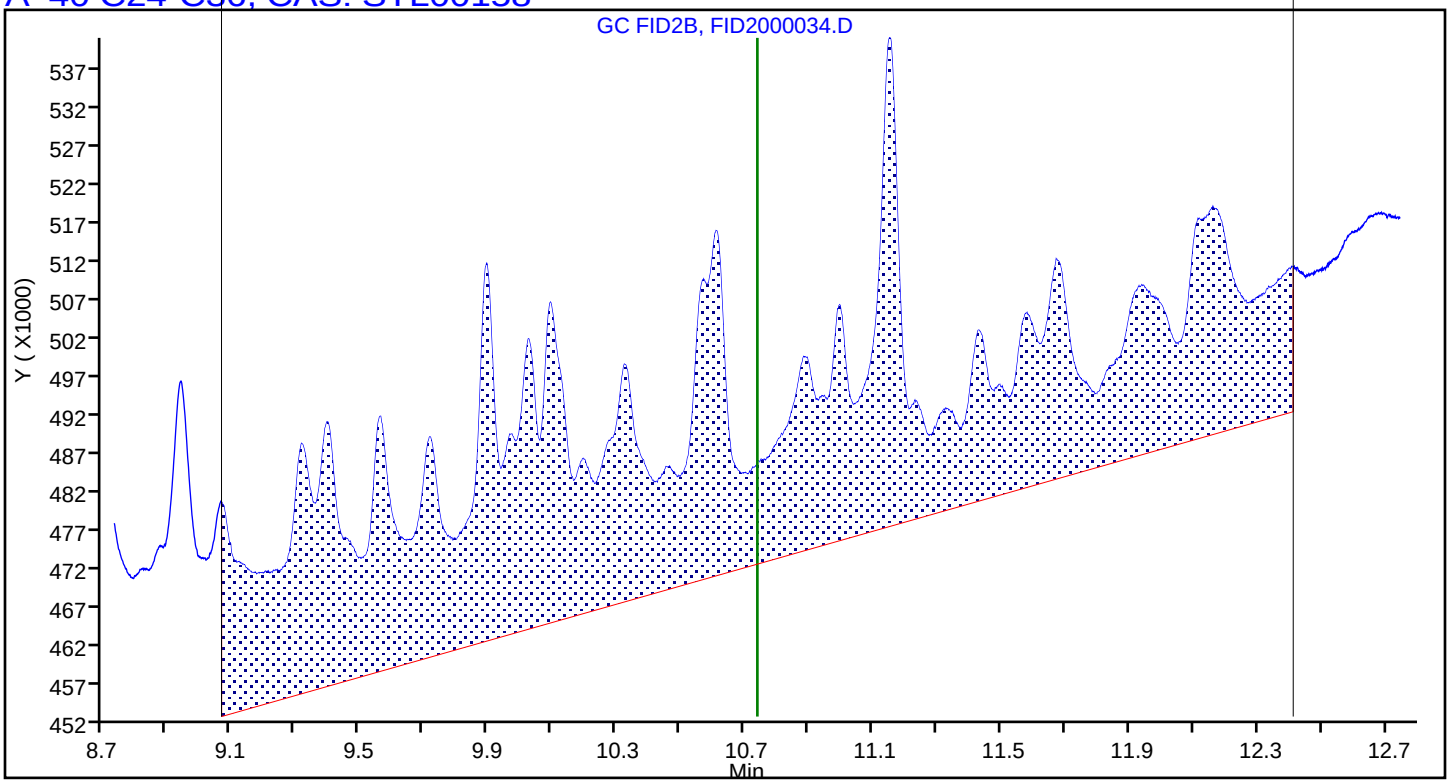


Report Date: 17-Jan-2019 14:30:06 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000034.D				
Injection Date:	17-Jan-2019 04:47:33	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-11-C	Lab Sample ID:	720-90673-11		
Client ID:	DG-AE7S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	84	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190117-56137.b\5a011719_039.d
Lims ID: 720-90673-E-12-C
Client ID: DG-AI7S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 03:11:23 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 016 Name: 720-0056137-039
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190117-56137.b\DRO5A.m
Limit Group: DRO
Last Update: 18-Jan-2019 11:09:56 Calib Date: 17-Jan-2019 09:30:38
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190117-56137.b\5a011719_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 11:09:56

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.469	2.548	-0.079	549	NC	
23 n-Decane	3.816	3.804	0.012	1078	NC	
A 1 C9-C13	4.532	(2.548-6.516)		13691	NC	
A 21 Stoddard Solvent	4.532	(2.548-6.516)		13691	NC	
A 57 C10-C12	4.758	(3.804-5.712)		7135	0.7280	
24 Dodecane		5.712			ND	
A 3 C9 - C17	5.897	(2.548-9.245)		40376	3.33	
A 47 C9 - C18	6.193	(2.548-9.838)		121008	11.2	
A 60 C10-C16	6.205	(3.804-8.607)		30519	2.77	
A 15 Kerosene	6.463	(2.548-10.377)		121008	11.2	
A 25 C9-C19	6.463	(2.548-10.377)		121008	9.91	
26 C13	6.500	6.516	-0.016	3198	NC	
$ 27 n-Decanoic Acid (Surr)		7.159			ND	U
A 59 C12-C16	7.159	(5.712-8.607)		25540	2.61	
A 62 C10-C20	7.359	(3.804-10.914)		447832	45.7	
A 28 C9-C24	7.697	(2.548-12.846)		1722766	175.8	
A 29 C9-C25	7.915	(2.548-13.283)		2269343	231.5	
A 54 C10-C23	8.098	(3.804-12.391)		1341054	136.8	
A 4 C10-C24	8.325	(3.804-12.846)		1719408	175.4	
A 16 C10-C25	8.543	(3.804-13.283)		2265985	231.2	
45 Hexadecane	8.566	8.607	-0.041	4854	NC	
A 14 C10-C26	8.754	(3.804-13.704)		2612009	266.5	
A 67 C12-C22	8.816	(5.712-11.920)		816629	83.3	
A 12 Unknown Hydrocarbons	9.153	(3.804-14.503)		3229247	NC	
A 32 C10-C28	9.153	(3.804-14.503)		3229247	329.5	
A 5 Diesel	9.153	(3.804-14.503)		3229247	329.5	
A 30 C13-C22	9.218	(6.516-11.920)		814473	83.1	
44 Heptadecane	9.254	9.245	0.009	22213	NC	
A 31 C12-C24	9.279	(5.712-12.846)		1714429	174.9	
49 n-Octadecane	9.744	9.838	-0.094	58419	NC	
A 9 Crude Oil Range Organics (	9.891	(2.548-17.234)		6863100	NC	
A 52 Mineral oil	9.891	(2.548-17.234)		6863100	612.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.891	(2.548-17.234)		5807817	NC	
33 C19		10.377			ND	
A 64 C13-C28	10.509	(6.516-14.503)		3222112	328.8	
A 17 C10-C36	10.519	(3.804-17.234)		5804459	592.2	
A 13 C9-C40	10.669	(2.548-18.789)		8333231	1018.6	
A 68 Crude Oil Range Organics (	10.669	(2.548-18.789)		8333231	NC	
A 58 C16-C24	10.726	(8.607-12.846)		1693743	172.8	
61 icosane		10.914			ND	
A 6 C10-C40	11.297	(3.804-18.789)		8327937	1018.3	
$ 34 p-Terphenyl		11.908			ND	U
35 n-Docosane		11.920			ND	
A 18 C12-C40	12.251	(5.712-18.789)		8313624	1016.9	
36 Tricosane	12.423	12.391	0.032	152135	NC	
A 66 C13-C40	12.653	(6.516-18.789)		8304294	1015.8	
37 n-Tetracosane	12.851	12.846	0.005	179857	NC	
A 2 C16-C36 ORO	12.920	(8.607-17.234)		6775001	892.7	
38 C25		13.283			ND	
A 19 C16-C40	13.698	(8.607-18.789)		8245132	1009.1	
46 n-Hexacosane	13.703	13.704	-0.001	188559	NC	
A 20 C19-C36	13.806	(10.377-17.234)		6077674	704.4	
A 55 C23-C32	14.171	(12.391-15.951)		3895599	819.2	
39 n-Octacosane	14.588	14.503	0.086	335879	NC	
65 C29	14.890	14.882	0.008	372240	NC	
A 7 Motor Oil	15.040	(12.846-17.234)		4524828	742.7	
A 40 C24-C36	15.040	(12.846-17.234)		4524828	742.7	
A 50 C25-C36	15.258	(13.283-17.234)		4139791	715.5	
A 10 C22-C40	15.354	(11.920-18.789)		6611773	790.9	
A 41 C23-C40	15.590	(12.391-18.789)		6264693	763.9	
A 8 C24-C40	15.817	(12.846-18.789)		5890818	740.5	
56 Dotriacontane	15.940	15.951	-0.011	159651	NC	
A 51 C28-C40	16.646	(14.503-18.789)		4270884	699.2	
A 63 C29-C40	16.836	(14.882-18.789)		3804534	687.0	
42 n-Hexatriacontane	17.321	17.234	0.087	1722929	NC	
43 C40		18.789			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

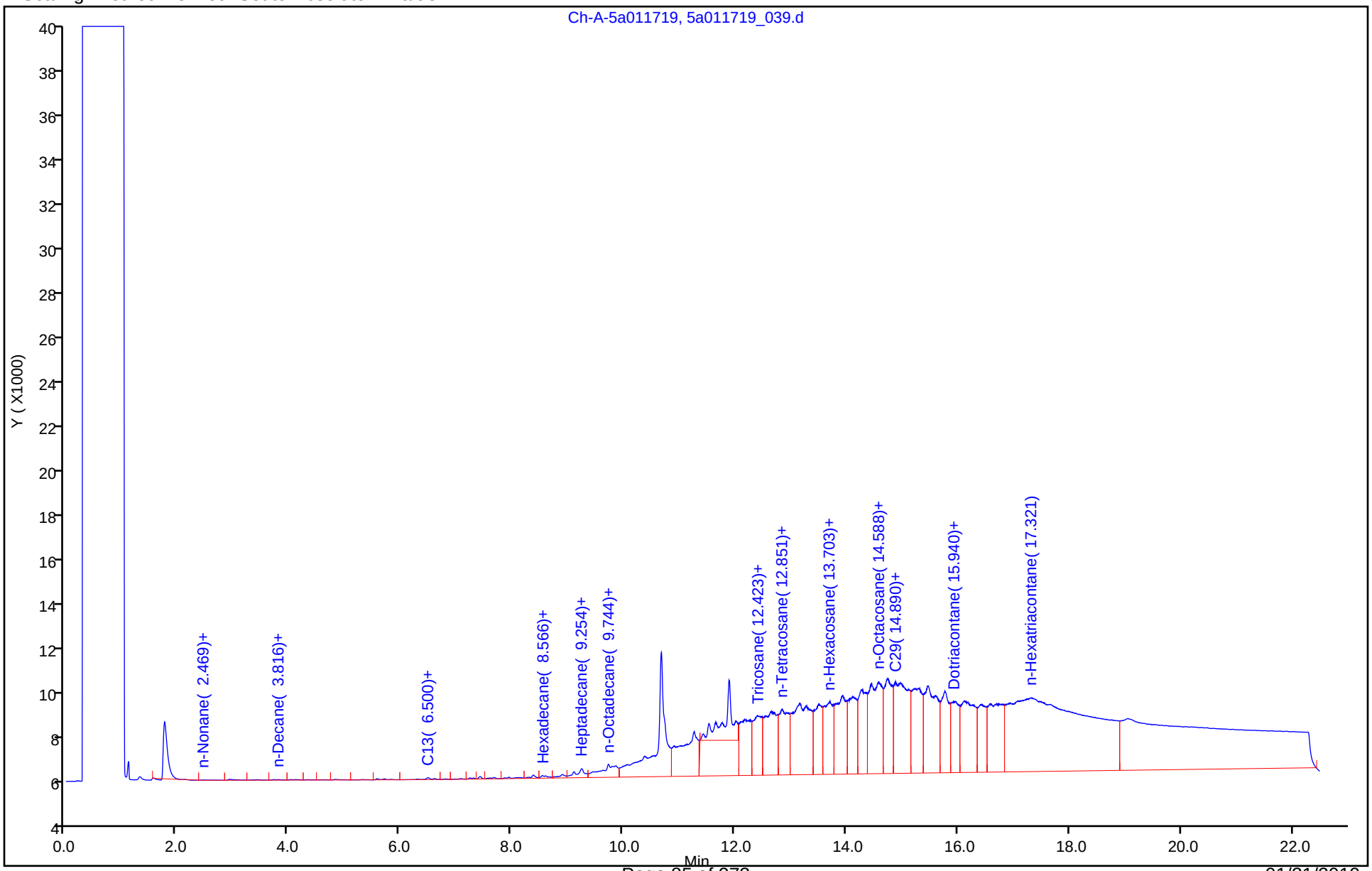
Report Date: 18-Jan-2019 11:09:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190117-56137.b\5a011719_039.d

Injection Date:	18-Jan-2019 03:11:23	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-12-C	Lab Sample ID:	720-90673-12	Worklist Smp#:	39
Client ID:	DG-AI7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

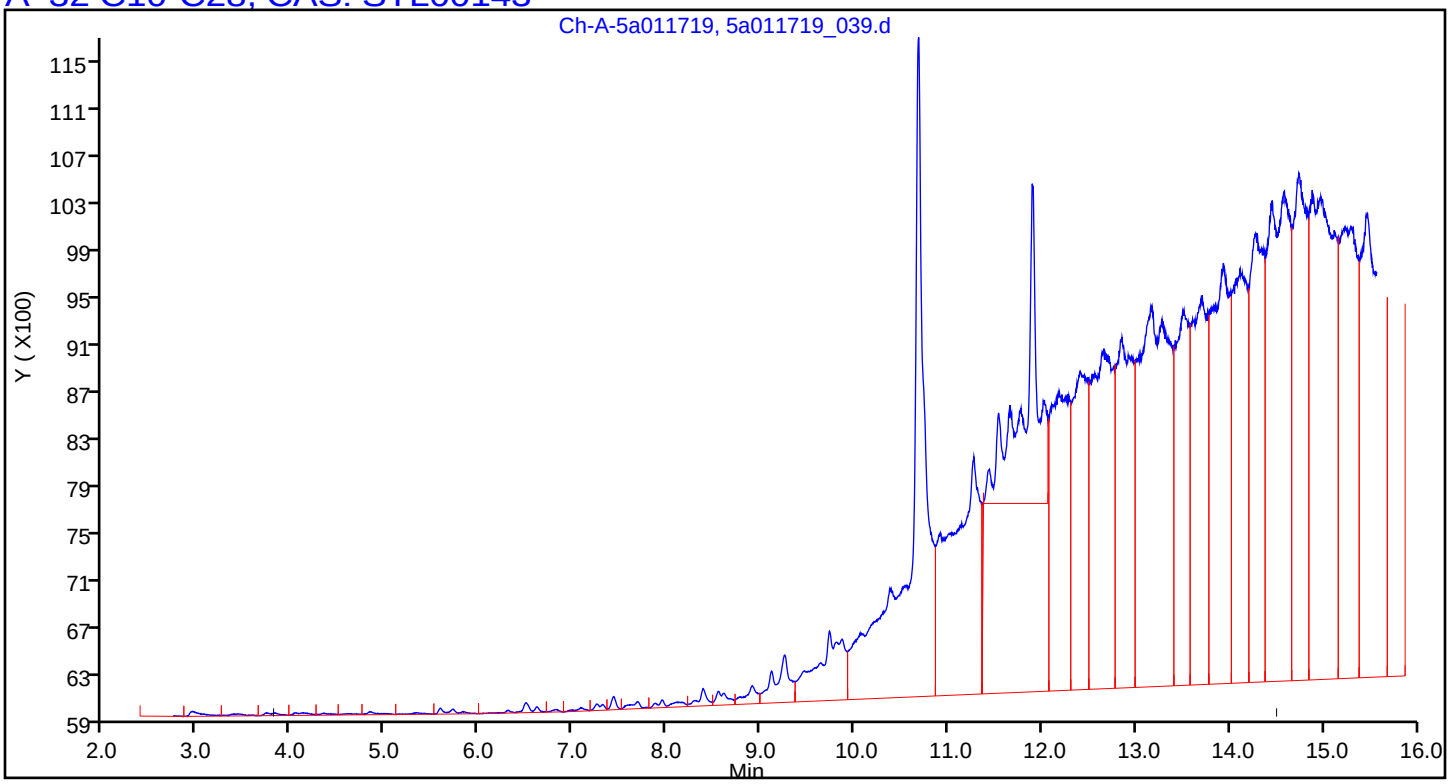


Report Date: 18-Jan-2019 11:09:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190117-56137.b\5a011719_039.d				
Injection Date:	18-Jan-2019 03:11:23	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-12-C	Lab Sample ID:	720-90673-12		
Client ID:	DG-AI7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

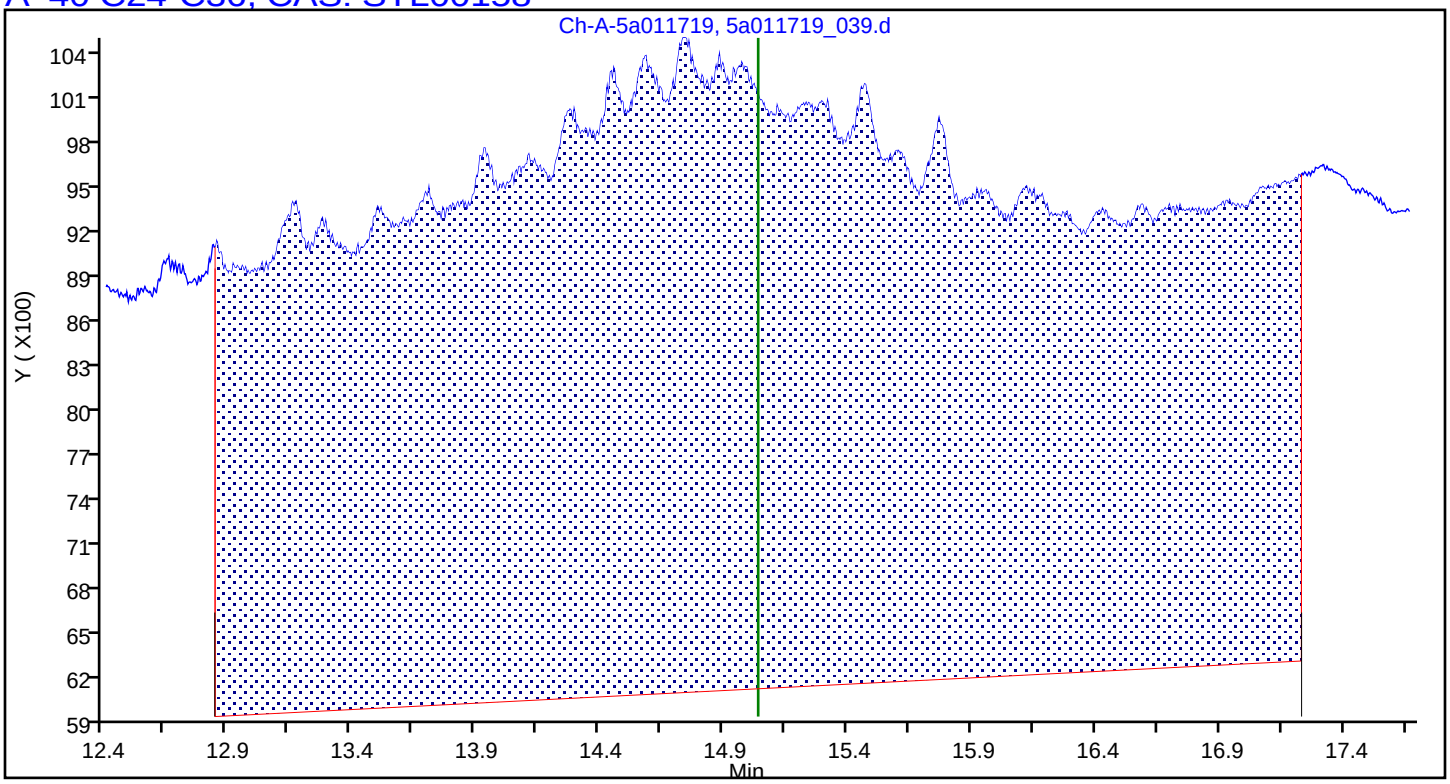


Report Date: 18-Jan-2019 11:09:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190117-56137.b\5a011719_039.d				
Injection Date:	18-Jan-2019 03:11:23	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-12-C	Lab Sample ID:	720-90673-12		
Client ID:	DG-AI7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



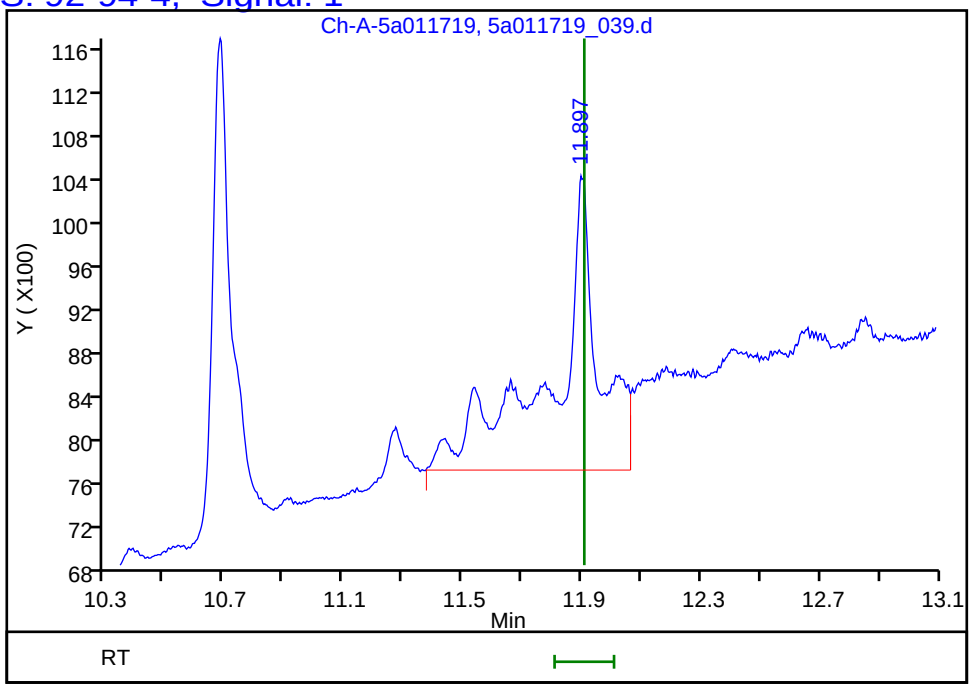
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190117-56137.b\5a011719_039.d				
Injection Date:	18-Jan-2019 03:11:23	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-12-C	Lab Sample ID:	720-90673-12		
Client ID:	DG-AI7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.90
Response: 147360
Amount: 12.357322



Reviewer: hayashid, 18-Jan-2019 11:09:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_032.d
Lims ID: 720-90673-E-13-C
Client ID: DG-AI7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 05:09:10 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 010 Name: 720-0056113-032
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\DRO5A.m
Limit Group: DRO
Last Update: 17-Jan-2019 13:20:58 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 13:20:58

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.490	2.554	-0.064	7307	NC	M
23 n-Decane	3.727	3.800	-0.073	3306	NC	M
A 1 C9-C13	4.537	(2.554-6.519)		85535	NC	M
A 21 Stoddard Solvent	4.537	(2.554-6.519)		85535	NC	M
A 57 C10-C12	4.758	(3.800-5.715)		48611	4.96	M
24 Dodecane	5.640	5.715	-0.075	9697	NC	M
A 3 C9 - C17	5.900	(2.554-9.247)		174349	14.4	M
A 47 C9 - C18	6.196	(2.554-9.839)		243051	22.6	M
A 60 C10-C16	6.204	(3.800-8.608)		140151	12.7	M
A 15 Kerosene	6.466	(2.554-10.378)		259913	24.1	M
A 25 C9-C19	6.466	(2.554-10.378)		259913	21.3	M
26 C13	6.480	6.519	-0.039	4579	NC	M
$ 27 n-Decanoic Acid (Surr)		7.160			ND	U
A 59 C12-C16	7.161	(5.715-8.608)		101237	10.3	M
A 62 C10-C20	7.357	(3.800-10.914)		374947	38.3	M
A 28 C9-C24	7.700	(2.554-12.845)		832728	85.0	M
A 29 C9-C25	7.919	(2.554-13.283)		995991	101.6	M
A 54 C10-C23	8.096	(3.800-12.391)		678707	69.2	M
A 4 C10-C24	8.323	(3.800-12.845)		809476	82.6	M
A 16 C10-C25	8.542	(3.800-13.283)		972739	99.2	M
45 Hexadecane	8.550	8.608	-0.058	10960	NC	M
A 14 C10-C26	8.752	(3.800-13.703)		1367268	139.5	M
A 67 C12-C22	8.817	(5.715-11.919)		639793	65.3	M
A 12 Unknown Hydrocarbons	9.151	(3.800-14.502)		1860074	NC	M
A 32 C10-C28	9.151	(3.800-14.502)		1860074	189.8	M
A 5 Diesel	9.151	(3.800-14.502)		1860074	189.8	M
A 30 C13-C22	9.219	(6.519-11.919)		621003	63.4	M
44 Heptadecane	9.260	9.247	0.013	33347	NC	M
A 31 C12-C24	9.280	(5.715-12.845)		770562	78.6	M
49 n-Octadecane	9.867	9.839	0.028	16862	NC	M
A 9 Crude Oil Range Organics (	9.894	(2.554-17.234)		5058304	NC	
A 52 Mineral oil	9.894	(2.554-17.234)		5058304	451.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.894	(2.554-17.234)		4471163	NC	M
33 C19	10.387	10.378	0.009	61168	NC	M
A 64 C13-C28	10.511	(6.519-14.502)		1802370	183.9	M
A 17 C10-C36	10.517	(3.800-17.234)		4447911	453.8	M
A 13 C9-C40	10.672	(2.554-18.789)		6338633	764.4	
A 68 Crude Oil Range Organics (	10.672	(2.554-18.789)		6338633	NC	
A 58 C16-C24	10.727	(8.608-12.845)		680285	69.4	M
61 icosane	10.927	10.914	0.013	23643	NC	M
A 6 C10-C40	11.295	(3.800-18.789)		6323577	762.9	
$ 34 p-Terphenyl	11.903	11.908	-0.005	308169	25.8	M
35 n-Docosane		11.919			ND	
A 18 C12-C40	12.252	(5.715-18.789)		6270233	756.5	
36 Tricosane	12.393	12.391	0.002	130769	NC	M
A 66 C13-C40	12.654	(6.519-18.789)		6243422	753.3	
37 n-Tetracosane	12.857	12.845	0.012	163263	NC	M
A 2 C16-C36 ORO	12.921	(8.608-17.234)		4840648	637.8	
38 C25	13.293	13.283	0.010	229011	NC	M
A 19 C16-C40	13.699	(8.608-18.789)		6120977	738.3	
46 n-Hexacosane	13.700	13.703	-0.003	165518	NC	M
A 20 C19-C36	13.806	(10.378-17.234)		4107157	476.0	
A 55 C23-C32	14.171	(12.391-15.950)		2686771	565.0	
39 n-Octacosane	14.420	14.502	-0.082	227145	NC	M
65 C29	14.923	14.882	0.041	393086	NC	M
A 7 Motor Oil	15.040	(12.845-17.234)		3529069	579.3	
A 40 C24-C36	15.040	(12.845-17.234)		3529069	579.3	
A 50 C25-C36	15.258	(13.283-17.234)		3358249	580.5	
A 10 C22-C40	15.354	(11.919-18.789)		4729457	565.7	
A 41 C23-C40	15.590	(12.391-18.789)		4845153	590.8	
A 8 C24-C40	15.817	(12.845-18.789)		4691481	589.7	
56 Dotriacontane	15.910	15.950	-0.040	147523	NC	M
A 51 C28-C40	16.646	(14.502-18.789)		3842275	620.8	
A 63 C29-C40	16.835	(14.882-18.789)		3535682	631.9	
42 n-Hexatriacontane		17.234			ND	
43 C40		18.789			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

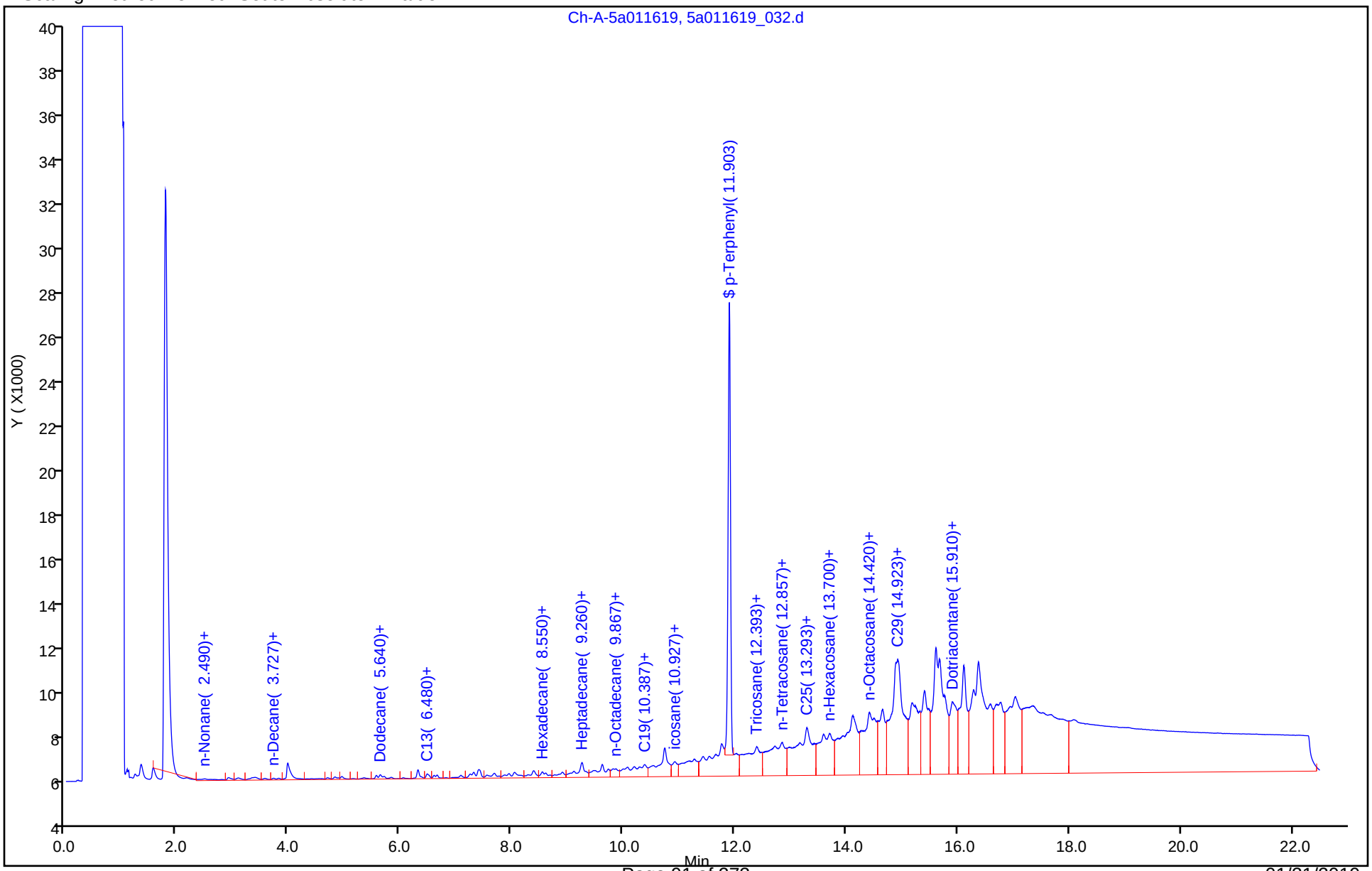
Report Date: 17-Jan-2019 13:20:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_032.d

Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-13-C	Lab Sample ID:	720-90673-13	Worklist Smp#:	32
Client ID:	DG-AI7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_032.d				
Lims ID:	720-90673-E-13-C				
Client ID:	DG-AI7S-3.5-4				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 05:09:10	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 010 Name: 720-0056113-032				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 13:20:58	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 13:20:58

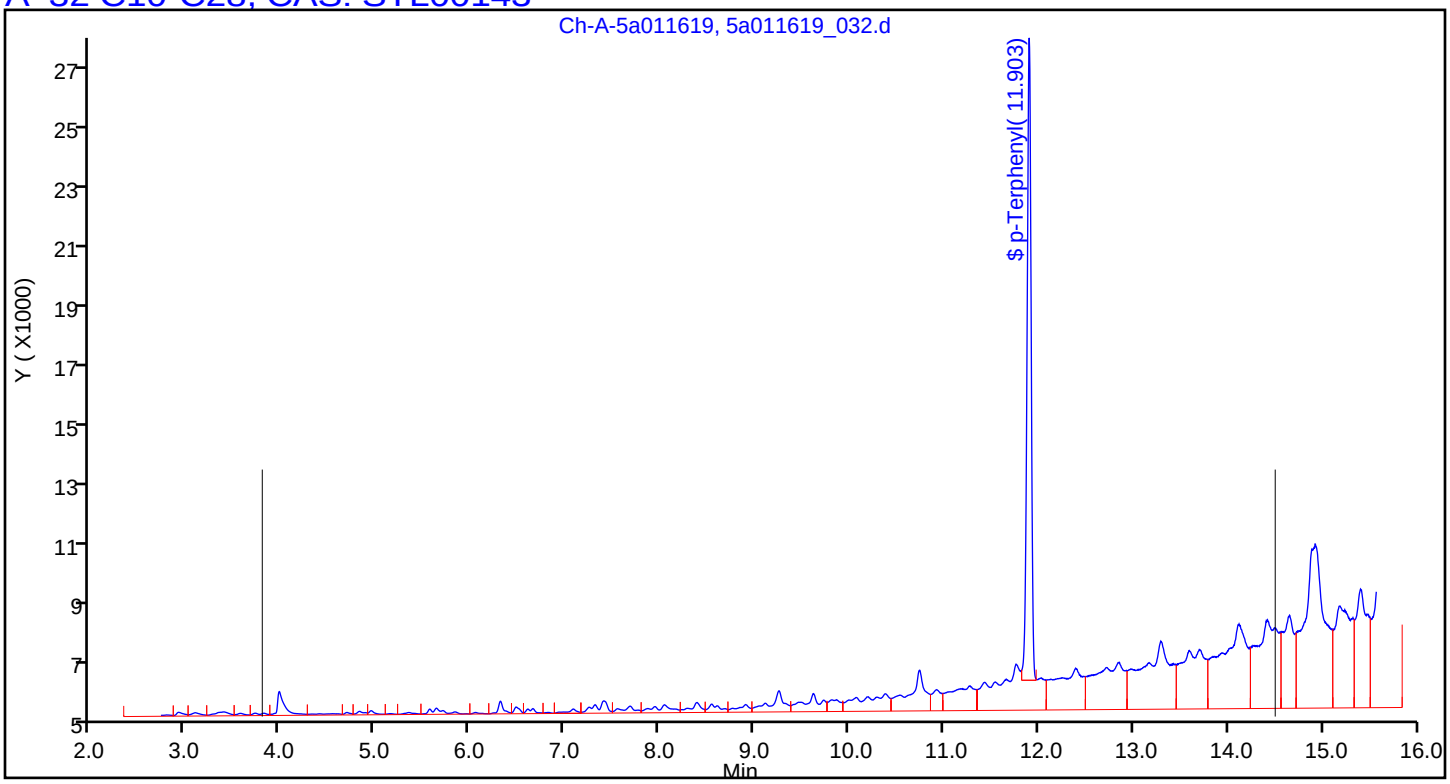
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.8	103.37

Report Date: 17-Jan-2019 13:21:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_032.d				
Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-13-C	Lab Sample ID:	720-90673-13		
Client ID:	DG-AI7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

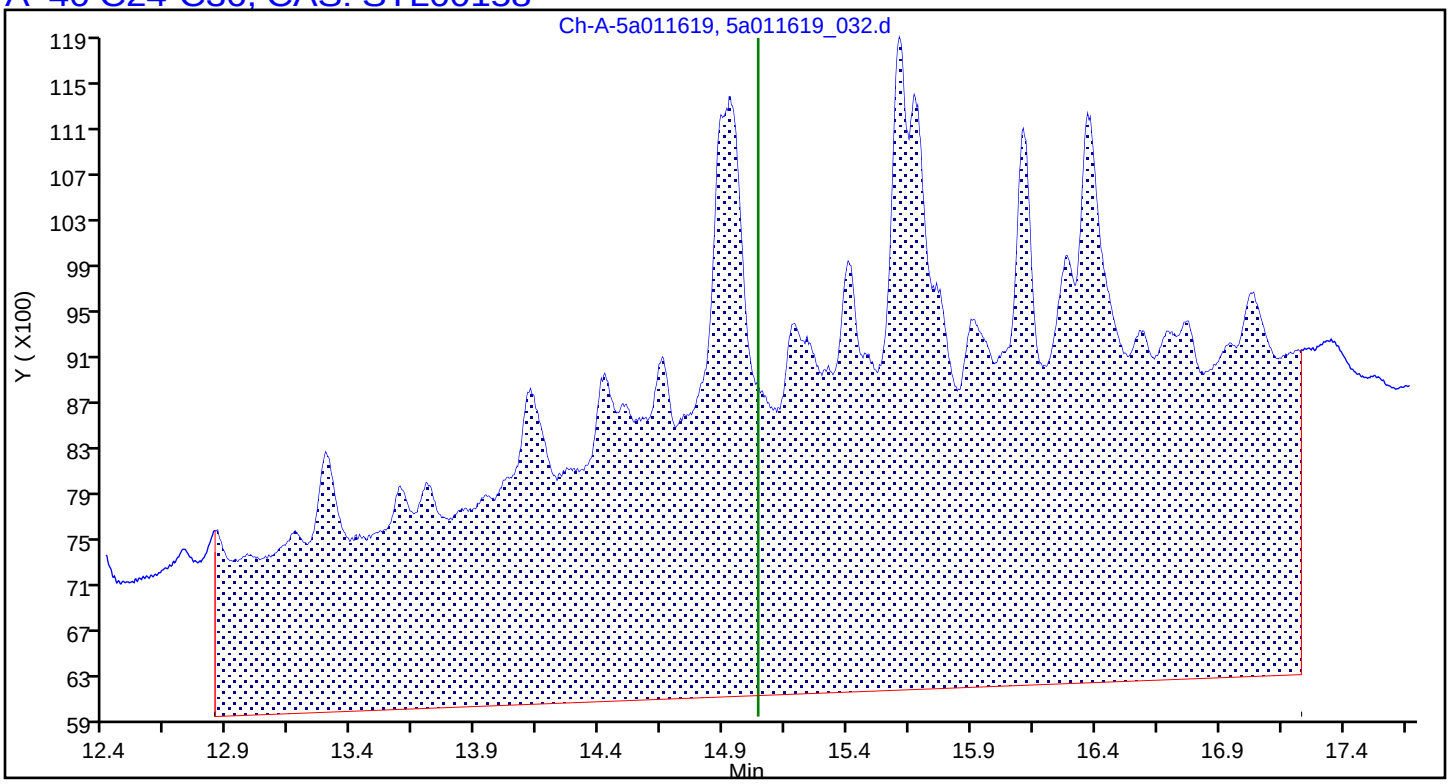


Report Date: 17-Jan-2019 13:21:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_032.d				
Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-13-C	Lab Sample ID:	720-90673-13		
Client ID:	DG-AI7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

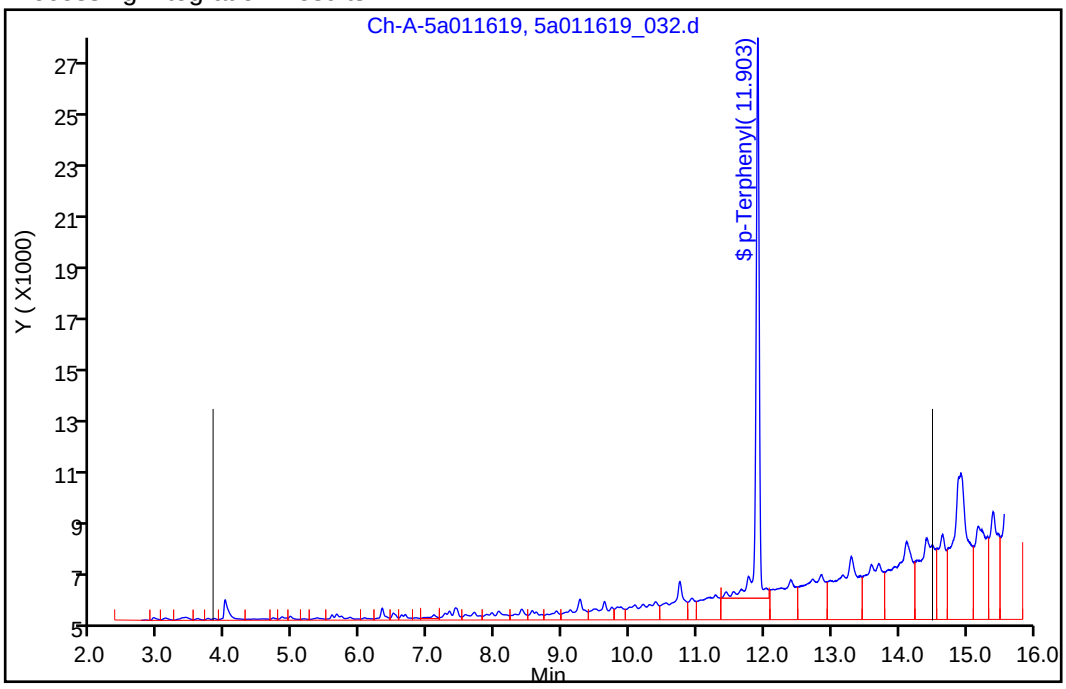
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_032.d				
Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-13-C	Lab Sample ID:	720-90673-13		
Client ID:	DG-AI7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.151, CAS: STL00143

Signal: 1

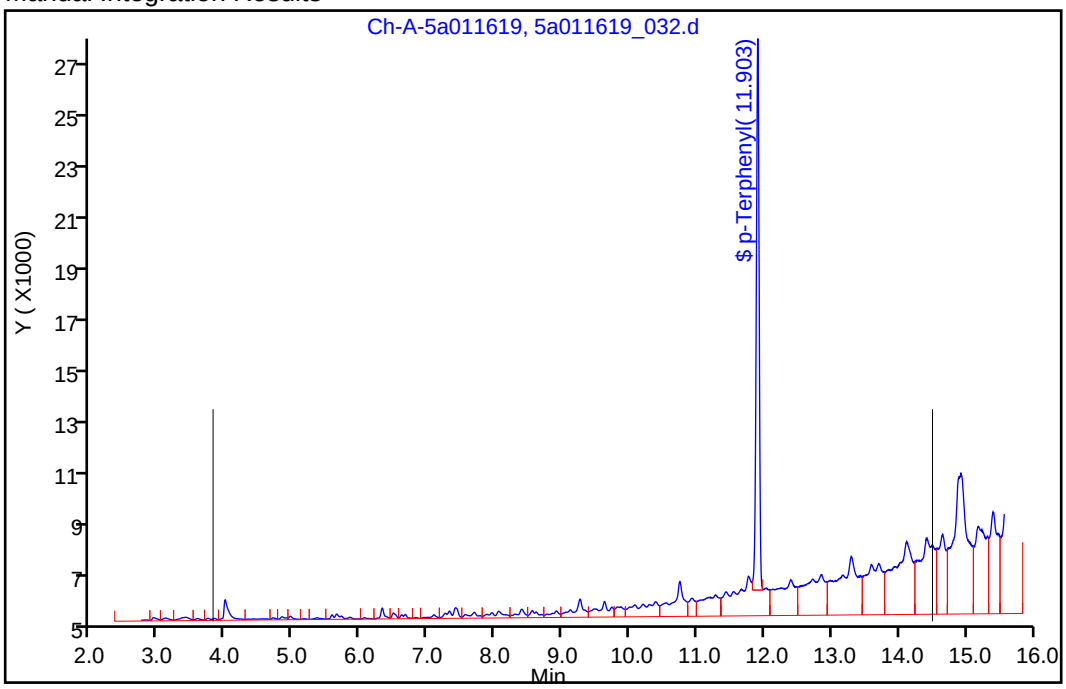
Processing Integration Results

RT: 9.15
Response: 2083871
Amount: 212.6179



Manual Integration Results

RT: 9.15
Response: 1860074
Amount: 189.7838



Reviewer: luj, 17-Jan-2019 13:20:35

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

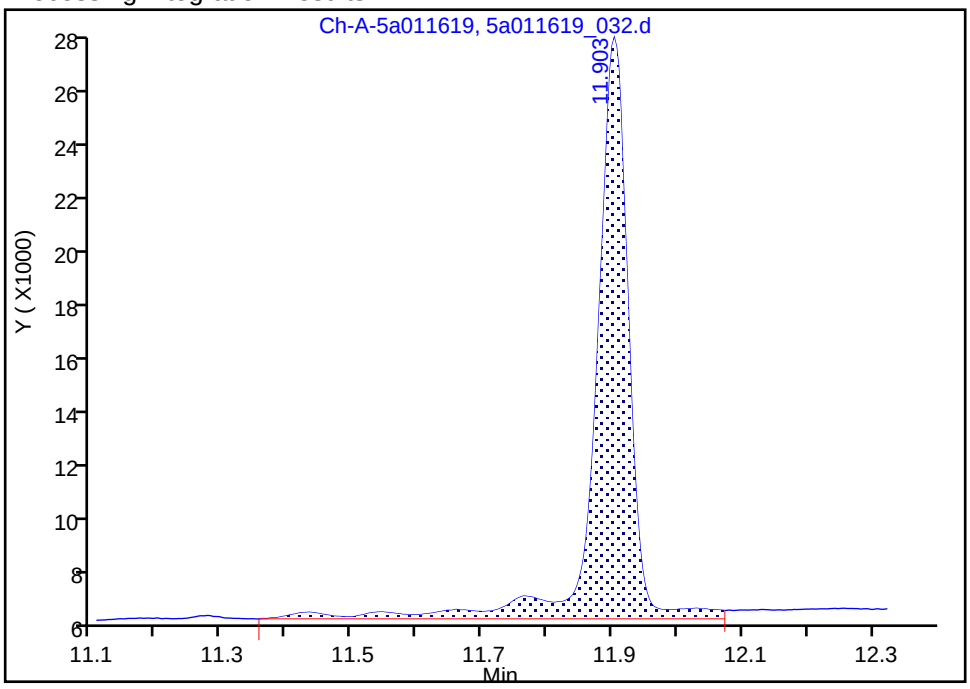
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56113.b\5a011619_032.d				
Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-13-C	Lab Sample ID:	720-90673-13		
Client ID:	DG-AI7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

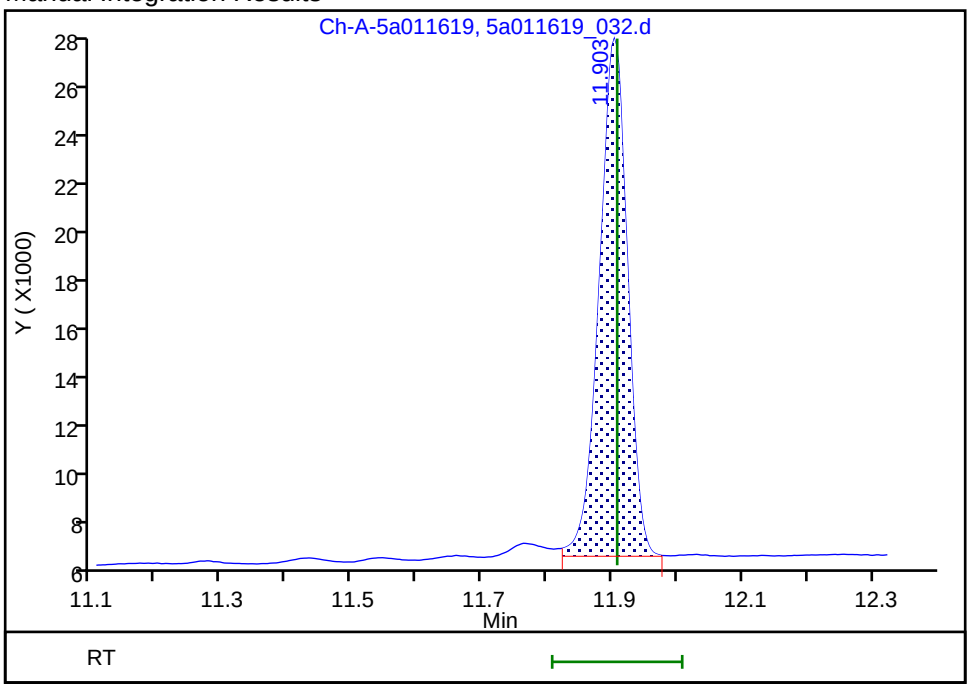
Processing Integration Results

RT: 11.90
Area: 370799
Amount: 31.094481
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 308169
Amount: 25.842451
Amount Units: mg/L



Reviewer: luj, 17-Jan-2019 13:20:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000036.D
Lims ID: 720-90673-E-14-C
Client ID: DG-AI7S-8-8.5
Sample Type: Client
Inject. Date: 17-Jan-2019 05:36:10 ALS Bottle#: 86 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-036
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 15:27:32 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 15:27:32

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.352	1.353	-0.001	743327	NC	M
	23 n-Decane	2.208	2.210	-0.002	4843993	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		120214144	50.5	M
A	1 C9-C13	2.811	(1.353-4.270)		120214144	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		61039537	30.9	M
	24 Dodecane	3.657	3.658	-0.001	4370100	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		441657098	153.8	M
A	60 C10-C16	4.030	(2.210-5.850)		321000848	125.4	M
A	47 C9 - C18	4.060	(1.353-6.766)		580794579	256.0	M
	26 C13	4.269	4.270	-0.001	7135688	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		696410522	241.1	M
A	15 Kerosene	4.272	(1.353-7.191)		696410522	306.5	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		264331411	133.7	M
A	61 C10-C20	4.904	(2.210-7.598)		963515425	487.2	M
A	28 C9-C24	5.209	(1.353-9.066)		2108261416	1066.1	M
A	29 C9-C25	5.376	(1.353-9.398)		2477754883	1253.0	M
A	54 C10-C23	5.465	(2.210-8.720)		1805402313	913.0	M
A	4 C10-C24	5.638	(2.210-9.066)		2092104821	1058.0	M
A	16 C10-C25	5.804	(2.210-9.398)		2461598288	1244.8	M
	45 Hexadecane	5.847	5.850	-0.003	31875533	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		2620259726	1325.1	M
A	67 C12-C22	6.009	(3.658-8.361)		1516786003	767.0	M
A	32 C10-C28	6.269	(2.210-10.328)		3275846696	1656.6	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		3275846696	NC	M
A	5 Diesel	6.269	(2.210-10.328)		3275846696	1656.6	M
A	30 C13-C22	6.315	(4.270-8.361)		1476533579	746.7	M
	44 Heptadecane	6.320	6.321	0.000	35946086	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		2035435384	1029.3	M
	49 n-Octadecane	6.764	6.766	-0.002	53198779	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		5195588996	2257.5	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		5195588996	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		5195588996	NC	M
33 C19	7.220	7.191	0.029	124110017	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		3178924835	1607.6	M
A 17 C10-C36	7.312	(2.210-12.413)		5179432401	2619.2	M
A 13 C9-C40	7.373	(1.353-13.393)		5881861220	3318.2	EM
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		5881861220	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		1802979506	911.8	M
62 icosane	7.602	7.598	0.004	46336150	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		5865704625	3312.9	EM
$ 34 p-Terphenyl	8.052	8.057	-0.005	41344967	17.5	
35 n-Docosane	8.361	8.361	0.000	59937049	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		5809035188	3292.9	EM
36 Tricosane	8.721	8.720	0.001	65362703	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		5768782764	3273.0	EM
37 n-Tetracosane	9.068	9.066	0.002	70942631	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		4890307086	3611.7	EM
38 C25	9.396	9.398	-0.002	84742856	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		5576579310	3170.3	EM
46 n-Hexacosane	9.730	9.719	0.011	107242845	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		3385888543	2103.1	
A 55 C23-C32	10.077	(8.720-11.433)		2629663481	2964.5	M
39 n-Octacosane	10.384	10.328	0.056	210839795	NC	M
65 C29	10.612	10.618	-0.006	98566039	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		2507797059	2167.9	
A 40 C24-C36	10.740	(9.066-12.413)		2917454258	2522.0	M
A 10 C22-C40	10.877	(8.361-13.393)		3058060755	1888.9	
A 50 C25-C36	10.906	(9.398-12.413)		2104219084	1943.8	
A 41 C23-C40	11.057	(8.720-13.393)		2833521123	1784.3	
A 8 C24-C40	11.229	(9.066-13.393)		2616860834	1683.7	
56 Dotriacontane	11.418	11.433	-0.015	109116458	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		1676690301	1347.9	
A 63 C29-C40	12.006	(10.618-13.393)		1422879796	1246.0	
42 n-Hexatriacontane		12.413			ND	
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

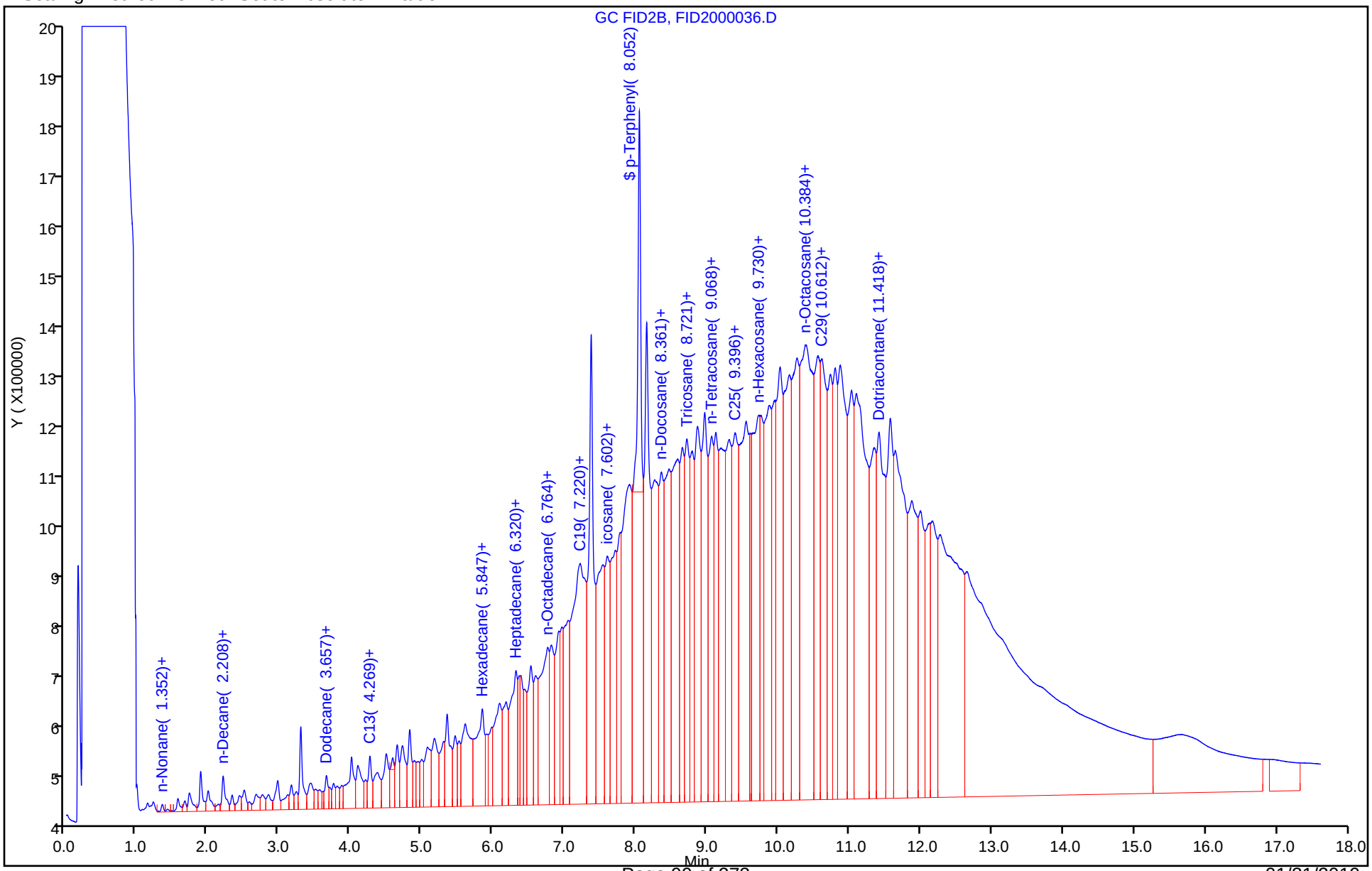
Report Date: 17-Jan-2019 15:27:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000036.D

Injection Date:	17-Jan-2019 05:36:10	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-14-C	Lab Sample ID:	720-90673-14	Worklist Smp#:	36
Client ID:	DG-AI7S-8-8.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	86
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000036.D
Lims ID: 720-90673-E-14-C
Client ID: DG-AI7S-8-8.5
Sample Type: Client
Inject. Date: 17-Jan-2019 05:36:10 ALS Bottle#: 86 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-036
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 15:27:32 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 15:27:32

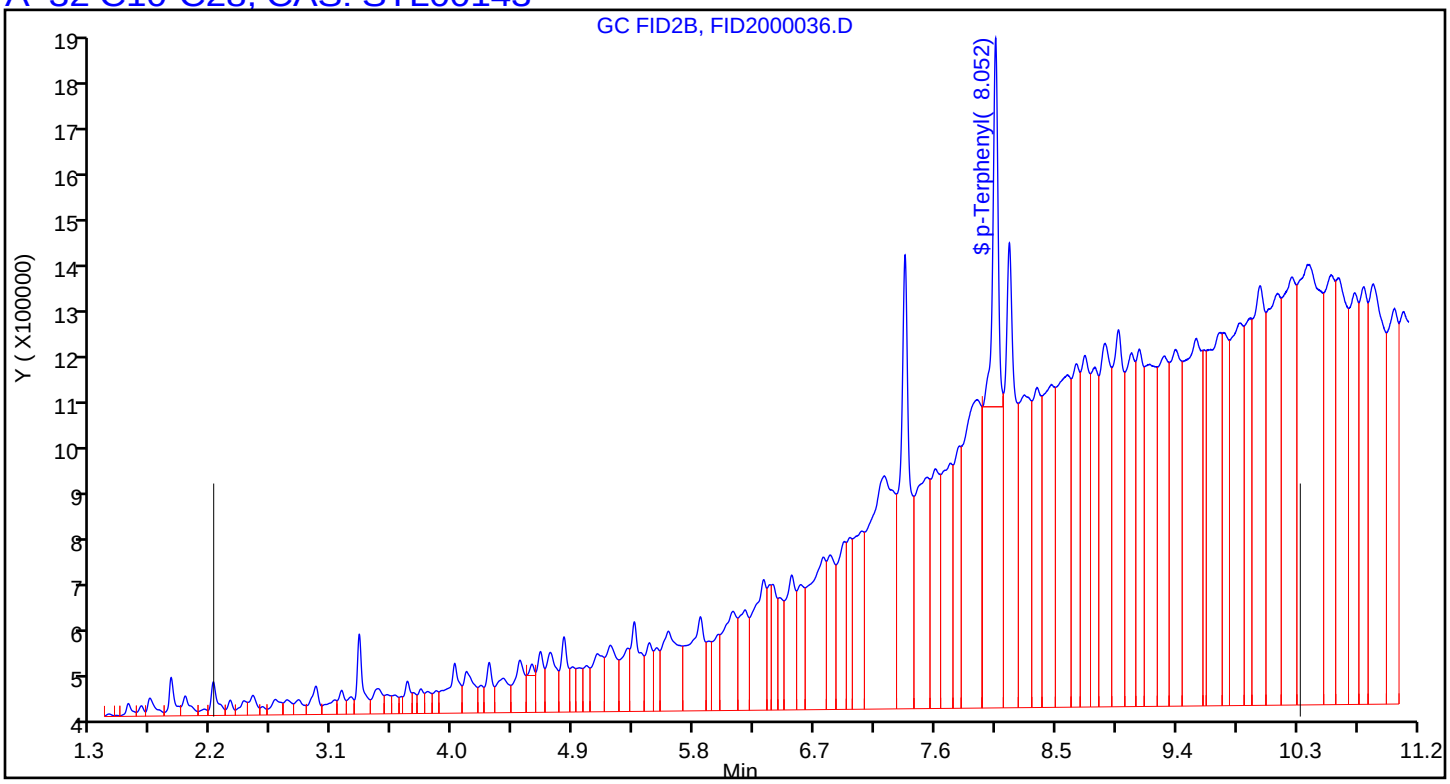
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	17.5	70.13

Report Date: 17-Jan-2019 15:27:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000036.D				
Injection Date:	17-Jan-2019 05:36:10	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-14-C	Lab Sample ID:	720-90673-14		
Client ID:	DG-AI7S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

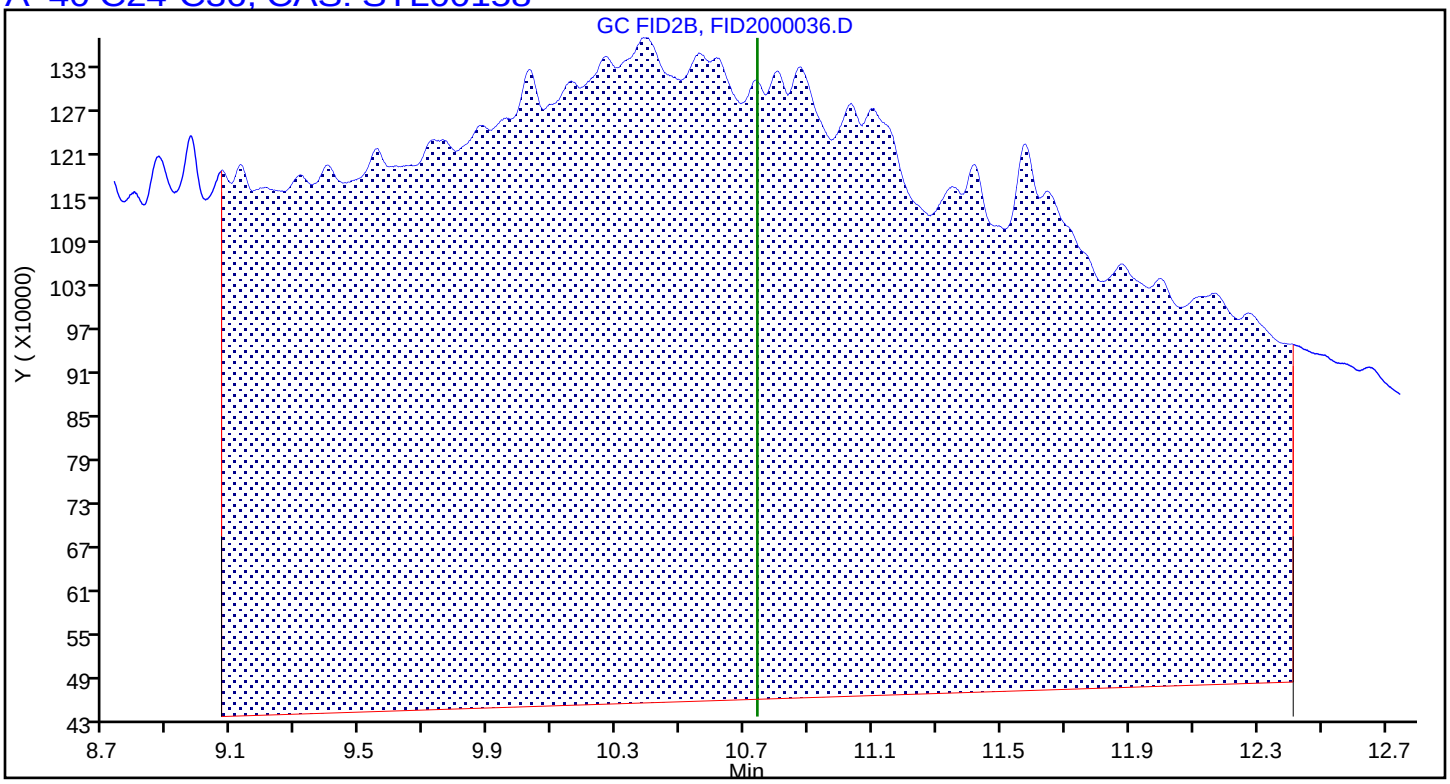


Report Date: 17-Jan-2019 15:27:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000036.D				
Injection Date:	17-Jan-2019 05:36:10	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-14-C	Lab Sample ID:	720-90673-14		
Client ID:	DG-AI7S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

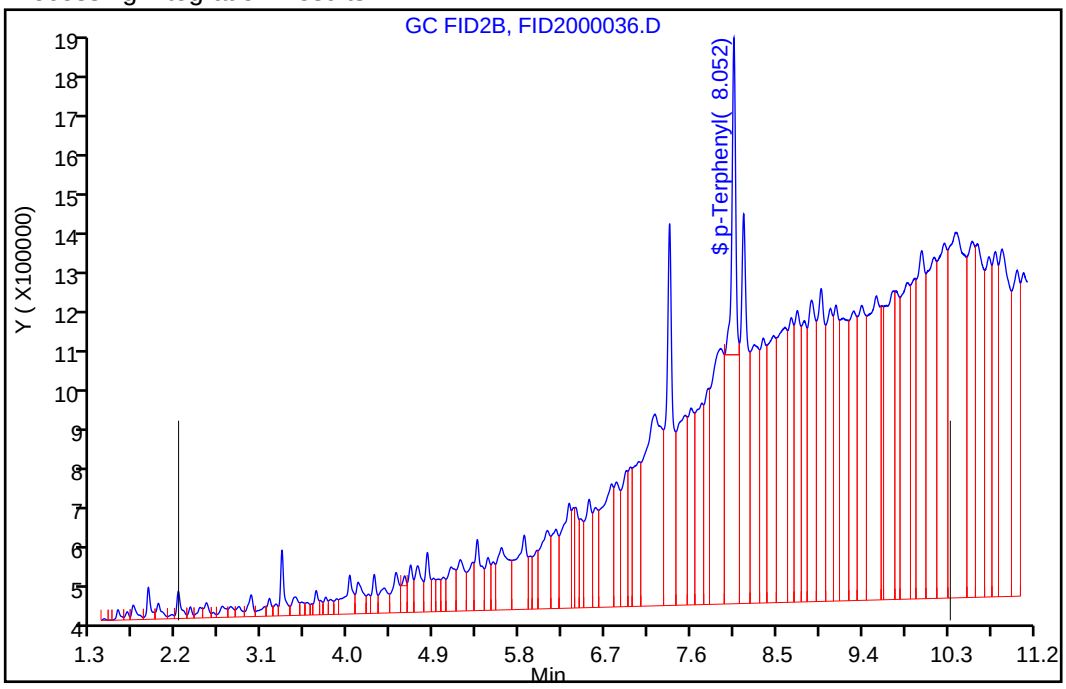
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Injection Date:	17-Jan-2019 05:36:10	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-14-C	Lab Sample ID:	720-90673-14		
Client ID:	DG-AI7S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

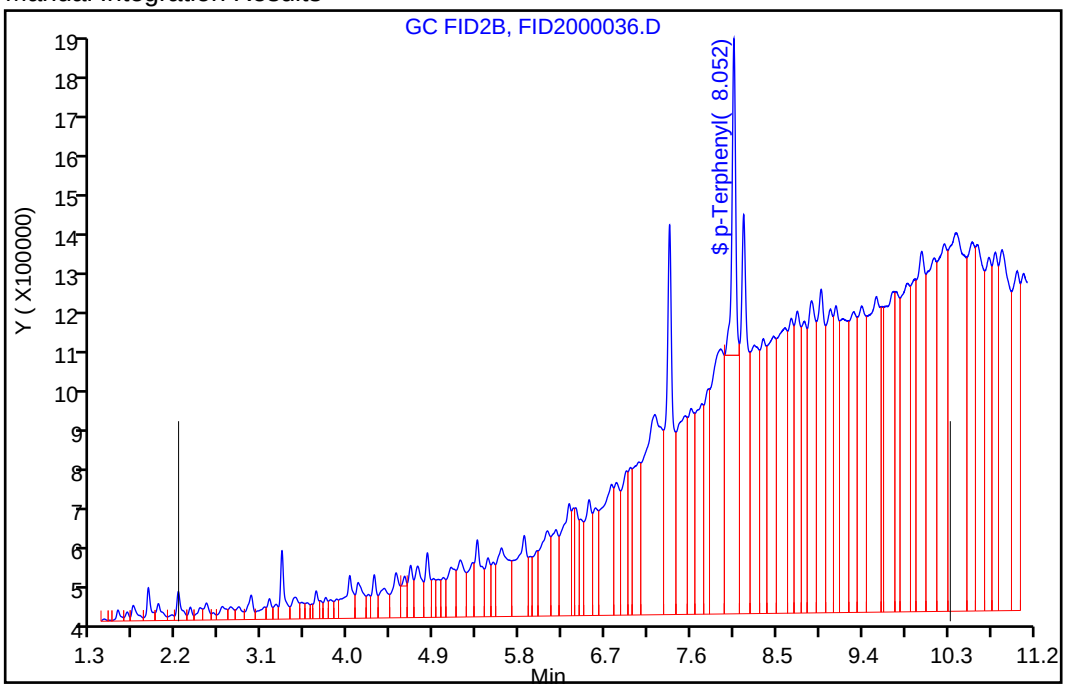
Processing Integration Results

RT: 6.27
Response: 3079885212
Amount: 1557.4802



Manual Integration Results

RT: 6.27
Response: 3275846696
Amount: 1656.5768



Reviewer: luj, 17-Jan-2019 15:27:26

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

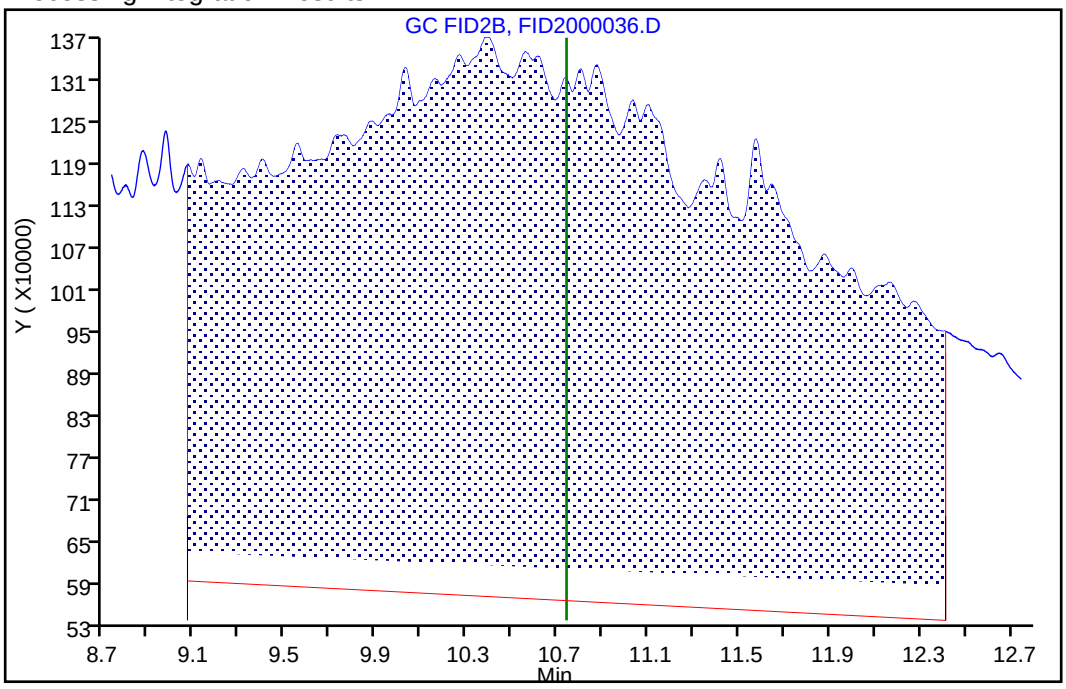
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000036.D				
Injection Date:	17-Jan-2019 05:36:10	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-14-C	Lab Sample ID:	720-90673-14		
Client ID:	DG-AI7S-8-8.5				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

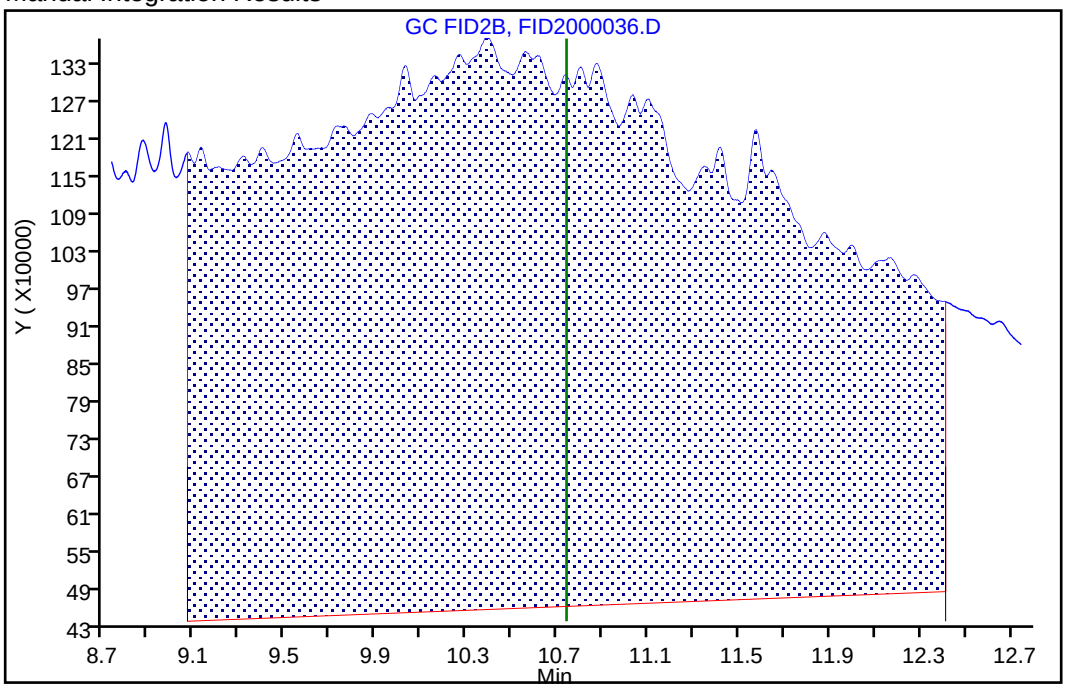
Processing Integration Results

RT:	10.74
Response:	2507797059
Amount:	2167.8632



Manual Integration Results

RT:	10.74
Response:	2917454258
Amount:	2521.9910



Reviewer: luj, 17-Jan-2019 15:27:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_032.d
Lims ID: 720-90673-E-15-C
Client ID: DG-AK7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 05:09:10 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 109 Name: 720-0056114-032
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:32:07 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:32:07

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.703	2.678	0.025	2980	NC	M
	23 n-Decane		3.894			ND	
A	1 C9-C13	4.631	(2.678-6.584)		140332	11.1	M
A	21 Stoddard Solvent	4.631	(2.678-6.584)		140332	12.3	M
A	57 C10-C12	4.840	(3.894-5.786)		72836	7.42	M
	24 Dodecane	5.780	5.786	-0.006	6229	NC	M
A	3 C9 - C17	5.982	(2.678-9.286)		602194	42.6	M
A	47 C9 - C18	6.271	(2.678-9.863)		1037534	92.4	M
A	60 C10-C16	6.276	(3.894-8.659)		442588	35.5	M
A	15 Kerosene	6.548	(2.678-10.418)		1037534	92.2	M
A	25 C9-C19	6.548	(2.678-10.418)		1037534	73.3	M
	26 C13	6.533	6.584	-0.051	15082	NC	M
$	27 n-Decanoic Acid (Surr)		7.194			ND	U
A	59 C12-C16	7.222	(5.786-8.659)		375981	38.3	M
A	62 C10-C20	7.423	(3.894-10.952)		2342247	238.6	M
A	28 C9-C24	7.775	(2.678-12.871)		8016624	816.5	M
A	29 C9-C25	7.992	(2.678-13.305)		9767074	994.8	M
A	54 C10-C23	8.157	(3.894-12.420)		6516158	663.7	M
A	4 C10-C24	8.382	(3.894-12.871)		7989098	813.7	M
A	16 C10-C25	8.599	(3.894-13.305)		9739548	992.0	M
	45 Hexadecane		8.659			ND	
A	14 C10-C26	8.809	(3.894-13.724)		11345127	1155.5	M
A	67 C12-C22	8.868	(5.786-11.951)		5334462	543.3	M
A	5 Diesel	9.206	(3.894-14.518)		15240501	1552.3	M
A	32 C10-C28	9.206	(3.894-14.518)		15240501	1552.3	M
A	12 Unknown Hydrocarbons	9.206	(3.894-14.518)		15240501	NC	M
A	30 C13-C22	9.267	(6.584-11.951)		5303345	540.2	M
	44 Heptadecane	9.307	9.286	0.021	94163	NC	M
A	31 C12-C24	9.328	(5.786-12.871)		7922491	806.9	M
	49 n-Octadecane		9.863			ND	
A	52 Mineral oil	9.956	(2.678-17.233)		26203980	2412.0	
A	9 Crude Oil Range Organics (	9.956	(2.678-17.233)		26203980	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		32292732	NC	M
33 C19	10.427	10.418	0.009	517251	NC	M
A 64 C13-C28	10.551	(6.584-14.518)		15142777	1542.3	M
A 17 C10-C36	10.610	(3.987-17.233)		32255576	3285.3	EM
A 13 C9-C40	10.725	(2.678-18.772)		29440723	2911.9	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		29440723	NC	
A 58 C16-C24	10.765	(8.659-12.871)		7602585	774.3	M
61 icosane		10.952			ND	
A 6 C10-C40	11.333	(3.894-18.772)		29404854	2912.1	
$ 34 p-Terphenyl	11.923	11.921	0.002	207401	18.4	
35 n-Docosane	12.053	11.951	0.103	286252	NC	M
A 18 C12-C40	12.279	(5.786-18.772)		29321969	2913.0	
36 Tricosane	12.467	12.420	0.047	628205	NC	M
A 66 C13-C40	12.678	(6.584-18.772)		28298423	2853.2	
37 n-Tetracosane	12.877	12.871	0.006	827776	NC	M
A 2 C16-C36 ORO	12.946	(8.659-17.233)		18905764	2562.3	
38 C25	13.390	13.305	0.085	802092	NC	M
A 19 C16-C40	13.715	(8.659-18.772)		28904351	2887.8	
46 n-Hexacosane	13.727	13.724	0.003	495909	NC	M
A 20 C19-C36	13.826	(10.418-17.233)		21890549	2807.3	
A 55 C23-C32	14.188	(12.420-15.957)		14370442	3336.3	E
39 n-Octacosane	14.447	14.518	-0.071	913744	NC	M
65 C29	14.907	14.895	0.012	559140	NC	M
A 40 C24-C36	15.052	(12.871-17.233)		17402356	2777.0	M
A 7 Motor Oil	15.052	(12.871-17.233)		16918311	2699.7	
A 50 C25-C36	15.269	(13.305-17.233)		15361759	2592.0	
A 10 C22-C40	15.361	(11.951-18.772)		22604078	2550.2	
A 41 C23-C40	15.596	(12.420-18.772)		21380512	2469.9	
A 8 C24-C40	15.821	(12.871-18.772)		19881220	2375.9	
56 Dotriacontane	15.930	15.957	-0.027	610233	NC	M
A 51 C28-C40	16.645	(14.518-18.772)		13303169	1999.6	
A 63 C29-C40	16.833	(14.895-18.772)		11481830	1883.3	
42 n-Hexatriacontane	17.203	17.233	-0.030	6764733	NC	M
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

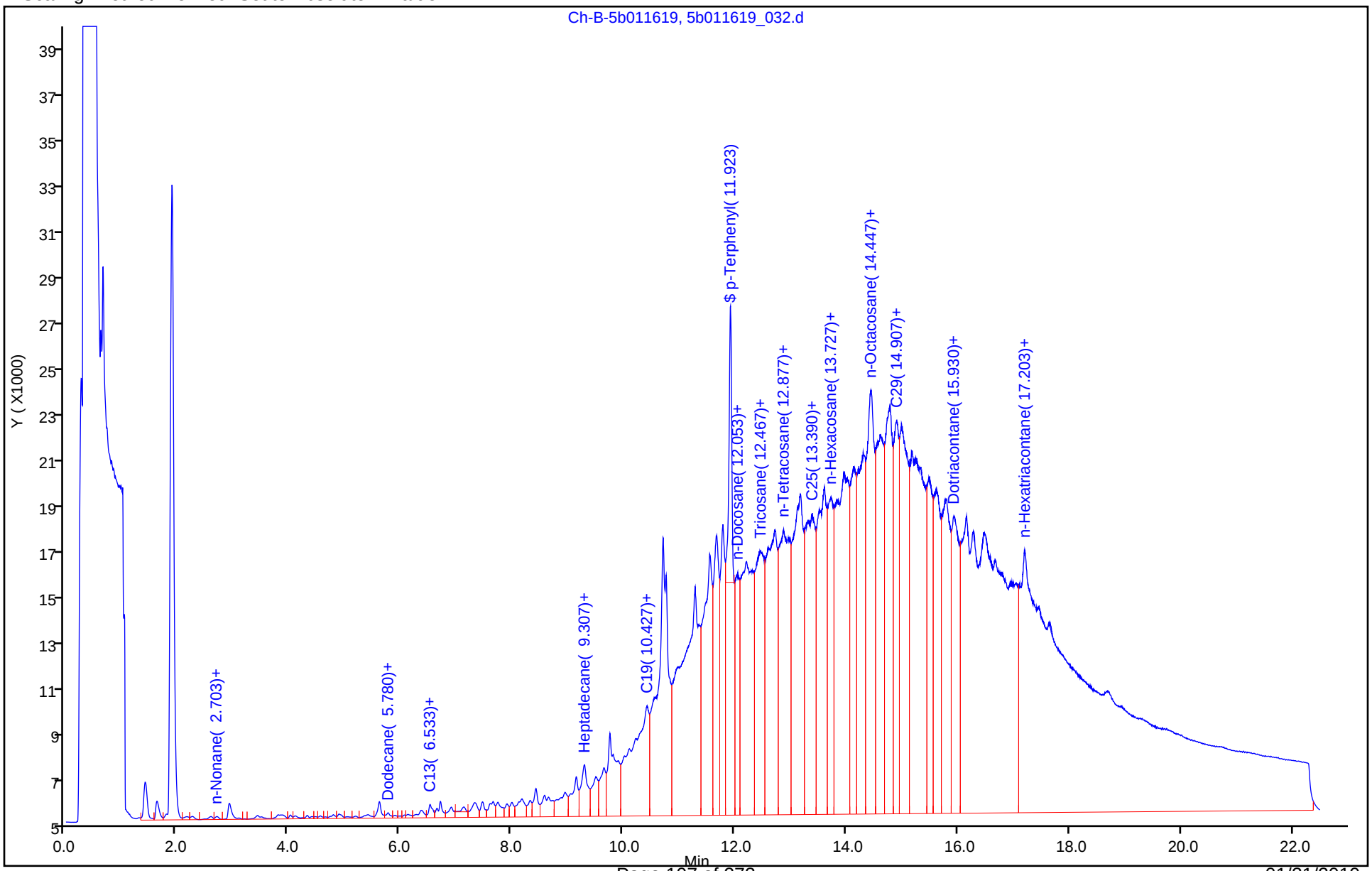
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_032.d

Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-15-C	Lab Sample ID:	720-90673-15	Worklist Smp#:	32
Client ID:	DG-AK7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_032.d				
Lims ID:	720-90673-E-15-C				
Client ID:	DG-AK7S-0.5-1				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 05:09:10	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 109 Name: 720-0056114-032				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:32:07	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:32:07

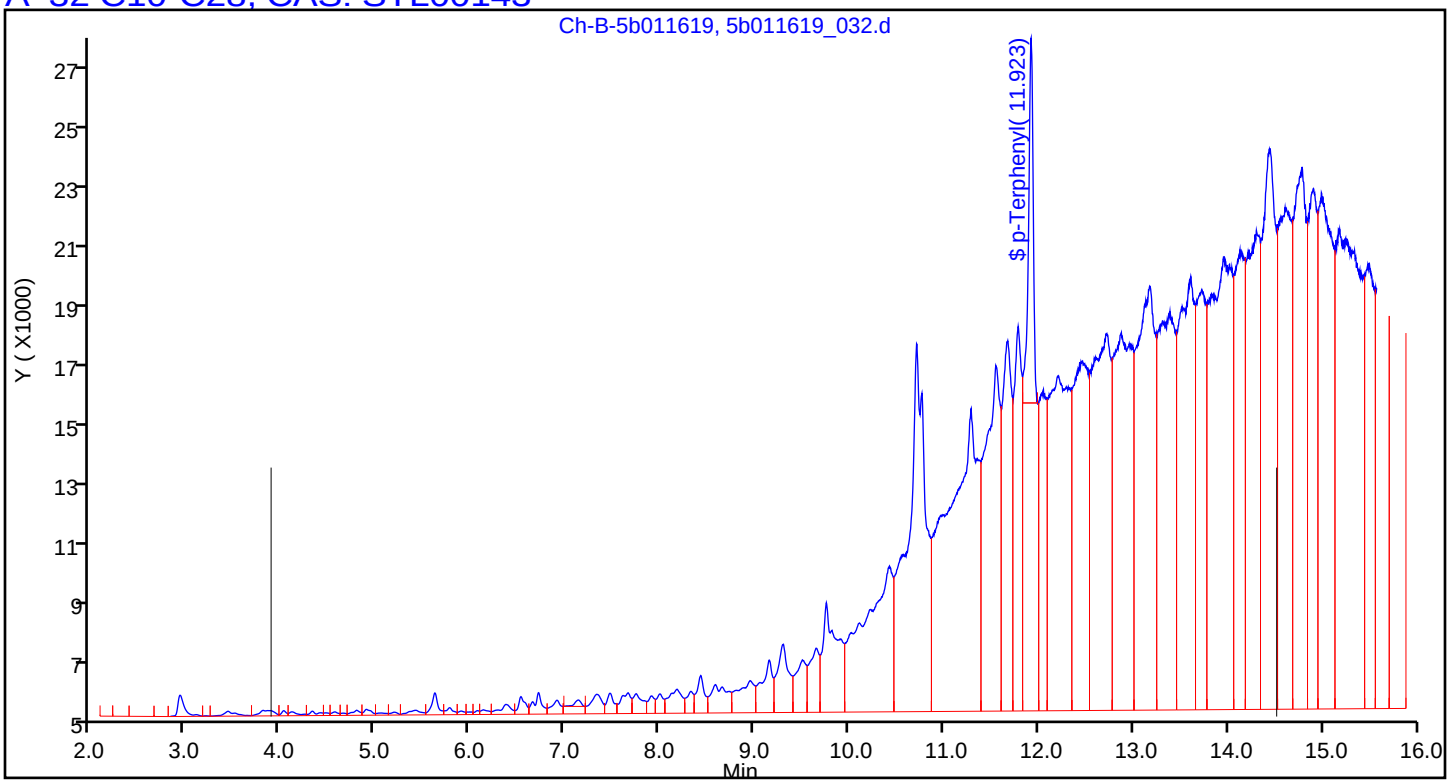
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	18.4	73.64

Report Date: 17-Jan-2019 12:32:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_032.d				
Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-15-C	Lab Sample ID:	720-90673-15		
Client ID:	DG-AK7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

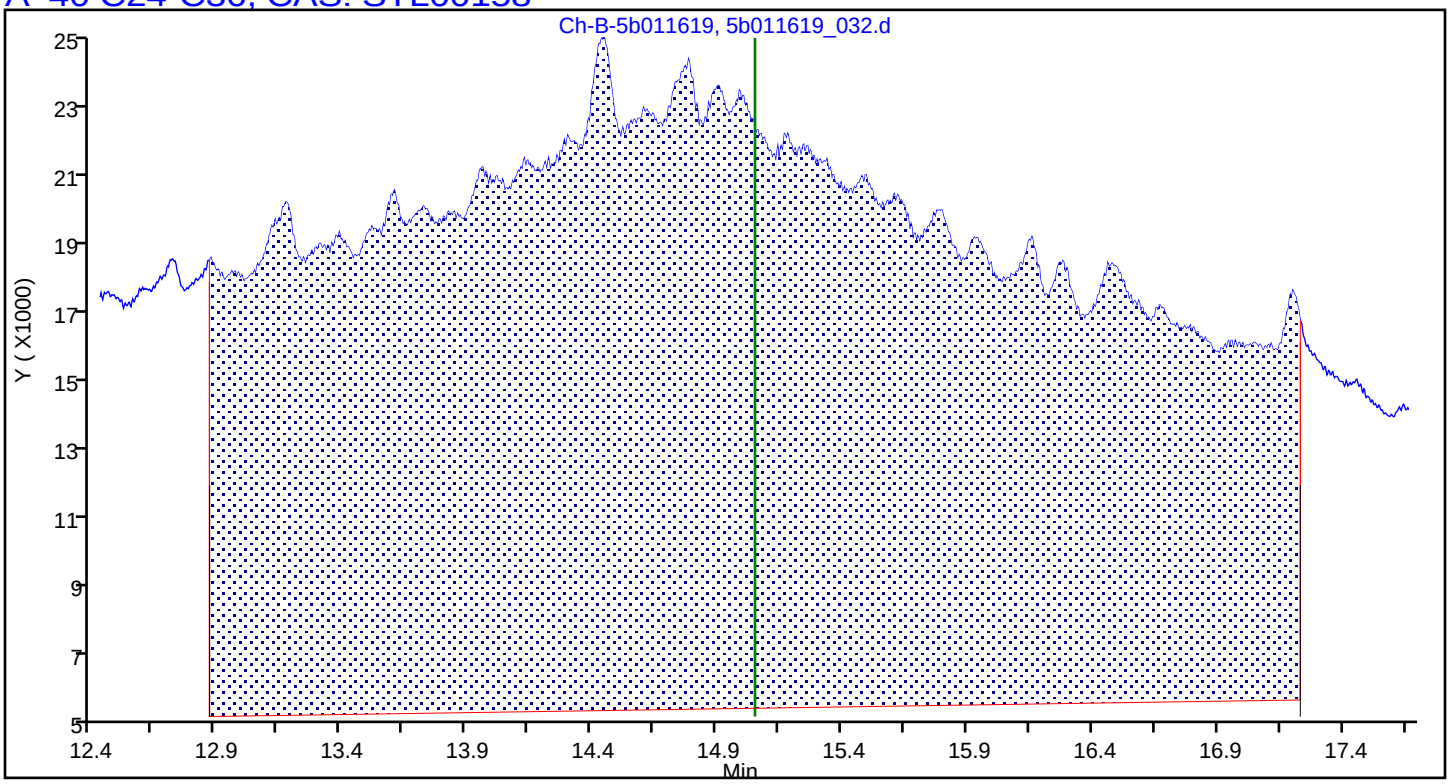


Report Date: 17-Jan-2019 12:32:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

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Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-15-C	Lab Sample ID:	720-90673-15		
Client ID:	DG-AK7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

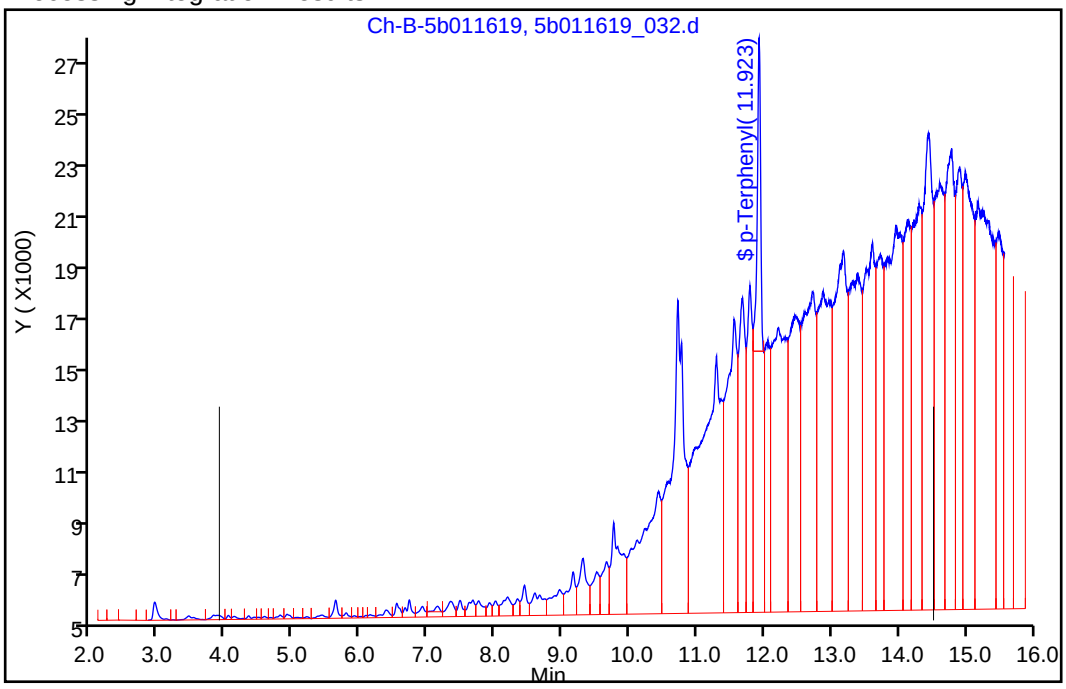
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Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-15-C	Lab Sample ID:	720-90673-15		
Client ID:	DG-AK7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.206, CAS: STL00143

Signal: 1

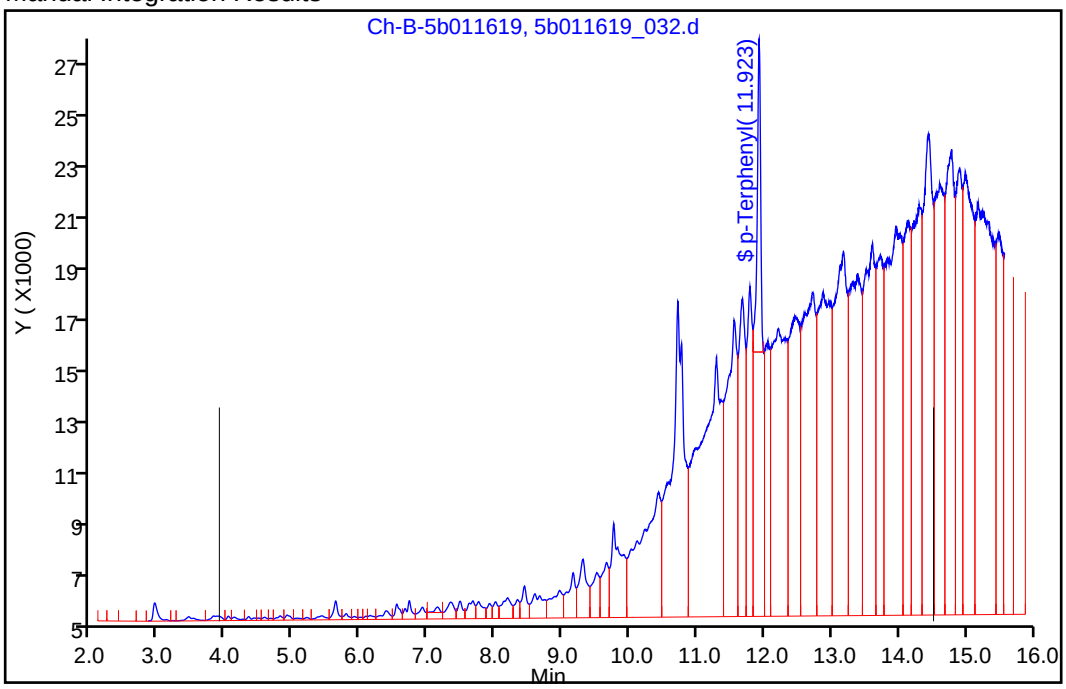
Processing Integration Results

RT: 9.21
Response: 14741336
Amount: 1501.4272



Manual Integration Results

RT: 9.21
Response: 15240501
Amount: 1552.2679



Reviewer: luj, 17-Jan-2019 12:31:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

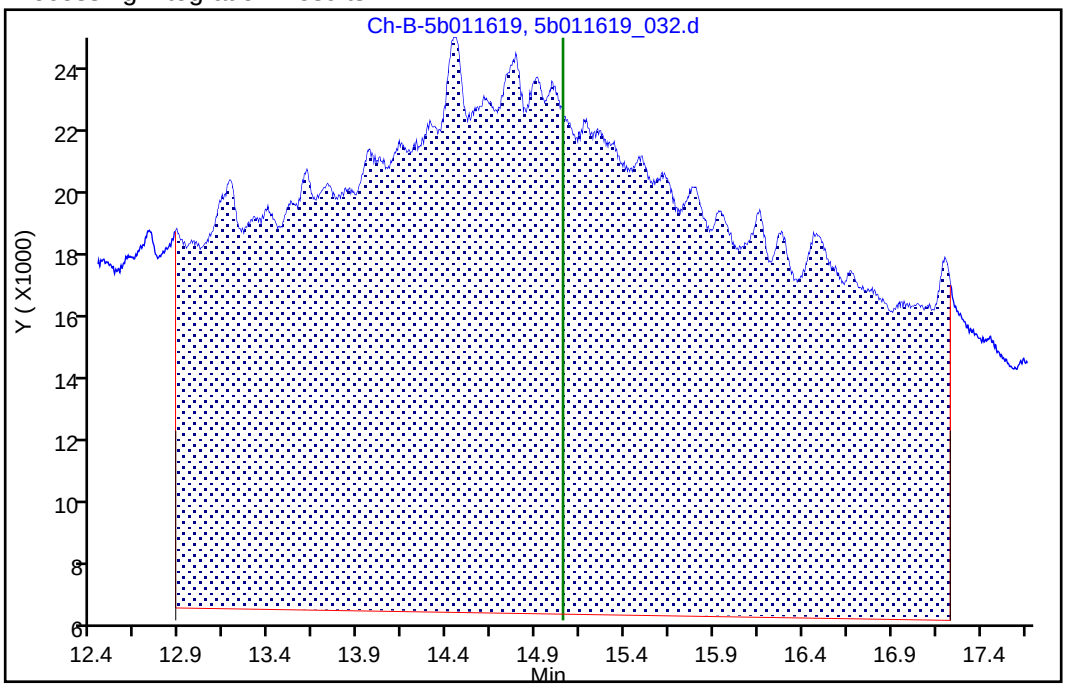
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_032.d				
Injection Date:	17-Jan-2019 05:09:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-15-C	Lab Sample ID:	720-90673-15		
Client ID:	DG-AK7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.052, CAS: STL00158

Signal: 1

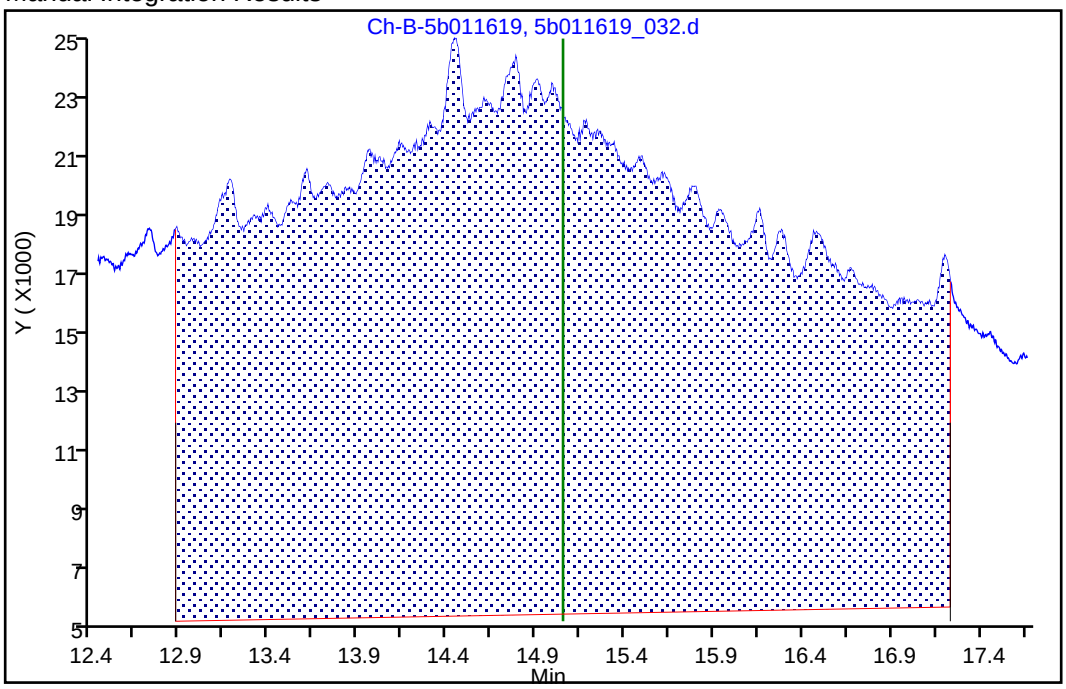
Processing Integration Results

RT: 15.05
Response: 16918311
Amount: 2699.7193



Manual Integration Results

RT: 15.05
Response: 17402356
Amount: 2776.9602



Reviewer: luj, 17-Jan-2019 12:32:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_014.d
Lims ID: 720-90673-E-16-D
Client ID: DG-AK7S-3.5-4
Sample Type: Client
Inject. Date: 16-Jan-2019 20:20:43 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 103 Name: 720-0056114-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:04:31 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:04:31

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.677	2.678	-0.001	1043	NC	
	23 n-Decane	3.901	3.894	0.007	1406	NC	
A	1 C9-C13	4.631	(2.678-6.584)		65507	5.17	
A	21 Stoddard Solvent	4.631	(2.678-6.584)		65507	5.76	
A	57 C10-C12	4.840	(3.894-5.786)		32571	3.32	
	24 Dodecane	5.779	5.786	-0.007	5180	NC	
A	3 C9 - C17	5.982	(2.678-9.286)		303419	21.5	
A	47 C9 - C18	6.271	(2.678-9.863)		391929	34.9	
A	60 C10-C16	6.276	(3.894-8.659)		204136	16.4	
A	15 Kerosene	6.548	(2.678-10.418)		463467	41.2	
A	25 C9-C19	6.548	(2.678-10.418)		463467	32.7	
	26 C13	6.577	6.584	-0.007	8863	NC	
$	27 n-Decanoic Acid (Surr)		7.194			ND	U
A	59 C12-C16	7.222	(5.786-8.659)		176745	18.0	
A	62 C10-C20	7.423	(3.894-10.952)		706850	72.0	
A	28 C9-C24	7.775	(2.678-12.871)		1774785	180.8	
A	29 C9-C25	7.992	(2.678-13.305)		1997737	203.5	
A	54 C10-C23	8.157	(3.894-12.420)		1530592	155.9	
A	4 C10-C24	8.382	(3.894-12.871)		1762959	179.6	
A	16 C10-C25	8.599	(3.894-13.305)		1985911	202.3	
	45 Hexadecane	8.655	8.659	-0.004	8241	NC	
A	14 C10-C26	8.809	(3.894-13.724)		2216131	225.7	
A	67 C12-C22	8.868	(5.786-11.951)		1222307	124.5	
A	5 Diesel	9.206	(3.894-14.518)		2736109	278.7	
A	32 C10-C28	9.206	(3.894-14.518)		2736109	278.7	
A	12 Unknown Hydrocarbons	9.206	(3.894-14.518)		2736109	NC	
A	30 C13-C22	9.267	(6.584-11.951)		1204880	122.7	
	44 Heptadecane	9.285	9.286	-0.001	36849	NC	
A	31 C12-C24	9.328	(5.786-12.871)		1735568	176.8	
	49 n-Octadecane	9.860	9.863	-0.003	25276	NC	
A	52 Mineral oil	9.956	(2.678-17.233)		5765231	530.7	
A	9 Crude Oil Range Organics (	9.980	(2.827-17.133)		5687460	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		5253932	NC	
33 C19	10.421	10.418	0.003	55297	NC	
A 64 C13-C28	10.551	(6.584-14.518)		2691291	274.1	
A 17 C10-C36	10.514	(3.894-17.133)		5242106	533.9	
A 13 C9-C40	10.725	(2.678-18.772)		6501166	643.0	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		6501166	NC	
A 58 C16-C24	10.765	(8.659-12.871)		1567064	159.6	
61 icosane	10.961	10.952	0.009	97503	NC	
A 6 C10-C40	11.333	(3.894-18.772)		6486295	642.4	
$ 34 p-Terphenyl	11.920	11.921	-0.001	249517	22.1	
35 n-Docosane		11.951			ND	
A 18 C12-C40	12.279	(5.786-18.772)		6439141	639.7	
36 Tricosane	12.418	12.420	-0.002	70593	NC	
A 66 C13-C40	12.678	(6.584-18.772)		6008197	605.8	
37 n-Tetracosane	12.868	12.871	-0.003	77832	NC	
A 2 C16-C36 ORO	12.946	(8.659-17.233)		4048243	548.7	
38 C25	13.304	13.305	-0.001	77641	NC	
A 19 C16-C40	13.715	(8.659-18.772)		6214766	620.9	
46 n-Hexacosane	13.719	13.724	-0.005	62363	NC	
A 20 C19-C36	13.826	(10.418-17.233)		4412006	565.8	
A 55 C23-C32	14.188	(12.420-15.957)		2472772	574.1	
39 n-Octacosane	14.517	14.518	-0.001	65520	NC	
65 C29	14.894	14.895	-0.001	233628	NC	
A 40 C24-C36	15.052	(12.871-17.233)		3431089	547.5	M
A 7 Motor Oil	15.052	(12.871-17.233)		3478904	555.1	
A 50 C25-C36	15.269	(13.305-17.233)		3278059	553.1	
A 10 C22-C40	15.361	(11.951-18.772)		4259720	480.6	
A 41 C23-C40	15.596	(12.420-18.772)		4309534	497.9	
A 8 C24-C40	15.821	(12.871-18.772)		4099589	489.9	
56 Dotriacontane	15.882	15.957	-0.075	193517	NC	
A 51 C28-C40	16.645	(14.518-18.772)		3185823	478.9	
A 63 C29-C40	16.833	(14.895-18.772)		2893389	474.6	
42 n-Hexatriacontane	17.244	17.233	0.011	1264094	NC	
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

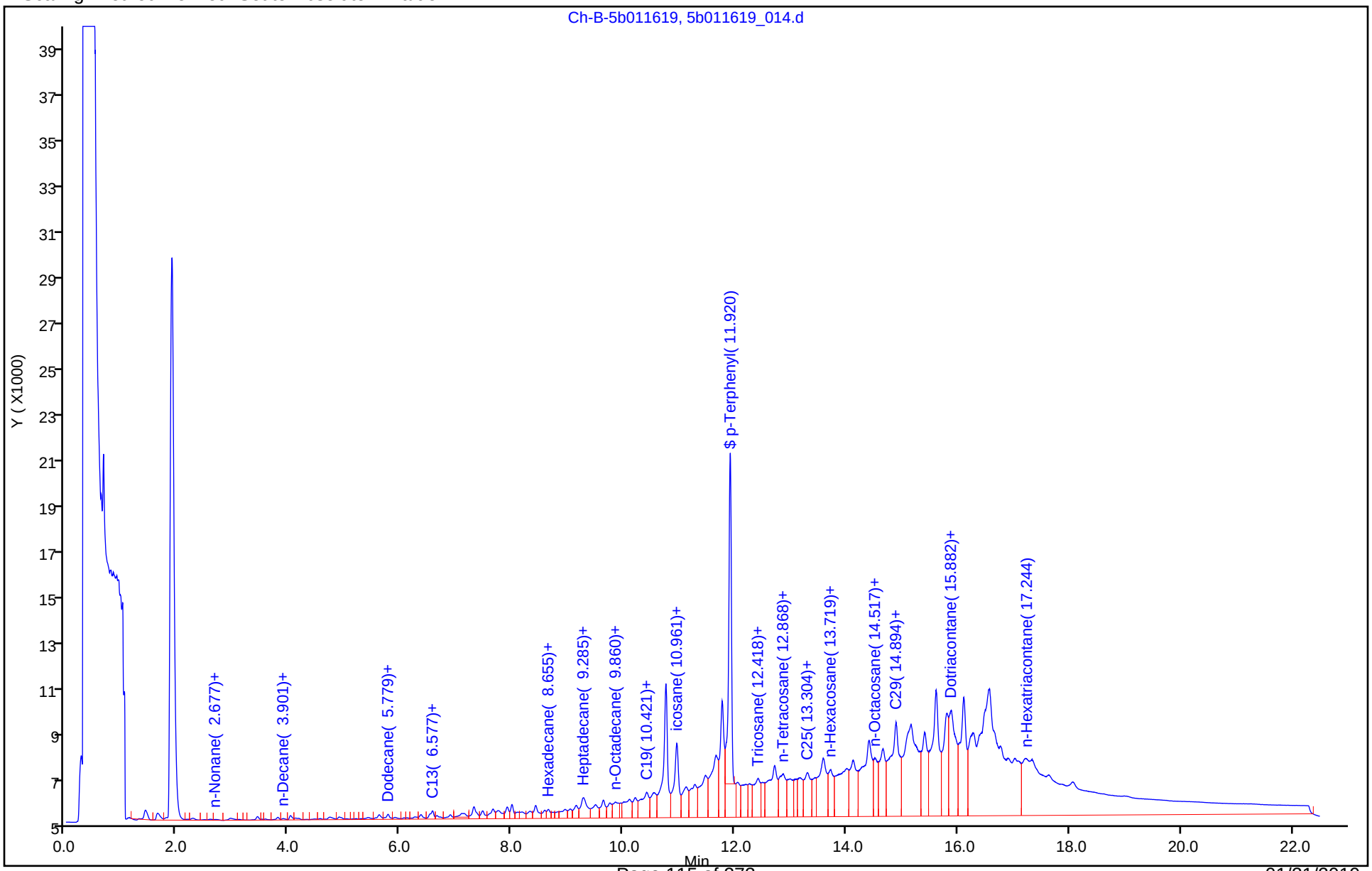
Report Date: 17-Jan-2019 12:04:32 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_014.d

Injection Date:	16-Jan-2019 20:20:43	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-16-D	Lab Sample ID:	720-90673-16	Worklist Smp#:	14
Client ID:	DG-AK7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_014.d				
Lims ID:	720-90673-E-16-D				
Client ID:	DG-AK7S-3.5-4				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 20:20:43	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 103 Name: 720-0056114-014				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:04:31	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:04:31

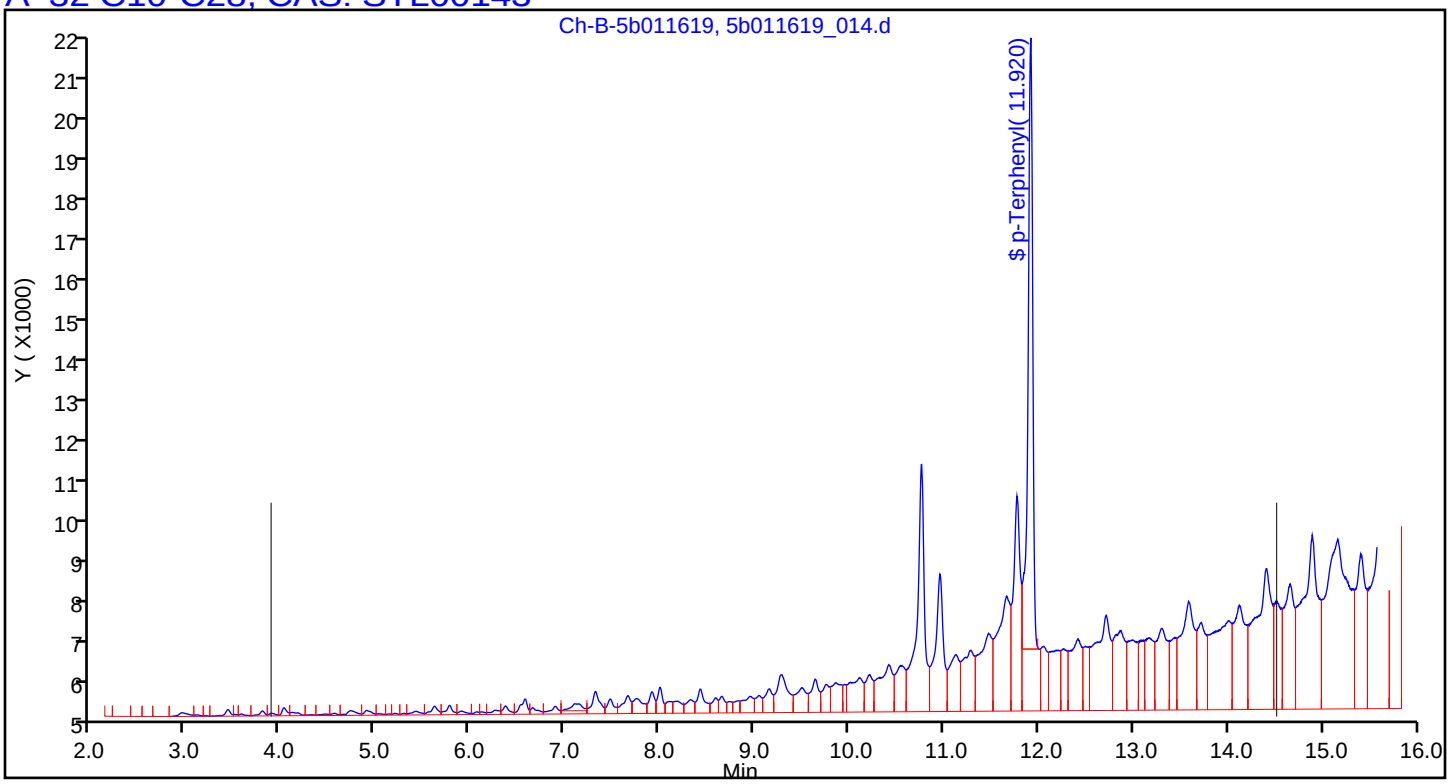
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.1	88.59

Report Date: 17-Jan-2019 12:04:32 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_014.d				
Injection Date:	16-Jan-2019 20:20:43	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-16-D	Lab Sample ID:	720-90673-16		
Client ID:	DG-AK7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

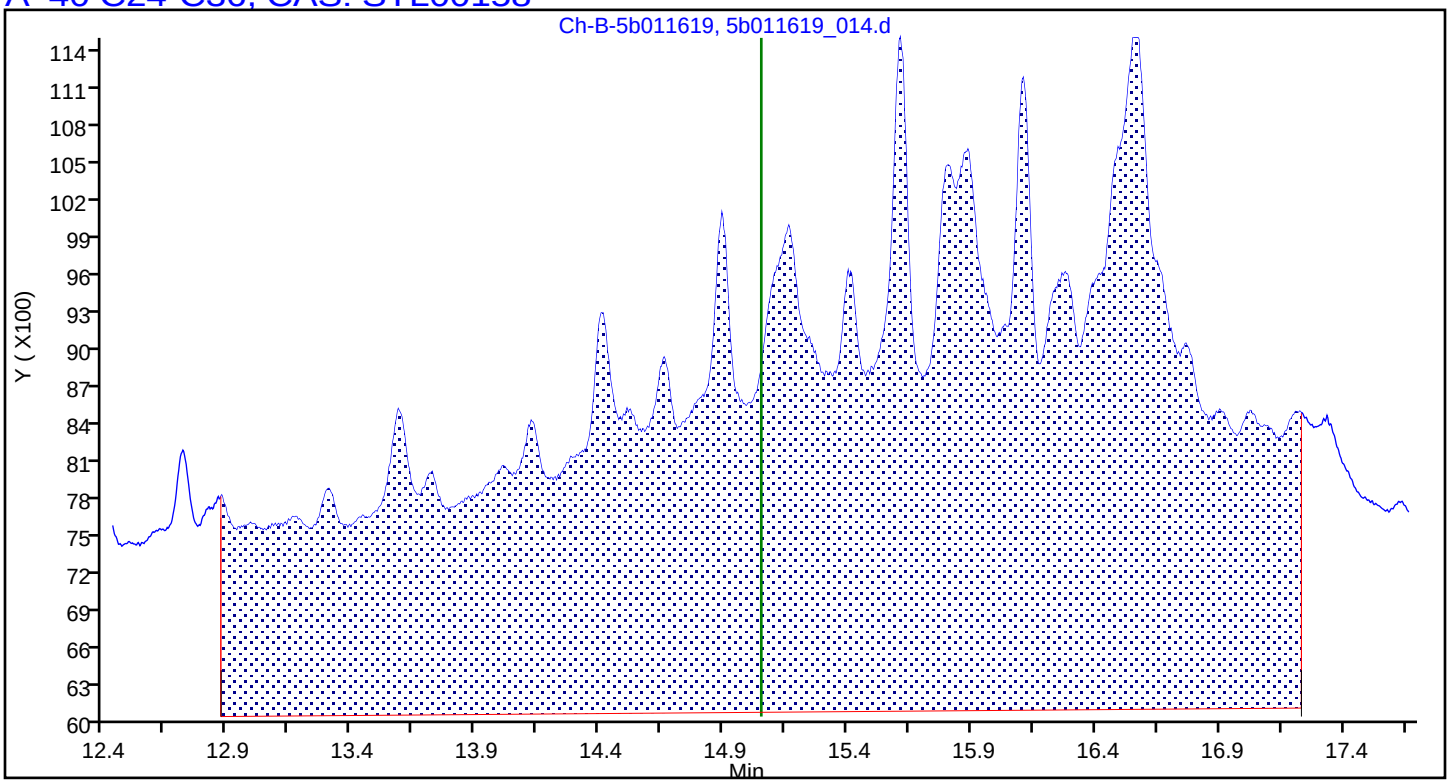


Report Date: 17-Jan-2019 12:04:33 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_014.d				
Injection Date:	16-Jan-2019 20:20:43	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-16-D	Lab Sample ID:	720-90673-16		
Client ID:	DG-AK7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

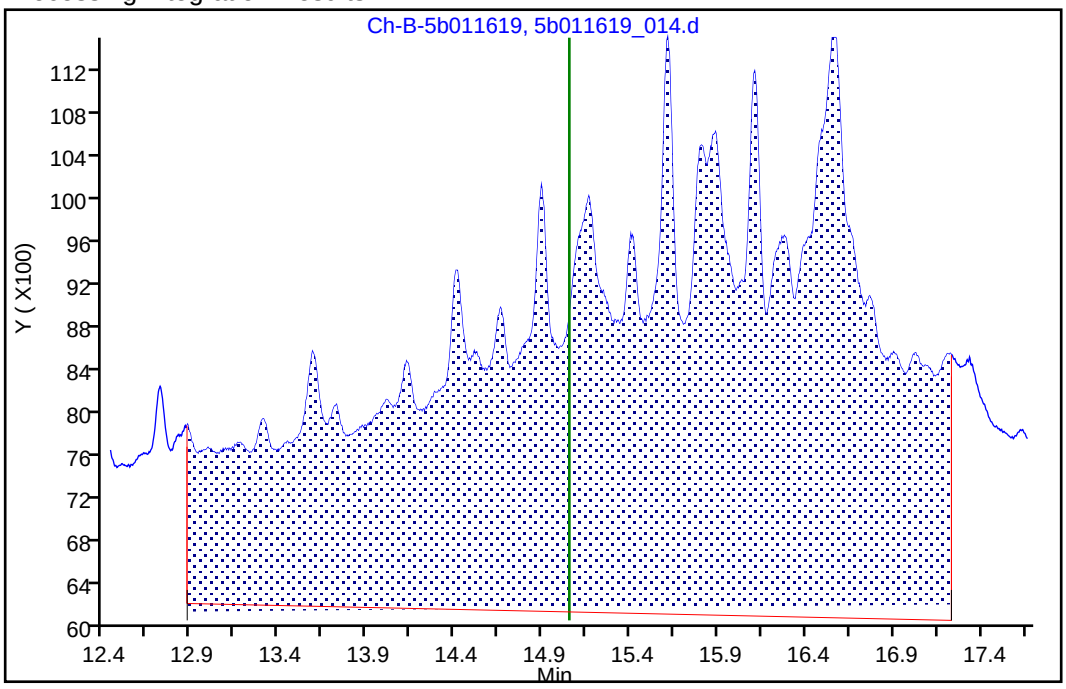
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Injection Date:	16-Jan-2019 20:20:43	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-16-D	Lab Sample ID:	720-90673-16		
Client ID:	DG-AK7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.052, CAS: STL00158

Signal: 1

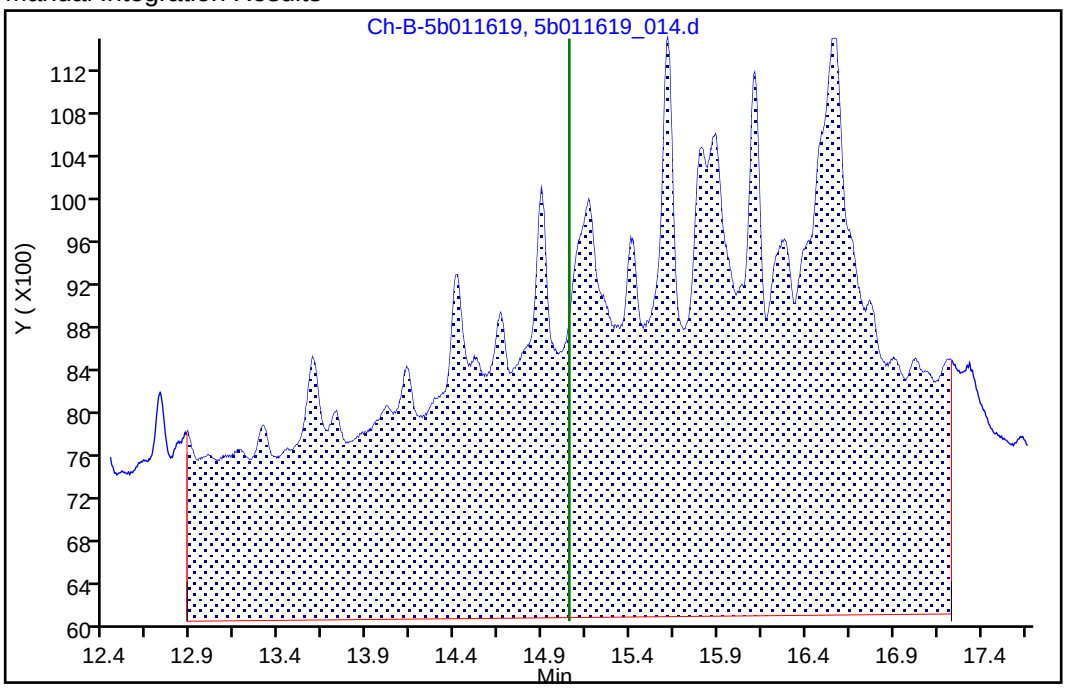
Processing Integration Results

RT: 15.05
Response: 3478904
Amount: 555.1420



Manual Integration Results

RT: 15.05
Response: 3431089
Amount: 547.5119



Reviewer: luj, 17-Jan-2019 12:04:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_015.d
Lims ID: 720-90673-E-17-D
Client ID: DUP-48
Sample Type: Client
Inject. Date: 16-Jan-2019 20:49:58 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 104 Name: 720-0056114-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m
Limit Group: DRO
Last Update: 17-Jan-2019 12:05:11 Calib Date: 16-Jan-2019 08:54:22
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 12:05:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.675	2.678	-0.003	773	NC	
23 n-Decane	3.898	3.894	0.004	816	NC	
A 1 C9-C13	4.631	(2.678-6.584)		34283	2.71	M
A 21 Stoddard Solvent	4.631	(2.678-6.584)		34283	3.02	M
A 57 C10-C12	4.840	(3.894-5.786)		18260	1.86	M
24 Dodecane	5.777	5.786	-0.009	1793	NC	M
A 3 C9 - C17	5.982	(2.678-9.286)		119517	8.46	M
A 47 C9 - C18	6.271	(2.678-9.863)		172159	15.3	M
A 60 C10-C16	6.276	(3.894-8.659)		84747	6.79	M
A 15 Kerosene	6.548	(2.678-10.418)		216782	19.3	M
A 25 C9-C19	6.548	(2.678-10.418)		216782	15.3	M
26 C13	6.533	6.584	-0.051	2450	NC	M
$ 27 n-Decanoic Acid (Surr)		7.194			ND	MU
A 59 C12-C16	7.222	(5.786-8.659)		68280	6.95	M
A 62 C10-C20	7.423	(3.894-10.952)		283780	28.9	M
A 28 C9-C24	7.775	(2.678-12.871)		755699	77.0	M
A 29 C9-C25	7.992	(2.678-13.305)		832730	84.8	M
A 54 C10-C23	8.157	(3.894-12.420)		643199	65.5	M
A 4 C10-C24	8.382	(3.894-12.871)		747012	76.1	M
A 16 C10-C25	8.599	(3.894-13.305)		824043	83.9	M
45 Hexadecane	8.660	8.659	0.001	3322	NC	M
A 14 C10-C26	8.809	(3.894-13.724)		999455	101.8	M
A 67 C12-C22	8.868	(5.786-11.951)		530668	54.0	M
A 5 Diesel	9.206	(3.894-14.518)		1333649	135.8	M
A 32 C10-C28	9.206	(3.894-14.518)		1333649	135.8	M
A 12 Unknown Hydrocarbons	9.206	(3.894-14.518)		1333649	NC	M
A 30 C13-C22	9.267	(6.584-11.951)		523989	53.4	M
44 Heptadecane	9.307	9.286	0.021	16418	NC	M
A 31 C12-C24	9.328	(5.786-12.871)		730545	74.4	M
49 n-Octadecane	9.860	9.863	-0.003	6049	NC	M
A 52 Mineral oil	9.956	(2.678-17.233)		3870534	356.3	
A 9 Crude Oil Range Organics (	10.030	(2.827-17.233)		3869976	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.956	(2.678-17.233)		4487453	NC	M
33 C19	10.420	10.418	0.002	12636	NC	M
A 64 C13-C28	10.551	(6.584-14.518)		1310503	133.5	M
A 17 C10-C36	10.564	(3.894-17.233)		4478766	456.2	M
A 13 C9-C40	10.725	(2.678-18.772)		4572537	452.3	
A 68 Crude Oil Range Organics (	10.725	(2.678-18.772)		4572537	NC	
A 58 C16-C24	10.765	(8.659-12.871)		662265	67.5	M
61 icosane	10.960	10.952	0.008	29566	NC	M
A 6 C10-C40	11.333	(3.894-18.772)		4561752	451.8	
$ 34 p-Terphenyl	11.920	11.921	-0.001	277685	24.6	
35 n-Docosane		11.951			ND	
A 18 C12-C40	12.279	(5.786-18.772)		4531972	450.2	
36 Tricosane	12.413	12.420	-0.007	33938	NC	M
A 66 C13-C40	12.678	(6.584-18.772)		4329547	436.5	
37 n-Tetracosane	12.867	12.871	-0.004	38879	NC	M
A 2 C16-C36 ORO	12.946	(8.659-17.233)		3148415	426.7	
38 C25	13.307	13.305	0.002	43775	NC	M
A 19 C16-C40	13.715	(8.659-18.772)		4424197	442.0	
46 n-Hexacosane	13.720	13.724	-0.004	42048	NC	M
A 20 C19-C36	13.826	(10.418-17.233)		2816083	361.1	
A 55 C23-C32	14.188	(12.420-15.957)		1730594	401.8	
39 n-Octacosane	14.513	14.518	-0.005	49376	NC	M
65 C29	14.893	14.895	-0.002	159964	NC	M
A 40 C24-C36	15.052	(12.871-17.233)		2750848	439.0	
A 7 Motor Oil	15.052	(12.871-17.233)		2750848	439.0	
A 50 C25-C36	15.269	(13.305-17.233)		2649931	447.1	
A 10 C22-C40	15.361	(11.951-18.772)		3280875	370.1	
A 41 C23-C40	15.596	(12.420-18.772)		3463347	400.1	
A 8 C24-C40	15.821	(12.871-18.772)		3371715	402.9	
56 Dotriacontane	15.880	15.957	-0.077	138433	NC	M
A 51 C28-C40	16.645	(14.518-18.772)		2837313	426.5	
A 63 C29-C40	16.833	(14.895-18.772)		2624935	430.5	
42 n-Hexatriacontane	17.180	17.233	-0.053	1096855	NC	M
43 C40		18.772			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

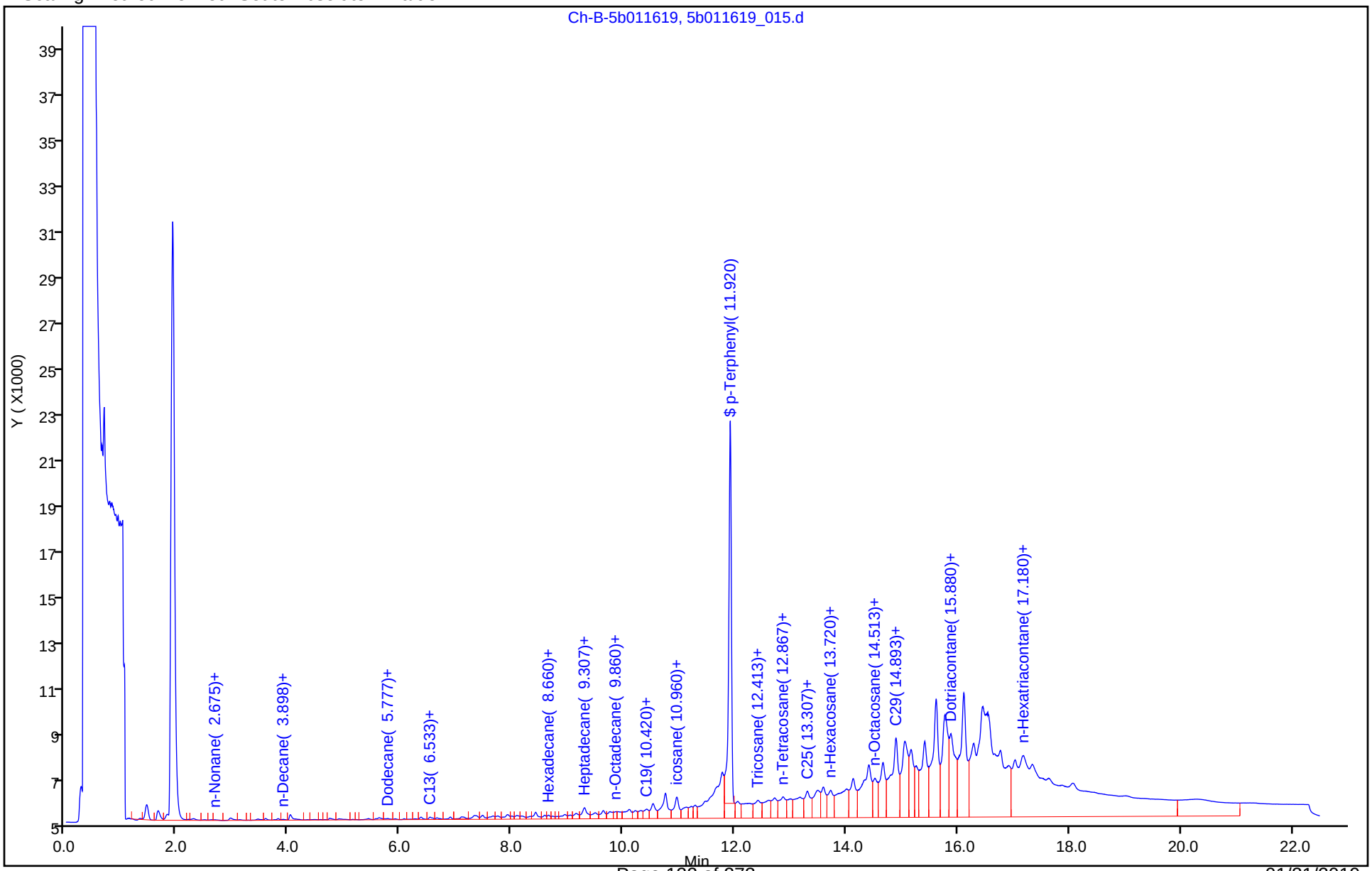
Report Date: 17-Jan-2019 12:05:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_015.d

Injection Date:	16-Jan-2019 20:49:58	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-17-D	Lab Sample ID:	720-90673-17	Worklist Smp#:	15
Client ID:	DUP-48				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_015.d				
Lims ID:	720-90673-E-17-D				
Client ID:	DUP-48				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 20:49:58	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 104 Name: 720-0056114-015				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 12:05:11	Calib Date:	16-Jan-2019 08:54:22		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 12:05:11

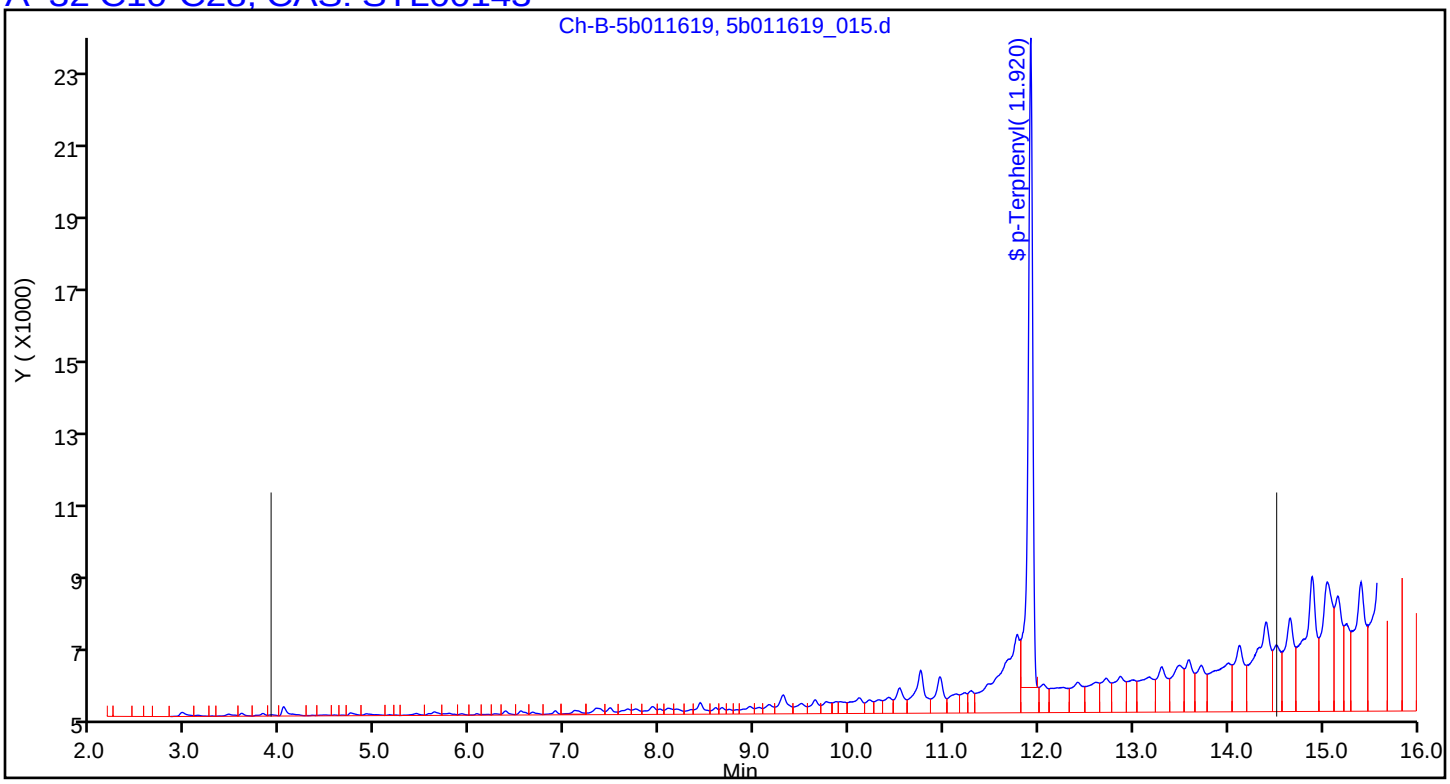
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.6	98.59

Report Date: 17-Jan-2019 12:05:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_015.d				
Injection Date:	16-Jan-2019 20:49:58	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-17-D	Lab Sample ID:	720-90673-17		
Client ID:	DUP-48				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

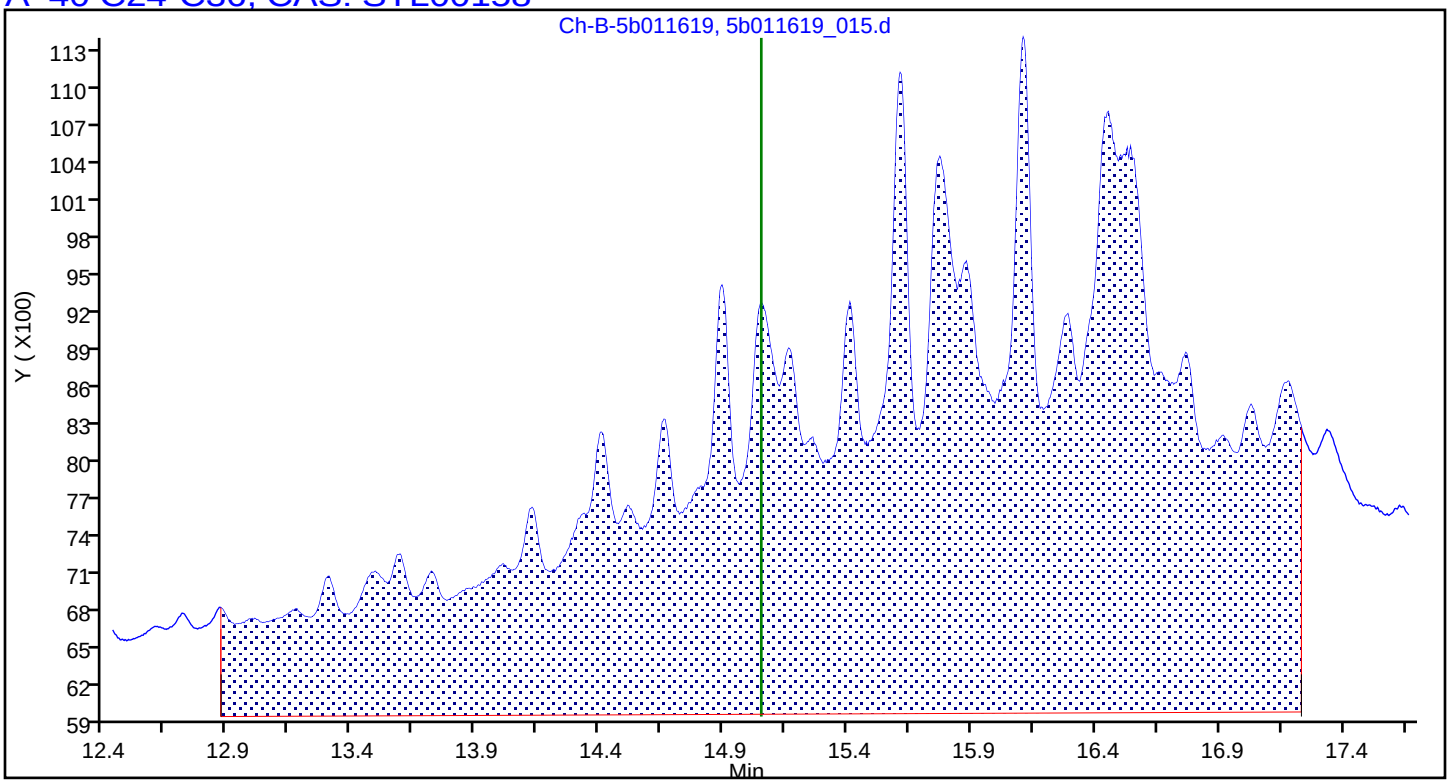


Report Date: 17-Jan-2019 12:05:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_015.d				
Injection Date:	16-Jan-2019 20:49:58	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-17-D	Lab Sample ID:	720-90673-17		
Client ID:	DUP-48				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

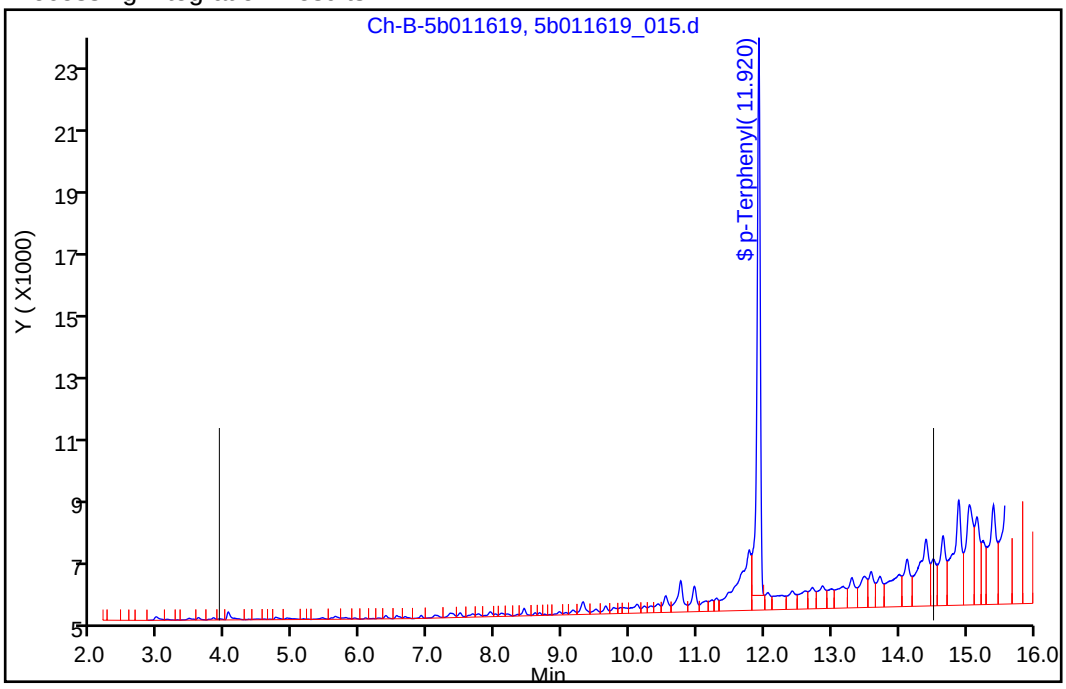
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190116-56114.b\5b011619_015.d				
Injection Date:	16-Jan-2019 20:49:58	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-17-D	Lab Sample ID:	720-90673-17		
Client ID:	DUP-48				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.206, CAS: STL00143

Signal: 1

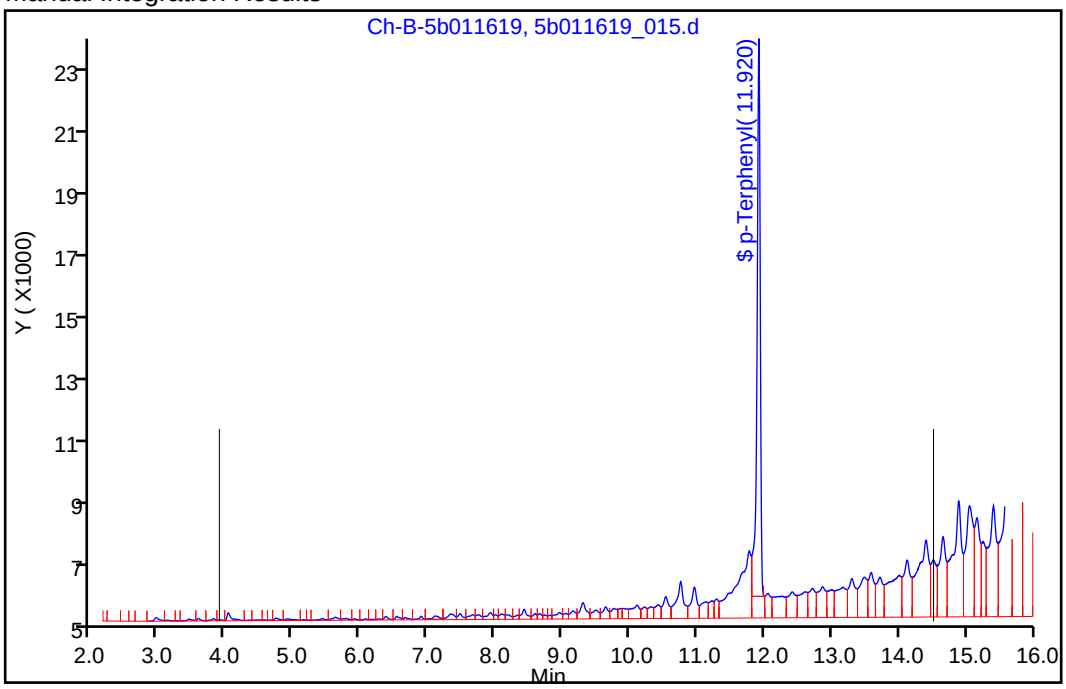
Processing Integration Results

RT: 9.21
Response: 935842
Amount: 95.316910



Manual Integration Results

RT: 9.21
Response: 1333649
Amount: 135.8341



Reviewer: luj, 17-Jan-2019 12:04:59

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000031.D
Lims ID: 720-90673-E-18-D
Client ID: DG-AM7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 03:34:39 ALS Bottle#: 81 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056116-031
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:27:49 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:27:48

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.436	1.353	0.083	78333	NC	M
	23 n-Decane	2.209	2.210	-0.001	397417	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		20568256	8.64	M
A	1 C9-C13	2.811	(1.353-4.270)		20568256	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		10311606	5.21	M
	24 Dodecane	3.657	3.658	-0.001	681867	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		65784029	22.9	M
A	60 C10-C16	4.030	(2.210-5.850)		47037464	18.4	M
A	47 C9 - C18	4.060	(1.353-6.766)		98312900	43.3	M
	26 C13	4.270	4.270	0.000	880247	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		138420023	47.9	M
A	15 Kerosene	4.272	(1.353-7.191)		138420023	60.9	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		37407725	18.9	M
A	61 C10-C20	4.904	(2.210-7.598)		235400373	119.0	M
A	28 C9-C24	5.209	(1.353-9.066)		711667531	359.9	M
A	29 C9-C25	5.376	(1.353-9.398)		852341217	431.0	M
A	54 C10-C23	5.465	(2.210-8.720)		574948094	290.7	M
A	4 C10-C24	5.638	(2.210-9.066)		709062729	358.6	M
A	16 C10-C25	5.804	(2.210-9.398)		849736415	429.7	M
	45 Hexadecane	5.851	5.850	0.001	3812539	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		972321173	491.7	M
A	67 C12-C22	6.009	(3.658-8.361)		440493169	222.8	M
A	32 C10-C28	6.269	(2.210-10.328)		1333491200	674.3	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		1333491200	NC	M
A	5 Diesel	6.269	(2.210-10.328)		1333491200	674.3	M
A	30 C13-C22	6.315	(4.270-8.361)		432159454	218.5	M
	44 Heptadecane	6.362	6.321	0.042	14332087	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		699432990	353.7	M
	49 n-Octadecane	6.767	6.766	0.001	11075695	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		2729561331	1186.0	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		2729561331	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		2729561331	NC	M
33 C19	7.193	7.191	0.002	26640132	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		1315527746	665.3	M
A 17 C10-C36	7.312	(2.210-12.413)		2726956529	1379.0	M
A 13 C9-C40	7.373	(1.353-13.393)		4286559022	2418.2	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		4286559022	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		662025265	334.8	M
62 icosane	7.602	7.598	0.004	17910726	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		4283954220	2419.5	M
$ 34 p-Terphenyl	8.053	8.057	-0.004	28738583	12.2	
35 n-Docosane	8.367	8.361	0.006	23551418	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		4274324481	2422.9	M
36 Tricosane	8.722	8.720	0.002	34798188	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		4265990766	2420.3	M
37 n-Tetracosane	9.070	9.066	0.004	37612218	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		2679919065	1979.2	M
38 C25	9.406	9.398	0.008	51191822	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		4236916756	2408.7	M
46 n-Hexacosane	9.762	9.719	0.043	77692777	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		2006104442	1246.1	
A 55 C23-C32	10.077	(8.720-11.433)		1573093631	1773.4	M
39 n-Octacosane	10.373	10.328	0.045	86617756	NC	M
65 C29	10.602	10.618	-0.016	124998835	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		1727882558	1493.7	
A 40 C24-C36	10.740	(9.066-12.413)		2015884762	1742.6	M
A 10 C22-C40	10.877	(8.361-13.393)		2301134731	1421.4	
A 50 C25-C36	10.906	(9.398-12.413)		1523668731	1407.5	
A 41 C23-C40	11.057	(8.720-13.393)		2219317171	1397.5	
A 8 C24-C40	11.229	(9.066-13.393)		2197417780	1413.8	
56 Dotriacontane	11.416	11.433	-0.017	148118132	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		1705637485	1371.2	
A 63 C29-C40	12.006	(10.618-13.393)		1544814309	1352.8	
42 n-Hexatriacontane	12.451	12.413	0.038	57328783	NC	M
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

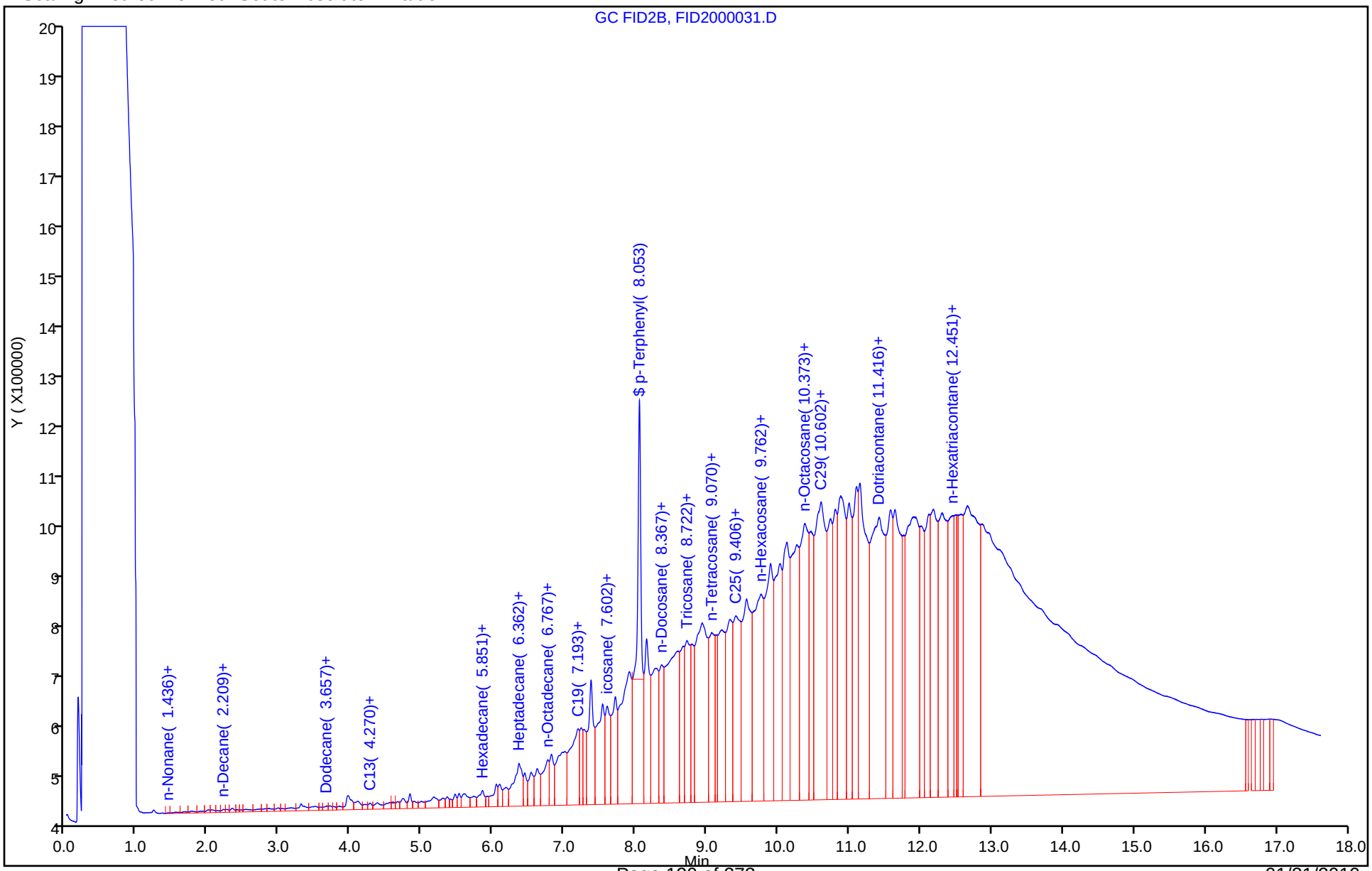
Report Date: 17-Jan-2019 14:27:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000031.D

Injection Date:	17-Jan-2019 03:34:39	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-18-D	Lab Sample ID:	720-90673-18	Worklist Smp#:	31
Client ID:	DG-AM7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	81
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000031.D
Lims ID: 720-90673-E-18-D
Client ID: DG-AM7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 03:34:39 ALS Bottle#: 81 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056116-031
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:27:49 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:27:48

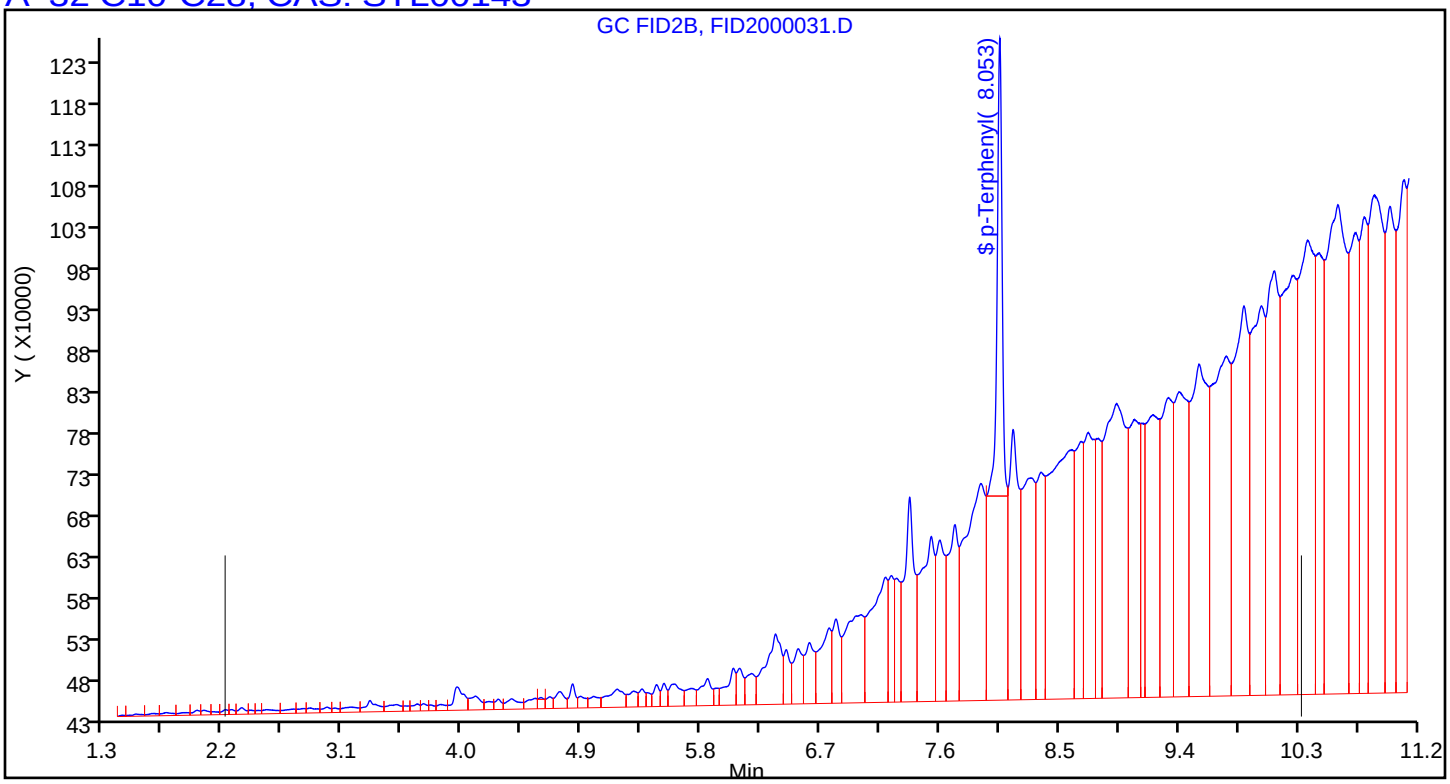
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	12.2	48.75

Report Date: 17-Jan-2019 14:27:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000031.D				
Injection Date:	17-Jan-2019 03:34:39	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-18-D	Lab Sample ID:	720-90673-18		
Client ID:	DG-AM7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	81	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

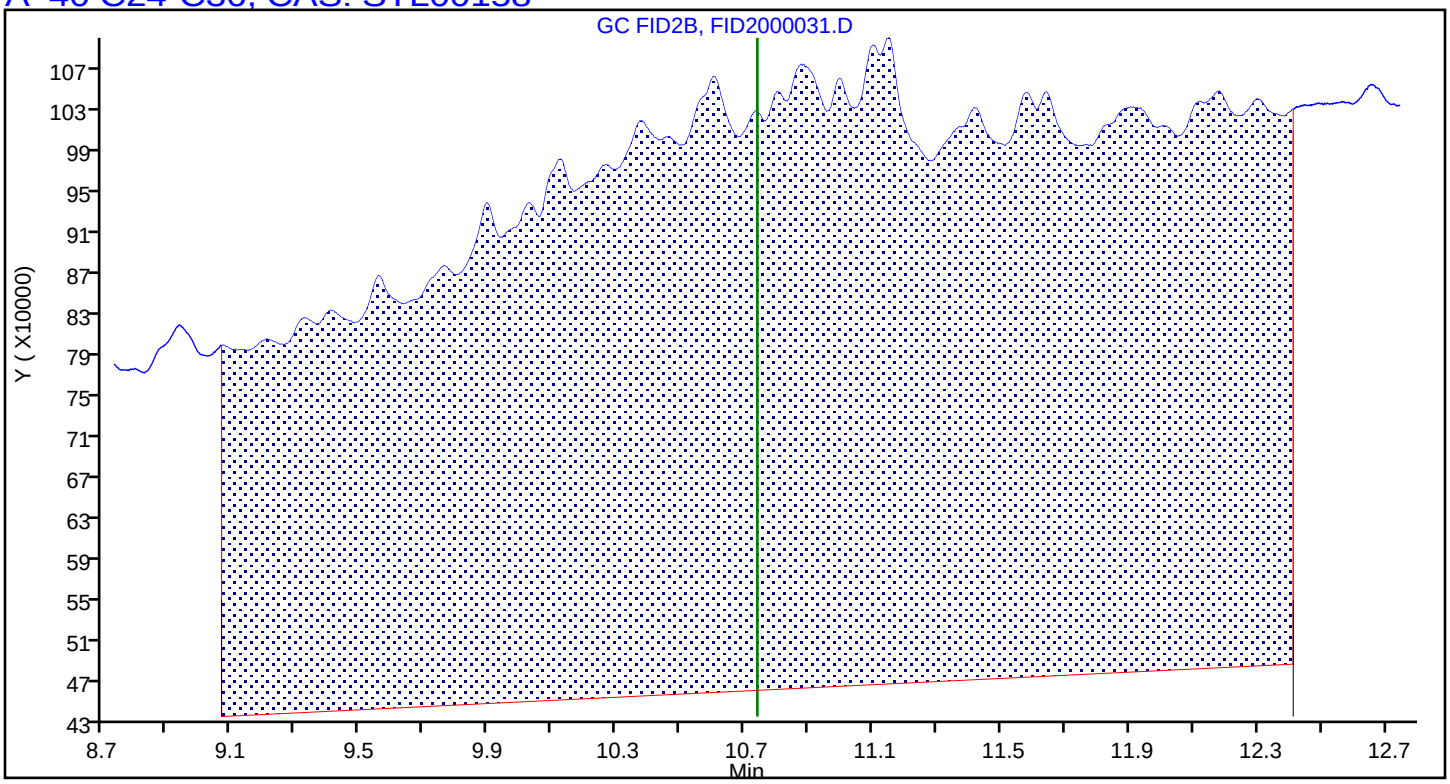


Report Date: 17-Jan-2019 14:27:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000031.D				
Injection Date:	17-Jan-2019 03:34:39	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-18-D	Lab Sample ID:	720-90673-18		
Client ID:	DG-AM7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	81	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

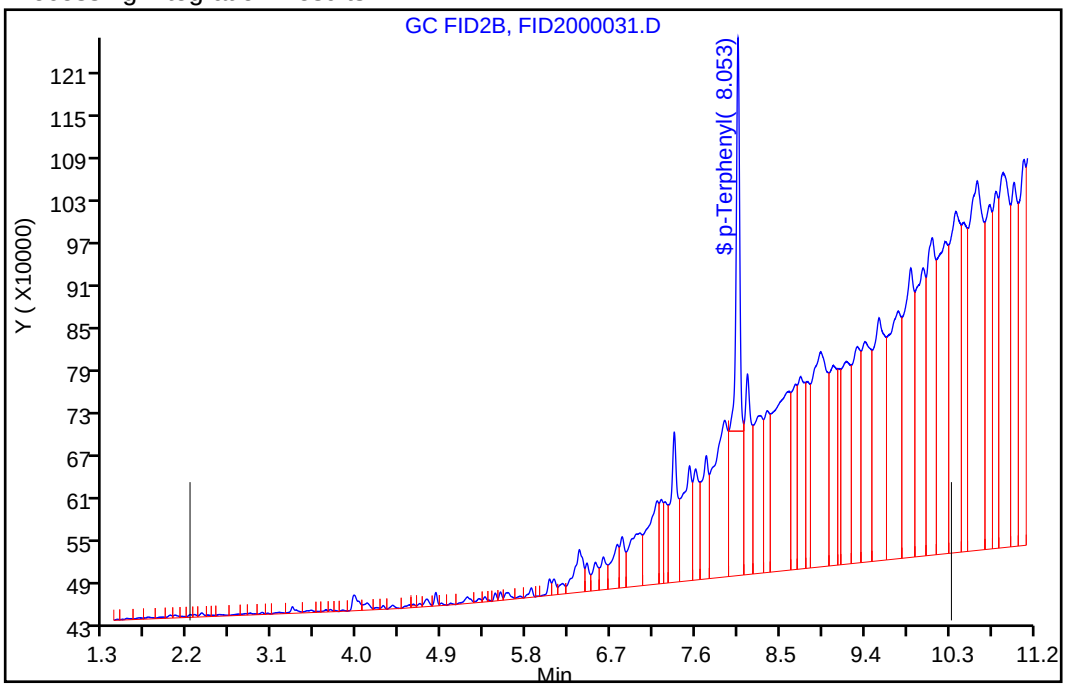
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000031.D				
Injection Date:	17-Jan-2019 03:34:39	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-18-D	Lab Sample ID:	720-90673-18		
Client ID:	DG-AM7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	81	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

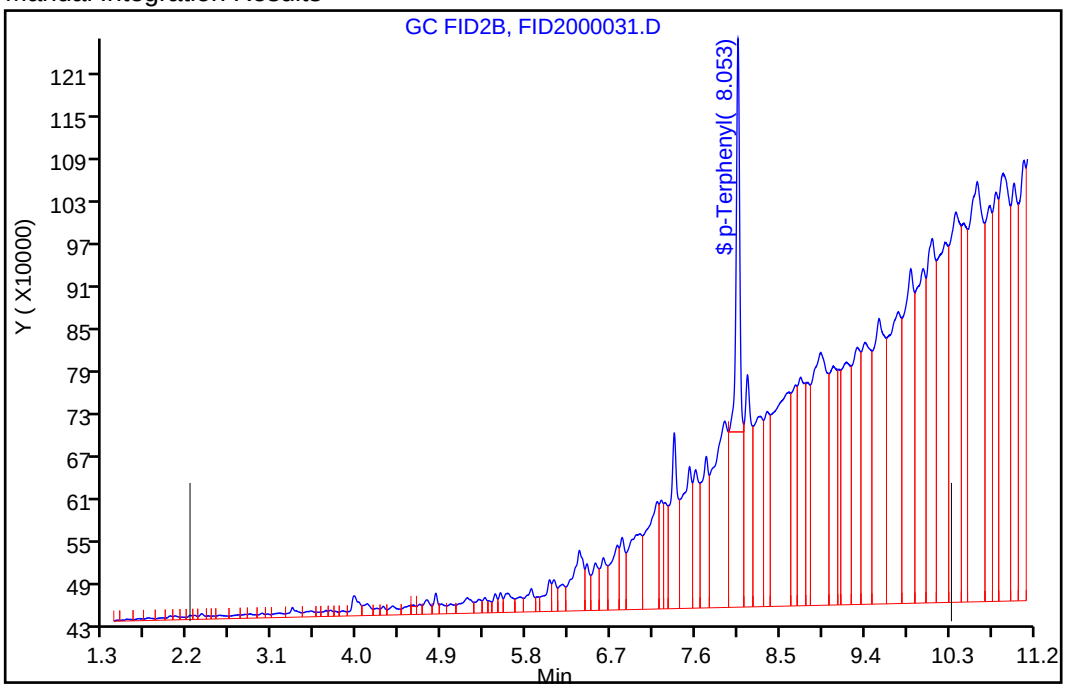
Processing Integration Results

RT: 6.27
Response: 1056107766
Amount: 534.0676



Manual Integration Results

RT: 6.27
Response: 1333491200
Amount: 674.3388



Reviewer: luj, 17-Jan-2019 14:27:32
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

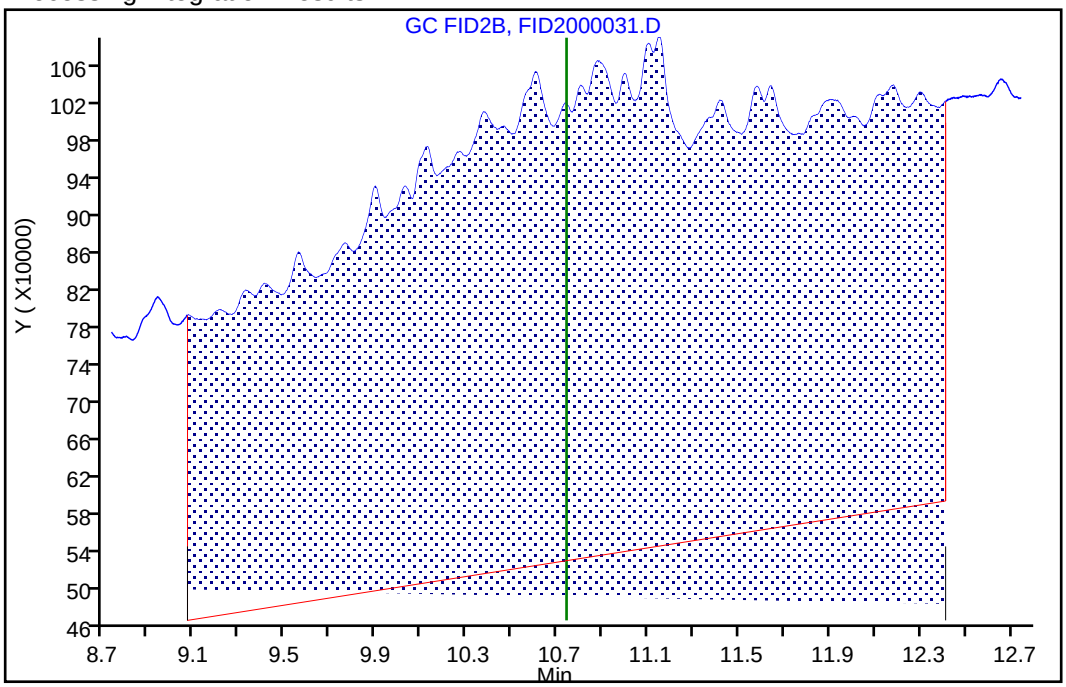
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000031.D				
Injection Date:	17-Jan-2019 03:34:39	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-18-D	Lab Sample ID:	720-90673-18		
Client ID:	DG-AM7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	81	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

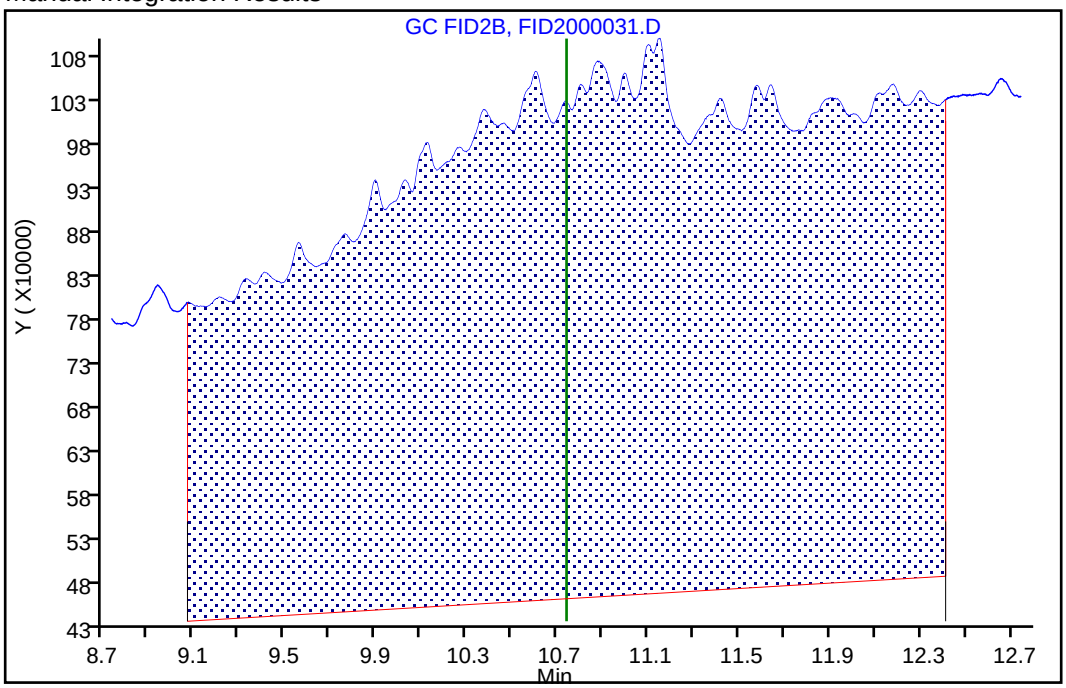
Processing Integration Results

RT: 10.74
Response: 1727882558
Amount: 1493.6667



Manual Integration Results

RT: 10.74
Response: 2015884762
Amount: 1742.6300



Reviewer: luj, 17-Jan-2019 14:27:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000024.D
Lims ID: 720-90673-E-19-D
Client ID: DG-AM7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 00:44:11 ALS Bottle#: 74 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-024
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 13:56:13 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 13:56:13

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.359	1.353	0.006	30271	NC	
	23 n-Decane	2.213	2.210	0.003	665466	NC	
A	21 Stoddard Solvent	2.811	(1.353-4.270)		14746800	6.19	
A	1 C9-C13	2.811	(1.353-4.270)		14746800	NC	
A	57 C10-C12	2.934	(2.210-3.658)		7039632	3.56	
	24 Dodecane	3.658	3.658	0.000	657179	NC	
A	3 C9 - C17	3.837	(1.353-6.321)		41138204	14.3	
A	60 C10-C16	4.030	(2.210-5.850)		30049454	11.7	
A	47 C9 - C18	4.060	(1.353-6.766)		52148811	23.0	
	26 C13	4.272	4.270	0.002	667569	NC	
A	25 C9-C19	4.272	(1.353-7.191)		62767378	21.7	
A	15 Kerosene	4.272	(1.353-7.191)		62767378	27.6	
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		23009822	11.6	
A	61 C10-C20	4.904	(2.210-7.598)		76834190	38.9	
A	28 C9-C24	5.209	(1.353-9.066)		149833520	75.8	
A	29 C9-C25	5.376	(1.353-9.398)		182783466	92.4	
A	54 C10-C23	5.465	(2.210-8.720)		126947338	64.2	
A	4 C10-C24	5.638	(2.210-9.066)		145787146	73.7	
A	16 C10-C25	5.804	(2.210-9.398)		178737092	90.4	
	45 Hexadecane	5.847	5.850	-0.003	1055981	NC	
A	14 C10-C26	5.965	(2.210-9.719)		202033280	102.2	
A	67 C12-C22	6.009	(3.658-8.361)		105635120	53.4	
A	32 C10-C28	6.269	(2.210-10.328)		245876934	124.3	
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		245876934	NC	
A	5 Diesel	6.269	(2.210-10.328)		245876934	124.3	
A	30 C13-C22	6.315	(4.270-8.361)		101974326	51.6	
	44 Heptadecane	6.363	6.321	0.043	3680785	NC	
A	31 C12-C24	6.362	(3.658-9.066)		138747514	70.2	
	49 n-Octadecane	6.755	6.766	-0.012	2550775	NC	
A	52 Mineral oil	6.883	(1.353-12.413)		795326827	345.6	
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		795326827	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		795326827	NC	
33 C19	7.193	7.191	0.002	3875548	NC	
A 64 C13-C28	7.299	(4.270-10.328)		235176508	118.9	
A 17 C10-C36	7.312	(2.210-12.413)		791280453	400.1	
A 13 C9-C40	7.373	(1.353-13.393)		923645057	521.1	
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		923645057	NC	
A 58 C16-C24	7.458	(5.850-9.066)		116793673	59.1	
62 icosane	7.595	7.598	-0.003	2531404	NC	
A 6 C10-C40	7.802	(2.210-13.393)		919598683	519.4	
$ 34 p-Terphenyl	8.052	8.057	-0.005	57295986	24.3	M
35 n-Docosane	8.362	8.361	0.001	3699670	NC	
A 18 C12-C40	8.526	(3.658-13.393)		912559051	517.3	
36 Tricosane	8.724	8.720	0.004	8623474	NC	
A 66 C13-C40	8.831	(4.270-13.393)		908898257	515.7	
37 n-Tetracosane	9.076	9.066	0.010	9445571	NC	
A 2 C16-C36 ORO	9.132	(5.850-12.413)		762286980	563.0	
38 C25	9.398	9.398	0.000	8665017	NC	
A 19 C16-C40	9.622	(5.850-13.393)		890605210	506.3	
46 n-Hexacosane	9.719	9.719	0.000	10339841	NC	
A 20 C19-C36	9.802	(7.191-12.413)		628813436	390.6	
A 55 C23-C32	10.077	(8.720-11.433)		363818818	410.1	
39 n-Octacosane	10.374	10.328	0.046	23847970	NC	
65 C29	10.570	10.618	-0.048	44850139	NC	
A 7 Motor Oil	10.740	(9.066-12.413)		595766406	515.0	
A 40 C24-C36	10.740	(9.066-12.413)		595766406	515.0	
A 10 C22-C40	10.877	(8.361-13.393)		737397721	455.5	
A 50 C25-C36	10.906	(9.398-12.413)		563144515	520.2	
A 41 C23-C40	11.057	(8.720-13.393)		728499289	458.7	
A 8 C24-C40	11.229	(9.066-13.393)		718097692	462.0	
56 Dotriacontane	11.425	11.433	-0.008	17497502	NC	
A 51 C28-C40	11.861	(10.328-13.393)		631511200	507.7	
A 63 C29-C40	12.006	(10.618-13.393)		583214559	510.7	
42 n-Hexatriacontane	12.380	12.413	-0.033	33940877	NC	
43 C40	13.387	13.393	-0.006	15167304	NC	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

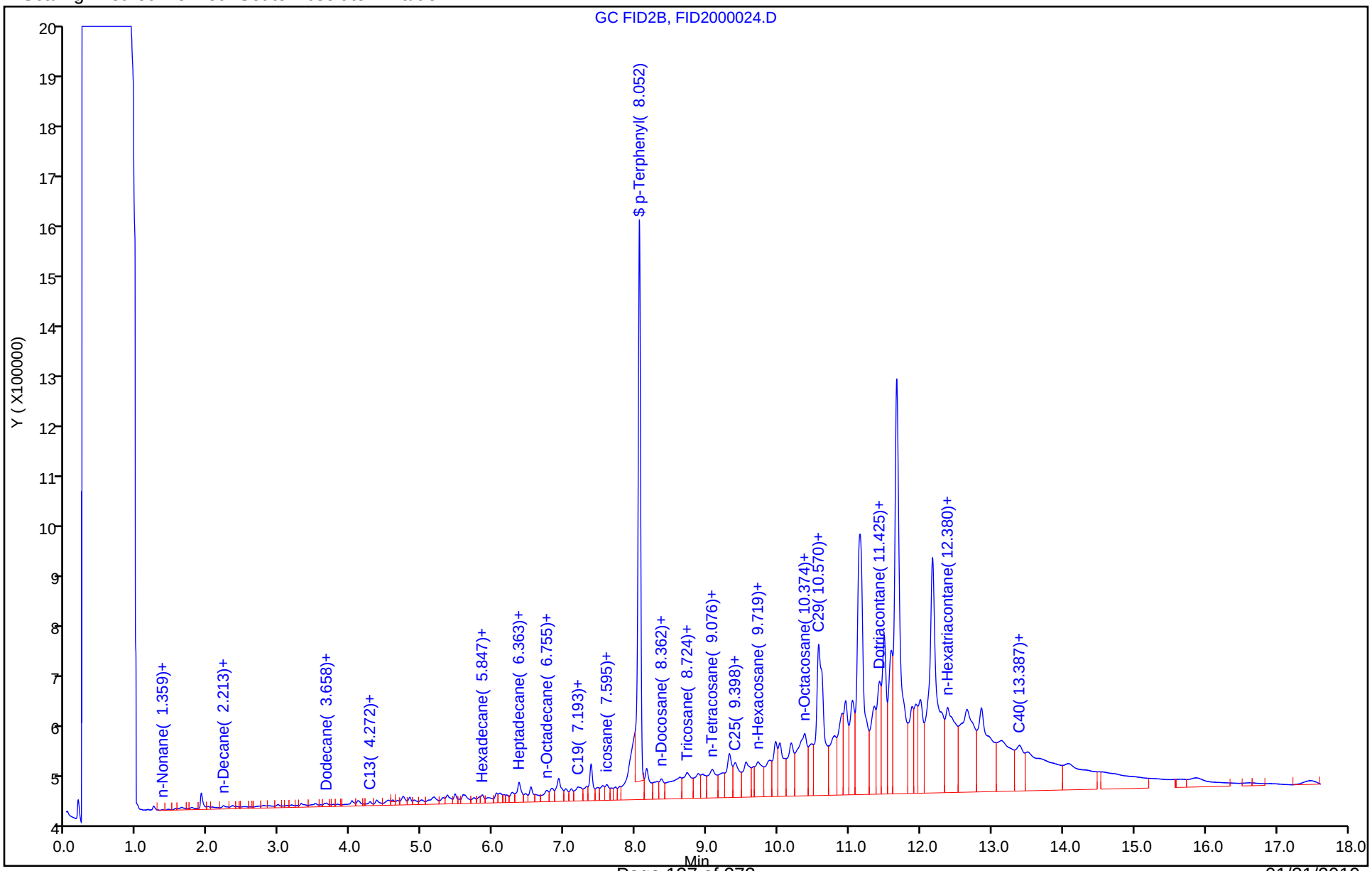
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000024.D

Injection Date:	17-Jan-2019 00:44:11	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-19-D	Lab Sample ID:	720-90673-19	Worklist Smp#:	24
Client ID:	DG-AM7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	74
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000024.D				
Lims ID:	720-90673-E-19-D				
Client ID:	DG-AM7S-3.5-4				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 00:44:11	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	720-0056116-024				
Operator ID:	RLU	Instrument ID:	CHDRO6		
Method:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m				
Limit Group:	DRO				
Last Update:	17-Jan-2019 13:56:13	Calib Date:	16-Jan-2019 21:53:41		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0323				

First Level Reviewer: luj Date: 17-Jan-2019 13:56:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.3	97.19

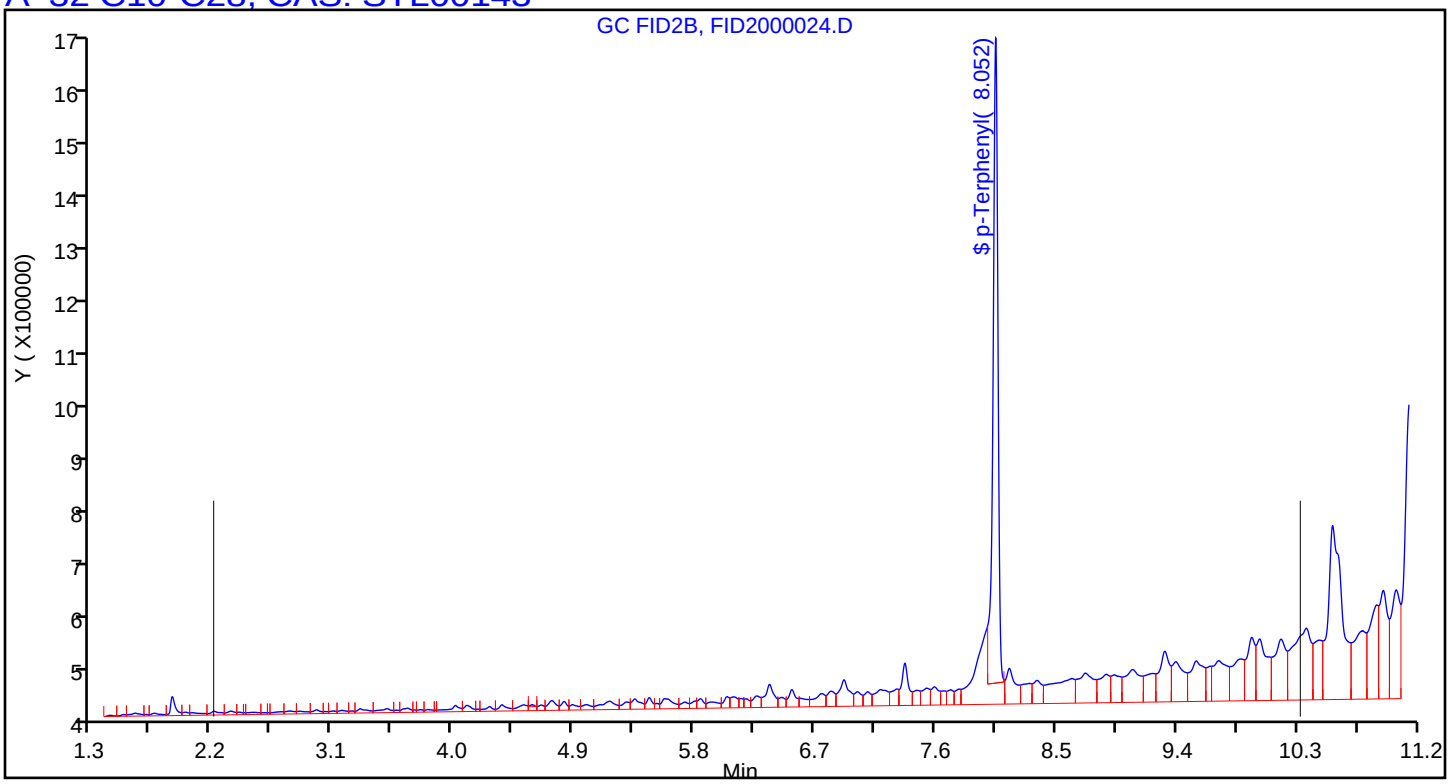
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000024.D

Injection Date:	17-Jan-2019 00:44:11	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-19-D	Lab Sample ID:	720-90673-19		
Client ID:	DG-AM7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

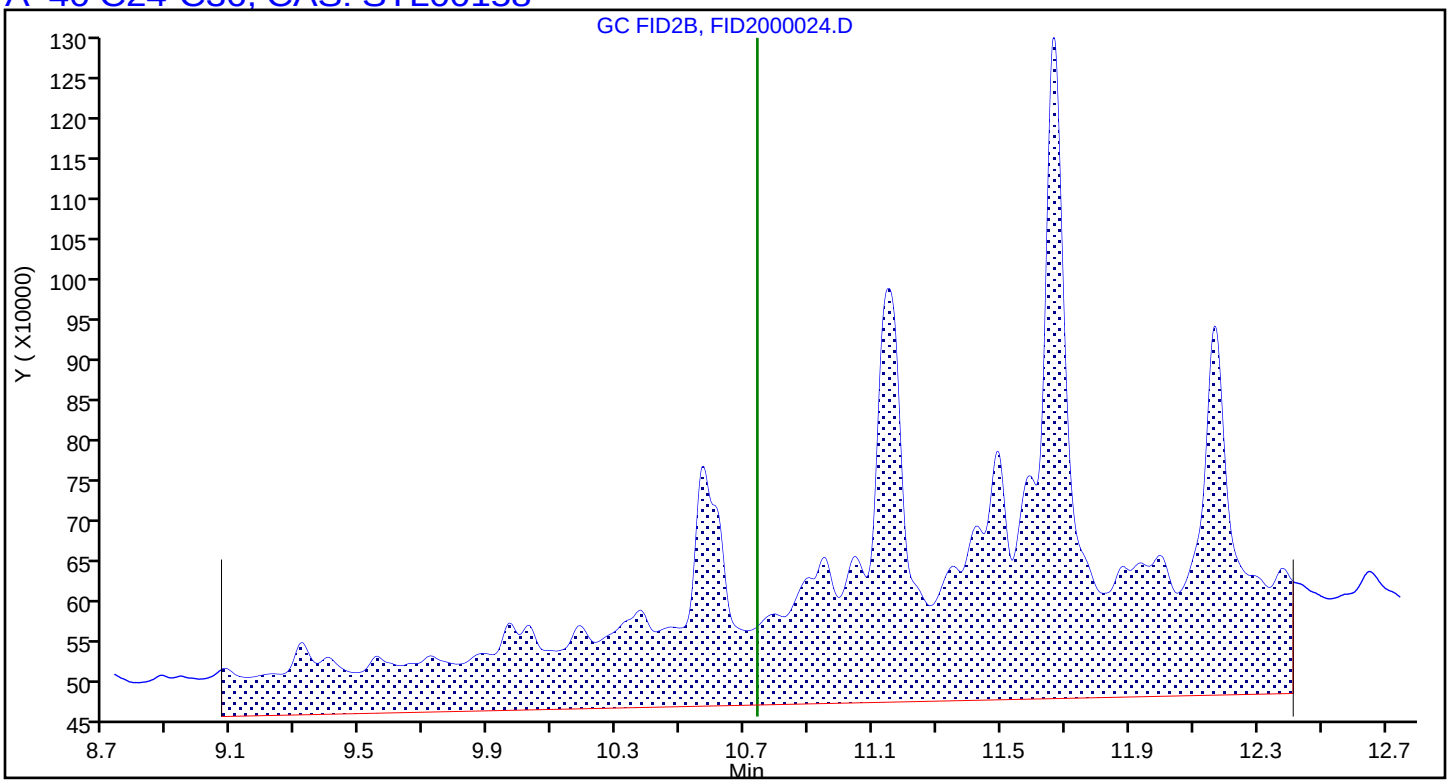


Report Date: 17-Jan-2019 13:56:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000024.D				
Injection Date:	17-Jan-2019 00:44:11	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-19-D	Lab Sample ID:	720-90673-19		
Client ID:	DG-AM7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

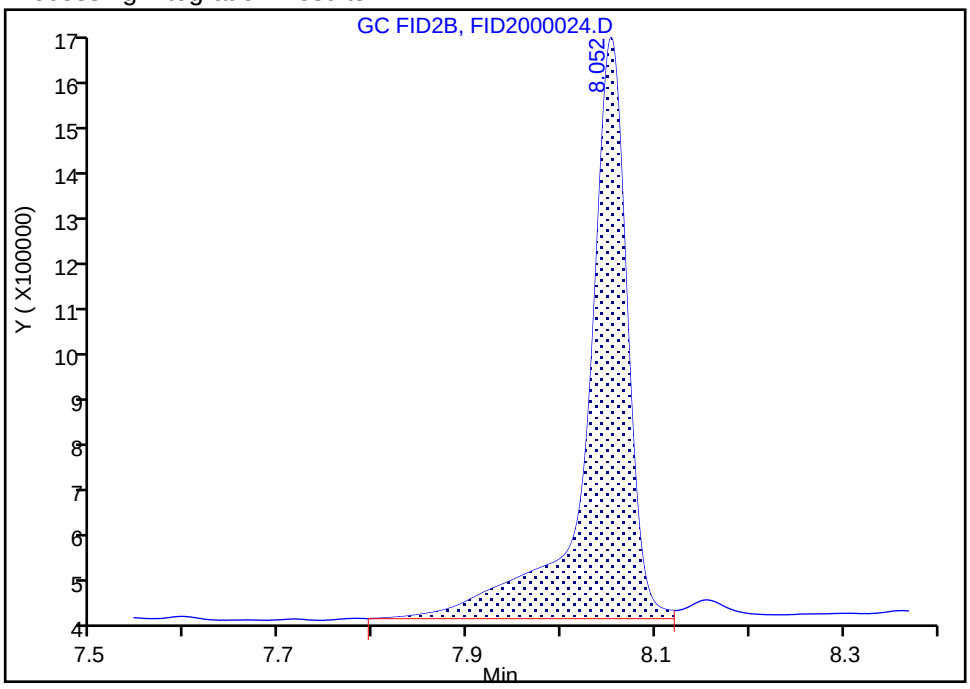
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Injection Date:	17-Jan-2019 00:44:11	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-19-D	Lab Sample ID:	720-90673-19		
Client ID:	DG-AM7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	74	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

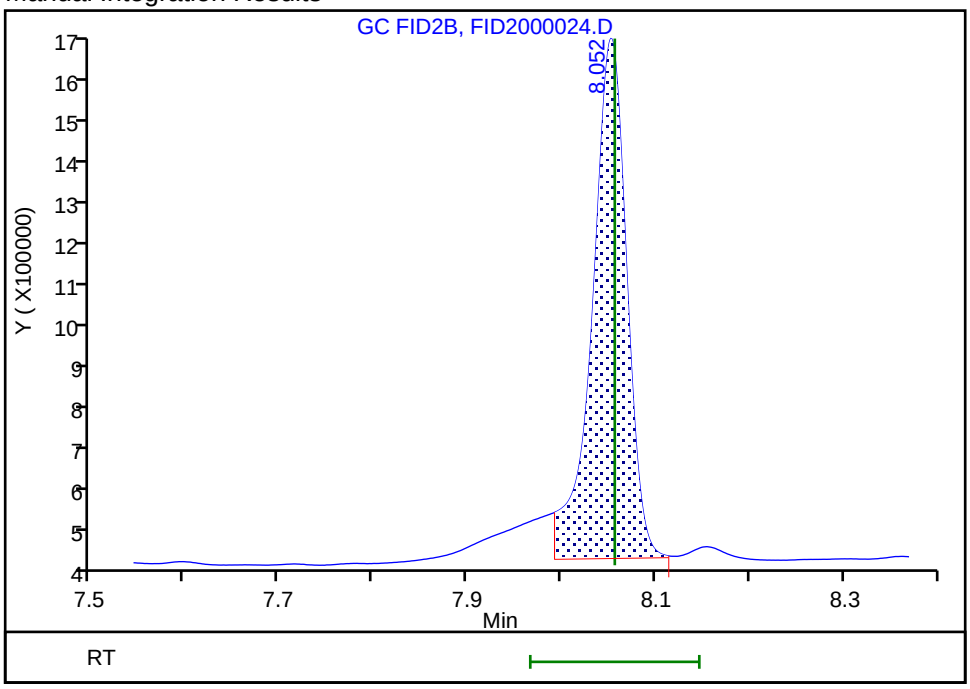
Processing Integration Results

RT: 8.05
Area: 68615194
Amount: 29.098303
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 57295986
Amount: 24.298058
Amount Units: mg/L



Reviewer: luj, 17-Jan-2019 13:56:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000023.D
Lims ID: 720-90673-E-20-D
Client ID: DG-AM7S-7.5-8
Sample Type: Client
Inject. Date: 17-Jan-2019 00:19:59 ALS Bottle#: 73 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 13:55:38 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 13:55:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.357	1.353	0.004	5710	NC	
	23 n-Decane	2.217	2.210	0.007	525124	NC	
A	21 Stoddard Solvent	2.811	(1.353-4.270)		26689161	11.2	
A	1 C9-C13	2.811	(1.353-4.270)		26689161	NC	
A	57 C10-C12	2.934	(2.210-3.658)		13011320	6.58	
	24 Dodecane	3.662	3.658	0.004	1321249	NC	
A	3 C9 - C17	3.837	(1.353-6.321)		82130504	28.6	
A	60 C10-C16	4.030	(2.210-5.850)		59098340	23.1	
A	47 C9 - C18	4.060	(1.353-6.766)		103818886	45.8	
	26 C13	4.272	4.270	0.002	1173184	NC	
A	25 C9-C19	4.272	(1.353-7.191)		122421402	42.4	
A	15 Kerosene	4.272	(1.353-7.191)		122421402	53.9	
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		46087020	23.3	
A	61 C10-C20	4.904	(2.210-7.598)		176860633	89.4	
A	28 C9-C24	5.209	(1.353-9.066)		415425232	210.1	
A	29 C9-C25	5.376	(1.353-9.398)		497866462	251.8	
A	54 C10-C23	5.465	(2.210-8.720)		349450344	176.7	
A	4 C10-C24	5.638	(2.210-9.066)		409337600	207.0	
A	16 C10-C25	5.804	(2.210-9.398)		491778830	248.7	
	45 Hexadecane	5.849	5.850	-0.001	2210200	NC	
A	14 C10-C26	5.965	(2.210-9.719)		519130296	262.5	
A	67 C12-C22	6.009	(3.658-8.361)		294770575	149.1	
A	32 C10-C28	6.269	(2.210-10.328)		639628858	323.5	
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		639628858	NC	
A	5 Diesel	6.269	(2.210-10.328)		639628858	323.5	
A	30 C13-C22	6.315	(4.270-8.361)		287180366	145.2	
	44 Heptadecane	6.319	6.321	-0.001	2280872	NC	
A	31 C12-C24	6.362	(3.658-9.066)		396326280	200.4	
	49 n-Octadecane	6.764	6.766	-0.002	6027047	NC	
A	52 Mineral oil	6.883	(1.353-12.413)		1078801432	468.7	
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		1078801432	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		1078801432	NC	
33 C19	7.280	7.191	0.089	23113109	NC	
A 64 C13-C28	7.299	(4.270-10.328)		619027329	313.0	
A 17 C10-C36	7.312	(2.210-12.413)		1072713800	542.5	
A 13 C9-C40	7.373	(1.353-13.393)		1177807106	664.5	
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		1177807106	NC	
A 58 C16-C24	7.458	(5.850-9.066)		352449460	178.2	
62 icosane	7.605	7.598	0.007	4681300	NC	
A 6 C10-C40	7.802	(2.210-13.393)		1171719474	661.8	
$ 34 p-Terphenyl	8.053	8.057	-0.004	58074986	24.6	M
35 n-Docosane	8.359	8.361	-0.002	18324160	NC	
A 18 C12-C40	8.526	(3.658-13.393)		1158708154	656.8	
36 Tricosane	8.721	8.720	0.001	21780576	NC	
A 66 C13-C40	8.831	(4.270-13.393)		1151117945	653.1	
37 n-Tetracosane	9.067	9.066	0.001	13567039	NC	
A 2 C16-C36 ORO	9.132	(5.850-12.413)		1015825660	750.2	
38 C25	9.397	9.398	-0.001	22953198	NC	
A 19 C16-C40	9.622	(5.850-13.393)		1114831334	633.8	
46 n-Hexacosane	9.721	9.719	0.002	28655604	NC	
A 20 C19-C36	9.802	(7.191-12.413)		796379171	494.7	
A 55 C23-C32	10.077	(8.720-11.433)		548342576	618.2	
39 n-Octacosane	10.332	10.328	0.004	55964079	NC	
65 C29	10.616	10.618	-0.002	36541457	NC	
A 7 Motor Oil	10.740	(9.066-12.413)		597462212	516.5	
A 40 C24-C36	10.740	(9.066-12.413)		597462212	516.5	
A 10 C22-C40	10.877	(8.361-13.393)		745168315	460.3	
A 50 C25-C36	10.906	(9.398-12.413)		513222317	474.1	
A 41 C23-C40	11.057	(8.720-13.393)		701891111	442.0	
A 8 C24-C40	11.229	(9.066-13.393)		652404671	419.7	
56 Dotriacontane	11.431	11.433	-0.002	20031667	NC	
A 51 C28-C40	11.861	(10.328-13.393)		444644773	357.5	
A 63 C29-C40	12.006	(10.618-13.393)		391641862	343.0	
42 n-Hexatriacontane		12.413			ND	
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

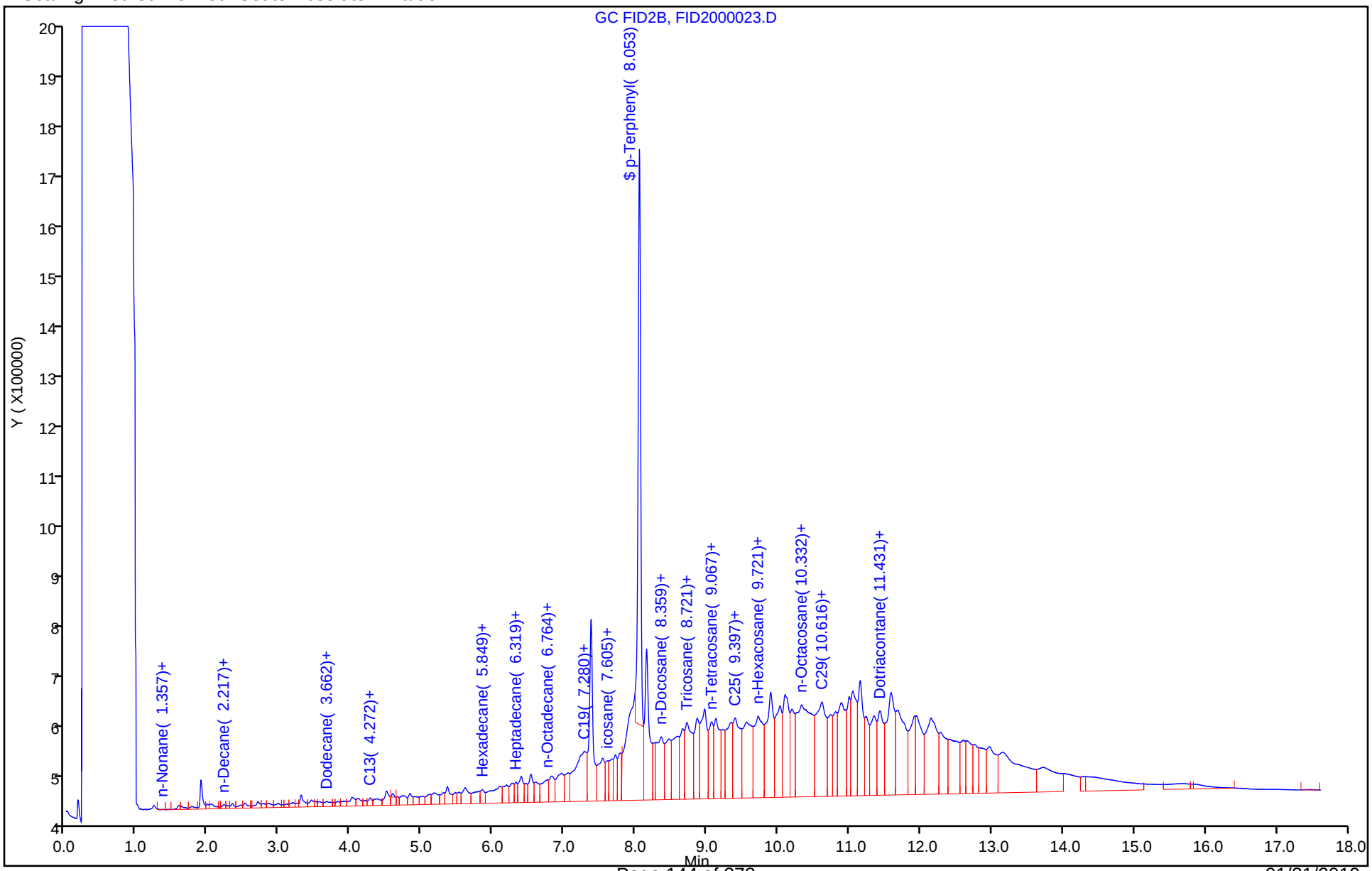
Report Date: 17-Jan-2019 13:55:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000023.D

Injection Date:	17-Jan-2019 00:19:59	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-20-D	Lab Sample ID:	720-90673-20	Worklist Smp#:	23
Client ID:	DG-AM7S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	73
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000023.D
Lims ID: 720-90673-E-20-D
Client ID: DG-AM7S-7.5-8
Sample Type: Client
Inject. Date: 17-Jan-2019 00:19:59 ALS Bottle#: 73 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 13:55:38 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 13:55:38

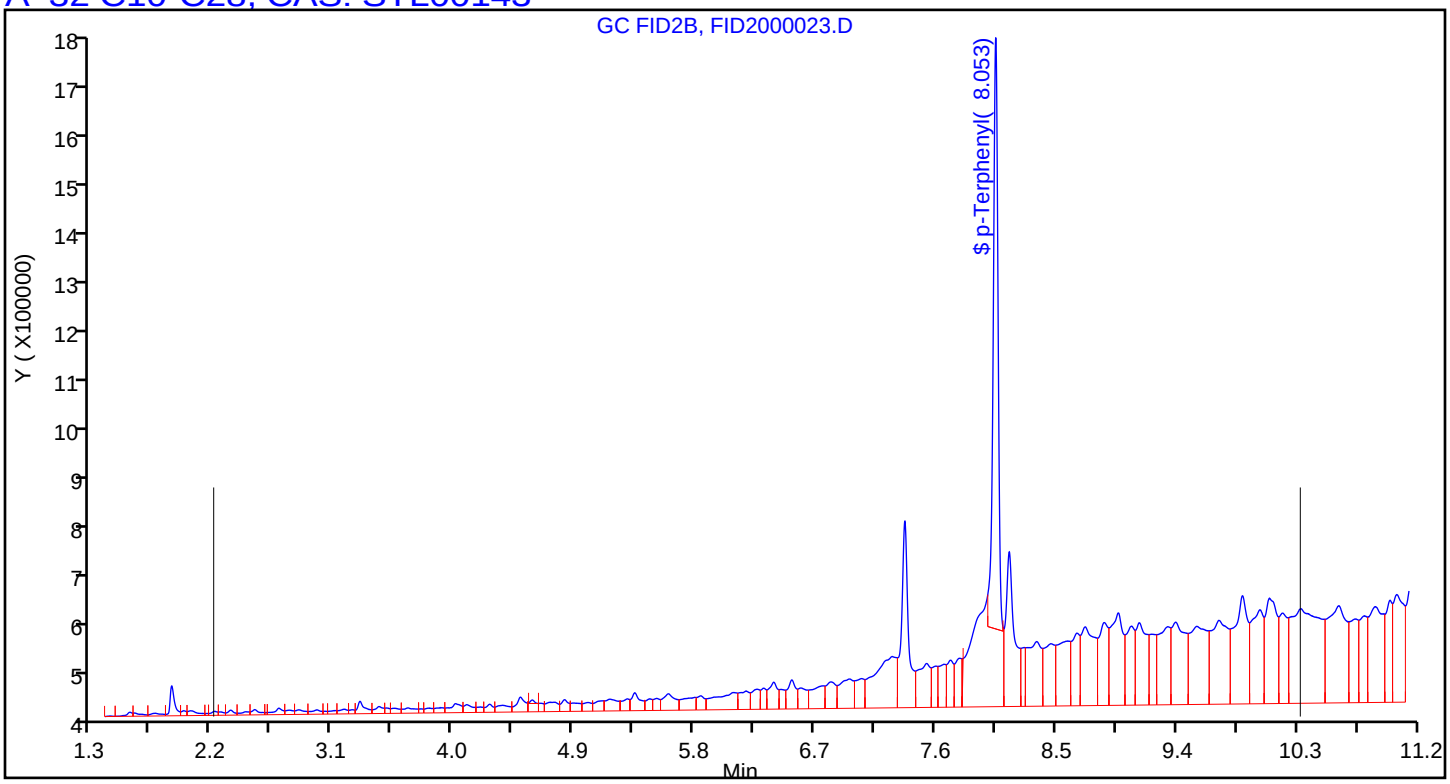
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.6	98.51

Report Date: 17-Jan-2019 13:55:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000023.D				
Injection Date:	17-Jan-2019 00:19:59	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-20-D	Lab Sample ID:	720-90673-20		
Client ID:	DG-AM7S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

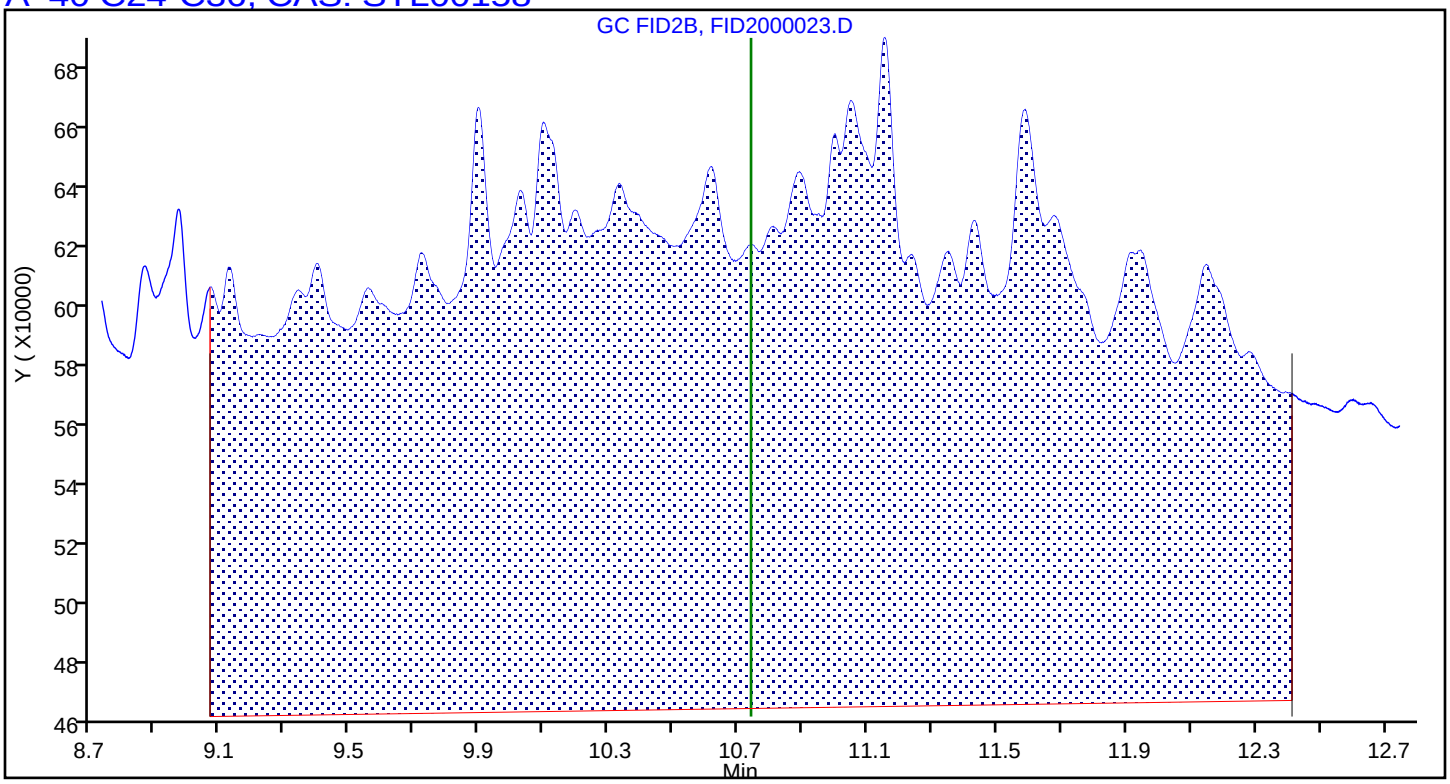


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TestAmerica Pleasanton

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Injection Date:	17-Jan-2019 00:19:59	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-20-D	Lab Sample ID:	720-90673-20		
Client ID:	DG-AM7S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

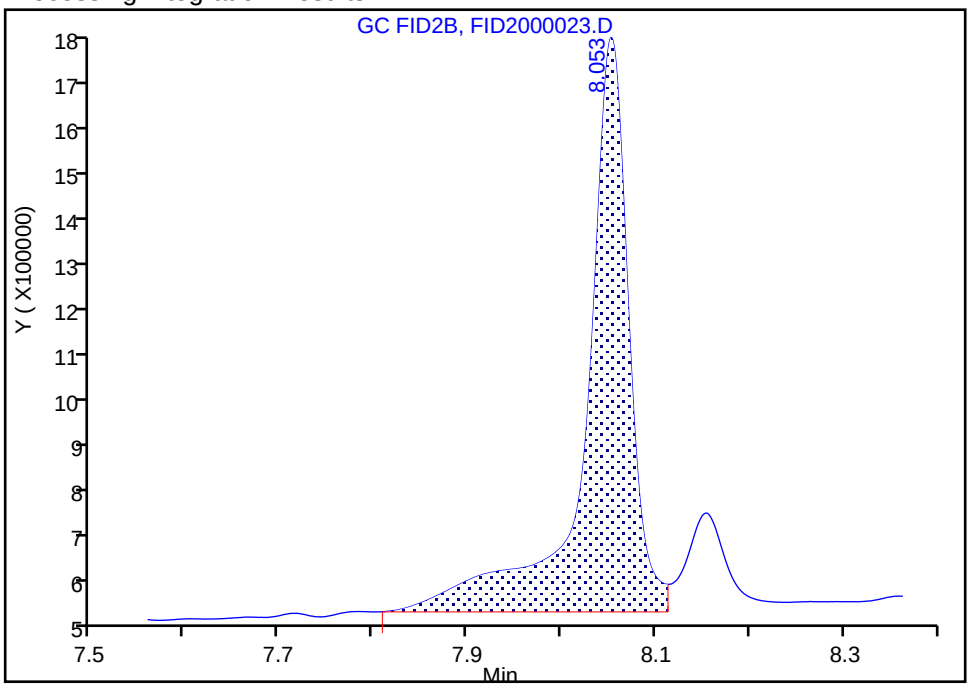
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000023.D				
Injection Date:	17-Jan-2019 00:19:59	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-20-D	Lab Sample ID:	720-90673-20		
Client ID:	DG-AM7S-7.5-8				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

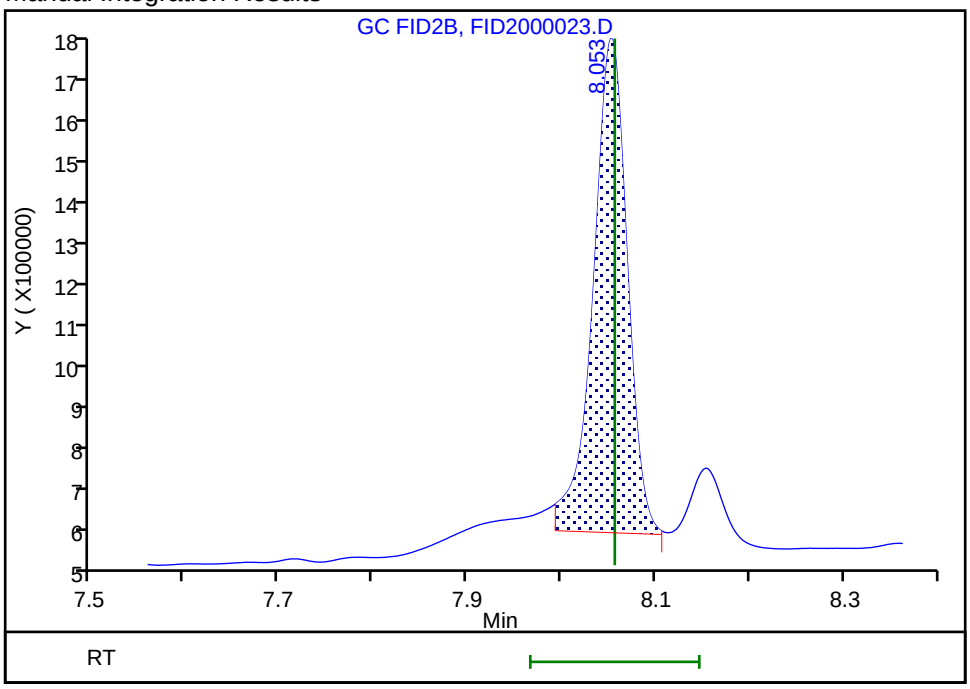
Processing Integration Results

RT: 8.05
Area: 79567411
Amount: 33.742915
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 58074986
Amount: 24.628416
Amount Units: mg/L



Reviewer: luj, 17-Jan-2019 13:55:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000027.D
Lims ID: 720-90673-E-21-F
Client ID: DG-AO7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 01:57:23 ALS Bottle#: 77 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-027
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 13:59:55 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 13:59:55

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.359	1.353	0.006	210882	NC	M
	23 n-Decane	2.209	2.210	-0.001	995084	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		25507385	10.7	M
A	1 C9-C13	2.811	(1.353-4.270)		25507385	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		11286047	5.71	M
	24 Dodecane	3.662	3.658	0.004	1076902	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		71275745	24.8	M
A	60 C10-C16	4.030	(2.210-5.850)		55714959	21.8	M
A	47 C9 - C18	4.060	(1.353-6.766)		92452504	40.8	M
	26 C13	4.269	4.270	-0.001	1484899	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		111692522	38.7	M
A	15 Kerosene	4.272	(1.353-7.191)		111692522	49.2	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		44428912	22.5	M
A	61 C10-C20	4.904	(2.210-7.598)		143395744	72.5	M
A	28 C9-C24	5.209	(1.353-9.066)		333519965	168.7	M
A	29 C9-C25	5.376	(1.353-9.398)		389802056	197.1	M
A	54 C10-C23	5.465	(2.210-8.720)		291439037	147.4	M
A	4 C10-C24	5.638	(2.210-9.066)		329249099	166.5	M
A	16 C10-C25	5.804	(2.210-9.398)		385531190	195.0	M
	45 Hexadecane	5.850	5.850	0.000	2100991	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		437108545	221.0	M
A	67 C12-C22	6.009	(3.658-8.361)		228026138	115.3	M
A	32 C10-C28	6.269	(2.210-10.328)		577424842	292.0	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		577424842	NC	M
A	5 Diesel	6.269	(2.210-10.328)		577424842	292.0	M
A	30 C13-C22	6.315	(4.270-8.361)		219560565	111.0	M
	44 Heptadecane	6.365	6.321	0.045	4793004	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		317963052	160.8	M
	49 n-Octadecane	6.764	6.766	-0.002	4657721	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		1278485662	555.5	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		1278485662	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		1278485662	NC	M
33 C19	7.232	7.191	0.041	8236430	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		557673222	282.0	M
A 17 C10-C36	7.312	(2.210-12.413)		1274214796	644.4	M
A 13 C9-C40	7.373	(1.353-13.393)		1656951480	934.8	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		1656951480	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		275635131	139.4	M
62 icosane	7.600	7.598	0.002	5513260	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		1652680614	933.4	M
$ 34 p-Terphenyl	8.053	8.057	-0.004	61667092	26.2	M
35 n-Docosane	8.361	8.361	0.000	9819206	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		1641394567	930.4	M
36 Tricosane	8.717	8.720	-0.003	29276739	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		1632928994	926.5	M
37 n-Tetracosane	9.067	9.066	0.001	12713472	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		1220600828	901.5	M
38 C25	9.438	9.398	0.040	25538925	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		1599066646	909.1	M
46 n-Hexacosane	9.721	9.719	0.002	24662706	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		779622429	484.3	
A 55 C23-C32	10.077	(8.720-11.433)		715354449	806.4	M
39 n-Octacosane	10.330	10.328	0.002	28080449	NC	M
65 C29	10.610	10.618	-0.008	28484207	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		731007869	631.9	
A 40 C24-C36	10.740	(9.066-12.413)		933717978	807.2	M
A 10 C22-C40	10.877	(8.361-13.393)		971215460	599.9	
A 50 C25-C36	10.906	(9.398-12.413)		657818894	607.7	
A 41 C23-C40	11.057	(8.720-13.393)		954816553	601.2	
A 8 C24-C40	11.229	(9.066-13.393)		968904568	623.4	
56 Dotriacontane	11.427	11.433	-0.006	45437444	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		790041539	635.1	
A 63 C29-C40	12.006	(10.618-13.393)		726097412	635.8	
42 n-Hexatriacontane	12.421	12.413	0.008	13908496	NC	M
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

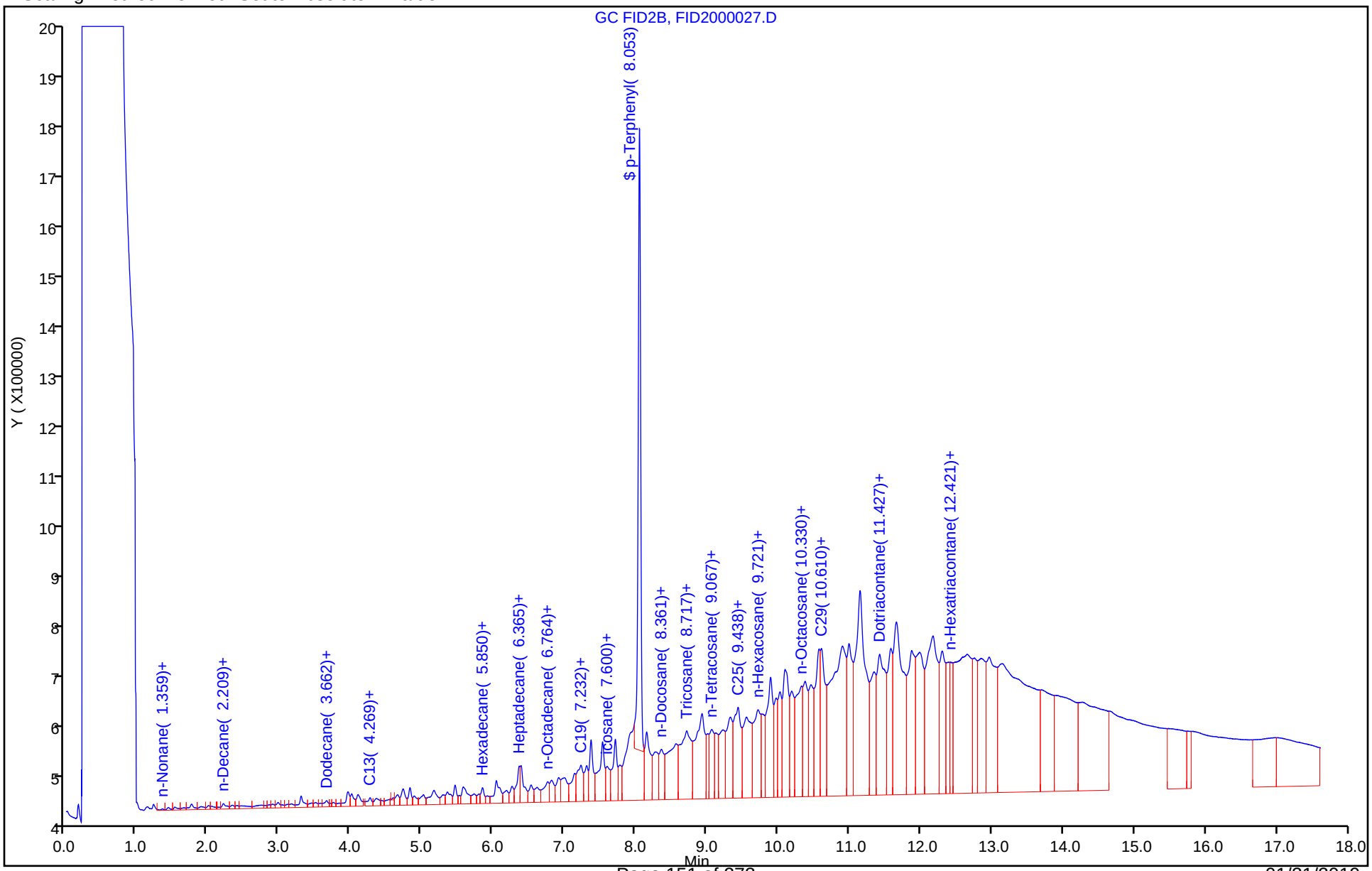
Report Date: 17-Jan-2019 13:59:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000027.D

Injection Date:	17-Jan-2019 01:57:23	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-21-F	Lab Sample ID:	720-90673-21	Worklist Smp#:	27
Client ID:	DG-AO7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	77
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000027.D
Lims ID: 720-90673-E-21-F
Client ID: DG-AO7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 01:57:23 ALS Bottle#: 77 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-027
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 13:59:55 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 13:59:55

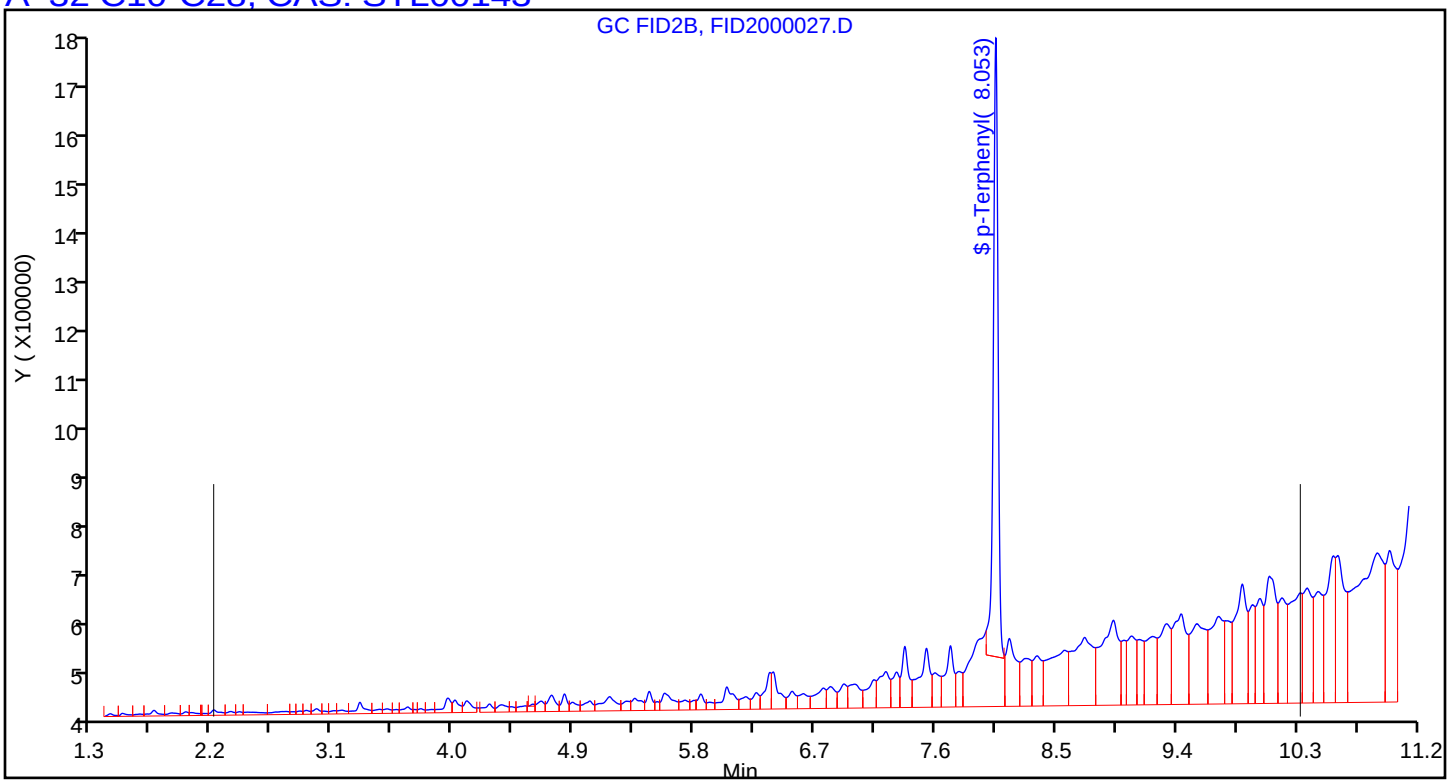
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.2	104.61

Report Date: 17-Jan-2019 13:59:58 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000027.D				
Injection Date:	17-Jan-2019 01:57:23	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-21-F	Lab Sample ID:	720-90673-21		
Client ID:	DG-AO7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	77	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

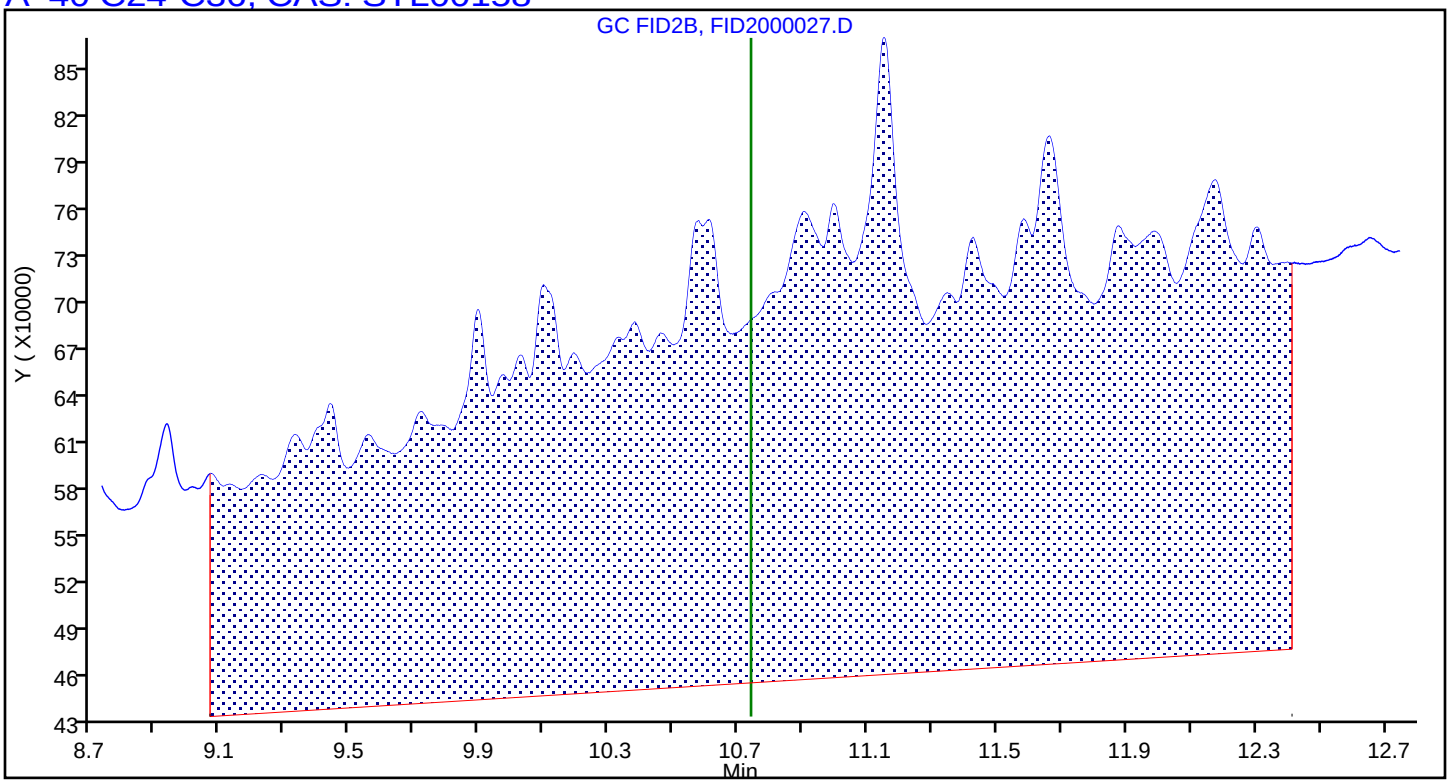


Report Date: 17-Jan-2019 14:00:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000027.D				
Injection Date:	17-Jan-2019 01:57:23	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-21-F	Lab Sample ID:	720-90673-21		
Client ID:	DG-AO7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	77	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

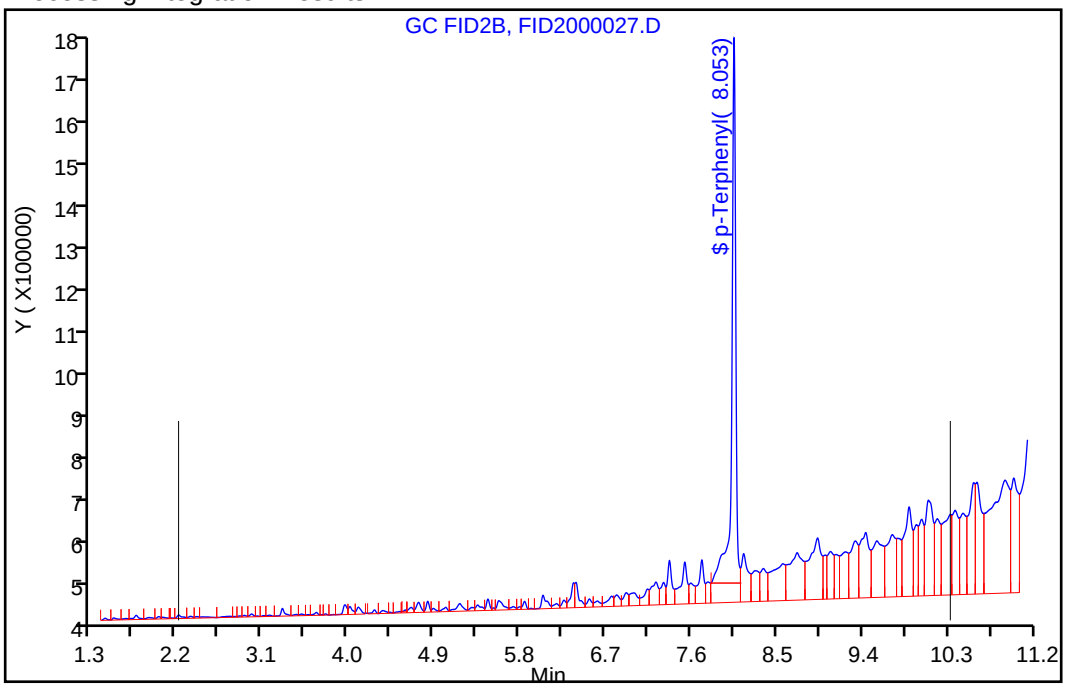
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Injection Date:	17-Jan-2019 01:57:23	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-21-F	Lab Sample ID:	720-90673-21		
Client ID:	DG-AO7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	77	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

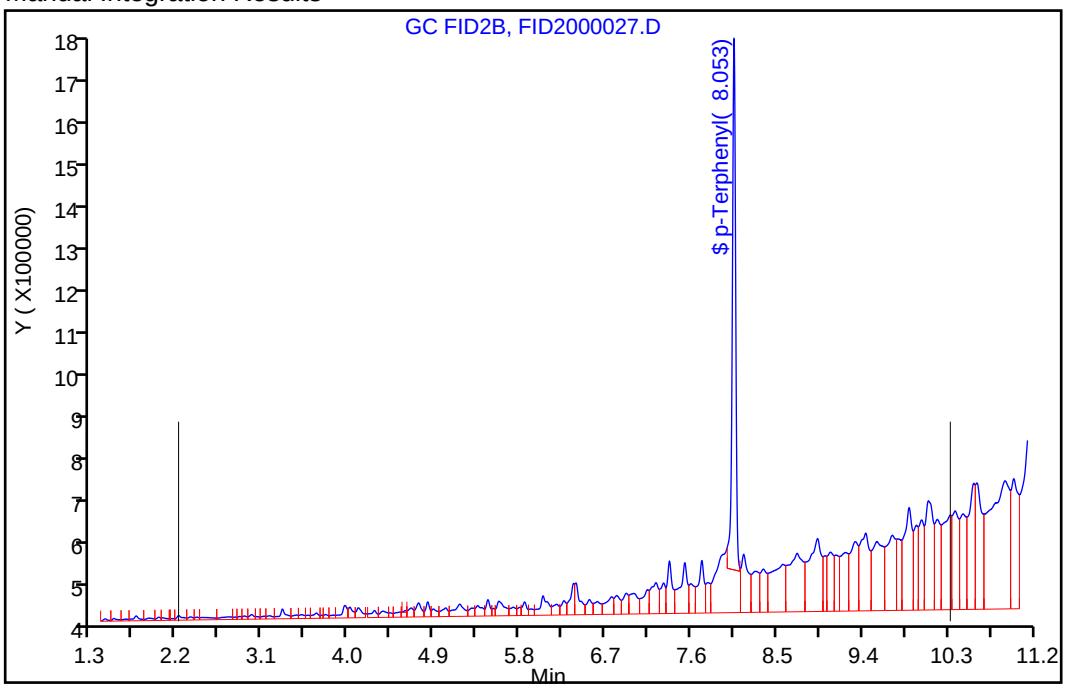
Processing Integration Results

RT: 6.27
Response: 407453319
Amount: 206.0468



Manual Integration Results

RT: 6.27
Response: 577424842
Amount: 292.0004



Reviewer: luj, 17-Jan-2019 13:59:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

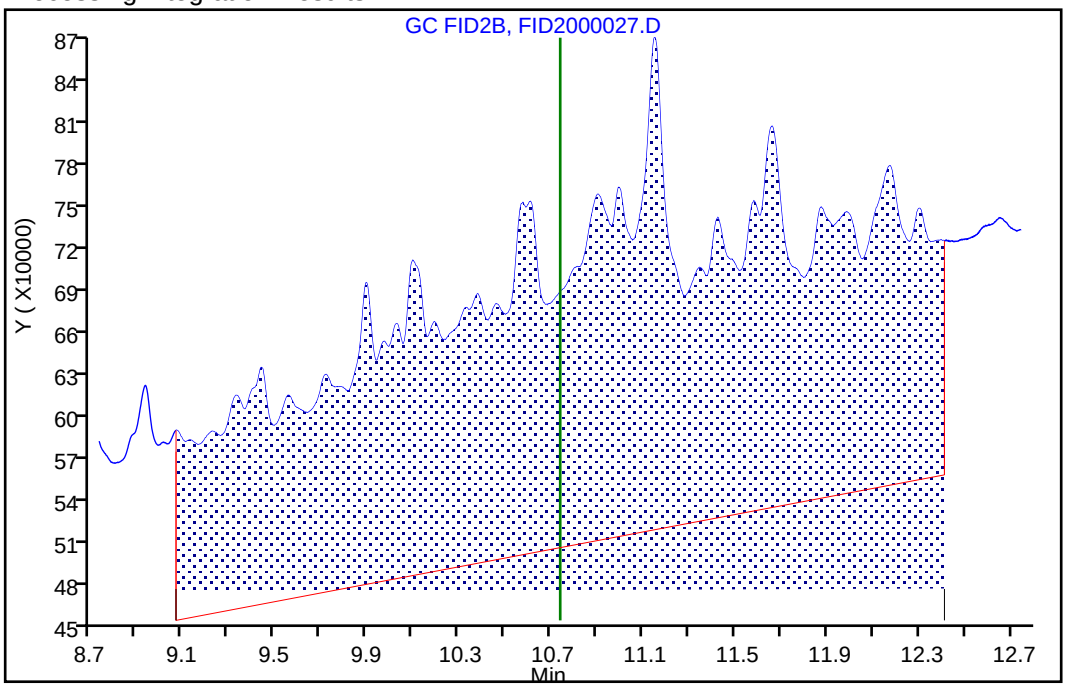
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Injection Date:	17-Jan-2019 01:57:23	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-21-F	Lab Sample ID:	720-90673-21		
Client ID:	DG-AO7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	77	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

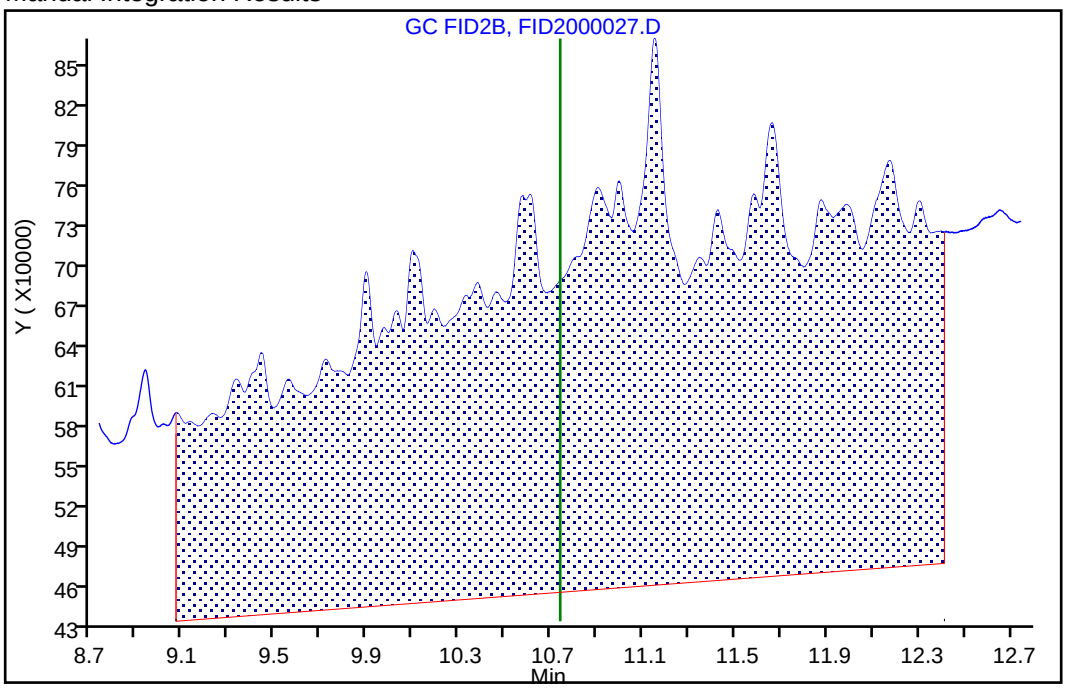
Processing Integration Results

RT: 10.74
Response: 731007869
Amount: 631.9192



Manual Integration Results

RT: 10.74
Response: 933717978
Amount: 807.1518



Reviewer: luj, 17-Jan-2019 13:59:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

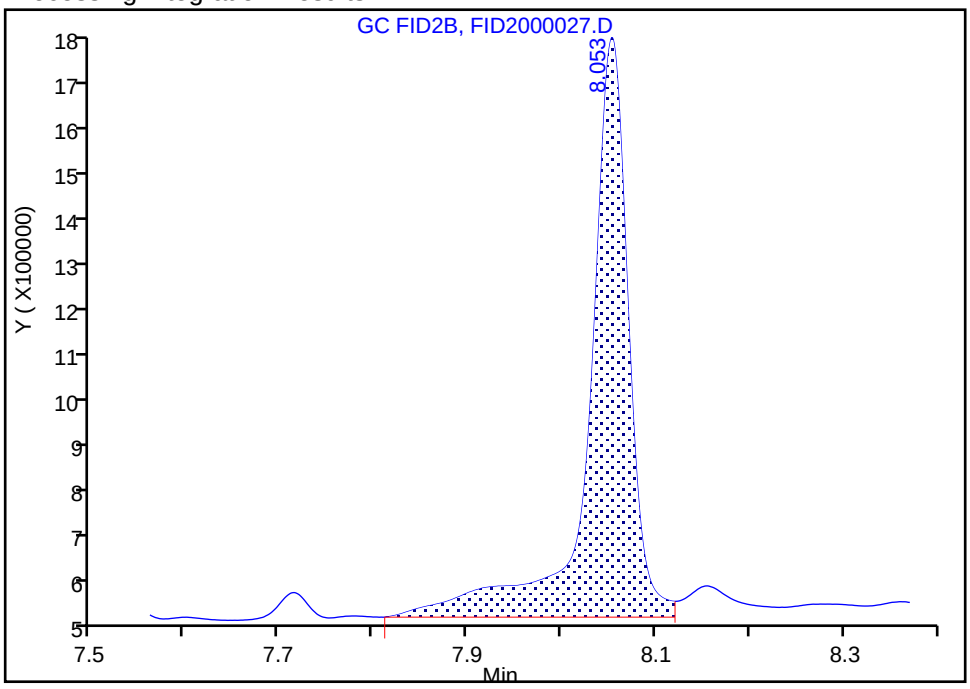
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Injection Date:	17-Jan-2019 01:57:23	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-21-F	Lab Sample ID:	720-90673-21		
Client ID:	DG-AO7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	77	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

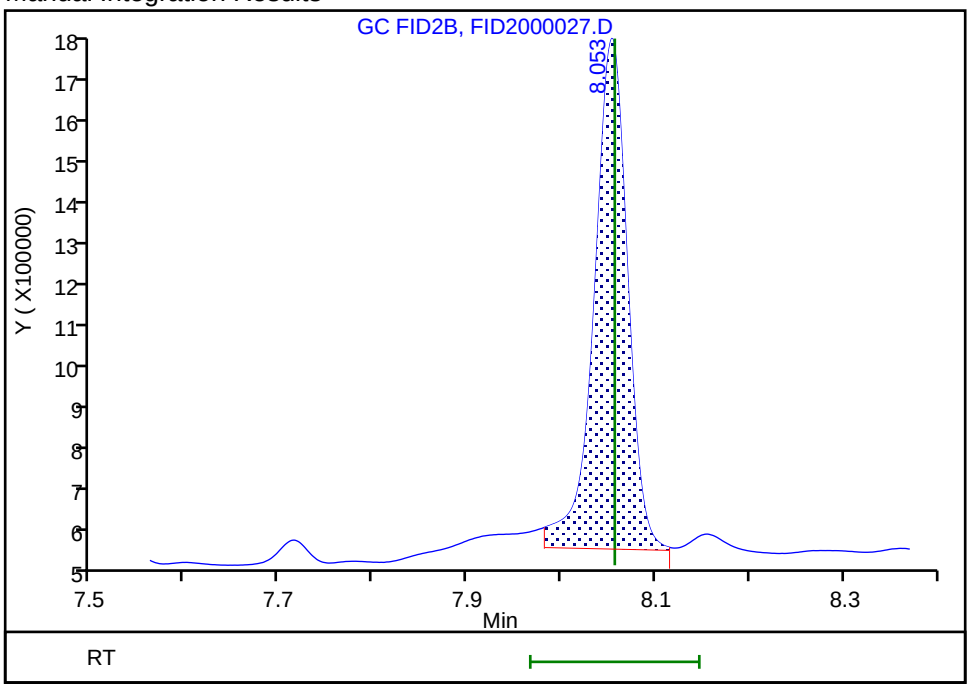
Processing Integration Results

RT: 8.05
Area: 76331602
Amount: 32.370674
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 61667092
Amount: 26.151755
Amount Units: mg/L



Reviewer: luj, 17-Jan-2019 13:59:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000028.D
Lims ID: 720-90673-E-22-D
Client ID: DG-AO7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 02:21:44 ALS Bottle#: 78 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056116-028
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:01:06 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:01:06

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.355	1.353	0.002	60666	NC	M
	23 n-Decane	2.213	2.210	0.003	483380	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		9201852	3.86	M
A	1 C9-C13	2.811	(1.353-4.270)		9201852	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		4628500	2.34	M
	24 Dodecane	3.662	3.658	0.004	506714	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		31248721	10.9	M
A	60 C10-C16	4.030	(2.210-5.850)		21507731	8.40	M
A	47 C9 - C18	4.060	(1.353-6.766)		45409738	20.0	M
	26 C13	4.272	4.270	0.002	436847	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		56088760	19.4	M
A	15 Kerosene	4.272	(1.353-7.191)		56088760	24.7	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		16879231	8.54	M
A	61 C10-C20	4.904	(2.210-7.598)		73899642	37.4	M
A	28 C9-C24	5.209	(1.353-9.066)		191505182	96.8	M
A	29 C9-C25	5.376	(1.353-9.398)		227425669	115.0	M
A	54 C10-C23	5.465	(2.210-8.720)		168121470	85.0	M
A	4 C10-C24	5.638	(2.210-9.066)		189916239	96.0	M
A	16 C10-C25	5.804	(2.210-9.398)		225836726	114.2	M
	45 Hexadecane	5.852	5.850	0.002	1510274	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		271298620	137.2	M
A	67 C12-C22	6.009	(3.658-8.361)		132747629	67.1	M
A	32 C10-C28	6.269	(2.210-10.328)		333163218	168.5	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		333163218	NC	M
A	5 Diesel	6.269	(2.210-10.328)		333163218	168.5	M
A	30 C13-C22	6.315	(4.270-8.361)		129763220	65.6	M
	44 Heptadecane	6.362	6.321	0.042	4971568	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		185287739	93.7	M
	49 n-Octadecane	6.764	6.766	-0.002	2969317	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		800689803	347.9	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		800689803	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		800689803	NC	M
33 C19	7.195	7.191	0.004	6884404	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		325550309	164.6	M
A 17 C10-C36	7.312	(2.210-12.413)		799100860	404.1	M
A 13 C9-C40	7.373	(1.353-13.393)		1460728297	824.1	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		1460728297	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		168408508	85.2	M
62 icosane	7.599	7.598	0.001	7964793	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		1459139354	824.1	M
$ 34 p-Terphenyl	8.054	8.057	-0.003	30634072	13.0	M
35 n-Docosane	8.359	8.361	-0.002	5586506	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		1454510854	824.5	M
36 Tricosane	8.718	8.720	-0.002	8052210	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		1451526445	823.5	M
37 n-Tetracosane	9.067	9.066	0.001	11860829	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		777593129	574.3	M
38 C25	9.401	9.398	0.003	12744560	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		1437631623	817.3	M
46 n-Hexacosane	9.718	9.719	-0.001	32717334	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		490698330	304.8	
A 55 C23-C32	10.077	(8.720-11.433)		426839692	481.2	M
39 n-Octacosane	10.328	10.328	0.000	30973462	NC	M
65 C29	10.612	10.618	-0.006	22140240	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		494174149	427.2	
A 40 C24-C36	10.740	(9.066-12.413)		654444133	565.7	M
A 10 C22-C40	10.877	(8.361-13.393)		677829796	418.7	
A 50 C25-C36	10.906	(9.398-12.413)		440422527	406.9	
A 41 C23-C40	11.057	(8.720-13.393)		671078551	422.6	
A 8 C24-C40	11.229	(9.066-13.393)		690153415	444.0	
56 Dotriacontane	11.491	11.433	0.058	34770242	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		591334892	475.4	
A 63 C29-C40	12.006	(10.618-13.393)		547329173	479.3	
42 n-Hexatriacontane	12.485	12.413	0.072	67638729	NC	M
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

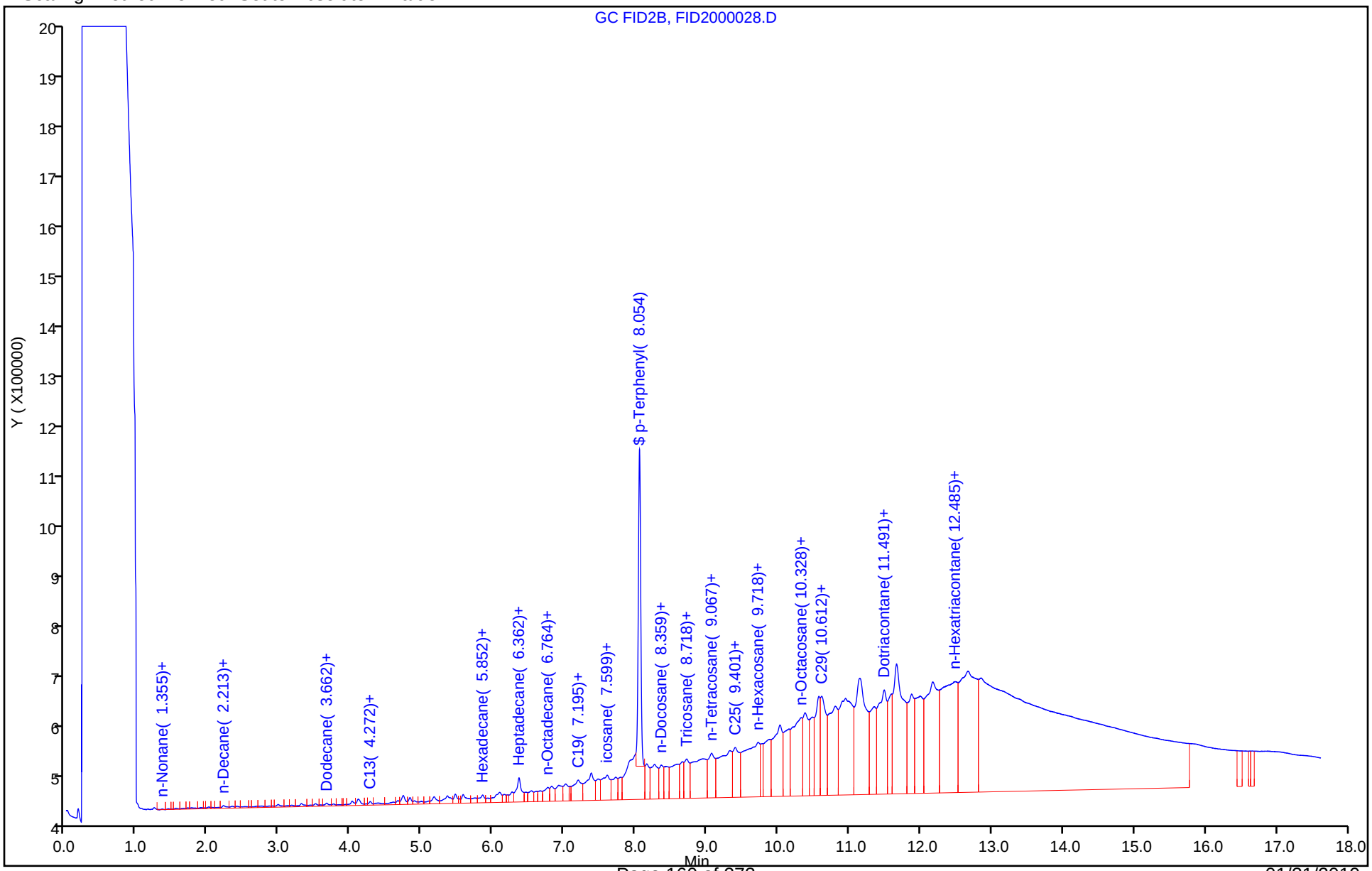
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000028.D

Injection Date:	17-Jan-2019 02:21:44	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-22-D	Lab Sample ID:	720-90673-22	Worklist Smp#:	28
Client ID:	DG-AO7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	78
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000028.D
Lims ID: 720-90673-E-22-D
Client ID: DG-AO7S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 02:21:44 ALS Bottle#: 78 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056116-028
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:01:06 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:01:06

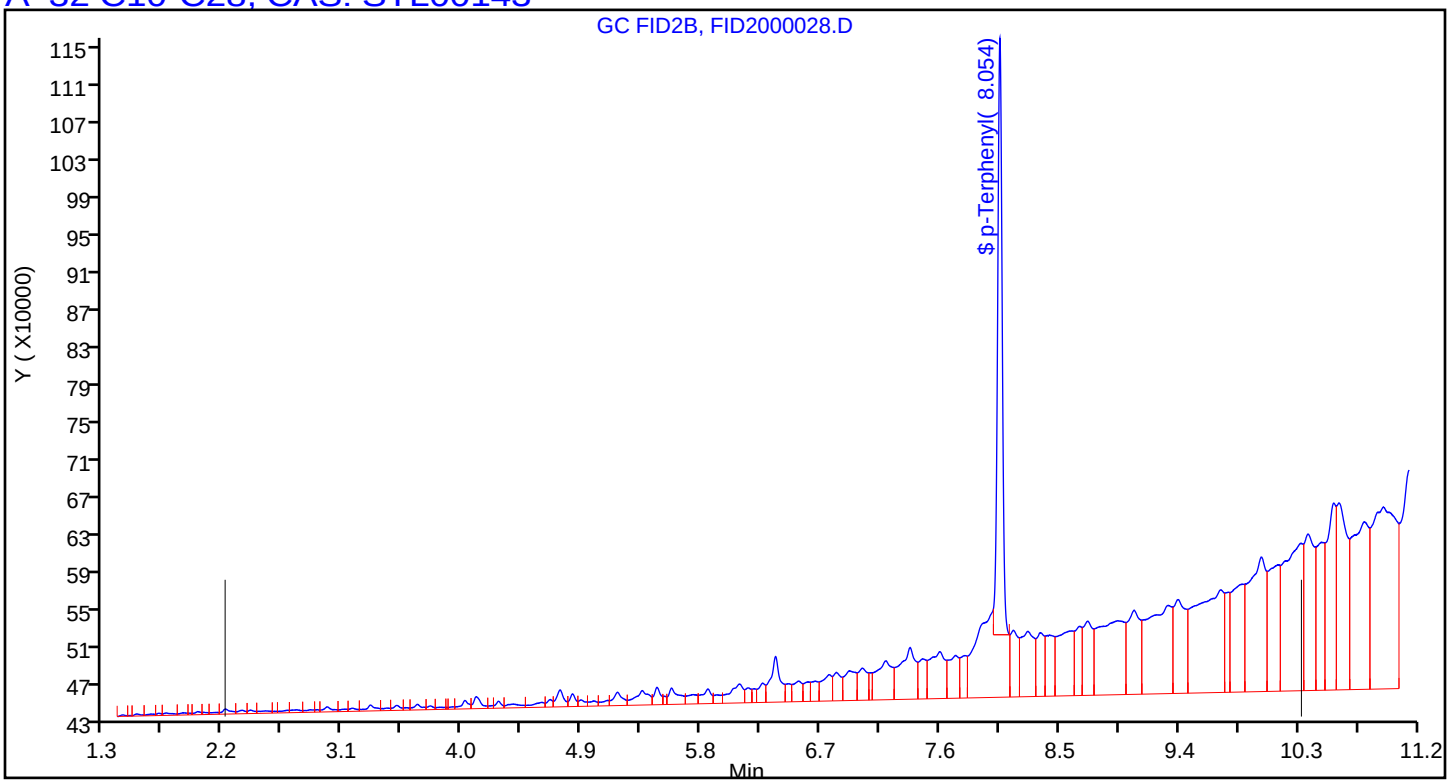
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	13.0	51.97

Report Date: 17-Jan-2019 14:01:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000028.D				
Injection Date:	17-Jan-2019 02:21:44	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-22-D	Lab Sample ID:	720-90673-22		
Client ID:	DG-AO7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	78	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

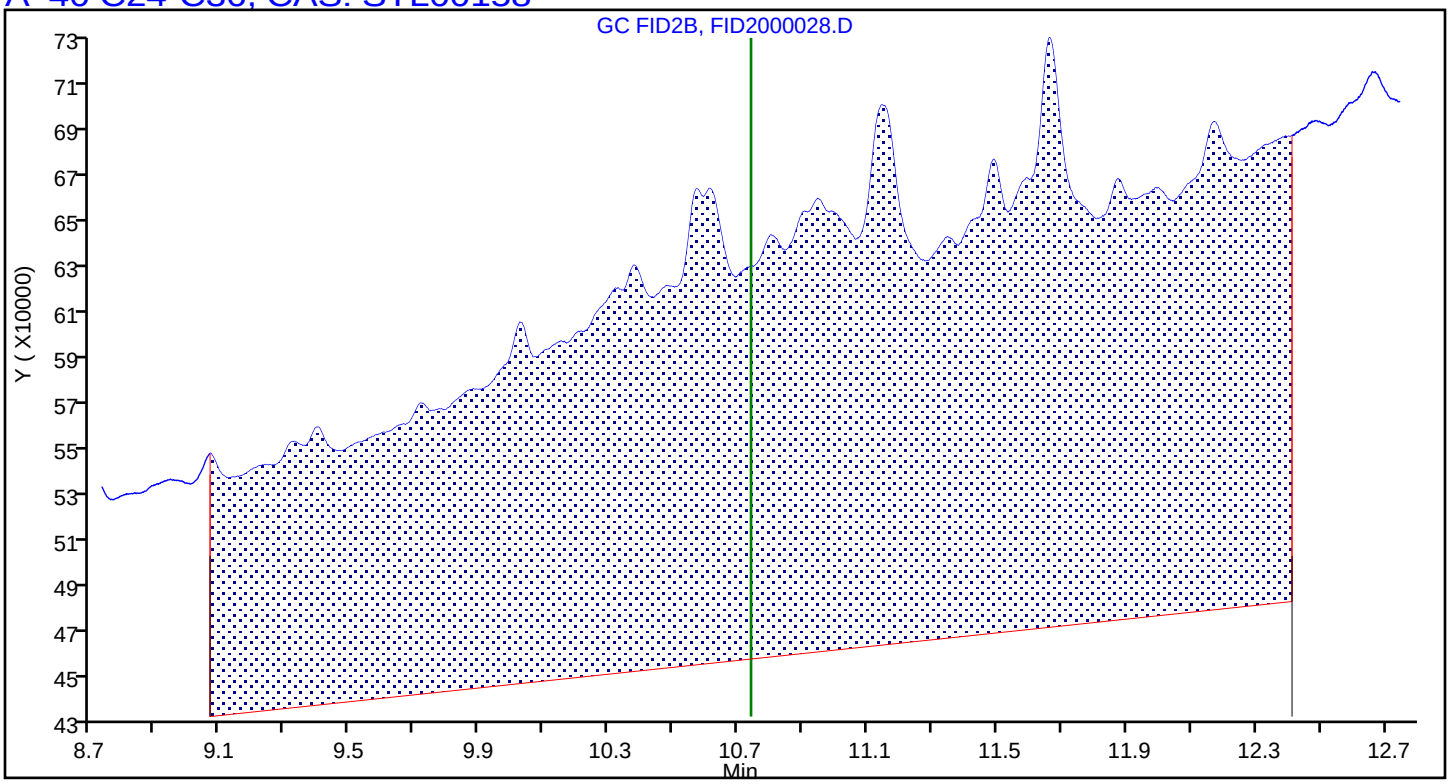


Report Date: 17-Jan-2019 14:01:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000028.D				
Injection Date:	17-Jan-2019 02:21:44	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-22-D	Lab Sample ID:	720-90673-22		
Client ID:	DG-AO7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	78	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

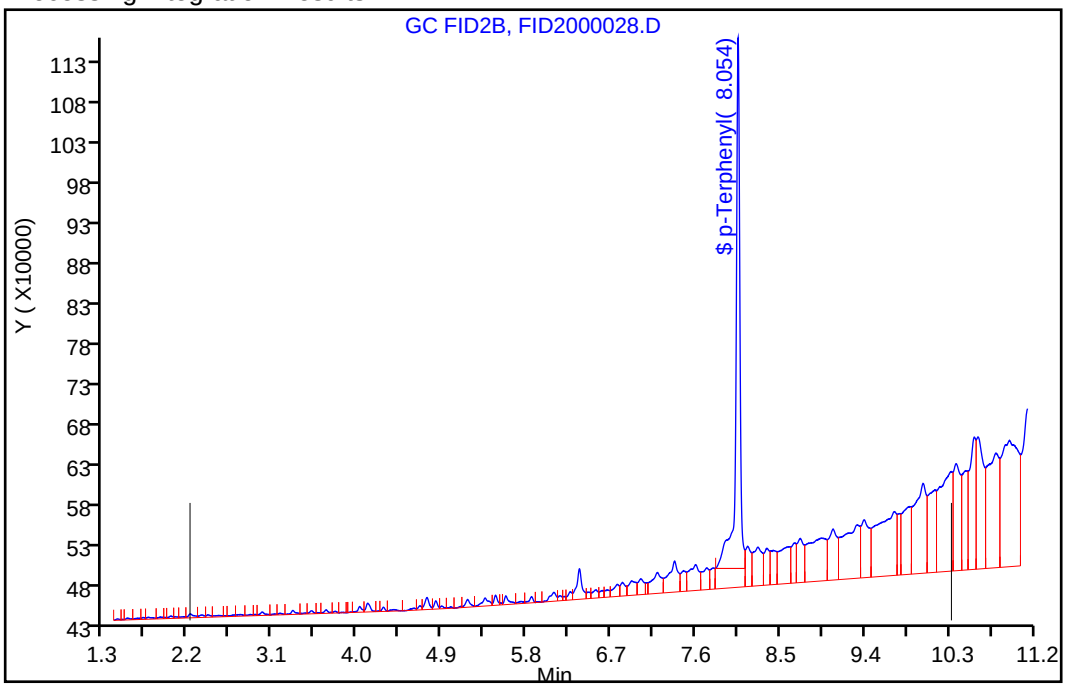
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Lims ID:	720-90673-E-22-D	Lab Sample ID:	720-90673-22		
Client ID:	DG-AO7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	78	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

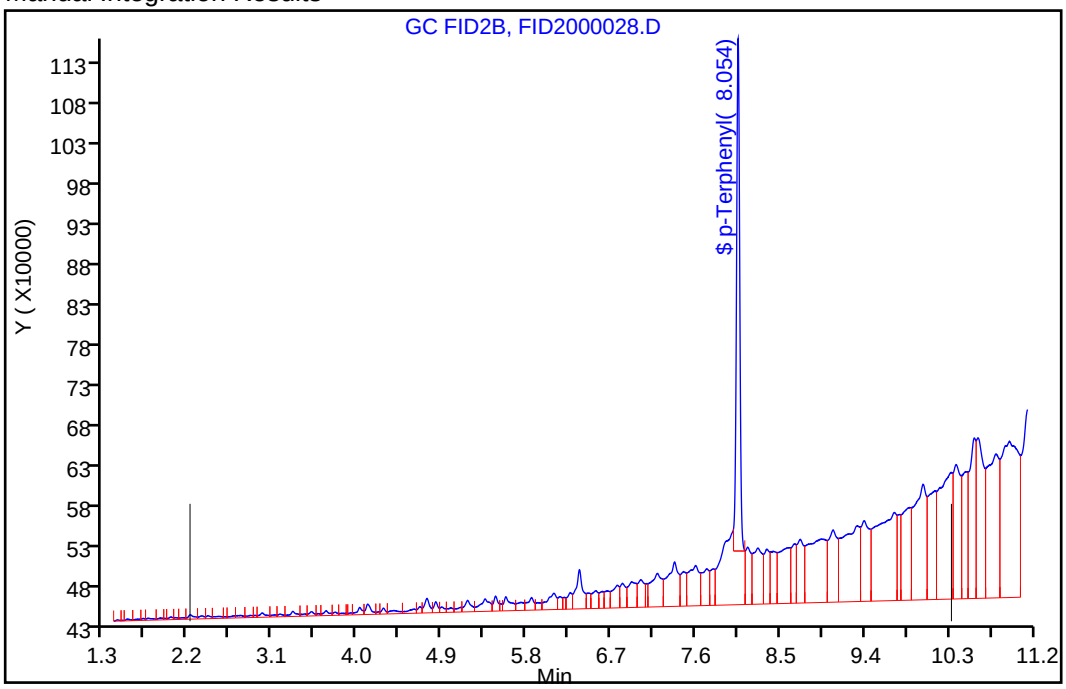
Processing Integration Results

RT: 6.27
Response: 229017541
Amount: 115.8129



Manual Integration Results

RT: 6.27
Response: 333163218
Amount: 168.4787



Reviewer: luj, 17-Jan-2019 14:00:56

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

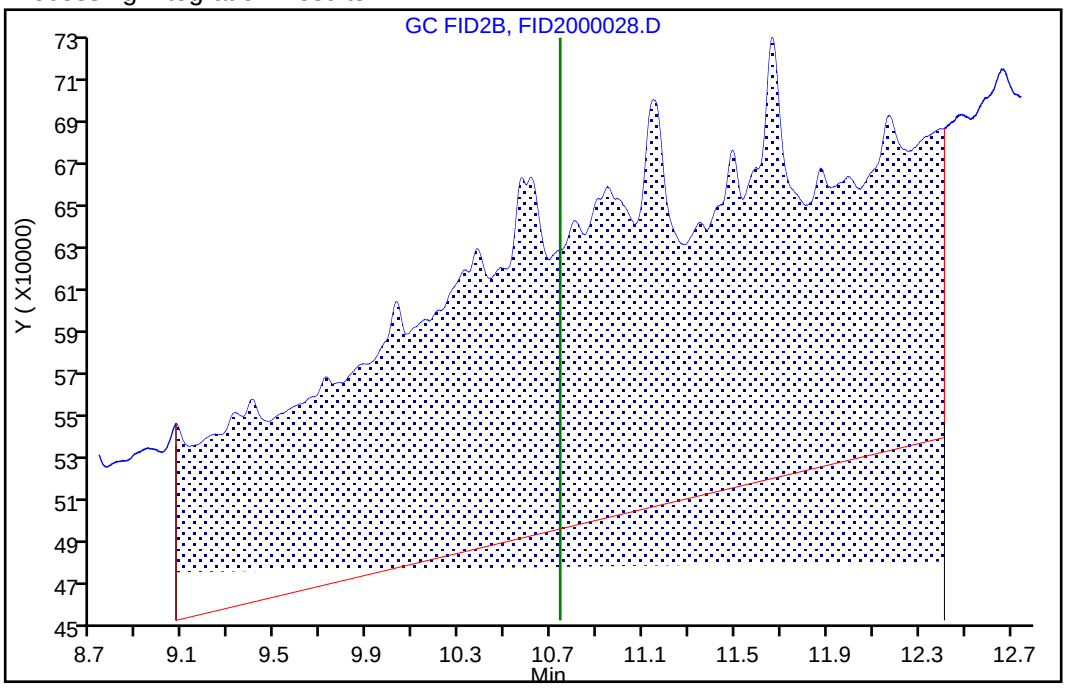
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Injection Date:	17-Jan-2019 02:21:44	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-22-D	Lab Sample ID:	720-90673-22		
Client ID:	DG-AO7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	78	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

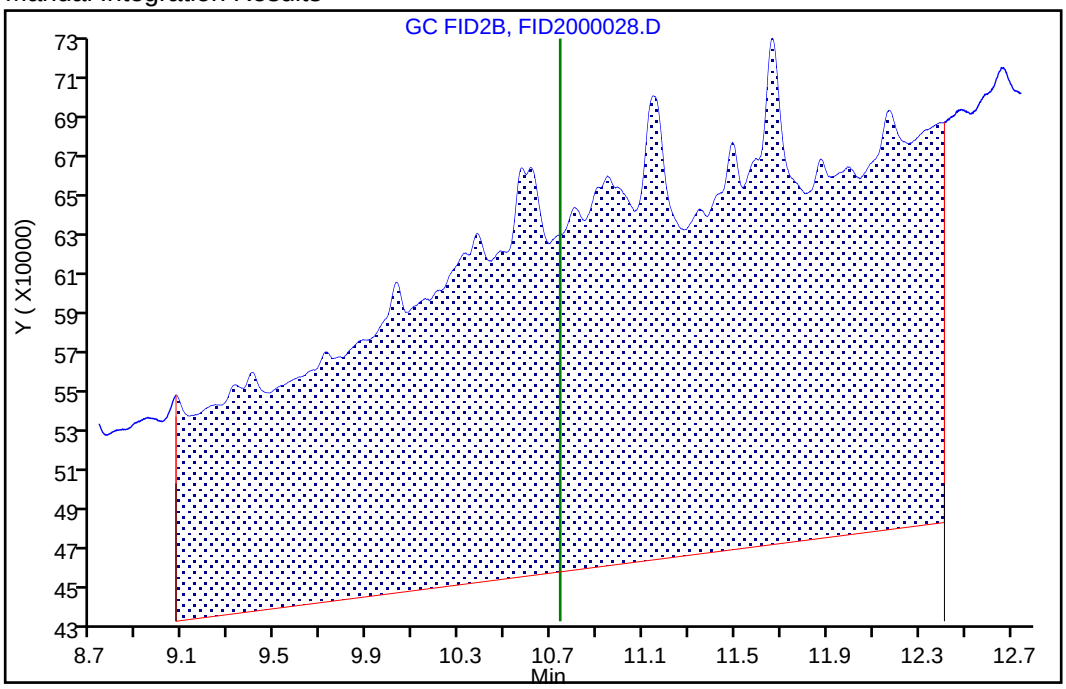
Processing Integration Results

RT: 10.74
Response: 494174149
Amount: 427.1885



Manual Integration Results

RT: 10.74
Response: 654444133
Amount: 565.7337



Reviewer: luj, 17-Jan-2019 14:00:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

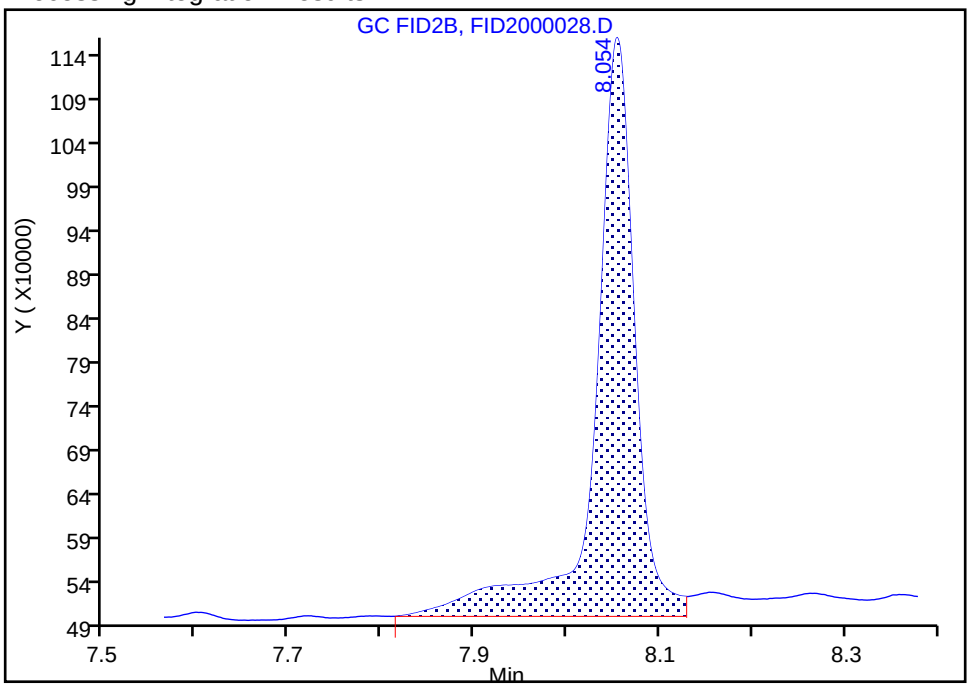
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Injection Date:	17-Jan-2019 02:21:44	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-22-D	Lab Sample ID:	720-90673-22		
Client ID:	DG-AO7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	78	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

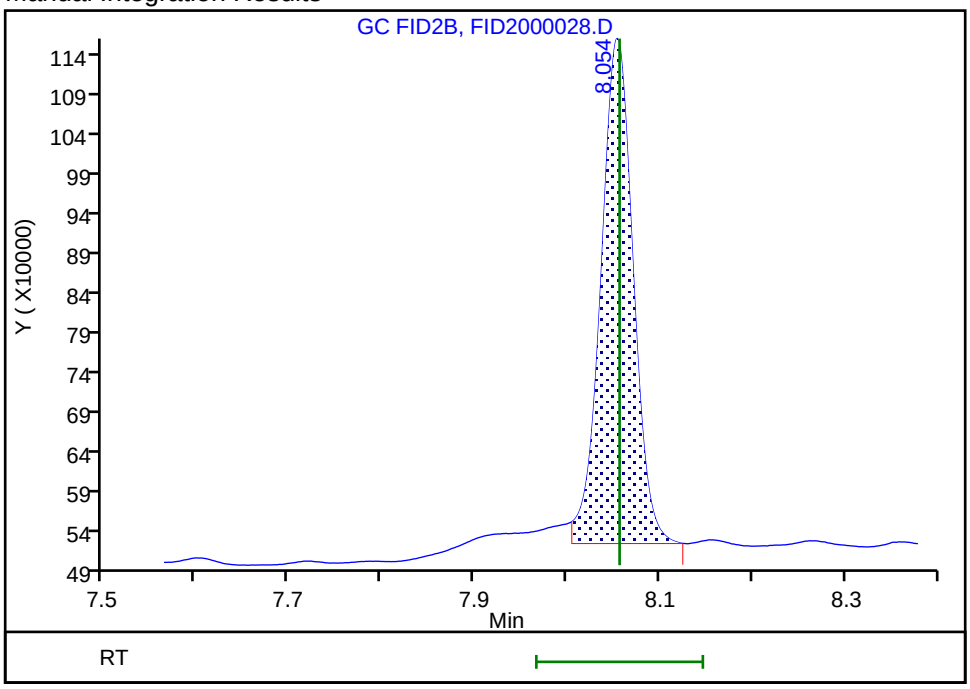
Processing Integration Results

RT: 8.05
Area: 39952358
Amount: 16.942979
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 30634072
Amount: 12.991285
Amount Units: mg/L



Reviewer: luj, 17-Jan-2019 14:00:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000030.D
Lims ID: 720-90673-E-23-D
Client ID: DG-AS7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 03:10:24 ALS Bottle#: 80 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056116-030
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:11:05 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:11:05

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.352	1.353	-0.001	102094	NC	M
	23 n-Decane	2.246	2.210	0.036	2235890	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		33242461	14.0	M
A	1 C9-C13	2.811	(1.353-4.270)		33242461	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		18029621	9.12	M
	24 Dodecane	3.661	3.658	0.003	801291	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		92301303	32.1	M
A	60 C10-C16	4.030	(2.210-5.850)		73958390	28.9	M
A	47 C9 - C18	4.060	(1.353-6.766)		124213566	54.8	M
	26 C13	4.271	4.270	0.001	932561	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		155077890	53.7	M
A	15 Kerosene	4.272	(1.353-7.191)		155077890	68.2	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		55928769	28.3	M
A	61 C10-C20	4.904	(2.210-7.598)		225690152	114.1	M
A	28 C9-C24	5.209	(1.353-9.066)		547426993	276.8	M
A	29 C9-C25	5.376	(1.353-9.398)		638427523	322.8	M
A	54 C10-C23	5.465	(2.210-8.720)		473331811	239.4	M
A	4 C10-C24	5.638	(2.210-9.066)		544156577	275.2	M
A	16 C10-C25	5.804	(2.210-9.398)		635157107	321.2	M
	45 Hexadecane	5.847	5.850	-0.003	2276112	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		711409131	359.8	M
A	67 C12-C22	6.009	(3.658-8.361)		364868351	184.5	M
A	32 C10-C28	6.269	(2.210-10.328)		925071994	467.8	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		925071994	NC	M
A	5 Diesel	6.269	(2.210-10.328)		925071994	467.8	M
A	30 C13-C22	6.315	(4.270-8.361)		352925927	178.5	M
	44 Heptadecane	6.266	6.321	-0.054	3095283	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		526126956	266.1	M
	49 n-Octadecane	6.765	6.766	-0.001	7321920	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		1948150731	846.5	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		1948150731	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		1948150731	NC	M
33 C19	7.235	7.191	0.044	13115879	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		895099949	452.6	M
A 17 C10-C36	7.312	(2.210-12.413)		1944880315	983.5	M
A 13 C9-C40	7.373	(1.353-13.393)		3251540500	1834.3	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		3251540500	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		472474299	238.9	M
62 icosane	7.592	7.598	-0.006	10294655	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		3248270084	1834.6	M
$ 34 p-Terphenyl	8.053	8.057	-0.004	29281312	12.4	
35 n-Docosane	8.352	8.361	-0.009	17672407	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		3230240463	1831.1	M
36 Tricosane	8.717	8.720	-0.003	50911114	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		3218298039	1825.9	M
37 n-Tetracosane	9.074	9.066	0.008	14818483	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		1873198037	1383.4	M
38 C25	9.406	9.398	0.008	31649995	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		3176587806	1805.9	M
46 n-Hexacosane	9.732	9.719	0.013	51869601	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		1309562222	813.4	
A 55 C23-C32	10.077	(8.720-11.433)		1098410612	1238.3	M
39 n-Octacosane	10.379	10.328	0.051	80850829	NC	M
65 C29	10.612	10.618	-0.006	43412961	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		1151061870	995.0	
A 40 C24-C36	10.740	(9.066-12.413)		1408830633	1217.9	M
A 10 C22-C40	10.877	(8.361-13.393)		1551612321	958.4	
A 50 C25-C36	10.906	(9.398-12.413)		1020994482	943.2	
A 41 C23-C40	11.057	(8.720-13.393)		1509754758	950.7	
A 8 C24-C40	11.229	(9.066-13.393)		1502124402	966.5	
56 Dotriacontane	11.424	11.433	-0.009	64869641	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		1201680356	966.0	
A 63 C29-C40	12.006	(10.618-13.393)		1104396739	967.1	
42 n-Hexatriacontane		12.413			ND	
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

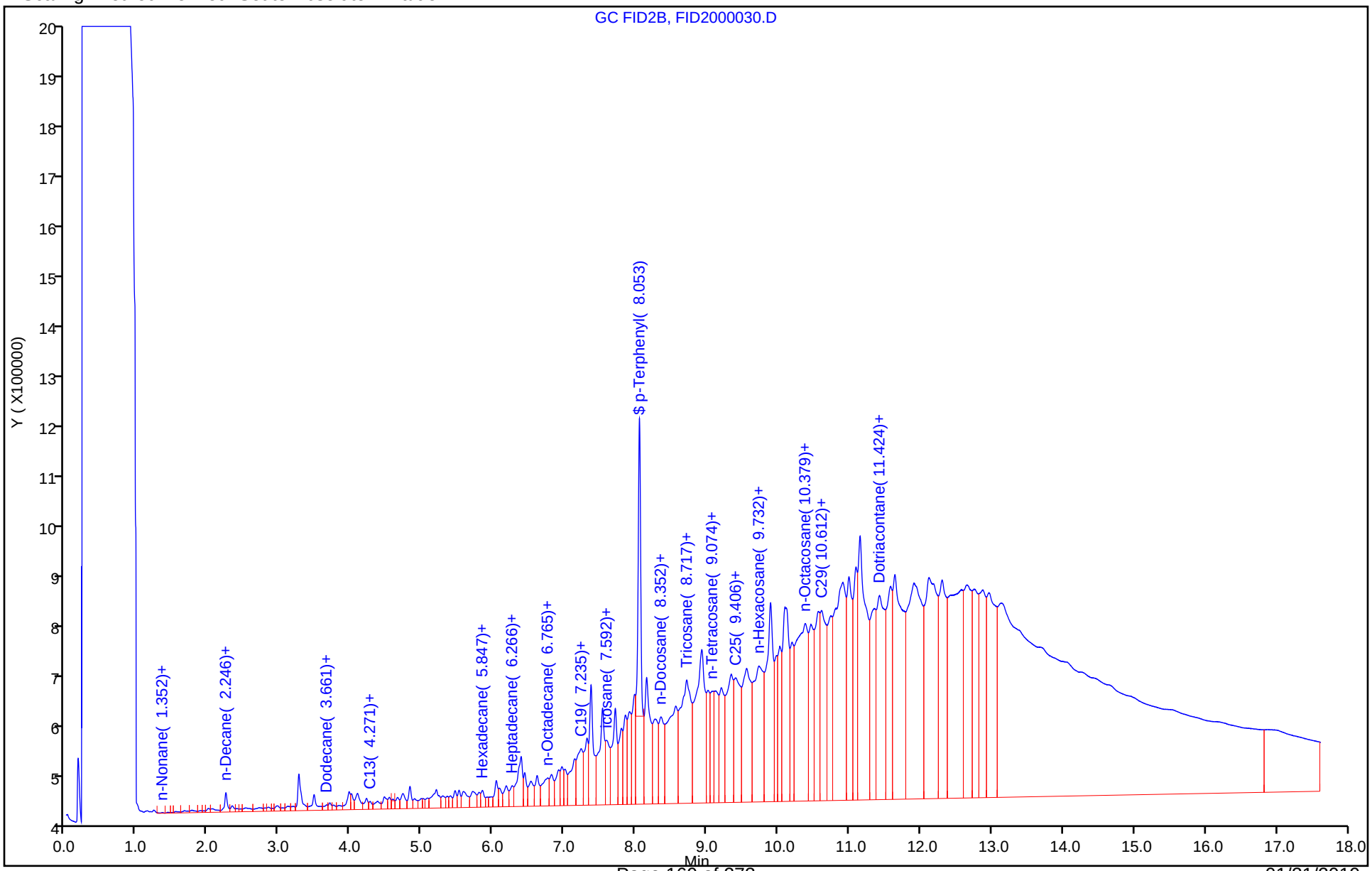
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000030.D

Injection Date:	17-Jan-2019 03:10:24	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-23-D	Lab Sample ID:	720-90673-23	Worklist Smp#:	30
Client ID:	DG-AS7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	80
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000030.D
Lims ID: 720-90673-E-23-D
Client ID: DG-AS7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 03:10:24 ALS Bottle#: 80 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056116-030
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:11:05 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:11:05

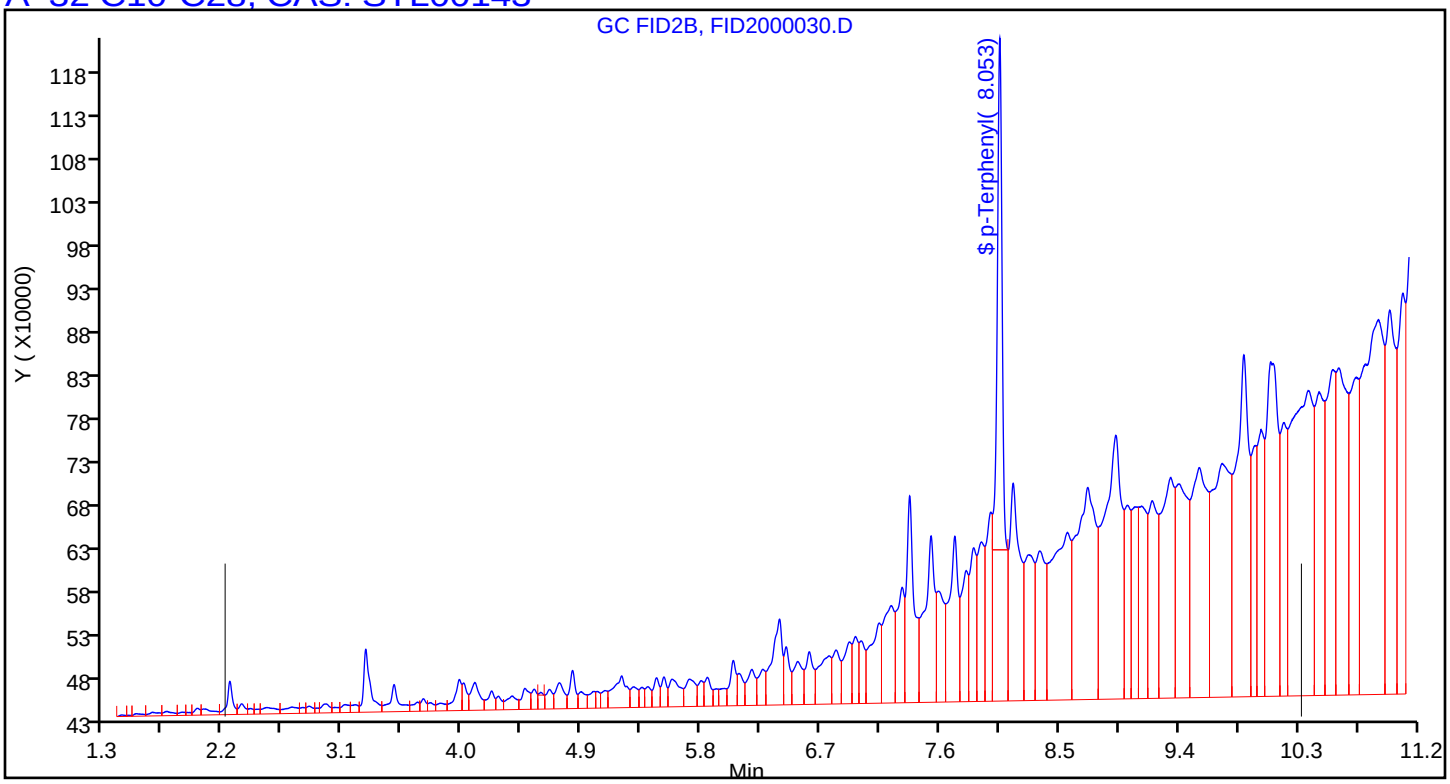
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	12.4	49.67

Report Date: 17-Jan-2019 14:11:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000030.D				
Injection Date:	17-Jan-2019 03:10:24	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-23-D	Lab Sample ID:	720-90673-23		
Client ID:	DG-AS7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	80	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

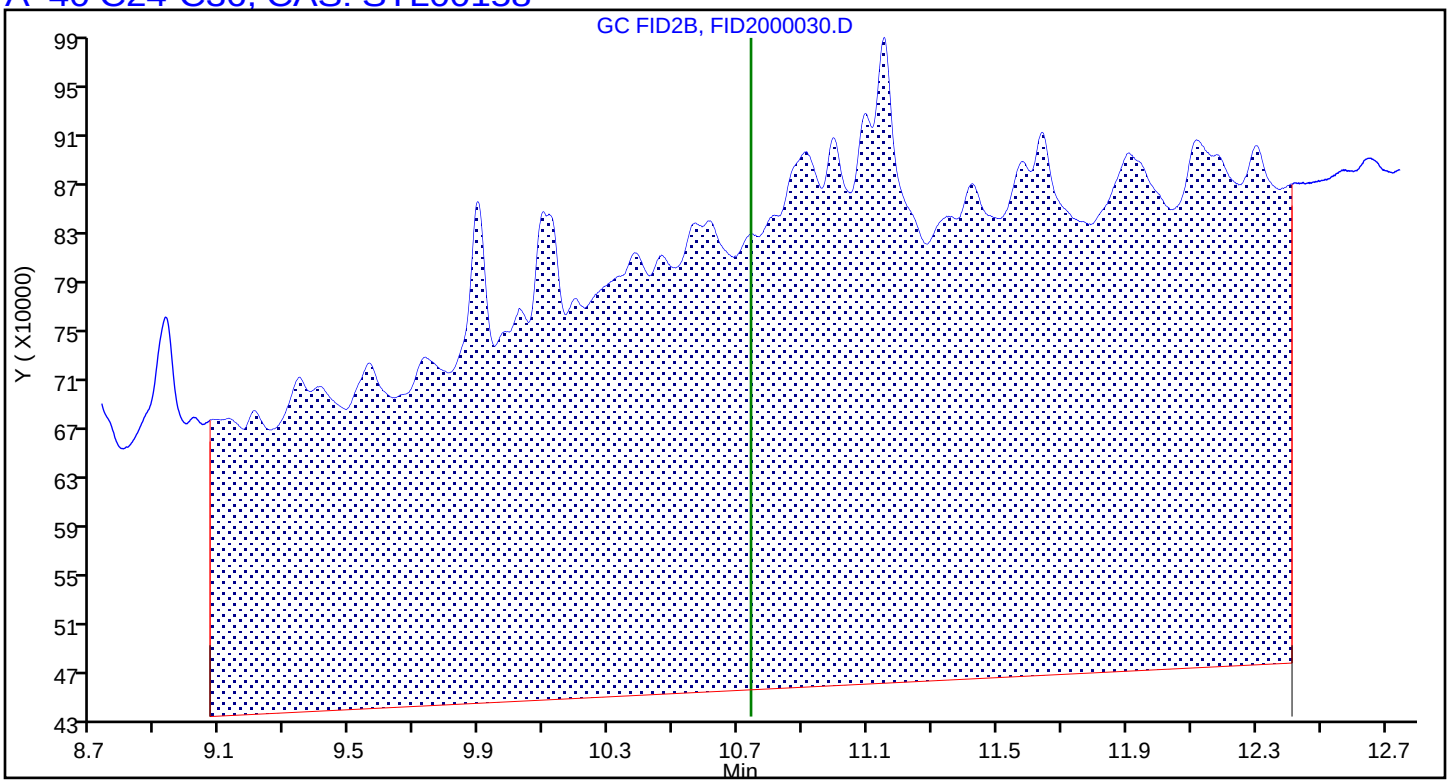


Report Date: 17-Jan-2019 14:11:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000030.D				
Injection Date:	17-Jan-2019 03:10:24	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-23-D	Lab Sample ID:	720-90673-23		
Client ID:	DG-AS7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	80	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

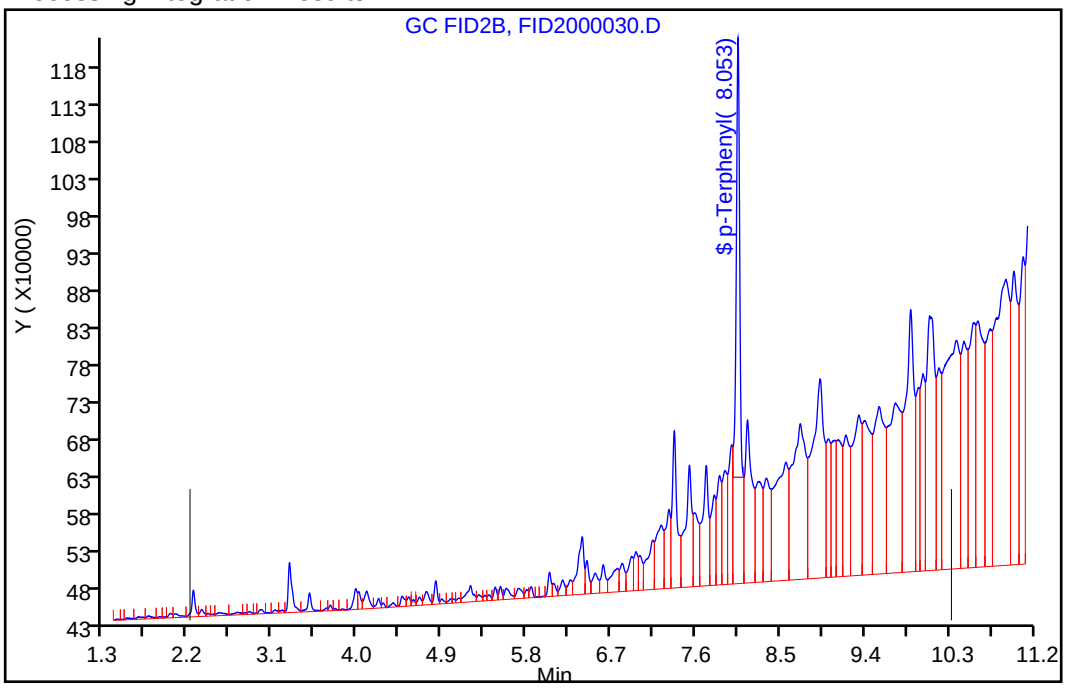
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000030.D				
Injection Date:	17-Jan-2019 03:10:24	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-23-D	Lab Sample ID:	720-90673-23		
Client ID:	DG-AS7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	80	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

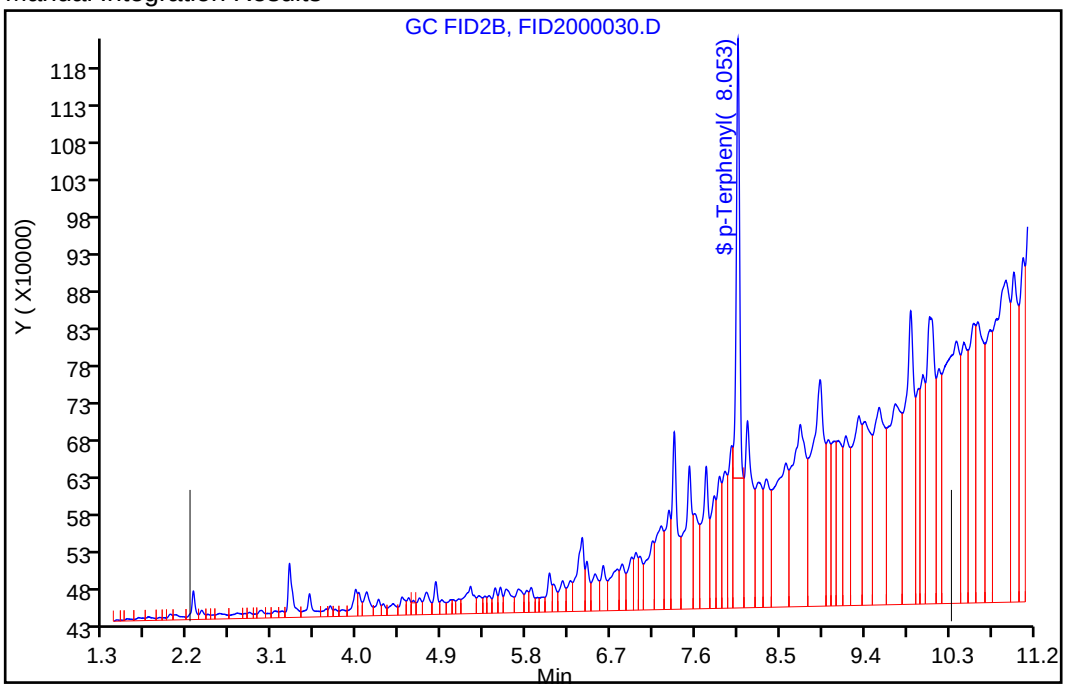
Processing Integration Results

RT: 6.27
Response: 711101371
Amount: 359.5999



Manual Integration Results

RT: 6.27
Response: 925071994
Amount: 467.8036



Reviewer: luj, 17-Jan-2019 14:10:38
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

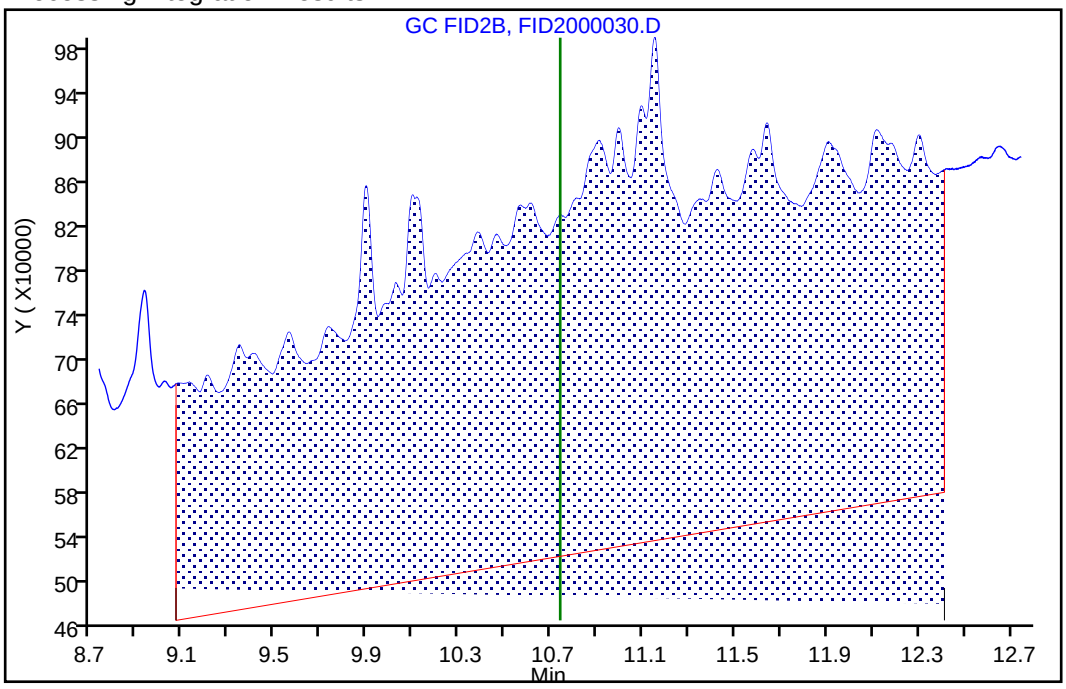
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000030.D				
Injection Date:	17-Jan-2019 03:10:24	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-23-D	Lab Sample ID:	720-90673-23		
Client ID:	DG-AS7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	80	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

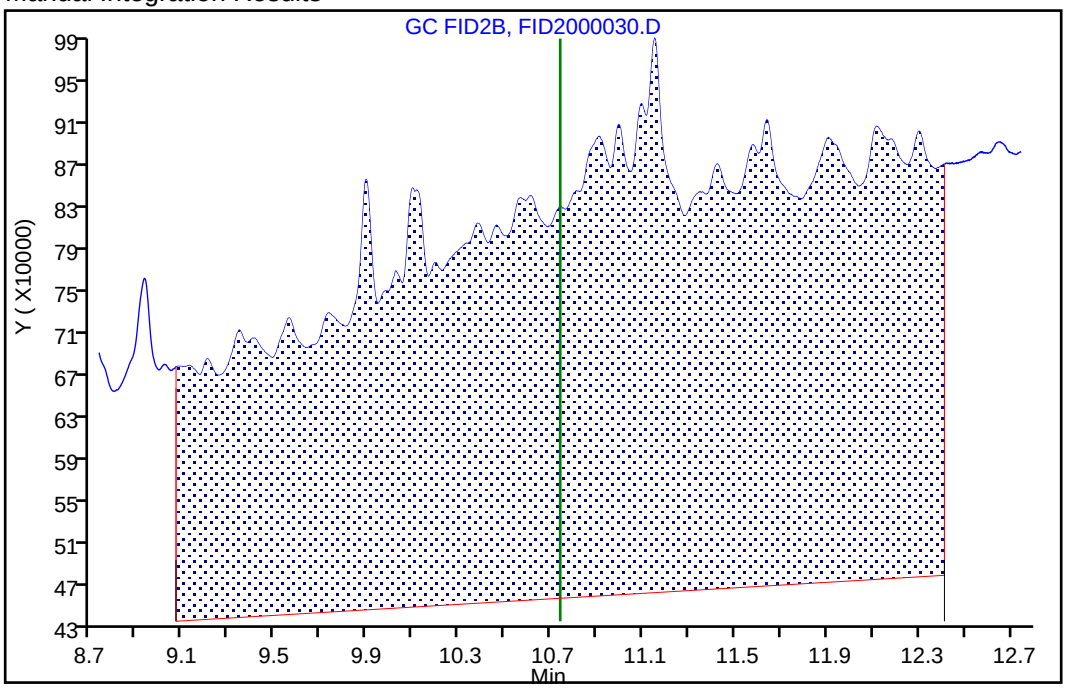
Processing Integration Results

RT: 10.74
Response: 1151061870
Amount: 995.0345



Manual Integration Results

RT: 10.74
Response: 1408830633
Amount: 1217.8625



Reviewer: luj, 17-Jan-2019 14:10:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000022.D
Lims ID: 720-90673-E-24-D
Client ID: DG-AS7S-3.5-4
Sample Type: Client
Inject. Date: 16-Jan-2019 23:55:33 ALS Bottle#: 72 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-022
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 13:28:44 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 13:28:44

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.442	1.353	0.089	51634	NC	M
	23 n-Decane	2.215	2.210	0.005	395895	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		10960362	4.60	M
A	1 C9-C13	2.811	(1.353-4.270)		10960362	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		6057310	3.06	M
	24 Dodecane	3.660	3.658	0.002	488039	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		31416059	10.9	M
A	60 C10-C16	4.030	(2.210-5.850)		23976562	9.37	M
A	47 C9 - C18	4.060	(1.353-6.766)		38129110	16.8	M
	26 C13	4.278	4.270	0.008	776643	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		47818160	16.6	M
A	15 Kerosene	4.272	(1.353-7.191)		47818160	21.0	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		17919252	9.06	M
A	61 C10-C20	4.904	(2.210-7.598)		54435955	27.5	M
A	28 C9-C24	5.209	(1.353-9.066)		86493592	43.7	M
A	29 C9-C25	5.376	(1.353-9.398)		101619650	51.4	M
A	54 C10-C23	5.465	(2.210-8.720)		75420994	38.1	M
A	4 C10-C24	5.638	(2.210-9.066)		84902607	42.9	M
A	16 C10-C25	5.804	(2.210-9.398)		100028665	50.6	M
	45 Hexadecane	5.854	5.850	0.004	1224070	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		109651827	55.5	M
A	67 C12-C22	6.009	(3.658-8.361)		62125067	31.4	M
A	32 C10-C28	6.269	(2.210-10.328)		125986610	63.7	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		125986610	NC	M
A	5 Diesel	6.269	(2.210-10.328)		125986610	63.7	M
A	30 C13-C22	6.315	(4.270-8.361)		58813000	29.7	M
	44 Heptadecane	6.363	6.321	0.043	4017218	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		78845297	39.9	M
	49 n-Octadecane	6.769	6.766	0.003	1490499	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		314621628	136.7	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		314621628	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		314621628	NC	M
33 C19	7.189	7.191	-0.002	3038868	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		116617233	59.0	M
A 17 C10-C36	7.312	(2.210-12.413)		313030643	158.3	M
A 13 C9-C40	7.373	(1.353-13.393)		379568904	214.1	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		379568904	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		60926045	30.8	M
62 icosane	7.597	7.598	-0.001	3013885	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		377977919	213.5	M
$ 34 p-Terphenyl	8.054	8.057	-0.003	75365499	32.0	M
35 n-Docosane	8.363	8.361	0.002	3235289	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		371920609	210.8	M
36 Tricosane	8.723	8.720	0.003	5076231	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		368608542	209.1	M
37 n-Tetracosane	9.066	9.066	0.000	4245588	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		289054081	213.5	M
38 C25	9.397	9.398	-0.001	5378559	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		354001357	201.3	M
46 n-Hexacosane	9.719	9.719	0.000	5643513	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		203726162	126.5	
A 55 C23-C32	10.077	(8.720-11.433)		136491342	153.9	M
39 n-Octacosane	10.377	10.328	0.049	12850749	NC	M
65 C29	10.612	10.618	-0.006	20092388	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		199714475	172.6	
A 40 C24-C36	10.740	(9.066-12.413)		199714475	172.6	
A 10 C22-C40	10.877	(8.361-13.393)		253064294	156.3	
A 50 C25-C36	10.906	(9.398-12.413)		187417014	173.1	
A 41 C23-C40	11.057	(8.720-13.393)		250386391	157.7	
A 8 C24-C40	11.229	(9.066-13.393)		246558669	158.6	
56 Dotriacontane	11.492	11.433	0.059	19367199	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		215619236	173.3	
A 63 C29-C40	12.006	(10.618-13.393)		199627498	174.8	
42 n-Hexatriacontane	12.380	12.413	-0.033	6352063	NC	M
43 C40	13.385	13.393	-0.008	12953124	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

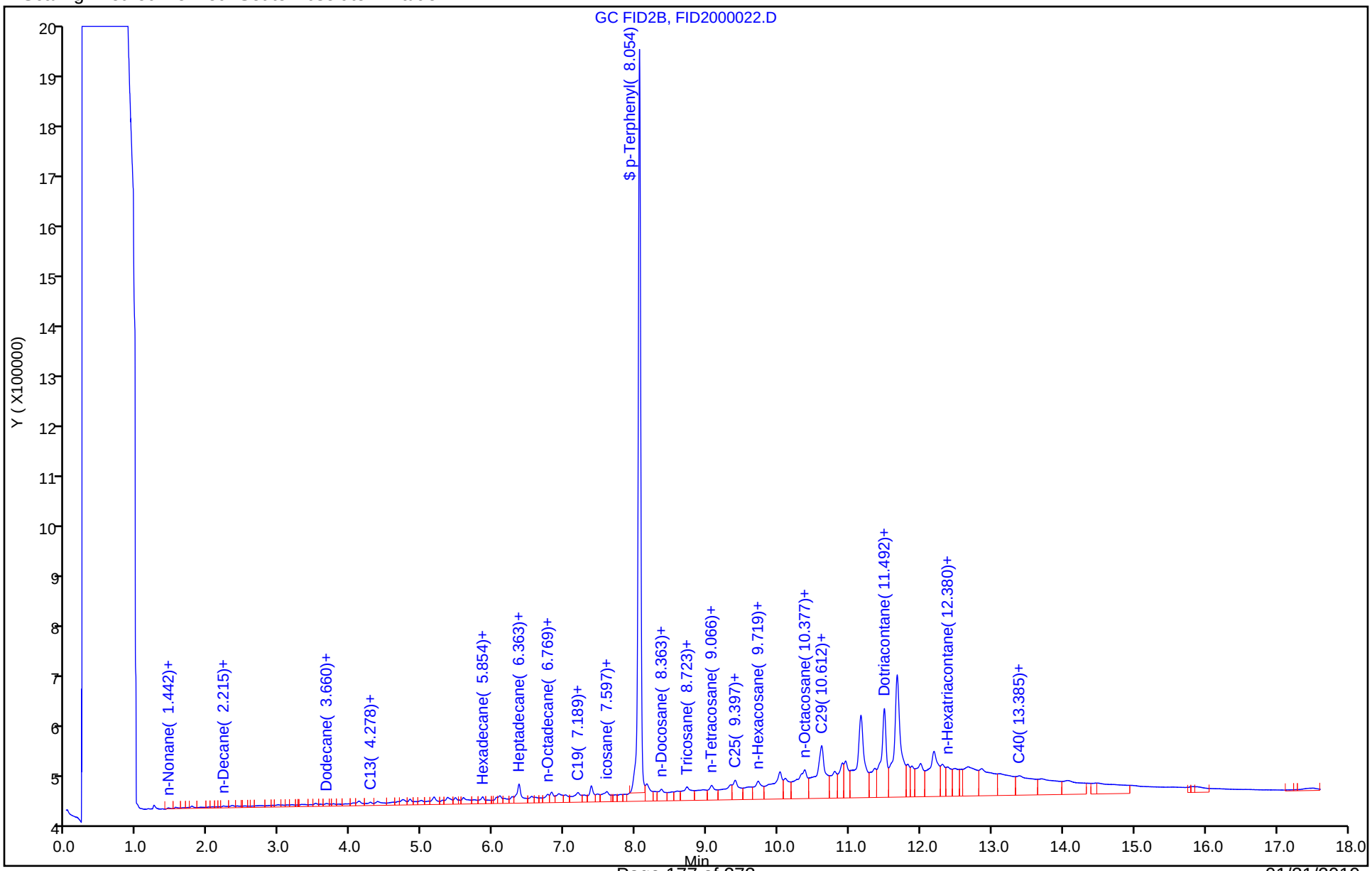
Report Date: 17-Jan-2019 13:28:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000022.D

Injection Date:	16-Jan-2019 23:55:33	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-24-D	Lab Sample ID:	720-90673-24	Worklist Smp#:	22
Client ID:	DG-AS7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	72
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000022.D
Lims ID: 720-90673-E-24-D
Client ID: DG-AS7S-3.5-4
Sample Type: Client
Inject. Date: 16-Jan-2019 23:55:33 ALS Bottle#: 72 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056116-022
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 13:28:44 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 13:28:44

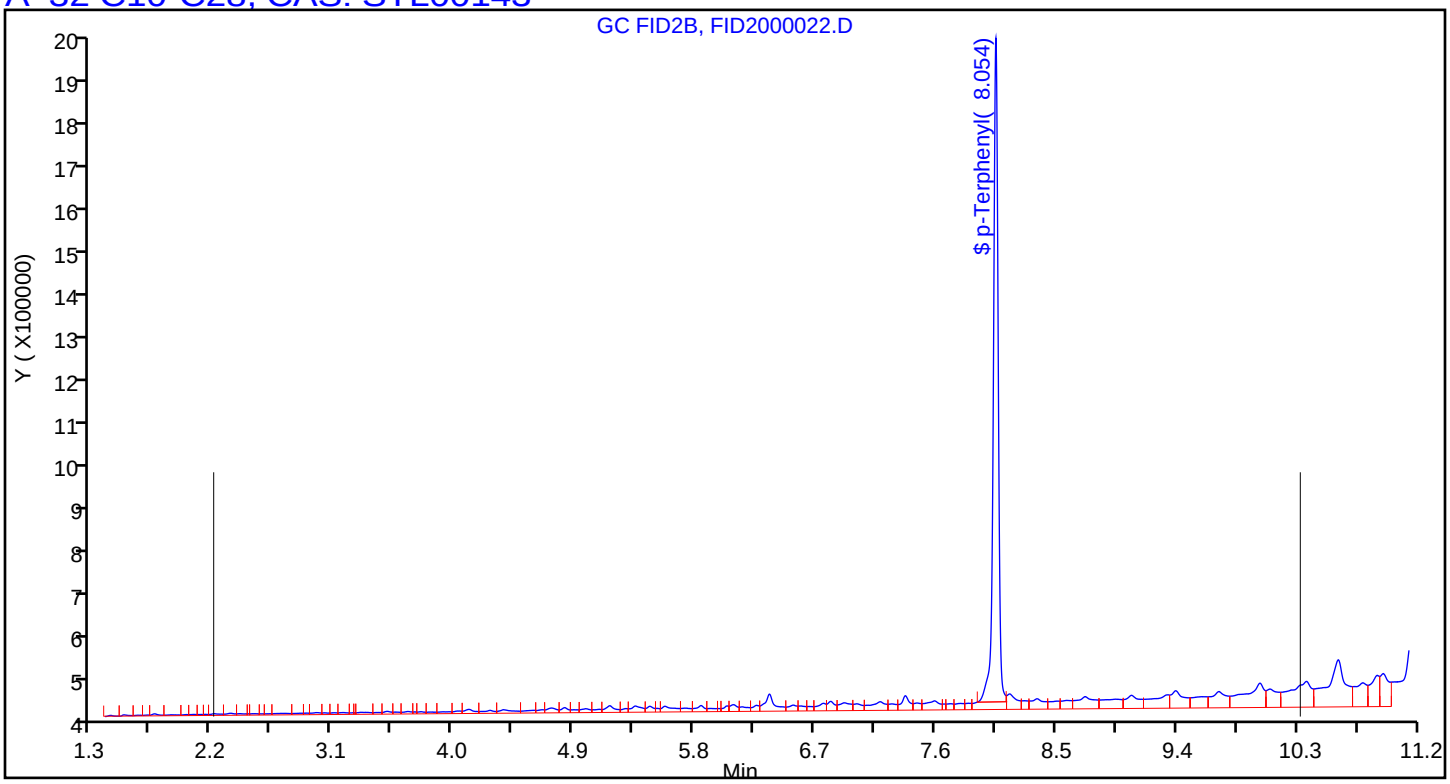
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	32.0	127.84

Report Date: 17-Jan-2019 13:28:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000022.D				
Injection Date:	16-Jan-2019 23:55:33	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-24-D	Lab Sample ID:	720-90673-24		
Client ID:	DG-AS7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

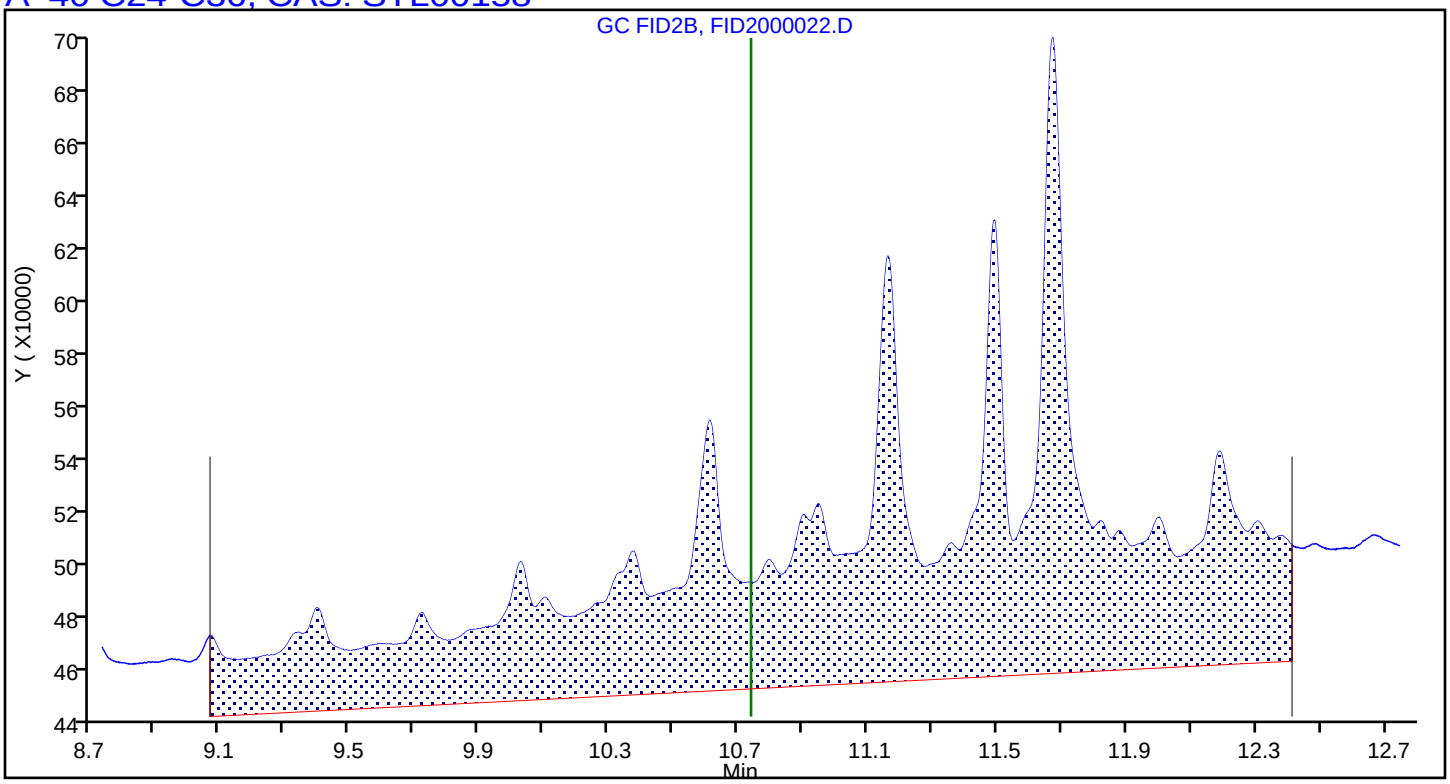


Report Date: 17-Jan-2019 13:28:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000022.D				
Injection Date:	16-Jan-2019 23:55:33	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-24-D	Lab Sample ID:	720-90673-24		
Client ID:	DG-AS7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

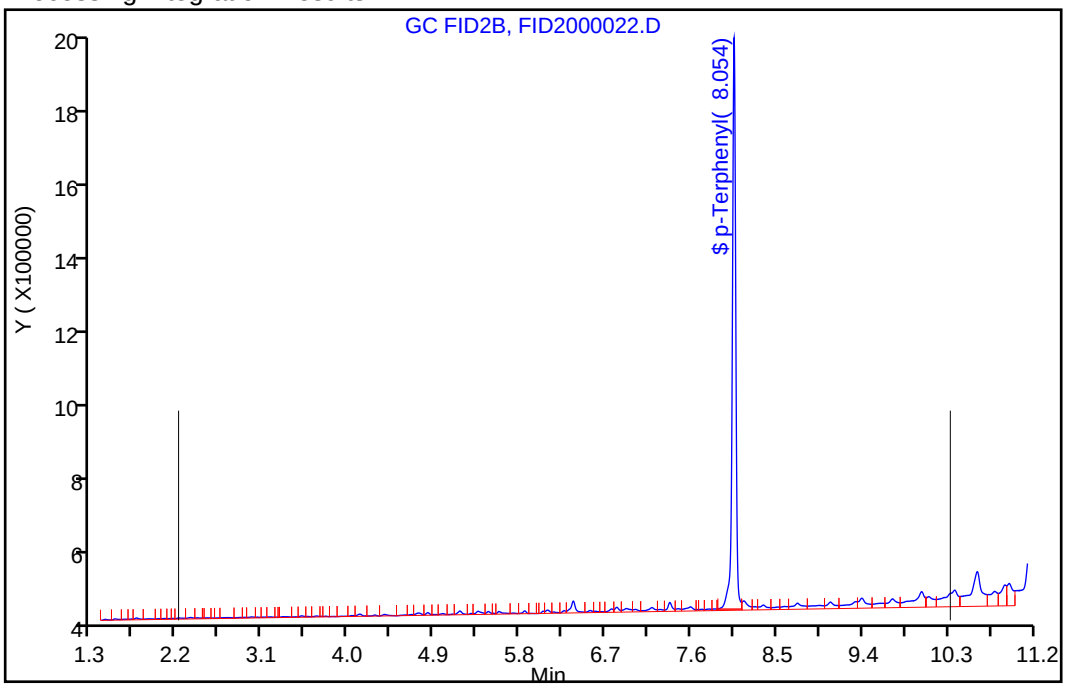
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Injection Date:	16-Jan-2019 23:55:33	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-24-D	Lab Sample ID:	720-90673-24		
Client ID:	DG-AS7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

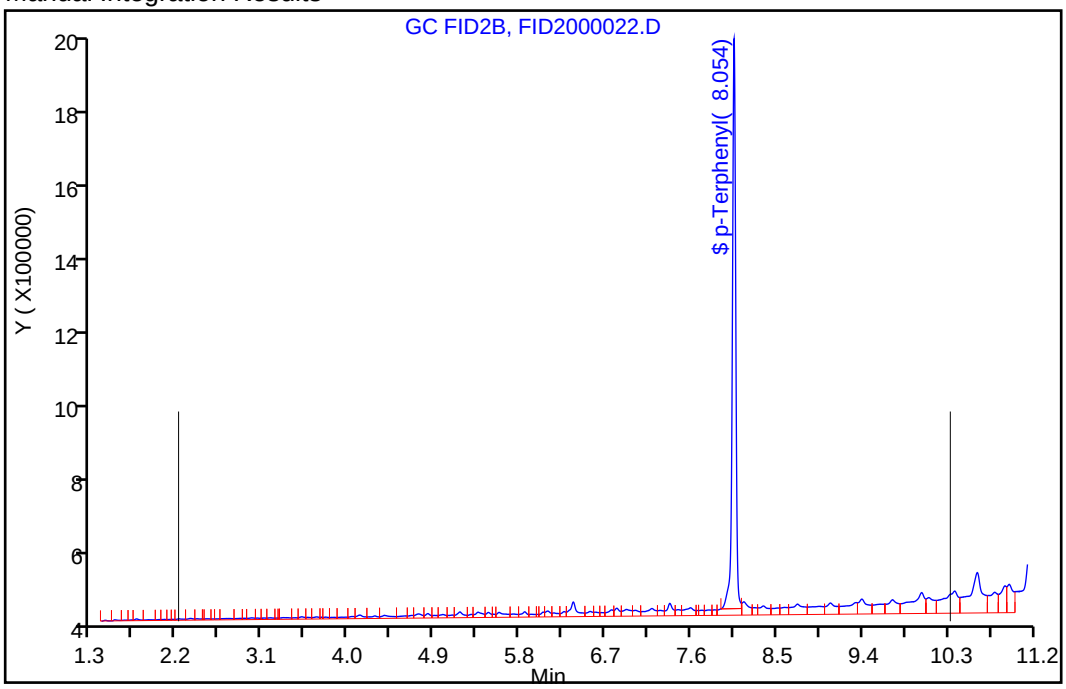
Processing Integration Results

RT: 6.27
Response: 55230599
Amount: 27.929796



Manual Integration Results

RT: 6.27
Response: 125986610
Amount: 63.710703



Reviewer: luj, 17-Jan-2019 13:28:38
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

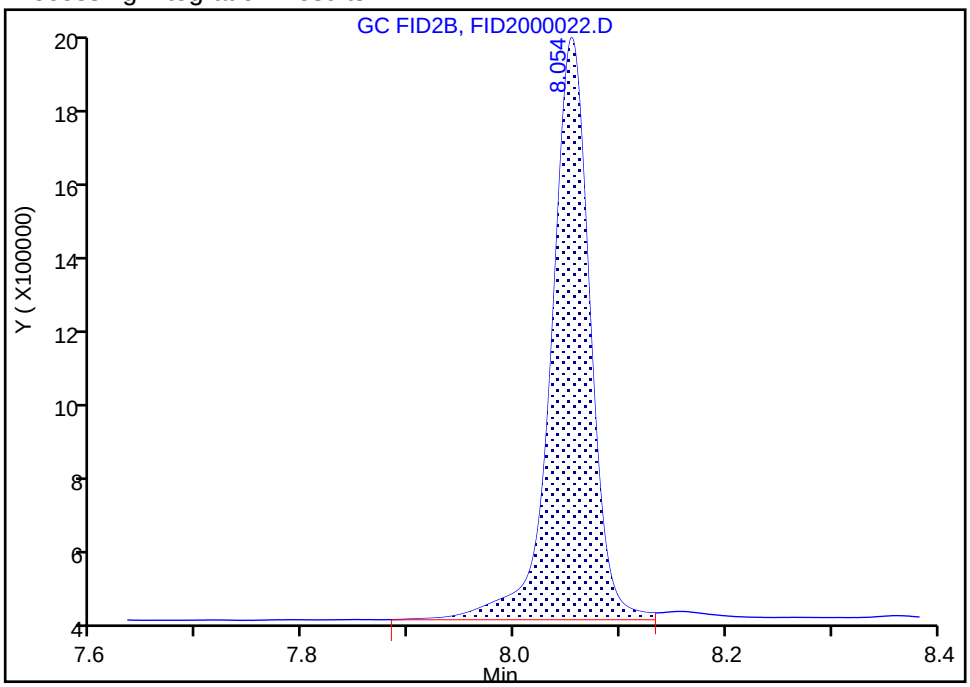
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000022.D				
Injection Date:	16-Jan-2019 23:55:33	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-24-D	Lab Sample ID:	720-90673-24		
Client ID:	DG-AS7S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	72	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

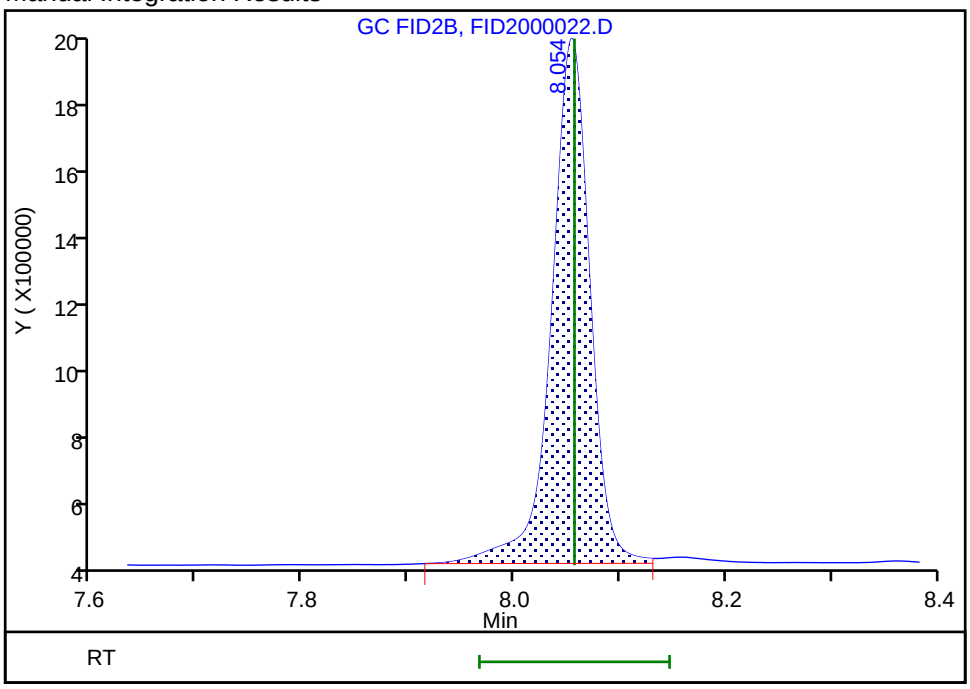
Processing Integration Results

RT: 8.05
Area: 76370850
Amount: 32.387319
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 75365499
Amount: 31.960970
Amount Units: mg/L



Reviewer: luj, 17-Jan-2019 13:28:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000029.D
Lims ID: 720-90673-E-25-D
Client ID: DG-AU7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 02:46:16 ALS Bottle#: 79 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056116-029
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:02:44 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:02:44

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.353			ND	
	23 n-Decane	2.212	2.210	0.002	160197	NC	M
A	21 Stoddard Solvent	2.811	(1.353-4.270)		8448857	3.55	M
A	1 C9-C13	2.811	(1.353-4.270)		8448857	NC	M
A	57 C10-C12	2.934	(2.210-3.658)		4137553	2.09	M
	24 Dodecane	3.664	3.658	0.006	396713	NC	M
A	3 C9 - C17	3.837	(1.353-6.321)		32476566	11.3	M
A	60 C10-C16	4.030	(2.210-5.850)		25777377	10.1	M
A	47 C9 - C18	4.060	(1.353-6.766)		51474530	22.7	M
	26 C13	4.270	4.270	0.000	360191	NC	M
A	25 C9-C19	4.272	(1.353-7.191)		71613270	24.8	M
A	15 Kerosene	4.272	(1.353-7.191)		71613270	31.5	M
$	27 n-Decanoic Acid (Surr)		4.618			ND	U
A	59 C12-C16	4.754	(3.658-5.850)		21639824	10.9	M
A	61 C10-C20	4.904	(2.210-7.598)		109077729	55.2	M
A	28 C9-C24	5.209	(1.353-9.066)		371144365	187.7	M
A	29 C9-C25	5.376	(1.353-9.398)		465423048	235.4	M
A	54 C10-C23	5.465	(2.210-8.720)		294572670	149.0	M
A	4 C10-C24	5.638	(2.210-9.066)		370106535	187.2	M
A	16 C10-C25	5.804	(2.210-9.398)		464385218	234.8	M
	45 Hexadecane	5.848	5.850	-0.002	1875583	NC	M
A	14 C10-C26	5.965	(2.210-9.719)		527581872	266.8	M
A	67 C12-C22	6.009	(3.658-8.361)		201767989	102.0	M
A	32 C10-C28	6.269	(2.210-10.328)		725813811	367.0	M
A	12 Unknown Hydrocarbons	6.269	(2.210-10.328)		725813811	NC	M
A	5 Diesel	6.269	(2.210-10.328)		725813811	367.0	M
A	30 C13-C22	6.315	(4.270-8.361)		198494515	100.4	M
	44 Heptadecane	6.363	6.321	0.043	6044048	NC	M
A	31 C12-C24	6.362	(3.658-9.066)		365968982	185.1	M
	49 n-Octadecane	6.763	6.766	-0.003	4889355	NC	M
A	52 Mineral oil	6.883	(1.353-12.413)		2000941596	869.4	M
A	11 Bunker Range Organics (C9-	6.883	(1.353-12.413)		2000941596	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.883	(1.353-12.413)		2000941596	NC	M
33 C19	7.194	7.191	0.003	4518945	NC	M
A 64 C13-C28	7.299	(4.270-10.328)		718402784	363.3	M
A 17 C10-C36	7.312	(2.210-12.413)		1999903766	1011.3	M
A 13 C9-C40	7.373	(1.353-13.393)		2732322290	1541.4	M
A 68 Crude Oil Range Organics (	7.373	(1.353-13.393)		2732322290	NC	M
A 58 C16-C24	7.458	(5.850-9.066)		346204741	175.1	M
62 icosane	7.601	7.598	0.003	8427267	NC	M
A 6 C10-C40	7.802	(2.210-13.393)		2731284460	1542.6	M
$ 34 p-Terphenyl	8.053	8.057	-0.004	33144467	14.1	
35 n-Docosane	8.363	8.361	0.002	32397598	NC	M
A 18 C12-C40	8.526	(3.658-13.393)		2727146907	1545.9	M
36 Tricosane	8.722	8.720	0.002	20662842	NC	M
A 66 C13-C40	8.831	(4.270-13.393)		2723873433	1545.4	M
37 n-Tetracosane	9.092	9.066	0.026	31717660	NC	M
A 2 C16-C36 ORO	9.132	(5.850-12.413)		1976001972	1459.3	M
38 C25	9.421	9.398	0.023	30418110	NC	M
A 19 C16-C40	9.622	(5.850-13.393)		2707382666	1539.2	M
46 n-Hexacosane	9.759	9.719	0.040	69177915	NC	M
A 20 C19-C36	9.802	(7.191-12.413)		1483978992	921.8	
A 55 C23-C32	10.077	(8.720-11.433)		1116117416	1258.2	M
39 n-Octacosane	10.379	10.328	0.051	118766242	NC	M
65 C29	10.617	10.618	-0.001	86556706	NC	M
A 7 Motor Oil	10.740	(9.066-12.413)		1371862739	1185.9	
A 40 C24-C36	10.740	(9.066-12.413)		1614857316	1396.0	M
A 10 C22-C40	10.877	(8.361-13.393)		1923883054	1188.4	
A 50 C25-C36	10.906	(9.398-12.413)		1264947217	1168.5	
A 41 C23-C40	11.057	(8.720-13.393)		1884847195	1186.9	
A 8 C24-C40	11.229	(9.066-13.393)		1879110745	1209.0	
56 Dotriacontane	11.425	11.433	-0.008	40716471	NC	M
A 51 C28-C40	11.861	(10.328-13.393)		1570324972	1262.4	
A 63 C29-C40	12.006	(10.618-13.393)		1457372140	1276.2	
42 n-Hexatriacontane		12.413			ND	
43 C40		13.393			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

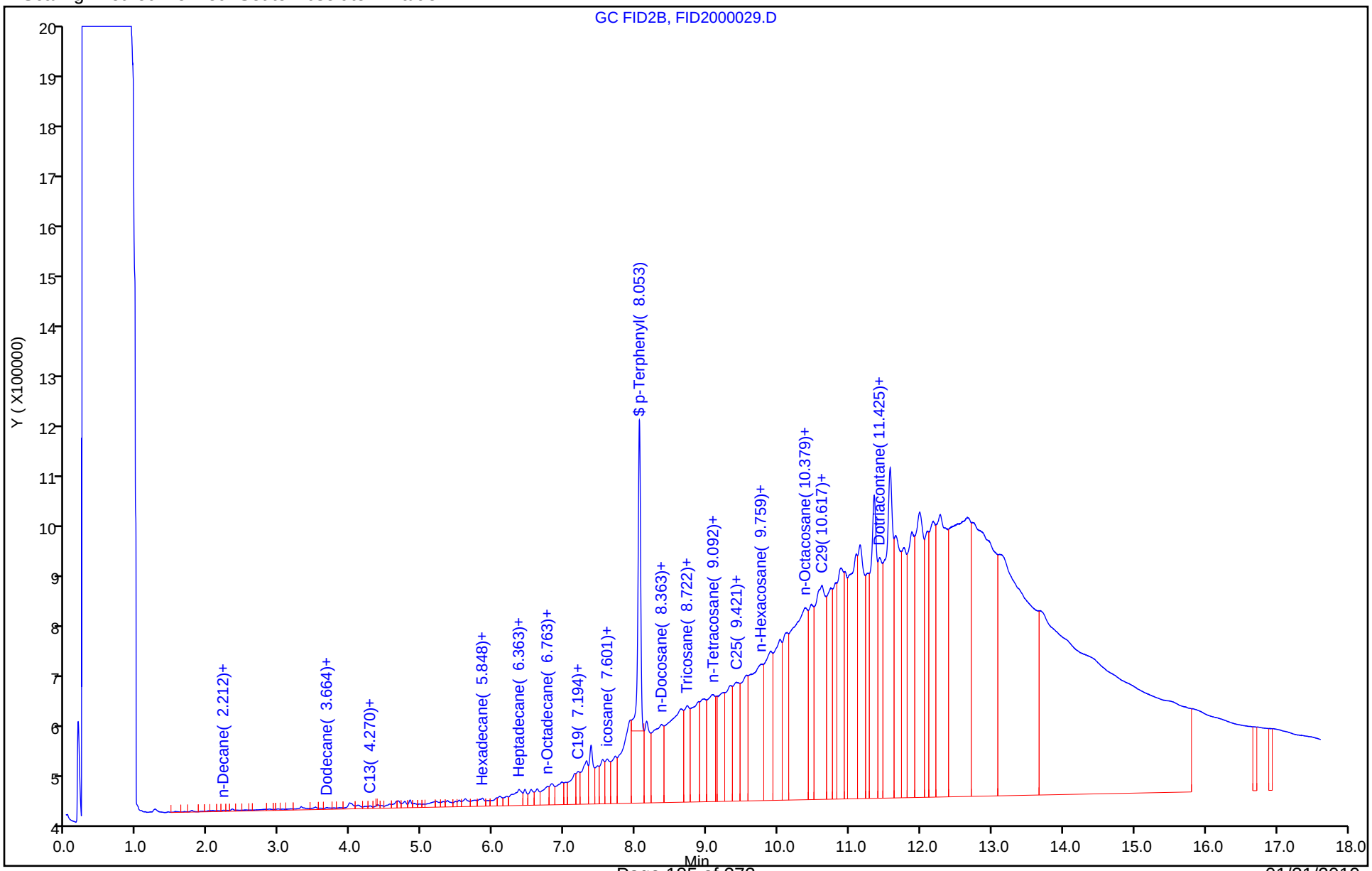
Report Date: 17-Jan-2019 14:02:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000029.D

Injection Date:	17-Jan-2019 02:46:16	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-25-D	Lab Sample ID:	720-90673-25	Worklist Smp#:	29
Client ID:	DG-AU7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	79
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000029.D
Lims ID: 720-90673-E-25-D
Client ID: DG-AU7S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 02:46:16 ALS Bottle#: 79 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056116-029
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\DRO6_B.m
Limit Group: DRO
Last Update: 17-Jan-2019 14:02:44 Calib Date: 16-Jan-2019 21:53:41
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000017.D

Column 1 : Det: GC FID1A
Process Host: CTX0323

First Level Reviewer: luj Date: 17-Jan-2019 14:02:44

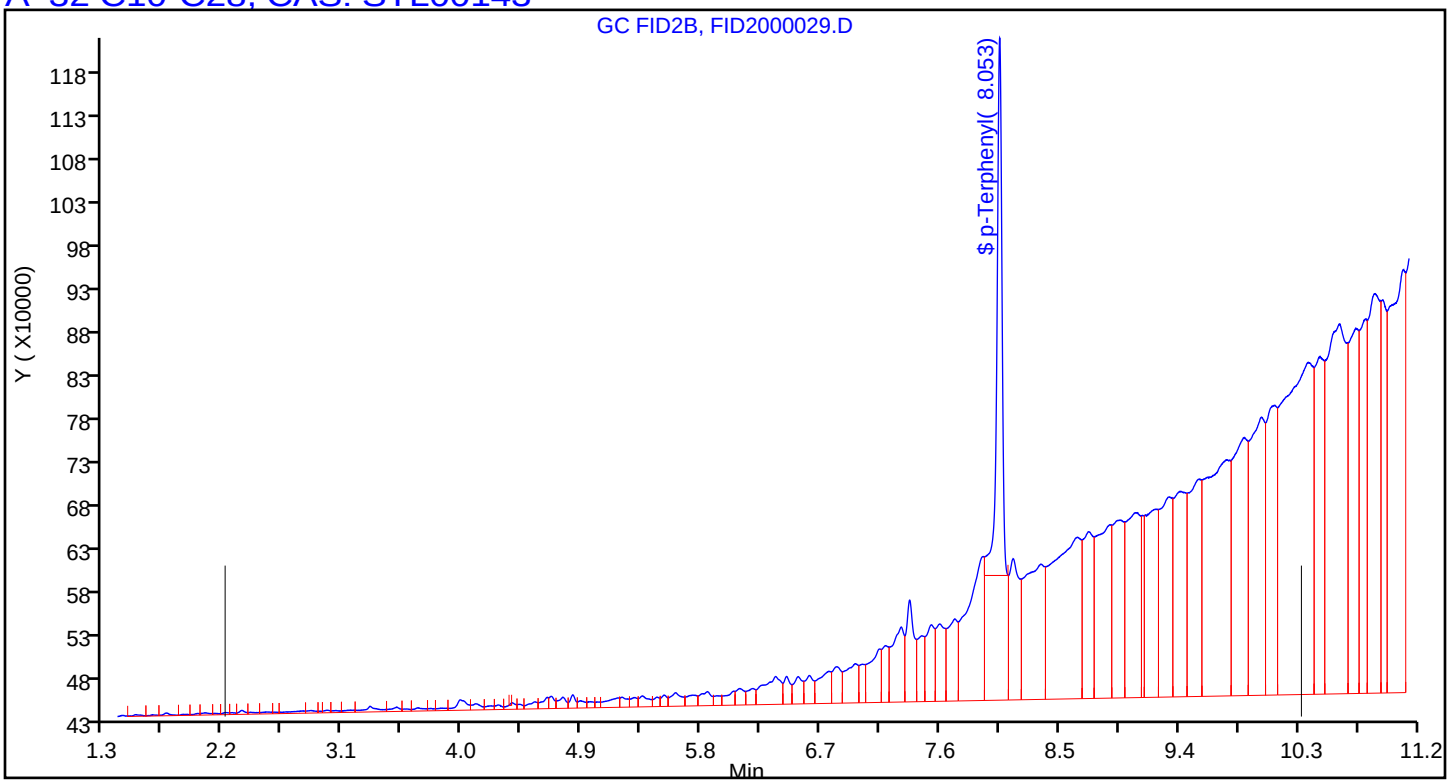
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	14.1	56.22

Report Date: 17-Jan-2019 14:02:49 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000029.D				
Injection Date:	17-Jan-2019 02:46:16	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-25-D	Lab Sample ID:	720-90673-25		
Client ID:	DG-AU7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	79	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

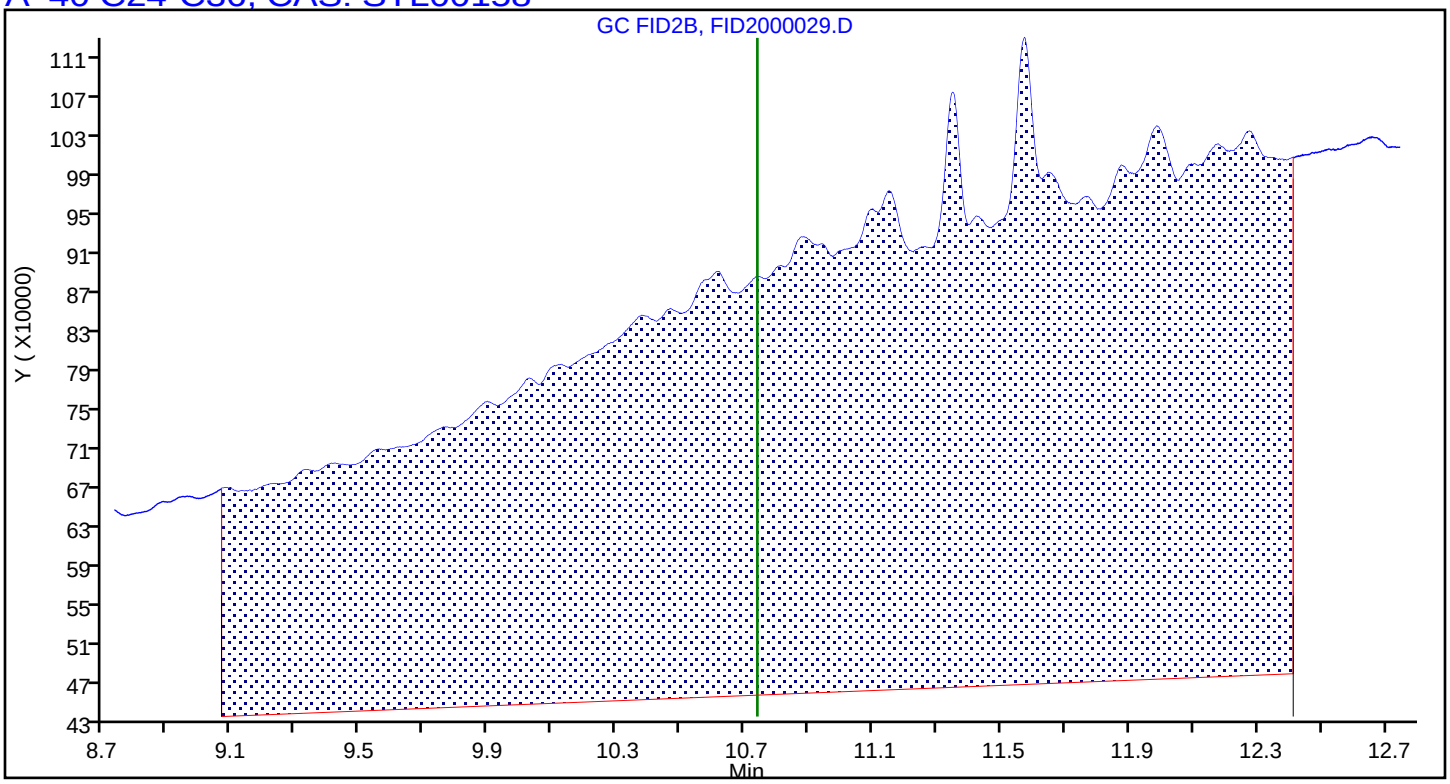


Report Date: 17-Jan-2019 14:02:54 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

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Injection Date:	17-Jan-2019 02:46:16	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-25-D	Lab Sample ID:	720-90673-25		
Client ID:	DG-AU7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	79	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

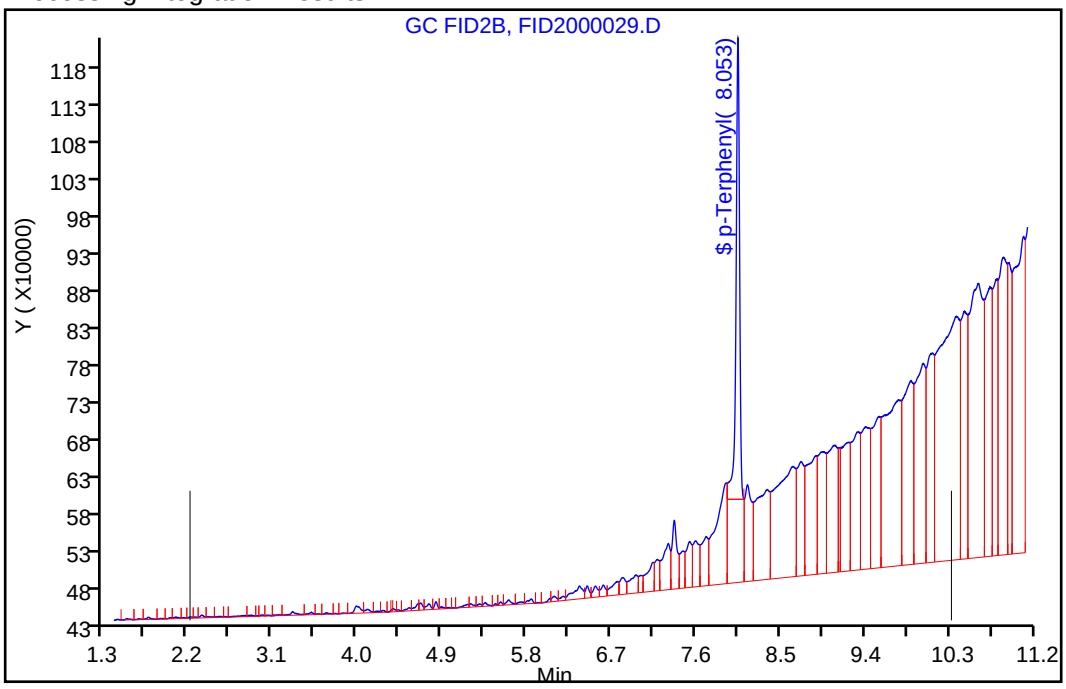
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Injection Date:	17-Jan-2019 02:46:16	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-25-D	Lab Sample ID:	720-90673-25		
Client ID:	DG-AU7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	79	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.269, CAS: STL00143

Signal: 1

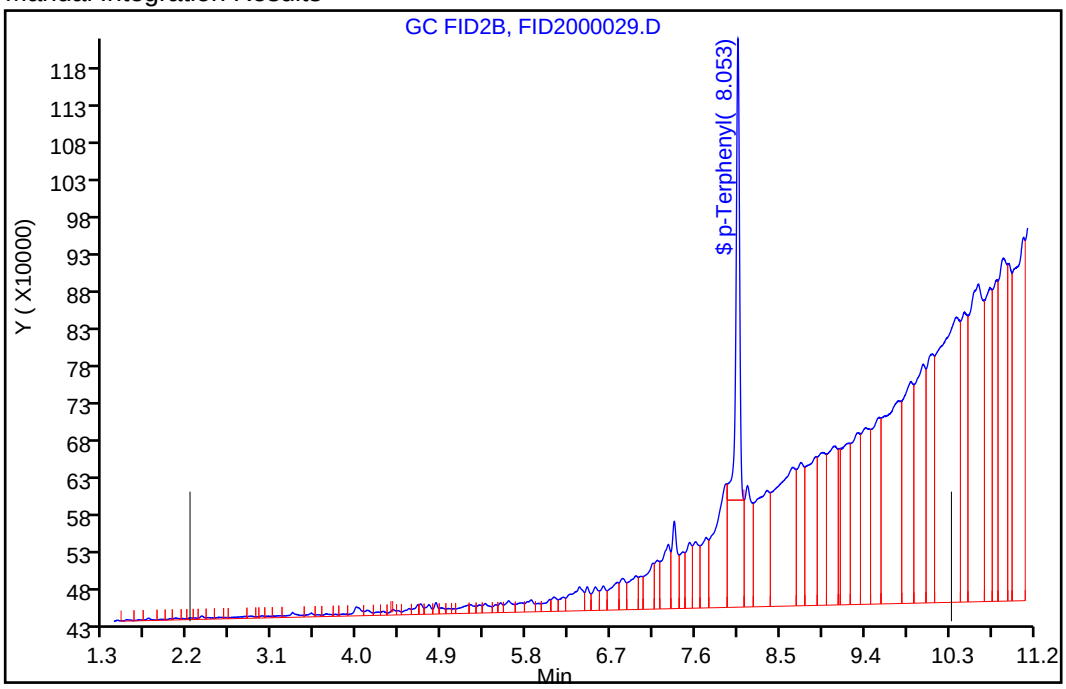
Processing Integration Results

RT: 6.27
Response: 542395928
Amount: 274.2865



Manual Integration Results

RT: 6.27
Response: 725813811
Amount: 367.0399



Reviewer: luj, 17-Jan-2019 14:02:22
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

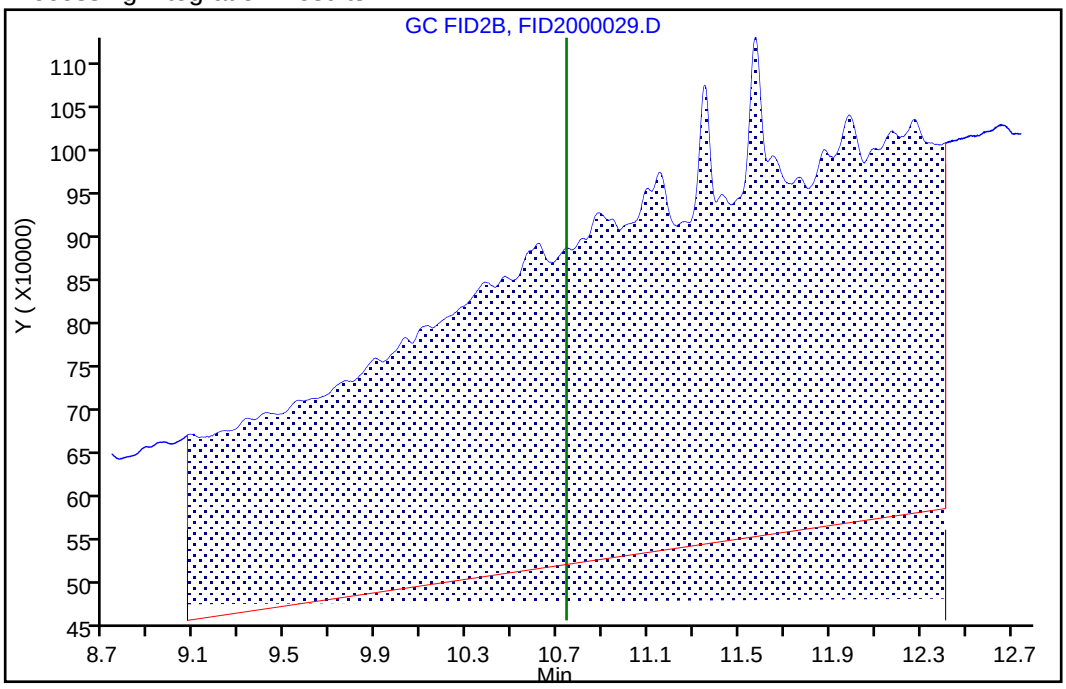
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190116-56116.b\FID2000029.D				
Injection Date:	17-Jan-2019 02:46:16	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-25-D	Lab Sample ID:	720-90673-25		
Client ID:	DG-AU7S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	79	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.740, CAS: STL00158

Signal: 1

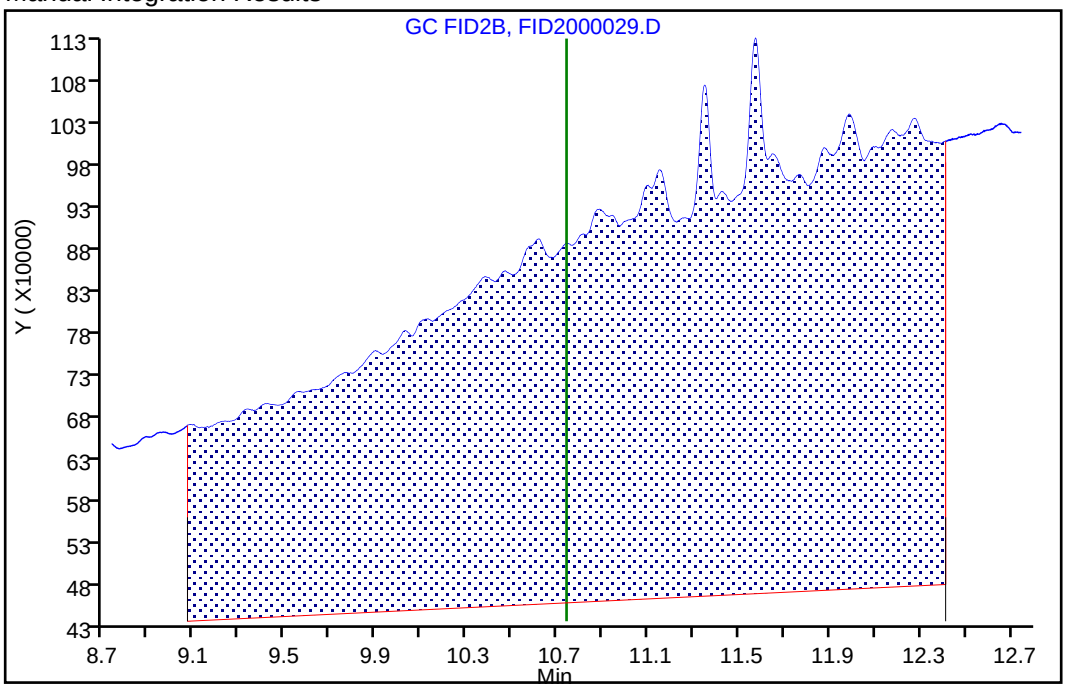
Processing Integration Results

RT: 10.74
Response: 1371862739
Amount: 1185.9057



Manual Integration Results

RT: 10.74
Response: 1614857316
Amount: 1395.9621



Reviewer: luj, 17-Jan-2019 14:02:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_007.d
Lims ID: 720-90673-E-26-D
Client ID: DG-AU7S-3.5-4
Sample Type: Client
Inject. Date: 19-Jan-2019 15:44:41 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0056178-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m
Limit Group: DRO
Last Update: 21-Jan-2019 10:53:58 Calib Date: 19-Jan-2019 13:00:26
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 10:53:58

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.675	2.672	0.003	1572	NC	
	23 n-Decane	3.876	3.888	-0.012	2178	NC	
A	1 C9-C13	4.625	(2.672-6.577)		113501	8.96	
A	21 Stoddard Solvent	4.625	(2.672-6.577)		113501	9.98	
A	57 C10-C12	4.833	(3.888-5.779)		46185	4.70	
	24 Dodecane	5.765	5.779	-0.014	7439	NC	
A	3 C9 - C17	5.978	(2.672-9.283)		277345	19.6	
A	47 C9 - C18	6.265	(2.672-9.858)		325253	29.0	
A	60 C10-C16	6.269	(3.888-8.651)		220503	17.7	
A	15 Kerosene	6.542	(2.672-10.411)		414077	36.8	
A	25 C9-C19	6.542	(2.672-10.411)		414077	29.2	
	26 C13	6.562	6.577	-0.015	13045	NC	
$	27 n-Decanoic Acid (Surr)		7.187			ND	U
A	59 C12-C16	7.215	(5.779-8.651)		181757	18.5	
A	62 C10-C20	7.416	(3.888-10.944)		552849	56.3	
A	28 C9-C24	7.767	(2.672-12.862)		1495464	152.3	
A	29 C9-C25	7.984	(2.672-13.296)		1728608	176.1	
A	54 C10-C23	8.149	(3.888-12.411)		1271948	129.5	
A	4 C10-C24	8.375	(3.888-12.862)		1479806	150.7	
A	16 C10-C25	8.592	(3.888-13.296)		1712950	174.5	
	45 Hexadecane	8.641	8.651	-0.010	11947	NC	
A	14 C10-C26	8.801	(3.888-13.715)		1930490	196.6	
A	67 C12-C22	8.861	(5.779-11.942)		931243	94.8	
A	5 Diesel	9.198	(3.888-14.508)		2393002	243.7	
A	32 C10-C28	9.198	(3.888-14.508)		2393002	243.7	
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		2393002	NC	
A	30 C13-C22	9.260	(6.577-11.942)		885191	90.2	
	44 Heptadecane	9.262	9.283	-0.021	20093	NC	
A	31 C12-C24	9.321	(5.779-12.862)		1441060	146.8	
	49 n-Octadecane	9.841	9.858	-0.017	11048	NC	
A	52 Mineral oil	9.948	(2.672-17.223)		4175670	384.4	
A	9 Crude Oil Range Organics (	9.948	(2.672-17.223)		4175670	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.948	(2.672-17.223)		4419027	NC	
33 C19	10.407	10.411	-0.004	29641	NC	
A 64 C13-C28	10.543	(6.577-14.508)		2308204	235.1	
A 17 C10-C36	10.612	(4.000-17.223)		4401191	448.3	
A 13 C9-C40	10.712	(2.672-18.752)		4608493	559.7	
A 68 Crude Oil Range Organics (	10.712	(2.672-18.752)		4608493	NC	
A 58 C16-C24	10.756	(8.651-12.862)		1271250	129.5	
61 icosane	10.973	10.944	0.029	48121	NC	
A 6 C10-C40	11.320	(3.888-18.752)		4591482	557.7	
$ 34 p-Terphenyl	11.907	11.913	-0.006	236548	18.8	
35 n-Docosane	12.038	11.942	0.096	35026	NC	
A 18 C12-C40	12.266	(5.779-18.752)		4536280	551.0	
36 Tricosane	12.405	12.411	-0.006	113889	NC	
A 66 C13-C40	12.665	(6.577-18.752)		3894689	469.7	
37 n-Tetracosane	12.858	12.862	-0.004	98843	NC	
A 2 C16-C36 ORO	12.937	(8.651-17.223)		2914938	408.6	
38 C25	13.290	13.296	-0.006	100272	NC	
A 19 C16-C40	13.702	(8.651-18.752)		4319069	524.0	
46 n-Hexacosane	13.709	13.715	-0.006	81096	NC	
A 20 C19-C36	13.817	(10.411-17.223)		3080390	395.0	
A 55 C23-C32	14.179	(12.411-15.946)		1948430	474.4	
39 n-Octacosane	14.504	14.508	-0.004	74214	NC	
65 C29	14.881	14.886	-0.005	170770	NC	
A 40 C24-C36	15.043	(12.862-17.223)		2316532	405.8	
A 7 Motor Oil	15.043	(12.862-17.223)		2316532	405.8	
A 50 C25-C36	15.260	(13.296-17.223)		2089827	388.3	
A 10 C22-C40	15.347	(11.942-18.752)		2849659	359.7	
A 41 C23-C40	15.582	(12.411-18.752)		2886870	373.4	
A 8 C24-C40	15.807	(12.862-18.752)		2670637	358.0	
56 Dotriacontane	15.932	15.946	-0.014	69602	NC	
A 51 C28-C40	16.630	(14.508-18.752)		1762749	330.1	
A 63 C29-C40	16.819	(14.886-18.752)		1529888	317.7	
42 n-Hexatriacontane		17.223			ND	
43 C40		18.752			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

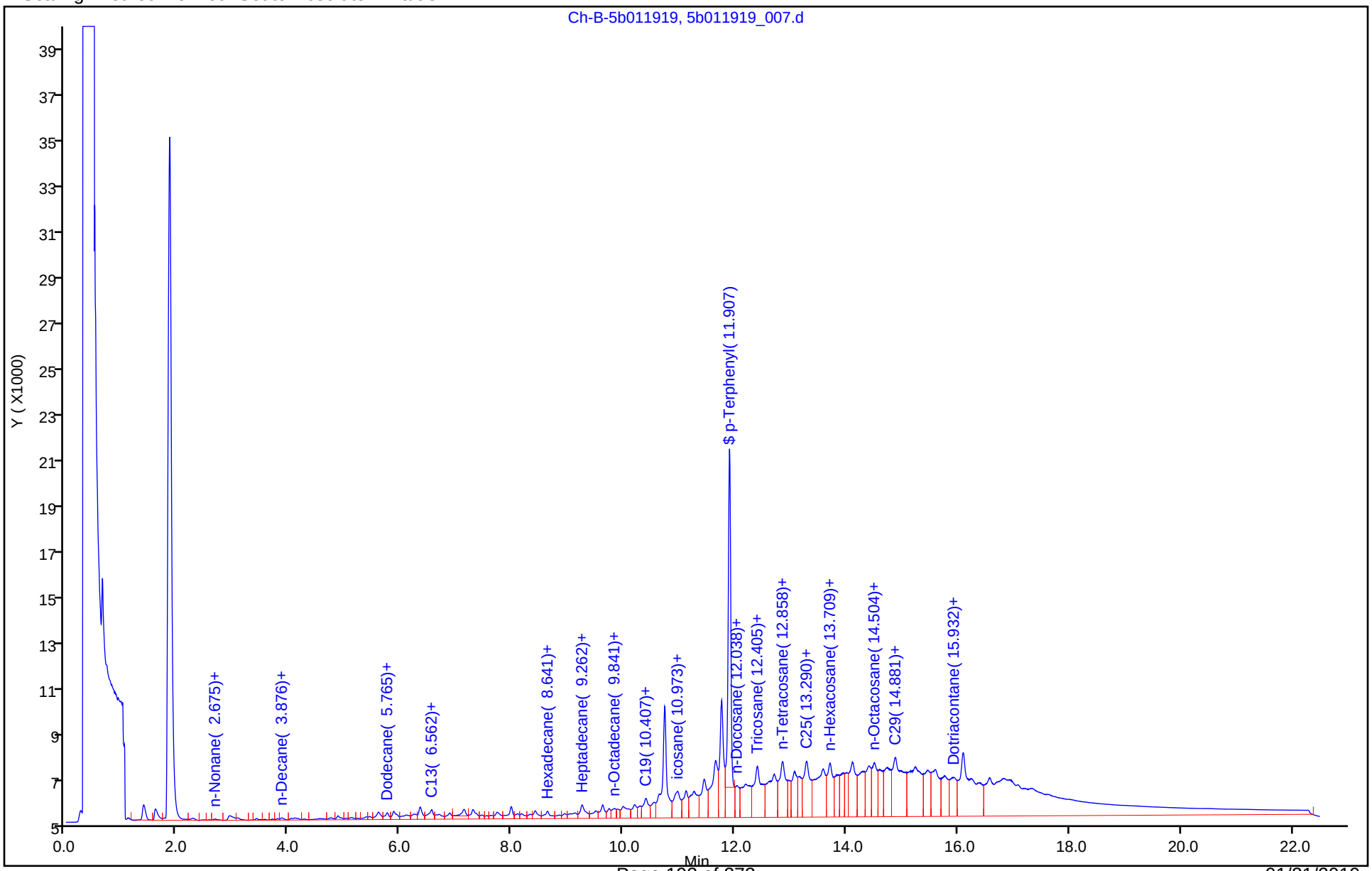
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_007.d

Injection Date:	19-Jan-2019 15:44:41	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-26-D	Lab Sample ID:	720-90673-26	Worklist Smp#:	7
Client ID:	DG-AU7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_007.d				
Lims ID:	720-90673-E-26-D				
Client ID:	DG-AU7S-3.5-4				
Sample Type:	Client				
Inject. Date:	19-Jan-2019 15:44:41	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 136 Name: 720-0056178-007				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 10:53:58	Calib Date:	19-Jan-2019 13:00:26		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 10:53:58

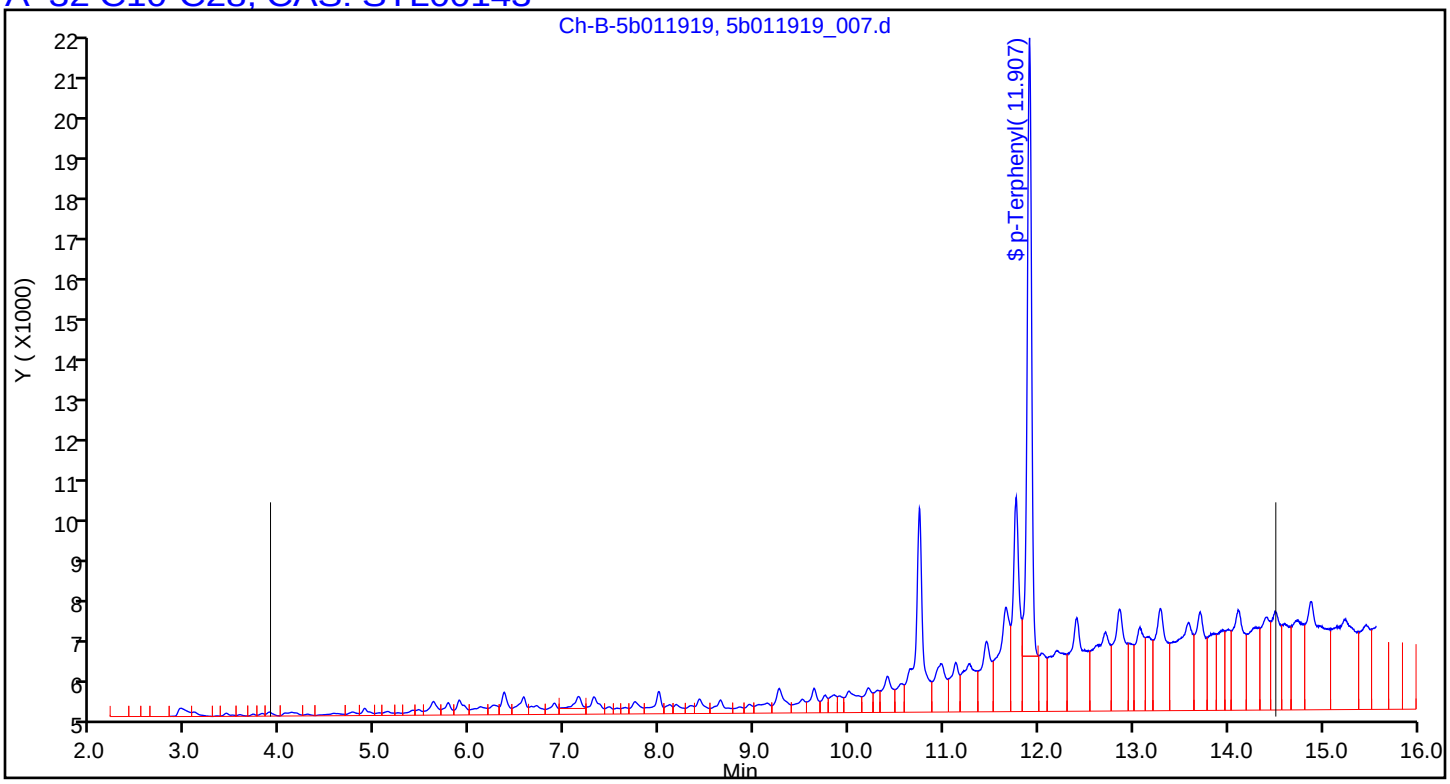
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	18.8	75.08

Report Date: 21-Jan-2019 10:54:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_007.d				
Injection Date:	19-Jan-2019 15:44:41	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-26-D	Lab Sample ID:	720-90673-26		
Client ID:	DG-AU7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

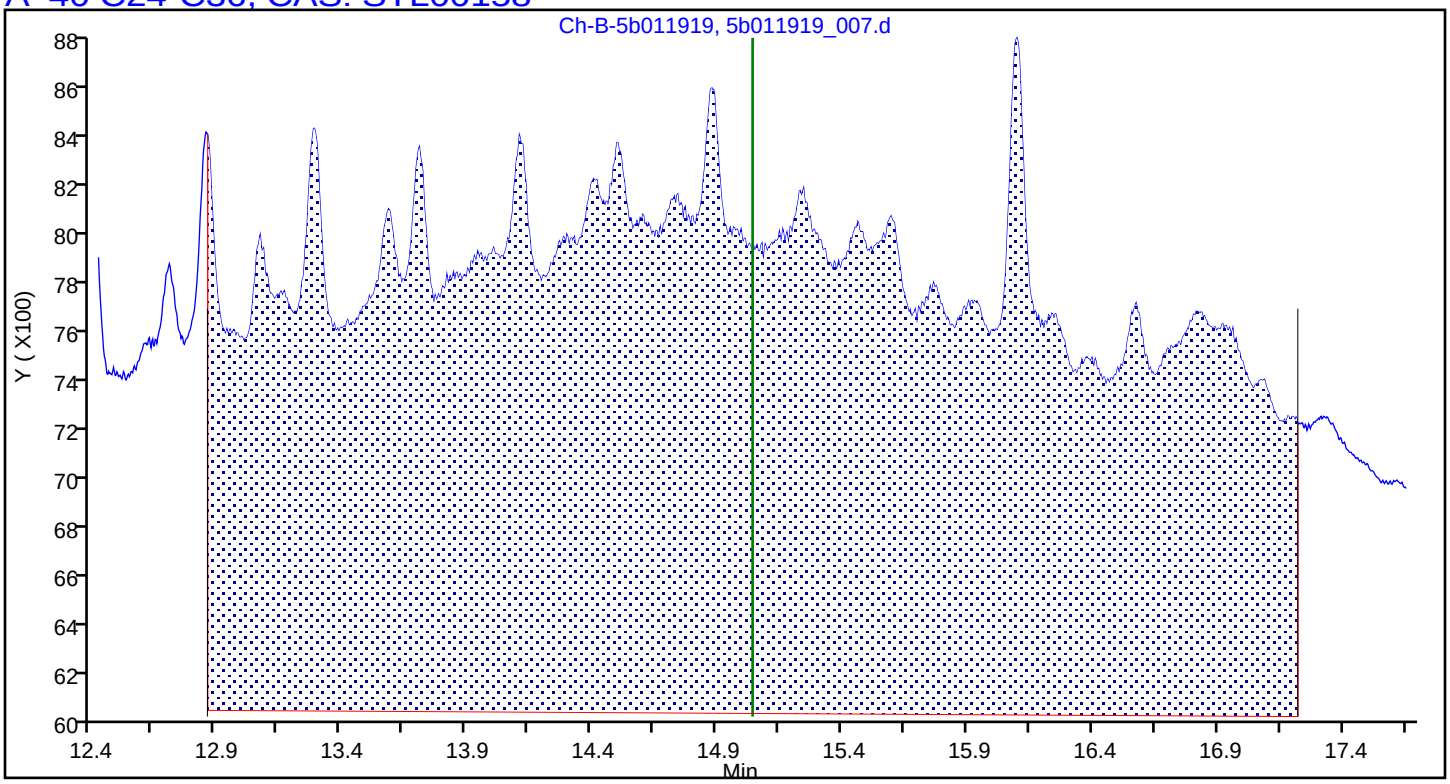


Report Date: 21-Jan-2019 10:54:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_007.d				
Injection Date:	19-Jan-2019 15:44:41	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-26-D	Lab Sample ID:	720-90673-26		
Client ID:	DG-AU7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_024.d
Lims ID: 720-90673-E-27-D
Client ID: DUP-50
Sample Type: Client
Inject. Date: 22-Jan-2019 00:02:53 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 3.0000
Sample Info: #: 007 Name: 720-0056187-024
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\DRO5A.m
Limit Group: DRO
Last Update: 22-Jan-2019 11:01:23 Calib Date: 21-Jan-2019 09:29:11
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0329

First Level Reviewer: luj Date: 22-Jan-2019 11:01:23

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.476	2.544	-0.068	674	NC	
23 n-Decane	3.805	3.793	0.012	1562	NC	
A 1 C9-C13	4.528	(2.544-6.512)		21552	NC	
A 21 Stoddard Solvent	4.528	(2.544-6.512)		21552	NC	
A 57 C10-C12	4.751	(3.793-5.708)		12406	1.27	
24 Dodecane		5.708			ND	
A 3 C9 - C17	5.892	(2.544-9.239)		72421	5.97	
A 47 C9 - C18	6.187	(2.544-9.830)		144677	13.4	
A 60 C10-C16	6.198	(3.793-8.602)		59831	5.43	
A 15 Kerosene	6.458	(2.544-10.372)		144677	13.4	
A 25 C9-C19	6.458	(2.544-10.372)		144677	11.9	
26 C13	6.490	6.512	-0.022	6049	NC	
A 59 C12-C16	7.155	(5.708-8.602)		54332	5.54	
$ 27 n-Decanoic Acid (Surr)		7.156			ND	
A 62 C10-C20	7.351	(3.793-10.909)		355564	36.3	
A 28 C9-C24	7.693	(2.544-12.841)		1107574	113.0	
A 29 C9-C25	7.911	(2.544-13.278)		1397310	142.6	
A 54 C10-C23	8.090	(3.793-12.387)		791835	80.8	
A 4 C10-C24	8.317	(3.793-12.841)		1104691	112.7	
A 16 C10-C25	8.536	(3.793-13.278)		1394427	142.3	
45 Hexadecane	8.594	8.602	-0.008	6914	NC	
A 14 C10-C26	8.747	(3.793-13.700)		2098509	214.1	
A 67 C12-C22	8.811	(5.708-11.914)		786336	80.2	
A 12 Unknown Hydrocarbons	9.146	(3.793-14.499)		2892303	NC	
A 32 C10-C28	9.146	(3.793-14.499)		2892303	295.1	
A 5 Diesel	9.146	(3.793-14.499)		2892303	295.1	
A 30 C13-C22	9.213	(6.512-11.914)		779215	79.5	
44 Heptadecane	9.247	9.239	0.008	22360	NC	
A 31 C12-C24	9.274	(5.708-12.841)		1099192	112.2	
49 n-Octadecane	9.810	9.830	-0.020	37592	NC	
A 9 Crude Oil Range Organics (	9.888	(2.544-17.232)		6399314	NC	
A 52 Mineral oil	9.888	(2.544-17.232)		6399314	571.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.888	(2.544-17.232)		5776423	NC	
33 C19		10.372			ND	
A 64 C13-C28	10.506	(6.512-14.499)		2879683	293.8	
A 17 C10-C36	10.513	(3.793-17.232)		5773540	589.1	
A 13 C9-C40	10.665	(2.544-18.786)		7803228	951.1	
A 68 Crude Oil Range Organics (	10.665	(2.544-18.786)		7803228	NC	
A 58 C16-C24	10.721	(8.602-12.841)		1051774	107.3	
61 icosane	10.908	10.909	-0.001	37471	NC	
A 6 C10-C40	11.290	(3.793-18.786)		7797476	950.7	
$ 34 p-Terphenyl	11.893	11.908	-0.015	102111	8.56	M
35 n-Docosane		11.914			ND	
A 18 C12-C40	12.247	(5.708-18.786)		7774310	948.2	
36 Tricosane	12.398	12.387	0.011	312856	NC	
A 66 C13-C40	12.649	(6.512-18.786)		7758000	946.2	
37 n-Tetracosane	12.843	12.841	0.002	289736	NC	
A 2 C16-C36 ORO	12.917	(8.602-17.232)		6264922	825.5	
38 C25	13.279	13.278	0.001	348955	NC	
A 19 C16-C40	13.694	(8.602-18.786)		7668836	935.6	
46 n-Hexacosane	13.695	13.700	-0.005	355127	NC	
A 20 C19-C36	13.802	(10.372-17.232)		5606240	649.7	
A 55 C23-C32	14.167	(12.387-15.948)		3598372	756.7	
39 n-Octacosane	14.450	14.499	-0.049	444573	NC	
65 C29	14.884	14.879	0.005	490219	NC	
A 7 Motor Oil	15.036	(12.841-17.232)		4520341	742.0	
A 40 C24-C36	15.036	(12.841-17.232)		4520341	742.0	
A 50 C25-C36	15.255	(13.278-17.232)		4192357	724.6	
A 10 C22-C40	15.350	(11.914-18.786)		6309328	754.7	
A 41 C23-C40	15.586	(12.387-18.786)		6123276	746.6	
A 8 C24-C40	15.813	(12.841-18.786)		5821269	731.8	
56 Dotriacontane	15.955	15.948	0.007	207274	NC	
A 51 C28-C40	16.642	(14.499-18.786)		4402227	723.6	
A 63 C29-C40	16.832	(14.879-18.786)		3986135	724.8	
42 n-Hexatriacontane	17.271	17.232	0.038	2728909	NC	
43 C40		18.786			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

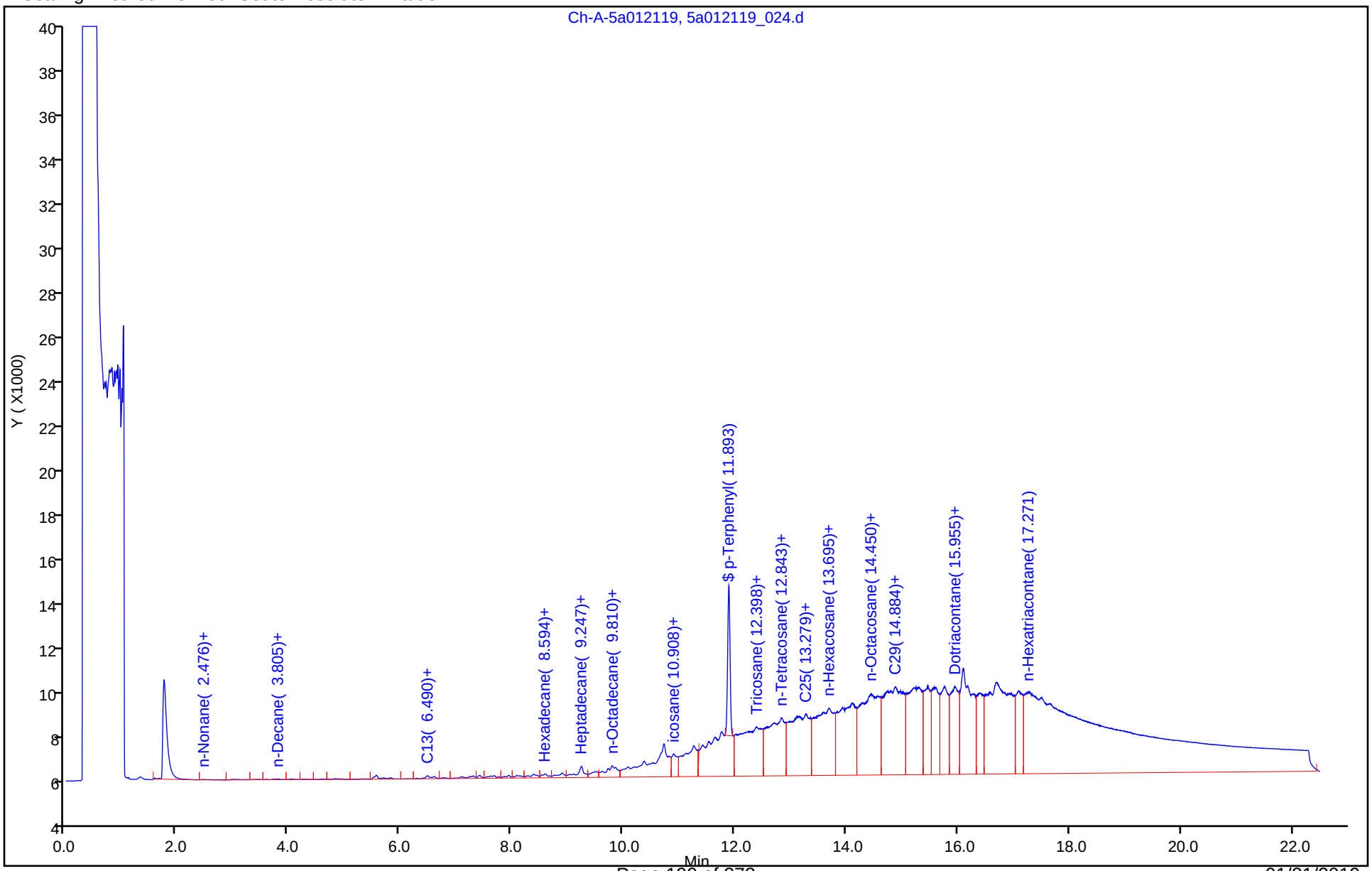
Report Date: 22-Jan-2019 11:01:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_024.d

Injection Date:	22-Jan-2019 00:02:53	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-27-D	Lab Sample ID:	720-90673-27	Worklist Smp#:	24
Client ID:	DUP-50				
Injection Vol:	1.0 ul	Dil. Factor:	3.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_024.d				
Lims ID:	720-90673-E-27-D				
Client ID:	DUP-50				
Sample Type:	Client				
Inject. Date:	22-Jan-2019 00:02:53	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Sample Info:	#: 007 Name: 720-0056187-024				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	22-Jan-2019 11:01:23	Calib Date:	21-Jan-2019 09:29:11		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0329				

First Level Reviewer: luj Date: 22-Jan-2019 11:01:23

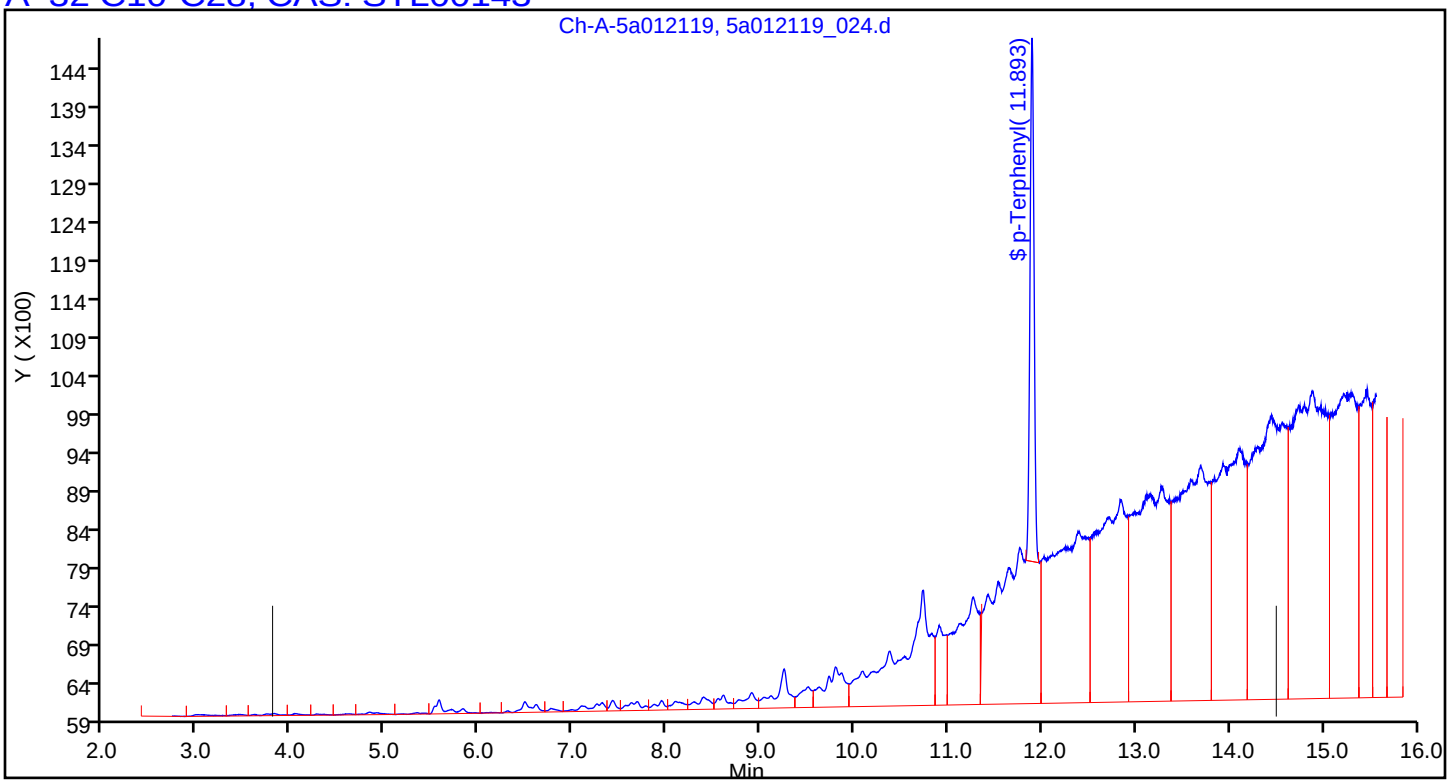
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	8.56	102.75

Report Date: 22-Jan-2019 11:01:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_024.d				
Injection Date:	22-Jan-2019 00:02:53	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-27-D	Lab Sample ID:	720-90673-27		
Client ID:	DUP-50				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

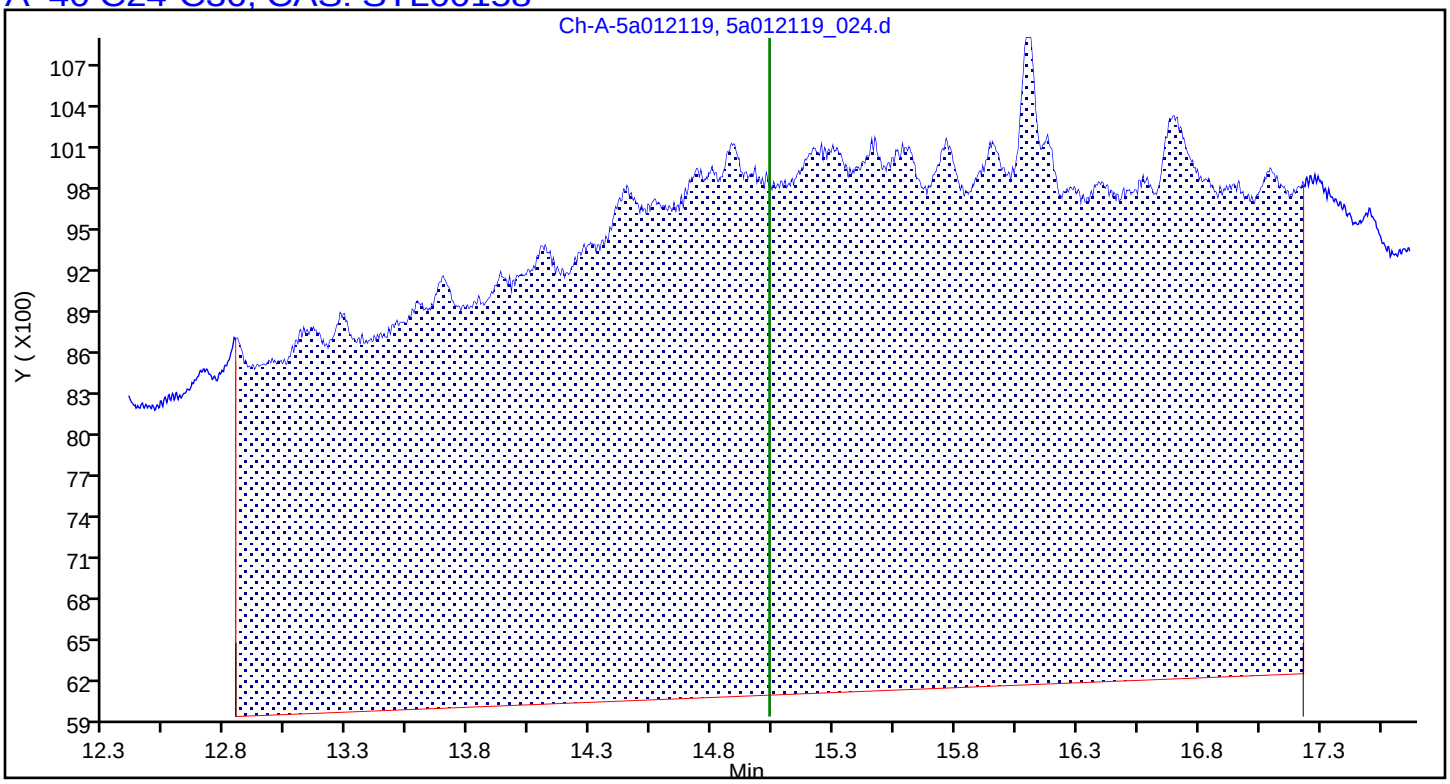


Report Date: 22-Jan-2019 11:01:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_024.d				
Injection Date:	22-Jan-2019 00:02:53	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-27-D	Lab Sample ID:	720-90673-27		
Client ID:	DUP-50				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

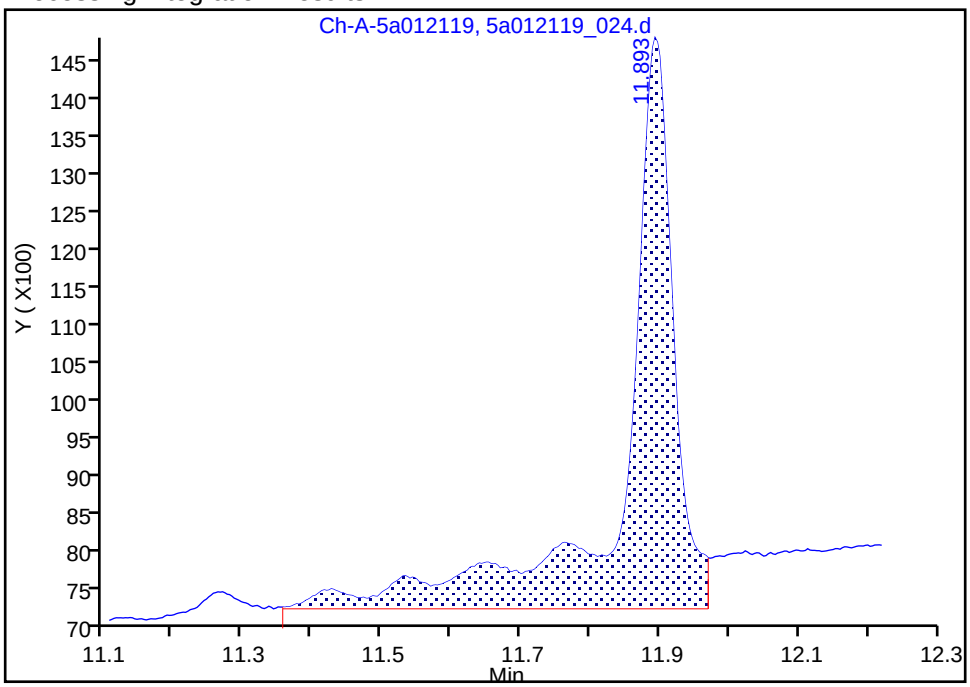
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Injection Date:	22-Jan-2019 00:02:53	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-27-D	Lab Sample ID:	720-90673-27		
Client ID:	DUP-50				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

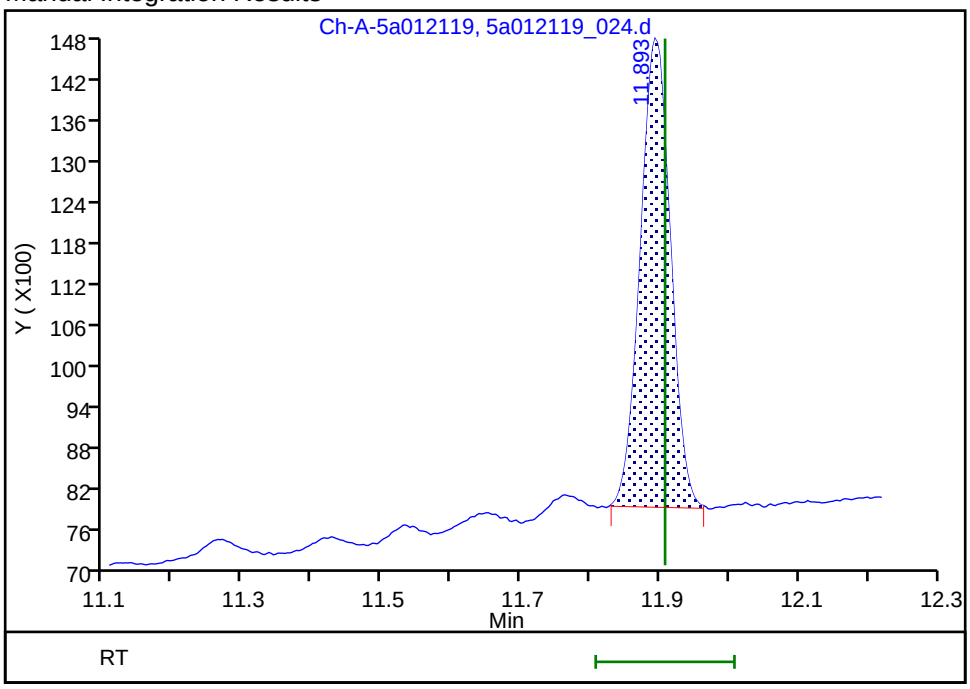
Processing Integration Results

RT: 11.89
Area: 191203
Amount: 16.033911
Amount Units: mg/L



Manual Integration Results

RT: 11.89
Area: 102111
Amount: 8.562829
Amount Units: mg/L



Reviewer: luj, 22-Jan-2019 11:01:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_008.d
Lims ID: 720-90673-E-28-D
Client ID: DG-AR9S-0.5-1
Sample Type: Client
Inject. Date: 19-Jan-2019 16:13:48 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 136 Name: 720-0056178-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m
Limit Group: DRO
Last Update: 21-Jan-2019 10:53:38 Calib Date: 19-Jan-2019 13:00:26
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 10:53:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.710	2.672	0.038	487	NC	
	23 n-Decane	3.928	3.888	0.040	667	NC	
A	1 C9-C13	4.625	(2.672-6.577)		34117	2.69	
A	21 Stoddard Solvent	4.625	(2.672-6.577)		34117	3.00	
A	57 C10-C12	4.833	(3.888-5.779)		12966	1.32	
	24 Dodecane	5.774	5.779	-0.005	939	NC	
A	3 C9 - C17	5.978	(2.672-9.283)		82431	5.84	
A	47 C9 - C18	6.265	(2.672-9.858)		124338	11.1	
A	60 C10-C16	6.269	(3.888-8.651)		60934	4.88	
A	15 Kerosene	6.542	(2.672-10.411)		169058	15.0	
A	25 C9-C19	6.542	(2.672-10.411)		169058	11.9	
	26 C13	6.558	6.577	-0.019	2997	NC	
$	27 n-Decanoic Acid (Surr)		7.187			ND	U
A	59 C12-C16	7.215	(5.779-8.651)		48907	4.98	
A	62 C10-C20	7.416	(3.888-10.944)		282189	28.7	
A	28 C9-C24	7.767	(2.672-12.862)		1284557	130.8	
A	29 C9-C25	7.984	(2.672-13.296)		1767571	180.0	
A	54 C10-C23	8.149	(3.888-12.411)		971667	99.0	
A	4 C10-C24	8.375	(3.888-12.862)		1277251	130.1	
A	16 C10-C25	8.592	(3.888-13.296)		1760265	179.3	
	45 Hexadecane	8.651	8.651	0.000	1996	NC	
A	14 C10-C26	8.801	(3.888-13.715)		1960037	199.6	
A	67 C12-C22	8.861	(5.779-11.942)		684638	69.7	
A	5 Diesel	9.198	(3.888-14.508)		2734086	278.5	
A	32 C10-C28	9.198	(3.888-14.508)		2734086	278.5	
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		2734086	NC	
A	30 C13-C22	9.260	(6.577-11.942)		672851	68.5	
	44 Heptadecane	9.295	9.283	0.012	9815	NC	
A	31 C12-C24	9.321	(5.779-12.862)		1265224	128.9	
	49 n-Octadecane	9.896	9.858	0.038	7105	NC	
A	52 Mineral oil	9.948	(2.672-17.223)		5843715	537.9	
A	9 Crude Oil Range Organics (	9.948	(2.672-17.223)		5843715	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.948	(2.672-17.223)		6976400	NC	
33 C19	10.414	10.411	0.003	24989	NC	
A 64 C13-C28	10.543	(6.577-14.508)		2710272	276.0	
A 17 C10-C36	10.555	(3.888-17.223)		6969094	709.8	
A 13 C9-C40	10.712	(2.672-18.752)		6847880	853.2	
A 68 Crude Oil Range Organics (	10.712	(2.672-18.752)		6847880	NC	
A 58 C16-C24	10.756	(8.651-12.862)		1218313	124.1	
61 icosane	10.948	10.944	0.004	37676	NC	
A 6 C10-C40	11.320	(3.888-18.752)		6839041	852.3	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane		11.942			ND	
A 18 C12-C40	12.266	(5.779-18.752)		6817036	849.9	
36 Tricosane	12.422	12.411	0.011	103656	NC	
A 66 C13-C40	12.665	(6.577-18.752)		6554826	818.9	
37 n-Tetracosane	12.864	12.862	0.002	127177	NC	
A 2 C16-C36 ORO	12.937	(8.651-17.223)		4787636	671.1	
38 C25	13.294	13.296	-0.002	135571	NC	
A 19 C16-C40	13.702	(8.651-18.752)		6720654	839.2	
46 n-Hexacosane	13.719	13.715	0.004	99309	NC	
A 20 C19-C36	13.817	(10.411-17.223)		4588976	588.5	
A 55 C23-C32	14.179	(12.411-15.946)		3174042	772.7	
39 n-Octacosane	14.514	14.508	0.006	32187	NC	
65 C29	14.884	14.886	-0.002	291895	NC	
A 40 C24-C36	15.043	(12.862-17.223)		3988553	698.7	
A 7 Motor Oil	15.043	(12.862-17.223)		3988553	698.7	
A 50 C25-C36	15.260	(13.296-17.223)		3655614	679.3	
A 10 C22-C40	15.347	(11.942-18.752)		5496003	693.8	
A 41 C23-C40	15.582	(12.411-18.752)		5216813	674.8	
A 8 C24-C40	15.807	(12.862-18.752)		4903443	657.4	
56 Dotriacontane	15.915	15.946	-0.031	152083	NC	
A 51 C28-C40	16.630	(14.508-18.752)		3503728	692.7	
A 63 C29-C40	16.819	(14.886-18.752)		3119340	691.4	
42 n-Hexatriacontane		17.223			ND	
43 C40		18.752			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

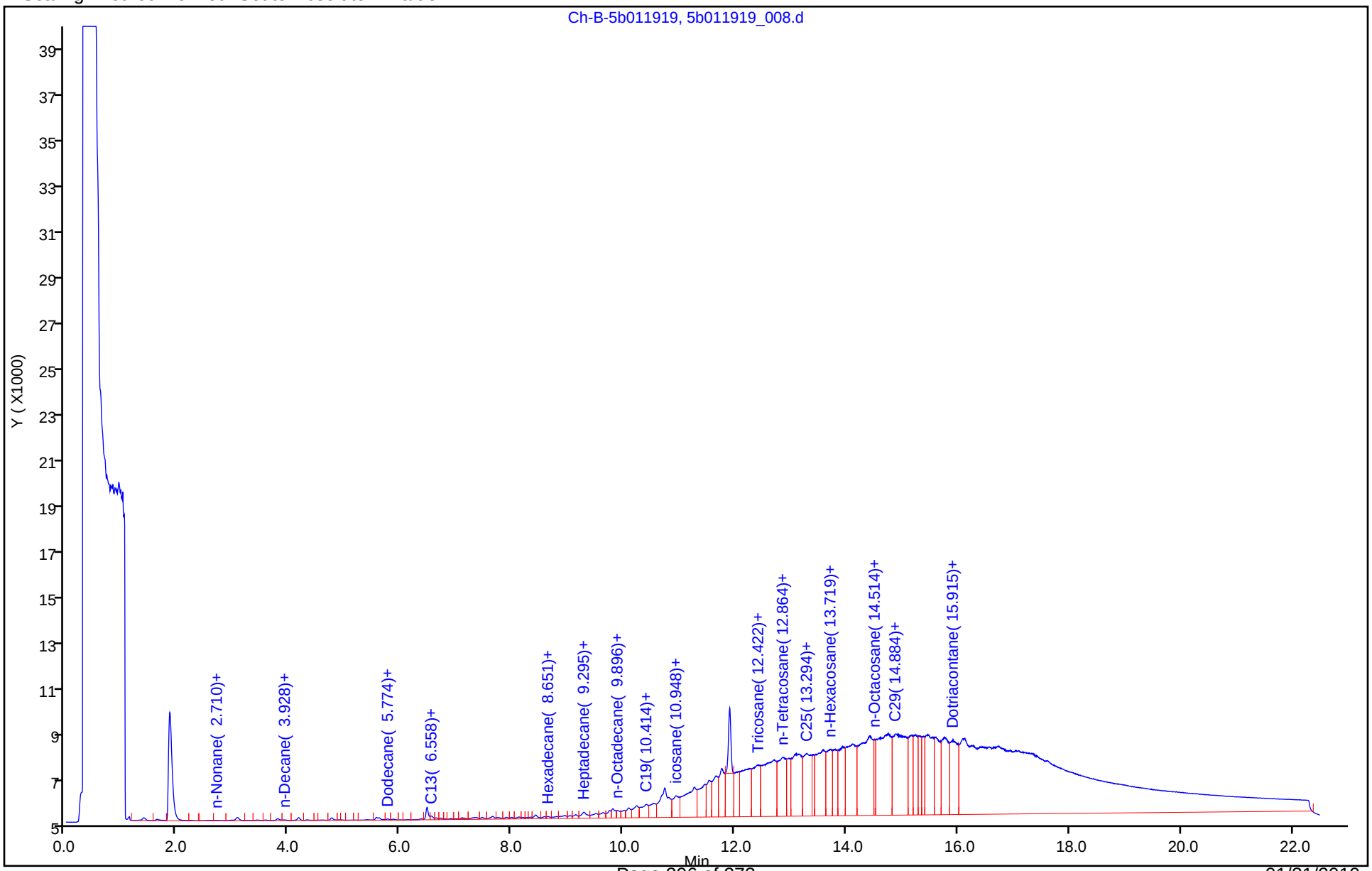
Report Date: 21-Jan-2019 10:53:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_008.d

Injection Date:	19-Jan-2019 16:13:48	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-28-D	Lab Sample ID:	720-90673-28	Worklist Smp#:	8
Client ID:	DG-AR9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

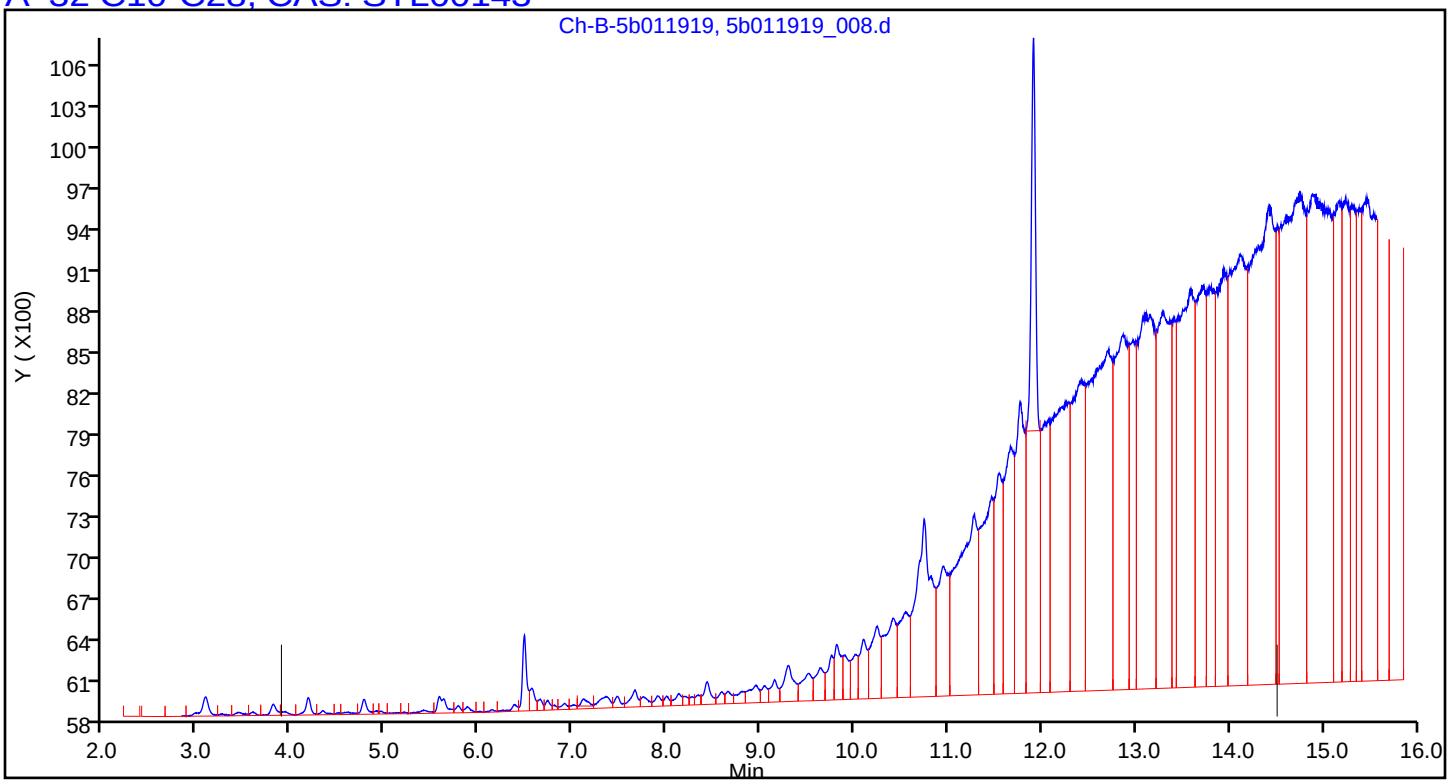


Report Date: 21-Jan-2019 10:53:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_008.d				
Injection Date:	19-Jan-2019 16:13:48	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-28-D	Lab Sample ID:	720-90673-28		
Client ID:	DG-AR9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

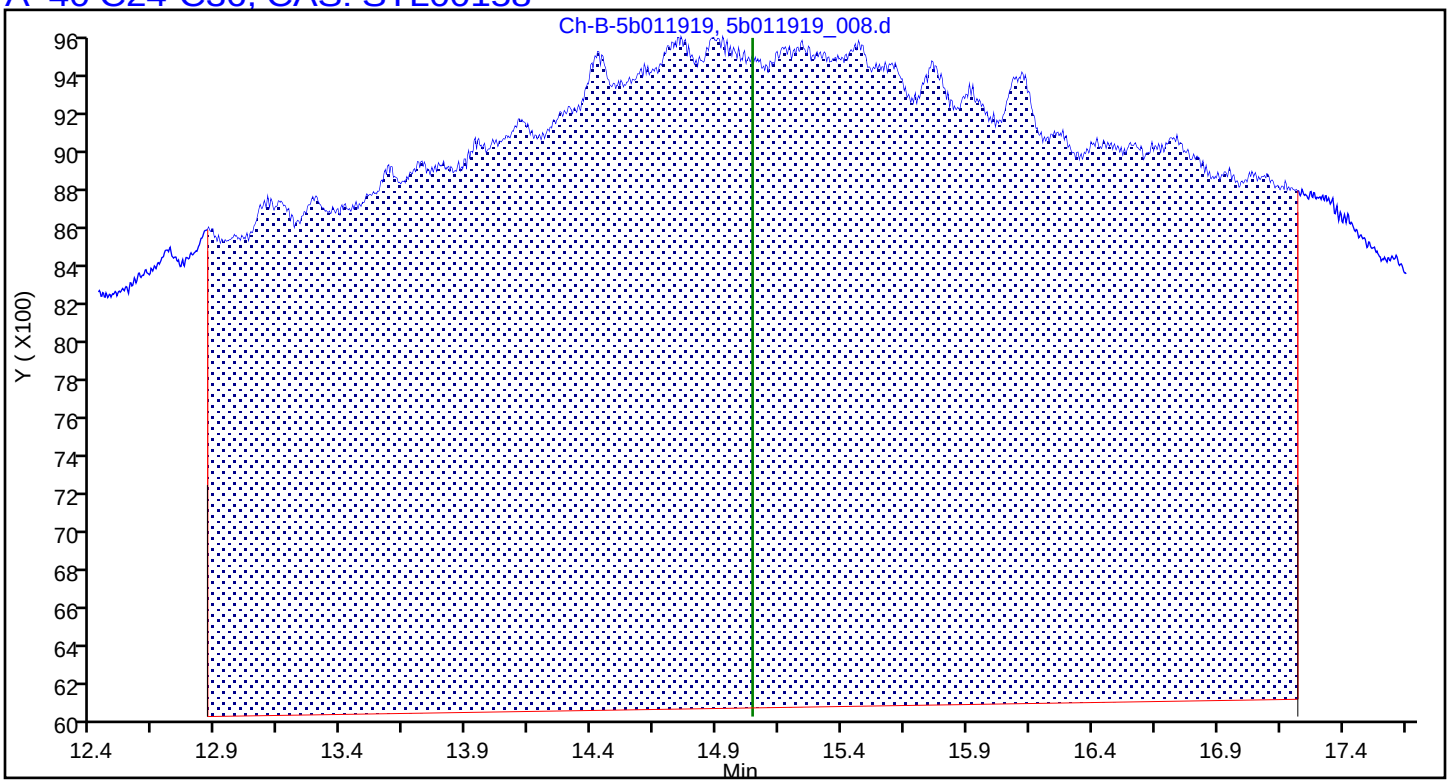


Report Date: 21-Jan-2019 10:53:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_008.d				
Injection Date:	19-Jan-2019 16:13:48	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-28-D	Lab Sample ID:	720-90673-28		
Client ID:	DG-AR9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



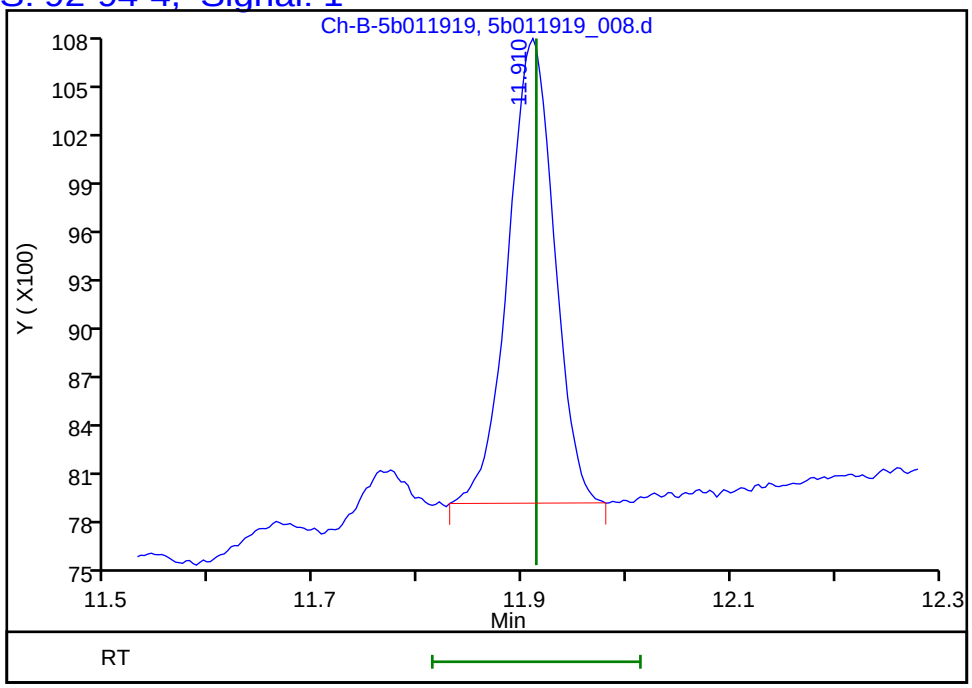
User Disabled Compound Report

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_008.d
Injection Date: 19-Jan-2019 16:13:48 Instrument ID: CHDRO5
Lims ID: 720-90673-E-28-D Lab Sample ID: 720-90673-28
Client ID: DG-AR9S-0.5-1
Operator ID: manager ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Method: DRO5B Limit Group: DRO
Column: Detector GC FID1A

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 43070
Amount: 3.417477



Reviewer: luj, 21-Jan-2019 10:53:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_009.d
Lims ID: 720-90673-E-29-E
Client ID: DG-AR9S-3.5-4
Sample Type: Client
Inject. Date: 19-Jan-2019 16:42:56 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 136 Name: 720-0056178-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m
Limit Group: DRO
Last Update: 21-Jan-2019 10:53:16 Calib Date: 19-Jan-2019 13:00:26
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 10:53:16

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.722	2.672	0.050	411	NC	
	23 n-Decane	3.912	3.888	0.024	1275	NC	
A	1 C9-C13	4.625	(2.672-6.577)		17069	1.35	
A	21 Stoddard Solvent	4.625	(2.672-6.577)		17069	1.50	
A	57 C10-C12	4.833	(3.888-5.779)		8768	0.8930	
	24 Dodecane	5.712	5.779	-0.067	1563	NC	
A	3 C9 - C17	5.978	(2.672-9.283)		39871	2.82	
A	47 C9 - C18	6.265	(2.672-9.858)		53875	4.80	
A	60 C10-C16	6.269	(3.888-8.651)		22940	1.84	
A	15 Kerosene	6.542	(2.672-10.411)		77842	6.92	
A	25 C9-C19	6.542	(2.672-10.411)		77842	5.50	
	26 C13	6.573	6.577	-0.004	854	NC	
$	27 n-Decanoic Acid (Surr)		7.187			ND	U
A	59 C12-C16	7.215	(5.779-8.651)		15735	1.60	
A	62 C10-C20	7.416	(3.888-10.944)		154089	15.7	
A	28 C9-C24	7.767	(2.672-12.862)		517716	52.7	
A	29 C9-C25	7.984	(2.672-13.296)		643208	65.5	
A	54 C10-C23	8.149	(3.888-12.411)		405644	41.3	
A	4 C10-C24	8.375	(3.888-12.862)		511219	52.1	
A	16 C10-C25	8.592	(3.888-13.296)		636711	64.8	
	45 Hexadecane	8.650	8.651	-0.001	1939	NC	
A	14 C10-C26	8.801	(3.888-13.715)		841090	85.7	
A	67 C12-C22	8.861	(5.779-11.942)		308064	31.4	
A	5 Diesel	9.198	(3.888-14.508)		1135931	115.7	
A	32 C10-C28	9.198	(3.888-14.508)		1135931	115.7	
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		1135931	NC	
A	30 C13-C22	9.260	(6.577-11.942)		305551	31.1	
	44 Heptadecane	9.275	9.283	-0.008	6206	NC	
A	31 C12-C24	9.321	(5.779-12.862)		504014	51.3	
	49 n-Octadecane	9.851	9.858	-0.007	3770	NC	
A	52 Mineral oil	9.948	(2.672-17.223)		3211415	295.6	
A	9 Crude Oil Range Organics (	9.948	(2.672-17.223)		3211415	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.948	(2.672-17.223)		4134126	NC	
33 C19	10.414	10.411	0.003	8895	NC	
A 64 C13-C28	10.543	(6.577-14.508)		1126213	114.7	
A 17 C10-C36	10.555	(3.888-17.223)		4127629	420.4	
A 13 C9-C40	10.712	(2.672-18.752)		4008781	481.1	
A 68 Crude Oil Range Organics (	10.712	(2.672-18.752)		4008781	NC	
A 58 C16-C24	10.756	(8.651-12.862)		490218	49.9	
61 icosane	10.976	10.944	0.032	16718	NC	
A 6 C10-C40	11.320	(3.888-18.752)		4000775	480.3	
$ 34 p-Terphenyl	11.913	11.913	0.000	275627	21.9	
35 n-Docosane	12.041	11.942	0.099	14573	NC	
A 18 C12-C40	12.266	(5.779-18.752)		3987266	479.0	
36 Tricosane	12.412	12.411	0.001	38750	NC	
A 66 C13-C40	12.665	(6.577-18.752)		3919434	472.9	
37 n-Tetracosane	12.863	12.862	0.001	61651	NC	
A 2 C16-C36 ORO	12.937	(8.651-17.223)		2661212	373.0	
38 C25	13.297	13.296	0.001	51897	NC	
A 19 C16-C40	13.702	(8.651-18.752)		3948735	475.4	
46 n-Hexacosane	13.712	13.715	-0.003	76667	NC	
A 20 C19-C36	13.817	(10.411-17.223)		2184133	280.1	
A 55 C23-C32	14.179	(12.411-15.946)		1624517	395.5	
39 n-Octacosane	14.517	14.508	0.009	45628	NC	
65 C29	14.886	14.886	0.000	95225	NC	
A 40 C24-C36	15.043	(12.862-17.223)		2299313	402.8	
A 7 Motor Oil	15.043	(12.862-17.223)		2299313	402.8	
A 50 C25-C36	15.260	(13.296-17.223)		2173653	403.9	
A 10 C22-C40	15.347	(11.942-18.752)		2966811	374.5	
A 41 C23-C40	15.582	(12.411-18.752)		3136770	405.7	
A 8 C24-C40	15.807	(12.862-18.752)		3026911	405.8	
56 Dotriacontane	15.939	15.946	-0.007	78166	NC	
A 51 C28-C40	16.630	(14.508-18.752)		2397855	462.4	
A 63 C29-C40	16.819	(14.886-18.752)		2180194	470.6	
42 n-Hexatriacontane		17.223			ND	
43 C40		18.752			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

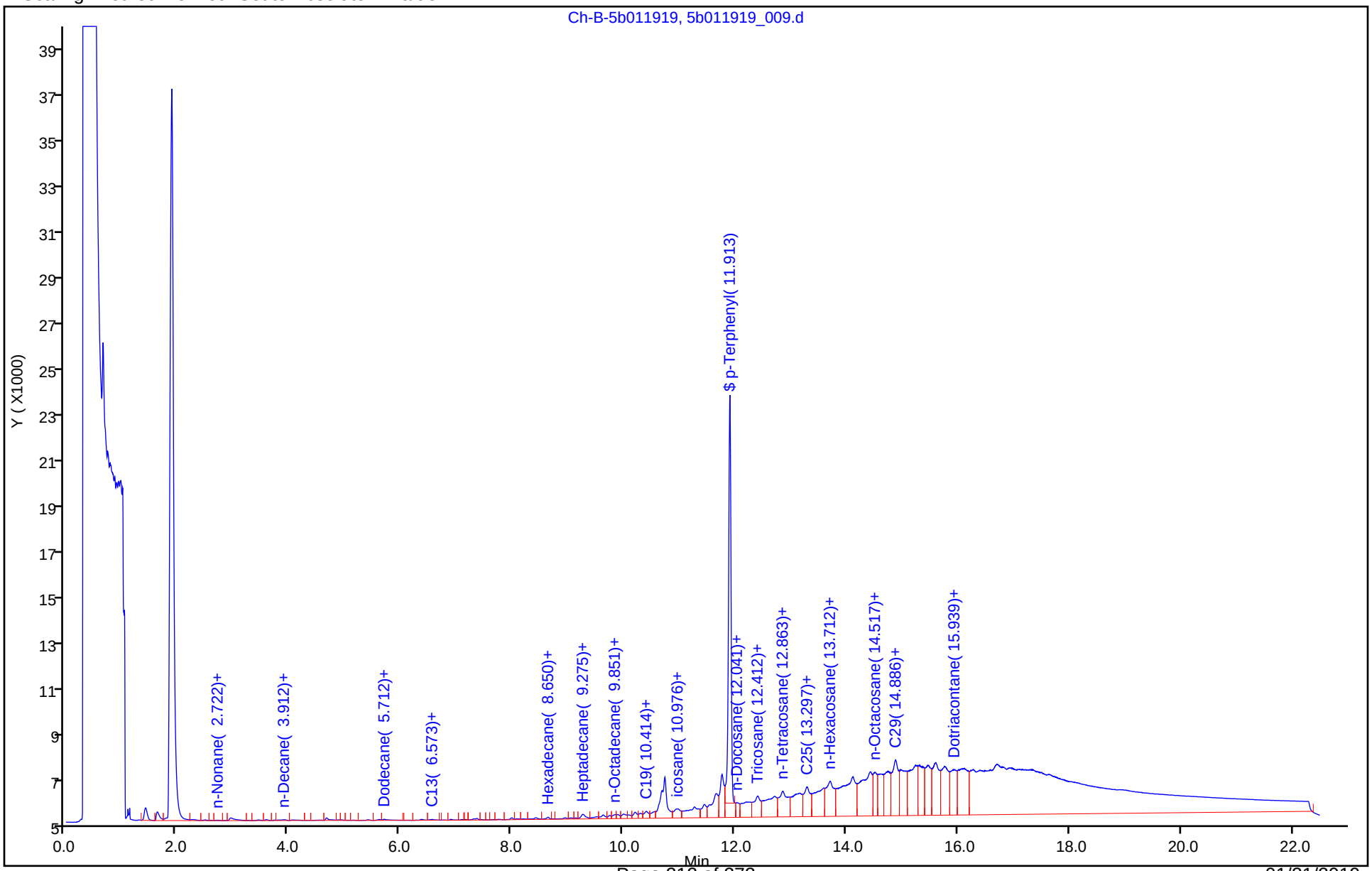
Report Date: 21-Jan-2019 10:53:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_009.d

Injection Date:	19-Jan-2019 16:42:56	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-29-E	Lab Sample ID:	720-90673-29	Worklist Smp#:	9
Client ID:	DG-AR9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_009.d				
Lims ID:	720-90673-E-29-E				
Client ID:	DG-AR9S-3.5-4				
Sample Type:	Client				
Inject. Date:	19-Jan-2019 16:42:56	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 136 Name: 720-0056178-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 10:53:16	Calib Date:	19-Jan-2019 13:00:26		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 10:53:16

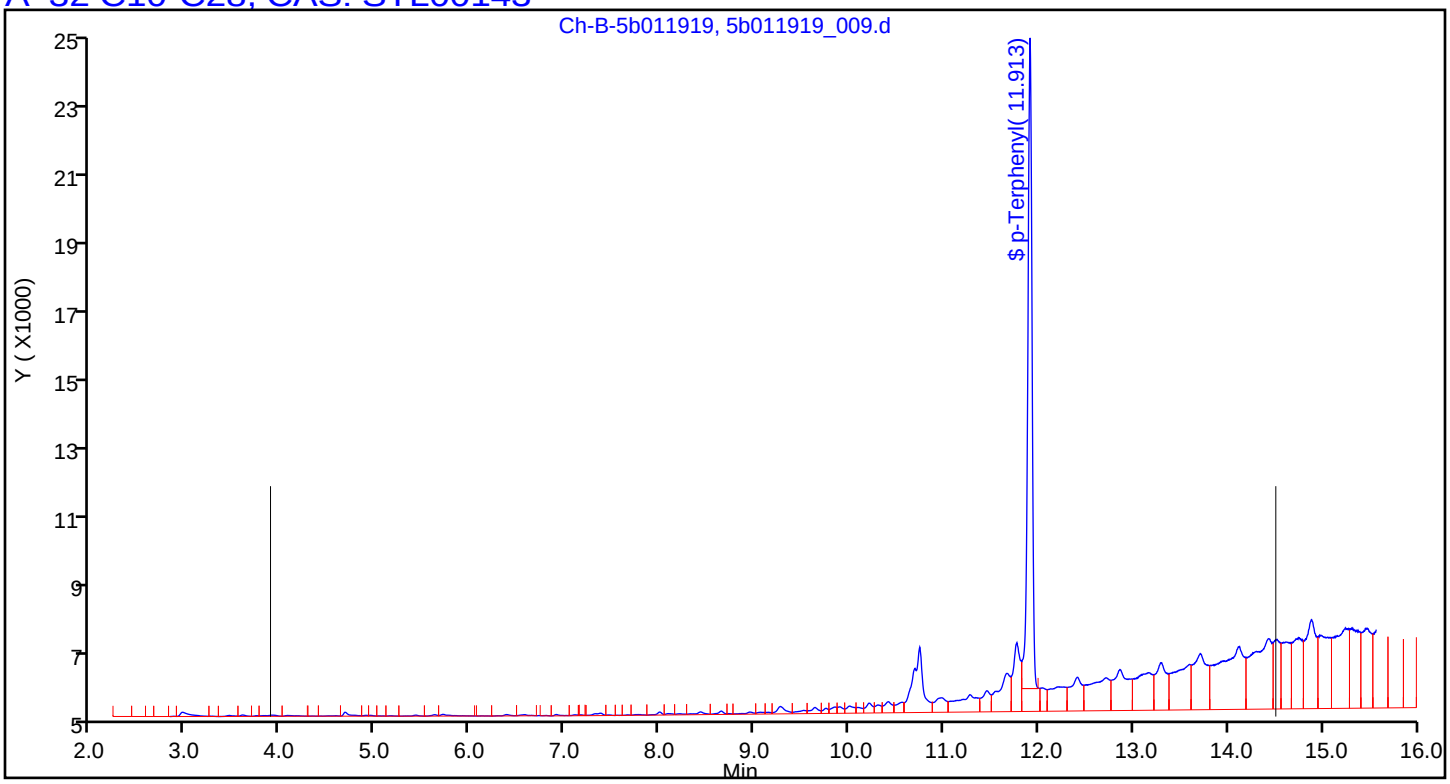
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	21.9	87.48

Report Date: 21-Jan-2019 10:53:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_009.d				
Injection Date:	19-Jan-2019 16:42:56	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-29-E	Lab Sample ID:	720-90673-29		
Client ID:	DG-AR9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

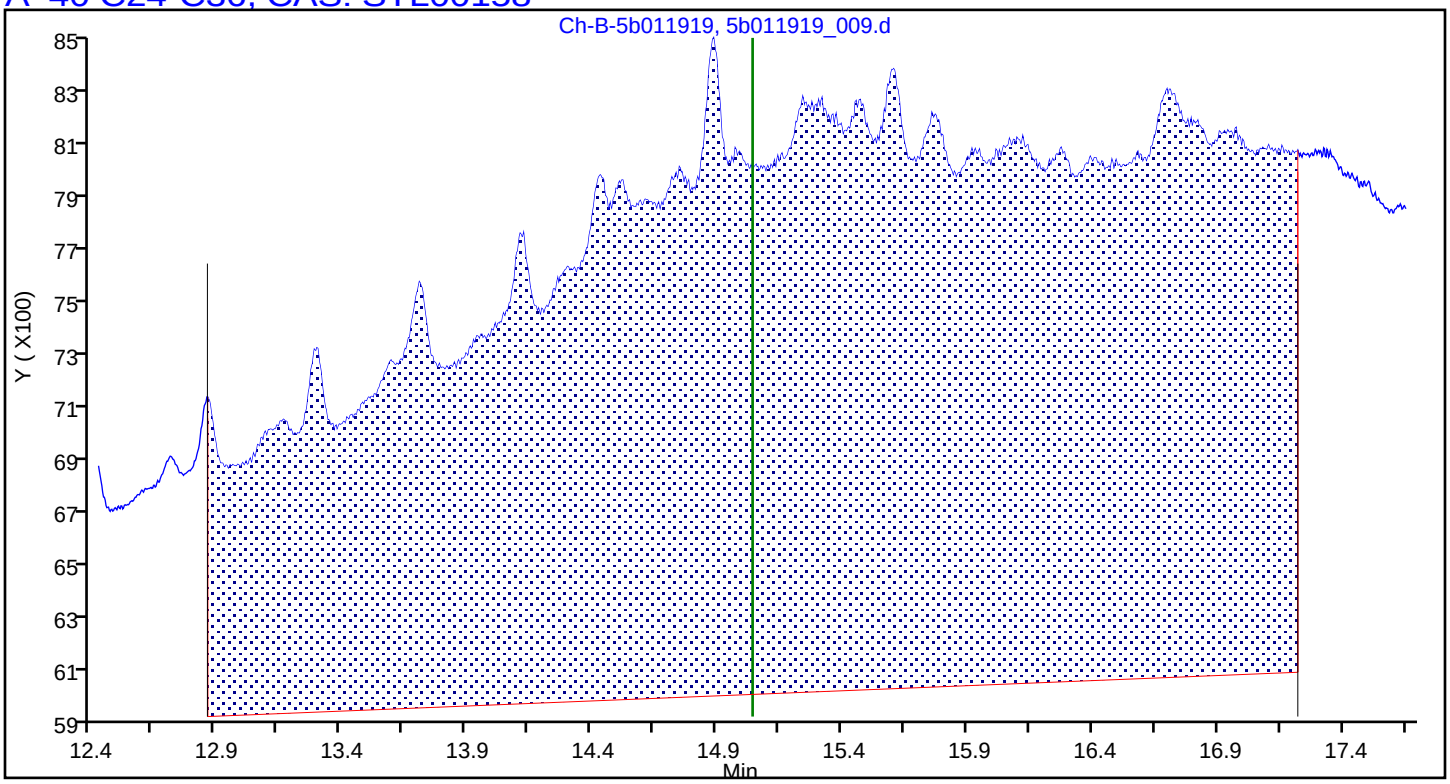


Report Date: 21-Jan-2019 10:53:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_009.d				
Injection Date:	19-Jan-2019 16:42:56	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-29-E	Lab Sample ID:	720-90673-29		
Client ID:	DG-AR9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000020.D
Lims ID: 720-90673-E-30-C
Client ID: DUP-65
Sample Type: Client
Inject. Date: 18-Jan-2019 19:48:00 ALS Bottle#: 70 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056161-020
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Jan-2019 11:54:55 Calib Date: 18-Jan-2019 09:24:14
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 11:54:55

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	1.436	1.350	0.086	94481	NC	M
23 n-Decane	2.210	2.203	0.007	434515	NC	M
A 1 C9-C13	2.806	(1.350-4.263)		18013236	NC	M
A 21 Stoddard Solvent	2.806	(1.350-4.263)		18013236	7.56	M
A 57 C10-C12	2.927	(2.203-3.651)		10262875	5.19	M
24 Dodecane	3.655	3.651	0.004	862496	NC	M
A 3 C9 - C17	3.832	(1.350-6.314)		49643319	17.3	M
A 60 C10-C16	4.023	(2.203-5.844)		37729921	14.7	M
A 47 C9 - C18	4.054	(1.350-6.759)		62265339	27.4	M
26 C13	4.271	4.263	0.008	778415	NC	M
A 15 Kerosene	4.266	(1.350-7.183)		74263315	32.7	M
A 25 C9-C19	4.266	(1.350-7.183)		74263315	25.7	M
$ 27 n-Decanoic Acid (Surr)		4.615			ND	U
A 59 C12-C16	4.747	(3.651-5.844)		27467046	13.9	M
A 61 C10-C20	4.896	(2.203-7.589)		119958287	60.7	M
A 28 C9-C24	5.203	(1.350-9.055)		314332898	159.0	M
A 29 C9-C25	5.369	(1.350-9.388)		339995043	171.9	M
A 54 C10-C23	5.457	(2.203-8.711)		222873937	112.7	M
A 4 C10-C24	5.629	(2.203-9.055)		311824207	157.7	M
A 16 C10-C25	5.795	(2.203-9.388)		337486352	170.7	M
45 Hexadecane	5.843	5.844	-0.001	2154440	NC	M
A 14 C10-C26	5.956	(2.203-9.708)		427405830	216.1	M
A 67 C12-C22	6.002	(3.651-8.352)		200702529	101.5	M
A 5 Diesel	6.260	(2.203-10.316)		739276594	373.8	M
A 12 Unknown Hydrocarbons	6.260	(2.203-10.316)		739276594	NC	M
A 32 C10-C28	6.260	(2.203-10.316)		739276594	373.8	M
A 30 C13-C22	6.307	(4.263-8.352)		195460859	98.8	M
44 Heptadecane	6.313	6.314	-0.001	2995508	NC	M
A 31 C12-C24	6.353	(3.651-9.055)		301561332	152.5	M
49 n-Octadecane	6.754	6.759	-0.005	4097035	NC	M
A 9 Crude Oil Range Organics (	6.874	(1.350-12.399)		2446981131	NC	M
A 11 Bunker Range Organics (C9-	6.874	(1.350-12.399)		2446981131	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.874	(1.350-12.399)		2446981131	1063.2	M
33 C19	7.186	7.183	0.003	8005835	NC	M
A 64 C13-C28	7.290	(4.263-10.316)		723772049	366.0	M
A 17 C10-C36	7.301	(2.203-12.399)		2444472440	1236.2	M
A 68 Crude Oil Range Organics (	7.362	(1.350-13.374)		4728391903	NC	M
A 13 C9-C40	7.362	(1.350-13.374)		4728391903	2667.5	M
A 58 C16-C24	7.450	(5.844-9.055)		276248726	139.7	M
62 icosane	7.585	7.589	-0.004	5802930	NC	M
A 6 C10-C40	7.789	(2.203-13.374)		4725883212	2669.1	M
$ 34 p-Terphenyl	8.047	8.057	-0.010	47326537	20.1	M
35 n-Docosane	8.352	8.352	0.000	10952890	NC	M
A 18 C12-C40	8.513	(3.651-13.374)		4715620337	2673.0	M
36 Tricosane	8.712	8.711	0.001	43809451	NC	M
A 66 C13-C40	8.819	(4.263-13.374)		4710378667	2672.5	M
37 n-Tetracosane	9.058	9.055	0.003	25662145	NC	M
A 2 C16-C36 ORO	9.121	(5.844-12.399)		2408896959	1779.1	M
38 C25	9.388	9.388	0.000	89919478	NC	M
A 19 C16-C40	9.609	(5.844-13.374)		4690307731	2666.5	M
46 n-Hexacosane	9.718	9.708	0.010	85983098	NC	M
A 20 C19-C36	9.791	(7.183-12.399)		1895845350	1177.6	
A 55 C23-C32	10.065	(8.711-11.420)		1409010829	1588.4	M
39 n-Octacosane	10.257	10.316	-0.059	102609191	NC	M
65 C29	10.612	10.606	0.006	74392355	NC	M
A 40 C24-C36	10.727	(9.055-12.399)		2205492867	1906.5	M
A 7 Motor Oil	10.727	(9.055-12.399)		1886570963	1630.8	
A 10 C22-C40	10.863	(8.352-13.374)		2634752667	1627.5	
A 50 C25-C36	10.893	(9.388-12.399)		1739893837	1607.3	
A 41 C23-C40	11.042	(8.711-13.374)		2628084527	1654.9	
A 8 C24-C40	11.215	(9.055-13.374)		2749638616	1769.1	
56 Dotriacontane	11.413	11.420	-0.007	68491678	NC	M
A 51 C28-C40	11.845	(10.316-13.374)		2424972724	1949.4	
A 63 C29-C40	11.990	(10.606-13.374)		2269196634	1987.1	
42 n-Hexatriacontane	12.468	12.399	0.069	204939361	NC	M
43 C40		13.374			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

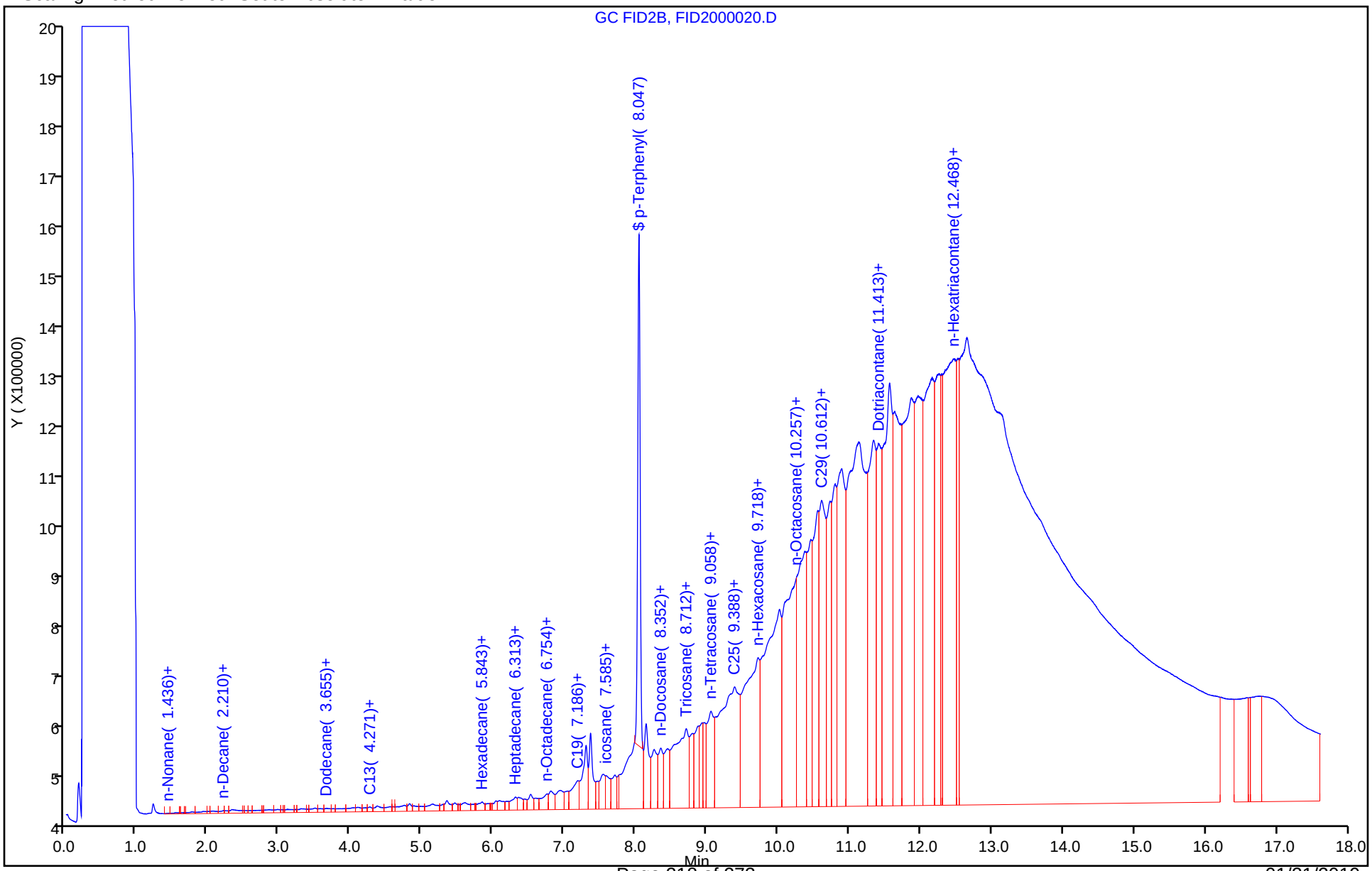
Report Date: 21-Jan-2019 11:54:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000020.D

Injection Date:	18-Jan-2019 19:48:00	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-30-C	Lab Sample ID:	720-90673-30	Worklist Smp#:	20
Client ID:	DUP-65				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	70
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000020.D
Lims ID: 720-90673-E-30-C
Client ID: DUP-65
Sample Type: Client
Inject. Date: 18-Jan-2019 19:48:00 ALS Bottle#: 70 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056161-020
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Jan-2019 11:54:55 Calib Date: 18-Jan-2019 09:24:14
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 11:54:55

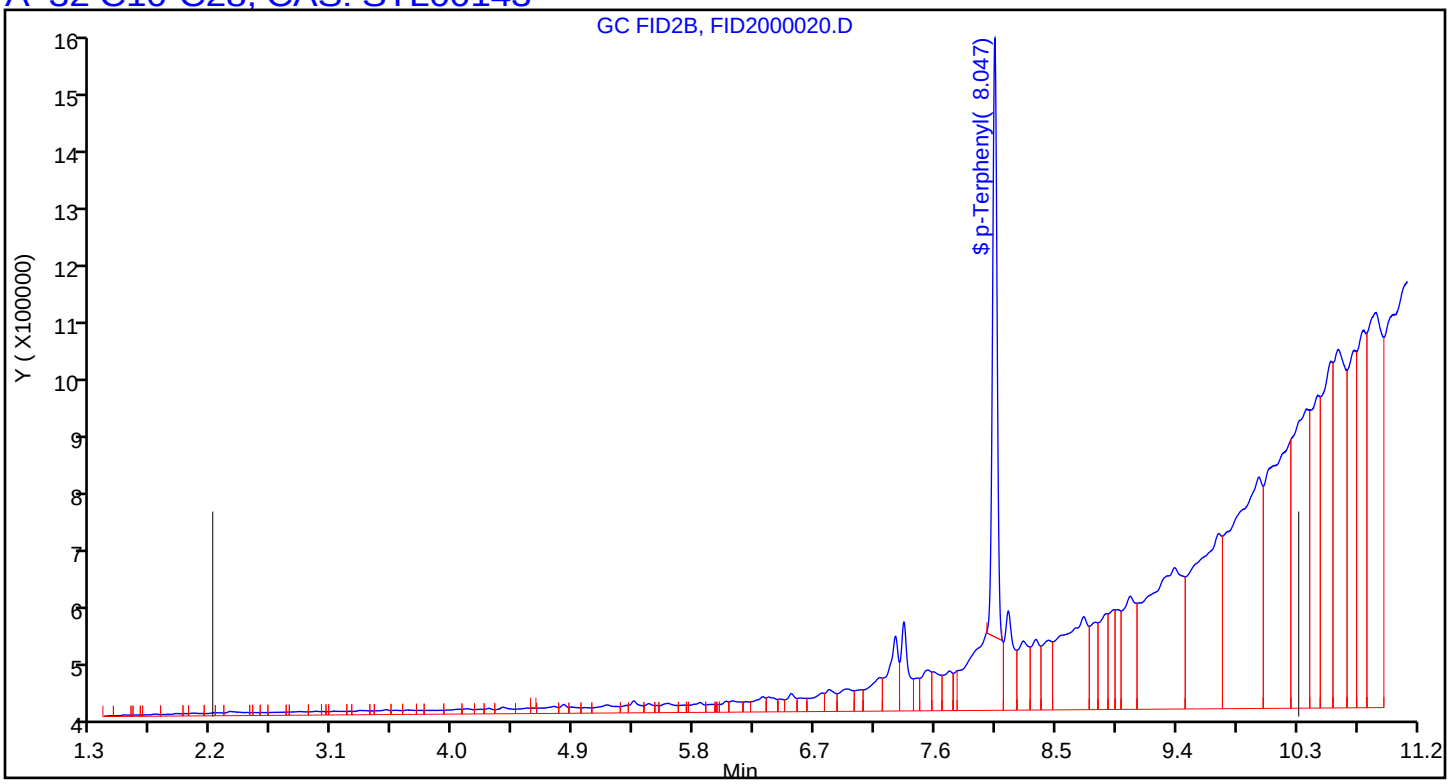
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.1	80.28

Report Date: 21-Jan-2019 11:54:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000020.D				
Injection Date:	18-Jan-2019 19:48:00	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-30-C	Lab Sample ID:	720-90673-30		
Client ID:	DUP-65				
Operator ID:	RLU	ALS Bottle#:	70	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

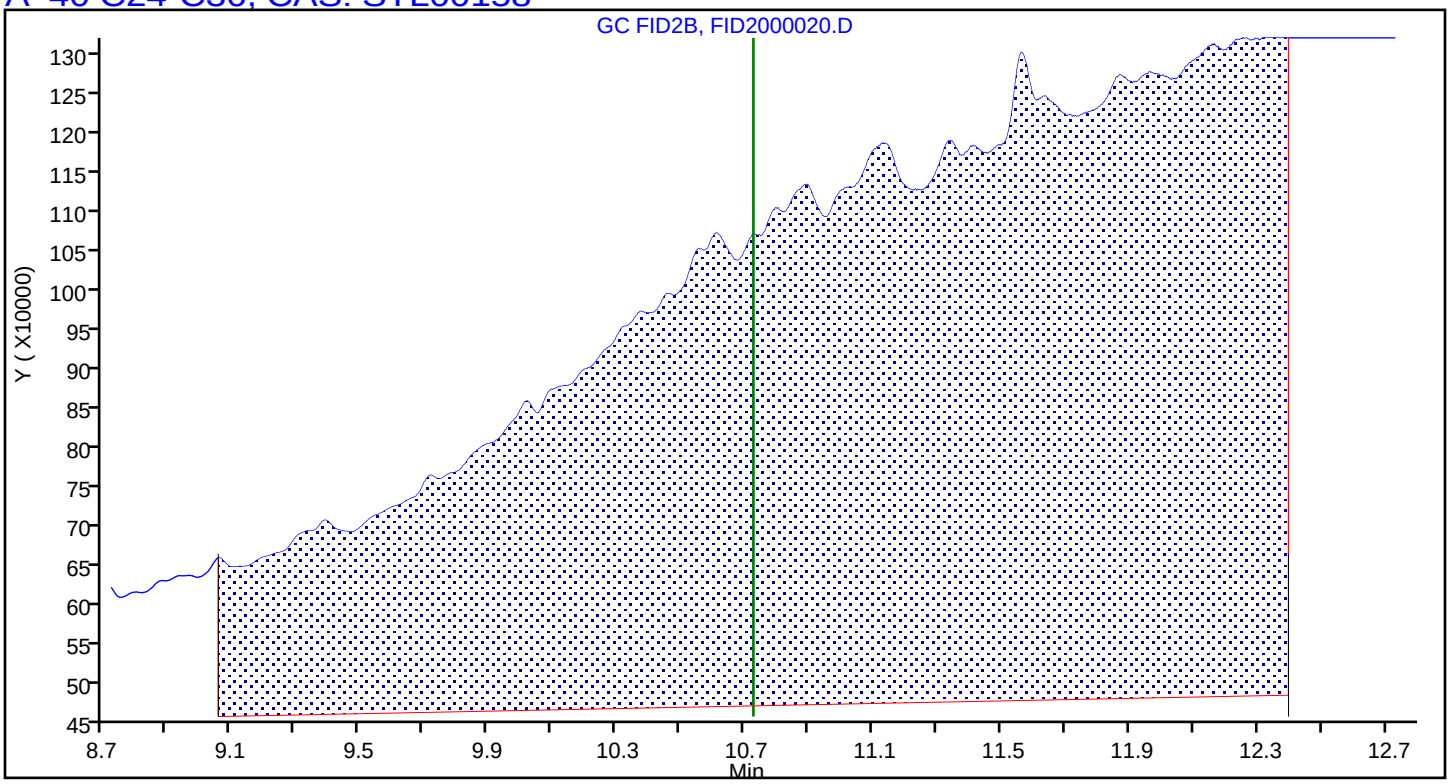


Report Date: 21-Jan-2019 11:55:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000020.D				
Injection Date:	18-Jan-2019 19:48:00	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-30-C	Lab Sample ID:	720-90673-30		
Client ID:	DUP-65				
Operator ID:	RLU	ALS Bottle#:	70	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

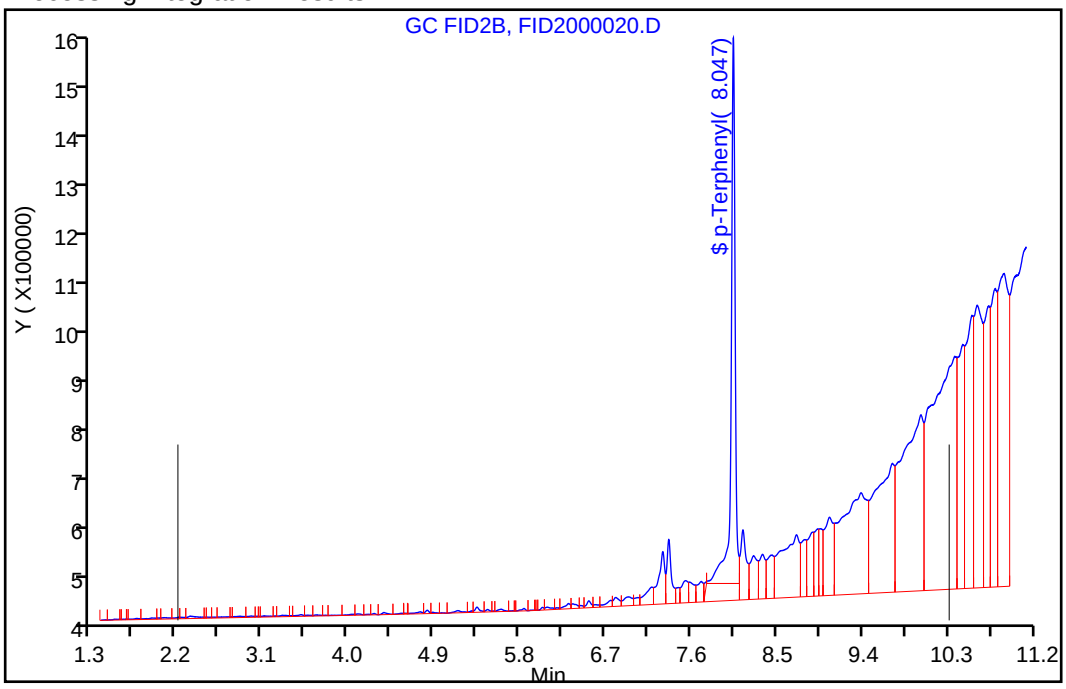
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000020.D				
Injection Date:	18-Jan-2019 19:48:00	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-30-C	Lab Sample ID:	720-90673-30		
Client ID:	DUP-65				
Operator ID:	RLU	ALS Bottle#:	70	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

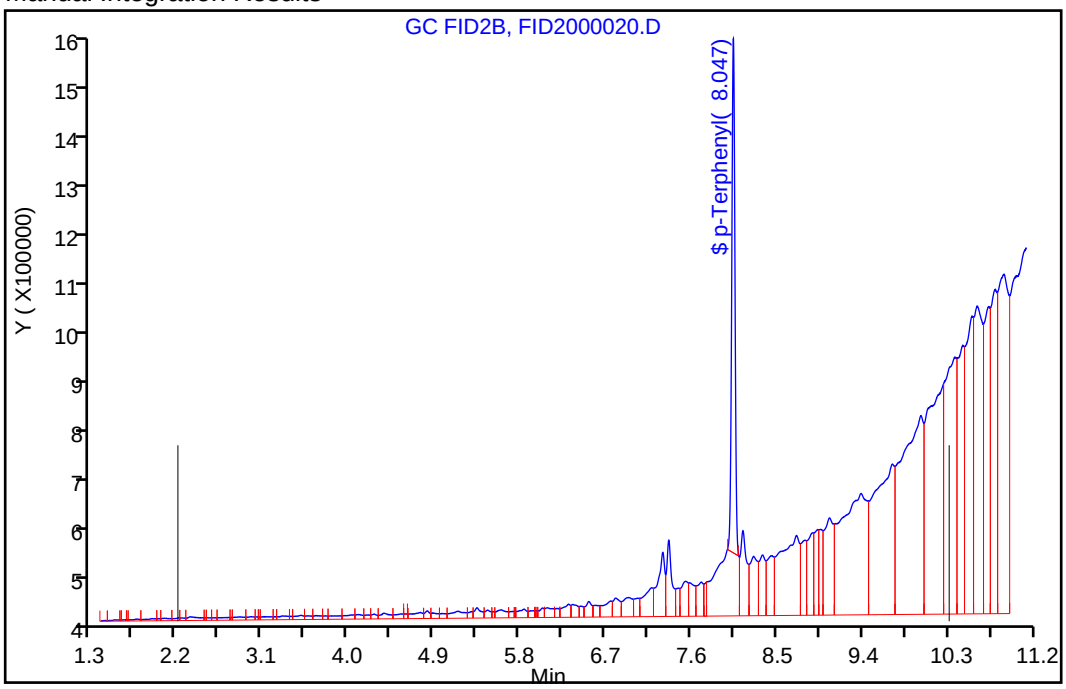
Processing Integration Results

RT: 6.26
Response: 445535635
Amount: 225.3048



Manual Integration Results

RT: 6.26
Response: 739276594
Amount: 373.8479



Reviewer: luj, 21-Jan-2019 11:54:46

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

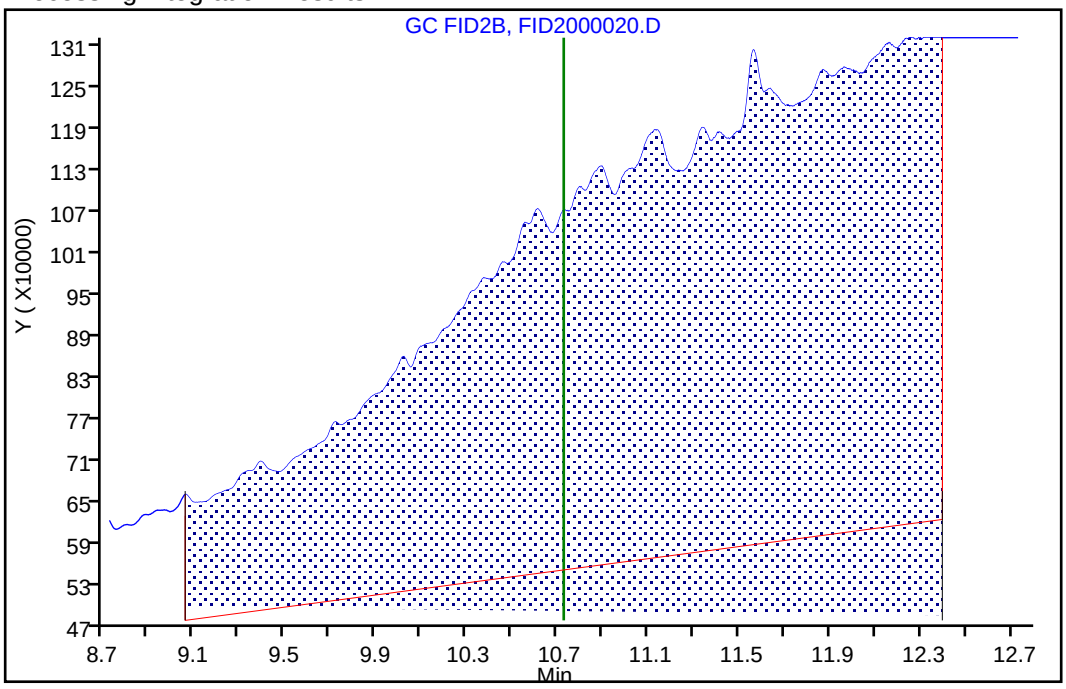
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000020.D				
Injection Date:	18-Jan-2019 19:48:00	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-30-C	Lab Sample ID:	720-90673-30		
Client ID:	DUP-65				
Operator ID:	RLU	ALS Bottle#:	70	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.727, CAS: STL00158

Signal: 1

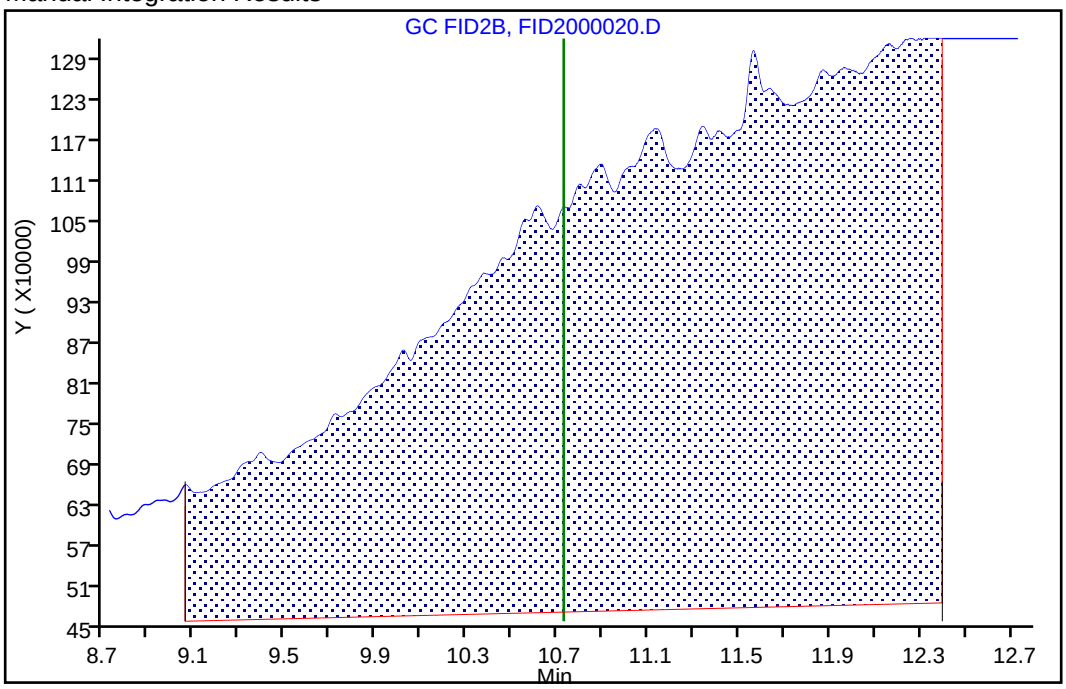
Processing Integration Results

RT: 10.73
Response: 1887360761
Amount: 1631.5275



Manual Integration Results

RT: 10.73
Response: 2205492867
Amount: 1906.5366



Reviewer: luj, 21-Jan-2019 11:54:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

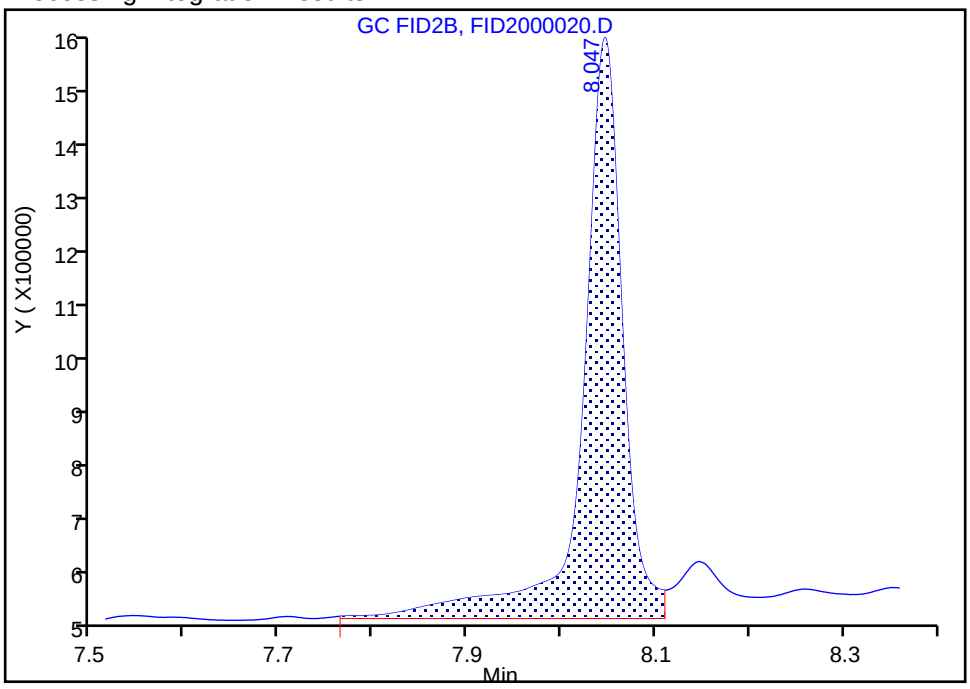
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000020.D				
Injection Date:	18-Jan-2019 19:48:00	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-30-C	Lab Sample ID:	720-90673-30		
Client ID:	DUP-65				
Operator ID:	RLU	ALS Bottle#:	70	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

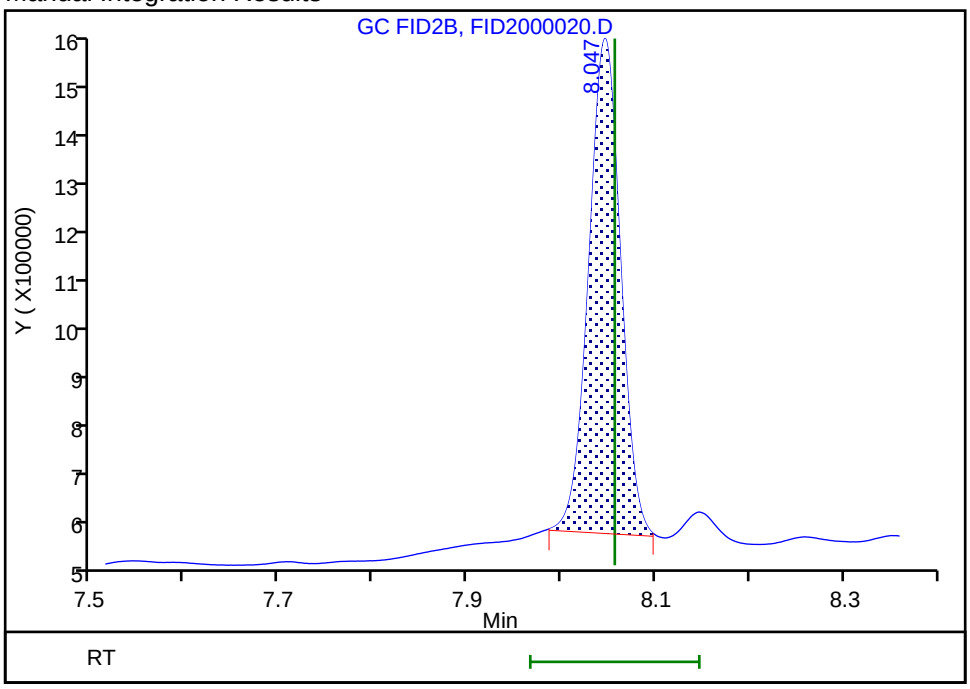
Processing Integration Results

RT: 8.05
Area: 64207257
Amount: 27.228987
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 47326537
Amount: 20.070218
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 11:54:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000023.D
Lims ID: 720-90673-E-31-C
Client ID: DG-AD9S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 21:30:14 ALS Bottle#: 73 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 720-0056161-023
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Jan-2019 11:56:00 Calib Date: 18-Jan-2019 09:24:14
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 11:56:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	1.350	1.350	0.000	119962	NC	M
23 n-Decane	2.203	2.203	0.000	620014	NC	M
A 1 C9-C13	2.806	(1.350-4.263)		24750405	NC	M
A 21 Stoddard Solvent	2.806	(1.350-4.263)		24750405	10.4	M
A 57 C10-C12	2.927	(2.203-3.651)		13081106	6.62	M
24 Dodecane	3.657	3.651	0.006	1475741	NC	M
A 3 C9 - C17	3.832	(1.350-6.314)		91092064	31.7	M
A 60 C10-C16	4.023	(2.203-5.844)		68791938	26.9	M
A 47 C9 - C18	4.054	(1.350-6.759)		119900183	52.8	M
26 C13	4.264	4.263	0.001	2161456	NC	M
A 15 Kerosene	4.266	(1.350-7.183)		161076485	70.9	M
A 25 C9-C19	4.266	(1.350-7.183)		161076485	55.8	M
$ 27 n-Decanoic Acid (Surr)		4.615			ND	U
A 59 C12-C16	4.747	(3.651-5.844)		55710832	28.2	M
A 61 C10-C20	4.896	(2.203-7.589)		262757730	132.9	M
A 28 C9-C24	5.203	(1.350-9.055)		860228933	435.0	M
A 29 C9-C25	5.369	(1.350-9.388)		1042273647	527.1	M
A 54 C10-C23	5.457	(2.203-8.711)		735351710	371.9	M
A 4 C10-C24	5.629	(2.203-9.055)		857253299	433.5	M
A 16 C10-C25	5.795	(2.203-9.388)		1039298013	525.6	M
45 Hexadecane	5.843	5.844	-0.001	4359120	NC	M
A 14 C10-C26	5.956	(2.203-9.708)		1191637792	602.6	M
A 67 C12-C22	6.002	(3.651-8.352)		516754538	261.3	M
A 5 Diesel	6.260	(2.203-10.316)		1583934407	801.0	M
A 12 Unknown Hydrocarbons	6.260	(2.203-10.316)		1583934407	NC	M
A 32 C10-C28	6.260	(2.203-10.316)		1583934407	801.0	M
A 30 C13-C22	6.307	(4.263-8.352)		508060873	256.9	M
44 Heptadecane	6.357	6.314	0.043	7202427	NC	M
A 31 C12-C24	6.353	(3.651-9.055)		844172193	426.9	M
49 n-Octadecane	6.815	6.759	0.056	19299801	NC	M
A 9 Crude Oil Range Organics (	6.874	(1.350-12.399)		3130611559	NC	M
A 11 Bunker Range Organics (C9-	6.874	(1.350-12.399)		3130611559	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.874	(1.350-12.399)		3130611559	1360.2	M
33 C19	7.228	7.183	0.045	31953979	NC	M
A 64 C13-C28	7.290	(4.263-10.316)		1562159636	790.0	M
A 17 C10-C36	7.301	(2.203-12.399)		3127635925	1581.6	M
A 68 Crude Oil Range Organics (	7.362	(1.350-13.374)		4529347393	NC	M
A 13 C9-C40	7.362	(1.350-13.374)		4529347393	2555.2	M
A 58 C16-C24	7.450	(5.844-9.055)		792820481	400.9	M
62 icosane	7.530	7.589	-0.059	35058886	NC	M
A 6 C10-C40	7.789	(2.203-13.374)		4526371759	2556.4	M
$ 34 p-Terphenyl		8.057			ND	U
35 n-Docosane	8.357	8.352	0.005	28358884	NC	M
A 18 C12-C40	8.513	(3.651-13.374)		4513290653	2558.4	M
36 Tricosane	8.708	8.711	-0.003	60315022	NC	M
A 66 C13-C40	8.819	(4.263-13.374)		4504596988	2555.7	M
37 n-Tetracosane	9.068	9.055	0.013	76619584	NC	M
A 2 C16-C36 ORO	9.121	(5.844-12.399)		3063203107	2262.3	M
38 C25	9.401	9.388	0.013	67041473	NC	M
A 19 C16-C40	9.609	(5.844-13.374)		4461938941	2536.7	M
46 n-Hexacosane	9.752	9.708	0.044	83312598	NC	M
A 20 C19-C36	9.791	(7.183-12.399)		2386676331	1482.5	
A 55 C23-C32	10.065	(8.711-11.420)		1770104507	1995.5	M
39 n-Octacosane	10.262	10.316	-0.054	37042480	NC	M
65 C29	10.606	10.606	0.000	75884199	NC	M
A 40 C24-C36	10.727	(9.055-12.399)		2218199871	1917.5	M
A 7 Motor Oil	10.727	(9.055-12.399)		1953219307	1688.5	
A 10 C22-C40	10.863	(8.352-13.374)		2695780277	1665.2	
A 50 C25-C36	10.893	(9.388-12.399)		1743472731	1610.6	
A 41 C23-C40	11.042	(8.711-13.374)		2571567046	1619.3	
A 8 C24-C40	11.215	(9.055-13.374)		2472516592	1590.8	
56 Dotriacontane	11.414	11.420	-0.006	69065070	NC	M
A 51 C28-C40	11.845	(10.316-13.374)		1882126924	1513.1	
A 63 C29-C40	11.990	(10.606-13.374)		1710441740	1497.8	
42 n-Hexatriacontane	12.426	12.399	0.027	68162076	NC	M
43 C40		13.374			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

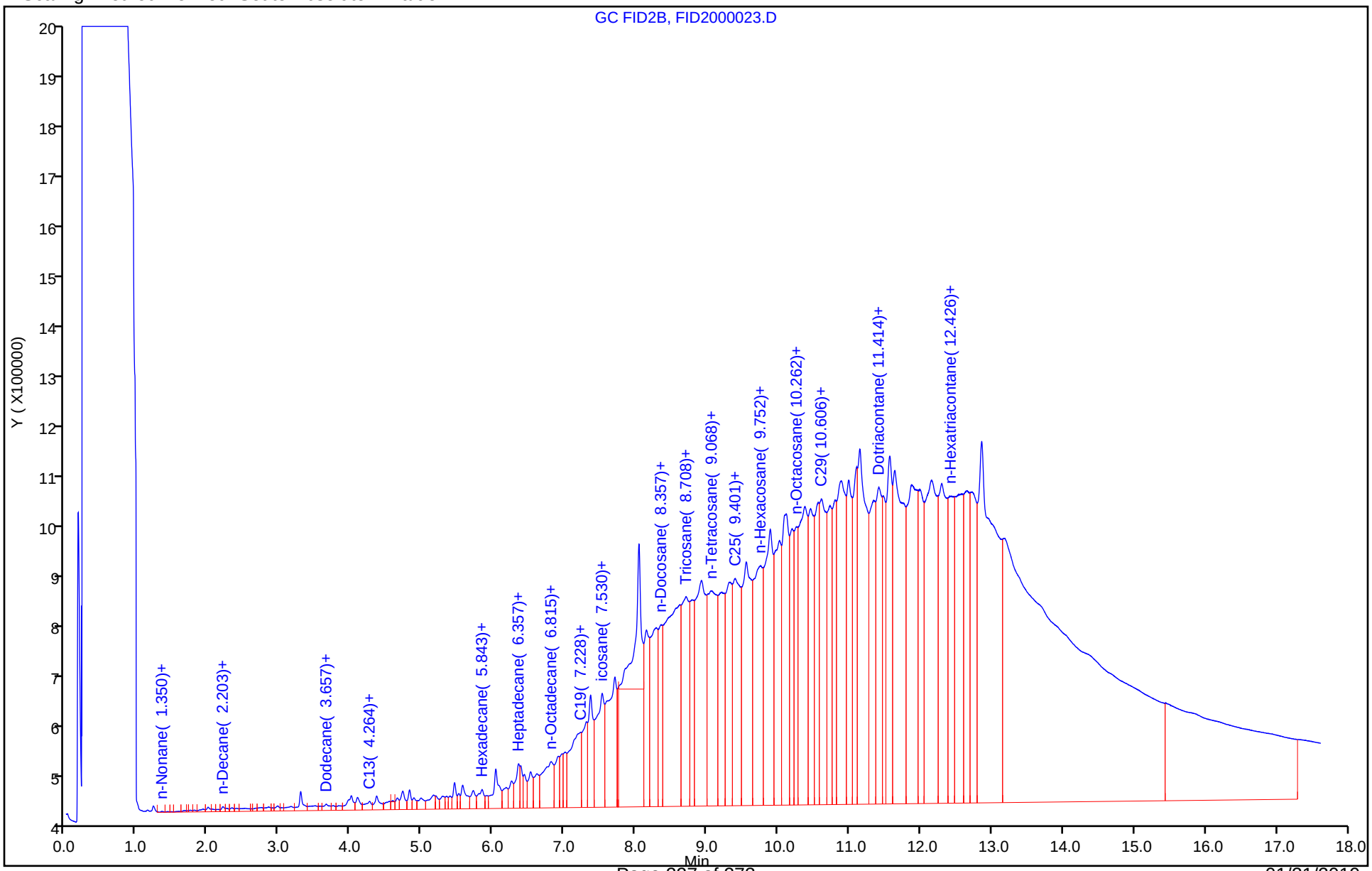
Report Date: 21-Jan-2019 11:56:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000023.D

Injection Date:	18-Jan-2019 21:30:14	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-31-C	Lab Sample ID:	720-90673-31	Worklist Smp#:	23
Client ID:	DG-AD9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	73
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

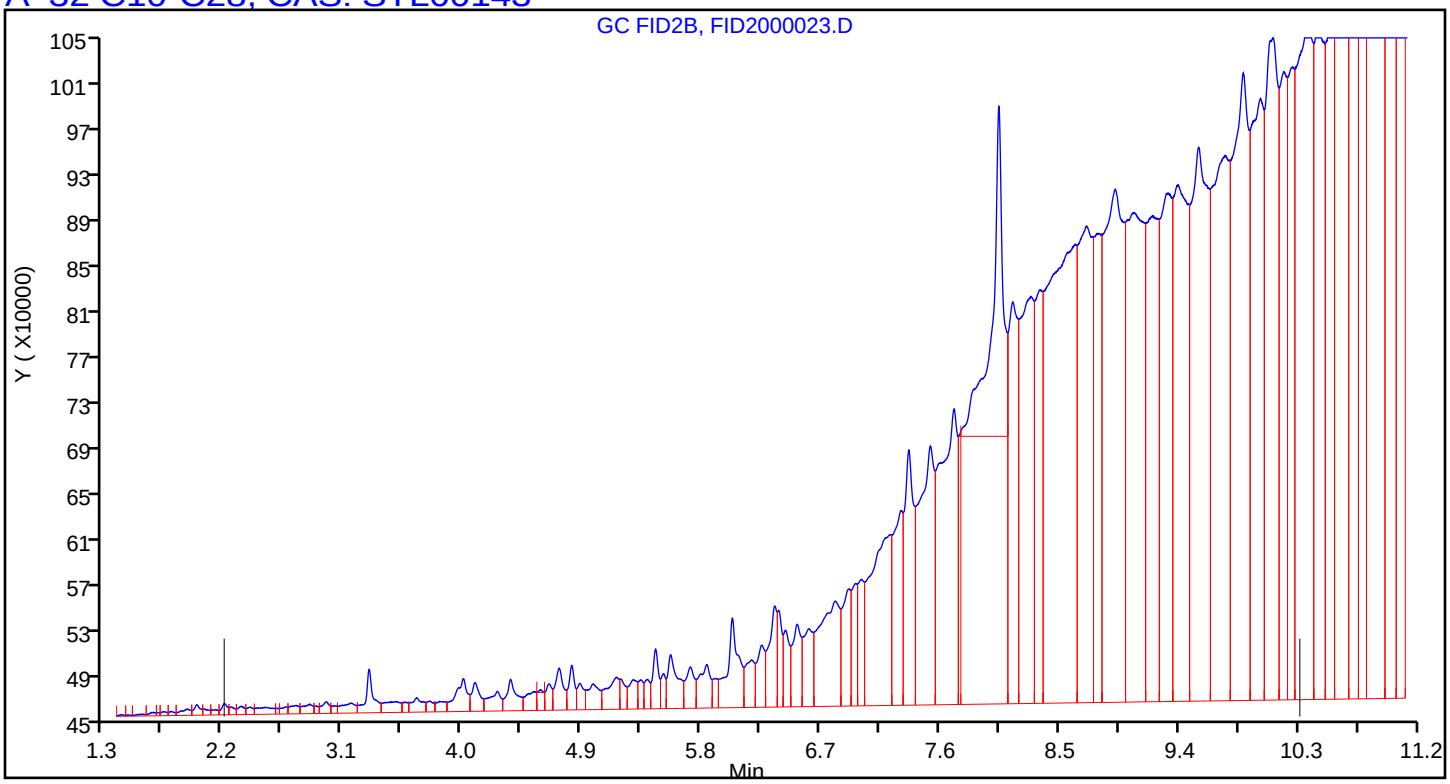


Report Date: 21-Jan-2019 11:56:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000023.D				
Injection Date:	18-Jan-2019 21:30:14	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-31-C	Lab Sample ID:	720-90673-31		
Client ID:	DG-AD9S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

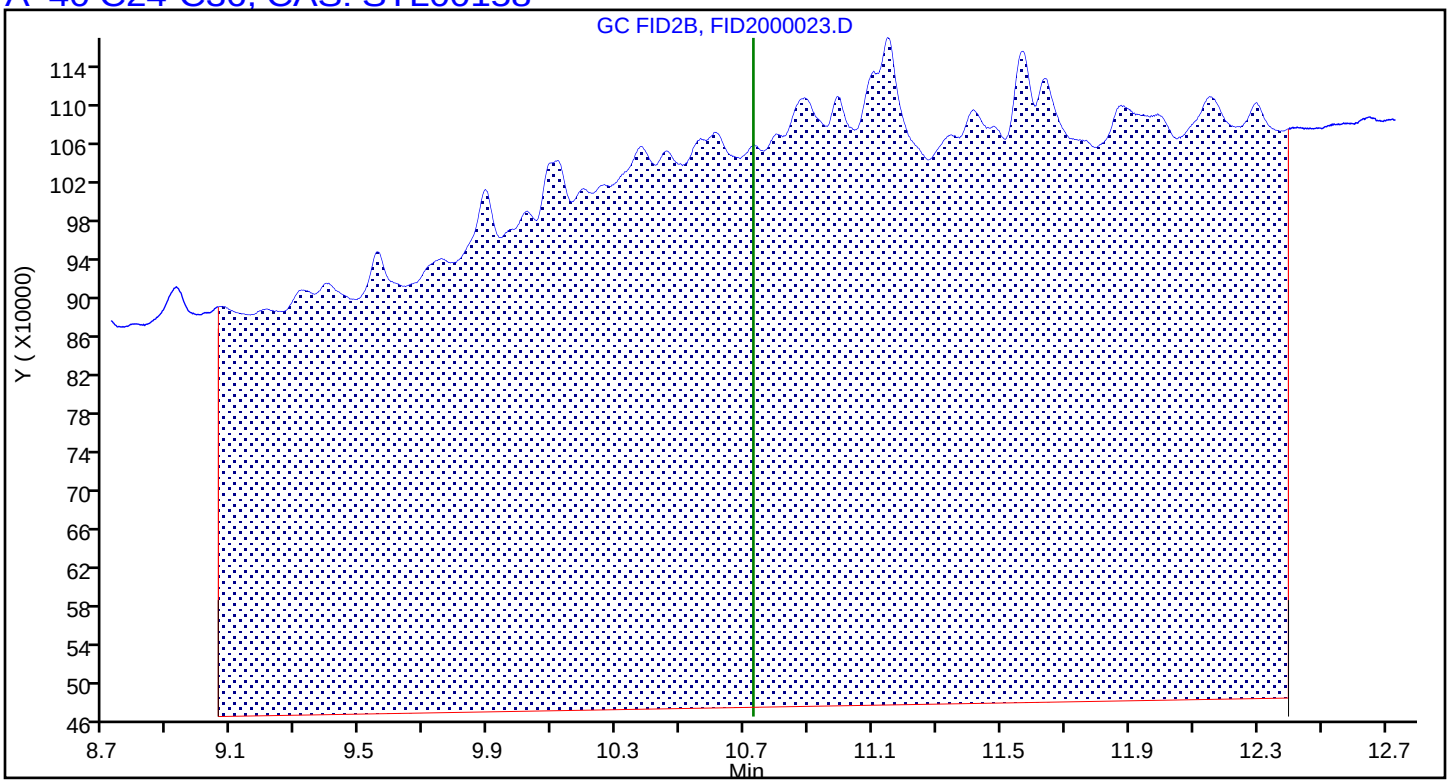


Report Date: 21-Jan-2019 11:56:07 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000023.D				
Injection Date:	18-Jan-2019 21:30:14	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-31-C	Lab Sample ID:	720-90673-31		
Client ID:	DG-AD9S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

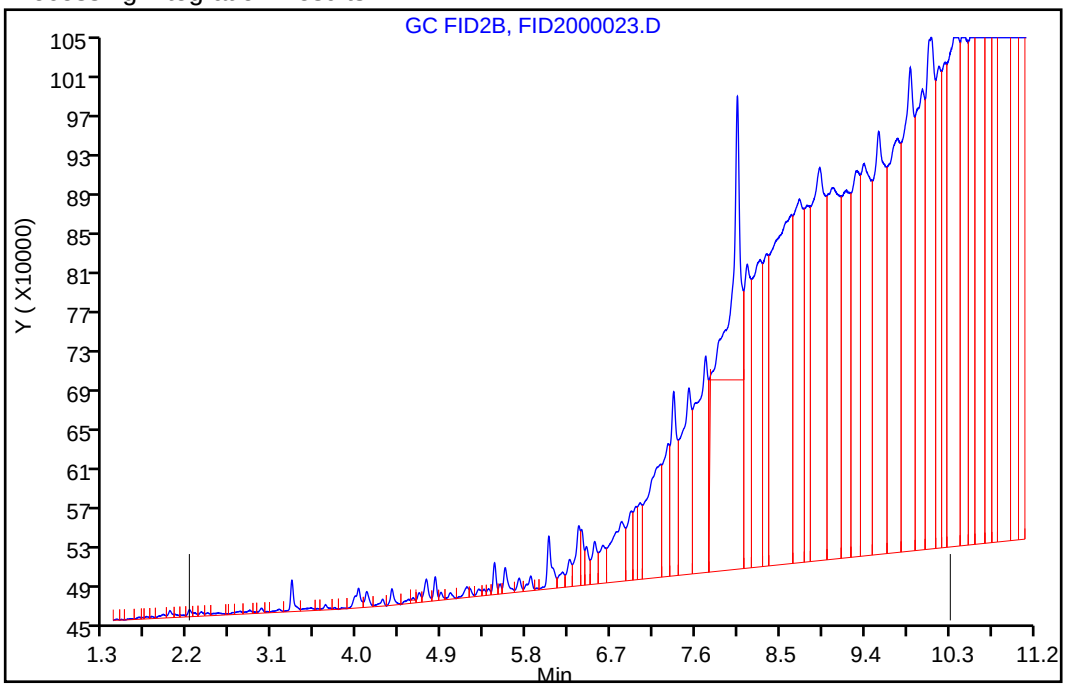
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Injection Date:	18-Jan-2019 21:30:14	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-31-C	Lab Sample ID:	720-90673-31		
Client ID:	DG-AD9S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

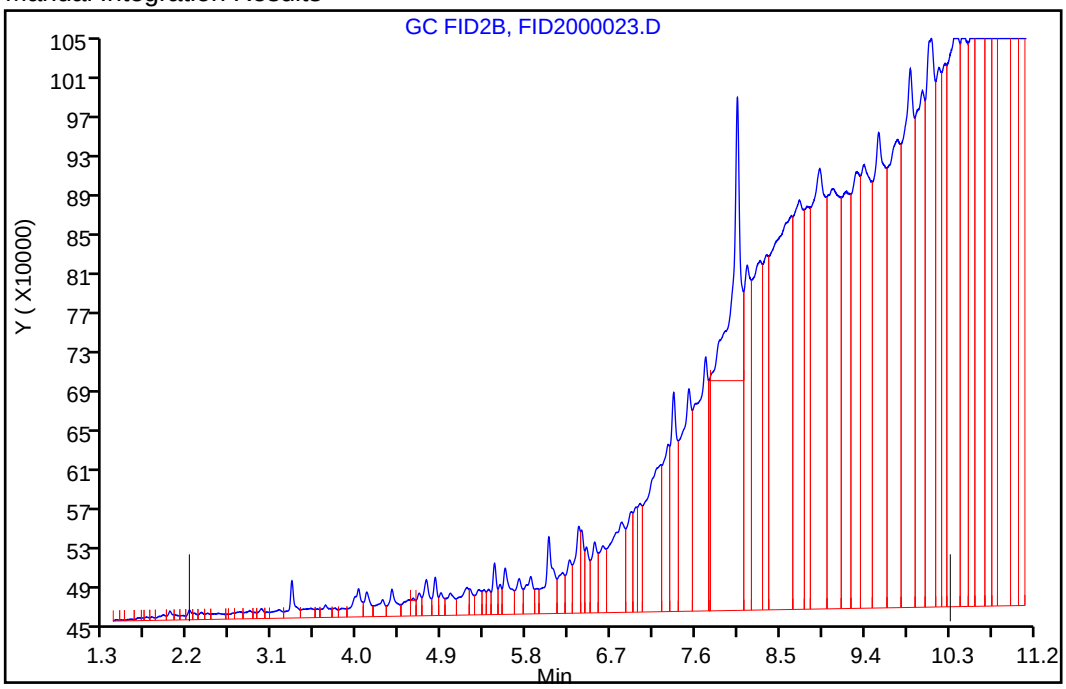
Processing Integration Results

RT: 6.26
Response: 1277125106
Amount: 645.8348



Manual Integration Results

RT: 6.26
Response: 1583934407
Amount: 800.9865



Reviewer: luj, 21-Jan-2019 11:55:50
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

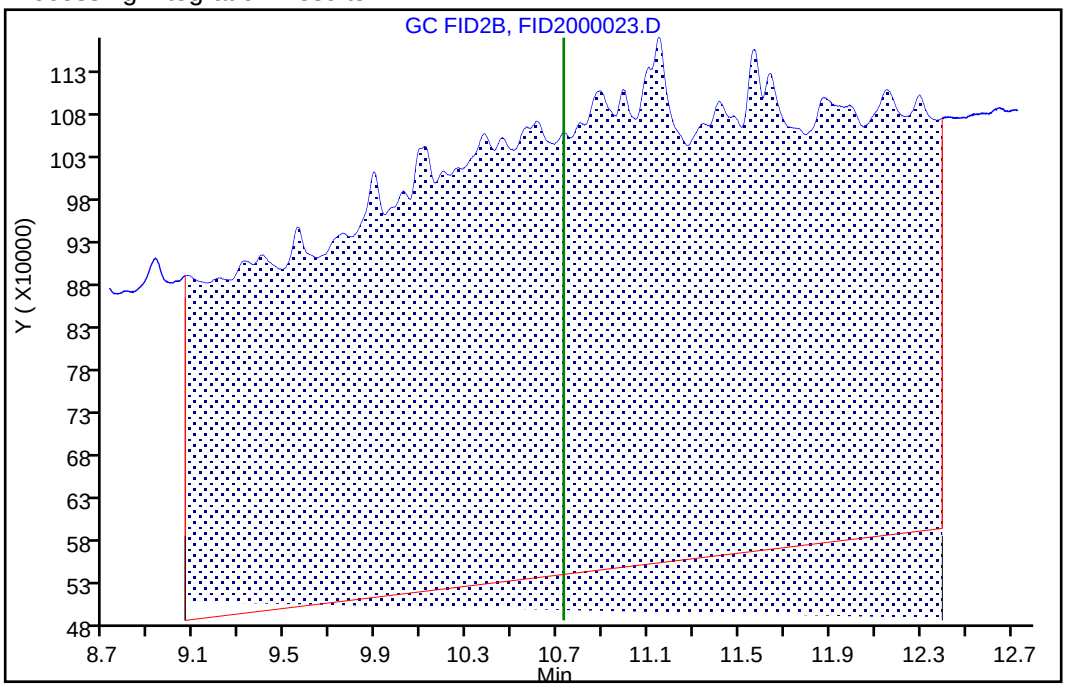
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000023.D				
Injection Date:	18-Jan-2019 21:30:14	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-31-C	Lab Sample ID:	720-90673-31		
Client ID:	DG-AD9S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.727, CAS: STL00158

Signal: 1

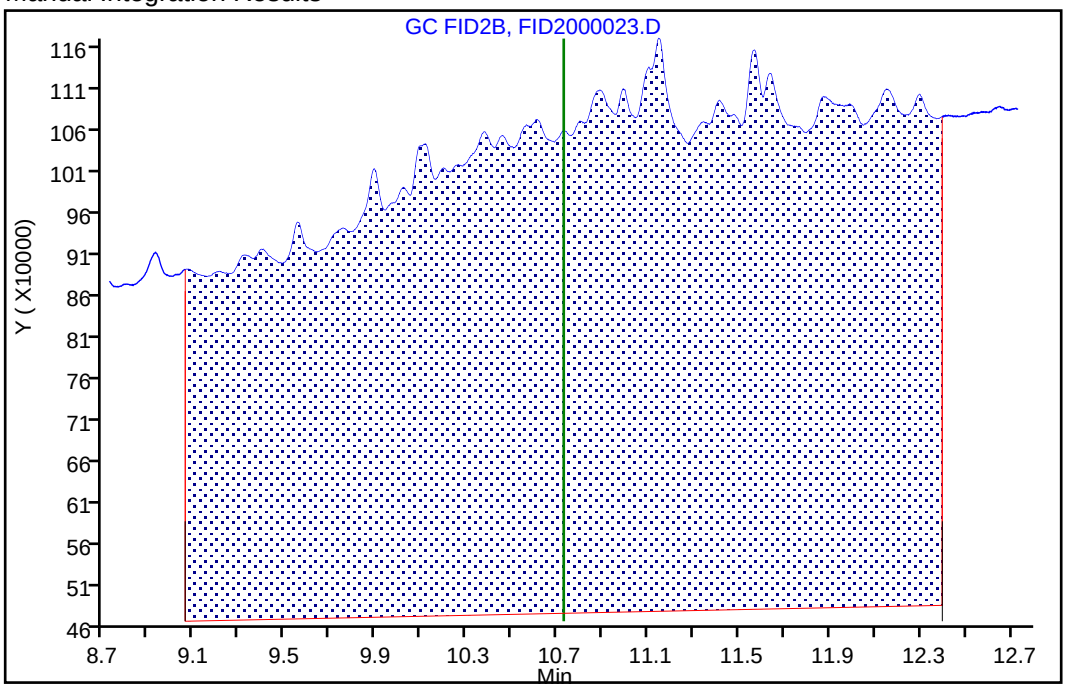
Processing Integration Results

RT: 10.73
Response: 1953219307
Amount: 1688.4589



Manual Integration Results

RT: 10.73
Response: 2218199871
Amount: 1917.5211



Reviewer: luj, 21-Jan-2019 11:55:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

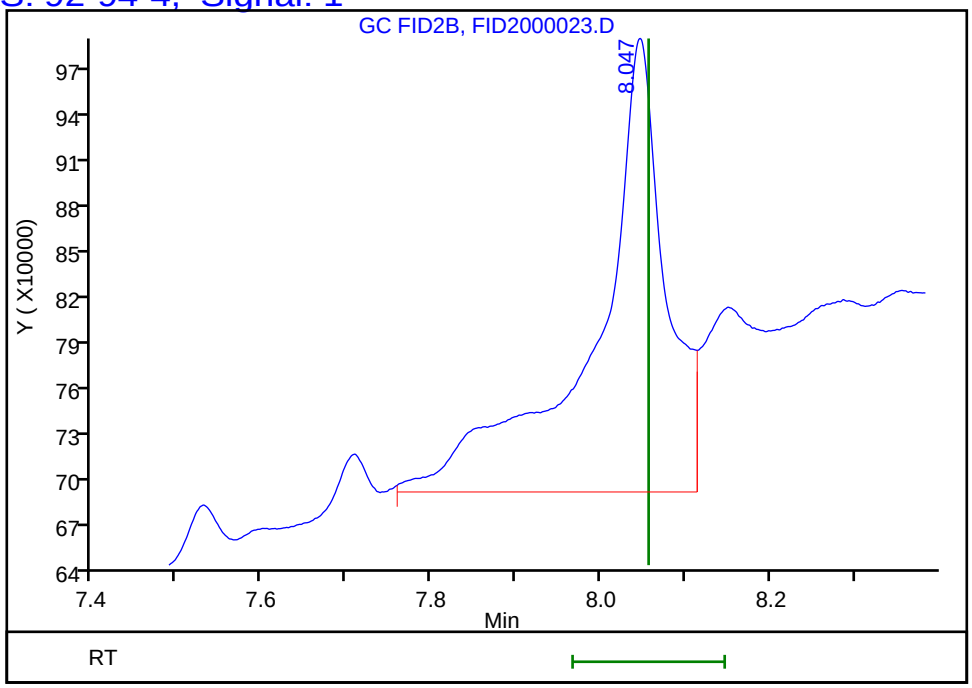
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000023.D				
Injection Date:	18-Jan-2019 21:30:14	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-31-C	Lab Sample ID:	720-90673-31		
Client ID:	DG-AD9S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	73	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.05
Response: 33811574
Amount: 14.338798



Reviewer: luj, 21-Jan-2019 11:56:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_010.d
Lims ID: 720-90673-E-32-C
Client ID: DG-AD9S-3.5-4
Sample Type: Client
Inject. Date: 19-Jan-2019 17:12:04 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 137 Name: 720-0056178-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m
Limit Group: DRO
Last Update: 21-Jan-2019 10:53:58 Calib Date: 19-Jan-2019 13:00:26
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 11:41:03

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.707	2.672	0.035	3692	NC	
	23 n-Decane	3.890	3.888	0.002	13590	NC	
A	1 C9-C13	4.625	(2.672-6.577)		303256	23.9	
A	21 Stoddard Solvent	4.625	(2.672-6.577)		303256	26.7	
A	57 C10-C12	4.833	(3.888-5.779)		201478	20.5	
	24 Dodecane	5.775	5.779	-0.004	11921	NC	
A	3 C9 - C17	5.978	(2.672-9.283)		903654	64.0	
A	47 C9 - C18	6.265	(2.672-9.858)		1341747	119.5	
A	60 C10-C16	6.269	(3.888-8.651)		695494	55.7	
A	15 Kerosene	6.542	(2.672-10.411)		1613928	143.4	
A	25 C9-C19	6.542	(2.672-10.411)		1613928	114.0	
	26 C13	6.571	6.577	-0.006	21338	NC	
$	27 n-Decanoic Acid (Surr)		7.187			ND	U
A	59 C12-C16	7.215	(5.779-8.651)		505937	51.5	
A	62 C10-C20	7.416	(3.888-10.944)		2449597	249.5	
A	28 C9-C24	7.767	(2.672-12.862)		5500452	560.2	
A	29 C9-C25	7.984	(2.672-13.296)		6627600	675.0	
A	54 C10-C23	8.149	(3.888-12.411)		4708374	479.6	
A	4 C10-C24	8.375	(3.888-12.862)		5465882	556.7	
A	16 C10-C25	8.592	(3.888-13.296)		6593030	671.5	
	45 Hexadecane	8.648	8.651	-0.003	54700	NC	
A	14 C10-C26	8.801	(3.888-13.715)		7001874	713.2	
A	67 C12-C22	8.861	(5.779-11.942)		3836206	390.7	
A	5 Diesel	9.198	(3.888-14.508)		8375365	853.0	
A	32 C10-C28	9.198	(3.888-14.508)		8375365	853.0	
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		8375365	NC	
A	30 C13-C22	9.260	(6.577-11.942)		3778415	384.8	
	44 Heptadecane	9.318	9.283	0.035	124018	NC	
A	31 C12-C24	9.321	(5.779-12.862)		5276325	537.4	
	49 n-Octadecane	9.845	9.858	-0.013	66396	NC	
A	52 Mineral oil	9.948	(2.672-17.223)		12745706	1173.2	
A	9 Crude Oil Range Organics (	9.948	(2.672-17.223)		12745706	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.948	(2.672-17.223)		14298406	NC	
33 C19	10.414	10.411	0.003	202626	NC	
A 64 C13-C28	10.543	(6.577-14.508)		8128017	827.9	
A 17 C10-C36	10.555	(4.000-17.223)		14263836	1452.8	
A 13 C9-C40	10.712	(2.672-18.752)		13886097	1775.5	
A 68 Crude Oil Range Organics (	10.712	(2.672-18.752)		13886097	NC	
A 58 C16-C24	10.756	(8.651-12.862)		4825088	491.4	
61 icosane	10.947	10.944	0.003	160065	NC	
A 6 C10-C40	11.320	(3.888-18.752)		13841446	1769.9	
$ 34 p-Terphenyl	11.917	11.913	0.004	206019	16.3	
35 n-Docosane		11.942			ND	
A 18 C12-C40	12.266	(5.779-18.752)		13638323	1743.7	
36 Tricosane	12.411	12.411	0.000	249176	NC	
A 66 C13-C40	12.665	(6.577-18.752)		12593032	1611.5	
37 n-Tetracosane	12.874	12.862	0.012	385864	NC	
A 2 C16-C36 ORO	12.937	(8.651-17.223)		7362319	1032.0	
38 C25	13.279	13.296	-0.017	390174	NC	
A 19 C16-C40	13.702	(8.651-18.752)		13092942	1675.3	
46 n-Hexacosane	13.716	13.715	0.001	282552	NC	
A 20 C19-C36	13.817	(10.411-17.223)		9601036	1231.3	
A 55 C23-C32	14.179	(12.411-15.946)		5361242	1305.2	
39 n-Octacosane	14.509	14.508	0.001	206424	NC	
65 C29	14.888	14.886	0.002	409711	NC	
A 40 C24-C36	15.043	(12.862-17.223)		6608250	1157.7	M
A 7 Motor Oil	15.043	(12.862-17.223)		6010692	1053.0	
A 50 C25-C36	15.260	(13.296-17.223)		5299206	984.7	
A 10 C22-C40	15.347	(11.942-18.752)		7972741	1006.4	
A 41 C23-C40	15.582	(12.411-18.752)		7544131	975.8	
A 8 C24-C40	15.807	(12.862-18.752)		6854110	918.9	
56 Dotriacontane	15.906	15.946	-0.040	466198	NC	
A 51 C28-C40	16.630	(14.508-18.752)		4245113	847.1	
A 63 C29-C40	16.819	(14.886-18.752)		3667138	820.2	
42 n-Hexatriacontane		17.223			ND	
43 C40		18.752			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

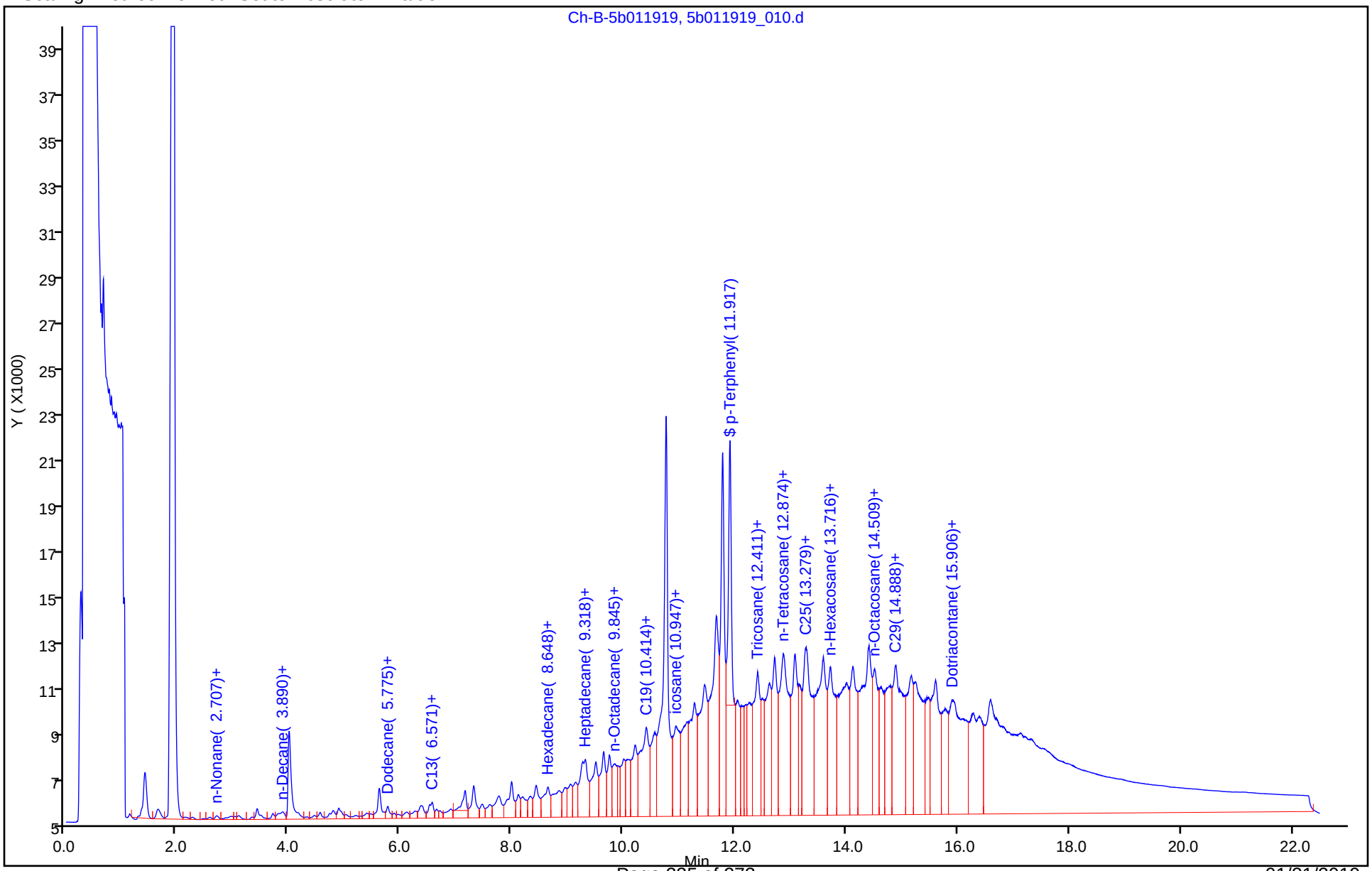
Report Date: 21-Jan-2019 11:41:05 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_010.d

Injection Date:	19-Jan-2019 17:12:04	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-32-C	Lab Sample ID:	720-90673-32	Worklist Smp#:	10
Client ID:	DG-AD9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_010.d				
Lims ID:	720-90673-E-32-C				
Client ID:	DG-AD9S-3.5-4				
Sample Type:	Client				
Inject. Date:	19-Jan-2019 17:12:04	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 137 Name: 720-0056178-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 10:53:58	Calib Date:	19-Jan-2019 13:00:26		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 11:41:03

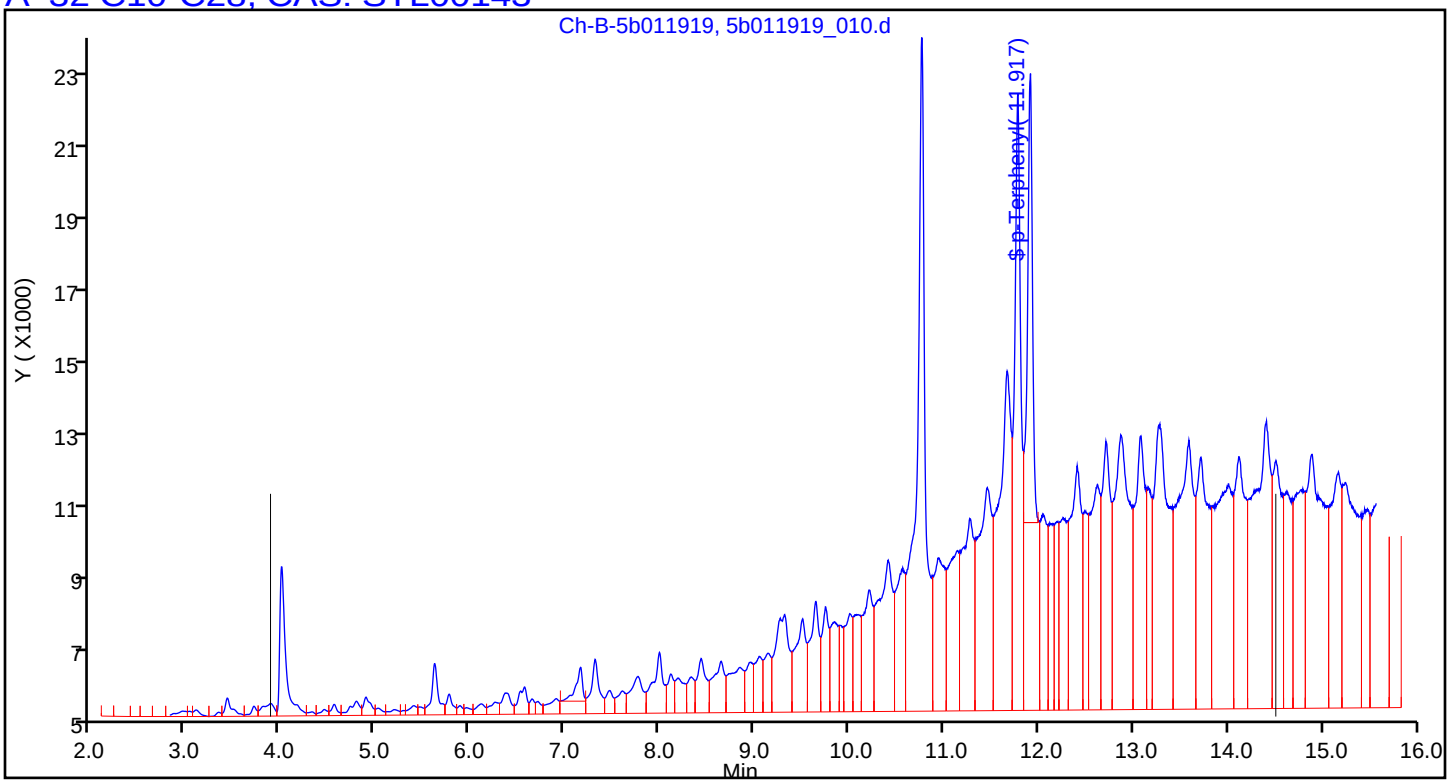
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	16.3	65.39

Report Date: 21-Jan-2019 11:41:05 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_010.d				
Injection Date:	19-Jan-2019 17:12:04	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-32-C	Lab Sample ID:	720-90673-32		
Client ID:	DG-AD9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

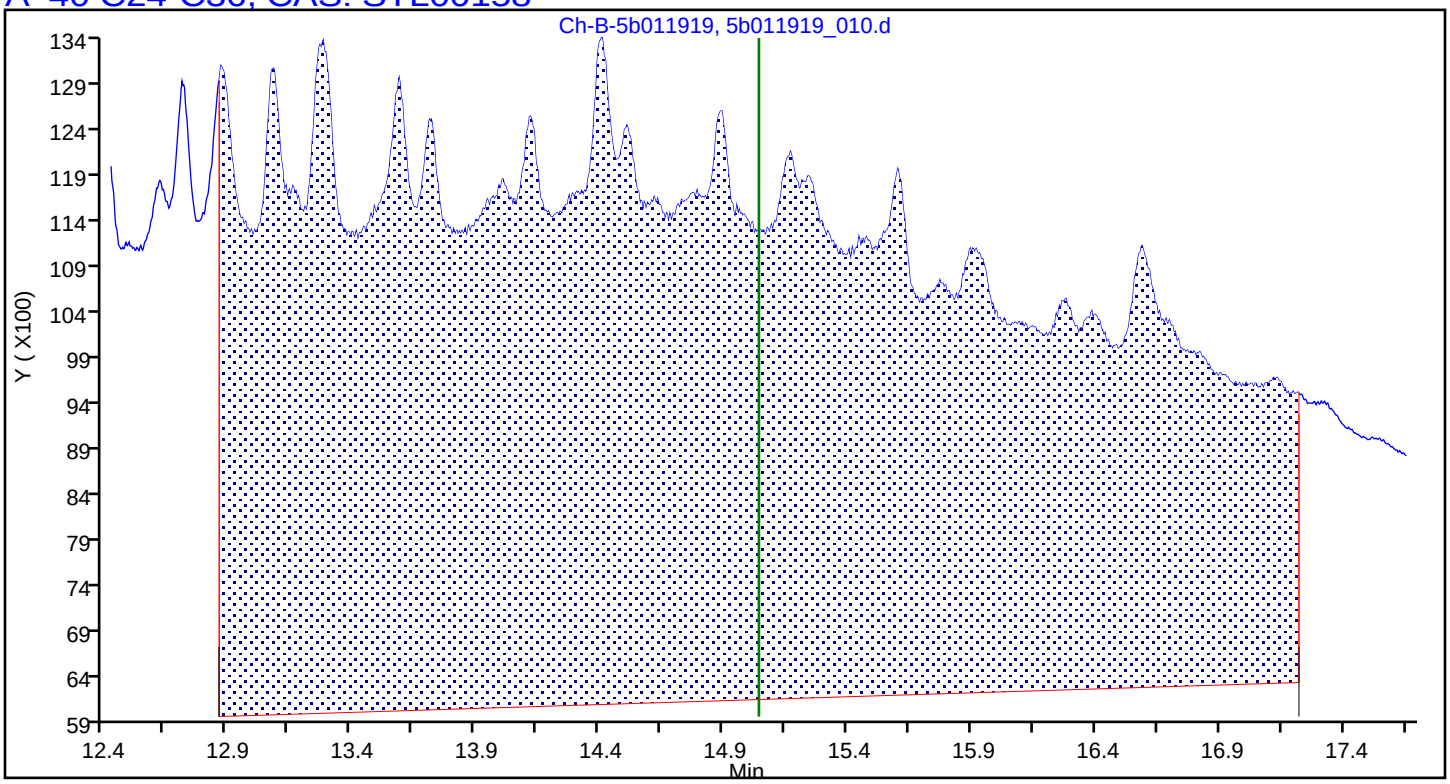


Report Date: 21-Jan-2019 11:41:06 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_010.d				
Injection Date:	19-Jan-2019 17:12:04	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-32-C	Lab Sample ID:	720-90673-32		
Client ID:	DG-AD9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

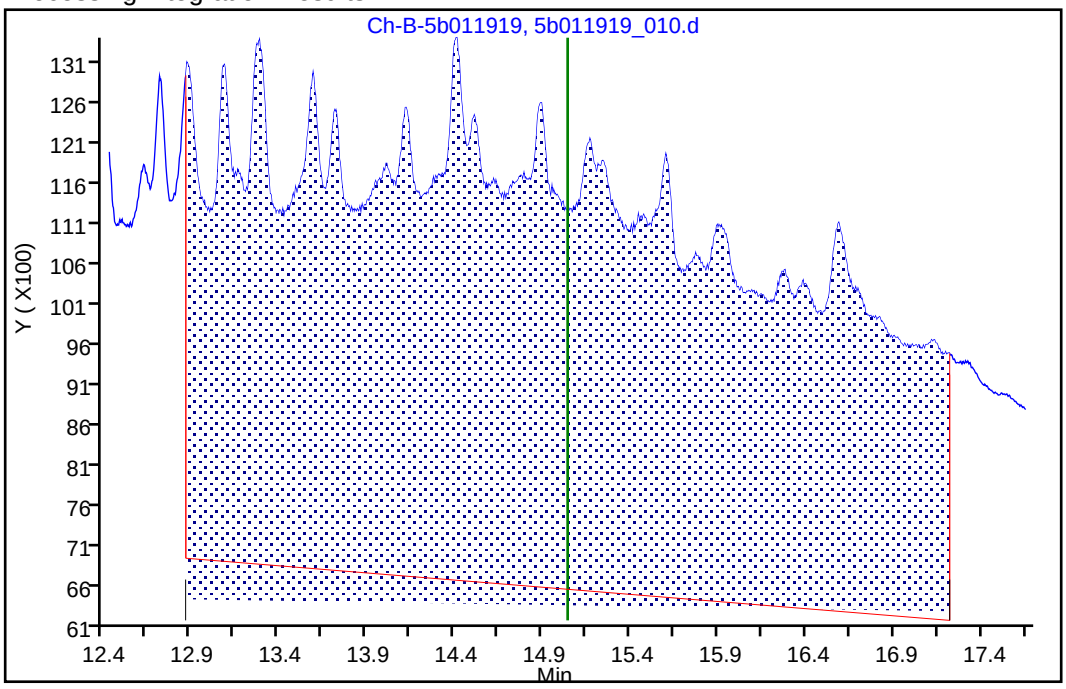
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Injection Date:	19-Jan-2019 17:12:04	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-32-C	Lab Sample ID:	720-90673-32		
Client ID:	DG-AD9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.043, CAS: STL00158

Signal: 1

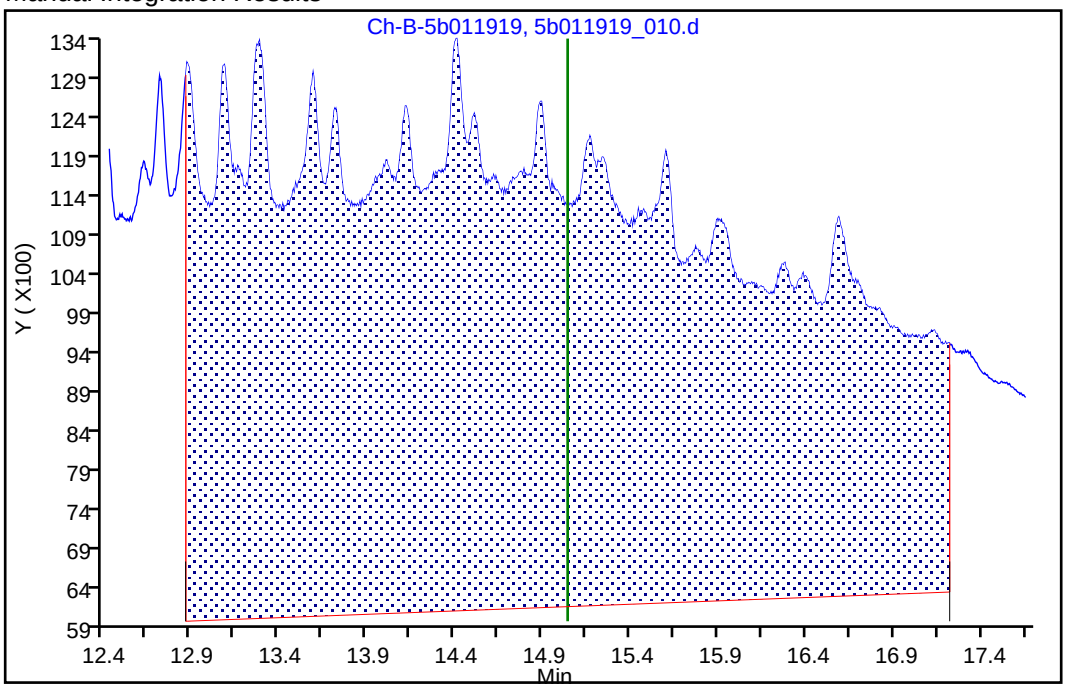
Processing Integration Results

RT: 15.04
Response: 6010692
Amount: 1052.9878



Manual Integration Results

RT: 15.04
Response: 6608250
Amount: 1157.6715



Reviewer: luj, 21-Jan-2019 10:52:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_011.d
Lims ID: 720-90673-E-33-C
Client ID: DG-Z9S-0.5-1
Sample Type: Client
Inject. Date: 19-Jan-2019 17:41:10 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 140 Name: 720-0056178-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m
Limit Group: DRO
Last Update: 21-Jan-2019 10:53:58 Calib Date: 19-Jan-2019 13:00:26
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 10:52:10

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.718	2.672	0.046	1113	NC	
23 n-Decane		3.888			ND	
A 1 C9-C13	4.625	(2.672-6.577)		37566	2.97	
A 21 Stoddard Solvent	4.625	(2.672-6.577)		37566	3.30	
A 57 C10-C12	4.833	(3.888-5.779)		20812	2.12	
24 Dodecane	5.775	5.779	-0.004	914	NC	
A 3 C9 - C17	5.978	(2.672-9.283)		122787	8.69	
A 47 C9 - C18	6.265	(2.672-9.858)		219591	19.6	
A 60 C10-C16	6.269	(3.888-8.651)		80345	6.44	
A 15 Kerosene	6.542	(2.672-10.411)		343660	30.5	
A 25 C9-C19	6.542	(2.672-10.411)		343660	24.3	
26 C13	6.552	6.577	-0.025	2321	NC	
$ 27 n-Decanoic Acid (Surr)		7.187			ND	U
A 59 C12-C16	7.215	(5.779-8.651)		60447	6.16	
A 62 C10-C20	7.416	(3.888-10.944)		855812	87.2	
A 28 C9-C24	7.767	(2.672-12.862)		2406720	245.1	
A 29 C9-C25	7.984	(2.672-13.296)		2746406	279.7	
A 54 C10-C23	8.149	(3.888-12.411)		1937303	197.3	
A 4 C10-C24	8.375	(3.888-12.862)		2395193	244.0	
A 16 C10-C25	8.592	(3.888-13.296)		2734879	278.6	
45 Hexadecane	8.653	8.651	0.002	2825	NC	
A 14 C10-C26	8.801	(3.888-13.715)		3055705	311.2	
A 67 C12-C22	8.861	(5.779-11.942)		1571930	160.1	
A 5 Diesel	9.198	(3.888-14.508)		3778015	384.8	
A 32 C10-C28	9.198	(3.888-14.508)		3778015	384.8	
A 12 Unknown Hydrocarbons	9.198	(3.888-14.508)		3778015	NC	
A 30 C13-C22	9.260	(6.577-11.942)		1568110	159.7	
44 Heptadecane	9.298	9.283	0.015	19875	NC	
A 31 C12-C24	9.321	(5.779-12.862)		2375295	241.9	
49 n-Octadecane	9.811	9.858	-0.047	34140	NC	
A 52 Mineral oil	9.948	(2.672-17.223)		7062164	650.1	
A 9 Crude Oil Range Organics (	9.948	(2.672-17.223)		7062164	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.948	(2.672-17.223)		7214551	NC	
33 C19	10.428	10.411	0.017	65278	NC	
A 64 C13-C28	10.543	(6.577-14.508)		3754297	382.4	
A 17 C10-C36	10.613	(4.000-17.223)		7199668	733.3	
A 13 C9-C40	10.712	(2.672-18.752)		8365631	1052.1	
A 68 Crude Oil Range Organics (	10.712	(2.672-18.752)		8365631	NC	
A 58 C16-C24	10.756	(8.651-12.862)		2314848	235.8	
61 icosane	10.984	10.944	0.040	85850	NC	
A 6 C10-C40	11.320	(3.888-18.752)		8350202	1050.3	
$ 34 p-Terphenyl	11.910	11.913	-0.003	121476	9.64	
35 n-Docosane		11.942			ND	
A 18 C12-C40	12.266	(5.779-18.752)		8319686	1046.8	
36 Tricosane		12.411			ND	
A 66 C13-C40	12.665	(6.577-18.752)		8070746	1017.9	
37 n-Tetracosane	12.858	12.862	-0.004	111862	NC	
A 2 C16-C36 ORO	12.937	(8.651-17.223)		4936039	691.9	
38 C25	13.296	13.296	0.000	113854	NC	
A 19 C16-C40	13.702	(8.651-18.752)		8200132	1033.3	
46 n-Hexacosane	13.710	13.715	-0.005	71080	NC	
A 20 C19-C36	13.817	(10.411-17.223)		5182850	664.7	
A 55 C23-C32	14.179	(12.411-15.946)		3062121	745.5	
39 n-Octacosane	14.412	14.508	-0.096	221306	NC	
65 C29	14.886	14.886	0.000	156267	NC	
A 40 C24-C36	15.043	(12.862-17.223)		4068131	712.7	
A 7 Motor Oil	15.043	(12.862-17.223)		4068131	712.7	
A 50 C25-C36	15.260	(13.296-17.223)		3745917	696.1	
A 10 C22-C40	15.347	(11.942-18.752)		5773730	728.8	
A 41 C23-C40	15.582	(12.411-18.752)		5575841	721.2	
A 8 C24-C40	15.807	(12.862-18.752)		5242390	702.8	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.630	(14.508-18.752)		3884497	772.0	
A 63 C29-C40	16.819	(14.886-18.752)		3523583	786.5	
42 n-Hexatriacontane		17.223			ND	
43 C40		18.752			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

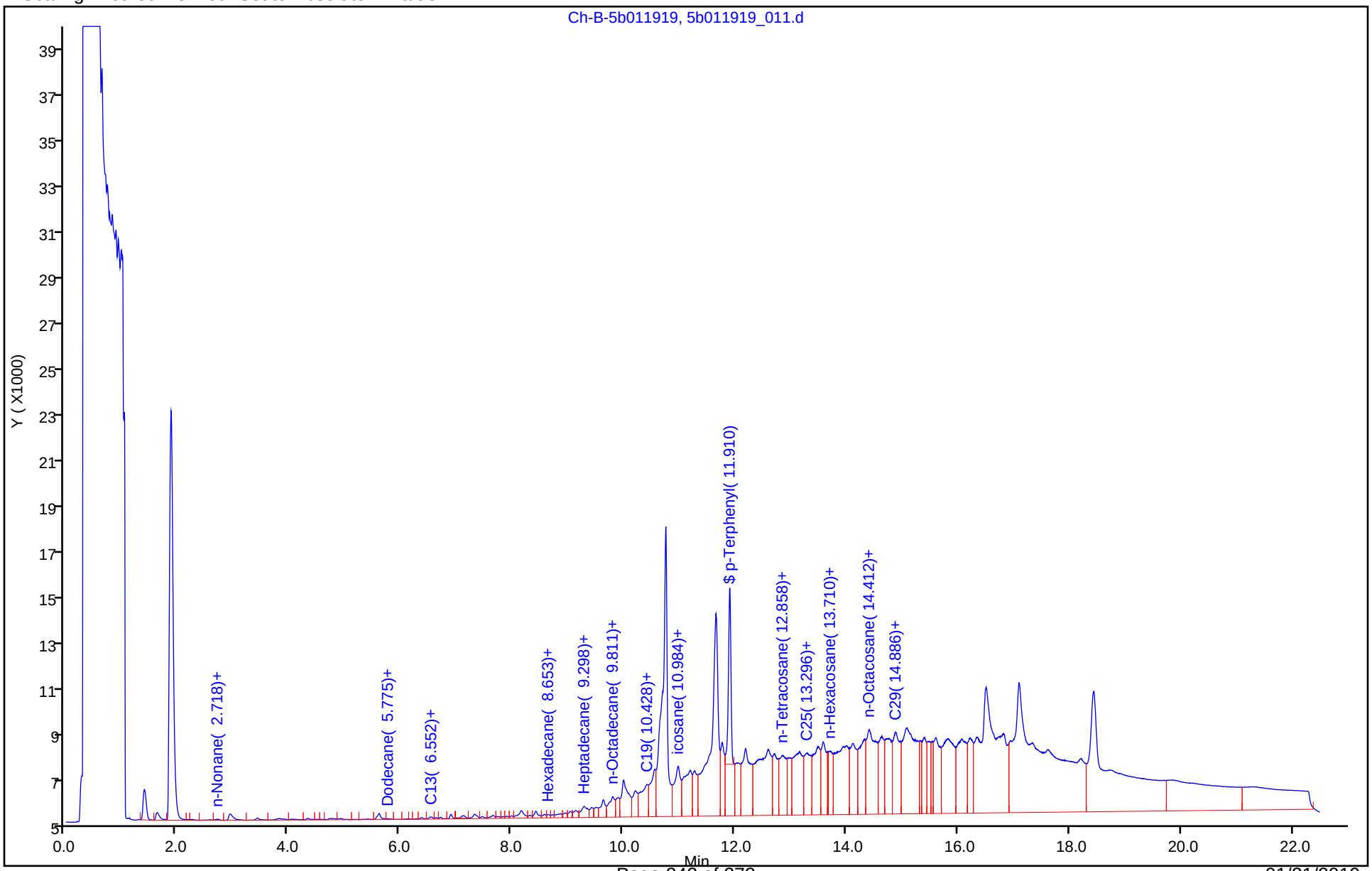
Report Date: 21-Jan-2019 11:41:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_011.d

Injection Date:	19-Jan-2019 17:41:10	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-33-C	Lab Sample ID:	720-90673-33	Worklist Smp#:	11
Client ID:	DG-Z9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_011.d				
Lims ID:	720-90673-E-33-C				
Client ID:	DG-Z9S-0.5-1				
Sample Type:	Client				
Inject. Date:	19-Jan-2019 17:41:10	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 140 Name: 720-0056178-011				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 10:53:58	Calib Date:	19-Jan-2019 13:00:26		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 10:52:10

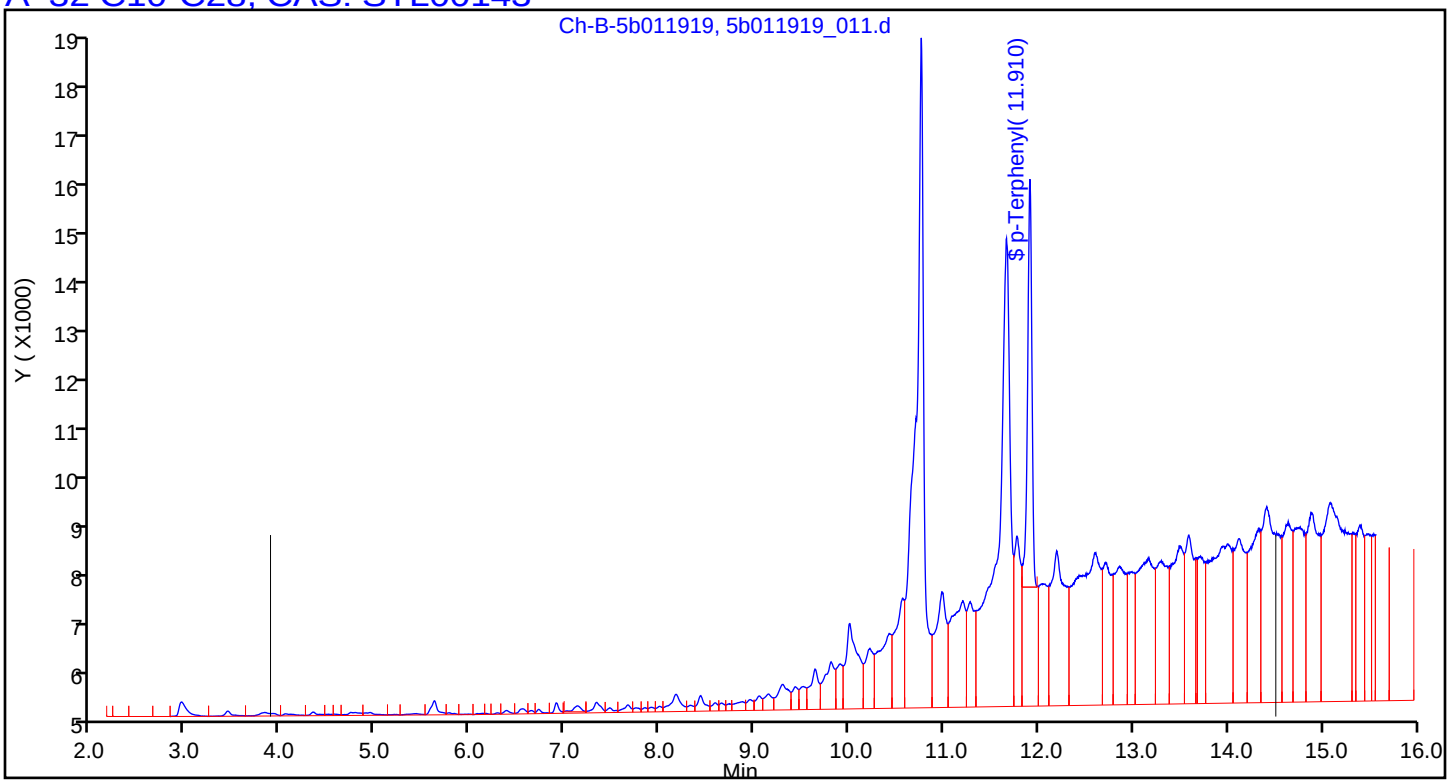
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	9.64	77.11

Report Date: 21-Jan-2019 11:41:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_011.d				
Injection Date:	19-Jan-2019 17:41:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-33-C	Lab Sample ID:	720-90673-33		
Client ID:	DG-Z9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

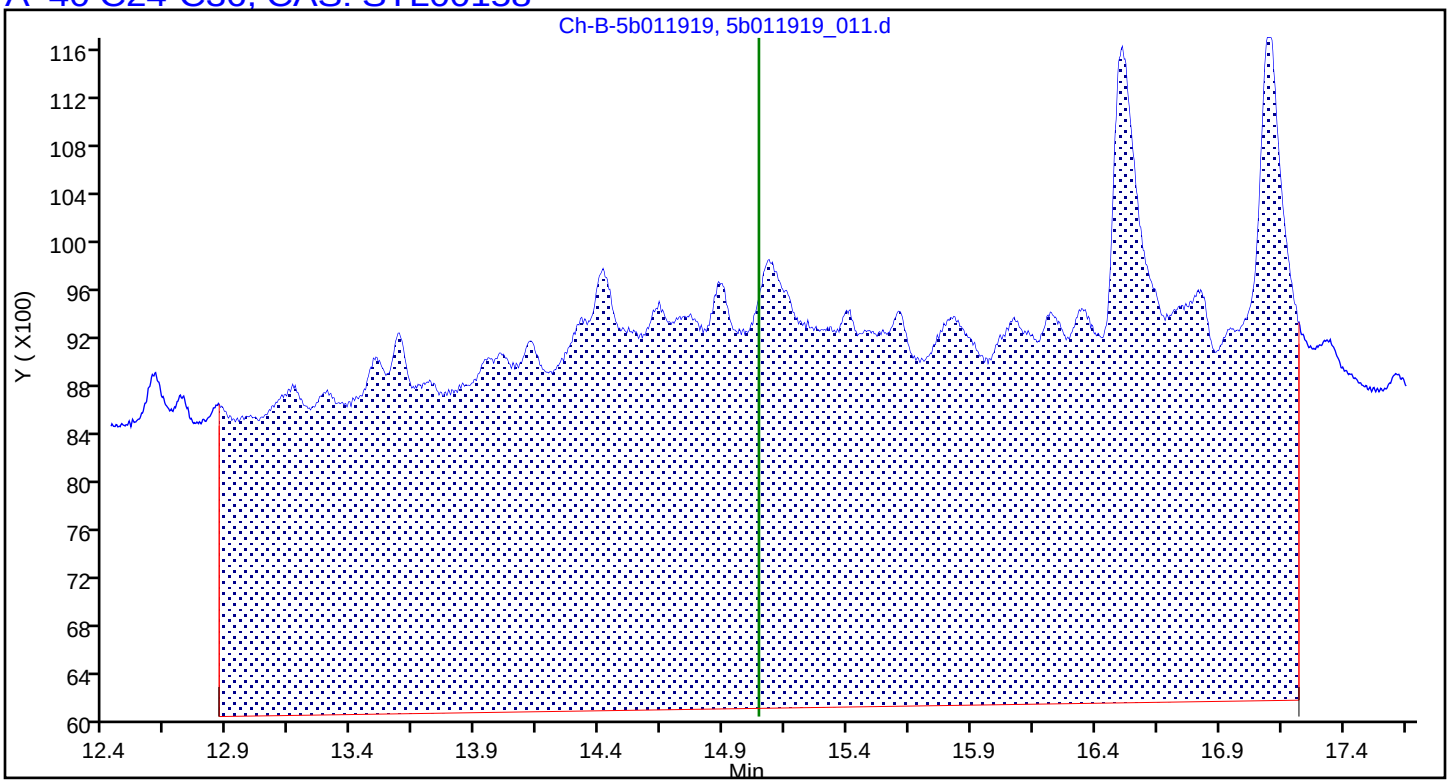


Report Date: 21-Jan-2019 11:41:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_011.d				
Injection Date:	19-Jan-2019 17:41:10	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-33-C	Lab Sample ID:	720-90673-33		
Client ID:	DG-Z9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000018.D
Lims ID: 720-90673-E-34-C
Client ID: DG-Z9S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 18:59:26 ALS Bottle#: 68 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056161-018
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Jan-2019 11:51:35 Calib Date: 18-Jan-2019 09:24:14
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 11:51:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		1.350			ND	
23 n-Decane	2.215	2.203	0.012	594467	NC	M
A 1 C9-C13	2.806	(1.350-4.263)		14971110	NC	M
A 21 Stoddard Solvent	2.806	(1.350-4.263)		14971110	6.29	M
A 57 C10-C12	2.927	(2.203-3.651)		8087166	4.09	M
24 Dodecane	3.661	3.651	0.010	874250	NC	M
A 3 C9 - C17	3.832	(1.350-6.314)		52696529	18.4	M
A 60 C10-C16	4.023	(2.203-5.844)		34164477	13.3	M
A 47 C9 - C18	4.054	(1.350-6.759)		60160049	26.5	M
26 C13	4.270	4.263	0.007	1272092	NC	M
A 15 Kerosene	4.266	(1.350-7.183)		78390768	34.5	M
A 25 C9-C19	4.266	(1.350-7.183)		78390768	27.1	M
$ 27 n-Decanoic Acid (Surr)		4.615			ND	U
A 59 C12-C16	4.747	(3.651-5.844)		26077311	13.2	M
A 61 C10-C20	4.896	(2.203-7.589)		131657640	66.6	M
A 28 C9-C24	5.203	(1.350-9.055)		296858609	150.1	M
A 29 C9-C25	5.369	(1.350-9.388)		345982701	175.0	M
A 54 C10-C23	5.457	(2.203-8.711)		243987452	123.4	M
A 4 C10-C24	5.629	(2.203-9.055)		294132471	148.7	M
A 16 C10-C25	5.795	(2.203-9.388)		343256563	173.6	M
45 Hexadecane	5.845	5.844	0.001	3126185	NC	M
A 14 C10-C26	5.956	(2.203-9.708)		384597594	194.5	M
A 67 C12-C22	6.002	(3.651-8.352)		193001315	97.6	M
A 5 Diesel	6.260	(2.203-10.316)		465953469	235.6	M
A 12 Unknown Hydrocarbons	6.260	(2.203-10.316)		465953469	NC	M
A 32 C10-C28	6.260	(2.203-10.316)		465953469	235.6	M
A 30 C13-C22	6.307	(4.263-8.352)		188843509	95.5	M
44 Heptadecane	6.312	6.314	-0.002	6276076	NC	M
A 31 C12-C24	6.353	(3.651-9.055)		286045305	144.7	M
49 n-Octadecane	6.807	6.759	0.048	9427266	NC	M
A 9 Crude Oil Range Organics (	6.874	(1.350-12.399)		893740474	NC	M
A 11 Bunker Range Organics (C9-	6.874	(1.350-12.399)		893740474	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.874	(1.350-12.399)		893740474	388.3	M
33 C19		7.183			ND	
A 64 C13-C28	7.290	(4.263-10.316)		453708497	229.4	M
A 17 C10-C36	7.301	(2.203-12.399)		891014336	450.6	M
A 68 Crude Oil Range Organics (	7.362	(1.350-13.374)		1016916777	NC	M
A 13 C9-C40	7.362	(1.350-13.374)		1016916777	573.7	M
A 58 C16-C24	7.450	(5.844-9.055)		259967994	131.5	M
62 icosane	7.552	7.589	-0.037	12786780	NC	M
A 6 C10-C40	7.789	(2.203-13.374)		1014190639	572.8	M
$ 34 p-Terphenyl	8.047	8.057	-0.010	47489298	20.1	M
35 n-Docosane	8.355	8.352	0.003	18550488	NC	M
A 18 C12-C40	8.513	(3.651-13.374)		1006103473	570.3	M
36 Tricosane	8.715	8.711	0.004	26158838	NC	M
A 66 C13-C40	8.819	(4.263-13.374)		1001945667	568.5	M
37 n-Tetracosane	9.060	9.055	0.005	20201968	NC	M
A 2 C16-C36 ORO	9.121	(5.844-12.399)		856849859	632.8	M
38 C25	9.392	9.388	0.004	21949624	NC	M
A 19 C16-C40	9.609	(5.844-13.374)		980026162	557.2	M
46 n-Hexacosane	9.712	9.708	0.004	23884485	NC	M
A 20 C19-C36	9.791	(7.183-12.399)		663414024	412.1	
A 55 C23-C32	10.065	(8.711-11.420)		459666962	518.2	M
39 n-Octacosane	10.322	10.316	0.006	58463148	NC	M
65 C29	10.606	10.606	0.000	38292590	NC	M
A 40 C24-C36	10.727	(9.055-12.399)		517793667	447.6	
A 7 Motor Oil	10.727	(9.055-12.399)		517793667	447.6	
A 10 C22-C40	10.863	(8.352-13.374)		665276610	410.9	
A 50 C25-C36	10.893	(9.388-12.399)		458115188	423.2	
A 41 C23-C40	11.042	(8.711-13.374)		632934202	398.6	
A 8 C24-C40	11.215	(9.055-13.374)		599598212	385.8	
56 Dotriacontane	11.413	11.420	-0.007	18248364	NC	M
A 51 C28-C40	11.845	(10.316-13.374)		437437582	351.7	
A 63 C29-C40	11.990	(10.606-13.374)		392933274	344.1	
42 n-Hexatriacontane	12.352	12.399	-0.047	23706325	NC	M
43 C40		13.374			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

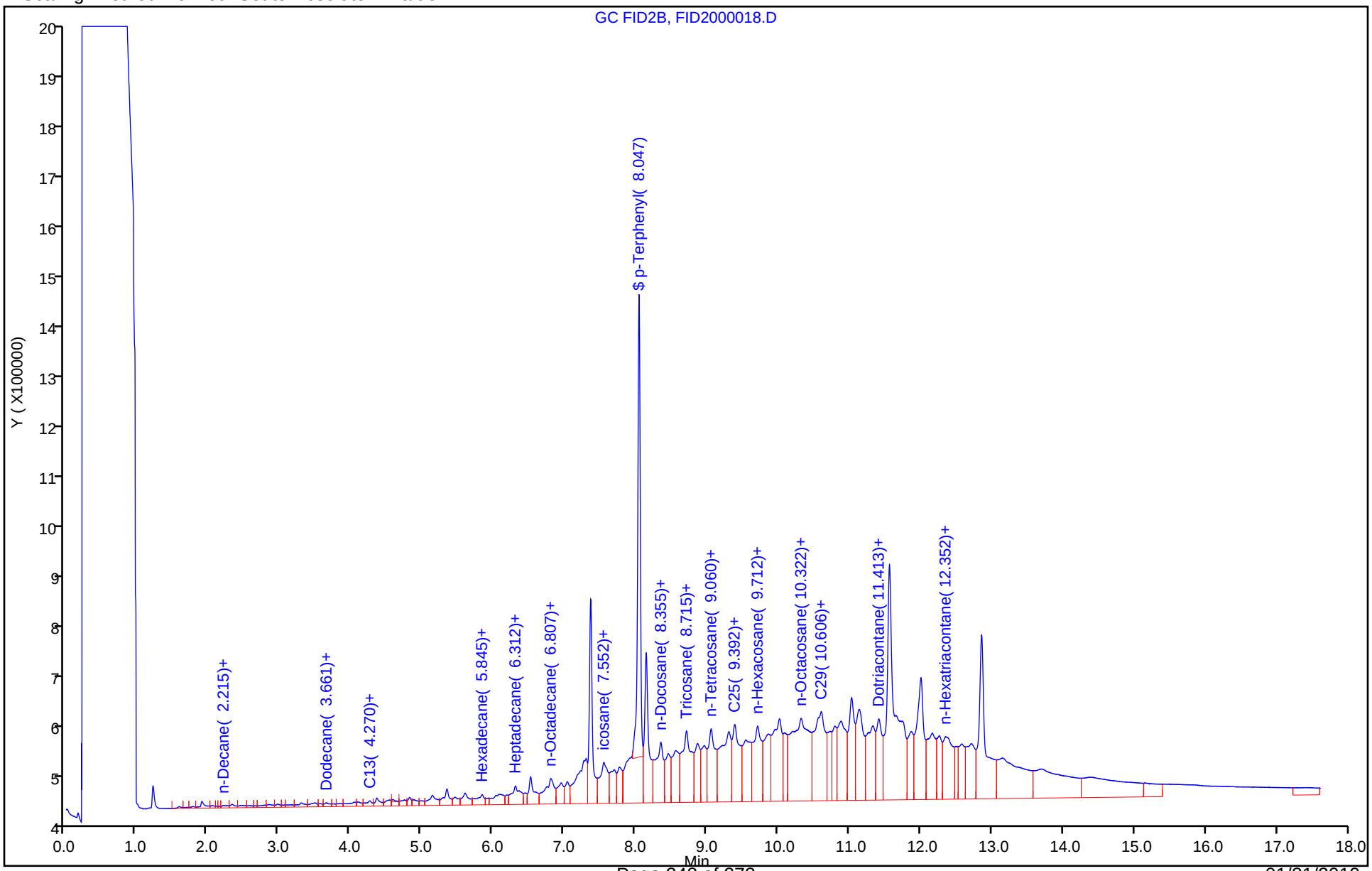
Report Date: 21-Jan-2019 11:51:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000018.D

Injection Date:	18-Jan-2019 18:59:26	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90673-E-34-C	Lab Sample ID:	720-90673-34	Worklist Smp#:	18
Client ID:	DG-Z9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	68
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000018.D
Lims ID: 720-90673-E-34-C
Client ID: DG-Z9S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 18:59:26 ALS Bottle#: 68 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056161-018
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Jan-2019 11:51:35 Calib Date: 18-Jan-2019 09:24:14
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 11:51:35

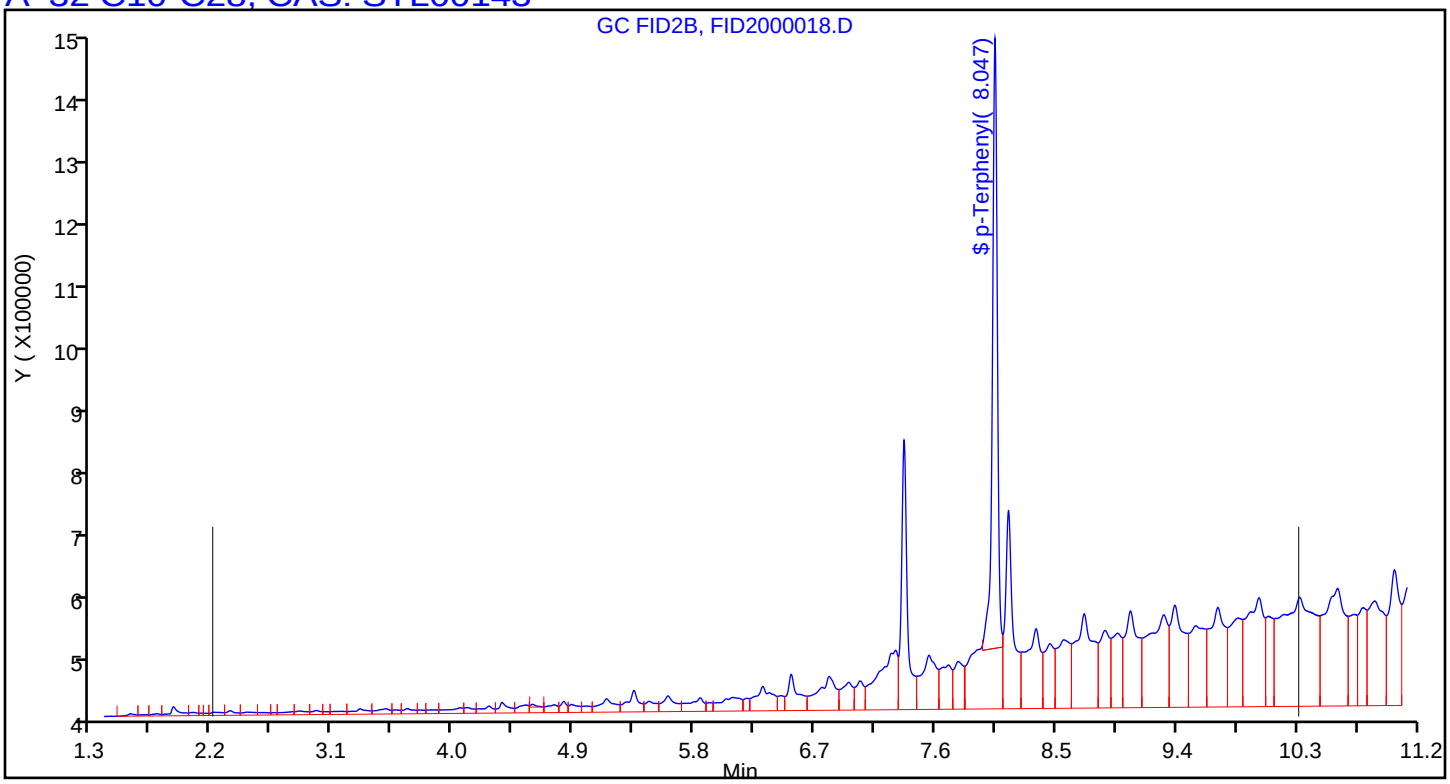
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.1	80.56

Report Date: 21-Jan-2019 11:51:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000018.D				
Injection Date:	18-Jan-2019 18:59:26	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-34-C	Lab Sample ID:	720-90673-34		
Client ID:	DG-Z9S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	68	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

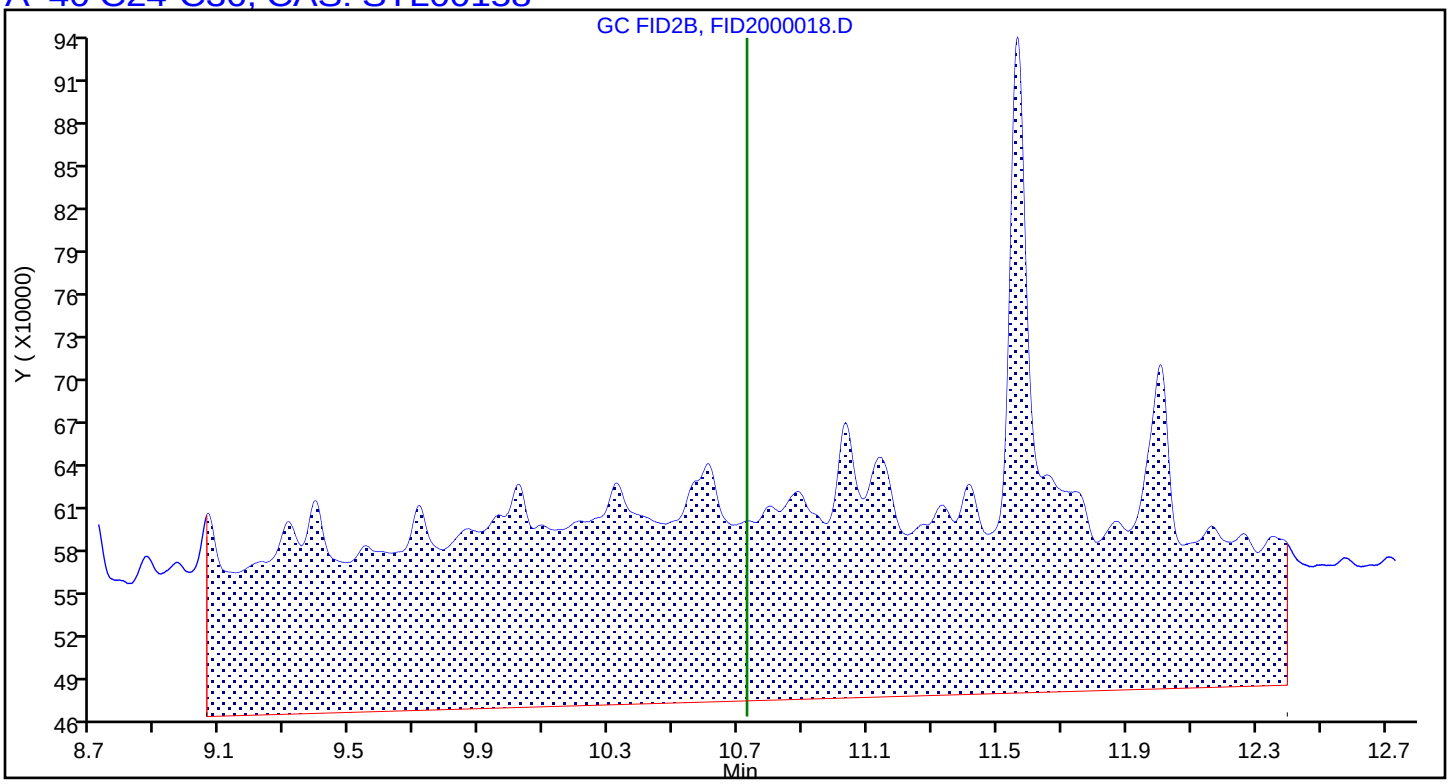


Report Date: 21-Jan-2019 11:51:42 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000018.D				
Injection Date:	18-Jan-2019 18:59:26	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-34-C	Lab Sample ID:	720-90673-34		
Client ID:	DG-Z9S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	68	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

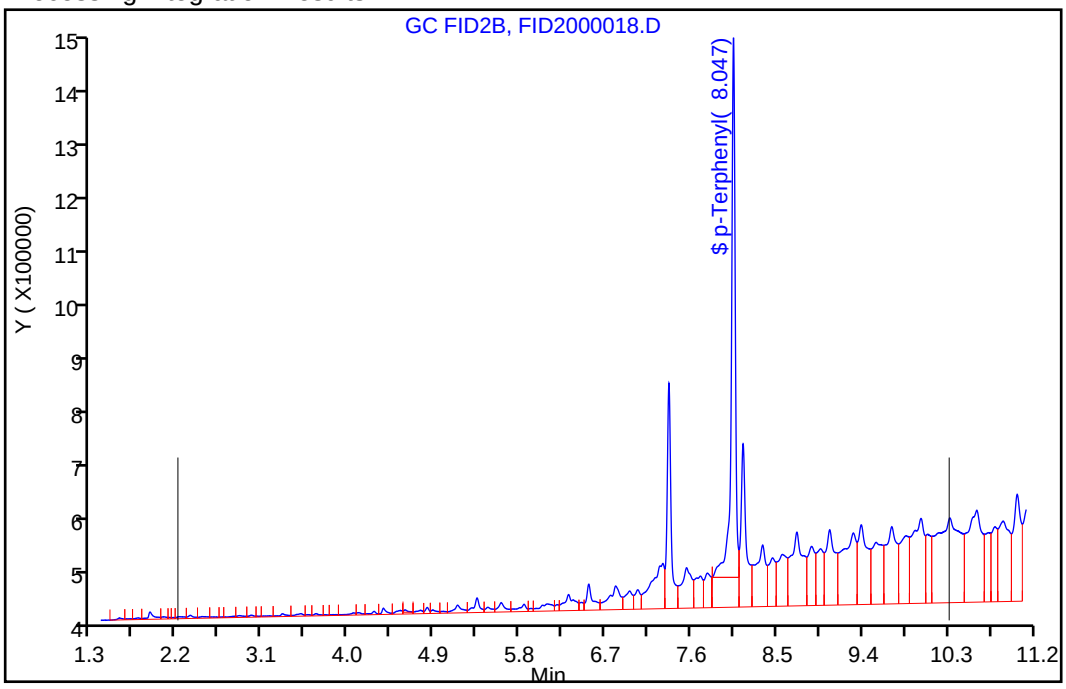
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Injection Date:	18-Jan-2019 18:59:26	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-34-C	Lab Sample ID:	720-90673-34		
Client ID:	DG-Z9S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	68	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.260, CAS: STL00143

Signal: 1

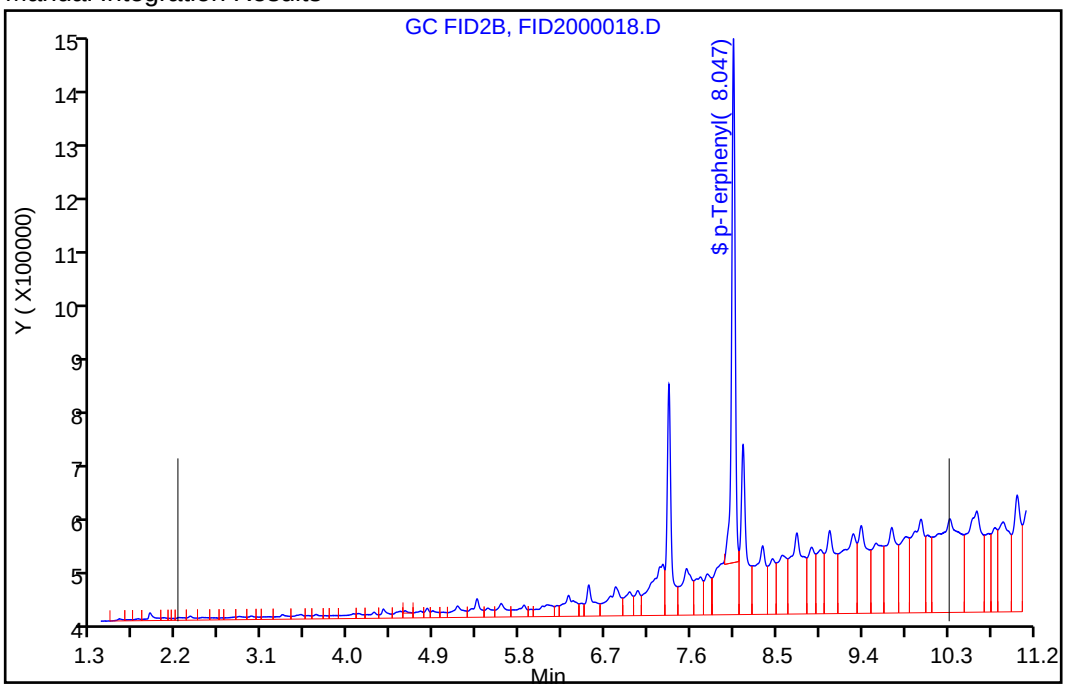
Processing Integration Results

RT: 6.26
Response: 377684605
Amount: 190.9929



Manual Integration Results

RT: 6.26
Response: 465953469
Amount: 235.6300



Reviewer: luj, 21-Jan-2019 11:51:02

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

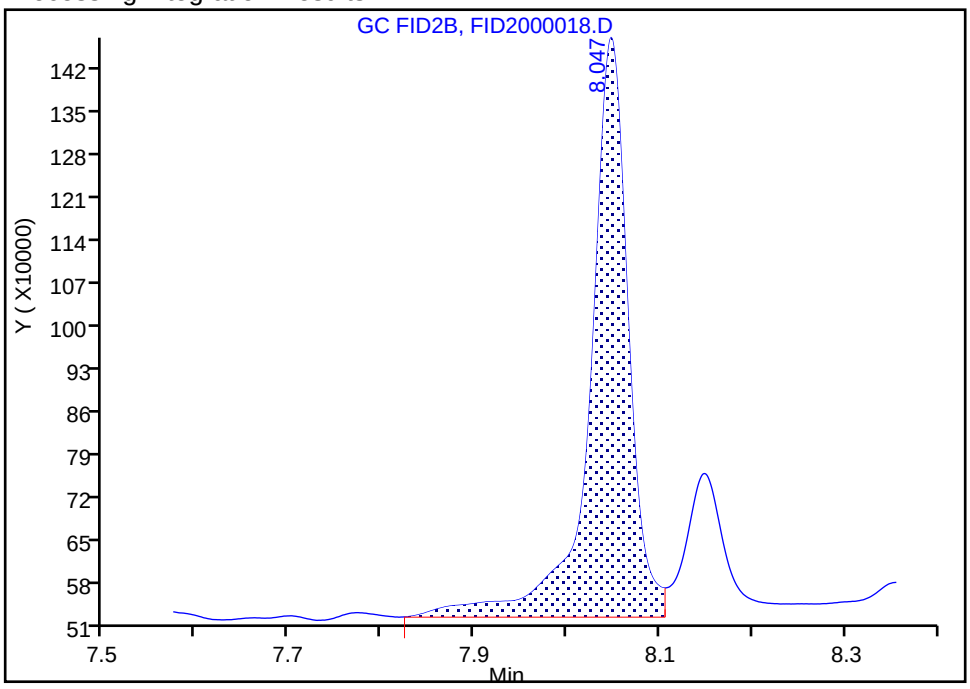
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190118-56161.b\FID2000018.D				
Injection Date:	18-Jan-2019 18:59:26	Instrument ID:	CHDRO6		
Lims ID:	720-90673-E-34-C	Lab Sample ID:	720-90673-34		
Client ID:	DG-Z9S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	68	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

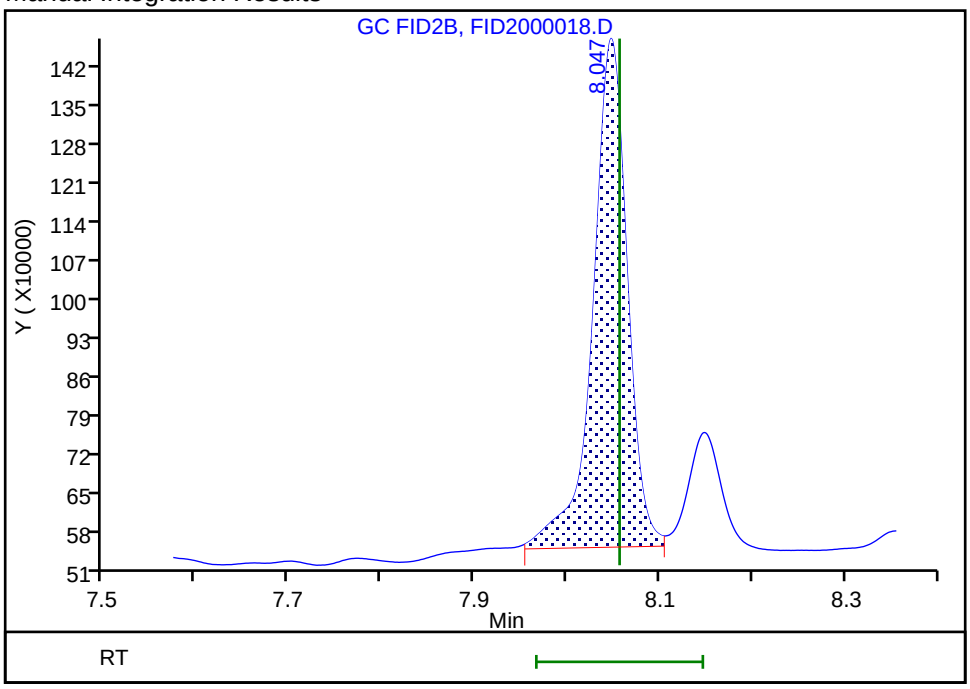
Processing Integration Results

RT: 8.05
Area: 55189152
Amount: 23.404593
Amount Units: mg/L



Manual Integration Results

RT: 8.05
Area: 47489298
Amount: 20.139242
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 11:51:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_007.d
Lims ID: 720-90673-E-35-C
Client ID: DUP-63
Sample Type: Client
Inject. Date: 21-Jan-2019 12:19:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056187-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:55:41 Calib Date: 21-Jan-2019 09:29:11
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 13:02:52

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.480	2.544	-0.064	5511	NC	M
	23 n-Decane		3.793			ND	
A	1 C9-C13	4.528	(2.544-6.512)		98388	NC	M
A	21 Stoddard Solvent	4.528	(2.544-6.512)		98388	NC	M
A	57 C10-C12	4.751	(3.793-5.708)		47096	4.81	M
	24 Dodecane	5.623	5.708	-0.085	18732	NC	M
A	3 C9 - C17	5.892	(2.544-9.239)		437582	36.1	M
A	47 C9 - C18	6.187	(2.544-9.830)		536179	49.8	M
A	60 C10-C16	6.198	(3.793-8.602)		315523	28.6	M
A	15 Kerosene	6.458	(2.544-10.372)		744345	69.0	M
A	25 C9-C19	6.458	(2.544-10.372)		744345	61.0	M
	26 C13	6.480	6.512	-0.032	26564	NC	M
A	59 C12-C16	7.155	(5.708-8.602)		287159	29.3	M
$	27 n-Decanoic Acid (Surr)		7.156			ND	U
A	62 C10-C20	7.351	(3.793-10.909)		1407250	143.6	M
A	28 C9-C24	7.693	(2.544-12.841)		3193353	325.8	M
A	29 C9-C25	7.911	(2.544-13.278)		3446298	351.6	M
A	54 C10-C23	8.090	(3.793-12.387)		2634410	268.8	M
A	4 C10-C24	8.317	(3.793-12.841)		3171707	323.6	M
A	16 C10-C25	8.536	(3.793-13.278)		3424652	349.4	M
	45 Hexadecane	8.547	8.602	-0.055	44803	NC	M
A	14 C10-C26	8.747	(3.793-13.700)		3766159	384.3	M
A	67 C12-C22	8.811	(5.708-11.914)		2454877	250.5	M
A	12 Unknown Hydrocarbons	9.146	(3.793-14.499)		4620170	NC	M
A	32 C10-C28	9.146	(3.793-14.499)		4620170	471.4	M
A	5 Diesel	9.146	(3.793-14.499)		4620170	471.4	M
A	30 C13-C22	9.213	(6.512-11.914)		2433063	248.2	M
	44 Heptadecane	9.253	9.239	0.014	57779	NC	M
A	31 C12-C24	9.274	(5.708-12.841)		3143343	320.7	M
	49 n-Octadecane	9.857	9.830	0.027	116457	NC	M
A	9 Crude Oil Range Organics (	9.888	(2.544-17.232)		9764134	NC	
A	52 Mineral oil	9.888	(2.544-17.232)		9764134	871.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.888	(2.544-17.232)		9702091	NC	M
33 C19		10.372			ND	
A 64 C13-C28	10.506	(6.512-14.499)		4569992	466.3	M
A 17 C10-C36	10.513	(3.793-17.232)		9680445	987.7	M
A 13 C9-C40	10.665	(2.544-18.786)		11415691	1411.5	
A 68 Crude Oil Range Organics (	10.665	(2.544-18.786)		11415691	NC	
A 58 C16-C24	10.721	(8.602-12.841)		2900987	296.0	M
61 icosane	10.977	10.909	0.068	100311	NC	M
A 6 C10-C40	11.290	(3.793-18.786)		11390657	1408.6	
$ 34 p-Terphenyl	11.900	11.908	-0.008	237595	19.9	
35 n-Docosane		11.914			ND	
A 18 C12-C40	12.247	(5.708-18.786)		11332061	1401.4	
36 Tricosane	12.393	12.387	0.006	121570	NC	M
A 66 C13-C40	12.649	(6.512-18.786)		11292305	1396.5	
37 n-Tetracosane	12.840	12.841	-0.001	202137	NC	M
A 2 C16-C36 ORO	12.917	(8.602-17.232)		9352179	1232.3	
38 C25	13.277	13.278	-0.001	252945	NC	M
A 19 C16-C40	13.694	(8.602-18.786)		11003736	1360.7	
46 n-Hexacosane	13.603	13.700	-0.097	341507	NC	M
A 20 C19-C36	13.802	(10.372-17.232)		8250306	956.2	
A 55 C23-C32	14.167	(12.387-15.948)		4274336	898.9	
39 n-Octacosane	14.430	14.499	-0.069	444414	NC	M
65 C29	14.883	14.879	0.004	607601	NC	M
A 7 Motor Oil	15.036	(12.841-17.232)		6142466	1008.3	
A 40 C24-C36	15.036	(12.841-17.232)		6142466	1008.3	
A 50 C25-C36	15.255	(13.278-17.232)		5830230	1007.7	
A 10 C22-C40	15.350	(11.914-18.786)		8120653	971.4	
A 41 C23-C40	15.586	(12.387-18.786)		7996383	975.0	
A 8 C24-C40	15.813	(12.841-18.786)		7677523	965.1	
56 Dotriacontane	15.963	15.948	0.015	745260	NC	M
A 51 C28-C40	16.642	(14.499-18.786)		6196732	1074.8	
A 63 C29-C40	16.832	(14.879-18.786)		5715573	1109.6	
42 n-Hexatriacontane		17.232			ND	
43 C40	18.870	18.786	0.084	554642	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

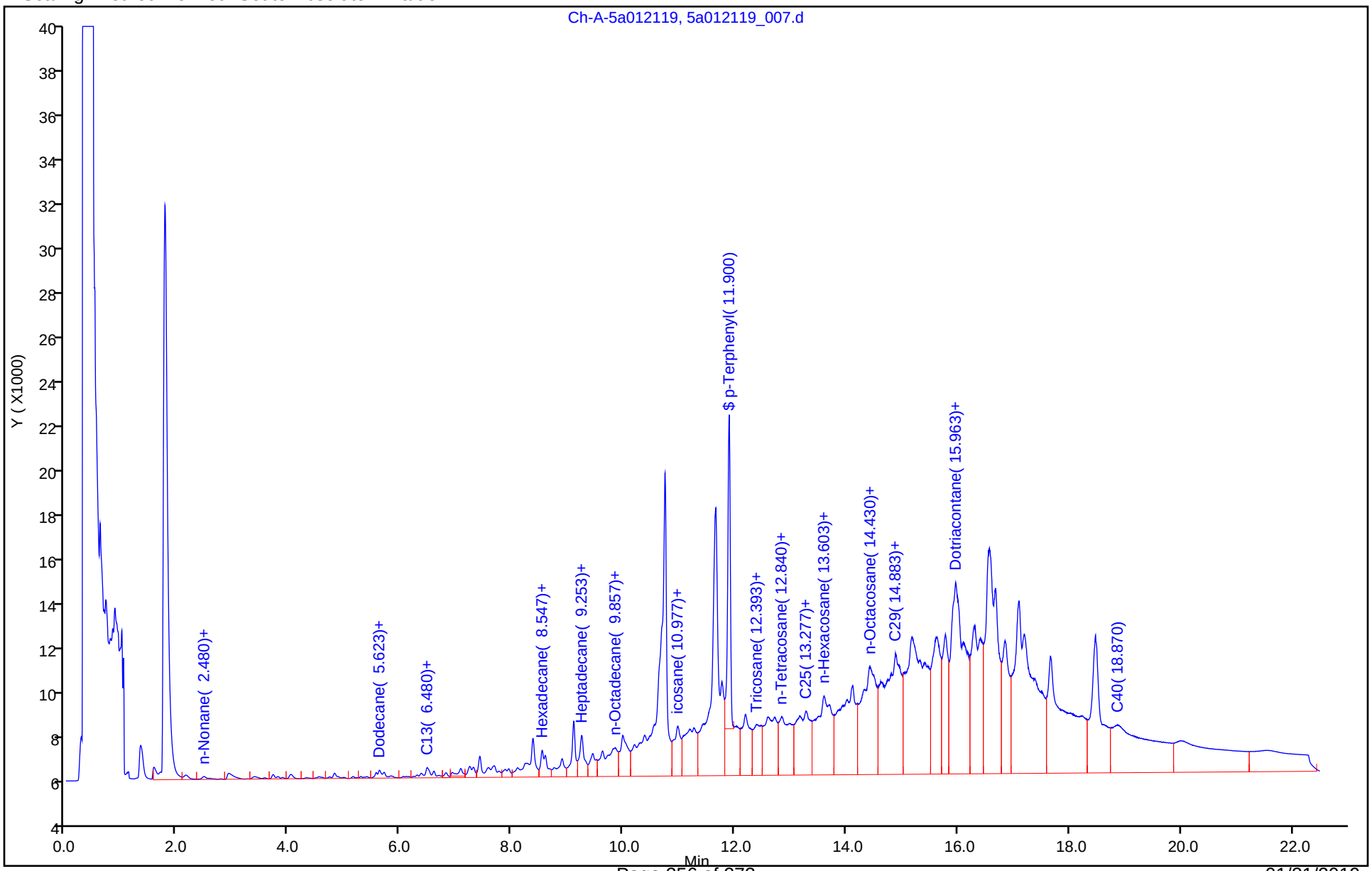
Report Date: 21-Jan-2019 13:02:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_007.d

Injection Date:	21-Jan-2019 12:19:29	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90673-E-35-C	Lab Sample ID:	720-90673-35	Worklist Smp#:	7
Client ID:	DUP-63				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_007.d				
Lims ID:	720-90673-E-35-C				
Client ID:	DUP-63				
Sample Type:	Client				
Inject. Date:	21-Jan-2019 12:19:29	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056187-007				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:55:41	Calib Date:	21-Jan-2019 09:29:11		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 13:02:52

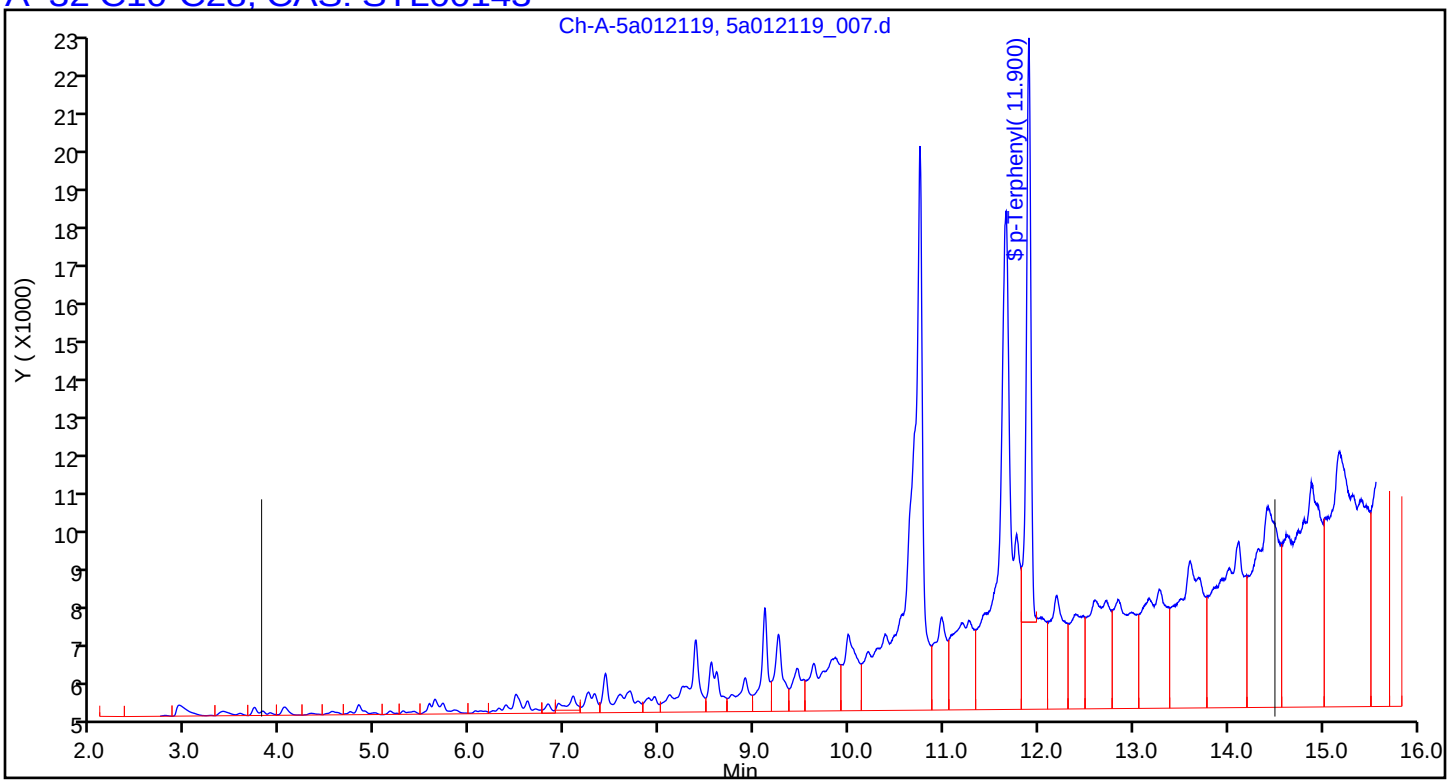
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	19.9	79.70

Report Date: 21-Jan-2019 13:02:54 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_007.d				
Injection Date:	21-Jan-2019 12:19:29	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-35-C	Lab Sample ID:	720-90673-35		
Client ID:	DUP-63				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

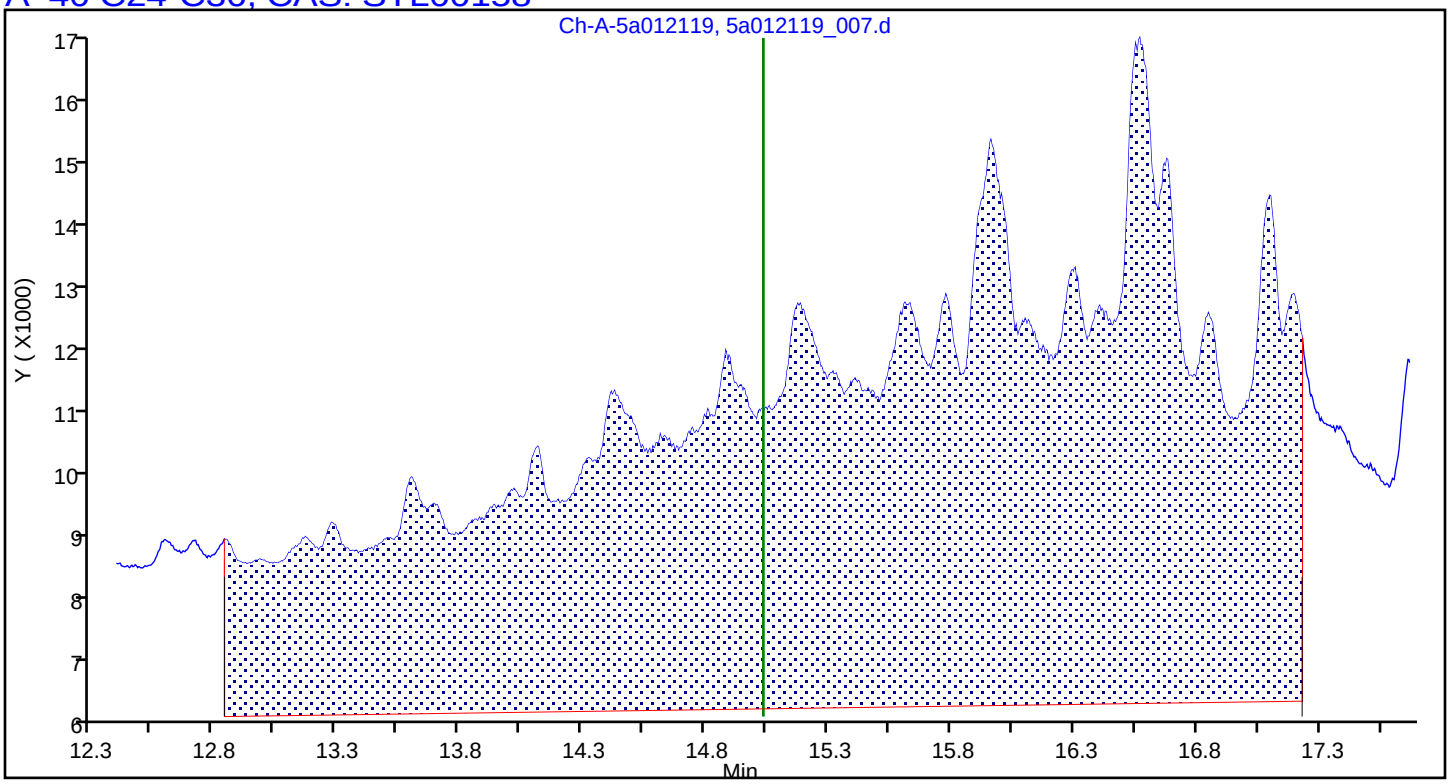


Report Date: 21-Jan-2019 13:02:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_007.d				
Injection Date:	21-Jan-2019 12:19:29	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-35-C	Lab Sample ID:	720-90673-35		
Client ID:	DUP-63				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

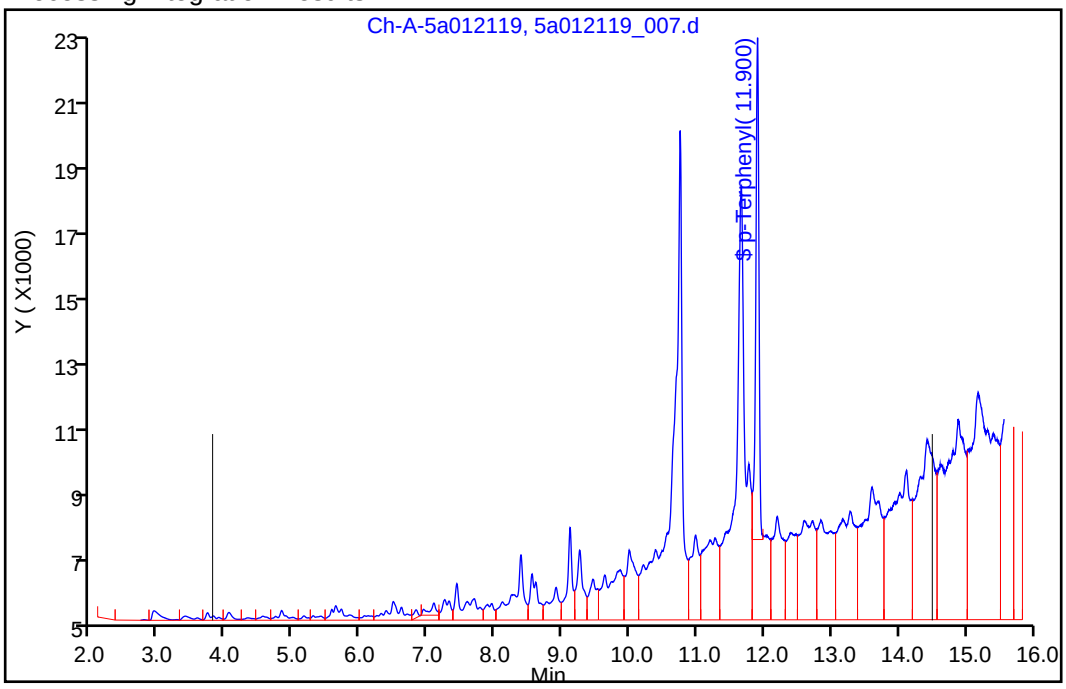
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_007.d				
Injection Date:	21-Jan-2019 12:19:29	Instrument ID:	CHDRO5		
Lims ID:	720-90673-E-35-C	Lab Sample ID:	720-90673-35		
Client ID:	DUP-63				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.146, CAS: STL00143

Signal: 1

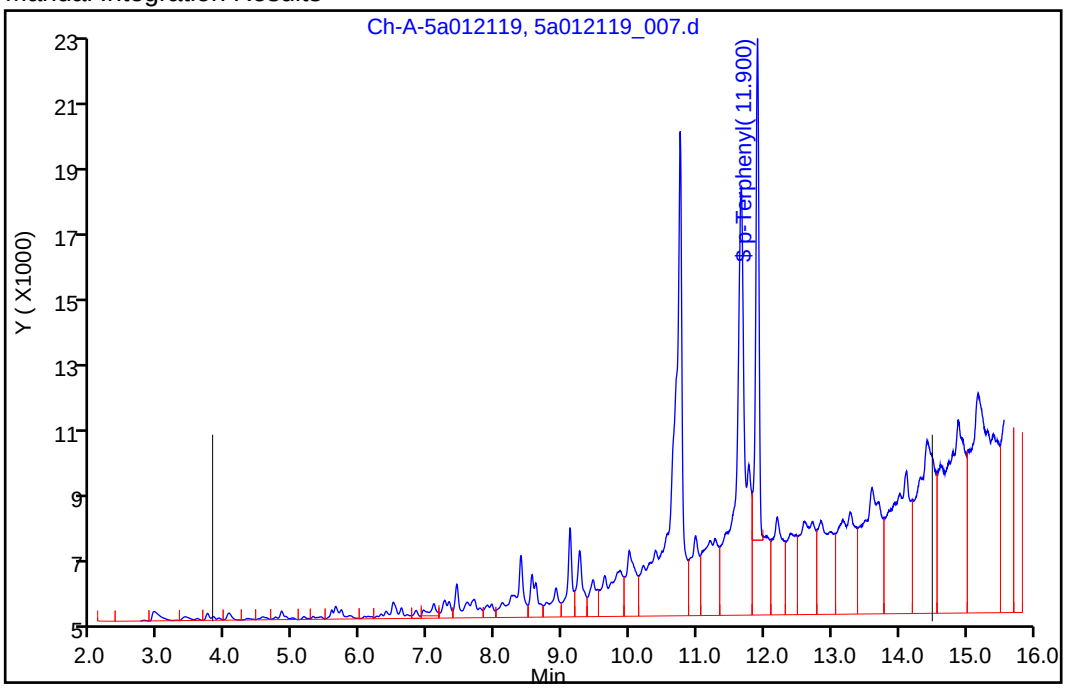
Processing Integration Results

RT: 9.15
Response: 4926461
Amount: 502.6481



Manual Integration Results

RT: 9.15
Response: 4620170
Amount: 471.3972



Reviewer: luj, 21-Jan-2019 12:55:29

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925 600.3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No A7726
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			720-90673 Chain of Custody
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DGY7S-0.5-1	1-9-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2	DGY7S-3.5-4		0732													
3	DGAA7S-0.5-1		0810													
4	DGAA7S-3.5-4		0812													
5	DGAC7S-0.5-1		0845													
6	DGAC7S-3.5-4		0847													
7	DUP#47		—													
8	DGAC7S-7.5-8		0850													
9	DGAE7S-0.5-1		0905													
10	DGAE7S-3.5-4		0907													
11	DGAE7S-8.0-8.5		0910													

Page 261 of 273

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C). Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company	Date/Time 1-9-19 1615	Received by	Company TA PLS	Date/Time 1/9/19 1615
Relinquished by	Company TA PLS 18:30	Date/Time 1/9/19 1830	Received by	Company	Date/Time
Relinquished by	Company	Date/Time 1/9/19	Received in Laboratory by	Company TA-PLS	Date/Time 1/9/19 18:30

1.1/2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

01/17/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600 3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No 18776
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George A Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
12	DG-AI7S 0.5-1	1-9-19	1900	G	S	7	N		X	X	X	X	X	X	X	
13	DG-AI7S 3.5-4		1002													
14	DG-AI7S 8.0-8.5		1005													
15	DG-AK7S 0.5-1		1025													
16	DG-AK7S 3.5-4		1027													
17	DUP#48		—													
18	DG-AM7S 0.5-1		1055													
19	DG-AM7S 3.5-4		1057													
20	DG-AM7S 7.5-8		1100													
21	DG-A07S 0.5-1		1125													
22	DG-A07S 3.5-4		1127													

GRAB

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company GEOSYNTEC	Date/Time 1-9-19 1645	Received by	Company TAPLS	Date/Time 1/9/19 1645
Relinquished by:	Company TAPLS 18:30	Date/Time 1/9/19 1830	Received by	Company	Date/Time
Relinquished by	Company	Date/Time 1/9/19	Received in Laboratory by	Company TA-PL-S	Date/Time 1/9/19 1830

1-1/2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925 600 3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No 187726
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site. Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
23	DG-AS7S-0.5-1	1-9-19	1300	G	S	7	N		X	X	X	X	X	X	X	
24	DG-AS7S-3.5-4		1302													
25	DG-AU7S-0.5-1		1335													
26	DG-AU7S-3.5-4		1337													
27	Dup#50	1-9-19	—													
28	DG-AR9S-0.5-1		1405													
29	DG-AR9S-3.5-4		1407													
30	Dup#65		—													
31	DG-AN9S-0.5-1		1455													
32	DG-AD9S-3.5-4		1457													
33	DG-Z9S-0.5-1		1530													
34	DG-Z9S-3.5-4		1532													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____

Relinquished by	Company GEOSYNTEC	Date/Time 1-9-19 1615	Received by	Company TA-PLS	Date/Time 1/9/19 1615
Relinquished by	Company TA-PLS	Date/Time 1/9/19 1830	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/9/19 1830

1.1 / 2.1 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/11/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No 587736
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hich
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahntas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
35	DUP#63	1-9-19	—	G	S	7	N		X	X	X	X	X	X	X	
36	FB-1-9-19	↓	—	↓	↓	2			X							

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd. _____ Therm ID No. _____		
Relinquished by	Company GEOSYNTEC	Date/Time 1-9-19 1615	Received by	Company TA-PLS	Date/Time 1/9/19 1615
Relinquished by	Company TA-PLS	Date/Time 1/9/19 1830	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/9/19 1830

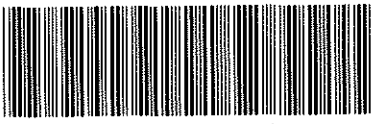
1.1 / 2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/10/2019

720-90673

GEOSYNTEC



720-90673-02 Chain of Custody

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC01

FedEx Express Package(s) - Dropped Off
478645740996

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 09, 2019 4:35:42 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No: KTTA6
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90673 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
1	DGY7S-0.5-1	1-9-19	0930	G	S	1	N		X	X	X	X	X	X	X	
2	DGY7S-3.5-4		0732													
3	DGAA7S-0.5-1		0810													
4	DGAA7S-3.5-4		0812													
5	DGAC7S-0.5-1		0845													
6	DGAC7S-3.5-4		0847													
7	DUP #47		—													
8	DGAC7S-7.5-8		0850													
9	DGAE7S-0.5-1		0905													
10	DGAE7S-3.5-4		0907													
11	DGAE7S-8.0-8.5		0910													

720-90673 Chain of Custody

Encores or Terracores Frozen Date: 1/10/19 Time: 1230 Initials: AC

GAH

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: 2.1	Corr'd: 2.1	Therm ID No.: 89	
Relinquished by:	Company:	Date/Time: 1-9-19 1615	Received by:	Company: TAPLS	Date/Time: 1/9/19 1615	
Relinquished by:	Company: TAPLS 18:30	Date/Time: 1/9/19 1830	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: 1/9/19	Company: TA-PLS	Date/Time: 1/9/19 18:30	

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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01/31/2019

FedEx 478645740096

1.1/2.1°C

Rec by TA IRV 1/10/19 0945

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No. 187726
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George A Hichborn
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# or Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
12	DG-AI7S 0.5-1	1-9-19	1900	G	S	7	N		X	X	X	X	X	X	X	
13	DG-AI7S 3.5-4		1002													
14	DG-AI7S 8.0-8.5		1005													
15	DG-AK7S 0.5-1		1025													
16	DG-AK7S 3.5-4		1027													
17	DUP#48		—													
18	DG-AM7S 0.5-1		1055													
19	DG-AM7S 3.5-4		1057													
20	DG-AM7S 7.5-8		1100													
21	DG-A07S 0.5-1		1125													
22	DG-A07S 3.5-4	↓	1127	↓	↓	↓										

SDG#4

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd:		Therm ID No.:
Relinquished by:	Company: GEOSYNTEC	Date/Time: 1-9-19 1615	Received by:	Company: TAPLS	Date/Time: 1/9/19 1615
Relinquished by:	Company: TAPLS 18:30	Date/Time: 1/9/19 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time: 1/9/19	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/9/19 1830

1-1/2-1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

01/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No. 187120
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George H. Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
23	DG-AS7S-0.5-1	1-9-19	1300	G	S	7	N		X	X	X	X	X	X	X	
24	DG-AS7S-3.5-4		1302													
25	DG-AU7S-0.5-1		1335													
26	DG-AU7S-3.5-4		1337													
27	Dup#50	1-9-19	—													
28	DG-AR9S-0.5-1		1405													
29	DG-AR9S-3.5-4		1407													
30	Dup#65		—													
31	DG-AD9S-0.5-1		1455													
32	DG-AD9S-3.5-4		1457													
33	DG-Z9S-0.5-1		1530													
34	DG-Z9S-3.5-4		1532													

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ Therm ID No.:		
Relinquished by:	Company: GEOSYNTEC	Date/Time: 1-9-19 1615	Received by:	Company: TA-PLS	Date/Time: 1/9/19 1615
Relinquished by:	Company: TA-PLS	Date/Time: 1/9/19 1820	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/9/19 1830

1.1 / 2.1 C

01/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90673

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-9-19	COC No. 687786
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hich
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
35 DUP#63	1-9-19	—	G	S	7	N		X	X	X	X	X	X	X	
36 FB-1-9-19	↓	—	↓	↓	2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by	Company: GEOSYNTEC	Date/Time: 1-9-19 1615	Received by:	Company: TA-PLS	Date/Time: 1/9/19 1615
Relinquished by	Company: TA-PLS	Date/Time: 1/9/19 1830	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/9/19 1830

1.1 / 2.1°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40748.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/21/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X							
DG-Y7S-0.5-1 (720-90673-1)	1/9/19	07:30 Pacific		Solid			X	X	X			1	
DG-Y7S-3.5-4 (720-90673-2)	1/9/19	07:32 Pacific		Solid			X	X	X			1	
DG-AA7S-0.5-1 (720-90673-3)	1/9/19	08:10 Pacific		Solid			X	X	X			1	
DG-AA7S-3.5-4 (720-90673-4)	1/9/19	08:12 Pacific		Solid			X	X	X			1	
DG-AC7S-0.5-1 (720-90673-5)	1/9/19	08:45 Pacific		Solid			X	X	X			1	
DG-AC7S-3.5-4 (720-90673-6)	1/9/19	08:47 Pacific		Solid			X	X	X			1	
DUP-47 (720-90673-7)	1/9/19	Pacific		Solid			X	X	X			1	
DG-AC7S-7.5-8 (720-90673-8)	1/9/19	08:50 Pacific		Solid			X	X	X			1	
DG-AE7S-0.5-1 (720-90673-9)	1/9/19	09:05 Pacific		Solid			X	X	X			1	

Special Instructions/Note: 1 for 1,2-DCA

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/10/19 1433	Company: TAOL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: A. Reyes	Date/Time: 1/11/19 9:30	Company: TA IRK

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks

TRK 4786 4574 1146 Temp 2.3/2.5 IR-94

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-40748.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/21/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	8260B_LL/5035A_F_FW 8260(MOD)-VOCs + SIMS	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-AE7S-3.5-4 (720-90673-10)	1/9/19	09:07 Pacific		Solid		X	X	X			1	
DG-AE7S-8-8.5 (720-90673-11)	1/9/19	09:10 Pacific		Solid		X	X	X			1	
DG-AI7S-0.5-1 (720-90673-12)	1/9/19	10:00 Pacific		Solid		X	X	X			1	
DG-AI7S-3.5-4 (720-90673-13)	1/9/19	10:02 Pacific		Solid		X	X	X			1	
DG-AI7S-8-8.5 (720-90673-14)	1/9/19	10:05 Pacific		Solid		X	X	X			1	
DG-AK7S-0.5-1 (720-90673-15)	1/9/19	10:25 Pacific		Solid		X	X	X			1	
DG-AK7S-3.5-4 (720-90673-16)	1/9/19	10:27 Pacific		Solid		X	X	X			1	
DUP-48 (720-90673-17)	1/9/19	Pacific		Solid		X	X	X			1	
DG-AM7S-0.5-1 (720-90673-18)	1/9/19	10:55 Pacific		Solid		X	X	X			1	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/10/19 1433	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: A. Ramsey	Date/Time: 1/11/19 9:30	Company TA IRV

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

TRK 4786 4574 1146

Temp 2.3/2.5 IR-94

Ver: 09/20/2016

01/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40748.3
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/21/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_SW 8260 (MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_SW 8260 C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260 (MOD) VOCs	8260B/CA_LUFTMS/5030B 8260 C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AM7S-3.5-4 (720-90673-19)	1/9/19	10:57 Pacific		Solid			X	X	X			1	
DG-AM7S-7.5-8 (720-90673-20)	1/9/19	11:00 Pacific		Solid			X	X	X			1	
DG-AO7S-0.5-1 (720-90673-21)	1/9/19	11:25 Pacific		Solid			X	X	X			1	
DG-AO7S-3.5-4 (720-90673-22)	1/9/19	11:27 Pacific		Solid			X	X	X			1	
DG-AS7S-0.5-1 (720-90673-23)	1/9/19	13:00 Pacific		Solid			X	X	X			1	
DG-AS7S-3.5-4 (720-90673-24)	1/9/19	13:02 Pacific		Solid			X	X	X			1	
DG-AU7S-0.5-1 (720-90673-25)	1/9/19	13:35 Pacific		Solid			X	X	X			1	
DG-AU7S-3.5-4 (720-90673-26)	1/9/19	13:37 Pacific		Solid			X	X	X			1	
DUP-50 (720-90673-27)	1/9/19	Pacific		Solid			X	X	X			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 1/10/19 1433	Company: TAPS	Received by: / Date/Time: / Company:
Relinquished by:	Date/Time:	Company:	Received by: / Date/Time: / Company:
Relinquished by:	Date/Time:	Company:	Received by: D. Kennedy Date/Time: 1/11/19 9:30 Company: TA IPK
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:

TRK 4786 4574 1146

Temp 2.3/2.5 IR-94

Ver: 09/20/2016

01/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40748.4
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90673-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/21/2019	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				Other:
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastetoil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	8260B_LL/5030B 8260-(MOD)-VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-AR9S-0.5-1 (720-90673-28)	1/9/19	14:05 Pacific		Solid				X	X	X			3	
DG-AR9S-3.5-4 (720-90673-29)	1/9/19	14:07 Pacific		Solid				X	X	X			3	
DUP-65 (720-90673-30)	1/9/19	Pacific		Solid				X	X	X			3	
DG-AD9S-0.5-1 (720-90673-31)	1/9/19	14:55 Pacific		Solid				X	X	X			3	
DG-AD9S-3.5-4 (720-90673-32)	1/9/19	14:57 Pacific		Solid				X	X	X			3	
DG-Z9S-0.5-1 (720-90673-33)	1/9/19	15:30 Pacific		Solid				X	X	X			3	
DG-Z9S-3.5-4 (720-90673-34)	1/9/19	15:32 Pacific		Solid				X	X	X			3	
DUP-63 (720-90673-35)	1/9/19	Pacific		Solid				X	X	X			3	
FB-1.9.19 (720-90673-36)	1/9/19	Pacific		Water							X	X	3	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/10/19 1432	TAPU			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by: A. Renner	Date/Time: 1/11/19	Company: TA IRK

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks.

TRK 478645741146

Temp 2.3 / 2.5 IR-94

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90698-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
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Attention: Mr. Krys Jesionek

Approved for release.
Karen Dahl
Senior Project Manager
1/31/2019 5:58 PM

Designee for
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01/31/2019

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CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
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The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90698-1

Comments
No additional comments.

Receipt
The samples were received on 1/10/2019 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.2º C, 0.4º C, 0.5º C, 1.6º C and 4.5º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
(#12) DG-O11S-0.5-1. The 8oz container labels list time 10:02, while the COC lists time 10:00. Logged time by COC time.
(#13) DG-O11S-3.5-4. The 8oz container labels list time 10:00, while the COC lists time 10:02. Logged time by COC time.
(#23) DG-V13S-7.5-8. The 2oz container labels list ID:DG-V13S- time 12:55, while the COC lists ID: DG-V13S-7.5-8 time 12:55. Logged in using the COC sample ID.

GC/MS VOA
Method 8260B/CA_LUFTMS: The Toluene-d8 and 4-Bromofluorobenzene surrogate recoveries were outside acceptance limits for the following matrix spike duplicate (MSD): DG-V9S-3.5-4 (720-90698-4[MSD]). The MS and parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported. Matrix interference was confirmed.

Method 8260B/CA_LUFTMS: The Toluene-d8 surrogate recoveries were outside the upper control limit for the following samples: DG-T9S-3.5-4 (720-90698-7) & DG-T13S-3.5-4 (720-90698-25). These samples did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B/CA_LUFTMS: The Toluene-d8 and 4-Bromofluorobenzene surrogate recoveries were outside the upper control limits for the following samples: DG-X9S-3.5-4 (720-90698-2), DG-P9S-3.5-4 (720-90698-9), DG-U11S-3.5-4 (720-90698-20), & DG-T13S-0.5-1 (720-90698-24. This sample did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B/CA_LUFTMS: The Toluene-d8 and 4-Bromofluorobenzene surrogate recoveries were above outside control limits for the following samples: DG-N9S-0.5-1 (720-90698-10) and DG-N9S-3.5-4 (720-90698-11). Re-analysis was performed with concurring results. The re-analysis results have been reported.

Method 8260B/CA_LUFTMS: The continuing calibration verification (CCV) associated with batch 440-522715 recovered above the upper control limit for GRO C4-C12. The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B/CA_LUFTMS: The 4-Bromofluorobenzene surrogate recovery was outside the upper control limit for the following sample: DG-Q11S-3.5-4 (720-90698-15). This sample did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B/CA_LUFTMS: The Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples were below outside control limits: DG-N9S-0.5-1 (720-90698-10), DG-N9S-3.5-4 (720-90698-11), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), DUP-89 (720-90698-33). The samples were re-analyzed with concurring results, and the re-analysis results have been reported. Affected results are qualified with a * symbol.

Method 8260B/CA_LUFTMS: The 4-Bromofluorobenzene surrogate recoveries were outside control limits for the following samples: DG-U11S-0.5-1 (720-90698-19) & DUP-89 (720-90698-33). Re-analysis was performed with concurring results.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-522443 recovered above the upper control limit for Vinyl chloride. The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The Toluene-d8 surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD): DG-V9S-3.5-4 (720-90698-4[MSD]). The MS and parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported. Matrix interference was confirmed.

Method 8260B: The Toluene-d8 surrogate recoveries were outside the upper control limits for the following samples: DG-X9S-3.5-4 (720-90698-2), DG-T9S-3.5-4 (720-90698-7), DG-P9S-3.5-4 (720-90698-9), DG-N9S-0.5-1 (720-90698-10), DG-N9S-3.5-4 (720-90698-11), DG-U11S-3.5-4 (720-90698-20), DG-T13S-0.5-1 (720-90698-24), & DG-T13S-3.5-4 (720-90698-25). These samples did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries were outside the upper control limit for the following samples: DG-O11S-0.5-1 (720-90698-12), DG-O11S-3.5-4 (720-90698-13), DG-Q11S-0.5-1 (720-90698-14), DG-P13S-3.5-4 (720-90698-28), DUP-90 (720-90698-29), & DG-N13S-0.5-1 (720-90698-30) These samples did not contain any target analytes; therefore, re-analysis was not performed.

Method 8260B: The 1,2-dichloroethane-d4 surrogate recoveries for the method blank and LCSD associated with analytical batch 440-522630 were outside the upper control limits.

Method 8260B: Internal standard (ISTD) responses for 1,4-Dichlorobenzene-d4 and Chlorobenzene-d5 for the following sample were below acceptance criteria: DG-X9S-3.5-4 (720-90698-2). These ISTDs do not correspond to any of the requested target compounds; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-522644 recovered above the upper control limit for Vinyl chloride, Chloroethane and Chloromethane . The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-V9S-0.5-1 (720-90698-3), DG-N9S-0.5-1 (720-90698-10), DG-N9S-3.5-4 (720-90698-11), DG-U11S-3.5-4 (720-90698-20), DG-T13S-0.5-1 (720-90698-24), DG-T13S-3.5-4 (720-90698-25) and (CCVIS 440-522644/2).

Method 8260B: Internal standard (ISTD) response for 1,4-Dichlorobenzene for the following samples were below control limits: DG-N9S-0.5-1 (720-90698-10) and DG-N9S-3.5-4 (720-90698-11). The samples were re-analyzed with concurring results, and the re-analysis results have been reported. Affected results are qualified with a * symbol.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-522714 recovered above the upper control limit for 1,1-Dichloroethene. The sample results associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples were outside the lower control limit:DG-S11S-3.5-4 (720-90698-18) and DG-U11S-0.5-1 (720-90698-19). The sample was re-analyzed with concurring results, and the re-analysis results have been reported. Matrix interference was confirmed. Affected results are qualified with a * symbol.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-523011 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike duplicate (MSD) recoveries for analytical batch 440-522443 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-523238 and analytical batch 440-523259 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 response for the following sample was outside control limits: DUP-89 (720-90698-33). The sample was re-analyzed with concurring results, and the original results have been reported. Affected results are qualified with a * symbol.

Method 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 response for the following sample was outside control limits: DG-U11S-0.5-1 (720-90698-19). The sample was re-analyzed with concurring results. Affected results are qualified with a * symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C SIM: The following analyte recovered outside control limits for the LCS associated with preparation batch 720-258562 and analytical batch 720-258768: Chrysene. The recovery was confirmed by re-analysis. The batch was not re-extracted due to laboratory error. Routine control chart generation after this batch was analyzed which resulted in a higher upper limit for Chrysene. Qualified results have been reported.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-T13S-0.5-1 (720-90698-24). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258581 and analytical batch 720-258958 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-O11S-3.5-4 (720-90698-13), DG-Q11S-0.5-1 (720-90698-14), DG-Q11S-3.5-4 (720-90698-15), DUP-74 (720-90698-16), DG-S11S-0.5-1 (720-90698-17), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), DG-V13S-0.5-1 (720-90698-21), DG-V13S-3.5-4 (720-90698-22), DUP-91 (720-90698-26), DG-N13S-0.5-1 (720-90698-30), & DUP-89 (720-90698-33 Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following samples required a dilution due to the nature of their sample matrix: DG-N9S-0.5-1 (720-90698-10), DG-Q11S-0.5-1 (720-90698-14), DG-Q11S-3.5-4 (720-90698-15), DUP-74 (720-90698-16), DG-S11S-0.5-1 (720-90698-17), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), DG-V13S-0.5-1 (720-90698-21), DG-V13S-3.5-4 (720-90698-22), DG-T13S-0.5-1 (720-90698-24), & DUP-91 (720-90698-26). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike (MS) recoveries for preparation batch 720-258689 and analytical batch 720-258820 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT, 4,4'-DDD & Dieldrin for the following sample: (720-90673-E-33-G). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The following samples were diluted due to color: DG-N9S-0.5-1 (720-90698-10), DG-Q11S-0.5-1 (720-90698-14), DG-Q11S-3.5-4 (720-90698-15), DUP-74 (720-90698-16), DG-S11S-0.5-1 (720-90698-17), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), & DG-V13S-0.5-1 (720-90698-21). Elevated reporting limits (RL) are provided.

Method 8081A: The following sample was diluted due its appearance. Its extract was dark and opaque: DUP-91 (720-90698-26). Elevated reporting limits (RL) are provided.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258580 and analytical batch 720-258821 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits. Results flagged with an F2 flag were reported from a column with an RPD outside of control limits.

Method 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for 4,4'-DDE and 4,4'-DDD for the following sample: DG-T9S-0.5-1 (720-90698-6). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD for the following sample: DG-N13S-3.5-4 (720-90698-31). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258691 and analytical batch 720-259087 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Results flagged with an F1 or F2 flag were reported from a column with recoveries or an RPD outside of control limits.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD for the following sample: DG-O15S-0.5-1 (720-90698-34). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The laboratory control sample (LCS) for preparation batch 720-258691 and analytical batch 720-259019 recovered outside control limits for the following analytes: Endrin aldehyde. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8081A: The laboratory control sample (LCS) for preparation batch 720-258691 and analytical batch 720-259019 recovered outside control limits for the following analytes on the front column. These analytes were reported from the back column, which was wihtin control limits. Samples reported from the front column for these analytes will be flagged with an asterisk (*).

Analyte	**Recovery**
Dieldrin	123%
Endosulfan I	123%
Endosulfan II	130%
Endosulfan sulfate	124%
Endrin	128%
Endrin aldehyde	142%

Method 8081A: The laboratory control sample (LCS) associated with preparation batch 720-258580 and analytical batch 720-258820 was outside acceptance criteria for Endrin aldehyde-124% and Endosulfan II-123% on the front column. The lower value from the back column was reported, which was within control limits. Samples reported from the front column for these analytes will be flagged with an asterisk (*).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258347 and analytical batch 720-258609 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The post digestion spike % recovery for Barium-141%, Beryllium-131%, Chromium-126%, Copper-134% and Vanadium-133% associated with batch 720-258609 was outside of control limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-258609 was outside control limits for: Barium-18%, Cobalt-28%, Chromium-24%, Nickel-25% and Vanadium-22% (720-90698-E-31-C SD)

Method(s) 6010B: The method blank for preparation batch 720-258347 and analytical batch 720-258609 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis

of samples was not performed.

Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 720-258600 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected results are qualified with a ^ symbol.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries & RPDs for preparation batch 720-258337 and analytical batch 720-258600 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The post digestion spike % recovery for Vanadium-127%, Zinc-895%, Barium-370%, Beryllium-127%, Copper-342% and Lead-1237% associated with batch 720-258600 was outside of control limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 720-258600 was outside control limits for : Barium-164%, Copper-171%, Lead-170% and Zinc-163% (720-90698-E-4-F SD)

Method(s) 6010B: The method blank for preparation batch 720-258337 and analytical batch 720-258679 contained Chromium & Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-X9S-0.5-1 (720-90698-1), DG-X9S-3.5-4 (720-90698-2), DG-V9S-0.5-1 (720-90698-3), DG-V9S-3.5-4 (720-90698-4), DG-V9S-7.5-8 (720-90698-5), DG-T9S-0.5-1 (720-90698-6), DG-T9S-3.5-4 (720-90698-7), DG-N9S-0.5-1 (720-90698-10), DG-N9S-3.5-4 (720-90698-11), DG-O11S-0.5-1 (720-90698-12), DG-O11S-3.5-4 (720-90698-13), DG-Q11S-0.5-1 (720-90698-14), DG-Q11S-3.5-4 (720-90698-15), DUP-74 (720-90698-16), DG-S11S-0.5-1 (720-90698-17), DG-S11S-3.5-4 (720-90698-18), DG-U11S-0.5-1 (720-90698-19), DG-U11S-3.5-4 (720-90698-20), DG-T13S-3.5-4 (720-90698-25), DG-T13S-3.5-4 (720-90698-25[MS]) and DG-T13S-3.5-4 (720-90698-25[MSD]), & DUP-91 (720-90698-26). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-258337 and analytical batch 720-258679 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7471A: The matrix spike (MS) recovery for preparation batch 720-258616 and analytical batch 720-258798 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (720-90698-34)

Method(s) 7471A: Due to the high concentration of Mercury, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-258616 and analytical batch 720-258798 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (720-90698-35)

Method(s) 7471A: The following samples were diluted to bring the concentration of target analytes within the calibration range Mercury: DG-O15S-0.5-1 (720-90698-34), DG-O15S-0.5-1 (720-90698-34[MS]) and DG-O15S-0.5-1 (720-90698-34[MSD]). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_028.d
Lims ID: 720-90698-E-1-C
Client ID: DG-X9S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 22:15:56 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 008 Name: 720-0056158-028
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:35:21 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:35:21

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.479	2.548	-0.069	371	NC	
	23 n-Decane	3.808	3.794	0.014	1293	NC	
A	21 Stoddard Solvent	4.531	(2.548-6.514)		16221	NC	
A	1 C9-C13	4.531	(2.548-6.514)		16221	NC	
A	57 C10-C12	4.752	(3.794-5.710)		8523	0.8696	
	24 Dodecane		5.710			ND	
A	3 C9 - C17	5.896	(2.548-9.244)		79468	6.56	
A	47 C9 - C18	6.183	(2.548-9.817)		120689	11.2	
A	60 C10-C16	6.200	(3.794-8.605)		59342	5.38	
A	25 C9-C19	6.462	(2.548-10.375)		210932	17.3	
A	15 Kerosene	6.462	(2.548-10.375)		210932	19.6	
	26 C13	6.492	6.514	-0.022	2634	NC	
$	27 n-Decanoic Acid (Surr)		7.155			ND	U
A	59 C12-C16	7.157	(5.710-8.605)		53362	5.44	
A	62 C10-C20	7.353	(3.794-10.912)		543581	55.5	
A	28 C9-C24	7.695	(2.548-12.842)		1528957	156.0	
A	29 C9-C25	7.914	(2.548-13.279)		1528957	156.0	
A	54 C10-C23	8.091	(3.794-12.389)		1133889	115.7	
A	4 C10-C24	8.318	(3.794-12.842)		1524159	155.5	
A	16 C10-C25	8.536	(3.794-13.279)		1524159	155.5	
	45 Hexadecane	8.601	8.605	-0.004	14345	NC	
A	14 C10-C26	8.747	(3.794-13.700)		2012672	205.4	
A	67 C12-C22	8.813	(5.710-11.916)		872484	89.0	
A	5 Diesel	9.146	(3.794-14.499)		2433740	248.3	
A	32 C10-C28	9.146	(3.794-14.499)		2433740	248.3	
A	12 Unknown Hydrocarbons	9.146	(3.794-14.499)		2433740	NC	
A	30 C13-C22	9.215	(6.514-11.916)		869675	88.7	
	44 Heptadecane	9.251	9.244	0.007	41221	NC	
A	31 C12-C24	9.276	(5.710-12.842)		1518179	154.9	
	49 n-Octadecane	9.824	9.817	0.007	90243	NC	
A	11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		4713883	NC	
A	52 Mineral oil	9.889	(2.548-17.229)		5615461	501.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		5615461	NC	
33 C19		10.375			ND	
A 64 C13-C28	10.507	(6.514-14.499)		2424951	247.4	
A 17 C10-C36	10.512	(3.794-17.229)		4709085	480.5	
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		6756098	NC	
A 13 C9-C40	10.665	(2.548-18.782)		6756098	817.6	
A 58 C16-C24	10.724	(8.605-12.842)		1479162	150.9	
61 icosane		10.912			ND	
A 6 C10-C40	11.288	(3.794-18.782)		6748866	817.1	
$ 34 p-Terphenyl	11.897	11.908	-0.011	263924	22.1	
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		6729653	815.1	
36 Tricosane	12.390	12.389	0.001	87828	NC	
A 66 C13-C40	12.648	(6.514-18.782)		6717105	813.6	
37 n-Tetracosane	12.840	12.842	-0.002	139899	NC	
A 2 C16-C36 ORO	12.917	(8.605-17.229)		5484133	722.6	
38 C25	13.281	13.279	0.002	228081	NC	
A 19 C16-C40	13.694	(8.605-18.782)		6624770	802.5	
46 n-Hexacosane	13.689	13.700	-0.011	260432	NC	
A 20 C19-C36	13.802	(10.375-17.229)		4682641	542.7	
A 55 C23-C32	14.167	(12.389-15.946)		3082911	648.3	
39 n-Octacosane		14.499			ND	
65 C29	14.876	14.878	-0.002	376830	NC	
A 40 C24-C36	15.036	(12.842-17.229)		3573389	586.6	
A 7 Motor Oil	15.036	(12.842-17.229)		3573389	586.6	
A 50 C25-C36	15.254	(13.279-17.229)		3310758	572.2	
A 10 C22-C40	15.349	(11.916-18.782)		4884296	584.2	
A 41 C23-C40	15.585	(12.389-18.782)		4860412	592.6	
A 8 C24-C40	15.812	(12.842-18.782)		4605215	578.9	
56 Dotriacontane	15.950	15.946	0.004	142846	NC	
A 51 C28-C40	16.641	(14.499-18.782)		3451582	550.8	
A 63 C29-C40	16.830	(14.878-18.782)		3072166	539.0	
42 n-Hexatriacontane	17.245	17.229	0.016	455491	NC	
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

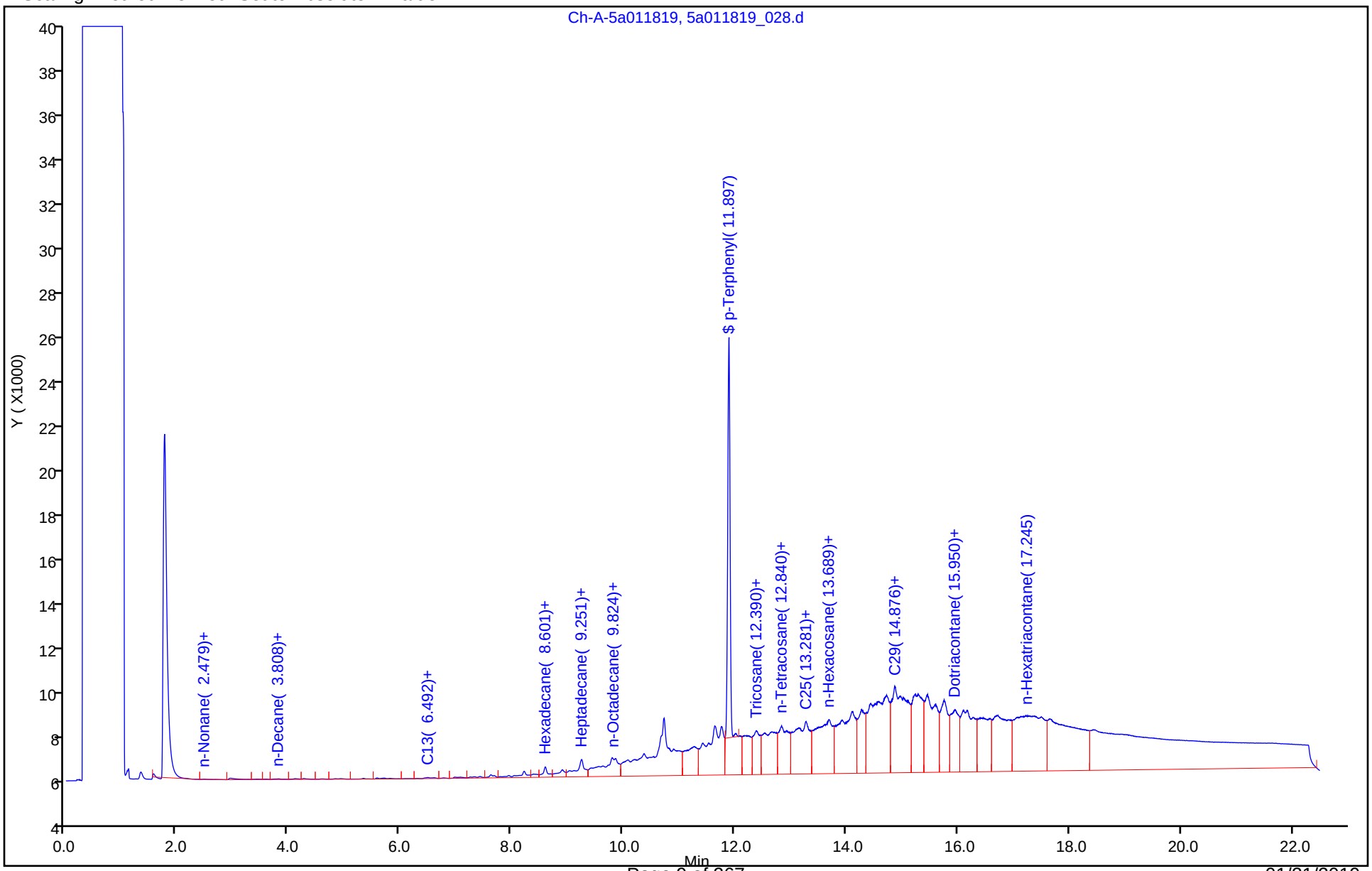
Report Date: 21-Jan-2019 12:35:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_028.d

Injection Date:	18-Jan-2019 22:15:56	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-1-C	Lab Sample ID:	720-90698-1	Worklist Smp#:	28
Client ID:	DG-X9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_028.d				
Lims ID:	720-90698-E-1-C				
Client ID:	DG-X9S-0.5-1				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 22:15:56	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 008 Name: 720-0056158-028				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:35:21	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 12:35:21

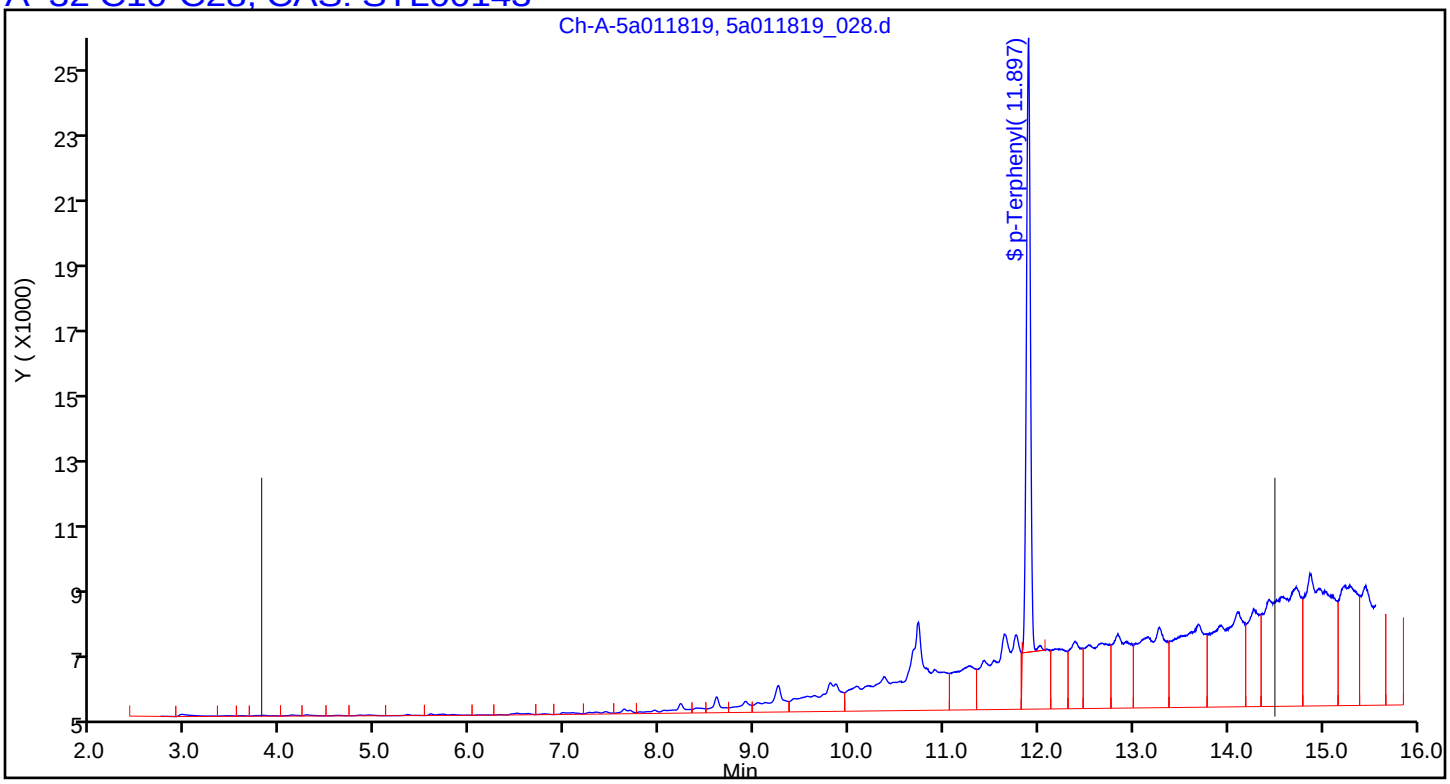
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.1	88.53

Report Date: 21-Jan-2019 12:35:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_028.d				
Injection Date:	18-Jan-2019 22:15:56	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-1-C	Lab Sample ID:	720-90698-1		
Client ID:	DG-X9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

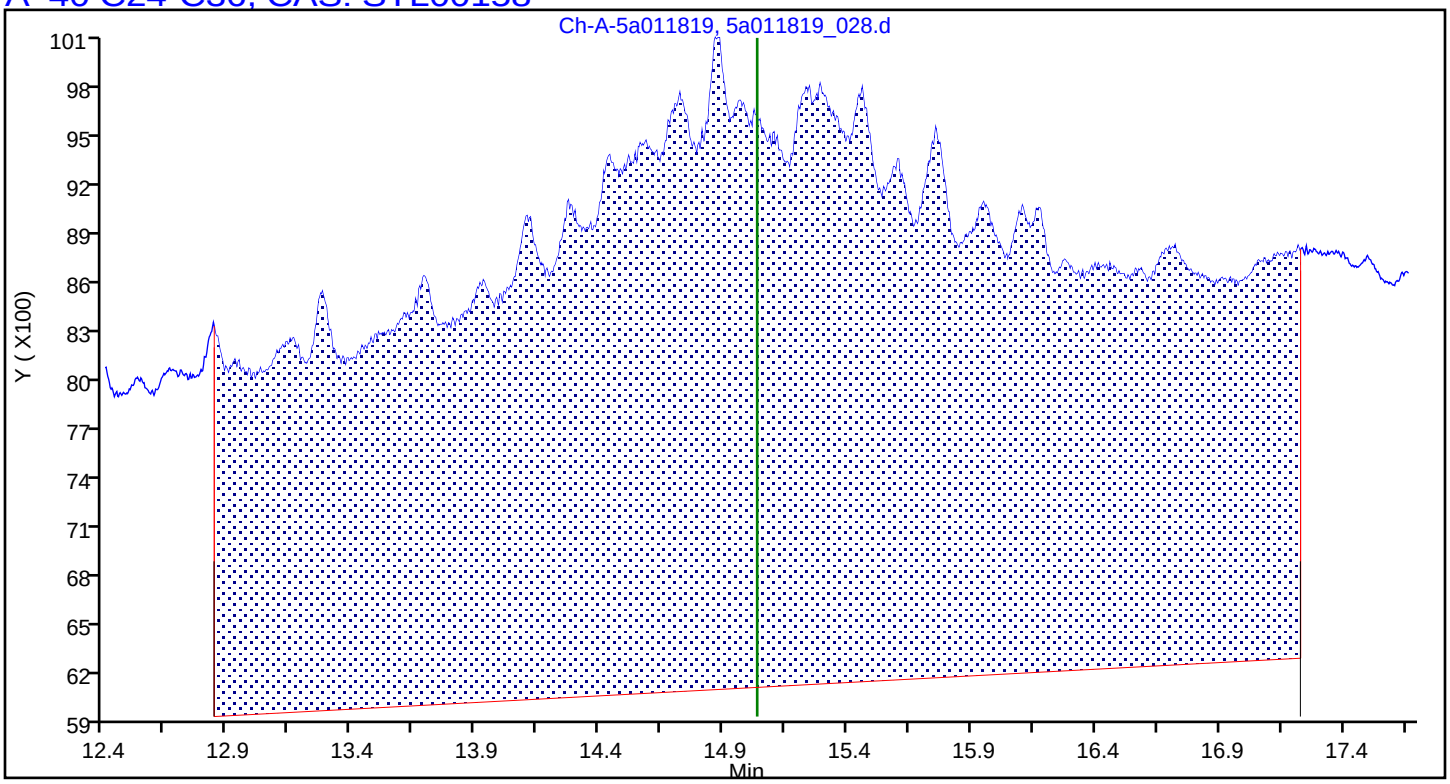


Report Date: 21-Jan-2019 12:35:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_028.d				
Injection Date:	18-Jan-2019 22:15:56	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-1-C	Lab Sample ID:	720-90698-1		
Client ID:	DG-X9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_025.d
Lims ID: 720-90698-E-2-C
Client ID: DG-X9S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 20:48:22 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0056158-025
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:32:17 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:32:17

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.551	2.548	0.003	3906	NC	
	23 n-Decane		3.794			ND	
A	21 Stoddard Solvent	4.531	(2.548-6.514)		307136	NC	
A	1 C9-C13	4.531	(2.548-6.514)		307136	NC	
A	57 C10-C12	4.752	(3.794-5.710)		211037	21.5	
	24 Dodecane		5.710			ND	
A	3 C9 - C17	5.896	(2.548-9.244)		701482	57.9	
A	47 C9 - C18	6.183	(2.548-9.817)		938033	87.1	
A	60 C10-C16	6.200	(3.794-8.605)		594985	54.0	
A	25 C9-C19	6.462	(2.548-10.375)		1078415	88.4	
A	15 Kerosene	6.462	(2.548-10.375)		1078415	100.0	
	26 C13	6.490	6.514	-0.024	54013	NC	
$	27 n-Decanoic Acid (Surr)		7.155			ND	U
A	59 C12-C16	7.157	(5.710-8.605)		429718	43.8	
A	62 C10-C20	7.353	(3.794-10.912)		1478410	150.8	
A	28 C9-C24	7.695	(2.548-12.842)		3349284	341.7	
A	29 C9-C25	7.914	(2.548-13.279)		3729544	380.5	
A	54 C10-C23	8.091	(3.794-12.389)		2784569	284.1	
A	4 C10-C24	8.318	(3.794-12.842)		3315852	338.3	
A	16 C10-C25	8.536	(3.794-13.279)		3696112	377.1	
	45 Hexadecane	8.596	8.605	-0.009	49181	NC	
A	14 C10-C26	8.747	(3.794-13.700)		4189444	427.5	
A	67 C12-C22	8.813	(5.710-11.916)		2350871	239.9	
A	5 Diesel	9.146	(3.794-14.499)		5089211	519.3	
A	32 C10-C28	9.146	(3.794-14.499)		5089211	519.3	
A	12 Unknown Hydrocarbons	9.146	(3.794-14.499)		5089211	NC	
A	30 C13-C22	9.215	(6.514-11.916)		2296447	234.3	
	44 Heptadecane	9.299	9.244	0.055	73180	NC	
A	31 C12-C24	9.276	(5.710-12.842)		3150585	321.5	
	49 n-Octadecane	9.726	9.817	-0.091	163371	NC	
A	11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		7922562	NC	
A	52 Mineral oil	9.889	(2.548-17.229)		8144714	727.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		8144714	NC	
33 C19		10.375			ND	
A 64 C13-C28	10.507	(6.514-14.499)		4869520	496.8	
A 17 C10-C36	10.512	(3.794-17.229)		7889130	804.9	
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		9172848	NC	
A 13 C9-C40	10.665	(2.548-18.782)		9172848	1125.6	
A 58 C16-C24	10.724	(8.605-12.842)		2770048	282.6	
61 icosane	10.990	10.912	0.078	105213	NC	
A 6 C10-C40	11.288	(3.794-18.782)		9127475	1120.2	
$ 34 p-Terphenyl	11.897	11.908	-0.011	266777	22.4	M
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		8910781	1093.0	
36 Tricosane	12.387	12.389	-0.002	142578	NC	
A 66 C13-C40	12.648	(6.514-18.782)		8834580	1083.4	
37 n-Tetracosane	12.839	12.842	-0.003	247766	NC	
A 2 C16-C36 ORO	12.917	(8.605-17.229)		7417007	977.3	
38 C25	13.277	13.279	-0.002	380260	NC	
A 19 C16-C40	13.694	(8.605-18.782)		8445141	1034.6	
46 n-Hexacosane	13.694	13.700	-0.006	493332	NC	
A 20 C19-C36	13.802	(10.375-17.229)		6245091	723.8	
A 55 C23-C32	14.167	(12.389-15.946)		3988161	838.7	
39 n-Octacosane	14.410	14.499	-0.089	535408	NC	
65 C29	14.874	14.878	-0.004	384706	NC	
A 40 C24-C36	15.036	(12.842-17.229)		4231477	694.6	
A 7 Motor Oil	15.036	(12.842-17.229)		4231477	694.6	
A 50 C25-C36	15.254	(13.279-17.229)		3801715	657.1	
A 10 C22-C40	15.349	(11.916-18.782)		5703239	682.2	
A 41 C23-C40	15.585	(12.389-18.782)		5551842	677.0	
A 8 C24-C40	15.812	(12.842-18.782)		5126801	644.5	
56 Dotriacontane	15.889	15.946	-0.057	297814	NC	
A 51 C28-C40	16.641	(14.499-18.782)		3376308	537.4	
A 63 C29-C40	16.830	(14.878-18.782)		2964694	517.8	
42 n-Hexatriacontane		17.229			ND	
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

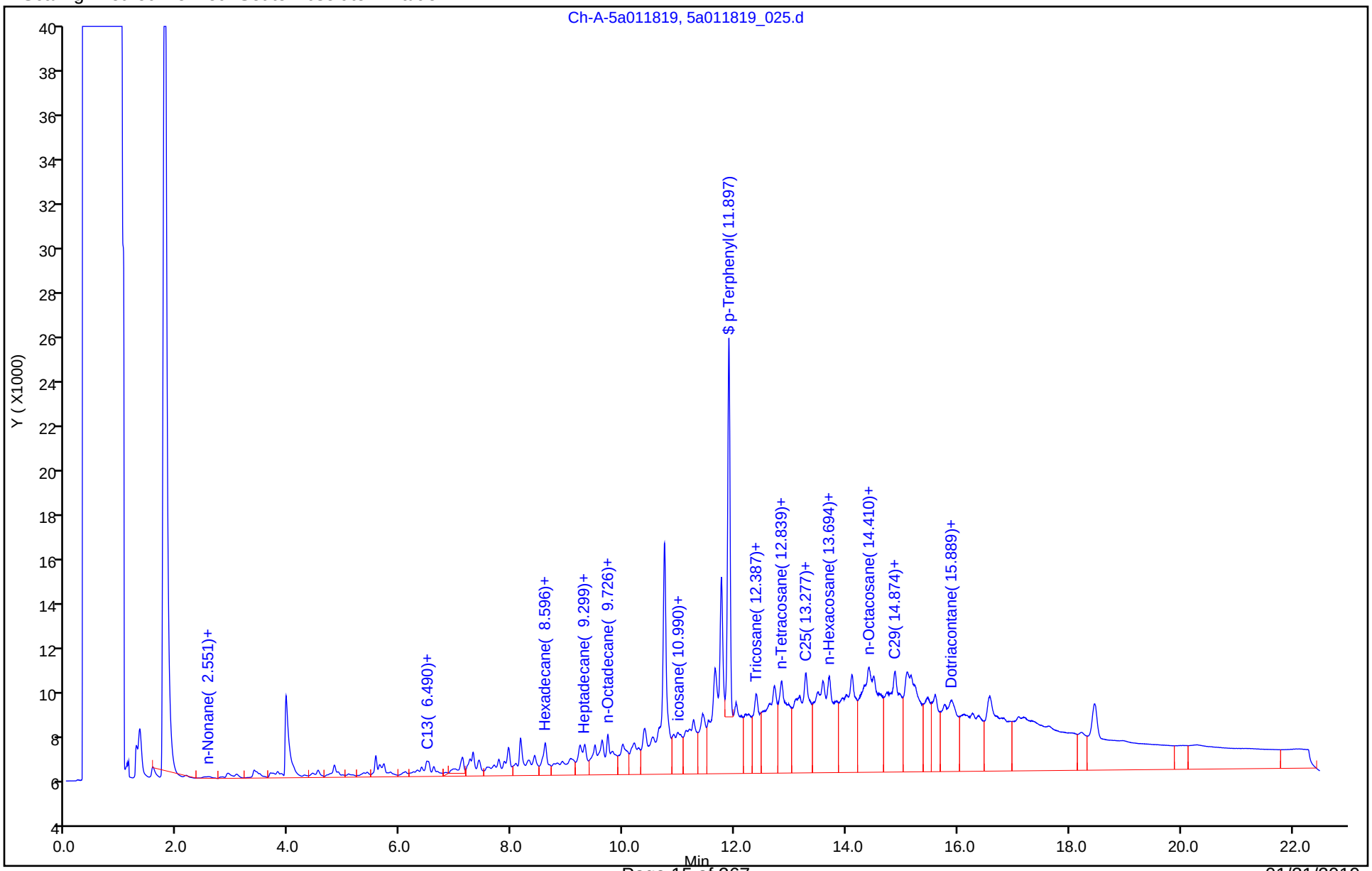
Report Date: 21-Jan-2019 12:32:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_025.d

Injection Date:	18-Jan-2019 20:48:22	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-2-C	Lab Sample ID:	720-90698-2	Worklist Smp#:	25
Client ID:	DG-X9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_025.d				
Lims ID:	720-90698-E-2-C				
Client ID:	DG-X9S-3.5-4				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 20:48:22	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0056158-025				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:32:17	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 12:32:17

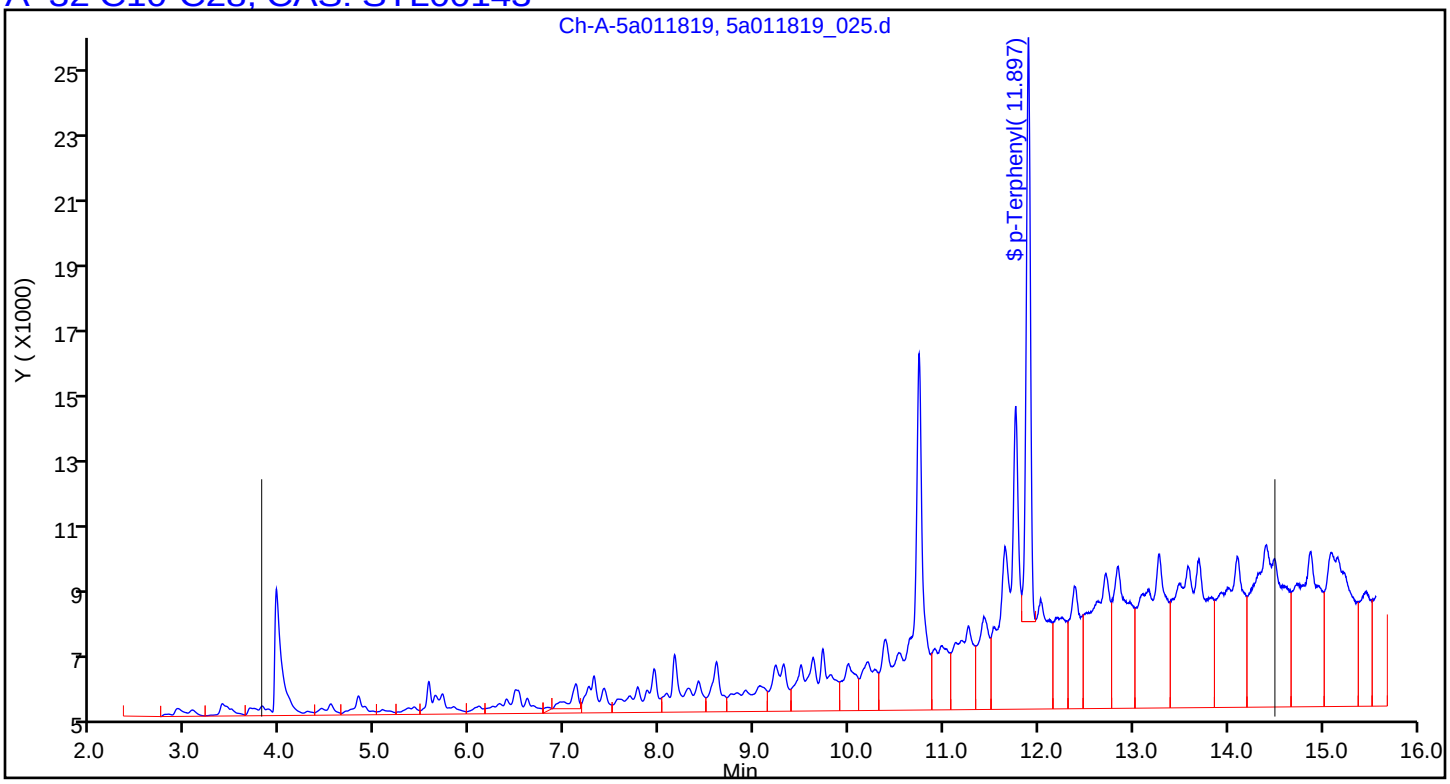
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.4	89.49

Report Date: 21-Jan-2019 12:32:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_025.d				
Injection Date:	18-Jan-2019 20:48:22	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-2-C	Lab Sample ID:	720-90698-2		
Client ID:	DG-X9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

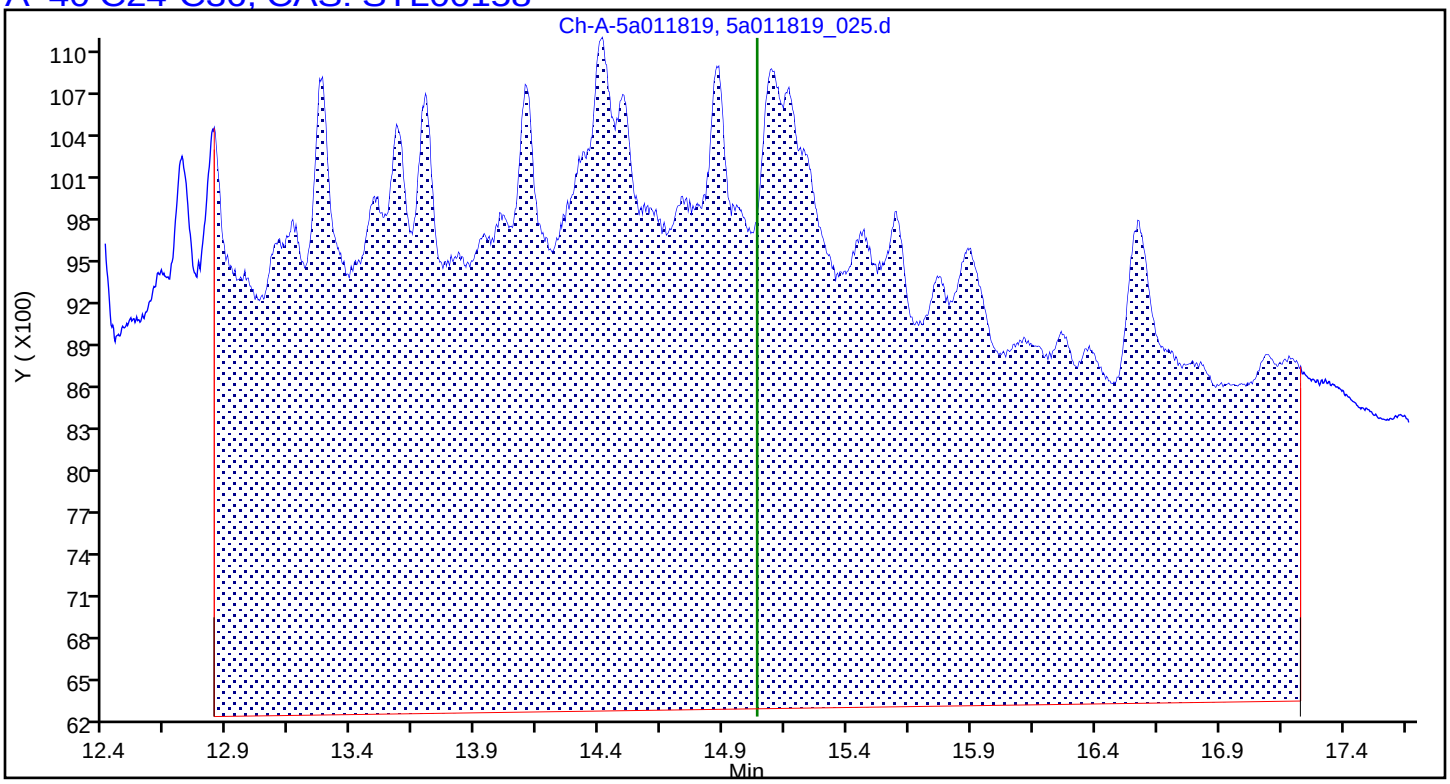


Report Date: 21-Jan-2019 12:32:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_025.d				
Injection Date:	18-Jan-2019 20:48:22	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-2-C	Lab Sample ID:	720-90698-2		
Client ID:	DG-X9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

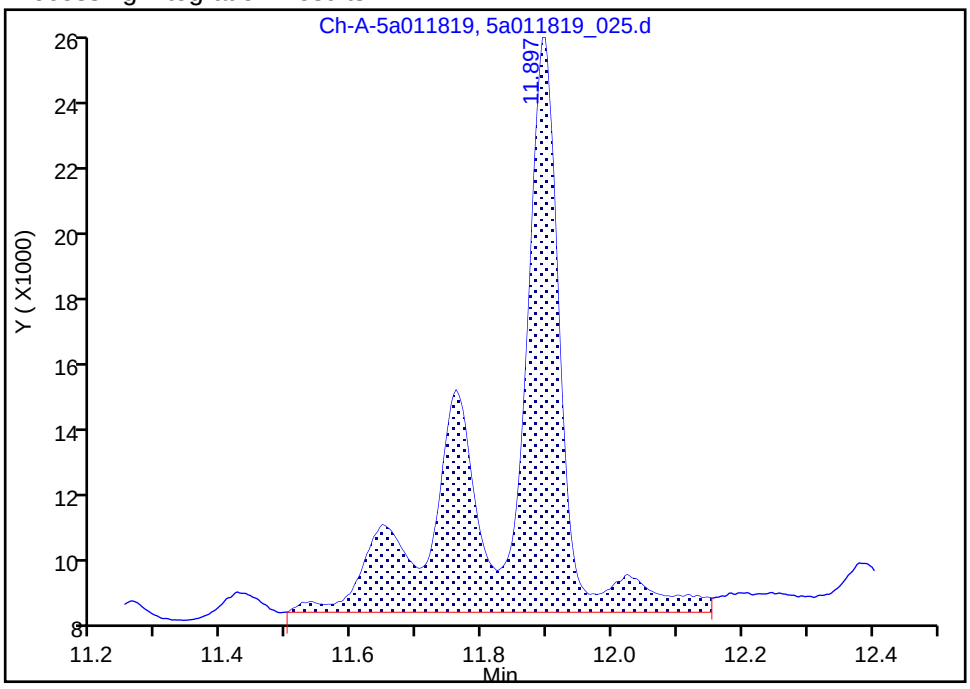
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_025.d				
Injection Date:	18-Jan-2019 20:48:22	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-2-C	Lab Sample ID:	720-90698-2		
Client ID:	DG-X9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

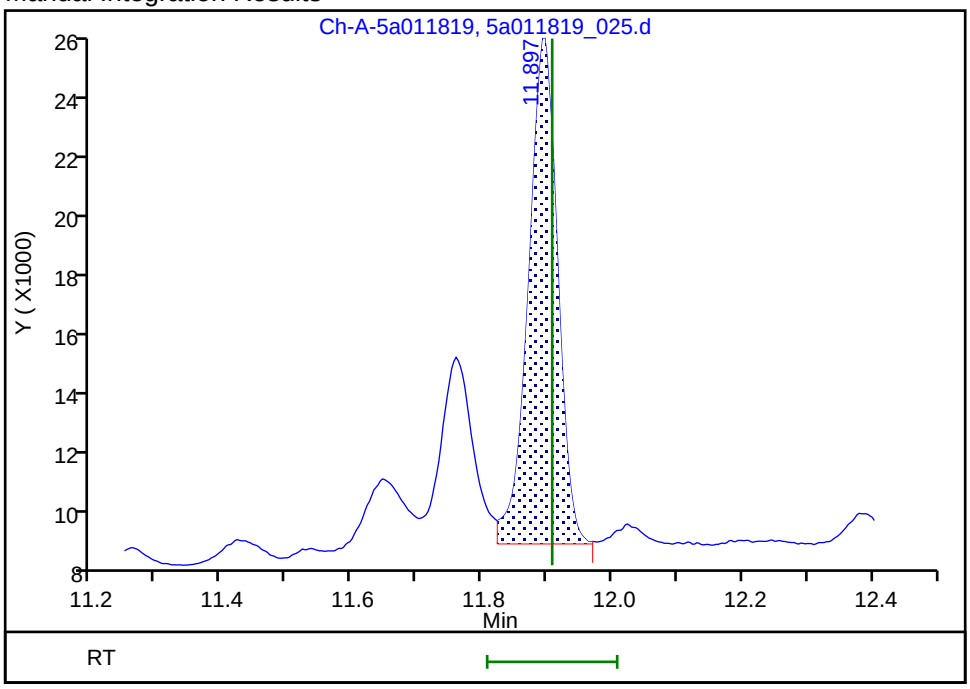
Processing Integration Results

RT: 11.90
Area: 517267
Amount: 43.377002
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 266777
Amount: 22.371399
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 12:32:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_023.d
Lims ID: 720-90698-E-3-C
Client ID: DG-V9S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 19:49:41 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0056158-023
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:28:18 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:28:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.548			ND	
23 n-Decane	3.814	3.794	0.020	962	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		392683	NC	
A 1 C9-C13	4.531	(2.548-6.514)		392683	NC	
A 57 C10-C12	4.752	(3.794-5.710)		6017	0.6139	
24 Dodecane	5.731	5.710	0.021	1542	NC	
A 3 C9 - C17	5.896	(2.548-9.244)		403225	33.3	M
A 47 C9 - C18	6.183	(2.548-9.817)		407001	37.8	M
A 60 C10-C16	6.200	(3.794-8.605)		16799	1.52	M
A 25 C9-C19	6.462	(2.548-10.375)		418382	34.3	M
A 15 Kerosene	6.462	(2.548-10.375)		418382	38.8	M
26 C13	6.484	6.514	-0.030	1061	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	
A 59 C12-C16	7.157	(5.710-8.605)		10782	1.10	M
A 62 C10-C20	7.353	(3.794-10.912)		83827	8.55	M
A 28 C9-C24	7.695	(2.548-12.842)		593589	60.6	M
A 29 C9-C25	7.914	(2.548-13.279)		628191	64.1	M
A 54 C10-C23	8.091	(3.794-12.389)		166644	17.0	M
A 4 C10-C24	8.318	(3.794-12.842)		209526	21.4	M
A 16 C10-C25	8.536	(3.794-13.279)		244128	24.9	M
45 Hexadecane	8.607	8.605	0.002	1037	NC	M
A 14 C10-C26	8.747	(3.794-13.700)		289531	29.5	M
A 67 C12-C22	8.813	(5.710-11.916)		148553	15.2	M
A 5 Diesel	9.146	(3.794-14.499)		380080	38.8	M
A 32 C10-C28	9.146	(3.794-14.499)		380080	38.8	M
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		380080	NC	M
A 30 C13-C22	9.215	(6.514-11.916)		147011	15.0	M
44 Heptadecane	9.247	9.244	0.003	2198	NC	M
A 31 C12-C24	9.276	(5.710-12.842)		203509	20.8	M
49 n-Octadecane	9.860	9.817	0.043	3088	NC	M
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		1229665	NC	M
A 52 Mineral oil	9.889	(2.548-17.229)		1313721	117.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		1313721	NC	
33 C19	10.290	10.375	-0.085	5260	NC	M
A 64 C13-C28	10.507	(6.514-14.499)		372521	38.0	M
A 17 C10-C36	10.512	(3.794-17.229)		845602	86.3	M
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		1941192	NC	
A 13 C9-C40	10.665	(2.548-18.782)		1941192	203.9	
A 58 C16-C24	10.724	(8.605-12.842)		192727	19.7	M
61 icosane		10.912			ND	
A 6 C10-C40	11.288	(3.794-18.782)		1936513	203.8	
$ 34 p-Terphenyl	11.893	11.908	-0.015	268753	22.5	M
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		1926367	203.1	
36 Tricosane	12.390	12.389	0.001	11479	NC	M
A 66 C13-C40	12.648	(6.514-18.782)		1921627	202.7	
37 n-Tetracosane	12.837	12.842	-0.005	31403	NC	M
A 2 C16-C36 ORO	12.917	(8.605-17.229)		1271631	167.6	
38 C25	13.277	13.279	-0.002	34602	NC	M
A 19 C16-C40	13.694	(8.605-18.782)		1899102	200.2	
46 n-Hexacosane	13.693	13.700	-0.007	16212	NC	M
A 20 C19-C36	13.802	(10.375-17.229)		846037	98.0	
A 55 C23-C32	14.167	(12.389-15.946)		601805	126.6	
39 n-Octacosane	14.490	14.499	-0.009	47468	NC	M
65 C29	14.870	14.878	-0.008	43767	NC	M
A 40 C24-C36	15.036	(12.842-17.229)		738258	121.2	
A 7 Motor Oil	15.036	(12.842-17.229)		738258	121.2	
A 50 C25-C36	15.254	(13.279-17.229)		712230	123.1	
A 10 C22-C40	15.349	(11.916-18.782)		1095464	131.0	
A 41 C23-C40	15.585	(12.389-18.782)		1302490	158.8	
A 8 C24-C40	15.812	(12.842-18.782)		1279519	160.8	
56 Dotriacontane	15.937	15.946	-0.009	63967	NC	M
A 51 C28-C40	16.641	(14.499-18.782)		1132148	159.1	
A 63 C29-C40	16.830	(14.878-18.782)		1082007	165.9	
42 n-Hexatriacontane		17.229			ND	
43 C40	18.857	18.782	0.075	320349	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

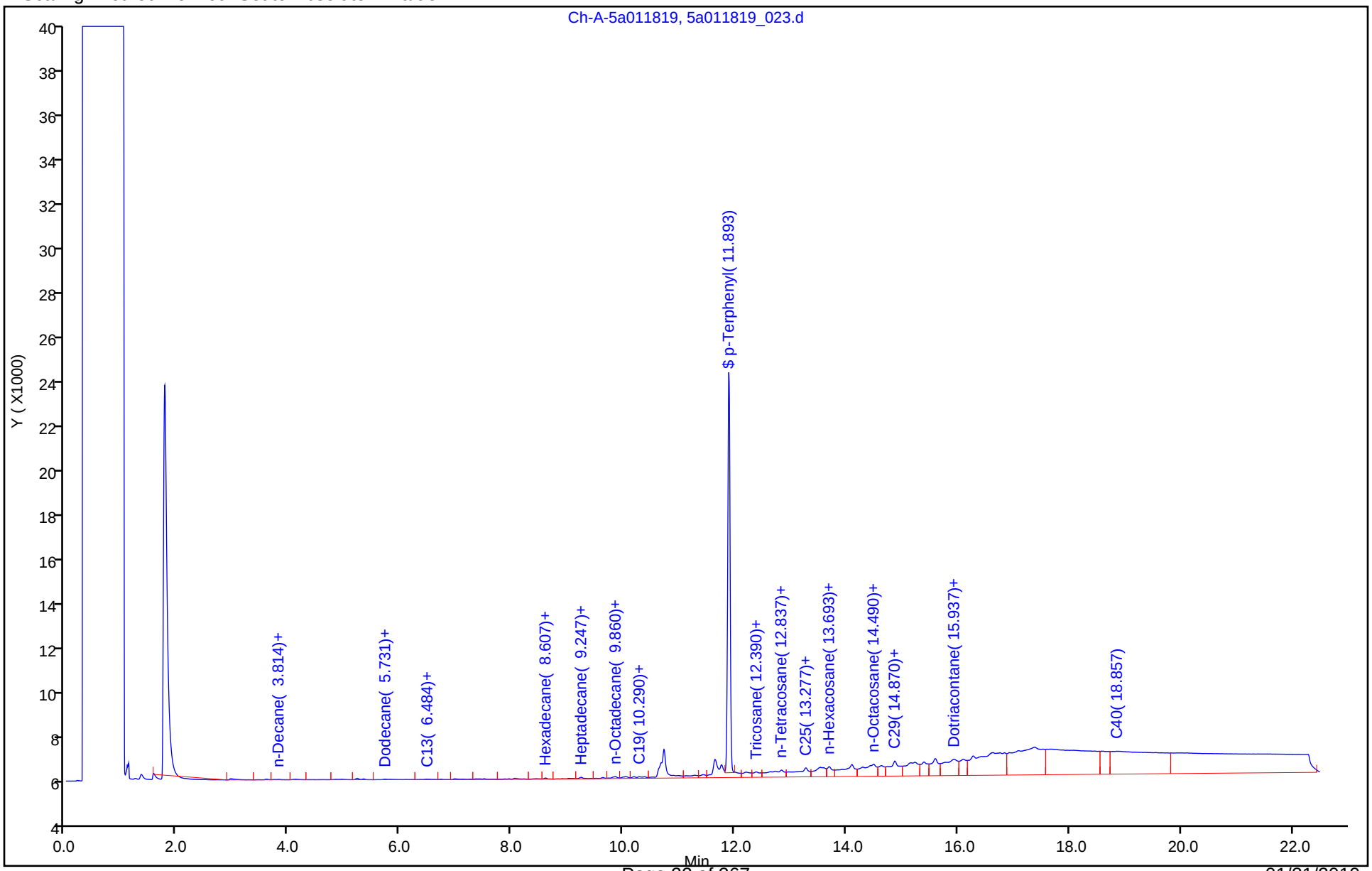
Report Date: 21-Jan-2019 12:28:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_023.d

Injection Date:	18-Jan-2019 19:49:41	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-3-C	Lab Sample ID:	720-90698-3	Worklist Smp#:	23
Client ID:	DG-V9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_023.d				
Lims ID:	720-90698-E-3-C				
Client ID:	DG-V9S-0.5-1				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 19:49:41	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0056158-023				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:28:18	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 12:28:18

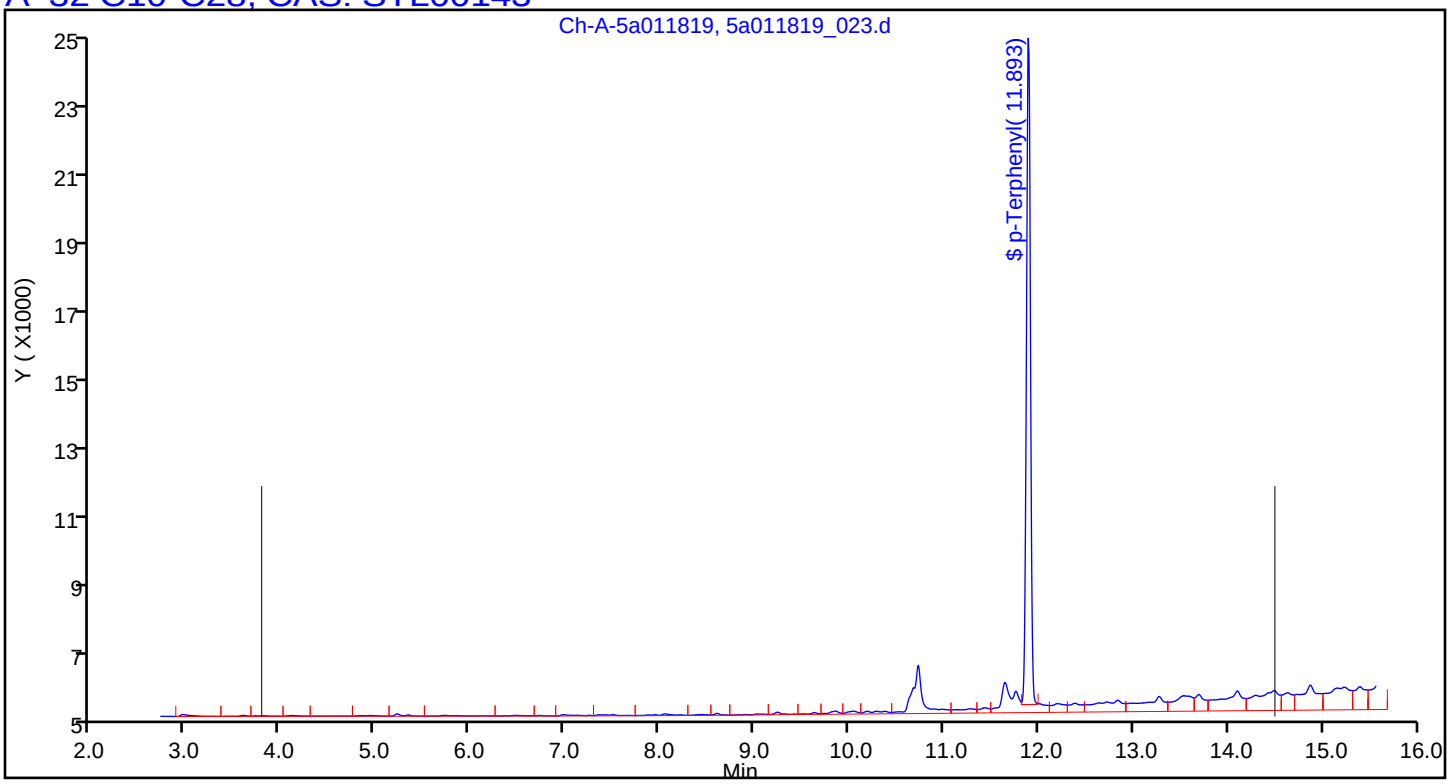
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.5	90.15

Report Date: 21-Jan-2019 12:28:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_023.d				
Injection Date:	18-Jan-2019 19:49:41	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-3-C	Lab Sample ID:	720-90698-3		
Client ID:	DG-V9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

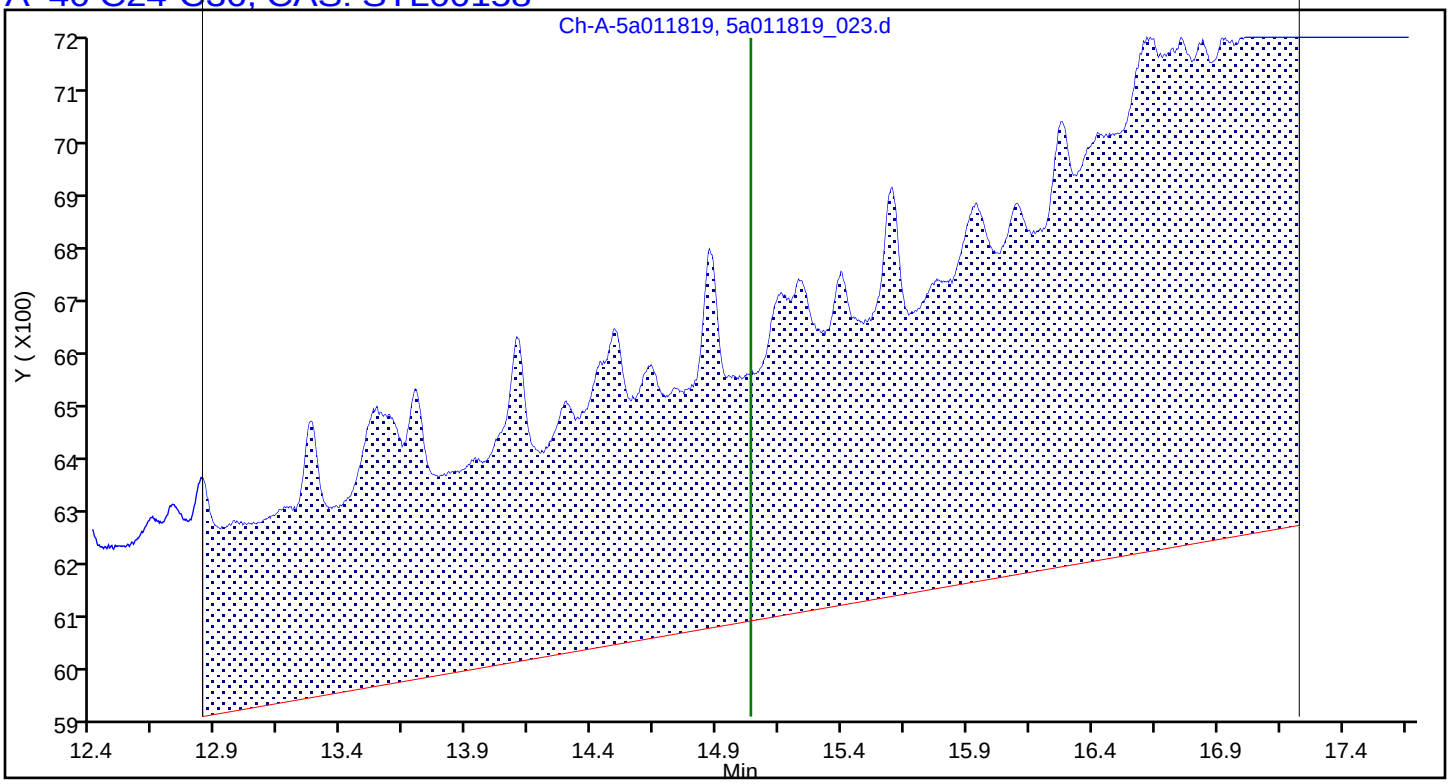


Report Date: 21-Jan-2019 12:28:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_023.d				
Injection Date:	18-Jan-2019 19:49:41	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-3-C	Lab Sample ID:	720-90698-3		
Client ID:	DG-V9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

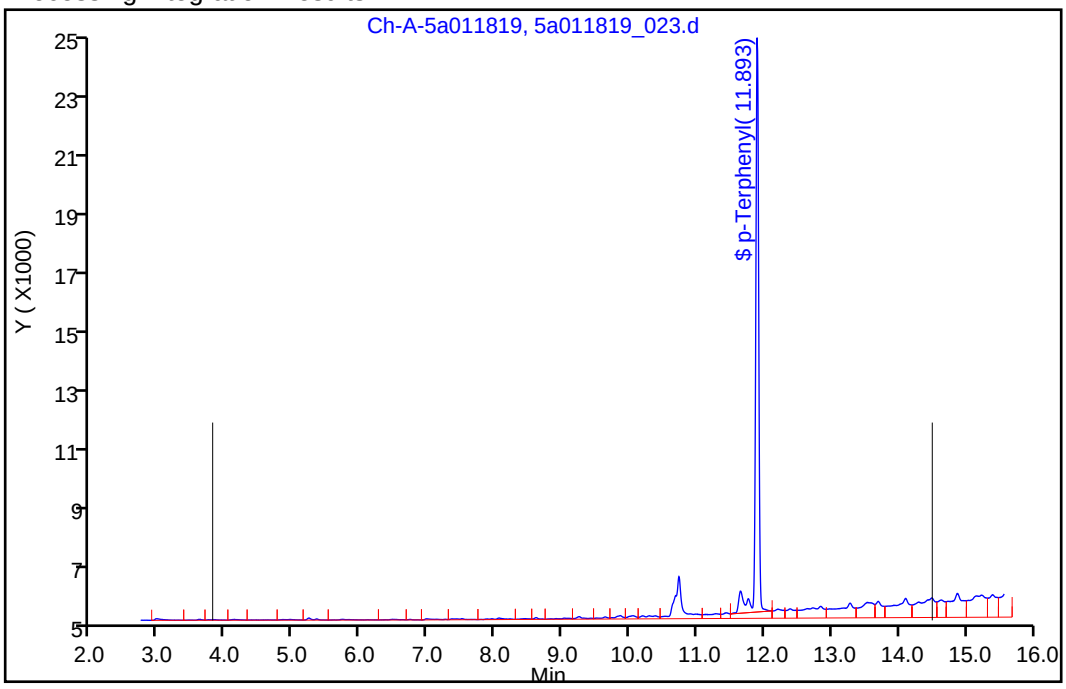
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Injection Date:	18-Jan-2019 19:49:41	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-3-C	Lab Sample ID:	720-90698-3		
Client ID:	DG-V9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.146, CAS: STL00143

Signal: 1

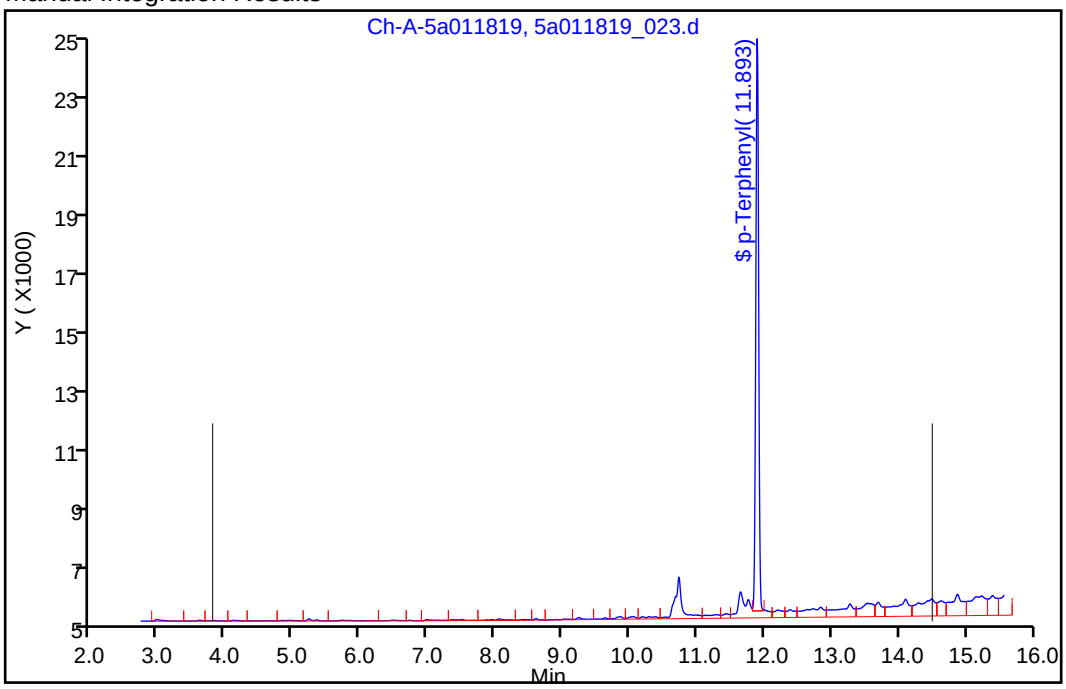
Processing Integration Results

RT: 9.15
Response: 416852
Amount: 42.531521



Manual Integration Results

RT: 9.15
Response: 380080
Amount: 38.779664



Reviewer: luj, 21-Jan-2019 12:27:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

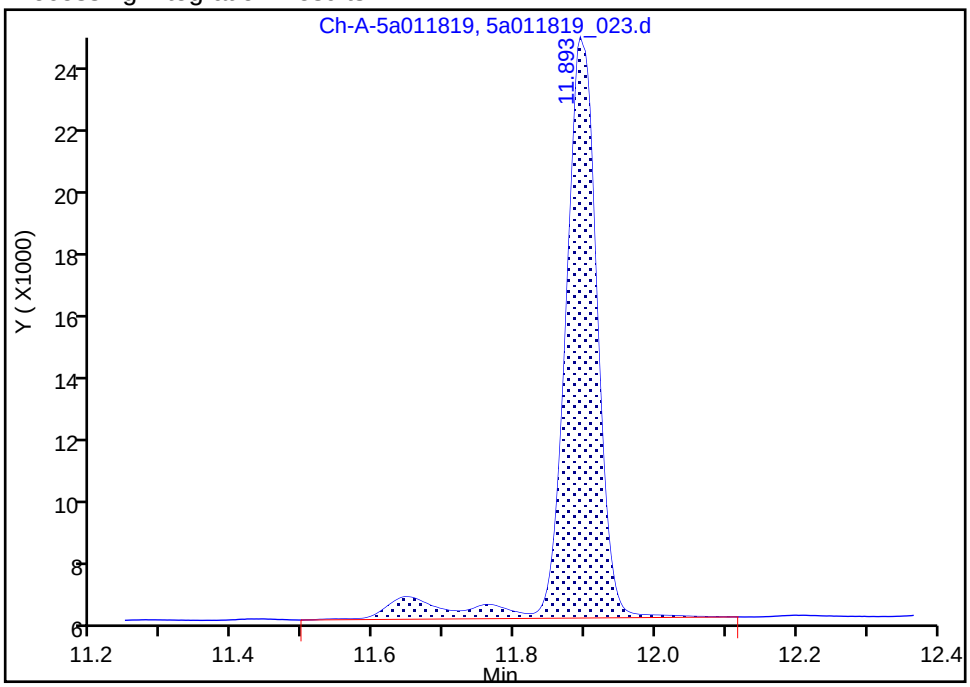
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Injection Date:	18-Jan-2019 19:49:41	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-3-C	Lab Sample ID:	720-90698-3		
Client ID:	DG-V9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

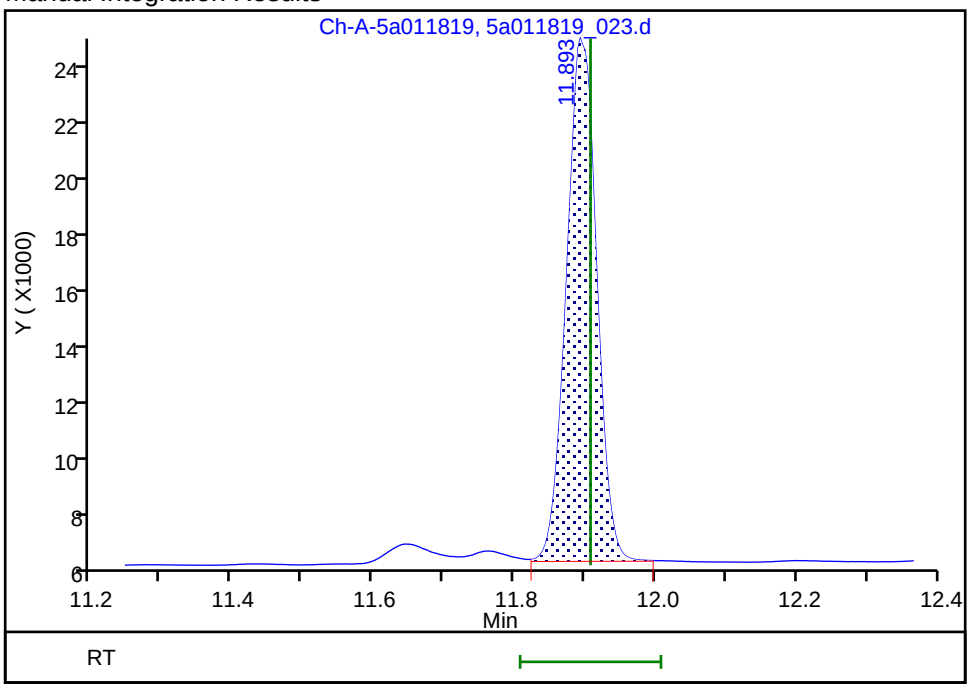
Processing Integration Results

RT: 11.89
Area: 299021
Amount: 25.075318
Amount Units: mg/L



Manual Integration Results

RT: 11.89
Area: 268753
Amount: 22.537102
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 12:28:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_021.d
Lims ID: 720-90698-E-4-I
Client ID: DG-V9S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 18:51:13 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 001 Name: 720-0056158-021
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:26:42 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:26:42

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.472	2.548	-0.076	660	NC	
23 n-Decane	3.823	3.794	0.029	1760	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		23447	NC	
A 1 C9-C13	4.531	(2.548-6.514)		23447	NC	
A 57 C10-C12	4.752	(3.794-5.710)		8662	0.8838	
24 Dodecane	5.717	5.710	0.007	3390	NC	
A 3 C9 - C17	5.896	(2.548-9.244)		83873	6.92	
A 47 C9 - C18	6.183	(2.548-9.817)		106699	9.91	
A 60 C10-C16	6.200	(3.794-8.605)		58383	5.30	
A 25 C9-C19	6.462	(2.548-10.375)		114891	9.41	
A 15 Kerosene	6.462	(2.548-10.375)		114891	10.7	
26 C13	6.509	6.514	-0.005	3475	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	U
A 59 C12-C16	7.157	(5.710-8.605)		49721	5.07	
A 62 C10-C20	7.353	(3.794-10.912)		230689	23.5	
A 28 C9-C24	7.695	(2.548-12.842)		659295	67.3	
A 29 C9-C25	7.914	(2.548-13.279)		777967	79.4	
A 54 C10-C23	8.091	(3.794-12.389)		537636	54.9	
A 4 C10-C24	8.318	(3.794-12.842)		652369	66.6	
A 16 C10-C25	8.536	(3.794-13.279)		771041	78.7	
45 Hexadecane	8.600	8.605	-0.005	13831	NC	
A 14 C10-C26	8.747	(3.794-13.700)		838913	85.6	
A 67 C12-C22	8.813	(5.710-11.916)		450573	46.0	
A 5 Diesel	9.146	(3.794-14.499)		1104173	112.7	
A 32 C10-C28	9.146	(3.794-14.499)		1104173	112.7	
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		1104173	NC	
A 30 C13-C22	9.215	(6.514-11.916)		446189	45.5	
44 Heptadecane	9.229	9.244	-0.015	18564	NC	
A 31 C12-C24	9.276	(5.710-12.842)		643707	65.7	
49 n-Octadecane		9.817			ND	
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		1712598	NC	
A 52 Mineral oil	9.889	(2.548-17.229)		2383161	212.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		2383161	NC	
33 C19	10.381	10.375	0.006	24211	NC	
A 64 C13-C28	10.507	(6.514-14.499)		1091127	111.3	
A 17 C10-C36	10.512	(3.794-17.229)		1705672	174.0	
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		3048330	NC	
A 13 C9-C40	10.665	(2.548-18.782)		3048330	345.0	
A 58 C16-C24	10.724	(8.605-12.842)		607817	62.0	
61 icosane	10.974	10.912	0.062	28123	NC	
A 6 C10-C40	11.288	(3.794-18.782)		3039096	344.3	
$ 34 p-Terphenyl	11.897	11.908	-0.011	240900	20.2	M
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		3020932	342.6	
36 Tricosane	12.386	12.389	-0.003	55400	NC	
A 66 C13-C40	12.648	(6.514-18.782)		3011100	341.5	
37 n-Tetracosane	12.837	12.842	-0.005	114733	NC	
A 2 C16-C36 ORO	12.917	(8.605-17.229)		2277589	300.1	
38 C25	13.276	13.279	-0.003	118672	NC	
A 19 C16-C40	13.694	(8.605-18.782)		2942758	333.2	
46 n-Hexacosane	13.695	13.700	-0.005	67872	NC	
A 20 C19-C36	13.802	(10.375-17.229)		1744504	202.2	
A 55 C23-C32	14.167	(12.389-15.946)		1173450	246.8	
39 n-Octacosane	14.492	14.499	-0.007	116756	NC	
65 C29	14.873	14.878	-0.005	59414	NC	
A 40 C24-C36	15.036	(12.842-17.229)		1287269	211.3	
A 7 Motor Oil	15.036	(12.842-17.229)		1287269	211.3	
A 50 C25-C36	15.254	(13.279-17.229)		1185601	204.9	
A 10 C22-C40	15.349	(11.916-18.782)		1836914	219.7	
A 41 C23-C40	15.585	(12.389-18.782)		1958382	238.8	
A 8 C24-C40	15.812	(12.842-18.782)		1860636	233.9	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.641	(14.499-18.782)		1422625	206.1	
A 63 C29-C40	16.830	(14.878-18.782)		1309937	206.8	
42 n-Hexatriacontane		17.229			ND	
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

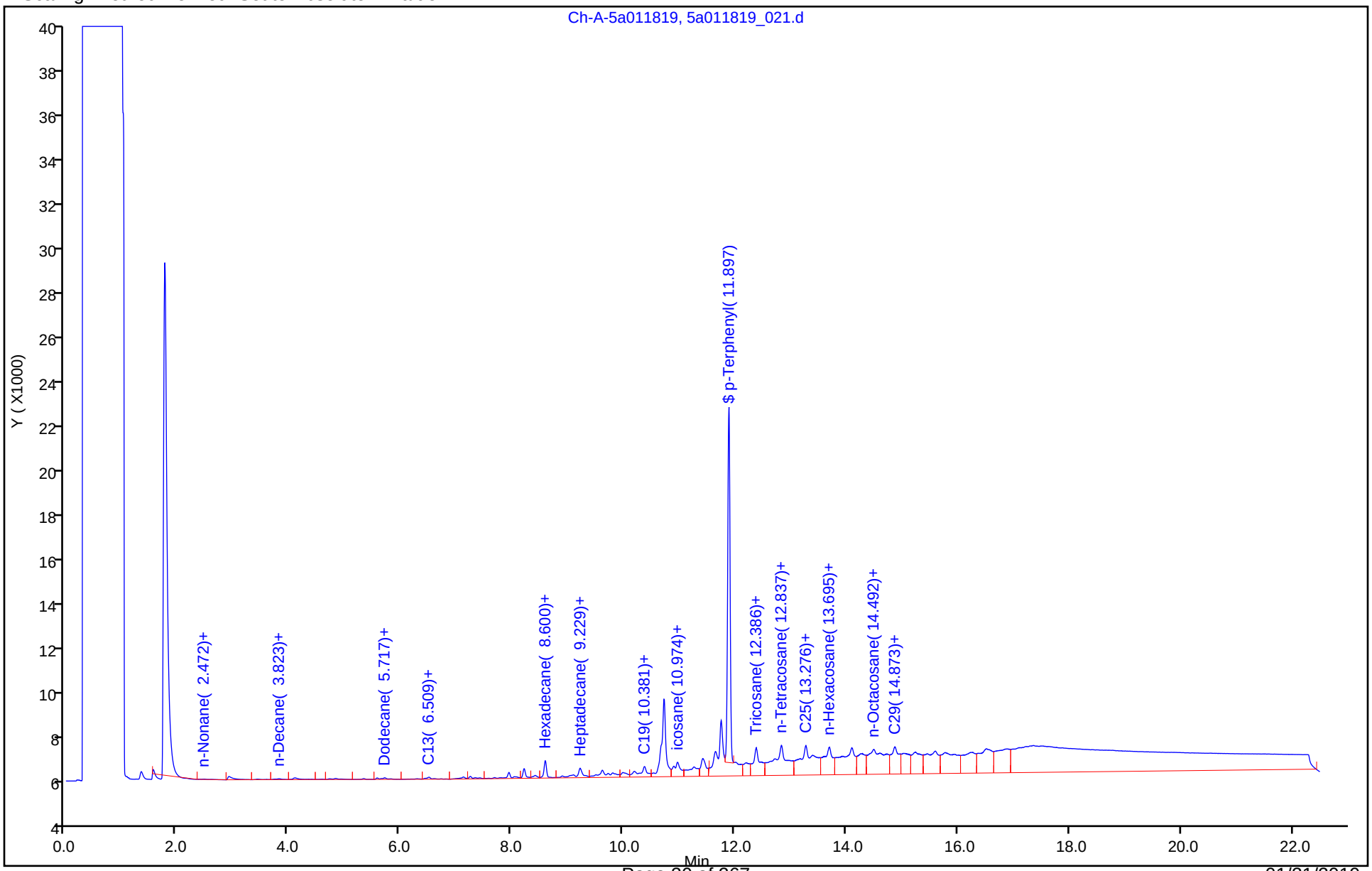
Report Date: 21-Jan-2019 12:26:42 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_021.d

Injection Date:	18-Jan-2019 18:51:13	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-4-I	Lab Sample ID:	720-90698-4	Worklist Smp#:	21
Client ID:	DG-V9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_021.d				
Lims ID:	720-90698-E-4-I				
Client ID:	DG-V9S-3.5-4				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 18:51:13	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 001 Name: 720-0056158-021				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:26:42	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 12:26:42

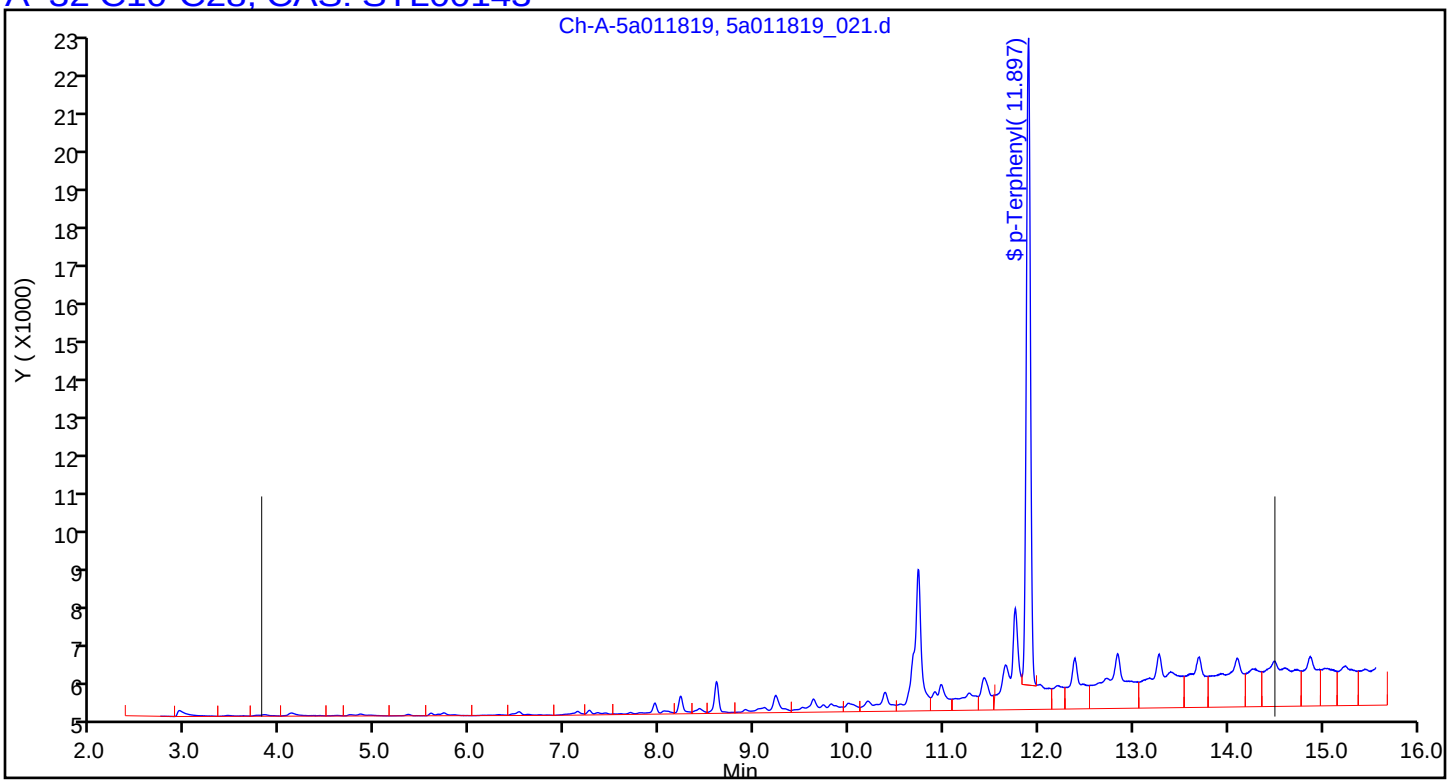
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.2	80.81

Report Date: 21-Jan-2019 12:26:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_021.d				
Injection Date:	18-Jan-2019 18:51:13	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-4-I	Lab Sample ID:	720-90698-4		
Client ID:	DG-V9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

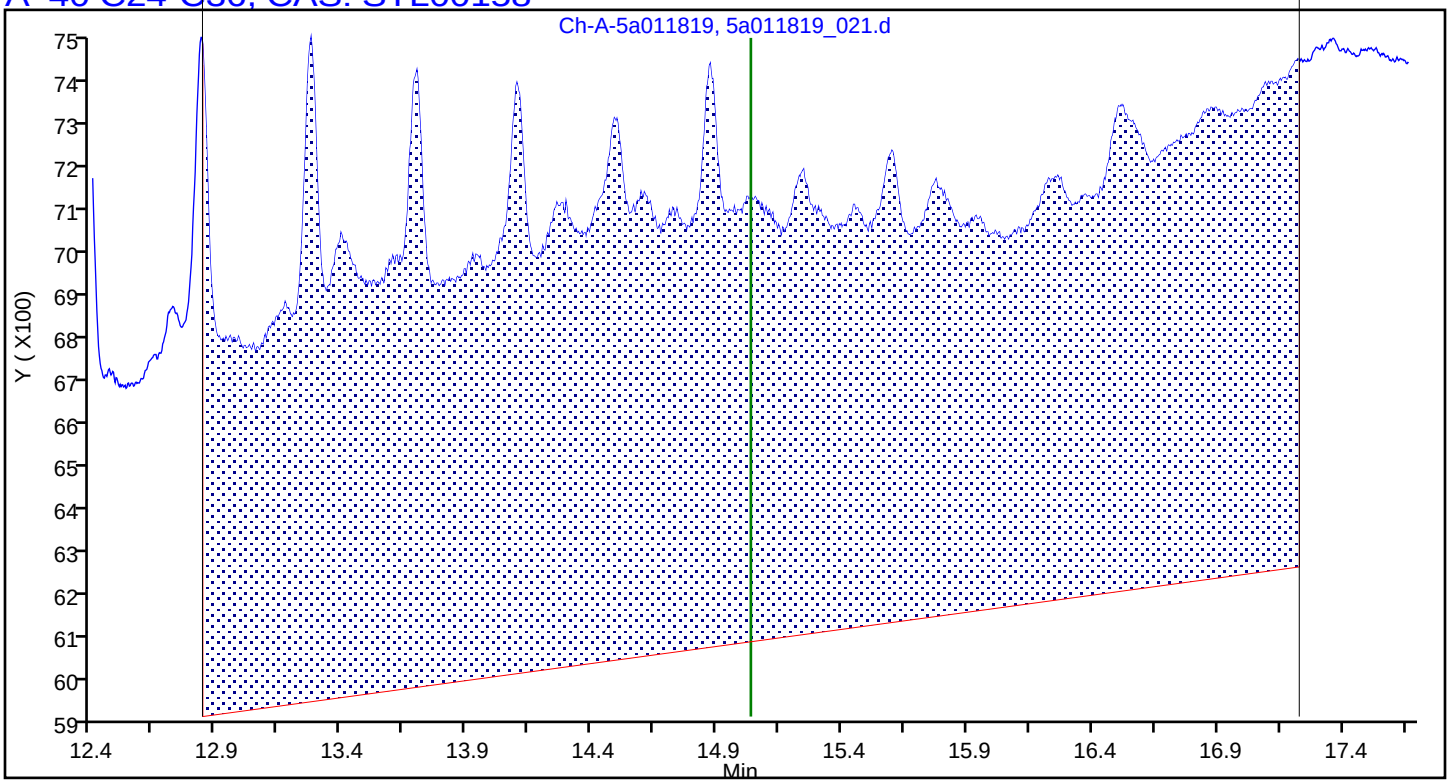


Report Date: 21-Jan-2019 12:26:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_021.d				
Injection Date:	18-Jan-2019 18:51:13	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-4-I	Lab Sample ID:	720-90698-4		
Client ID:	DG-V9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

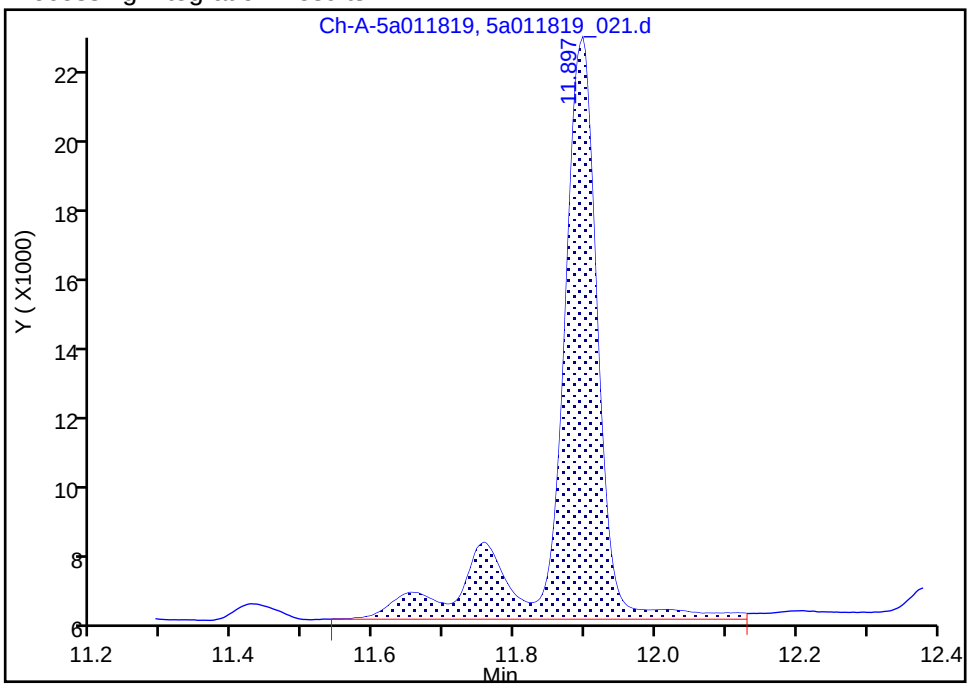
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Injection Date:	18-Jan-2019 18:51:13	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-4-I	Lab Sample ID:	720-90698-4		
Client ID:	DG-V9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

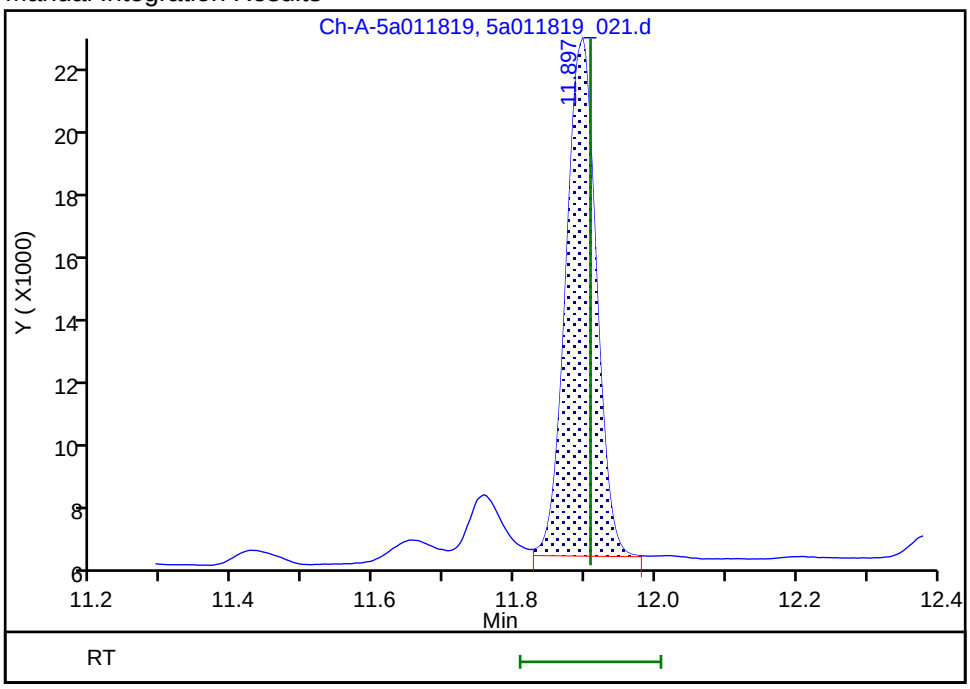
Processing Integration Results

RT: 11.90
Area: 320193
Amount: 26.850761
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 240900
Amount: 20.201404
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 12:26:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_024.d
Lims ID: 720-90698-E-5-C
Client ID: DG-V9S-7.5-8
Sample Type: Client
Inject. Date: 18-Jan-2019 20:18:57 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0056158-024
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:31:37 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:31:36

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.548			ND	
23 n-Decane	3.816	3.794	0.022	1138	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		665488	NC	
A 1 C9-C13	4.531	(2.548-6.514)		665488	NC	
A 57 C10-C12	4.752	(3.794-5.710)		9880	1.01	
24 Dodecane	5.722	5.710	0.012	889	NC	
A 3 C9 - C17	5.896	(2.548-9.244)		676526	55.8	
A 47 C9 - C18	6.183	(2.548-9.817)		680254	63.2	
A 60 C10-C16	6.200	(3.794-8.605)		20367	1.85	
A 25 C9-C19	6.462	(2.548-10.375)		690397	56.6	
A 15 Kerosene	6.462	(2.548-10.375)		690397	64.0	
26 C13	6.473	6.514	-0.041	1153	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	
A 59 C12-C16	7.157	(5.710-8.605)		10487	1.07	
A 62 C10-C20	7.353	(3.794-10.912)		53839	5.49	
A 28 C9-C24	7.695	(2.548-12.842)		740200	75.5	
A 29 C9-C25	7.914	(2.548-13.279)		751041	76.6	
A 54 C10-C23	8.091	(3.794-12.389)		76977	7.85	
A 4 C10-C24	8.318	(3.794-12.842)		86871	8.86	
A 16 C10-C25	8.536	(3.794-13.279)		97712	9.97	
45 Hexadecane	8.607	8.605	0.002	1126	NC	
A 14 C10-C26	8.747	(3.794-13.700)		141930	14.5	
A 67 C12-C22	8.813	(5.710-11.916)		63993	6.53	
A 5 Diesel	9.146	(3.794-14.499)		212917	21.7	
A 32 C10-C28	9.146	(3.794-14.499)		212917	21.7	
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		212917	NC	
A 30 C13-C22	9.215	(6.514-11.916)		62867	6.41	
44 Heptadecane	9.247	9.244	0.003	1771	NC	
A 31 C12-C24	9.276	(5.710-12.842)		76991	7.86	
49 n-Octadecane	9.852	9.817	0.035	2710	NC	
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		1455454	NC	
A 52 Mineral oil	9.889	(2.548-17.229)		1368046	122.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		1368046	NC	
33 C19	10.288	10.375	-0.087	4500	NC	
A 64 C13-C28	10.507	(6.514-14.499)		201911	20.6	
A 17 C10-C36	10.512	(3.794-17.229)		802125	81.8	
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		1970950	NC	
A 13 C9-C40	10.665	(2.548-18.782)		1970950	207.7	
A 58 C16-C24	10.724	(8.605-12.842)		66504	6.79	
61 icosane		10.912			ND	
A 6 C10-C40	11.288	(3.794-18.782)		1964588	207.4	
$ 34 p-Terphenyl	11.897	11.908	-0.011	311899	26.2	M
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		1949036	206.0	
36 Tricosane	12.385	12.389	-0.004	3104	NC	
A 66 C13-C40	12.648	(6.514-18.782)		1943171	205.4	
37 n-Tetracosane		12.842			ND	
A 2 C16-C36 ORO	12.917	(8.605-17.229)		1308962	172.5	
38 C25	13.275	13.279	-0.004	9074	NC	
A 19 C16-C40	13.694	(8.605-18.782)		1911866	201.8	
46 n-Hexacosane		13.700			ND	
A 20 C19-C36	13.802	(10.375-17.229)		867237	100.5	
A 55 C23-C32	14.167	(12.389-15.946)		647535	136.2	
39 n-Octacosane	14.412	14.499	-0.087	46589	NC	
65 C29	14.872	14.878	-0.006	52808	NC	
A 40 C24-C36	15.036	(12.842-17.229)		847551	139.1	
A 7 Motor Oil	15.036	(12.842-17.229)		847551	139.1	
A 50 C25-C36	15.254	(13.279-17.229)		838220	144.9	
A 10 C22-C40	15.349	(11.916-18.782)		1113522	133.2	
A 41 C23-C40	15.585	(12.389-18.782)		1372347	167.3	
A 8 C24-C40	15.812	(12.842-18.782)		1363779	171.4	
56 Dotriacontane	15.943	15.946	-0.003	49884	NC	
A 51 C28-C40	16.641	(14.499-18.782)		1233279	175.4	
A 63 C29-C40	16.830	(14.878-18.782)		1169654	181.6	
42 n-Hexatriacontane		17.229			ND	
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

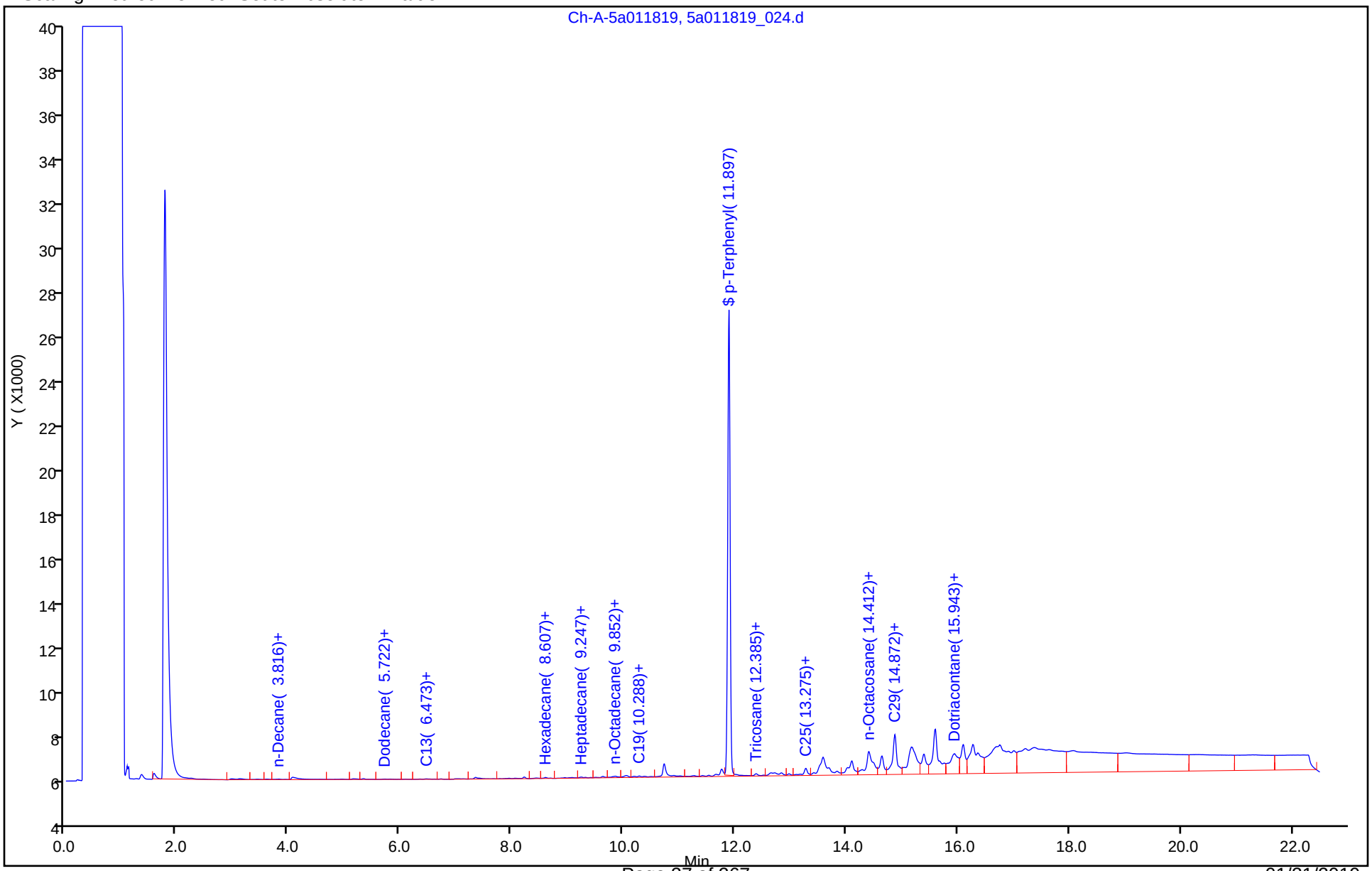
Report Date: 21-Jan-2019 12:31:38 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_024.d

Injection Date:	18-Jan-2019 20:18:57	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-5-C	Lab Sample ID:	720-90698-5	Worklist Smp#:	24
Client ID:	DG-V9S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_024.d				
Lims ID:	720-90698-E-5-C				
Client ID:	DG-V9S-7.5-8				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 20:18:57	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0056158-024				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:31:37	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 12:31:36

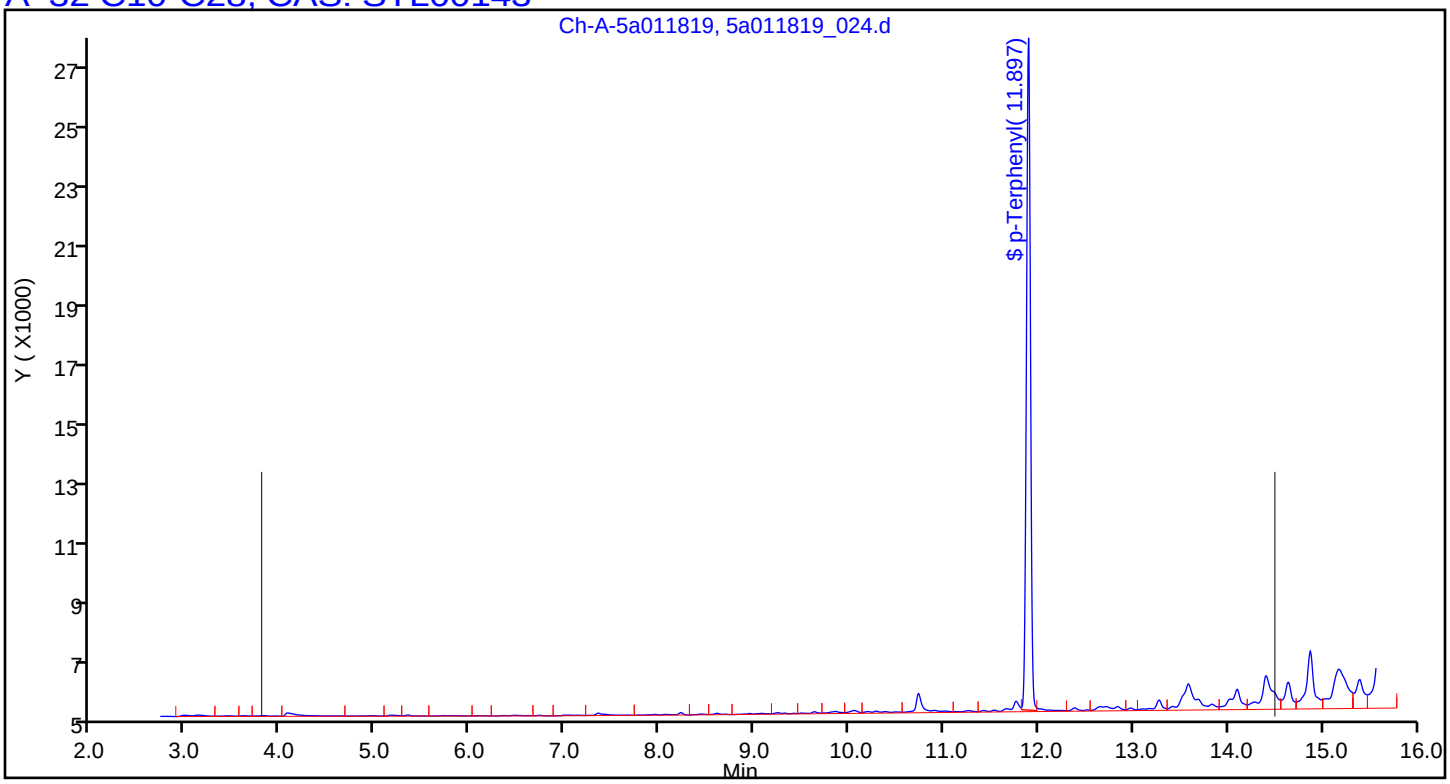
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.2	104.62

Report Date: 21-Jan-2019 12:31:39 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_024.d				
Injection Date:	18-Jan-2019 20:18:57	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-5-C	Lab Sample ID:	720-90698-5		
Client ID:	DG-V9S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

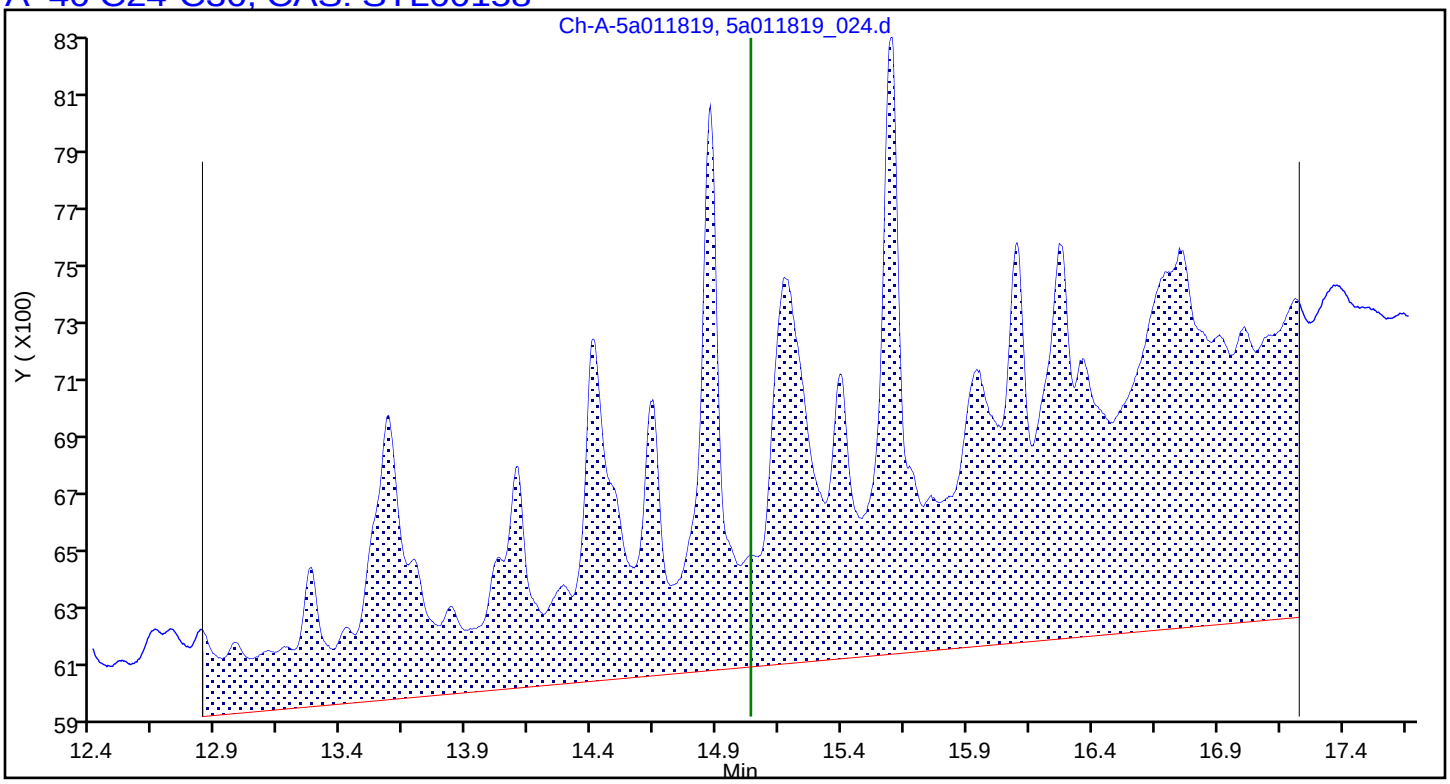


Report Date: 21-Jan-2019 12:31:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_024.d				
Injection Date:	18-Jan-2019 20:18:57	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-5-C	Lab Sample ID:	720-90698-5		
Client ID:	DG-V9S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

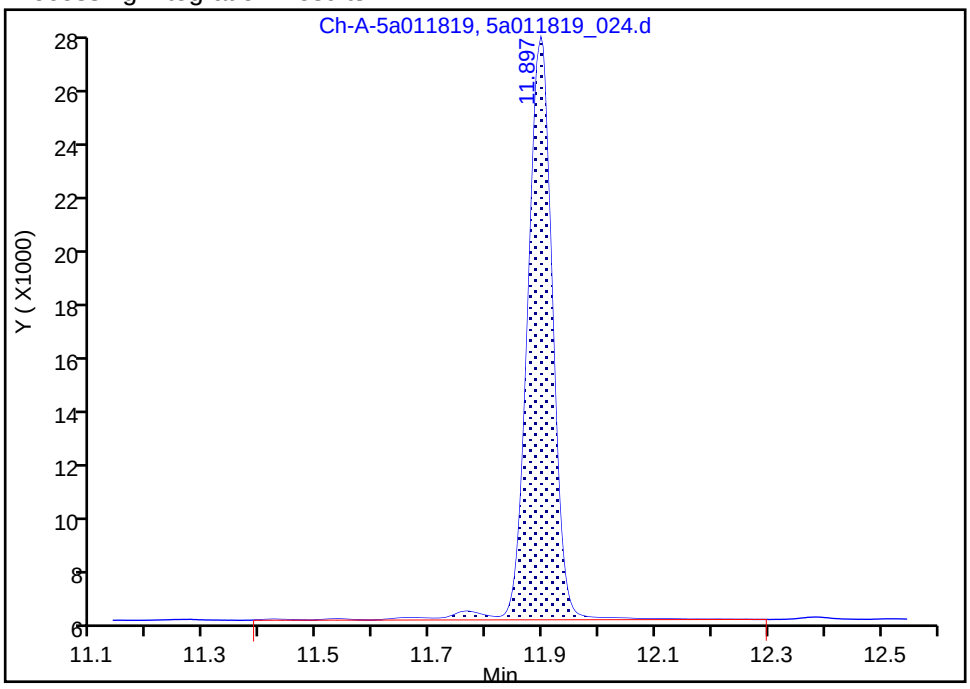
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Injection Date:	18-Jan-2019 20:18:57	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-5-C	Lab Sample ID:	720-90698-5		
Client ID:	DG-V9S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

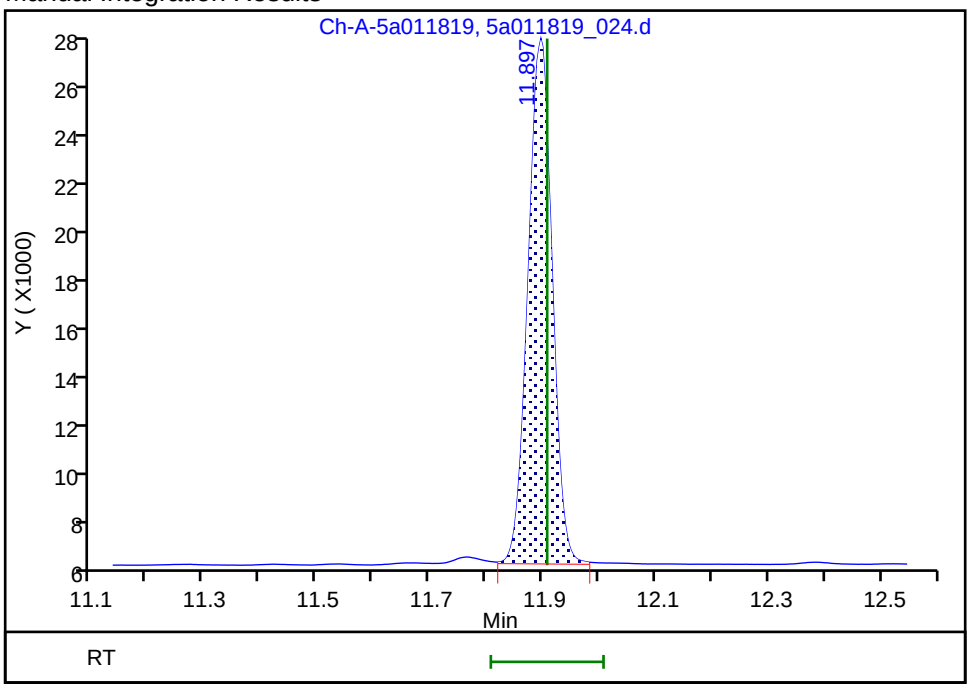
Processing Integration Results

RT: 11.90
Area: 324875
Amount: 27.243384
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 311899
Amount: 26.155242
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 12:31:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_026.d
Lims ID: 720-90698-E-6-C
Client ID: DG-T9S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 21:17:35 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0056158-026
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:33:29 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:33:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.486	2.548	-0.062	412	NC	
23 n-Decane	3.811	3.794	0.017	1949	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		20327	NC	
A 1 C9-C13	4.531	(2.548-6.514)		20327	NC	
A 57 C10-C12	4.752	(3.794-5.710)		10263	1.05	
24 Dodecane	5.697	5.710	-0.013	2920	NC	
A 3 C9 - C17	5.896	(2.548-9.244)		47389	3.91	M
A 47 C9 - C18	6.183	(2.548-9.817)		109192	10.1	M
A 60 C10-C16	6.200	(3.794-8.605)		41150	3.73	M
A 25 C9-C19	6.462	(2.548-10.375)		109192	8.95	M
A 15 Kerosene	6.462	(2.548-10.375)		109192	10.1	M
26 C13	6.495	6.514	-0.019	3825	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	U
A 59 C12-C16	7.157	(5.710-8.605)		33807	3.45	M
A 62 C10-C20	7.353	(3.794-10.912)		385785	39.4	M
A 28 C9-C24	7.695	(2.548-12.842)		1723011	175.8	M
A 29 C9-C25	7.914	(2.548-13.279)		1723011	175.8	M
A 54 C10-C23	8.091	(3.794-12.389)		1078142	110.0	M
A 4 C10-C24	8.318	(3.794-12.842)		1716772	175.2	M
A 16 C10-C25	8.536	(3.794-13.279)		1716772	175.2	M
45 Hexadecane	8.603	8.605	-0.002	4557	NC	M
A 14 C10-C26	8.747	(3.794-13.700)		2556222	260.8	M
A 67 C12-C22	8.813	(5.710-11.916)		1070799	109.3	M
A 5 Diesel	9.146	(3.794-14.499)		3370641	343.9	M
A 32 C10-C28	9.146	(3.794-14.499)		3370641	343.9	M
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		3370641	NC	M
A 30 C13-C22	9.215	(6.514-11.916)		1067879	109.0	M
44 Heptadecane	9.247	9.244	0.003	20009	NC	M
A 31 C12-C24	9.276	(5.710-12.842)		1709429	174.4	M
49 n-Octadecane	9.813	9.817	-0.004	41794	NC	M
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		6625172	NC	M
A 52 Mineral oil	9.889	(2.548-17.229)		6076269	542.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		6076269	NC	
33 C19		10.375			ND	
A 64 C13-C28	10.507	(6.514-14.499)		3360378	342.9	M
A 17 C10-C36	10.512	(3.794-17.229)		6618933	675.3	M
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		7205631	NC	
A 13 C9-C40	10.665	(2.548-18.782)		7205631	874.9	
A 58 C16-C24	10.724	(8.605-12.842)		1680179	171.4	M
61 icosane		10.912			ND	
A 6 C10-C40	11.288	(3.794-18.782)		7196506	874.1	
$ 34 p-Terphenyl	11.897	11.908	-0.011	325492	27.3	M
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		7179688	872.4	
36 Tricosane	12.407	12.389	0.018	271454	NC	M
A 66 C13-C40	12.648	(6.514-18.782)		7169141	871.2	
37 n-Tetracosane	12.837	12.842	-0.005	367176	NC	M
A 2 C16-C36 ORO	12.917	(8.605-17.229)		5985069	788.6	
38 C25	13.280	13.279	0.001	400600	NC	M
A 19 C16-C40	13.694	(8.605-18.782)		7114431	864.9	
46 n-Hexacosane		13.700			ND	
A 20 C19-C36	13.802	(10.375-17.229)		5340570	618.9	
A 55 C23-C32	14.167	(12.389-15.946)		3472974	730.3	
39 n-Octacosane	14.417	14.499	-0.082	473188	NC	M
65 C29	14.880	14.878	0.002	441927	NC	M
A 40 C24-C36	15.036	(12.842-17.229)		3938133	646.4	
A 7 Motor Oil	15.036	(12.842-17.229)		3938133	646.4	
A 50 C25-C36	15.254	(13.279-17.229)		3571498	617.3	
A 10 C22-C40	15.349	(11.916-18.782)		5374258	642.8	
A 41 C23-C40	15.585	(12.389-18.782)		5317860	648.4	
A 8 C24-C40	15.812	(12.842-18.782)		4962412	623.8	
56 Dotriacontane	15.940	15.946	-0.006	154958	NC	M
A 51 C28-C40	16.641	(14.499-18.782)		3442455	549.1	
A 63 C29-C40	16.830	(14.878-18.782)		3070678	538.7	
42 n-Hexatriacontane	17.220	17.229	-0.009	1026510	NC	M
43 C40	18.830	18.782	0.048	1525644	NC	M
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

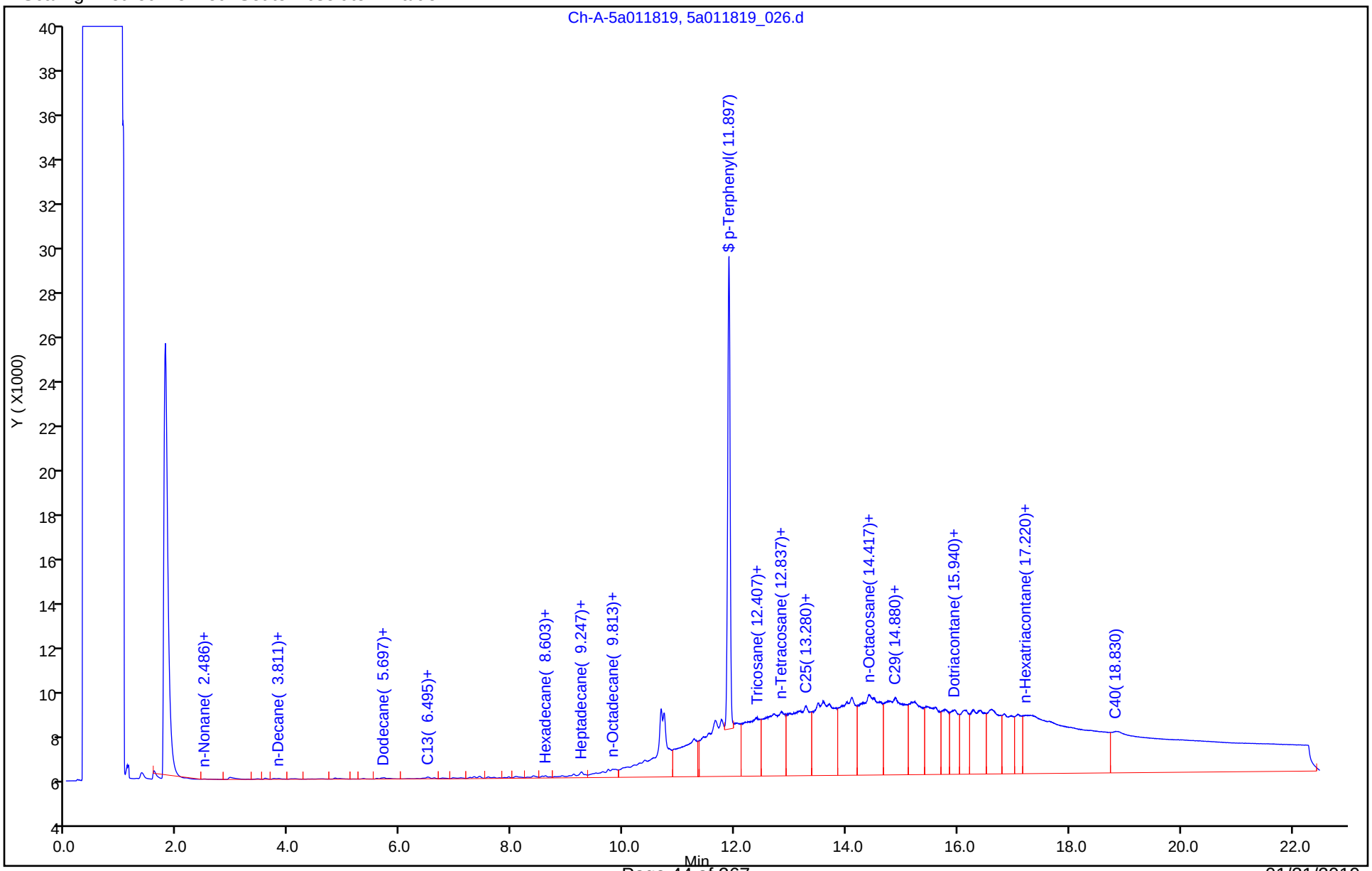
Report Date: 21-Jan-2019 12:33:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_026.d

Injection Date:	18-Jan-2019 21:17:35	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-6-C	Lab Sample ID:	720-90698-6	Worklist Smp#:	26
Client ID:	DG-T9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_026.d				
Lims ID:	720-90698-E-6-C				
Client ID:	DG-T9S-0.5-1				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 21:17:35	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0056158-026				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:33:29	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 12:33:29

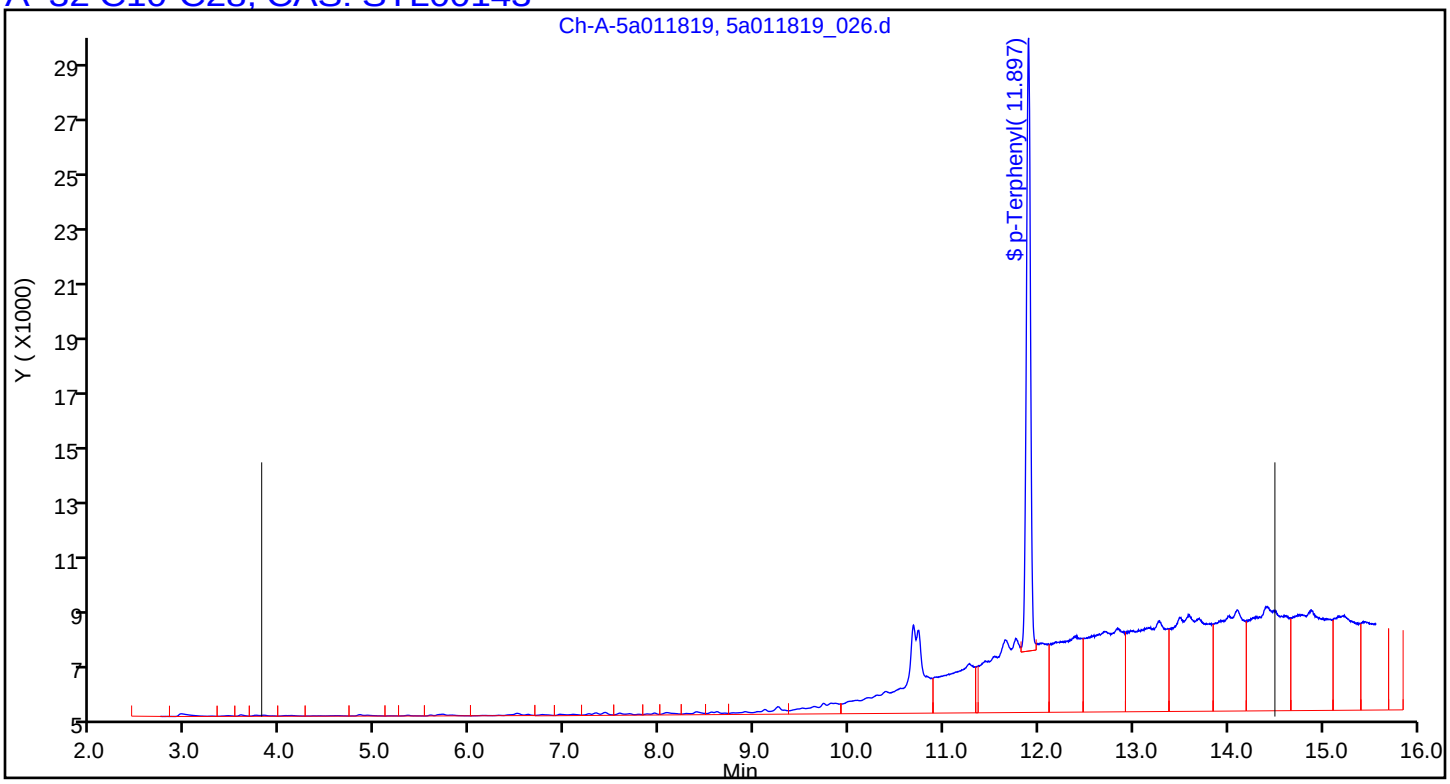
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.3	109.18

Report Date: 21-Jan-2019 12:33:32 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_026.d				
Injection Date:	18-Jan-2019 21:17:35	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-6-C	Lab Sample ID:	720-90698-6		
Client ID:	DG-T9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

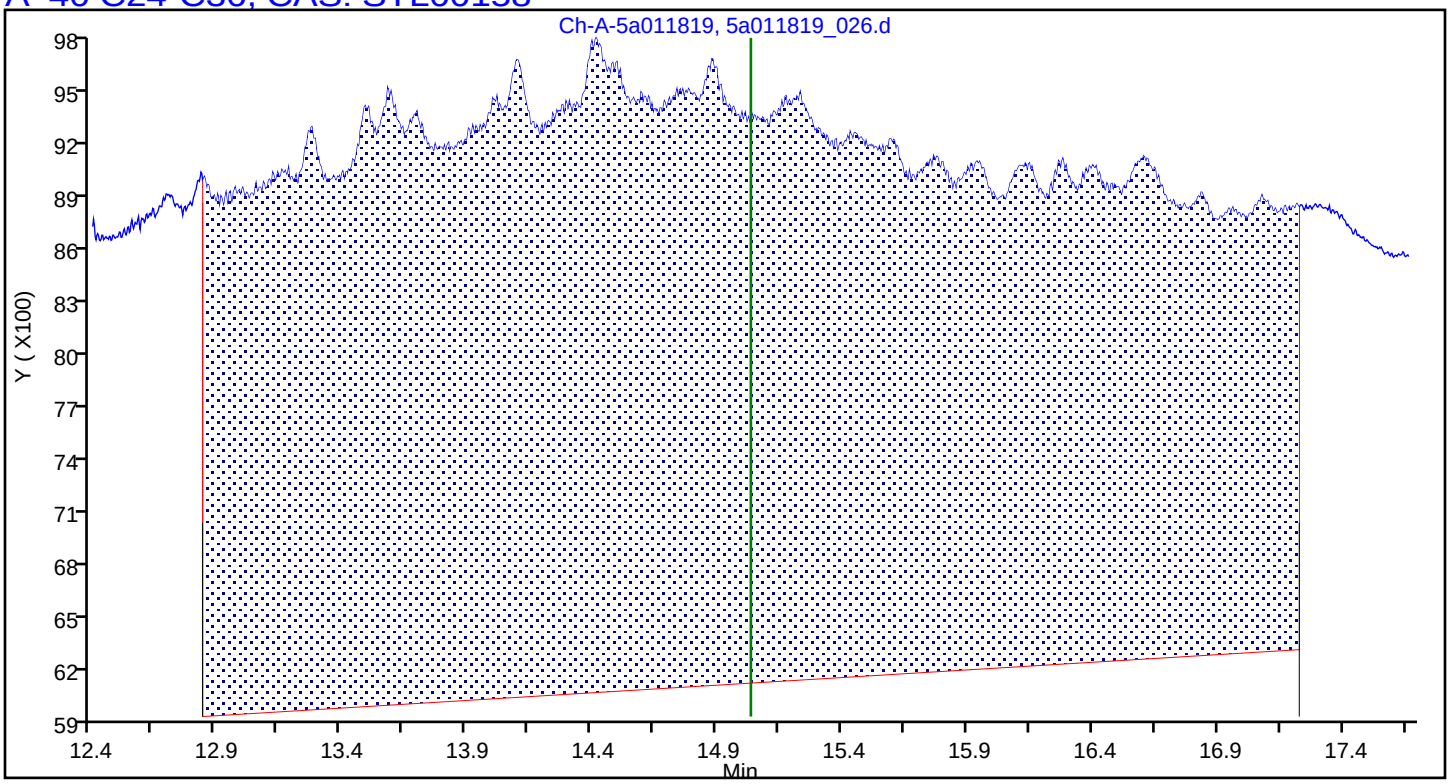


Report Date: 21-Jan-2019 12:33:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_026.d				
Injection Date:	18-Jan-2019 21:17:35	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-6-C	Lab Sample ID:	720-90698-6		
Client ID:	DG-T9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

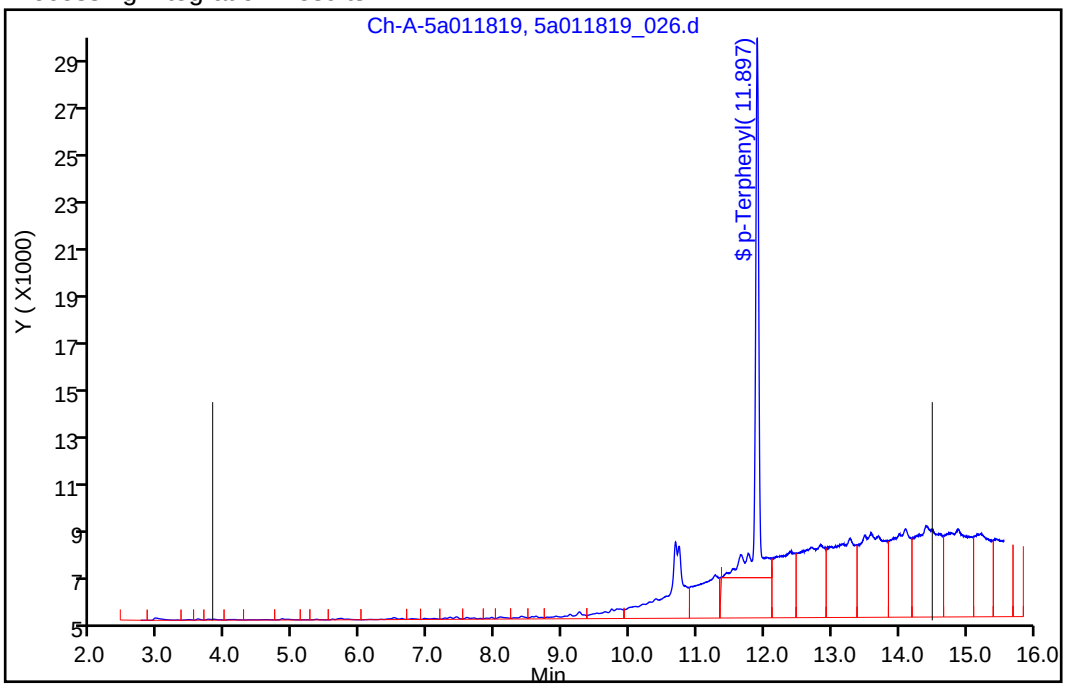
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_026.d				
Injection Date:	18-Jan-2019 21:17:35	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-6-C	Lab Sample ID:	720-90698-6		
Client ID:	DG-T9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.146, CAS: STL00143

Signal: 1

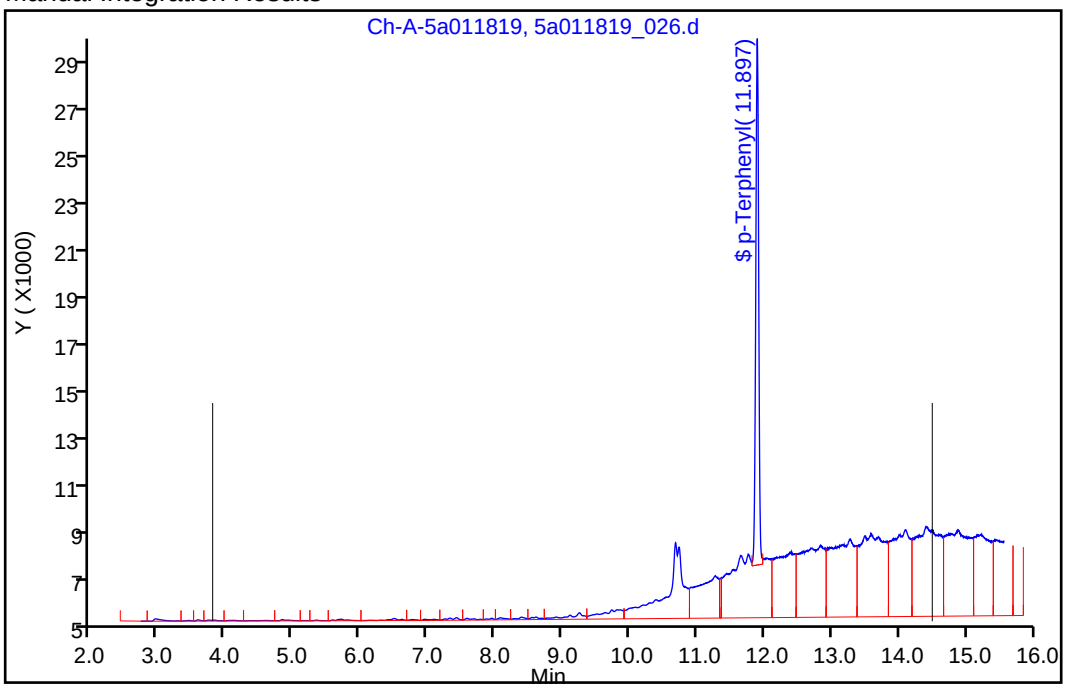
Processing Integration Results

RT: 9.15
Response: 3299224
Amount: 336.6207



Manual Integration Results

RT: 9.15
Response: 3370641
Amount: 343.9074



Reviewer: luj, 21-Jan-2019 12:33:17

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

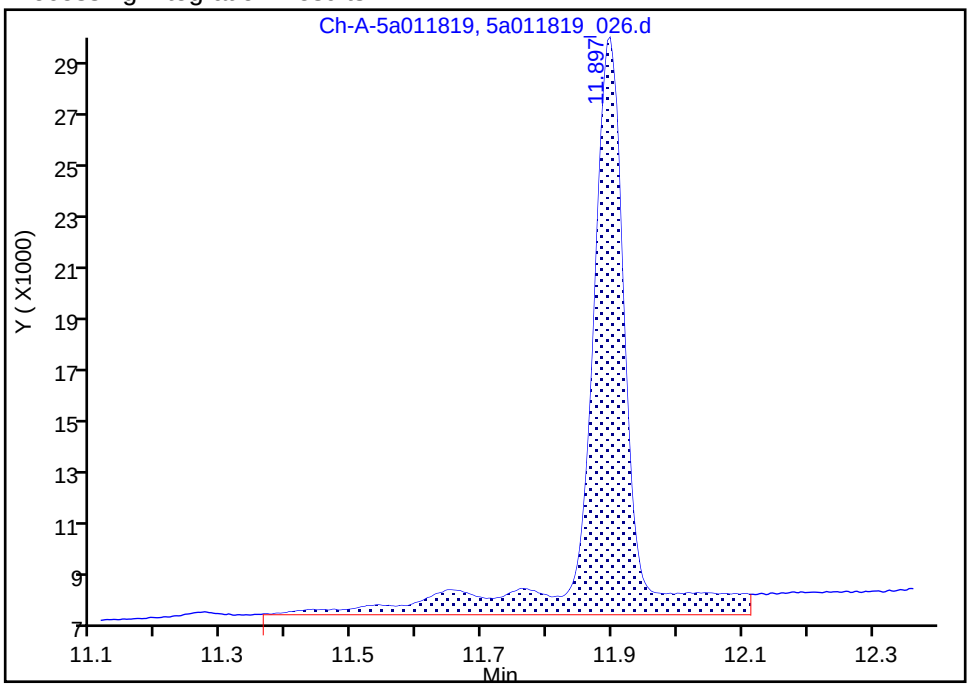
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_026.d				
Injection Date:	18-Jan-2019 21:17:35	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-6-C	Lab Sample ID:	720-90698-6		
Client ID:	DG-T9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

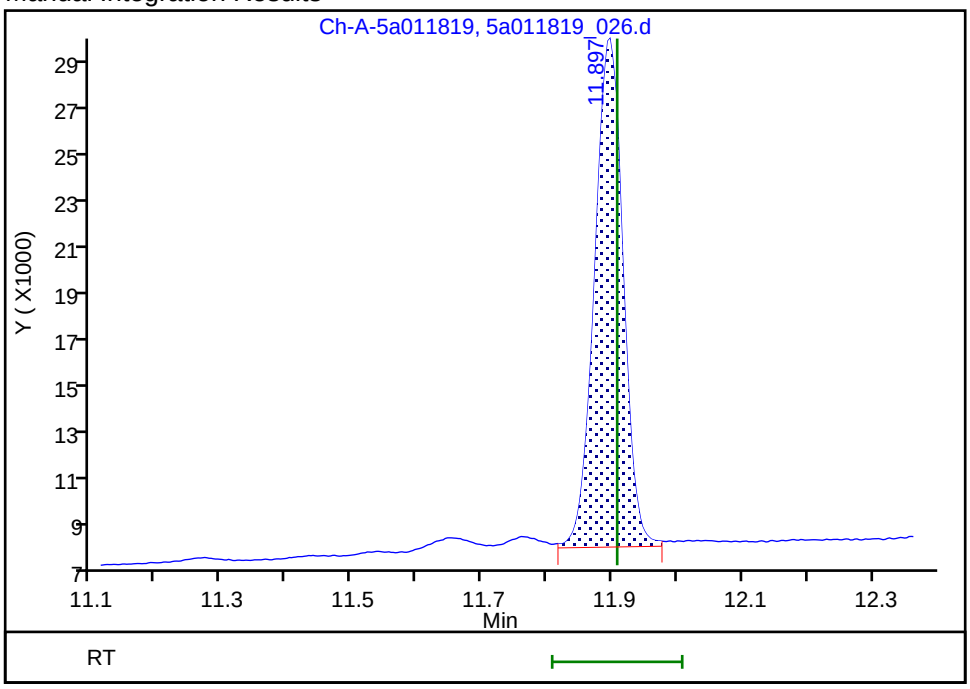
Processing Integration Results

RT: 11.90
Area: 450656
Amount: 37.791133
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 325492
Amount: 27.295124
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 12:32:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\FID2000018.D
Lims ID: 720-90698-E-7-C
Client ID: DG-T9S-3.5-4
Sample Type: Client
Inject. Date: 23-Jan-2019 00:13:49 ALS Bottle#: 68 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056218-018
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\DRO6_B.m
Limit Group: DRO
Last Update: 24-Jan-2019 10:19:15 Calib Date: 22-Jan-2019 21:25:07
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\FID2000011.D

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 24-Jan-2019 10:19:15

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.438	1.347	0.091	16699	NC	
	23 n-Decane	2.220	2.201	0.019	389083	NC	
A	21 Stoddard Solvent	2.804	(1.347-4.260)		9176415	3.85	
A	1 C9-C13	2.804	(1.347-4.260)		9176415	NC	
A	57 C10-C12	2.925	(2.201-3.649)		5824751	2.95	
	24 Dodecane	3.671	3.649	0.022	439806	NC	
A	3 C9 - C17	3.829	(1.347-6.311)		14915032	5.42	
A	60 C10-C16	4.020	(2.201-5.840)		12504341	5.11	
A	47 C9 - C18	4.051	(1.347-6.756)		15814728	6.97	
	26 C13	4.267	4.260	0.007	472195	NC	
A	25 C9-C19	4.264	(1.347-7.181)		16802650	6.06	
A	15 Kerosene	4.264	(1.347-7.181)		16802650	7.39	
$	27 n-Decanoic Acid (Surr)		4.612			ND	U
A	59 C12-C16	4.744	(3.649-5.840)		6679590	3.38	
A	61 C10-C20	4.894	(2.201-7.587)		18558400	9.38	
A	28 C9-C24	5.200	(1.347-9.053)		24631058	12.5	
A	29 C9-C25	5.366	(1.347-9.385)		26370932	13.3	
A	54 C10-C23	5.454	(2.201-8.708)		22797642	11.5	
A	4 C10-C24	5.627	(2.201-9.053)		23238313	11.8	
A	16 C10-C25	5.793	(2.201-9.385)		24978187	12.6	
	45 Hexadecane	5.845	5.840	0.005	122641	NC	
A	14 C10-C26	5.953	(2.201-9.706)		24978187	12.6	
A	67 C12-C22	5.999	(3.649-8.350)		16781581	8.49	
A	32 C10-C28	6.257	(2.201-10.314)		29083564	14.7	
A	12 Unknown Hydrocarbons	6.257	(2.201-10.314)		29083564	NC	
A	5 Diesel	6.257	(2.201-10.314)		29083564	14.7	
A	30 C13-C22	6.305	(4.260-8.350)		14822662	7.50	
	44 Heptadecane	6.313	6.311	0.002	135401	NC	
A	31 C12-C24	6.351	(3.649-9.053)		17413562	8.81	
	49 n-Octadecane	6.764	6.756	0.008	79551	NC	
A	52 Mineral oil	6.872	(1.347-12.396)		49938091	21.7	
A	11 Bunker Range Organics (C9-	6.872	(1.347-12.396)		49938091	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.872	(1.347-12.396)		49938091	NC	
33 C19	7.172	7.181	-0.009	75259	NC	
A 64 C13-C28	7.287	(4.260-10.314)		21299894	10.8	
A 17 C10-C36	7.298	(2.201-12.396)		48545346	24.5	
A 13 C9-C40	7.359	(1.347-13.371)		70442304	39.7	
A 68 Crude Oil Range Organics (	7.359	(1.347-13.371)		70442304	NC	
A 58 C16-C24	7.446	(5.840-9.053)		10733972	5.43	
62 icosane	7.588	7.587	0.001	137557	NC	
A 6 C10-C40	7.786	(2.201-13.371)		69049559	39.0	
$ 34 p-Terphenyl	8.045	8.057	-0.012	59986021	25.4	
35 n-Docosane	8.349	8.350	-0.001	319292	NC	
A 18 C12-C40	8.510	(3.649-13.371)		63224808	35.8	
36 Tricosane	8.709	8.708	0.001	190493	NC	
A 66 C13-C40	8.816	(4.260-13.371)		61265889	34.8	
37 n-Tetracosane	9.055	9.053	0.002	233764	NC	
A 2 C16-C36 ORO	9.118	(5.840-12.396)		36041005	26.6	
38 C25	9.383	9.385	-0.002	685269	NC	
A 19 C16-C40	9.605	(5.840-13.371)		56545218	32.1	
46 n-Hexacosane	9.707	9.706	0.001	973948	NC	
A 20 C19-C36	9.788	(7.181-12.396)		27691678	17.2	
A 55 C23-C32	10.063	(8.708-11.417)		15058865	17.0	
39 n-Octacosane	10.319	10.314	0.005	927619	NC	
65 C29	10.605	10.603	0.002	2014013	NC	
A 7 Motor Oil	10.724	(9.053-12.396)		43992708	38.0	
A 40 C24-C36	10.724	(9.053-12.396)		43992708	38.0	
A 10 C22-C40	10.860	(8.350-13.371)		71042569	43.9	
A 50 C25-C36	10.890	(9.385-12.396)		41685075	38.5	
A 41 C23-C40	11.039	(8.708-13.371)		73608935	46.4	
A 8 C24-C40	11.212	(9.053-13.371)		76020156	48.9	
56 Dotriacontane	11.419	11.417	0.002	1216857	NC	
A 51 C28-C40	11.842	(10.314-13.371)		71734831	57.7	
A 63 C29-C40	11.987	(10.603-13.371)		68294174	59.8	
42 n-Hexatriacontane	12.458	12.396	0.062	2102143	NC	
43 C40		13.371			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

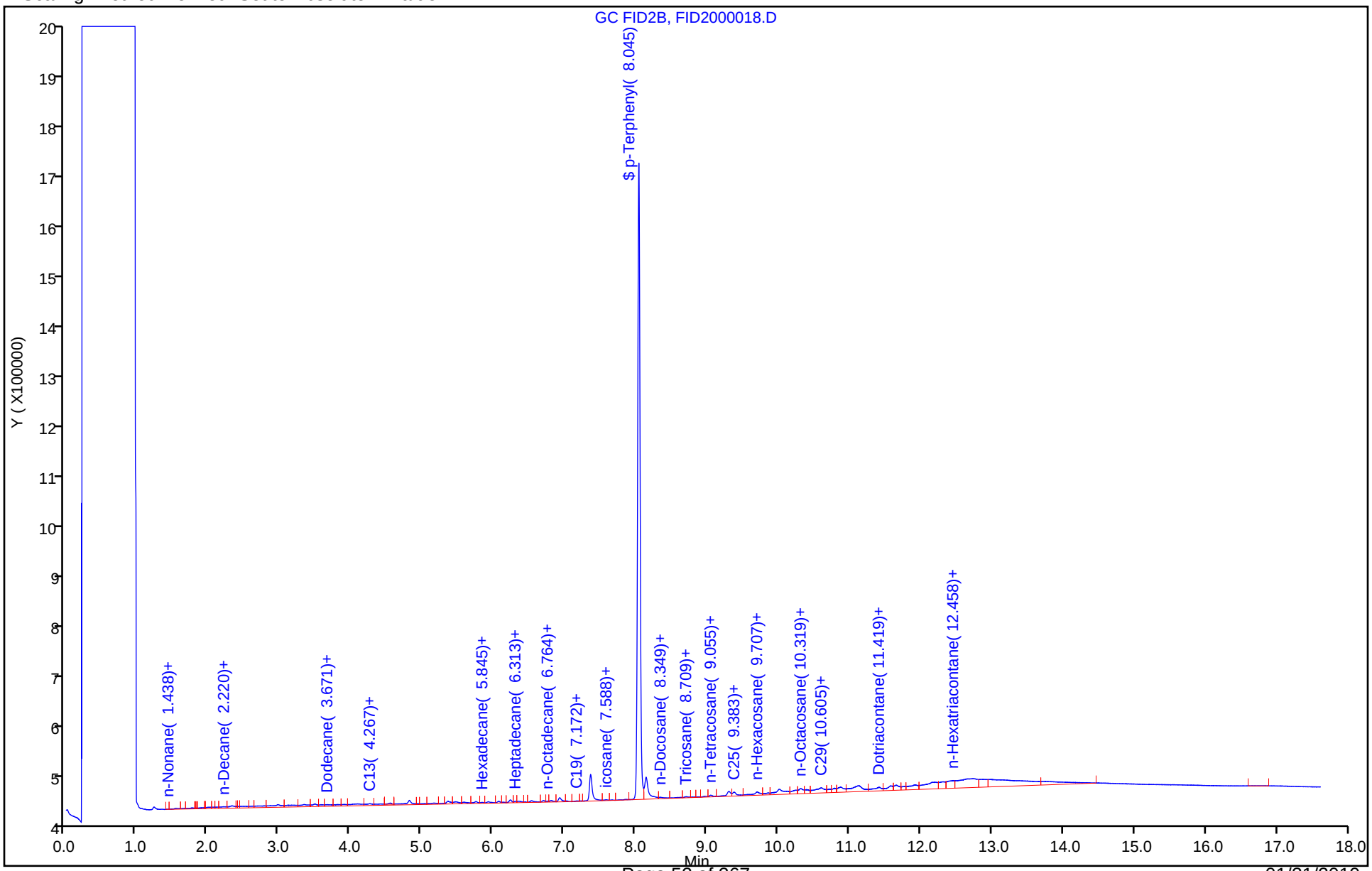
Report Date: 24-Jan-2019 10:19:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\FID2000018.D

Injection Date:	23-Jan-2019 00:13:49	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-7-C	Lab Sample ID:	720-90698-7	Worklist Smp#:	18
Client ID:	DG-T9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	68
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\FID2000018.D
Lims ID: 720-90698-E-7-C
Client ID: DG-T9S-3.5-4
Sample Type: Client
Inject. Date: 23-Jan-2019 00:13:49 ALS Bottle#: 68 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056218-018
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\DRO6_B.m
Limit Group: DRO
Last Update: 24-Jan-2019 10:19:15 Calib Date: 22-Jan-2019 21:25:07
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\FID2000011.D

Column 1 : Det: GC FID1A
Process Host: CTX0318

First Level Reviewer: hayashid Date: 24-Jan-2019 10:19:15

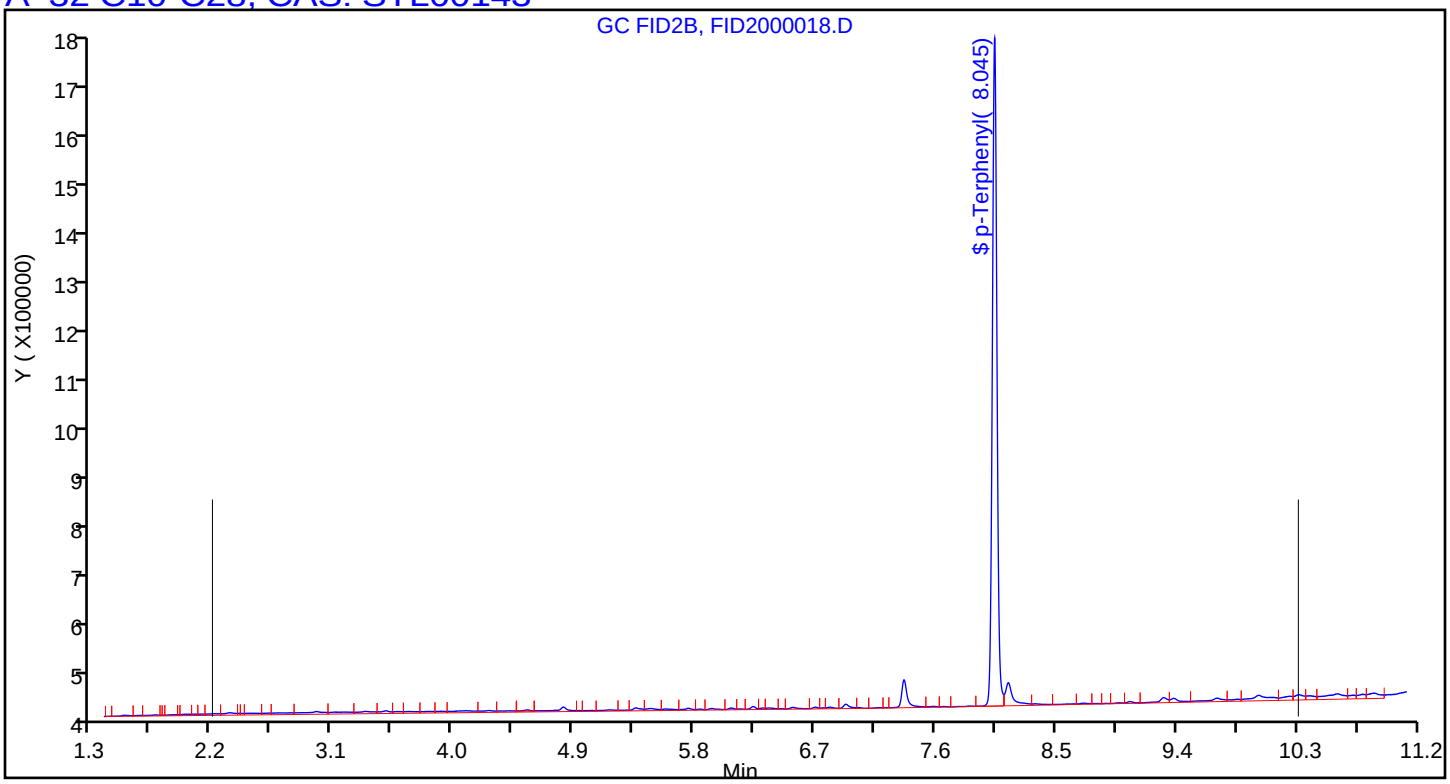
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.4	101.76

Report Date: 24-Jan-2019 10:19:17 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\FID2000018.D				
Injection Date:	23-Jan-2019 00:13:49	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-7-C	Lab Sample ID:	720-90698-7		
Client ID:	DG-T9S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	68	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

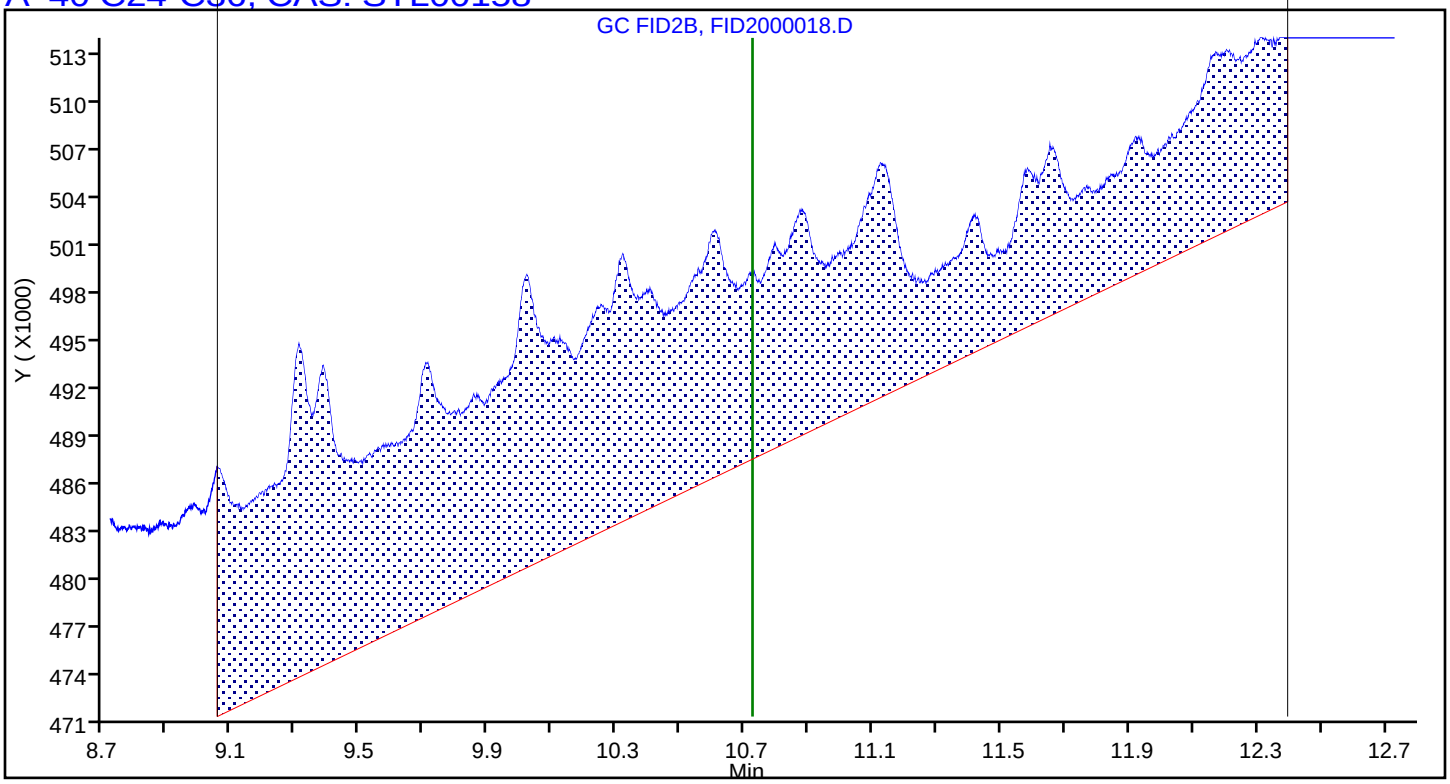


Report Date: 24-Jan-2019 10:19:18 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190122-56218.b\FID2000018.D				
Injection Date:	23-Jan-2019 00:13:49	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-7-C	Lab Sample ID:	720-90698-7		
Client ID:	DG-T9S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	68	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_012.d
Lims ID: 720-90698-E-10-C
Client ID: DG-N9S-0.5-1
Sample Type: Client
Inject. Date: 19-Jan-2019 18:10:28 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 141 Name: 720-0056178-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\DRO5B.m
Limit Group: DRO
Last Update: 21-Jan-2019 11:41:49 Calib Date: 19-Jan-2019 13:00:26
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 10:51:47

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.713	2.672	0.041	399	NC	
	23 n-Decane		3.888			ND	
A	1 C9-C13	4.625	(2.672-6.577)		24302	1.92	M
A	21 Stoddard Solvent	4.625	(2.672-6.577)		24302	2.14	M
A	57 C10-C12	4.833	(3.888-5.779)		15670	1.60	
	24 Dodecane	5.768	5.779	-0.011	304	NC	
A	3 C9 - C17	5.978	(2.672-9.283)		116318	8.24	M
A	47 C9 - C18	6.265	(2.672-9.858)		233306	20.8	M
A	60 C10-C16	6.269	(3.888-8.651)		90224	7.23	M
A	15 Kerosene	6.542	(2.672-10.411)		309603	27.5	M
A	25 C9-C19	6.542	(2.672-10.411)		309603	21.9	M
	26 C13	6.530	6.577	-0.047	3691	NC	M
$	27 n-Decanoic Acid (Surr)		7.187			ND	U
A	59 C12-C16	7.215	(5.779-8.651)		74858	7.62	M
A	62 C10-C20	7.416	(3.888-10.944)		463130	47.2	M
A	28 C9-C24	7.767	(2.672-12.862)		1536127	156.5	M
A	29 C9-C25	7.984	(2.672-13.296)		1781577	181.5	M
A	54 C10-C23	8.149	(3.888-12.411)		1206753	122.9	M
A	4 C10-C24	8.375	(3.888-12.862)		1534662	156.3	M
A	16 C10-C25	8.592	(3.888-13.296)		1780112	181.3	M
	45 Hexadecane	8.687	8.651	0.036	4985	NC	M
A	14 C10-C26	8.801	(3.888-13.715)		2159037	219.9	M
A	67 C12-C22	8.861	(5.779-11.942)		911720	92.9	M
A	5 Diesel	9.198	(3.888-14.508)		2866809	292.0	M
A	32 C10-C28	9.198	(3.888-14.508)		2866809	292.0	M
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		2866809	NC	M
A	30 C13-C22	9.260	(6.577-11.942)		907940	92.5	M
	44 Heptadecane	9.327	9.283	0.044	21494	NC	M
A	31 C12-C24	9.321	(5.779-12.862)		1519296	154.7	M
	49 n-Octadecane	9.893	9.858	0.035	8721	NC	M
A	52 Mineral oil	9.948	(2.672-17.223)		6279051	578.0	
A	9 Crude Oil Range Organics (	9.948	(2.672-17.223)		6279051	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.948	(2.672-17.223)		7170918	NC	M
33 C19	10.420	10.411	0.009	33673	NC	M
A 64 C13-C28	10.543	(6.577-14.508)		2847663	290.0	M
A 17 C10-C36	10.642	(4.060-17.223)		7168163	730.1	M
A 13 C9-C40	10.712	(2.672-18.752)		7687837	963.2	
A 68 Crude Oil Range Organics (	10.712	(2.672-18.752)		7687837	NC	
A 58 C16-C24	10.756	(8.651-12.862)		1444438	147.1	M
61 icosane		10.944			ND	
A 6 C10-C40	11.320	(3.888-18.752)		7684587	963.1	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane	12.013	11.942	0.071	61064	NC	M
A 18 C12-C40	12.266	(5.779-18.752)		7663258	960.7	
36 Tricosane	12.443	12.411	0.032	75728	NC	M
A 66 C13-C40	12.665	(6.577-18.752)		7445383	935.8	
37 n-Tetracosane	12.850	12.862	-0.012	107342	NC	M
A 2 C16-C36 ORO	12.937	(8.651-17.223)		5104135	715.5	
38 C25	13.320	13.296	0.024	155098	NC	M
A 19 C16-C40	13.702	(8.651-18.752)		7547267	947.6	
46 n-Hexacosane	13.673	13.715	-0.042	153021	NC	M
A 20 C19-C36	13.817	(10.411-17.223)		4300027	551.5	
A 55 C23-C32	14.179	(12.411-15.946)		3147388	766.2	
39 n-Octacosane	14.547	14.508	0.039	135932	NC	M
65 C29	14.870	14.886	-0.016	138264	NC	M
A 40 C24-C36	15.043	(12.862-17.223)		4213973	738.2	
A 7 Motor Oil	15.043	(12.862-17.223)		4213973	738.2	
A 50 C25-C36	15.260	(13.296-17.223)		3904847	725.6	
A 10 C22-C40	15.347	(11.942-18.752)		5964668	752.9	
A 41 C23-C40	15.582	(12.411-18.752)		5736016	741.9	
A 8 C24-C40	15.807	(12.862-18.752)		5490108	736.0	
56 Dotriacontane	15.913	15.946	-0.033	167342	NC	M
A 51 C28-C40	16.630	(14.508-18.752)		4194208	836.5	
A 63 C29-C40	16.819	(14.886-18.752)		3746917	839.0	
42 n-Hexatriacontane	17.100	17.223	-0.123	1683678	NC	M
43 C40		18.752			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

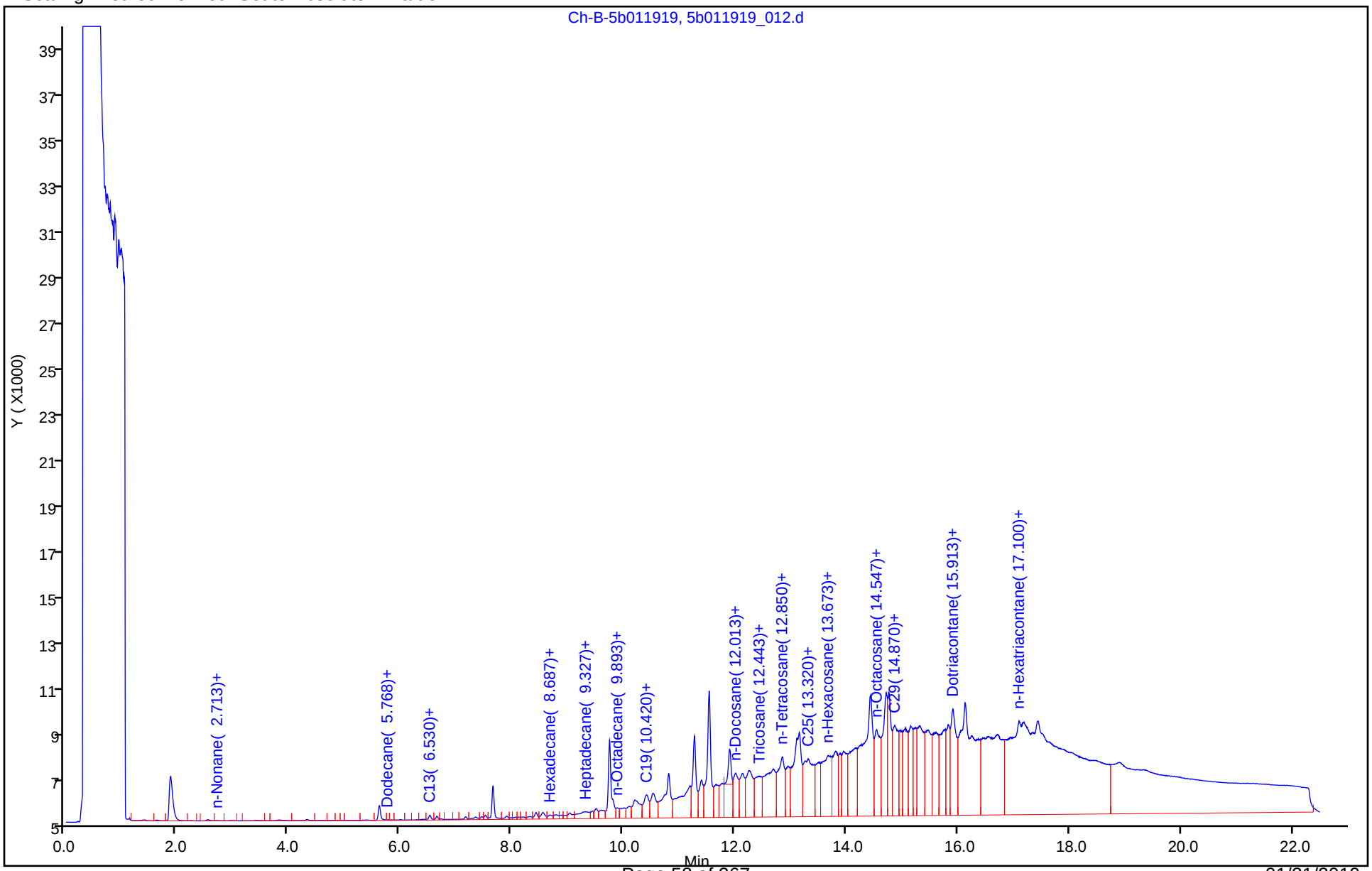
Report Date: 21-Jan-2019 11:41:50 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_012.d

Injection Date:	19-Jan-2019 18:10:28	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-10-C	Lab Sample ID:	720-90698-10	Worklist Smp#:	12
Client ID:	DG-N9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

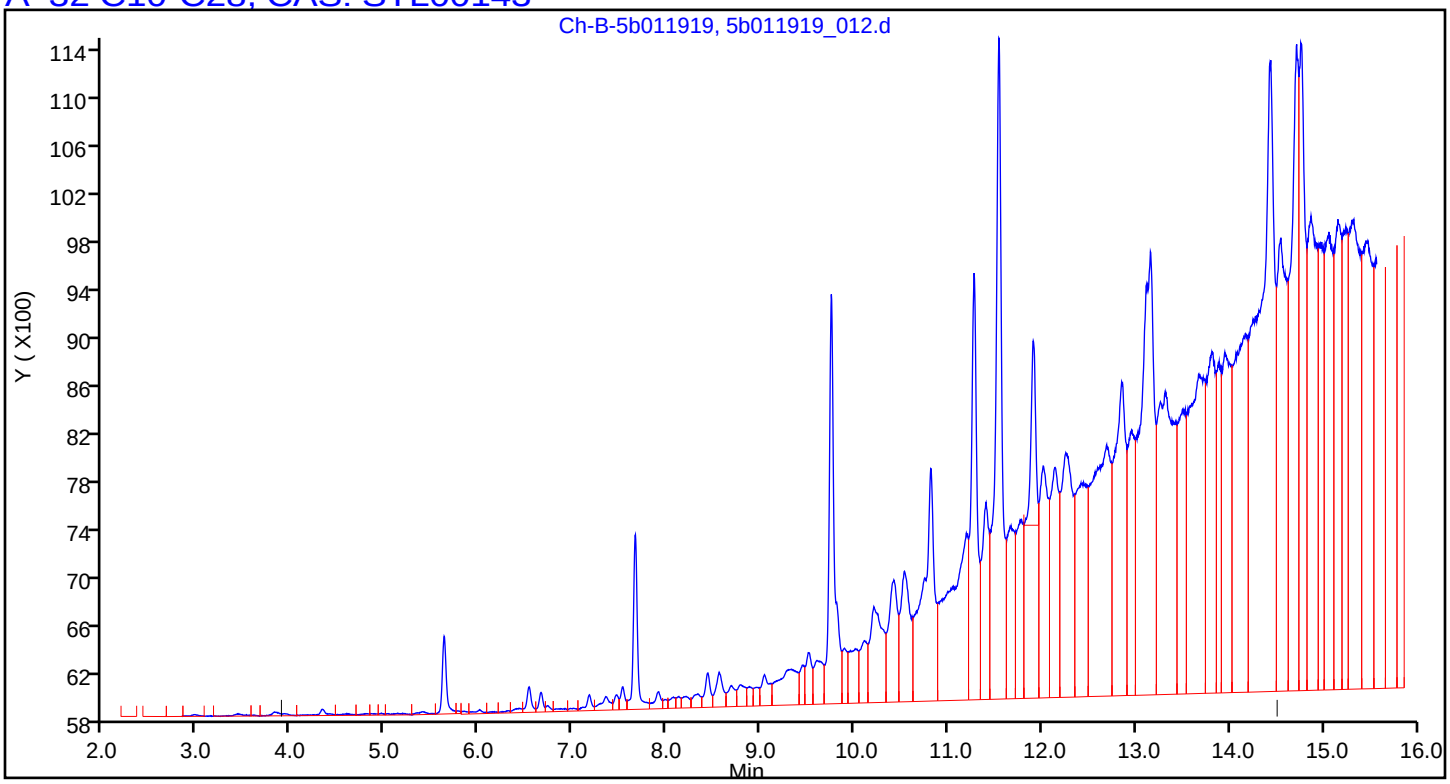


Report Date: 21-Jan-2019 11:41:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_012.d				
Injection Date:	19-Jan-2019 18:10:28	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-10-C	Lab Sample ID:	720-90698-10		
Client ID:	DG-N9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

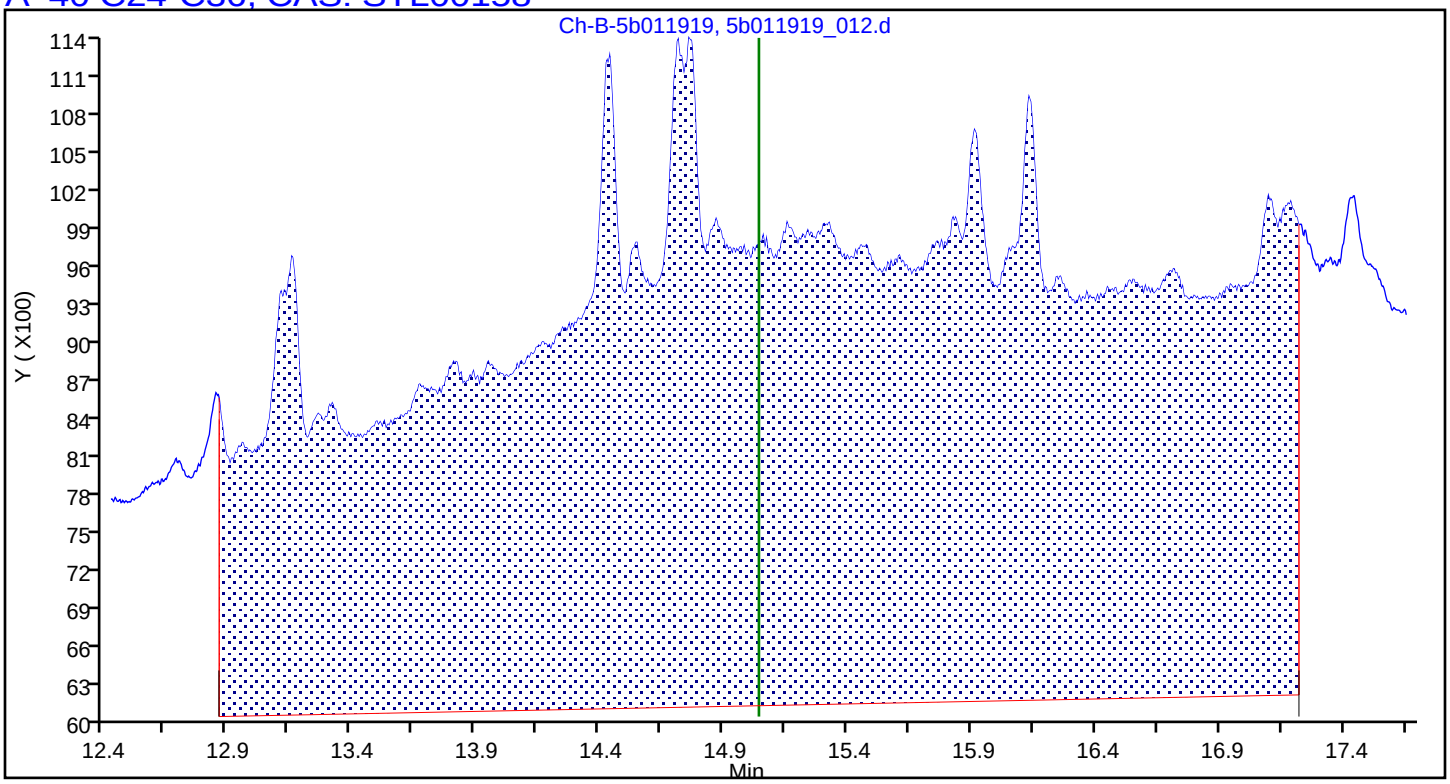


Report Date: 21-Jan-2019 11:41:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_012.d				
Injection Date:	19-Jan-2019 18:10:28	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-10-C	Lab Sample ID:	720-90698-10		
Client ID:	DG-N9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

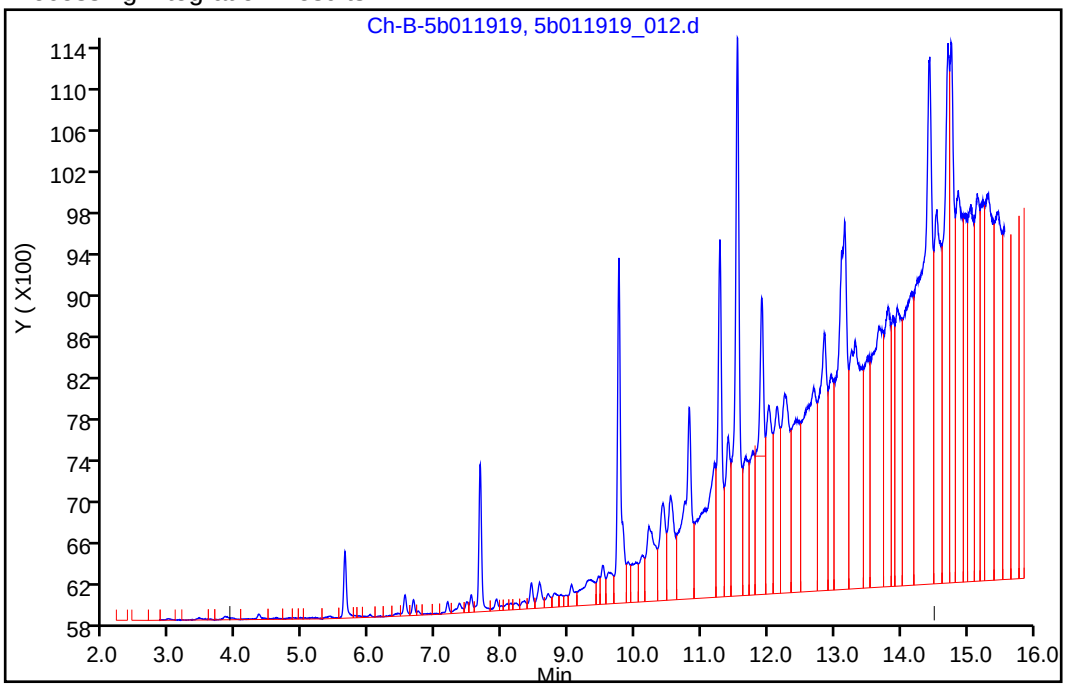
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_012.d				
Injection Date:	19-Jan-2019 18:10:28	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-10-C	Lab Sample ID:	720-90698-10		
Client ID:	DG-N9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.198, CAS: STL00143

Signal: 1

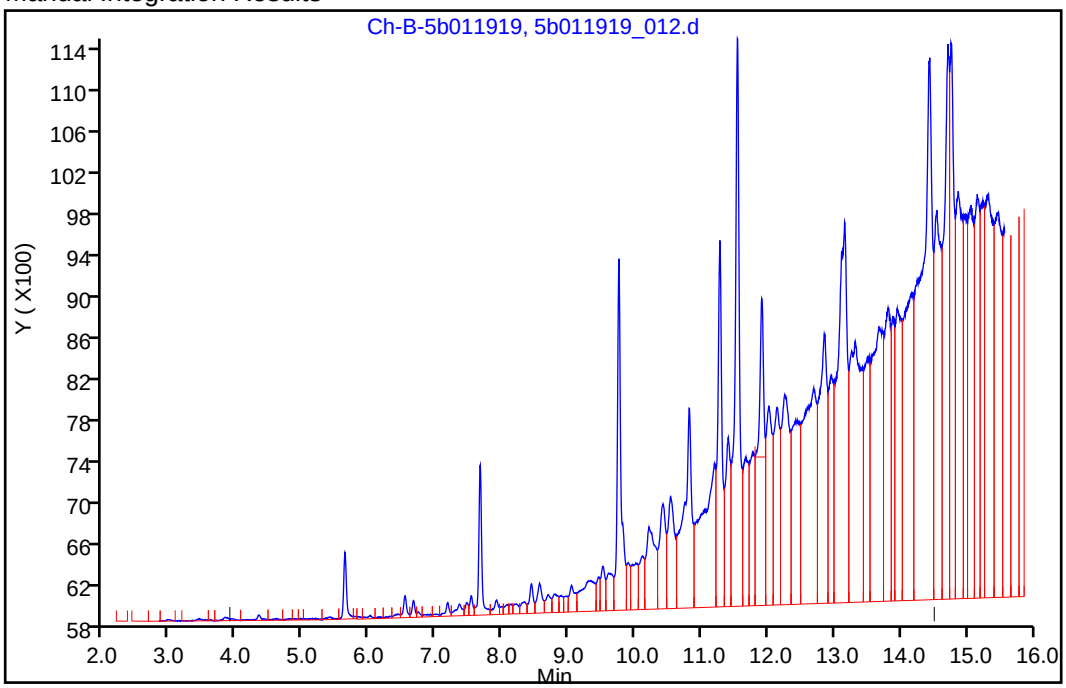
Processing Integration Results

RT: 9.20
Response: 2611671
Amount: 266.0026



Manual Integration Results

RT: 9.20
Response: 2866809
Amount: 291.9888



Reviewer: luj, 21-Jan-2019 11:41:41

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

User Disabled Compound Report

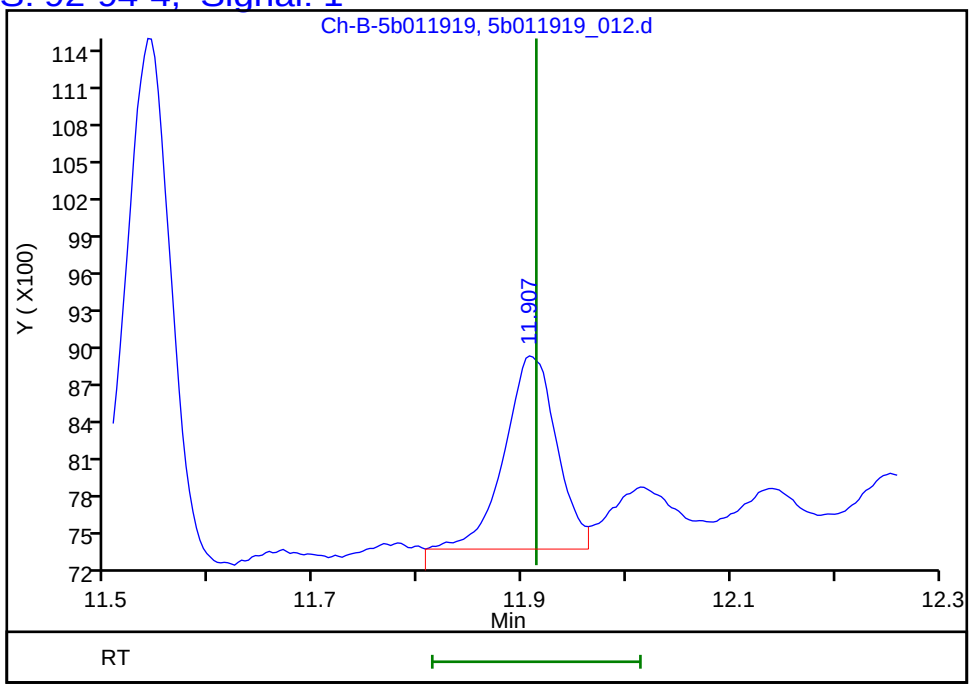
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190119-56178.b\5b011919_012.d

Injection Date:	19-Jan-2019 18:10:28	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-10-C	Lab Sample ID:	720-90698-10		
Client ID:	DG-N9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 26527
Amount: 2.104839



Reviewer: luj, 21-Jan-2019 10:51:47
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_027.d
Lims ID: 720-90698-E-11-C
Client ID: DG-N9S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 21:46:45 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0056158-027
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:34:33 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:34:33

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.476	2.548	-0.072	356	NC	
23 n-Decane	3.809	3.794	0.015	1647	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		23641	NC	
A 1 C9-C13	4.531	(2.548-6.514)		23641	NC	
A 57 C10-C12	4.752	(3.794-5.710)		13683	1.40	
24 Dodecane		5.710			ND	
A 3 C9 - C17	5.896	(2.548-9.244)		98950	8.16	M
A 47 C9 - C18	6.183	(2.548-9.817)		136847	12.7	M
A 60 C10-C16	6.200	(3.794-8.605)		78080	7.08	M
A 25 C9-C19	6.462	(2.548-10.375)		152737	12.5	M
A 15 Kerosene	6.462	(2.548-10.375)		152737	14.2	M
26 C13	6.492	6.514	-0.022	2802	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	U
A 59 C12-C16	7.157	(5.710-8.605)		70562	7.20	M
A 62 C10-C20	7.353	(3.794-10.912)		216286	22.1	M
A 28 C9-C24	7.695	(2.548-12.842)		489329	49.9	M
A 29 C9-C25	7.914	(2.548-13.279)		725772	74.1	M
A 54 C10-C23	8.091	(3.794-12.389)		483514	49.3	M
A 4 C10-C24	8.318	(3.794-12.842)		483514	49.3	M
A 16 C10-C25	8.536	(3.794-13.279)		719957	73.5	M
45 Hexadecane	8.603	8.605	-0.002	7255	NC	M
A 14 C10-C26	8.747	(3.794-13.700)		846677	86.4	M
A 67 C12-C22	8.813	(5.710-11.916)		418079	42.7	M
A 5 Diesel	9.146	(3.794-14.499)		1159712	118.3	M
A 32 C10-C28	9.146	(3.794-14.499)		1159712	118.3	M
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		1159712	NC	M
A 30 C13-C22	9.215	(6.514-11.916)		410573	41.9	M
44 Heptadecane	9.243	9.244	-0.001	6198	NC	M
A 31 C12-C24	9.276	(5.710-12.842)		475996	48.6	M
49 n-Octadecane	9.727	9.817	-0.090	23532	NC	M
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		2166010	NC	M
A 52 Mineral oil	9.889	(2.548-17.229)		2812670	251.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		2812670	NC	
33 C19	10.393	10.375	0.018	14282	NC	M
A 64 C13-C28	10.507	(6.514-14.499)		1144688	116.8	M
A 17 C10-C36	10.512	(3.794-17.229)		2160195	220.4	M
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		3691193	NC	
A 13 C9-C40	10.665	(2.548-18.782)		3691193	427.0	
A 58 C16-C24	10.724	(8.605-12.842)		412689	42.1	M
61 icosane	10.987	10.912	0.075	12903	NC	M
A 6 C10-C40	11.288	(3.794-18.782)		3683300	426.4	
$ 34 p-Terphenyl	11.897	11.908	-0.011	312366	26.2	M
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		3665885	424.7	
36 Tricosane	12.383	12.389	-0.006	29664	NC	M
A 66 C13-C40	12.648	(6.514-18.782)		3656306	423.7	
37 n-Tetracosane	12.847	12.842	0.005	98416	NC	M
A 2 C16-C36 ORO	12.917	(8.605-17.229)		2693476	354.9	
38 C25		13.279			ND	
A 19 C16-C40	13.694	(8.605-18.782)		3571999	413.4	
46 n-Hexacosane	13.693	13.700	-0.007	126720	NC	M
A 20 C19-C36	13.802	(10.375-17.229)		2137338	247.7	
A 55 C23-C32	14.167	(12.389-15.946)		1507148	316.9	
39 n-Octacosane	14.447	14.499	-0.052	201457	NC	M
65 C29		14.878			ND	
A 40 C24-C36	15.036	(12.842-17.229)		1789805	293.8	
A 7 Motor Oil	15.036	(12.842-17.229)		1789805	293.8	
A 50 C25-C36	15.254	(13.279-17.229)		1675376	289.6	
A 10 C22-C40	15.349	(11.916-18.782)		2478596	296.5	
A 41 C23-C40	15.585	(12.389-18.782)		2658167	324.1	
A 8 C24-C40	15.812	(12.842-18.782)		2570468	323.1	
56 Dotriacontane	15.953	15.946	0.007	92573	NC	M
A 51 C28-C40	16.641	(14.499-18.782)		2055034	310.3	
A 63 C29-C40	16.830	(14.878-18.782)		1871671	309.4	
42 n-Hexatriacontane	17.237	17.229	0.008	318158	NC	M
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

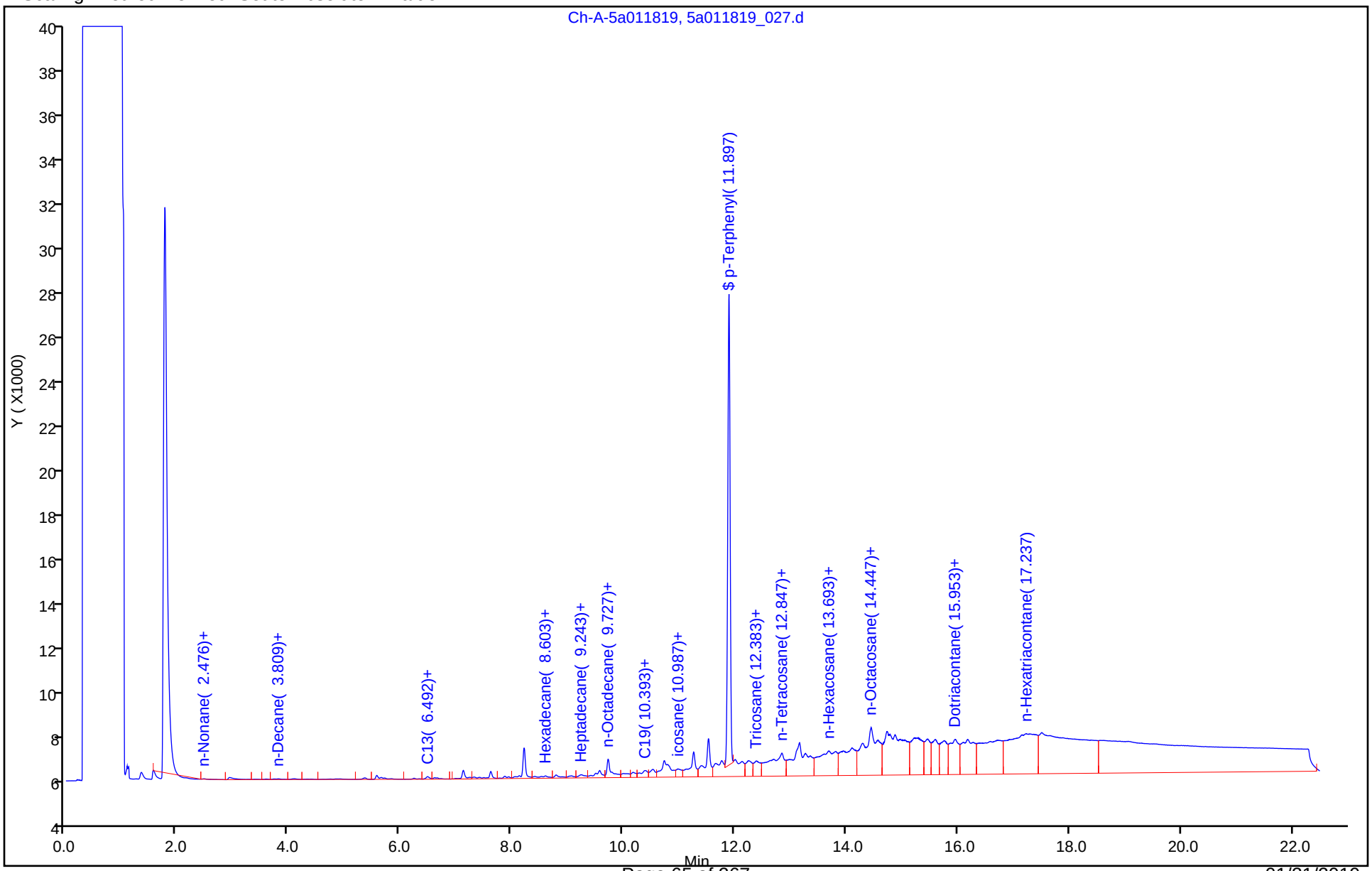
Report Date: 21-Jan-2019 12:34:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_027.d

Injection Date:	18-Jan-2019 21:46:45	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-11-C	Lab Sample ID:	720-90698-11	Worklist Smp#:	27
Client ID:	DG-N9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_027.d				
Lims ID:	720-90698-E-11-C				
Client ID:	DG-N9S-3.5-4				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 21:46:45	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0056158-027				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:34:33	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 12:34:33

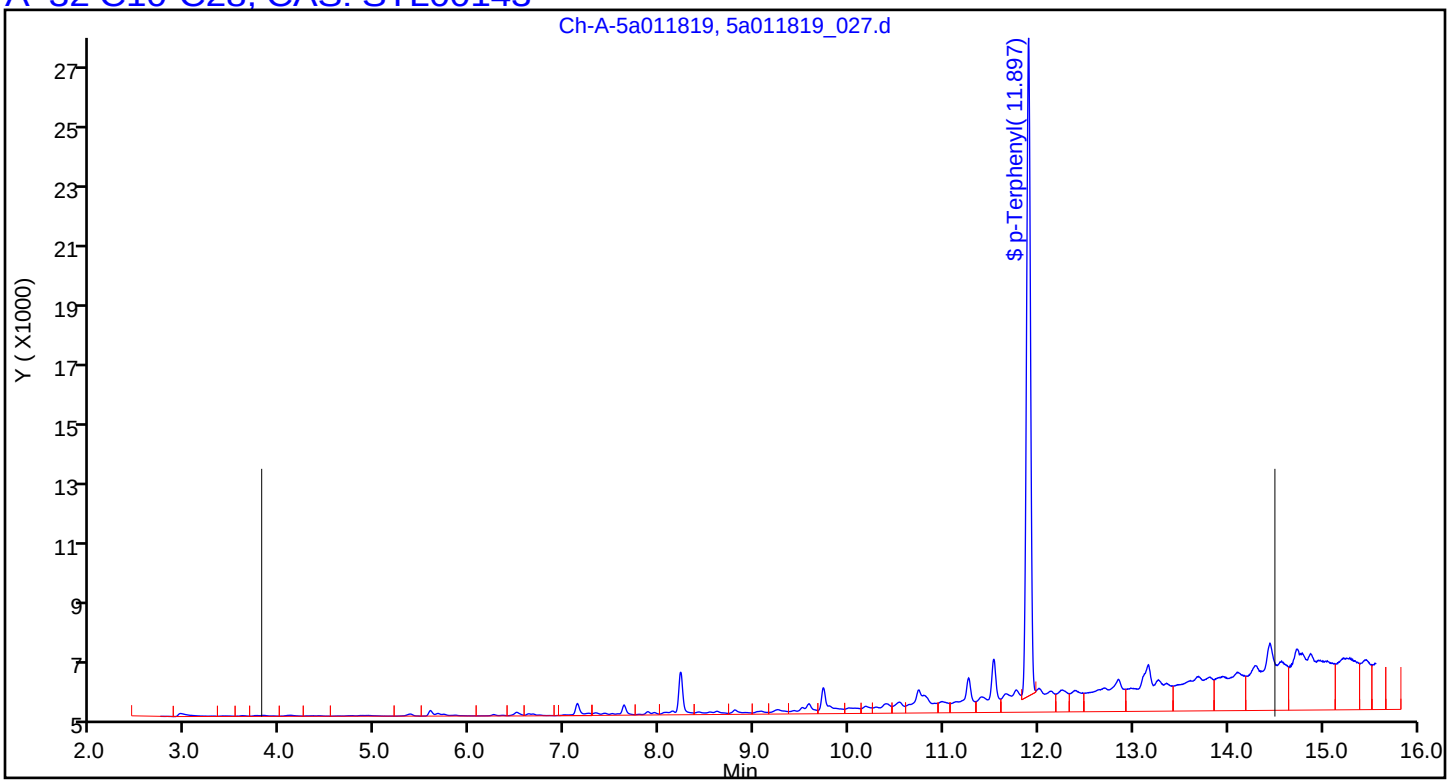
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.2	104.78

Report Date: 21-Jan-2019 12:34:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_027.d				
Injection Date:	18-Jan-2019 21:46:45	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-11-C	Lab Sample ID:	720-90698-11		
Client ID:	DG-N9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

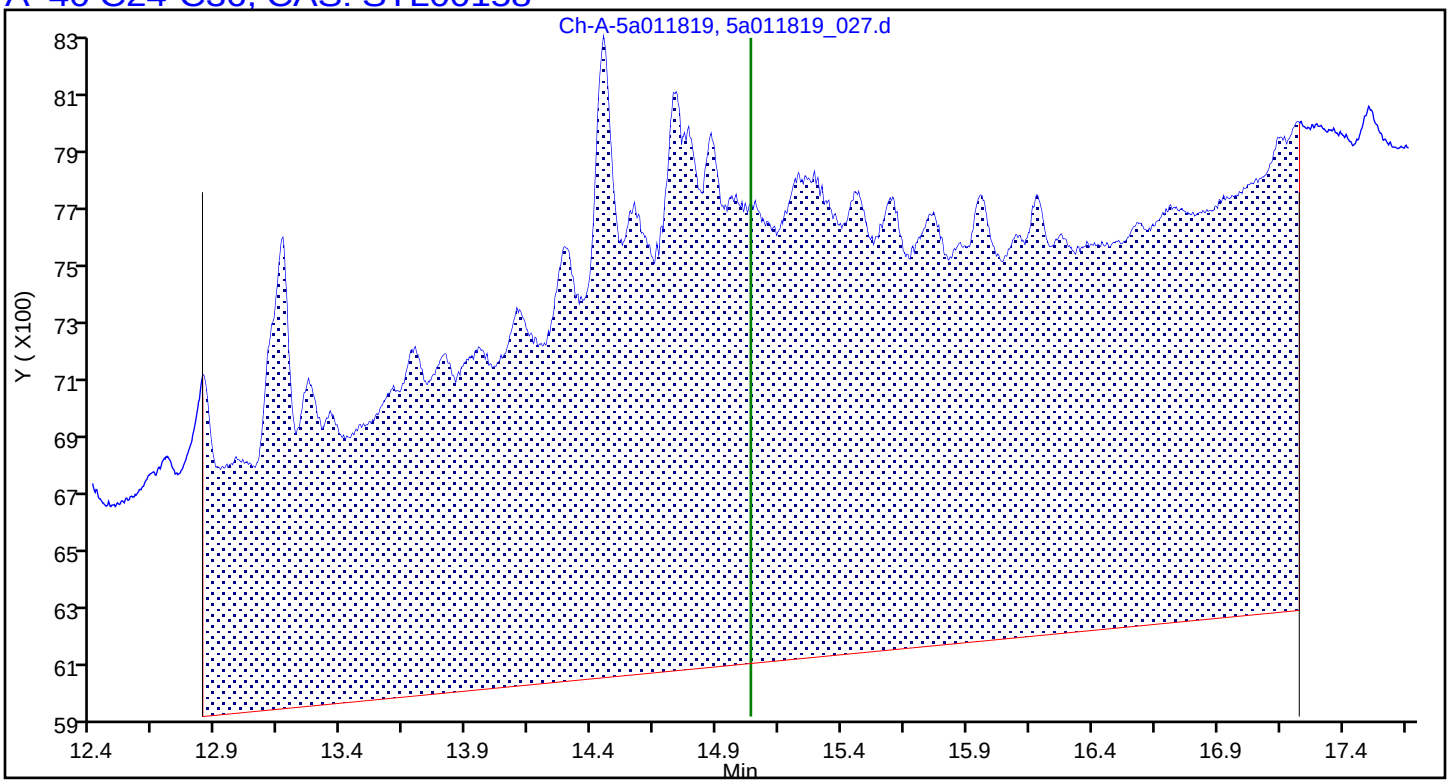


Report Date: 21-Jan-2019 12:34:36 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_027.d				
Injection Date:	18-Jan-2019 21:46:45	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-11-C	Lab Sample ID:	720-90698-11		
Client ID:	DG-N9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

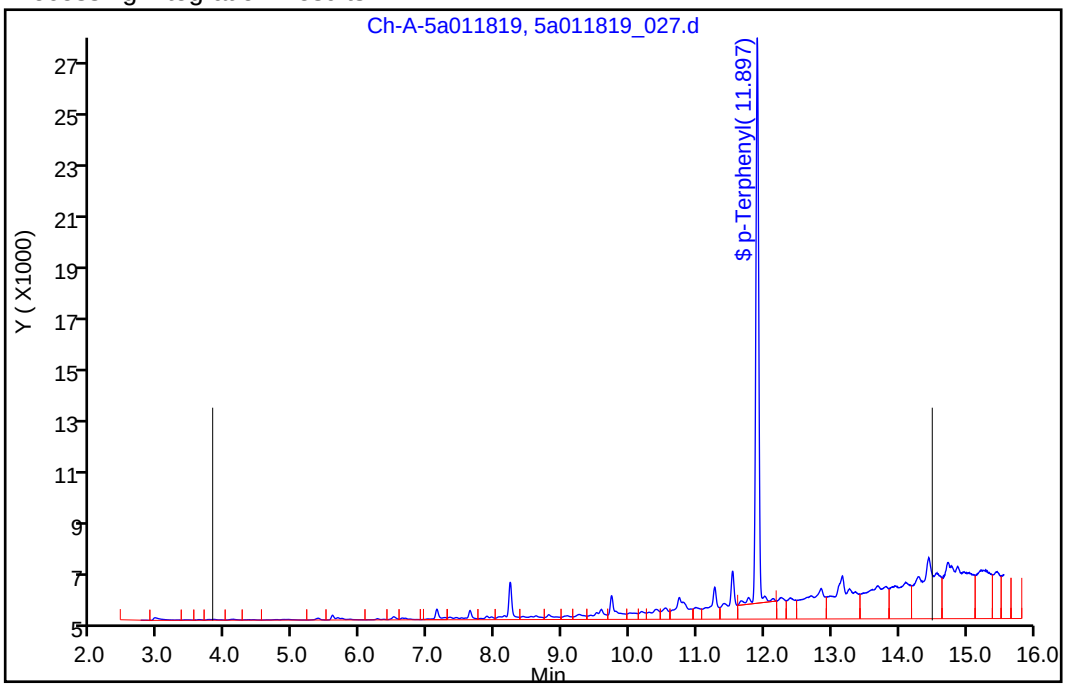
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Injection Date:	18-Jan-2019 21:46:45	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-11-C	Lab Sample ID:	720-90698-11		
Client ID:	DG-N9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.146, CAS: STL00143

Signal: 1

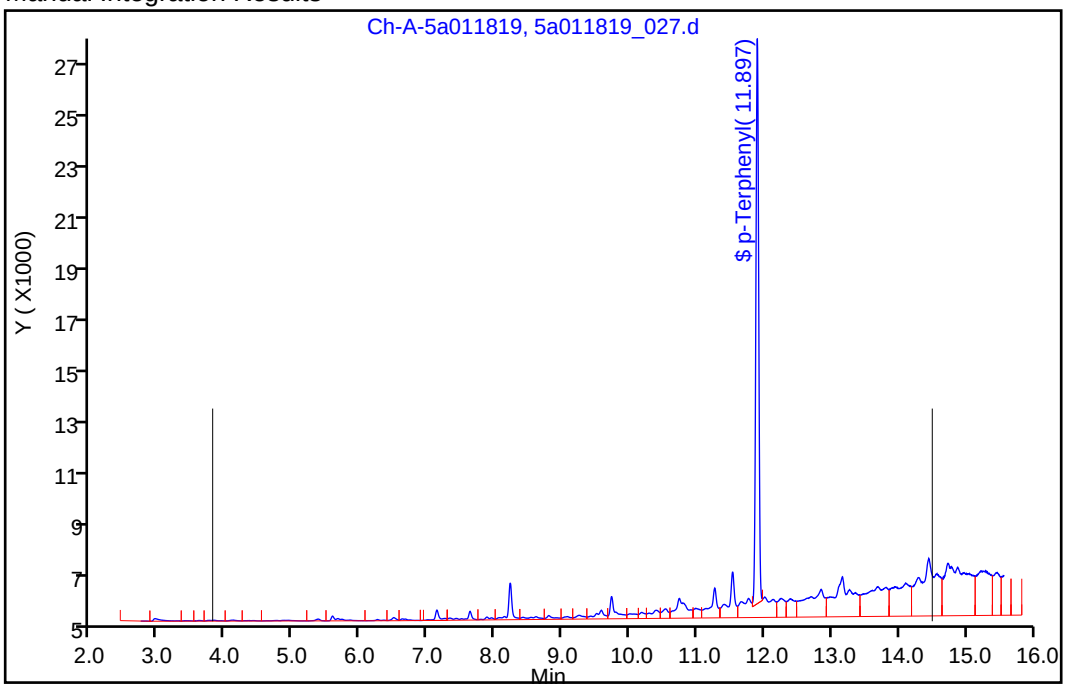
Processing Integration Results

RT: 9.15
Response: 1295667
Amount: 132.1973



Manual Integration Results

RT: 9.15
Response: 1159712
Amount: 118.3257



Reviewer: luj, 21-Jan-2019 12:34:02

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

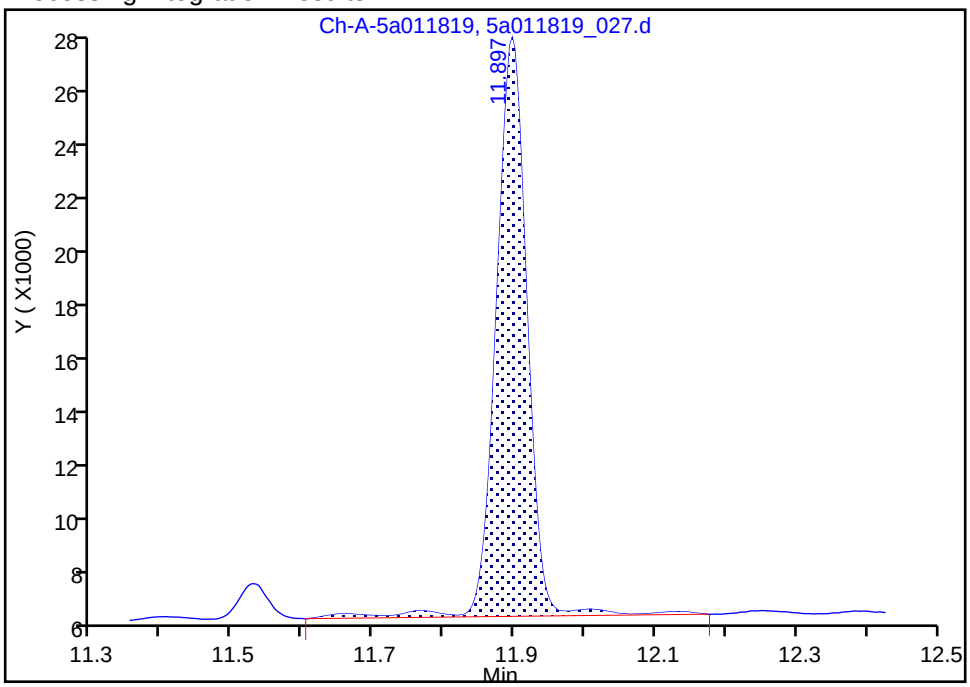
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_027.d				
Injection Date:	18-Jan-2019 21:46:45	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-11-C	Lab Sample ID:	720-90698-11		
Client ID:	DG-N9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

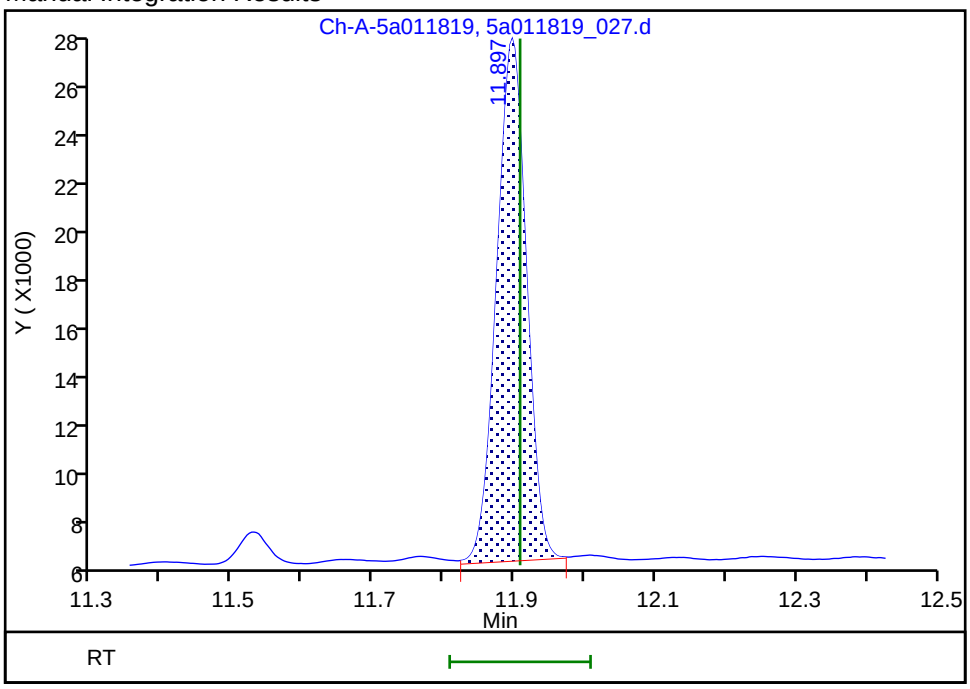
Processing Integration Results

RT: 11.90
Area: 327198
Amount: 27.438186
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 312366
Amount: 26.194404
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 12:34:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_022.d
Lims ID: 720-90698-E-12-C
Client ID: DG-O11S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 19:20:28 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 031 Name: 720-0056158-022
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:27:19 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:27:19

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.488	2.548	-0.060	1539	NC	
23 n-Decane	3.825	3.794	0.031	2492	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		22653	NC	
A 1 C9-C13	4.531	(2.548-6.514)		22653	NC	
A 57 C10-C12	4.752	(3.794-5.710)		13752	1.40	
24 Dodecane		5.710			ND	
A 3 C9 - C17	5.896	(2.548-9.244)		84034	6.93	
A 47 C9 - C18	6.183	(2.548-9.817)		123856	11.5	
A 60 C10-C16	6.200	(3.794-8.605)		64385	5.84	
A 25 C9-C19	6.462	(2.548-10.375)		123856	10.1	
A 15 Kerosene	6.462	(2.548-10.375)		123856	11.5	
26 C13	6.482	6.514	-0.032	4371	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	U
A 59 C12-C16	7.157	(5.710-8.605)		55851	5.70	
A 62 C10-C20	7.353	(3.794-10.912)		222904	22.7	
A 28 C9-C24	7.695	(2.548-12.842)		683640	69.8	
A 29 C9-C25	7.914	(2.548-13.279)		1189168	121.3	
A 54 C10-C23	8.091	(3.794-12.389)		679110	69.3	
A 4 C10-C24	8.318	(3.794-12.842)		679110	69.3	
A 16 C10-C25	8.536	(3.794-13.279)		1184638	120.9	
45 Hexadecane	8.600	8.605	-0.005	22491	NC	
A 14 C10-C26	8.747	(3.794-13.700)		1722792	175.8	
A 67 C12-C22	8.813	(5.710-11.916)		429407	43.8	
A 5 Diesel	9.146	(3.794-14.499)		2298032	234.5	
A 32 C10-C28	9.146	(3.794-14.499)		2298032	234.5	
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		2298032	NC	
A 30 C13-C22	9.215	(6.514-11.916)		424189	43.3	
44 Heptadecane	9.243	9.244	-0.001	8569	NC	
A 31 C12-C24	9.276	(5.710-12.842)		670576	68.4	
49 n-Octadecane	9.739	9.817	-0.078	26512	NC	
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		5044928	NC	
A 52 Mineral oil	9.889	(2.548-17.229)		5510863	491.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		5510863	NC	
33 C19		10.375			ND	
A 64 C13-C28	10.507	(6.514-14.499)		2284280	233.1	
A 17 C10-C36	10.512	(3.794-17.229)		5040398	514.3	
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		6659591	NC	
A 13 C9-C40	10.665	(2.548-18.782)		6659591	805.3	
A 58 C16-C24	10.724	(8.605-12.842)		637216	65.0	
61 icosane		10.912			ND	
A 6 C10-C40	11.288	(3.794-18.782)		6653101	804.9	
$ 34 p-Terphenyl	11.893	11.908	-0.015	317056	26.6	M
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		6632194	802.7	
36 Tricosane		12.389			ND	
A 66 C13-C40	12.648	(6.514-18.782)		6620878	801.4	
37 n-Tetracosane	12.843	12.842	0.001	252154	NC	
A 2 C16-C36 ORO	12.917	(8.605-17.229)		5397323	711.2	
38 C25	13.341	13.279	0.062	151056	NC	
A 19 C16-C40	13.694	(8.605-18.782)		6546051	792.5	
46 n-Hexacosane	13.685	13.700	-0.015	387098	NC	
A 20 C19-C36	13.802	(10.375-17.229)		4801823	556.5	
A 55 C23-C32	14.167	(12.389-15.946)		3412039	717.5	
39 n-Octacosane	14.448	14.499	-0.051	575240	NC	
65 C29		14.878			ND	
A 40 C24-C36	15.036	(12.842-17.229)		4137667	679.2	
A 7 Motor Oil	15.036	(12.842-17.229)		4137667	679.2	
A 50 C25-C36	15.254	(13.279-17.229)		3785250	654.3	
A 10 C22-C40	15.349	(11.916-18.782)		5249488	627.9	
A 41 C23-C40	15.585	(12.389-18.782)		5364377	654.1	
A 8 C24-C40	15.812	(12.842-18.782)		5186671	652.0	
56 Dotriacontane	15.947	15.946	0.001	204084	NC	
A 51 C28-C40	16.641	(14.499-18.782)		3829828	618.6	
A 63 C29-C40	16.830	(14.878-18.782)		3357533	595.9	
42 n-Hexatriacontane	17.207	17.229	-0.022	460584	NC	
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

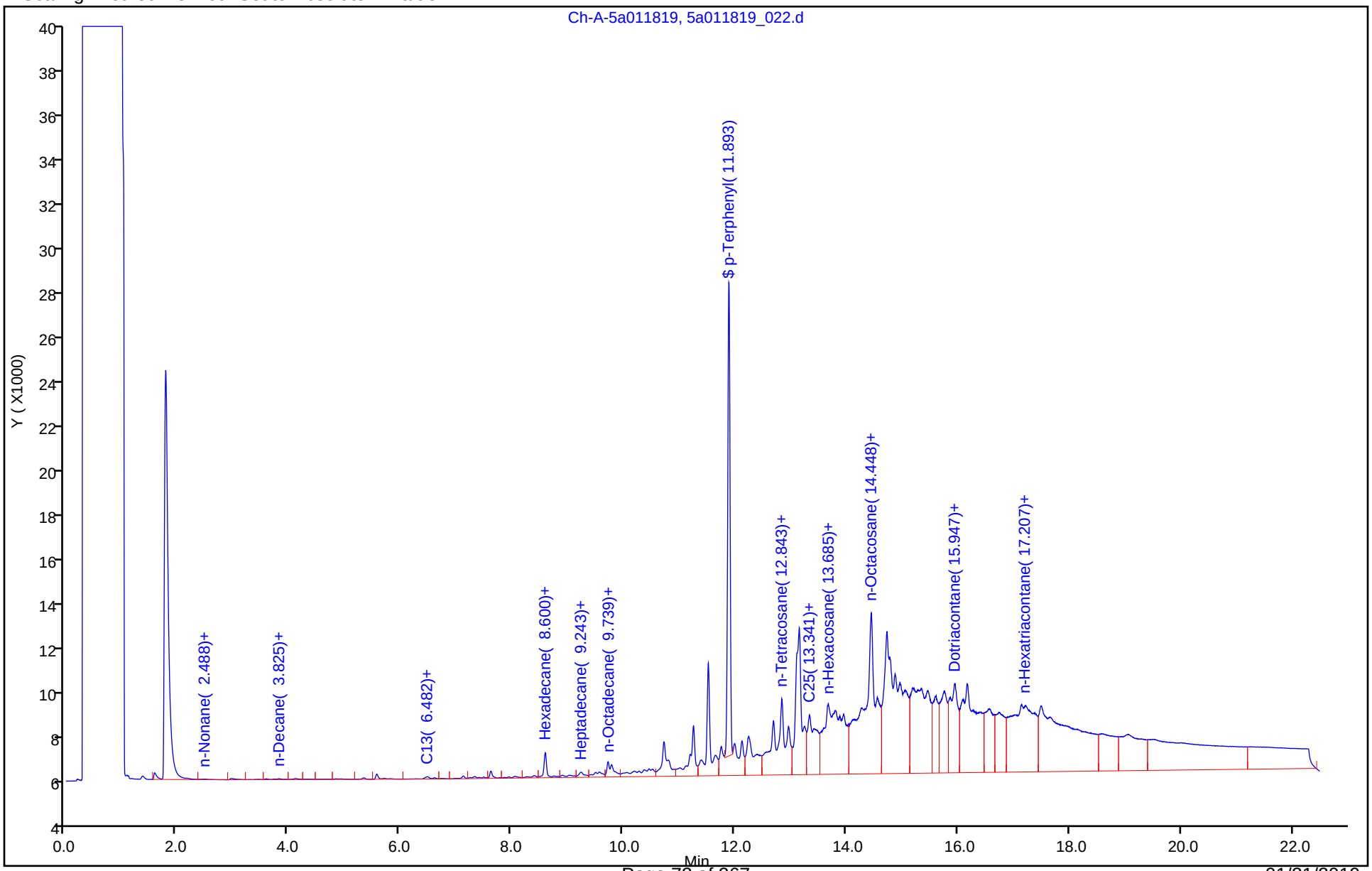
Report Date: 21-Jan-2019 12:27:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_022.d

Injection Date:	18-Jan-2019 19:20:28	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-12-C	Lab Sample ID:	720-90698-12	Worklist Smp#:	22
Client ID:	DG-O11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_022.d				
Lims ID:	720-90698-E-12-C				
Client ID:	DG-O11S-0.5-1				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 19:20:28	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 031 Name: 720-0056158-022				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	21-Jan-2019 12:27:19	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 21-Jan-2019 12:27:19

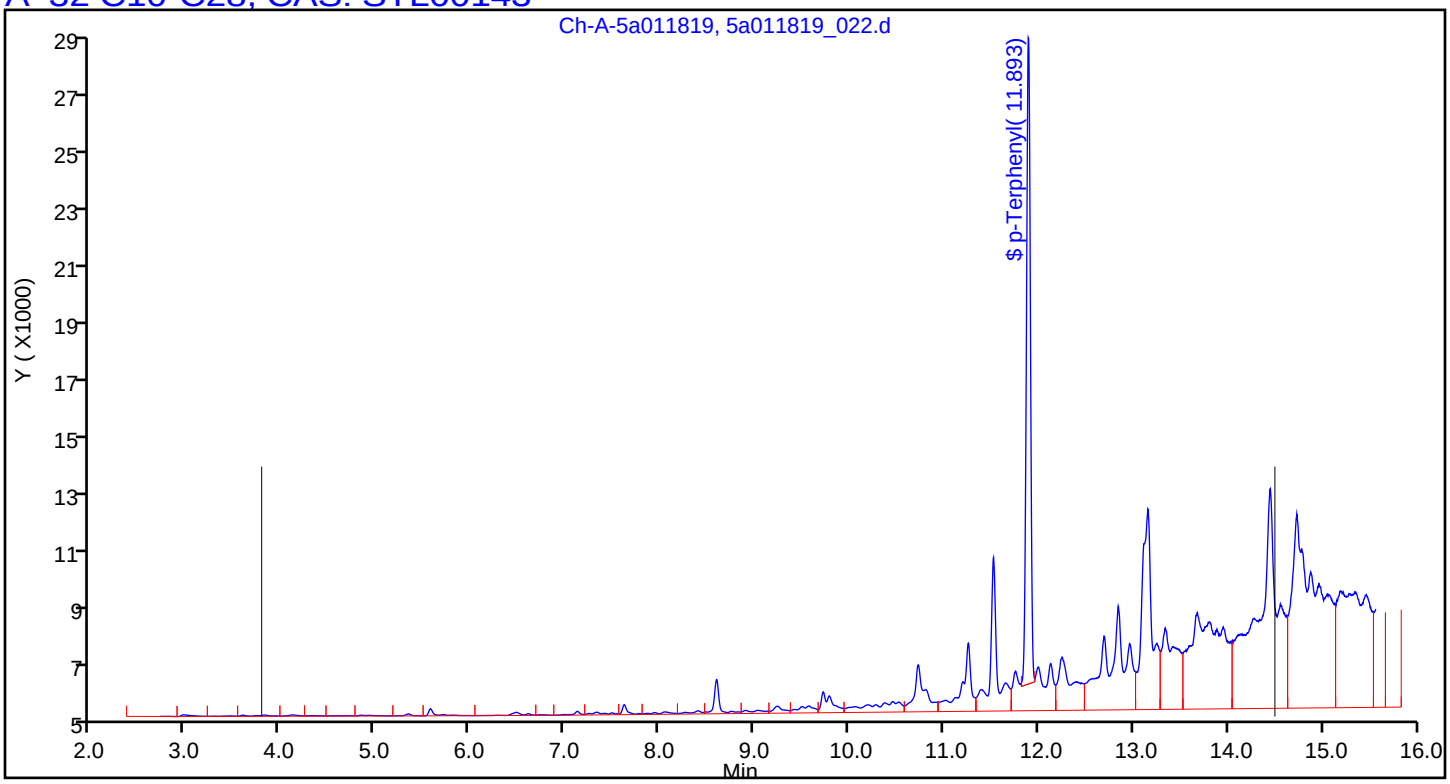
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.6	106.35

Report Date: 21-Jan-2019 12:27:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_022.d				
Injection Date:	18-Jan-2019 19:20:28	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-12-C	Lab Sample ID:	720-90698-12		
Client ID:	DG-O11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

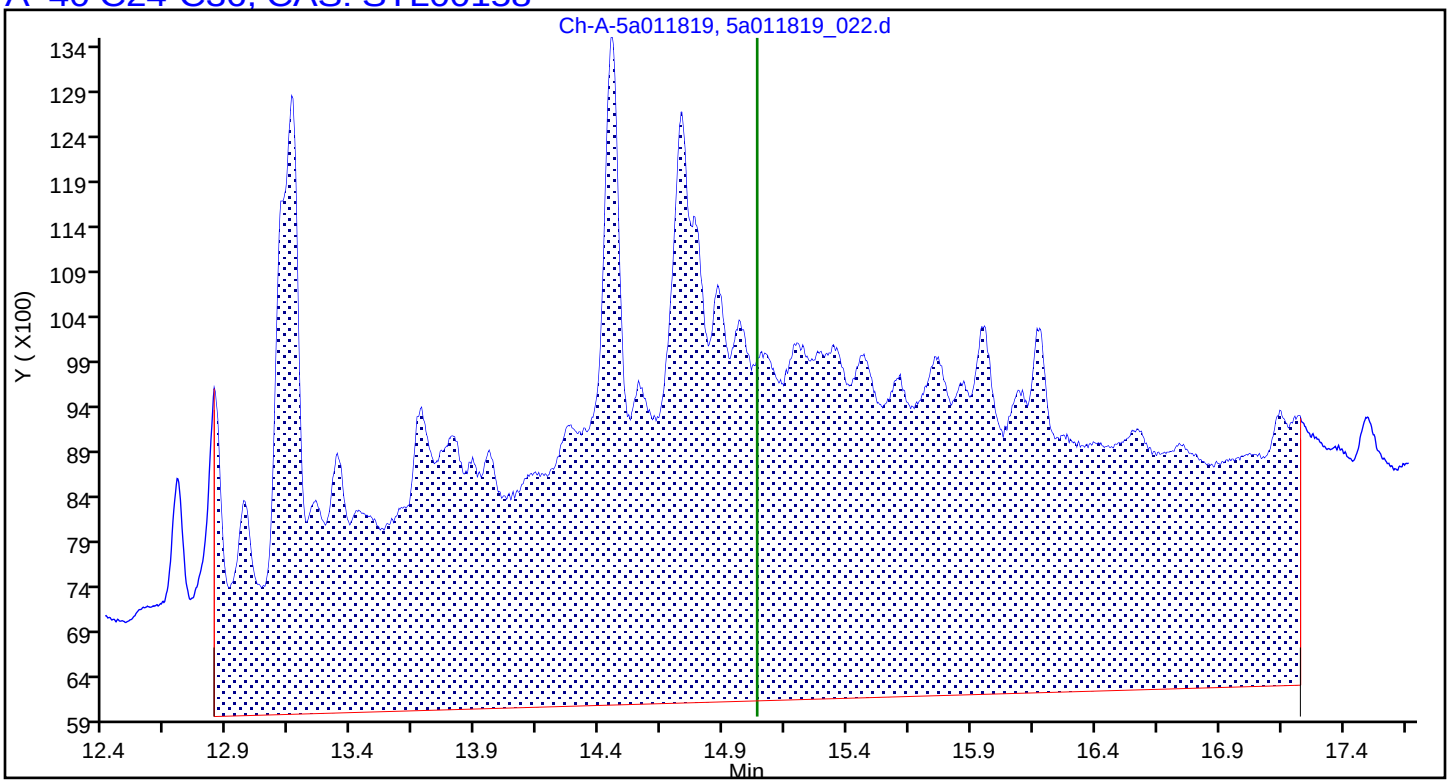


Report Date: 21-Jan-2019 12:27:21 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_022.d				
Injection Date:	18-Jan-2019 19:20:28	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-12-C	Lab Sample ID:	720-90698-12		
Client ID:	DG-O11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

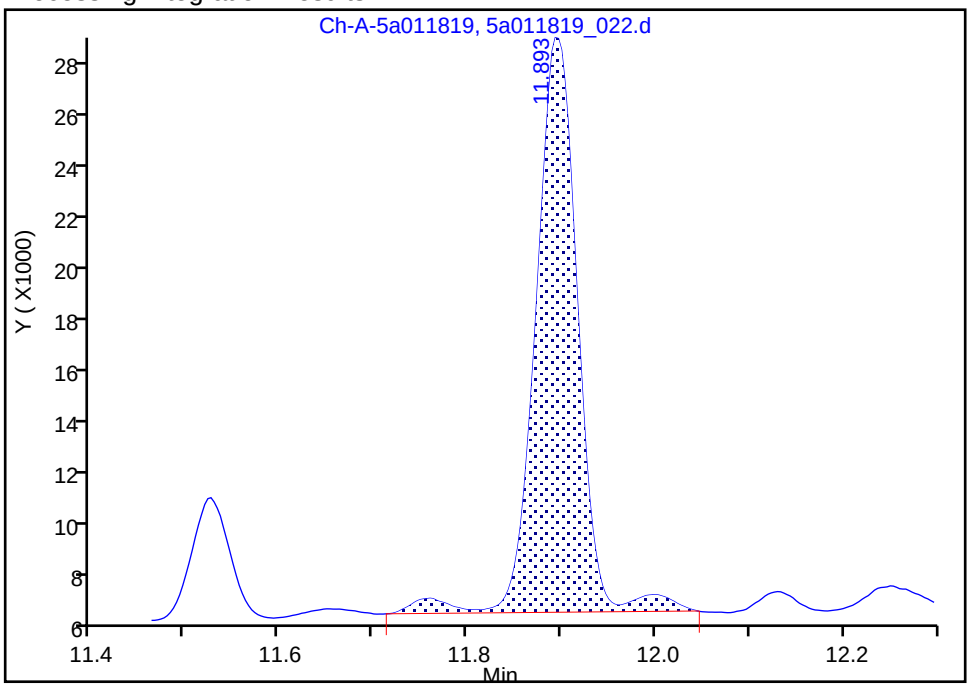
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_022.d				
Injection Date:	18-Jan-2019 19:20:28	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-12-C	Lab Sample ID:	720-90698-12		
Client ID:	DG-O11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

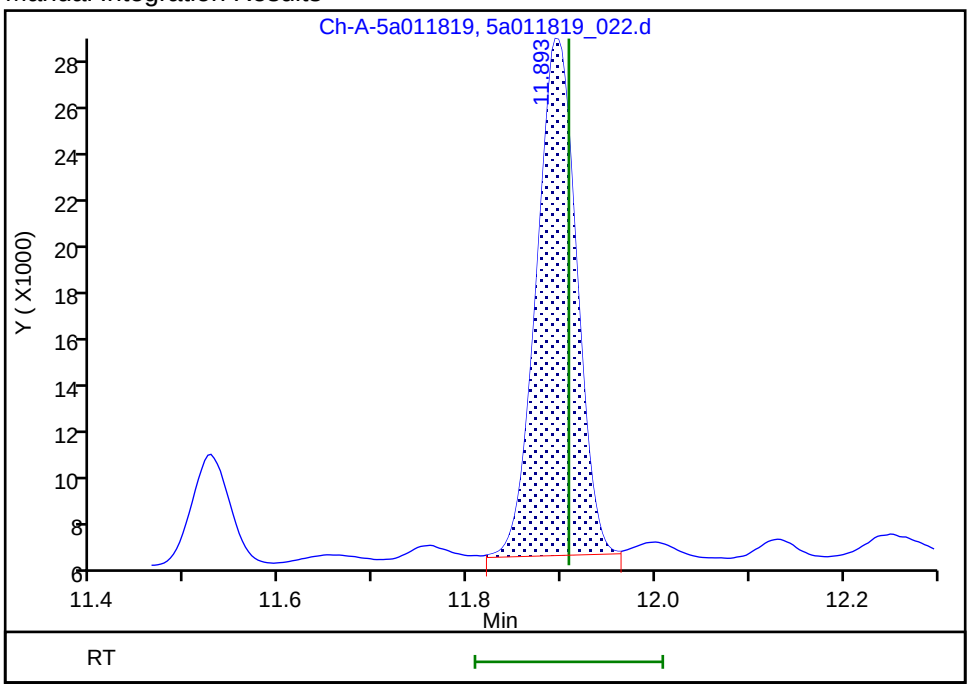
Processing Integration Results

RT: 11.89
Area: 338961
Amount: 28.424608
Amount Units: mg/L



Manual Integration Results

RT: 11.89
Area: 317056
Amount: 26.587698
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 12:27:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000035.D
Lims ID: 720-90698-E-13-C
Client ID: DG-O11S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 23:23:29 ALS Bottle#: 85 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056142-035
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 12:56:32 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 12:56:42

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.352	1.350	0.002	13014	NC	
	23 n-Decane	2.205	2.206	-0.001	541153	NC	M
A	21 Stoddard Solvent	2.808	(1.350-4.267)		34237451	14.4	M
A	1 C9-C13	2.808	(1.350-4.267)		34237451	NC	M
A	57 C10-C12	2.930	(2.206-3.655)		13066658	6.61	M
	24 Dodecane	3.657	3.655	0.002	649375	NC	M
A	3 C9 - C17	3.834	(1.350-6.318)		85015590	29.6	M
A	60 C10-C16	4.027	(2.206-5.848)		69612350	27.2	M
A	47 C9 - C18	4.057	(1.350-6.764)		104349326	46.0	M
	26 C13	4.263	4.267	-0.004	1416392	NC	M
A	25 C9-C19	4.269	(1.350-7.188)		125334909	43.4	M
A	15 Kerosene	4.269	(1.350-7.188)		125334909	55.2	M
$	27 n-Decanoic Acid (Surr)		4.620			ND	U
A	59 C12-C16	4.751	(3.655-5.848)		56545692	28.6	M
A	61 C10-C20	4.900	(2.206-7.595)		181567883	91.8	M
A	28 C9-C24	5.206	(1.350-9.061)		410834787	207.8	M
A	29 C9-C25	5.372	(1.350-9.394)		491307110	248.5	M
A	54 C10-C23	5.461	(2.206-8.716)		363102870	183.6	M
A	4 C10-C24	5.633	(2.206-9.061)		408062650	206.4	M
A	16 C10-C25	5.800	(2.206-9.394)		488534973	247.0	M
	45 Hexadecane	5.852	5.848	0.004	2680414	NC	M
A	14 C10-C26	5.960	(2.206-9.714)		617906876	312.5	M
A	67 C12-C22	6.006	(3.655-8.358)		273684189	138.4	M
A	32 C10-C28	6.265	(2.206-10.323)		740298965	374.4	M
A	12 Unknown Hydrocarbons	6.265	(2.206-10.323)		740298965	NC	M
A	5 Diesel	6.265	(2.206-10.323)		740298965	374.4	M
A	30 C13-C22	6.312	(4.267-8.358)		256701925	129.8	M
	44 Heptadecane	6.390	6.318	0.072	9565187	NC	M
A	31 C12-C24	6.358	(3.655-9.061)		394995992	199.7	M
	49 n-Octadecane	6.807	6.764	0.043	9738315	NC	M
A	52 Mineral oil	6.879	(1.350-12.409)		1858891789	807.7	M
A	11 Bunker Range Organics (C9-	6.879	(1.350-12.409)		1858891789	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.879	(1.350-12.409)		1858891789	NC	M
33 C19	7.227	7.188	0.039	22781162	NC	M
A 64 C13-C28	7.295	(4.267-10.323)		710250043	359.2	M
A 17 C10-C36	7.307	(2.206-12.409)		1856119652	938.6	M
A 13 C9-C40	7.369	(1.350-13.388)		3385128530	1909.7	M
A 68 Crude Oil Range Organics (	7.369	(1.350-13.388)		3385128530	NC	M
A 58 C16-C24	7.454	(5.848-9.061)		338450300	171.2	M
62 icosane	7.592	7.595	-0.003	5387075	NC	M
A 6 C10-C40	7.797	(2.206-13.388)		3382356393	1910.3	M
$ 34 p-Terphenyl	8.047	8.057	-0.010	22974663	9.74	
35 n-Docosane	8.355	8.358	-0.003	13537865	NC	M
A 18 C12-C40	8.521	(3.655-13.388)		3369289735	1909.9	M
36 Tricosane	8.716	8.716	0.000	76352023	NC	M
A 66 C13-C40	8.827	(4.267-13.388)		3352307471	1902.0	M
37 n-Tetracosane	9.067	9.061	0.006	21189832	NC	M
A 2 C16-C36 ORO	9.128	(5.848-12.409)		1786507302	1319.4	M
38 C25	9.396	9.394	0.002	31834976	NC	M
A 19 C16-C40	9.618	(5.848-13.388)		3312744043	1883.3	M
46 n-Hexacosane	9.712	9.714	-0.002	51780129	NC	M
A 20 C19-C36	9.798	(7.188-12.409)		1263244611	784.7	
A 55 C23-C32	10.072	(8.716-11.428)		1074438258	1211.2	M
39 n-Octacosane	10.383	10.323	0.060	114583070	NC	M
65 C29	10.607	10.613	-0.006	46640414	NC	M
A 7 Motor Oil	10.735	(9.061-12.409)		1176710213	1017.2	
A 40 C24-C36	10.735	(9.061-12.409)		1444278566	1248.5	M
A 10 C22-C40	10.873	(8.358-13.388)		1644800371	1016.0	
A 50 C25-C36	10.901	(9.394-12.409)		1092213996	1009.0	
A 41 C23-C40	11.052	(8.716-13.388)		1616327140	1017.8	
A 8 C24-C40	11.225	(9.061-13.388)		1608465886	1034.9	
56 Dotriacontane	11.415	11.428	-0.013	97939256	NC	M
A 51 C28-C40	11.856	(10.323-13.388)		1333176071	1071.7	
A 63 C29-C40	12.000	(10.613-13.388)		1230162541	1077.2	
42 n-Hexatriacontane	12.343	12.409	-0.066	43445258	NC	M
43 C40		13.388			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

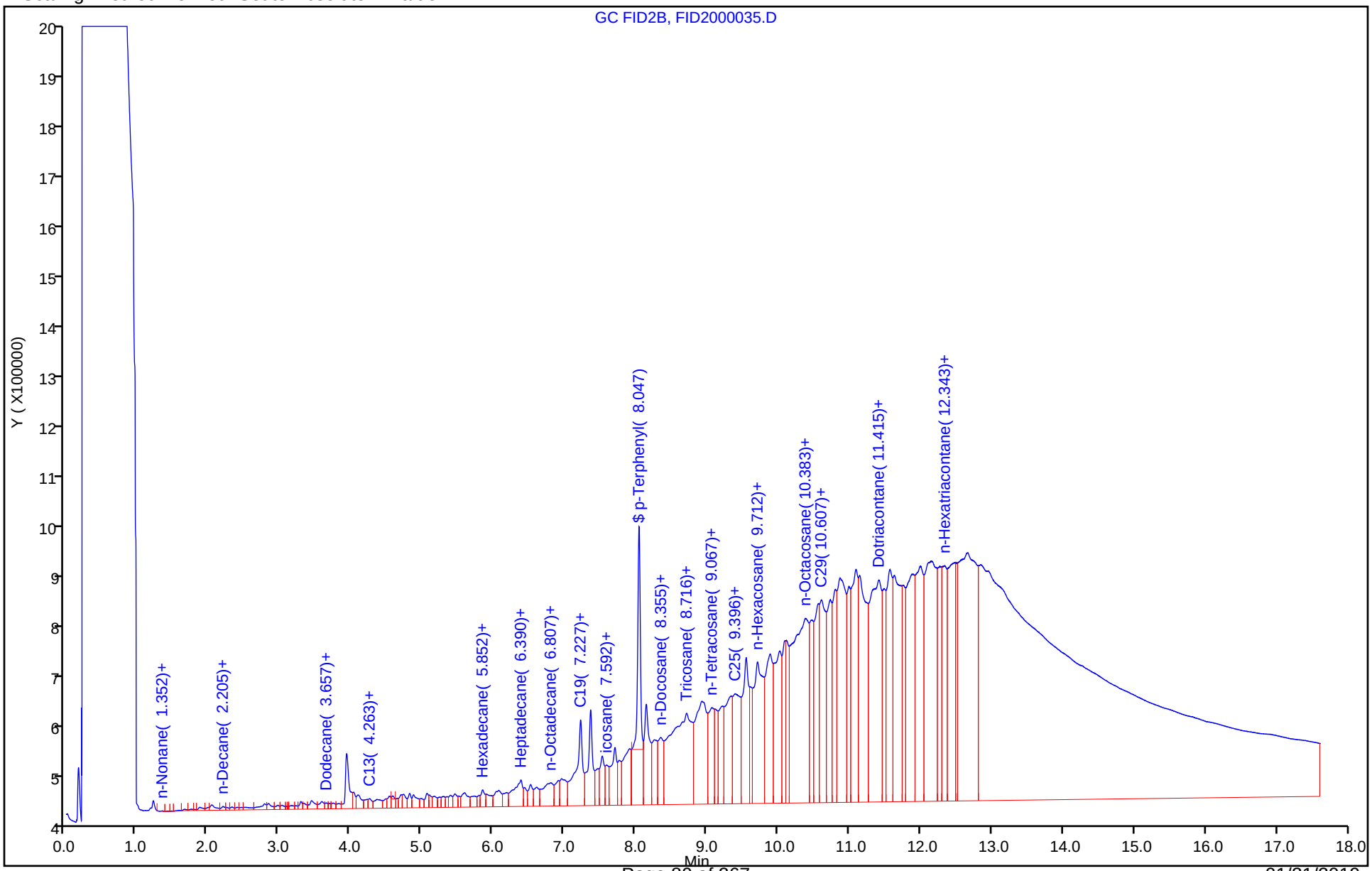
Report Date: 18-Jan-2019 12:56:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000035.D

Injection Date:	17-Jan-2019 23:23:29	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-13-C	Lab Sample ID:	720-90698-13	Worklist Smp#:	35
Client ID:	DG-O11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	85
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000035.D
Lims ID: 720-90698-E-13-C
Client ID: DG-O11S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 23:23:29 ALS Bottle#: 85 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: 720-0056142-035
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 12:56:32 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 12:56:42

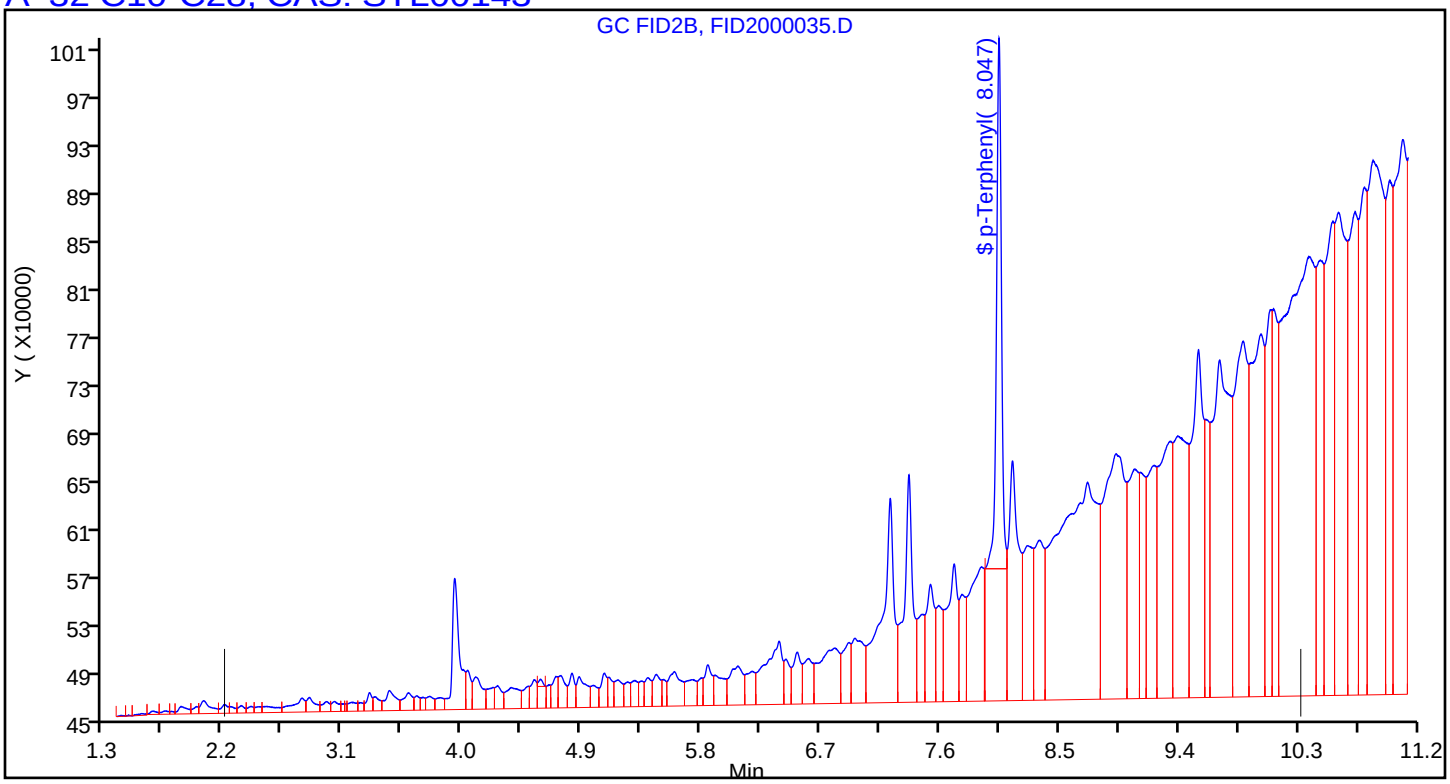
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	9.74	38.97

Report Date: 18-Jan-2019 12:56:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000035.D				
Injection Date:	17-Jan-2019 23:23:29	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-13-C	Lab Sample ID:	720-90698-13		
Client ID:	DG-O11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	85	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

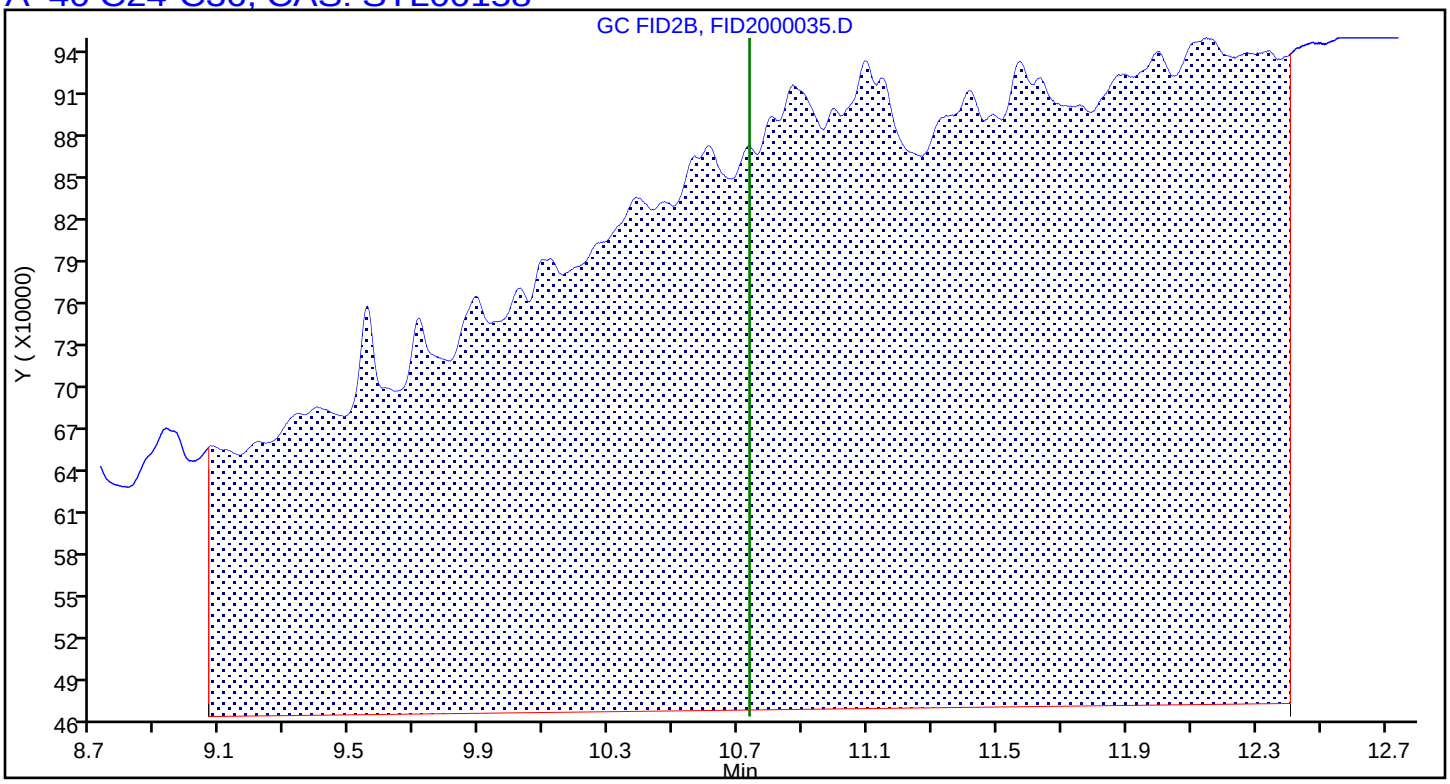


Report Date: 18-Jan-2019 12:56:50 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000035.D				
Injection Date:	17-Jan-2019 23:23:29	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-13-C	Lab Sample ID:	720-90698-13		
Client ID:	DG-O11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	85	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

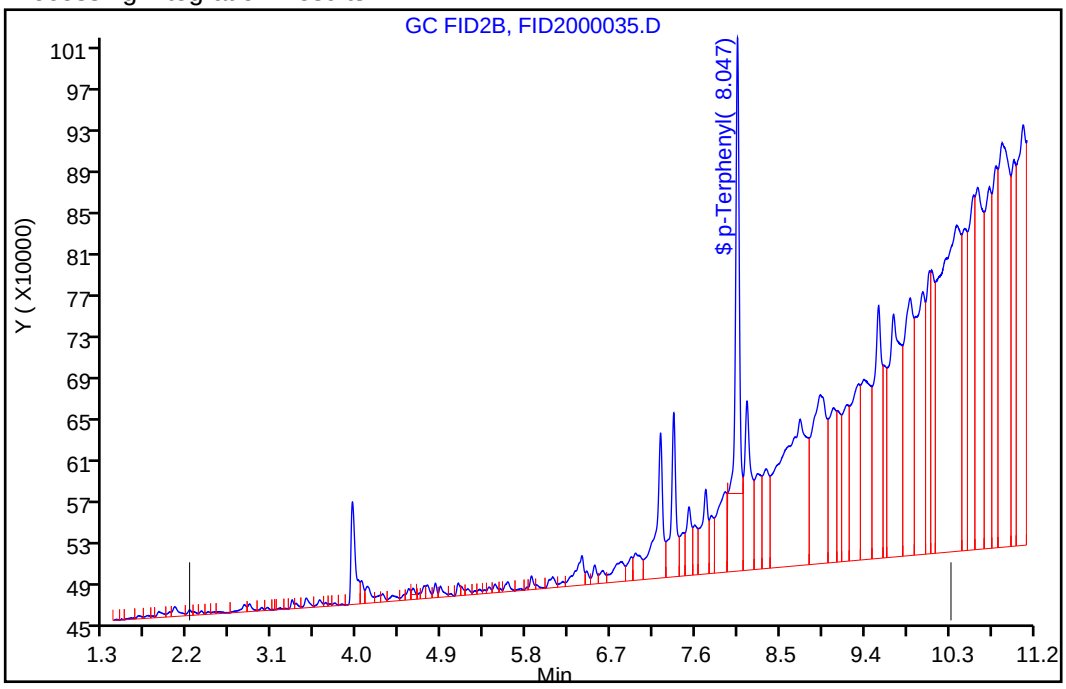
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000035.D				
Injection Date:	17-Jan-2019 23:23:29	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-13-C	Lab Sample ID:	720-90698-13		
Client ID:	DG-O11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	85	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.265, CAS: STL00143

Signal: 1

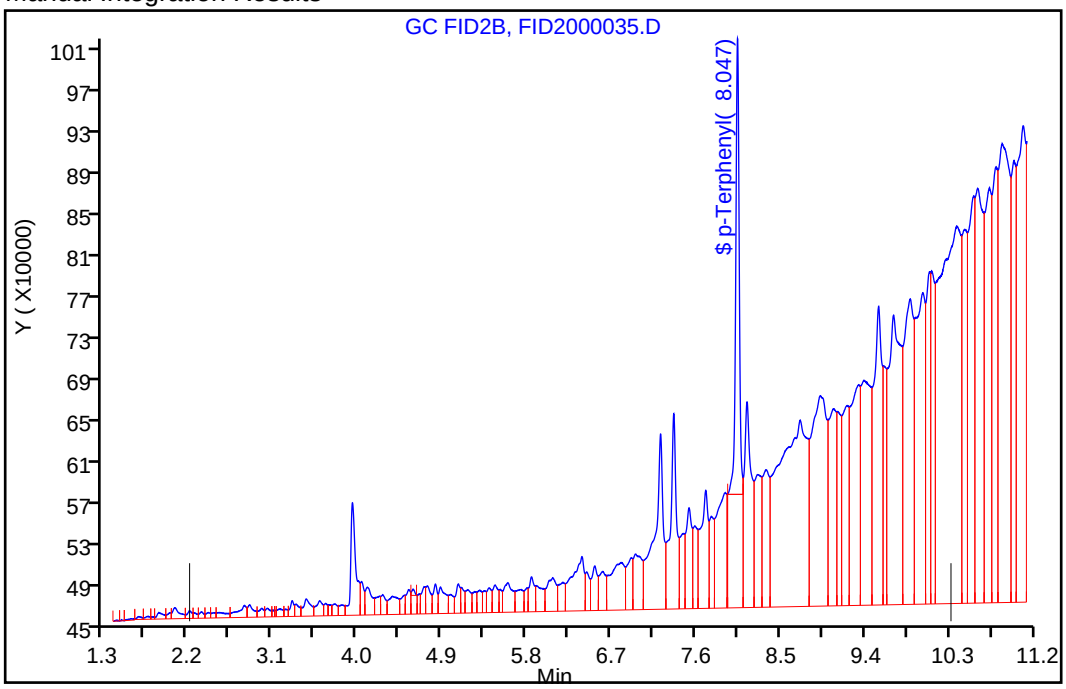
Processing Integration Results

RT: 6.26
Response: 511737260
Amount: 258.7826



Manual Integration Results

RT: 6.26
Response: 740298965
Amount: 374.3649



Reviewer: hayashid, 18-Jan-2019 12:54:43

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

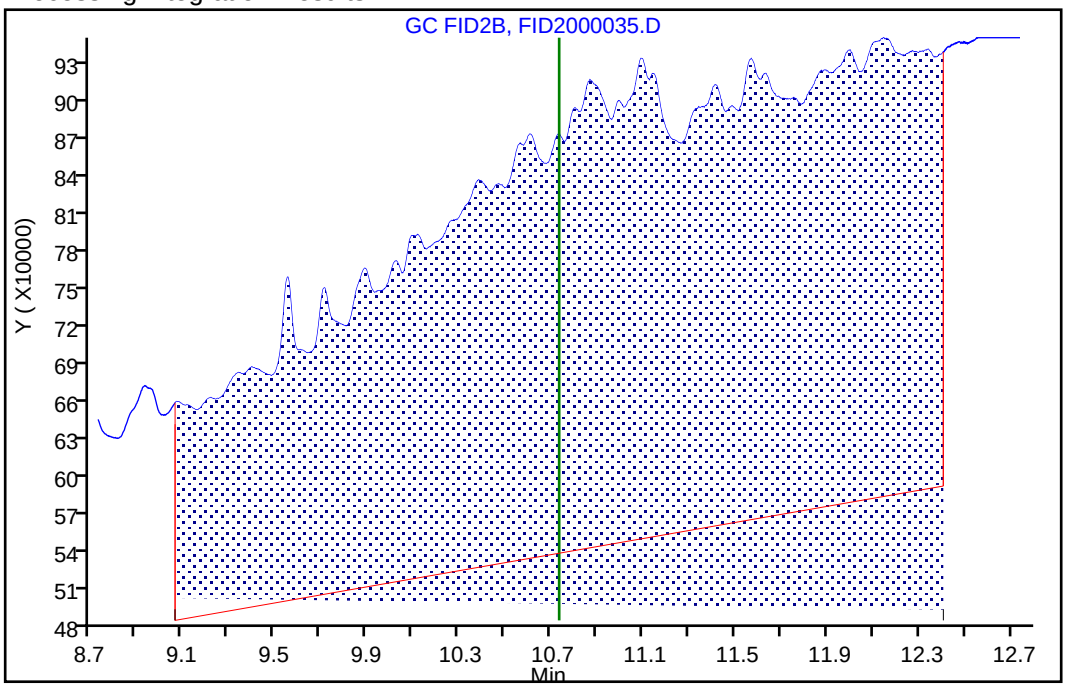
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000035.D				
Injection Date:	17-Jan-2019 23:23:29	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-13-C	Lab Sample ID:	720-90698-13		
Client ID:	DG-O11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	85	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.735, CAS: STL00158

Signal: 1

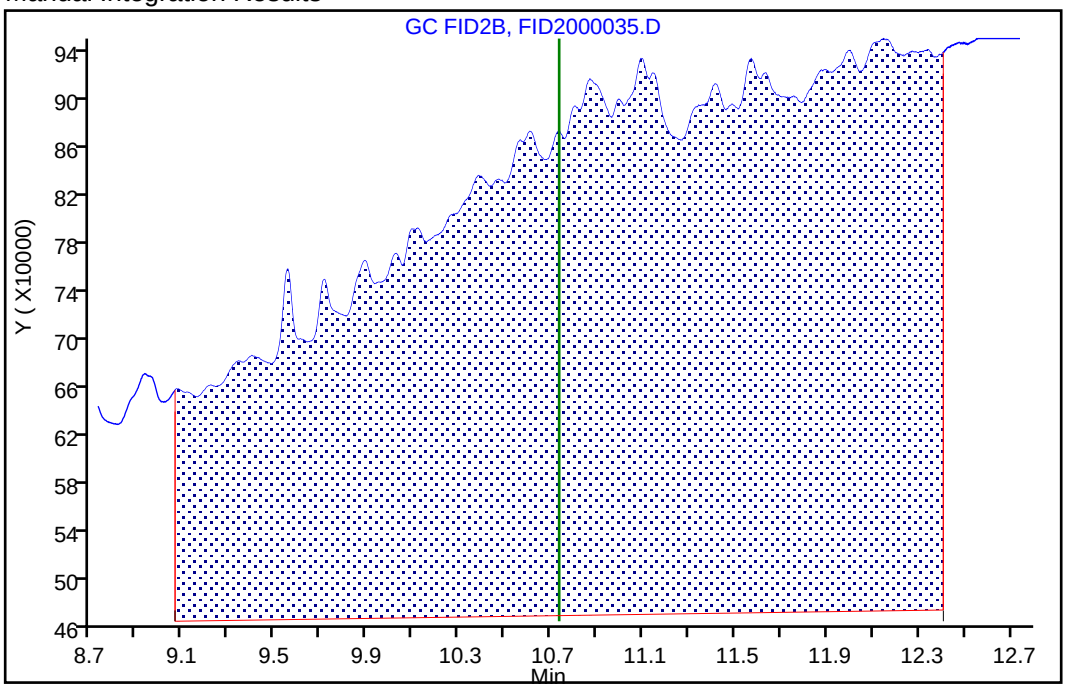
Processing Integration Results

RT: 10.73
Response: 1176710213
Amount: 1017.2062



Manual Integration Results

RT: 10.73
Response: 1444278566
Amount: 1248.5055



Reviewer: hayashid, 18-Jan-2019 12:54:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000037.D
Lims ID: 720-90698-E-14-C
Client ID: DG-Q11S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 00:12:01 ALS Bottle#: 87 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 720-0056142-037
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 12:58:12 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 12:58:12

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.350			ND	
	23 n-Decane	2.214	2.206	0.008	233580	NC	M
A	21 Stoddard Solvent	2.808	(1.350-4.267)		14570821	6.12	M
A	1 C9-C13	2.808	(1.350-4.267)		14570821	NC	M
A	57 C10-C12	2.930	(2.206-3.655)		7848154	3.97	M
	24 Dodecane	3.655	3.655	0.000	427401	NC	M
A	3 C9 - C17	3.834	(1.350-6.318)		70395085	24.5	M
A	60 C10-C16	4.027	(2.206-5.848)		43979119	17.2	M
A	47 C9 - C18	4.057	(1.350-6.764)		119720922	52.8	M
	26 C13	4.268	4.267	0.001	731797	NC	M
A	25 C9-C19	4.269	(1.350-7.188)		164549585	57.0	M
A	15 Kerosene	4.269	(1.350-7.188)		164549585	72.4	M
$	27 n-Decanoic Acid (Surr)		4.620			ND	U
A	59 C12-C16	4.751	(3.655-5.848)		36130965	18.3	M
A	61 C10-C20	4.900	(2.206-7.595)		250449662	126.7	M
A	28 C9-C24	5.206	(1.350-9.061)		718232708	363.2	M
A	29 C9-C25	5.372	(1.350-9.394)		880703535	445.4	M
A	54 C10-C23	5.461	(2.206-8.716)		608816811	307.9	M
A	4 C10-C24	5.633	(2.206-9.061)		716841881	362.5	M
A	16 C10-C25	5.800	(2.206-9.394)		879312708	444.7	M
	45 Hexadecane	5.851	5.848	0.003	4379103	NC	M
A	14 C10-C26	5.960	(2.206-9.714)		879312708	444.7	M
A	67 C12-C22	6.006	(3.655-8.358)		449692190	227.4	M
A	32 C10-C28	6.265	(2.206-10.323)		1430908489	723.6	M
A	12 Unknown Hydrocarbons	6.265	(2.206-10.323)		1430908489	NC	M
A	5 Diesel	6.265	(2.206-10.323)		1430908489	723.6	M
A	30 C13-C22	6.312	(4.267-8.358)		444360350	224.7	M
	44 Heptadecane	6.357	6.318	0.039	11076328	NC	M
A	31 C12-C24	6.358	(3.655-9.061)		708993727	358.5	M
	49 n-Octadecane	6.730	6.764	-0.034	14465446	NC	M
A	52 Mineral oil	6.879	(1.350-12.409)		3229593972	1403.3	M
A	11 Bunker Range Organics (C9-	6.879	(1.350-12.409)		3229593972	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.879	(1.350-12.409)		3229593972	NC	M
33 C19	7.193	7.188	0.005	22834226	NC	M
A 64 C13-C28	7.295	(4.267-10.323)		1417728495	716.9	M
A 17 C10-C36	7.307	(2.206-12.409)		3228203145	1632.5	M
A 13 C9-C40	7.369	(1.350-13.388)		5378628450	3034.3	EM
A 68 Crude Oil Range Organics (	7.369	(1.350-13.388)		5378628450	NC	M
A 58 C16-C24	7.454	(5.848-9.061)		672862762	340.3	M
62 icosane	7.602	7.595	0.007	13867196	NC	M
A 6 C10-C40	7.797	(2.206-13.388)		5377237623	3037.0	EM
$ 34 p-Terphenyl		8.057			ND	U
35 n-Docosane	8.265	8.358	-0.093	63811099	NC	M
A 18 C12-C40	8.521	(3.655-13.388)		5369389469	3043.6	EM
36 Tricosane	8.697	8.716	-0.019	50397202	NC	M
A 66 C13-C40	8.827	(4.267-13.388)		5364057629	3043.3	EM
37 n-Tetracosane	9.082	9.061	0.021	48366083	NC	M
A 2 C16-C36 ORO	9.128	(5.848-12.409)		3184224026	2351.7	M
38 C25	9.357	9.394	-0.037	61366687	NC	M
A 19 C16-C40	9.618	(5.848-13.388)		5333258504	3032.0	EM
46 n-Hexacosane		9.714			ND	
A 20 C19-C36	9.798	(7.188-12.409)		2337319846	1451.8	
A 55 C23-C32	10.072	(8.716-11.428)		1885758629	2125.8	M
39 n-Octacosane	10.269	10.323	-0.054	107342861	NC	M
65 C29	10.637	10.613	0.024	73685302	NC	M
A 7 Motor Oil	10.735	(9.061-12.409)		2119274084	1832.0	
A 40 C24-C36	10.735	(9.061-12.409)		2487630975	2150.4	M
A 10 C22-C40	10.873	(8.358-13.388)		2868800088	1772.0	
A 50 C25-C36	10.901	(9.394-12.409)		1924742775	1778.0	
A 41 C23-C40	11.052	(8.716-13.388)		2791429516	1757.8	
A 8 C24-C40	11.225	(9.061-13.388)		2748940997	1768.6	
56 Dotriacontane	11.416	11.428	-0.012	66769964	NC	M
A 51 C28-C40	11.856	(10.323-13.388)		2218952743	1783.8	
A 63 C29-C40	12.000	(10.613-13.388)		2015520921	1765.0	
42 n-Hexatriacontane	12.339	12.409	-0.070	118380622	NC	M
43 C40		13.388			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- E - Exceeded Maximum Amount

Review Flags
- M - Manually Integrated
- U - Marked Undetected

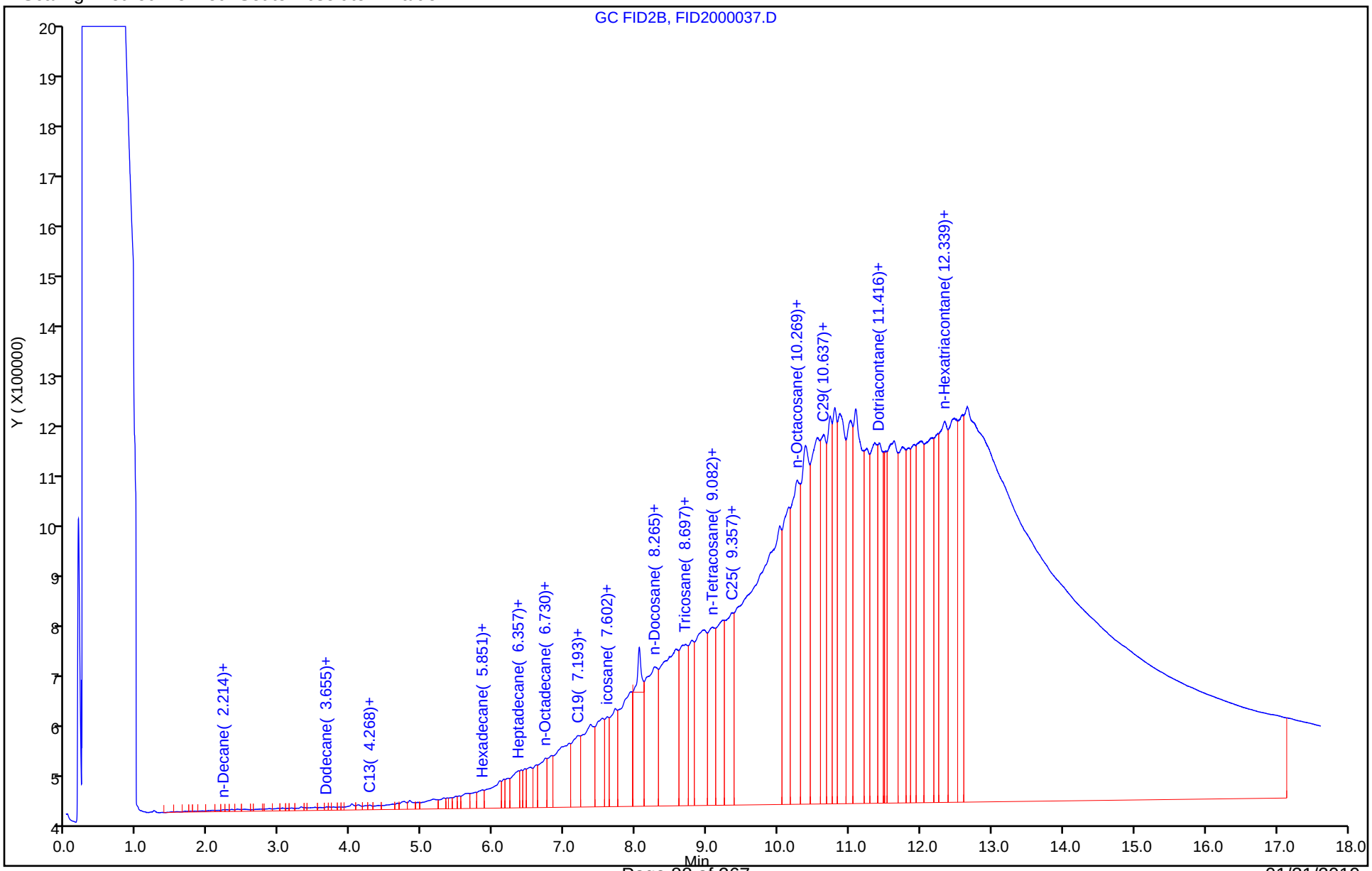
Report Date: 18-Jan-2019 12:58:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000037.D

Injection Date:	18-Jan-2019 00:12:01	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-14-C	Lab Sample ID:	720-90698-14	Worklist Smp#:	37
Client ID:	DG-Q11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	87
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



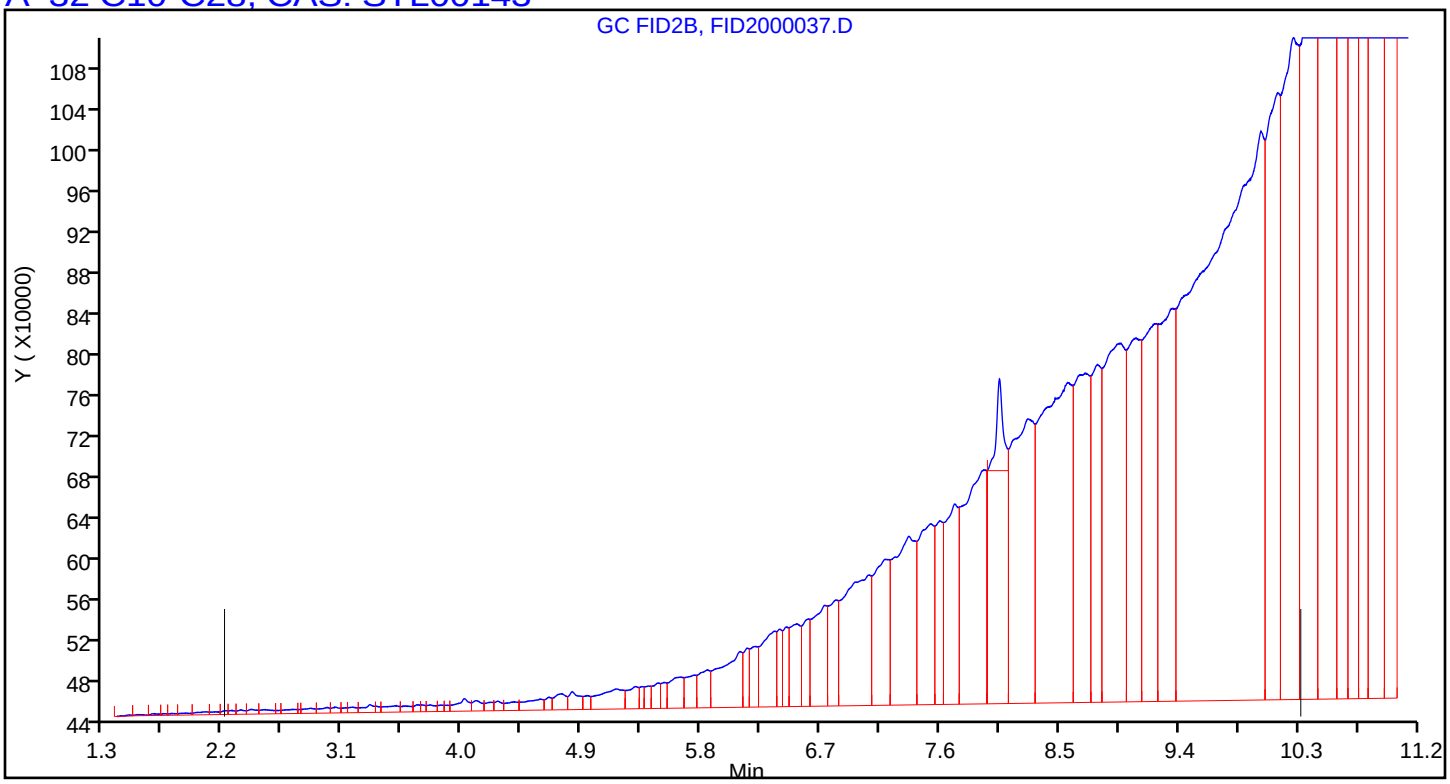
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000037.D

Injection Date:	18-Jan-2019 00:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-14-C	Lab Sample ID:	720-90698-14		
Client ID:	DG-Q11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	87	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

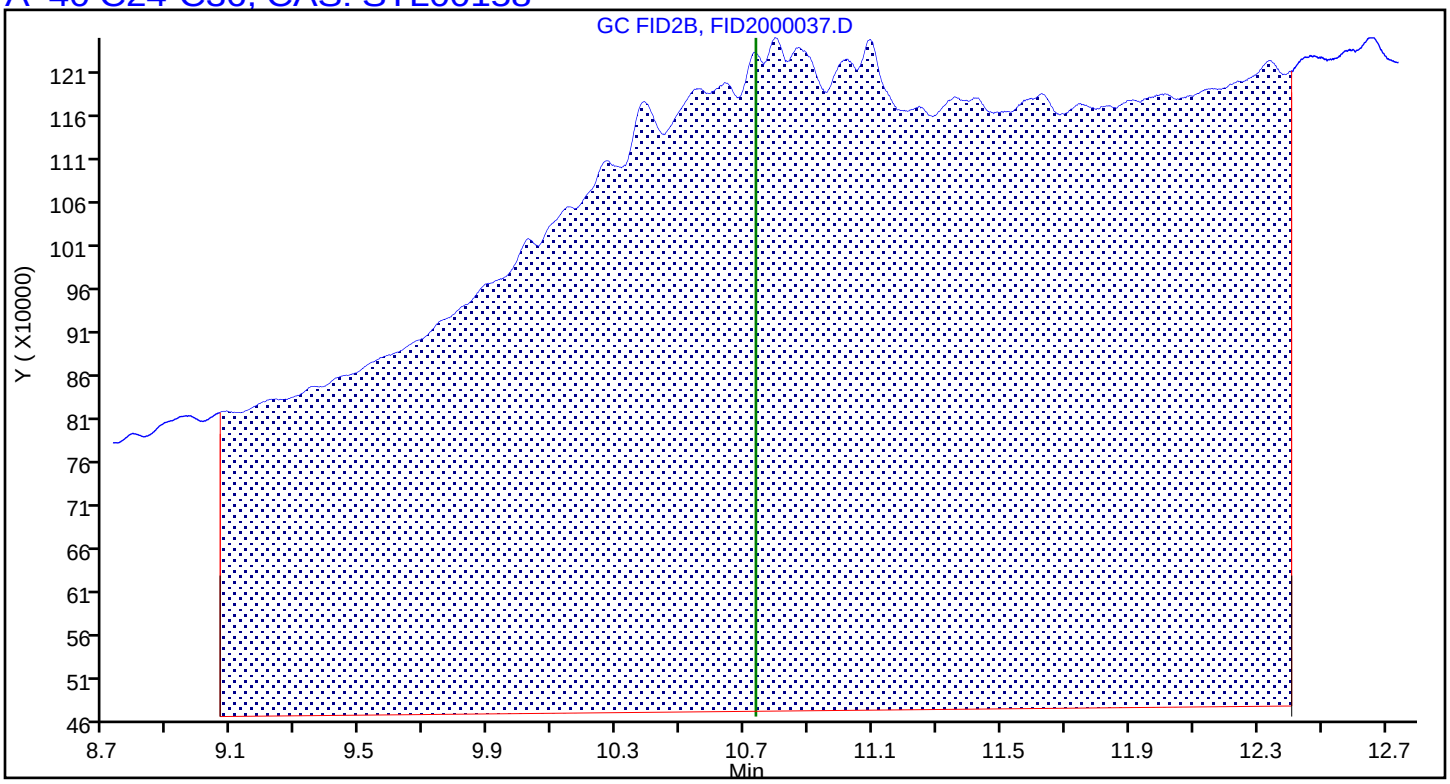


Report Date: 18-Jan-2019 12:58:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000037.D				
Injection Date:	18-Jan-2019 00:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-14-C	Lab Sample ID:	720-90698-14		
Client ID:	DG-Q11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	87	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

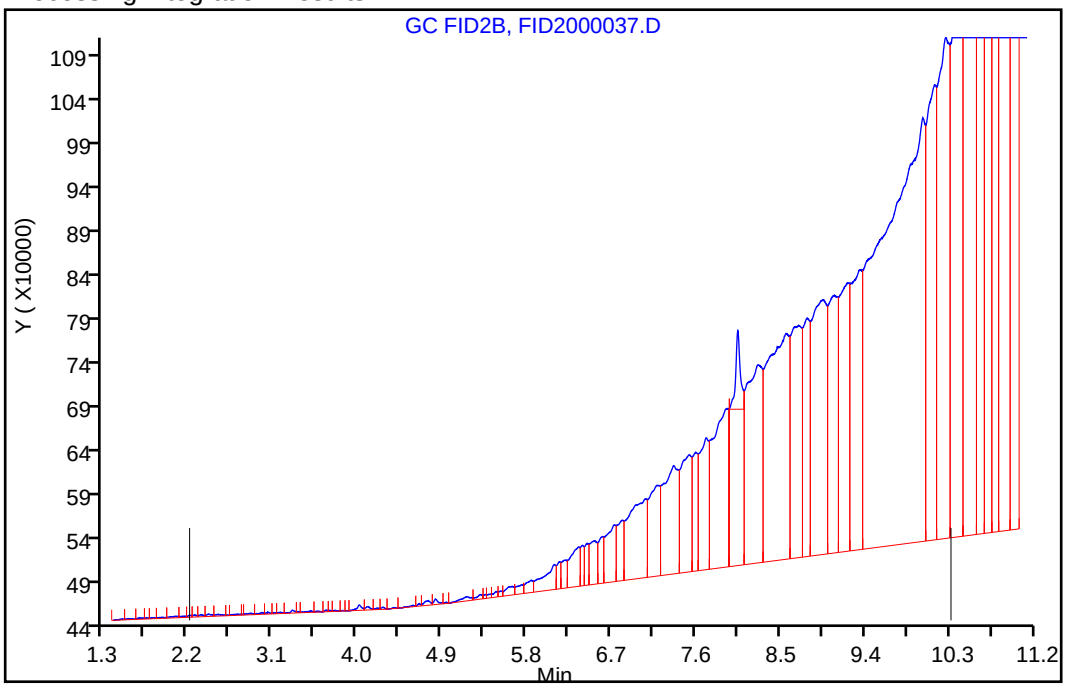
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Injection Date:	18-Jan-2019 00:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-14-C	Lab Sample ID:	720-90698-14		
Client ID:	DG-Q11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	87	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.265, CAS: STL00143

Signal: 1

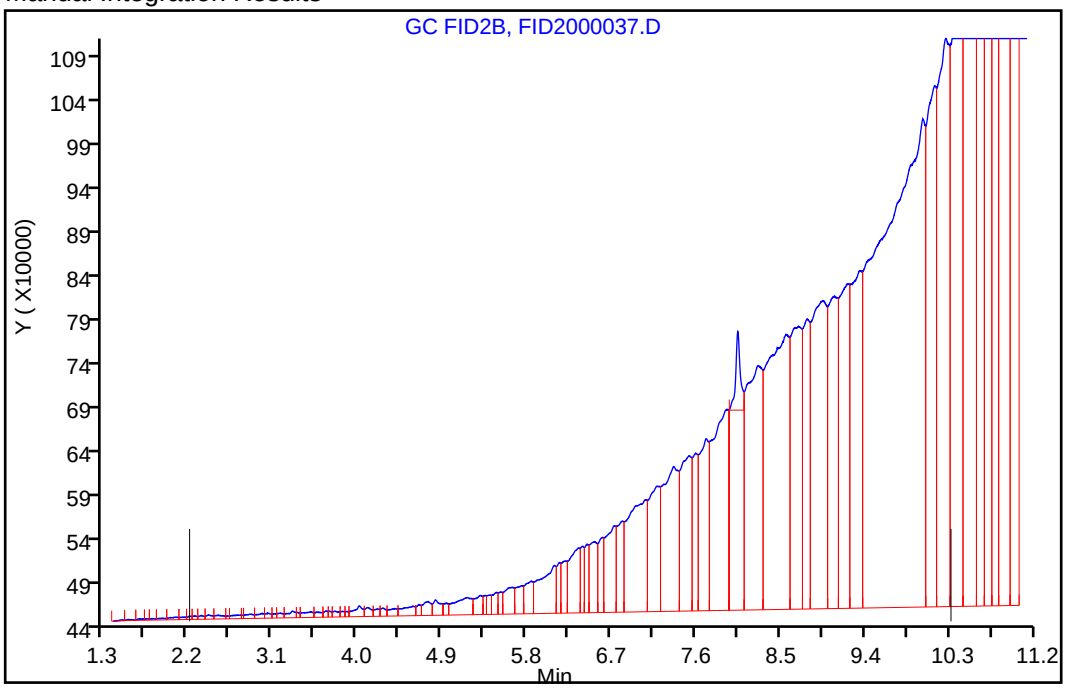
Processing Integration Results

RT:	6.26
Response:	1115491312
Amount:	564.0975



Manual Integration Results

RT:	6.26
Response:	1430908489
Amount:	723.6022



Reviewer: hayashid, 18-Jan-2019 12:57:42

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

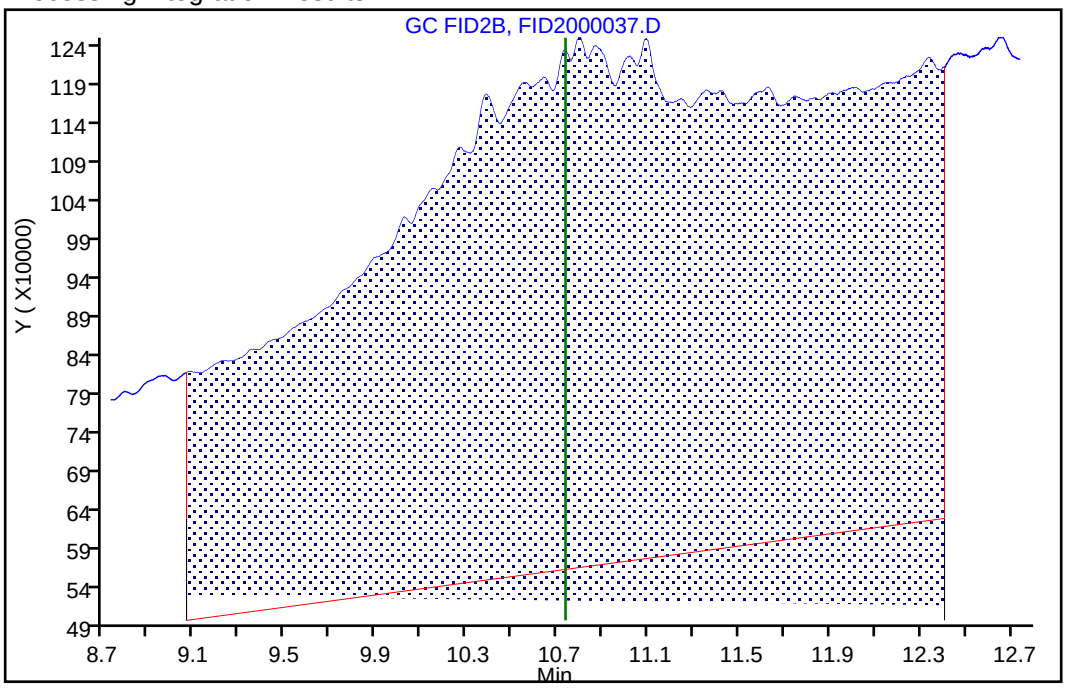
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Injection Date:	18-Jan-2019 00:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-14-C	Lab Sample ID:	720-90698-14		
Client ID:	DG-Q11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	87	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.735, CAS: STL00158

Signal: 1

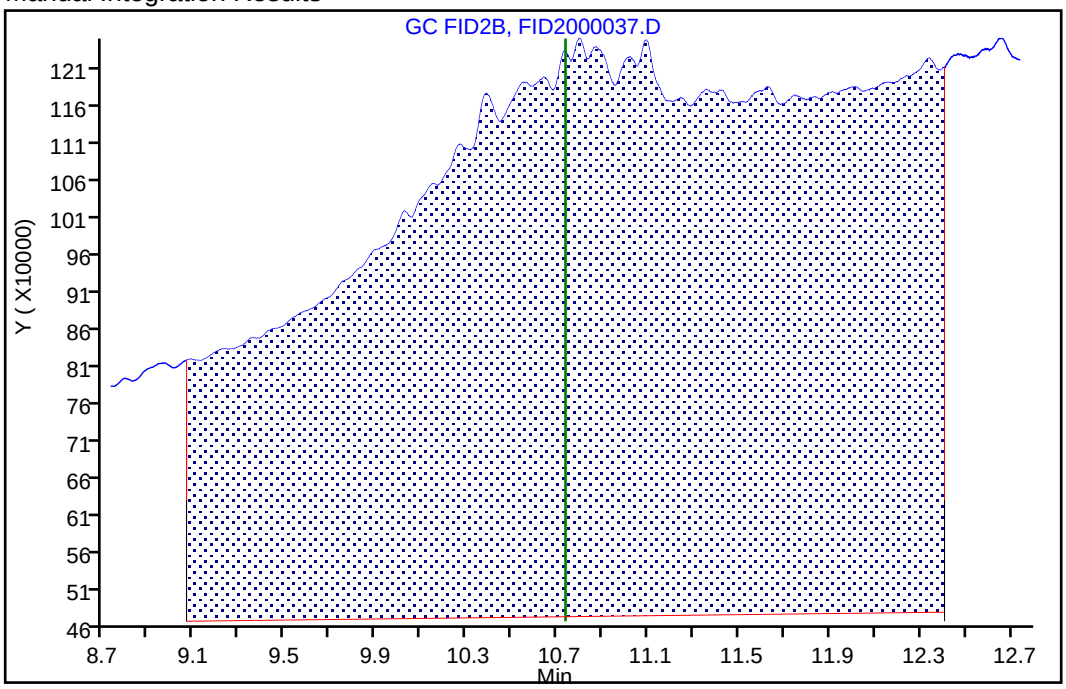
Processing Integration Results

RT: 10.73
Response: 2119274084
Amount: 1832.0048



Manual Integration Results

RT: 10.73
Response: 2487630975
Amount: 2150.4306



Reviewer: hayashid, 18-Jan-2019 12:58:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

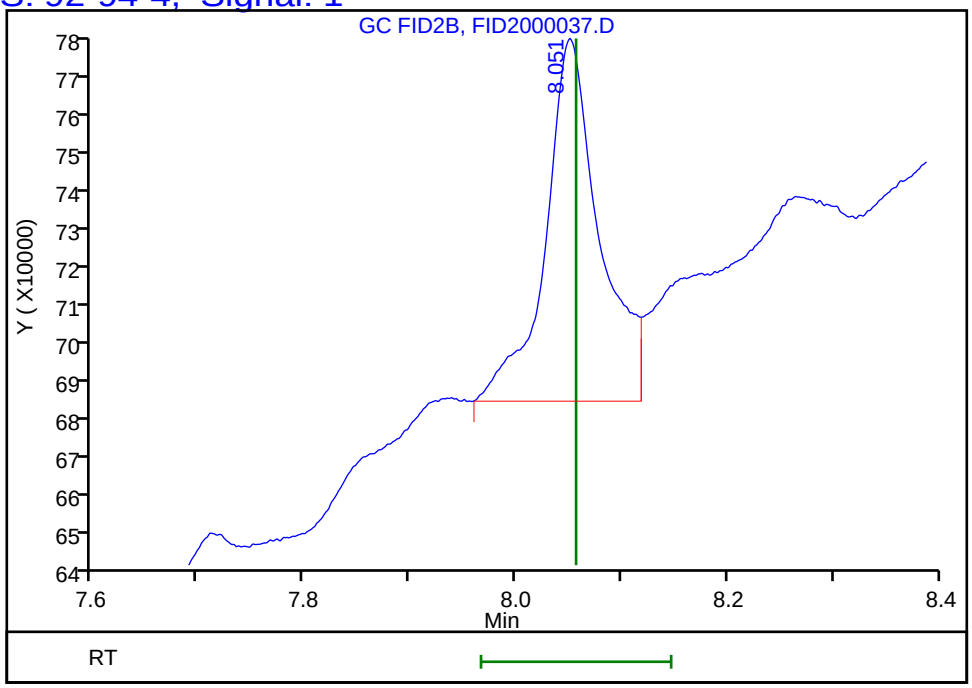
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000037.D				
Injection Date:	18-Jan-2019 00:12:01	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-14-C	Lab Sample ID:	720-90698-14		
Client ID:	DG-Q11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	87	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.05
Response: 6308827
Amount: 2.675445



Reviewer: hayashid, 18-Jan-2019 12:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000043.D
Lims ID: 720-90698-E-15-C
Client ID: DG-Q11S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 02:37:24 ALS Bottle#: 93 Worklist Smp#: 43
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: 720-0056142-043
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 13:00:52 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 13:00:52

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.350			ND	
	23 n-Decane	2.256	2.206	0.050	1196339	NC	M
A	21 Stoddard Solvent	2.808	(1.350-4.267)		20373290	8.56	M
A	1 C9-C13	2.808	(1.350-4.267)		20373290	NC	M
A	57 C10-C12	2.930	(2.206-3.655)		10518253	5.32	M
	24 Dodecane	3.718	3.655	0.063	1715530	NC	M
A	3 C9 - C17	3.834	(1.350-6.318)		94647450	33.0	M
A	60 C10-C16	4.027	(2.206-5.848)		61256317	23.9	M
A	47 C9 - C18	4.057	(1.350-6.764)		137683588	60.7	M
	26 C13	4.294	4.267	0.027	1120352	NC	M
A	25 C9-C19	4.269	(1.350-7.188)		184179784	63.8	M
A	15 Kerosene	4.269	(1.350-7.188)		184179784	81.1	M
$	27 n-Decanoic Acid (Surr)		4.620			ND	U
A	59 C12-C16	4.751	(3.655-5.848)		50738064	25.7	M
A	61 C10-C20	4.900	(2.206-7.595)		217775195	110.1	M
A	28 C9-C24	5.206	(1.350-9.061)		435491668	220.2	M
A	29 C9-C25	5.372	(1.350-9.394)		482028668	243.8	M
A	54 C10-C23	5.461	(2.206-8.716)		386791342	195.6	M
A	4 C10-C24	5.633	(2.206-9.061)		433948608	219.4	M
A	16 C10-C25	5.800	(2.206-9.394)		480485608	243.0	M
	45 Hexadecane		5.848			ND	
A	14 C10-C26	5.960	(2.206-9.714)		529661997	267.8	M
A	67 C12-C22	6.006	(3.655-8.358)		310467252	157.0	M
A	32 C10-C28	6.265	(2.206-10.323)		729781590	369.0	M
A	12 Unknown Hydrocarbons	6.265	(2.206-10.323)		729781590	NC	M
A	5 Diesel	6.265	(2.206-10.323)		729781590	369.0	M
A	30 C13-C22	6.312	(4.267-8.358)		302155275	152.8	M
	44 Heptadecane	6.352	6.318	0.034	11787754	NC	M
A	31 C12-C24	6.358	(3.655-9.061)		423430355	214.1	M
	49 n-Octadecane	6.730	6.764	-0.034	10809756	NC	M
A	52 Mineral oil	6.879	(1.350-12.409)		1484713689	645.1	M
A	11 Bunker Range Organics (C9-	6.879	(1.350-12.409)		1484713689	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.879	(1.350-12.409)		1484713689	NC	M
33 C19	7.183	7.188	-0.005	12583399	NC	M
A 64 C13-C28	7.295	(4.267-10.323)		710951360	359.5	M
A 17 C10-C36	7.307	(2.206-12.409)		1483170629	750.0	M
A 13 C9-C40	7.369	(1.350-13.388)		2592092490	1462.3	M
A 68 Crude Oil Range Organics (	7.369	(1.350-13.388)		2592092490	NC	M
A 58 C16-C24	7.454	(5.848-9.061)		372692291	188.5	M
62 icosane	7.601	7.595	0.006	10485806	NC	M
A 6 C10-C40	7.797	(2.206-13.388)		2590549430	1463.1	M
$ 34 p-Terphenyl		8.057			ND	U
35 n-Docosane	8.407	8.358	0.049	19577336	NC	M
A 18 C12-C40	8.521	(3.655-13.388)		2580031177	1462.5	M
36 Tricosane	8.648	8.716	-0.068	19899419	NC	M
A 66 C13-C40	8.827	(4.267-13.388)		2571719200	1459.1	M
37 n-Tetracosane	9.068	9.061	0.007	20119004	NC	M
A 2 C16-C36 ORO	9.128	(5.848-12.409)		1421914312	1050.1	M
38 C25		9.394			ND	
A 19 C16-C40	9.618	(5.848-13.388)		2529293113	1437.9	M
46 n-Hexacosane	9.757	9.714	0.043	54289341	NC	M
A 20 C19-C36	9.798	(7.188-12.409)		804092672	499.5	
A 55 C23-C32	10.072	(8.716-11.428)		797378775	898.9	M
39 n-Octacosane	10.258	10.323	-0.065	43560528	NC	M
65 C29	10.638	10.613	0.025	33060130	NC	M
A 7 Motor Oil	10.735	(9.061-12.409)		775515059	670.4	
A 40 C24-C36	10.735	(9.061-12.409)		1044240308	902.7	M
A 10 C22-C40	10.873	(8.358-13.388)		1033448465	638.3	
A 50 C25-C36	10.901	(9.394-12.409)		690302660	637.7	
A 41 C23-C40	11.052	(8.716-13.388)		1012415683	637.5	
A 8 C24-C40	11.225	(9.061-13.388)		1010170496	649.9	
56 Dotriacontane	11.506	11.428	0.078	18153243	NC	M
A 51 C28-C40	11.856	(10.323-13.388)		840180746	675.4	
A 63 C29-C40	12.000	(10.613-13.388)		761274744	666.6	
42 n-Hexatriacontane	12.341	12.409	-0.068	122405912	NC	M
43 C40		13.388			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

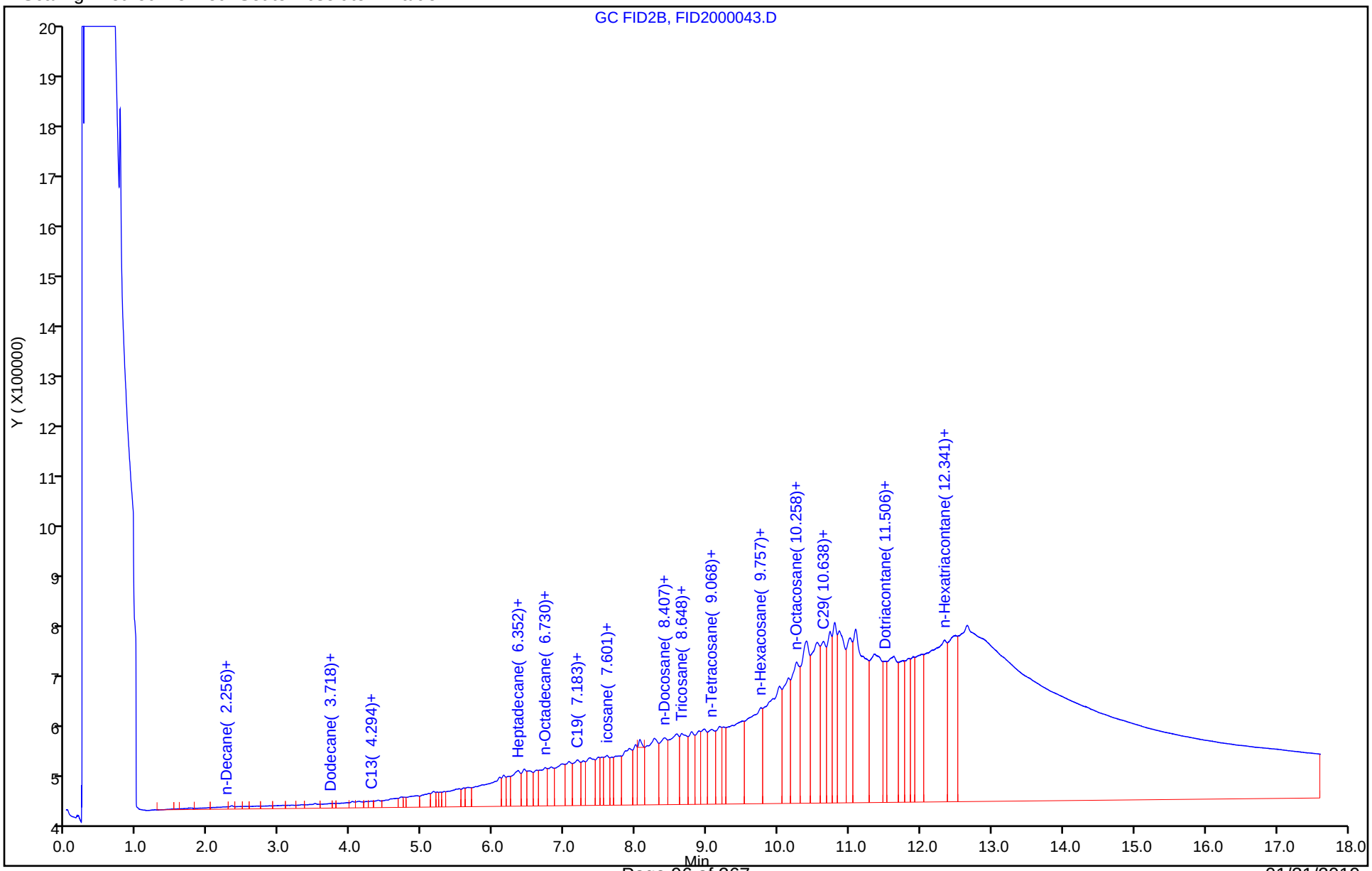
Report Date: 18-Jan-2019 13:00:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000043.D

Injection Date:	18-Jan-2019 02:37:24	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-15-C	Lab Sample ID:	720-90698-15	Worklist Smp#:	43
Client ID:	DG-Q11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	93
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

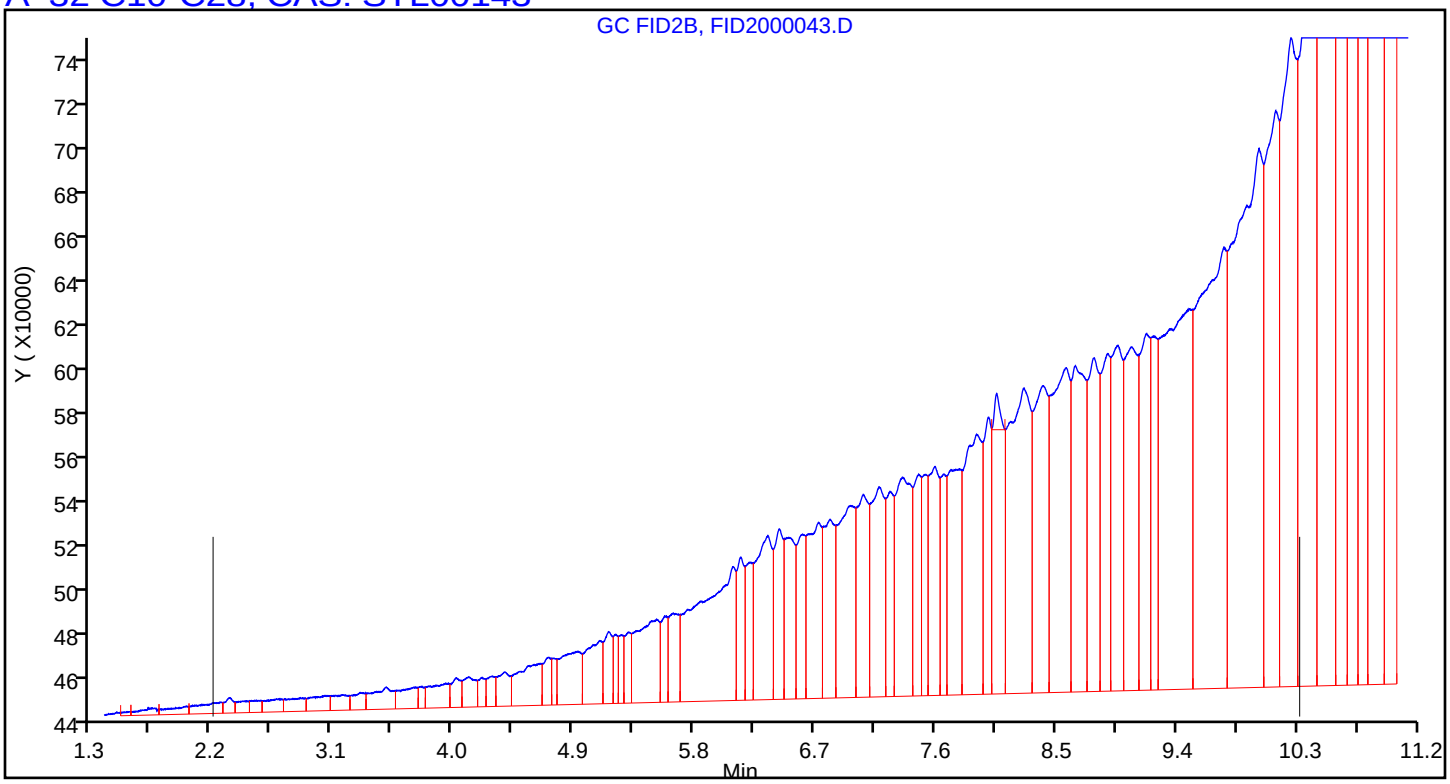


Report Date: 18-Jan-2019 13:00:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

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Injection Date:	18-Jan-2019 02:37:24	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-15-C	Lab Sample ID:	720-90698-15		
Client ID:	DG-Q11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	93	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_32 C10-C28, CAS: STL00143

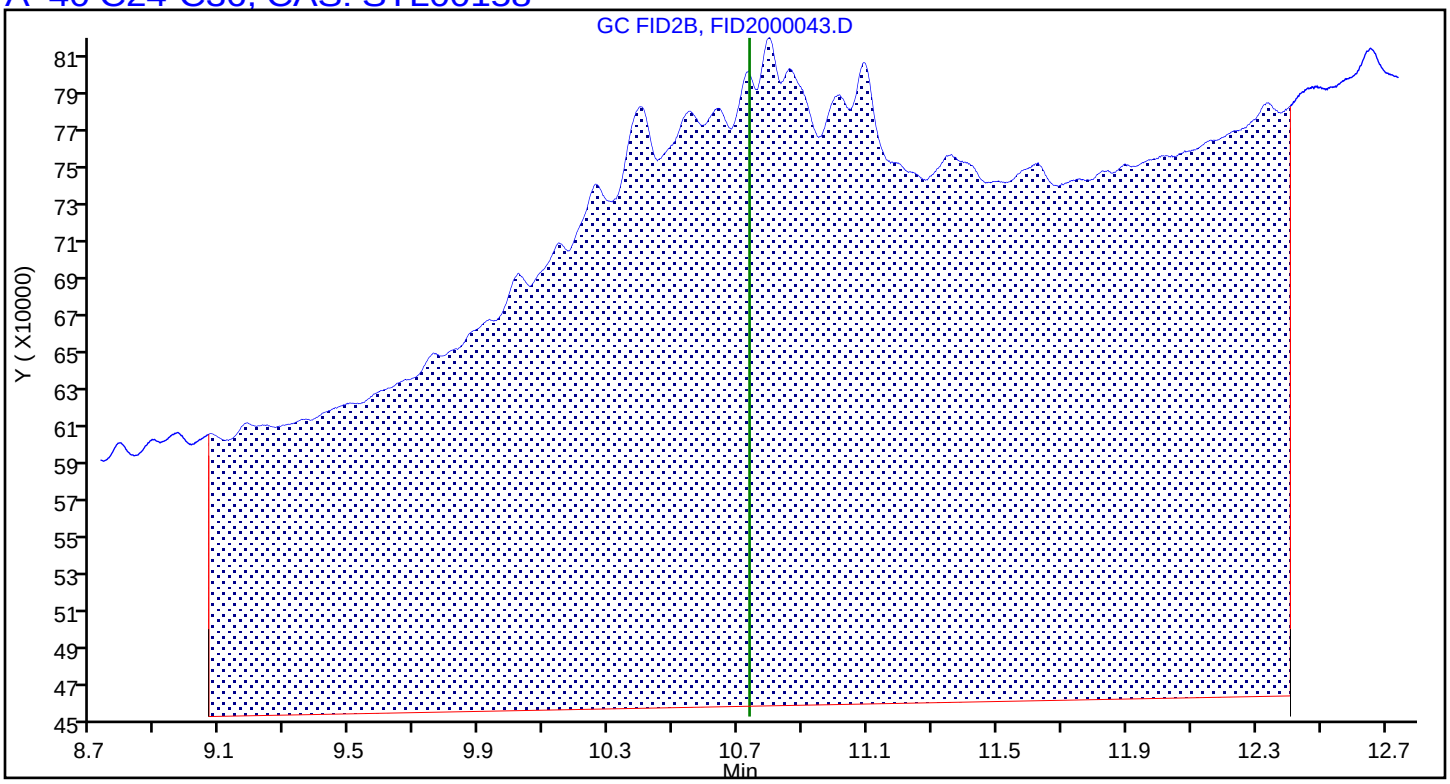


Report Date: 18-Jan-2019 13:01:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000043.D				
Injection Date:	18-Jan-2019 02:37:24	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-15-C	Lab Sample ID:	720-90698-15		
Client ID:	DG-Q11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	93	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

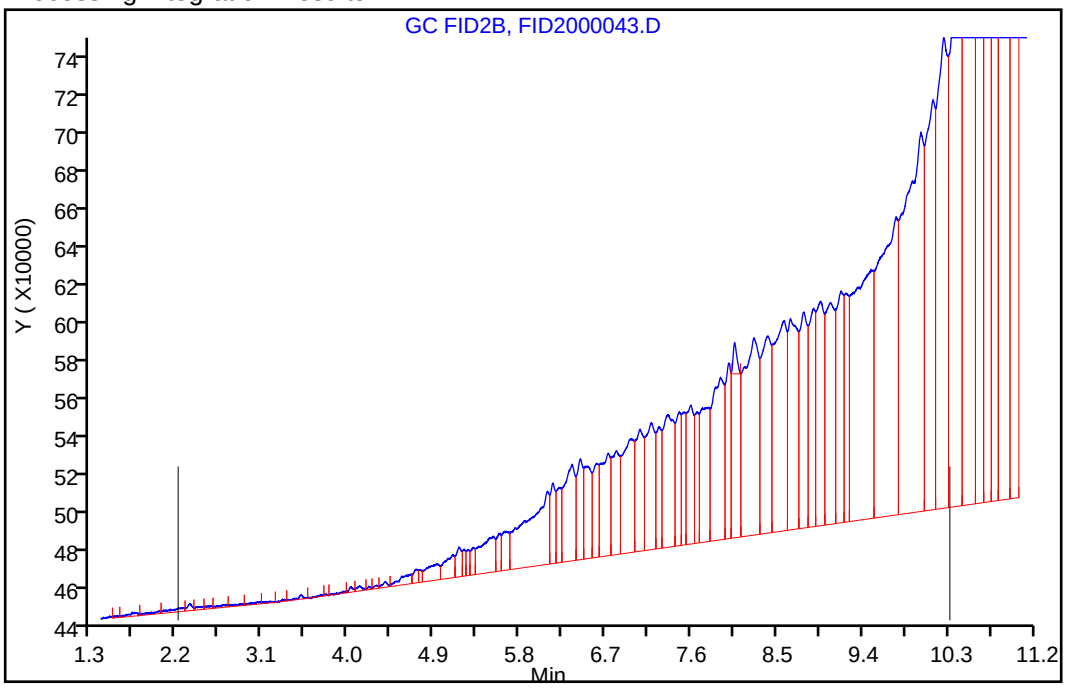
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Injection Date:	18-Jan-2019 02:37:24	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-15-C	Lab Sample ID:	720-90698-15		
Client ID:	DG-Q11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	93	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.265, CAS: STL00143

Signal: 1

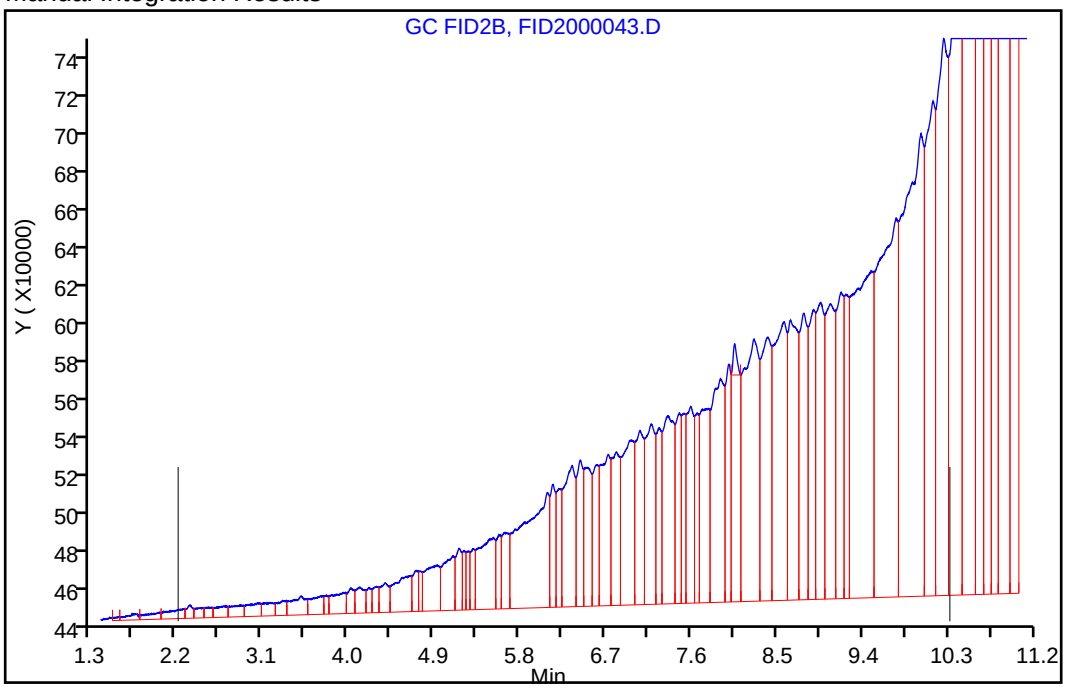
Processing Integration Results

RT: 6.26
Response: 507654260
Amount: 256.7178



Manual Integration Results

RT: 6.26
Response: 729781590
Amount: 369.0463



Reviewer: hayashid, 18-Jan-2019 13:00:28

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

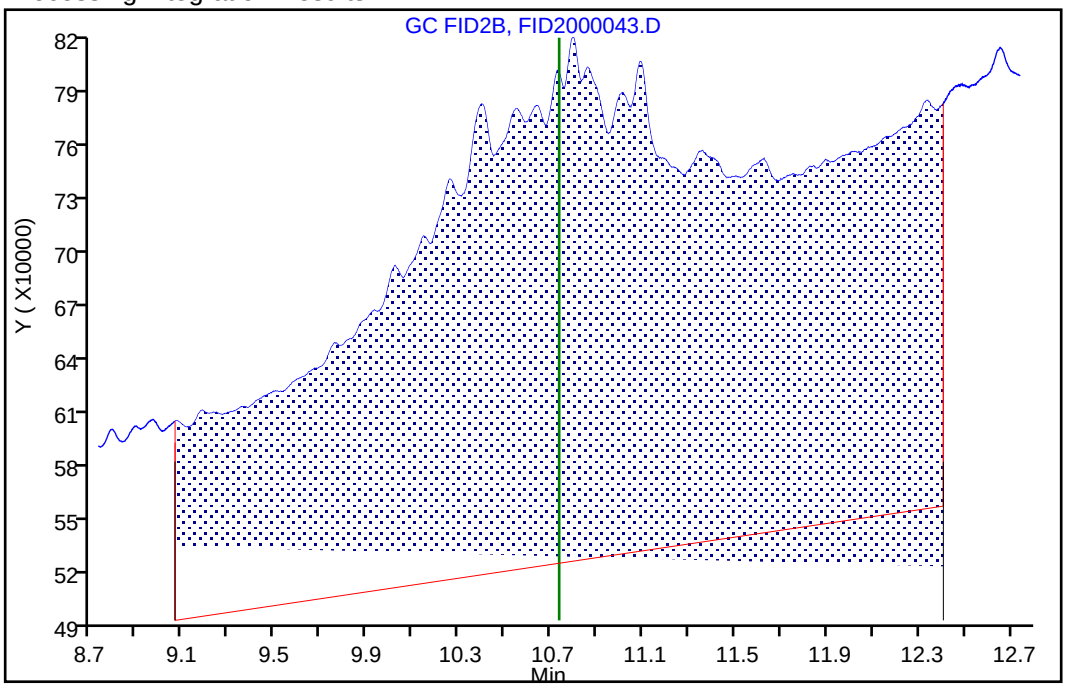
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000043.D				
Injection Date:	18-Jan-2019 02:37:24	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-15-C	Lab Sample ID:	720-90698-15		
Client ID:	DG-Q11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	93	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.735, CAS: STL00158

Signal: 1

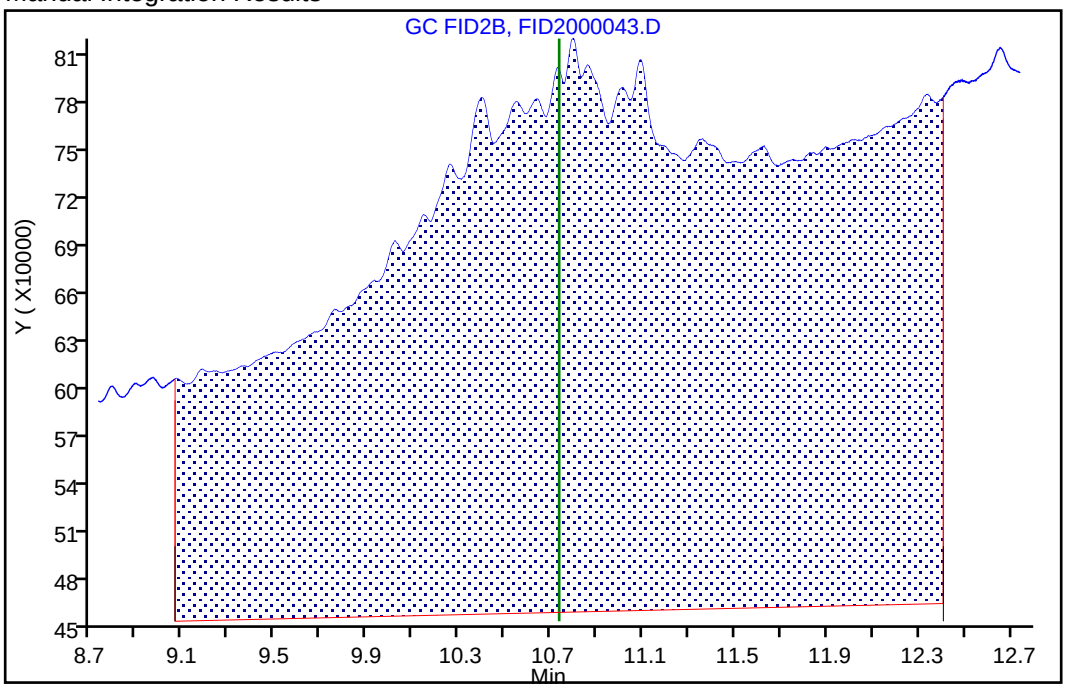
Processing Integration Results

RT: 10.73
Response: 775515059
Amount: 670.3934



Manual Integration Results

RT: 10.73
Response: 1044240308
Amount: 902.6927



Reviewer: hayashid, 18-Jan-2019 13:00:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

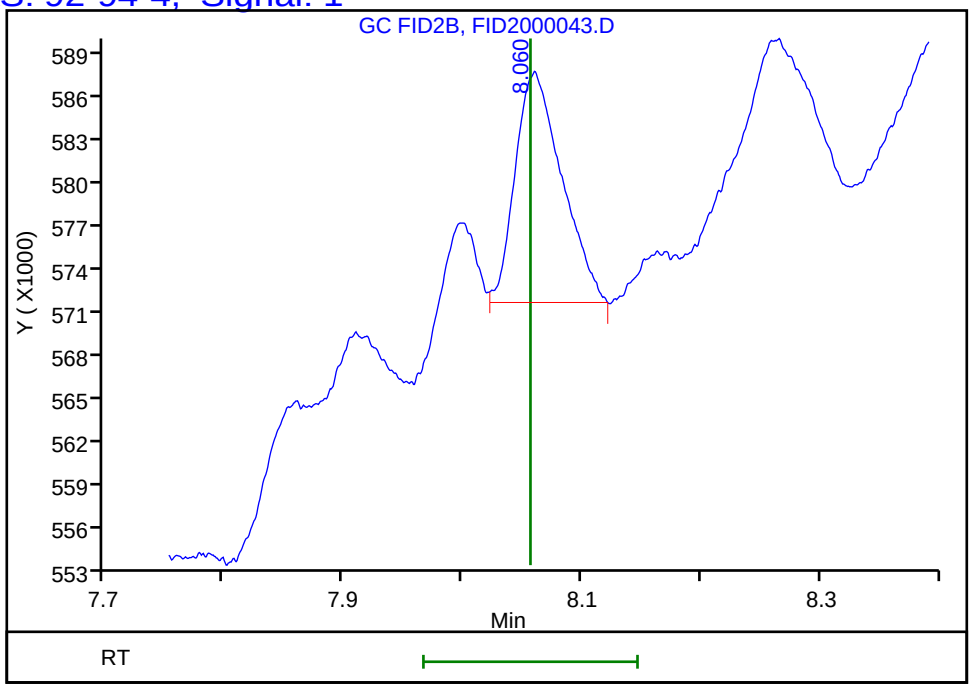
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000043.D				
Injection Date:	18-Jan-2019 02:37:24	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-15-C	Lab Sample ID:	720-90698-15		
Client ID:	DG-Q11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	93	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.06
Response: 852397
Amount: 0.361484



Reviewer: hayashid, 18-Jan-2019 13:00:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000038.D
Lims ID: 720-90698-E-16-C
Client ID: DUP-74
Sample Type: Client
Inject. Date: 18-Jan-2019 00:36:15 ALS Bottle#: 88 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 720-0056142-038
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 12:59:01 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 12:59:01

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.350			ND	
	23 n-Decane	2.224	2.206	0.018	285004	NC	M
A	21 Stoddard Solvent	2.808	(1.350-4.267)		16512967	6.93	M
A	1 C9-C13	2.808	(1.350-4.267)		16512967	NC	M
A	57 C10-C12	2.930	(2.206-3.655)		8947756	4.52	M
	24 Dodecane	3.662	3.655	0.007	425658	NC	M
A	3 C9 - C17	3.834	(1.350-6.318)		83887549	29.2	M
A	60 C10-C16	4.027	(2.206-5.848)		53251375	20.8	M
A	47 C9 - C18	4.057	(1.350-6.764)		138534713	61.1	M
	26 C13	4.267	4.267	0.000	1021600	NC	M
A	25 C9-C19	4.269	(1.350-7.188)		210721719	73.0	M
A	15 Kerosene	4.269	(1.350-7.188)		210721719	92.7	M
$	27 n-Decanoic Acid (Surr)		4.620			ND	U
A	59 C12-C16	4.751	(3.655-5.848)		44303619	22.4	M
A	61 C10-C20	4.900	(2.206-7.595)		276235873	139.7	M
A	28 C9-C24	5.206	(1.350-9.061)		737951554	373.2	M
A	29 C9-C25	5.372	(1.350-9.394)		895935047	453.1	M
A	54 C10-C23	5.461	(2.206-8.716)		630066968	318.6	M
A	4 C10-C24	5.633	(2.206-9.061)		736430348	372.4	M
A	16 C10-C25	5.800	(2.206-9.394)		894413841	452.3	M
	45 Hexadecane	5.848	5.848	0.000	5354854	NC	M
A	14 C10-C26	5.960	(2.206-9.714)		894413841	452.3	M
A	67 C12-C22	6.006	(3.655-8.358)		473293692	239.3	M
A	32 C10-C28	6.265	(2.206-10.323)		1424555561	720.4	M
A	12 Unknown Hydrocarbons	6.265	(2.206-10.323)		1424555561	NC	M
A	5 Diesel	6.265	(2.206-10.323)		1424555561	720.4	M
A	30 C13-C22	6.312	(4.267-8.358)		467249687	236.3	M
	44 Heptadecane	6.352	6.318	0.034	13706066	NC	M
A	31 C12-C24	6.358	(3.655-9.061)		727482592	367.9	M
	49 n-Octadecane	6.731	6.764	-0.033	15391843	NC	M
A	52 Mineral oil	6.879	(1.350-12.409)		3116495169	1354.1	M
A	11 Bunker Range Organics (C9-	6.879	(1.350-12.409)		3116495169	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.879	(1.350-12.409)		3116495169	NC	M
33 C19	7.187	7.188	-0.001	23793272	NC	M
A 64 C13-C28	7.295	(4.267-10.323)		1409563800	712.8	M
A 17 C10-C36	7.307	(2.206-12.409)		3114973963	1575.2	M
A 13 C9-C40	7.369	(1.350-13.388)		5239537006	2955.9	M
A 68 Crude Oil Range Organics (	7.369	(1.350-13.388)		5239537006	NC	M
A 58 C16-C24	7.454	(5.848-9.061)		683178973	345.5	M
62 icosane	7.600	7.595	0.005	15183562	NC	M
A 6 C10-C40	7.797	(2.206-13.388)		5238015800	2958.3	M
$ 34 p-Terphenyl		8.057			ND	U
35 n-Docosane	8.266	8.358	-0.092	62736064	NC	M
A 18 C12-C40	8.521	(3.655-13.388)		5229068044	2964.1	M
36 Tricosane	8.702	8.716	-0.014	22967328	NC	M
A 66 C13-C40	8.827	(4.267-13.388)		5223024039	2963.3	M
37 n-Tetracosane	9.078	9.061	0.017	45611009	NC	M
A 2 C16-C36 ORO	9.128	(5.848-12.409)		3061722588	2261.2	M
38 C25	9.356	9.394	-0.038	55368606	NC	M
A 19 C16-C40	9.618	(5.848-13.388)		5184764425	2947.6	M
46 n-Hexacosane		9.714			ND	
A 20 C19-C36	9.798	(7.188-12.409)		2168314547	1346.8	
A 55 C23-C32	10.072	(8.716-11.428)		1765088340	1989.8	M
39 n-Octacosane	10.263	10.323	-0.060	102916855	NC	M
65 C29	10.640	10.613	0.027	73011251	NC	M
A 7 Motor Oil	10.735	(9.061-12.409)		1974250628	1706.6	
A 40 C24-C36	10.735	(9.061-12.409)		2355005990	2035.8	M
A 10 C22-C40	10.873	(8.358-13.388)		2647356578	1635.2	
A 50 C25-C36	10.901	(9.394-12.409)		1777571458	1642.1	
A 41 C23-C40	11.052	(8.716-13.388)		2574457137	1621.1	
A 8 C24-C40	11.225	(9.061-13.388)		2537271588	1632.5	
56 Dotriacontane	11.417	11.428	-0.011	64481652	NC	M
A 51 C28-C40	11.856	(10.323-13.388)		2044466380	1643.6	
A 63 C29-C40	12.000	(10.613-13.388)		1854669960	1624.1	
42 n-Hexatriacontane	12.472	12.409	0.063	108594883	NC	M
43 C40		13.388			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

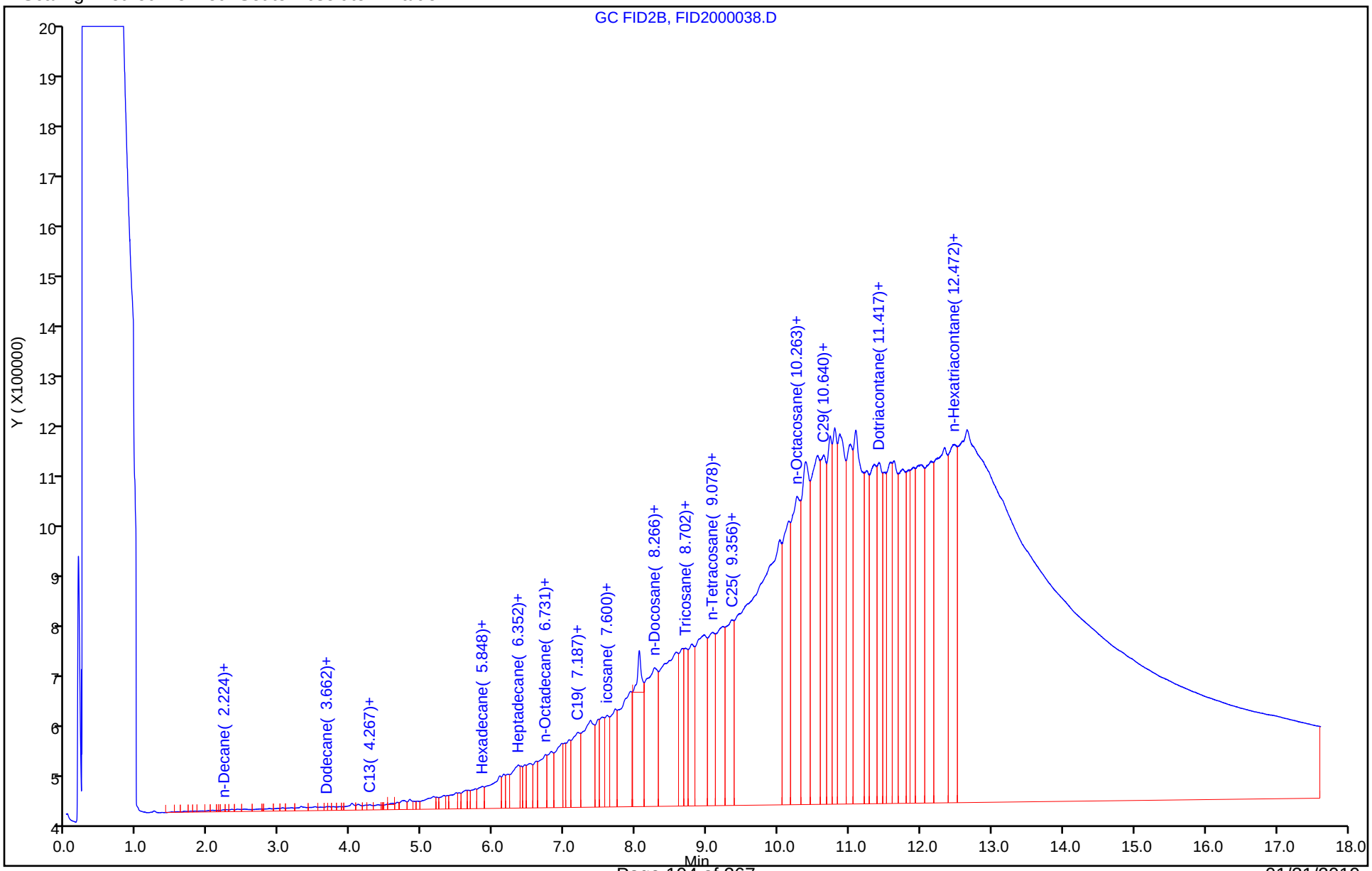
Report Date: 18-Jan-2019 12:59:02 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000038.D

Injection Date:	18-Jan-2019 00:36:15	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-16-C	Lab Sample ID:	720-90698-16	Worklist Smp#:	38
Client ID:	DUP-74				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	88
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

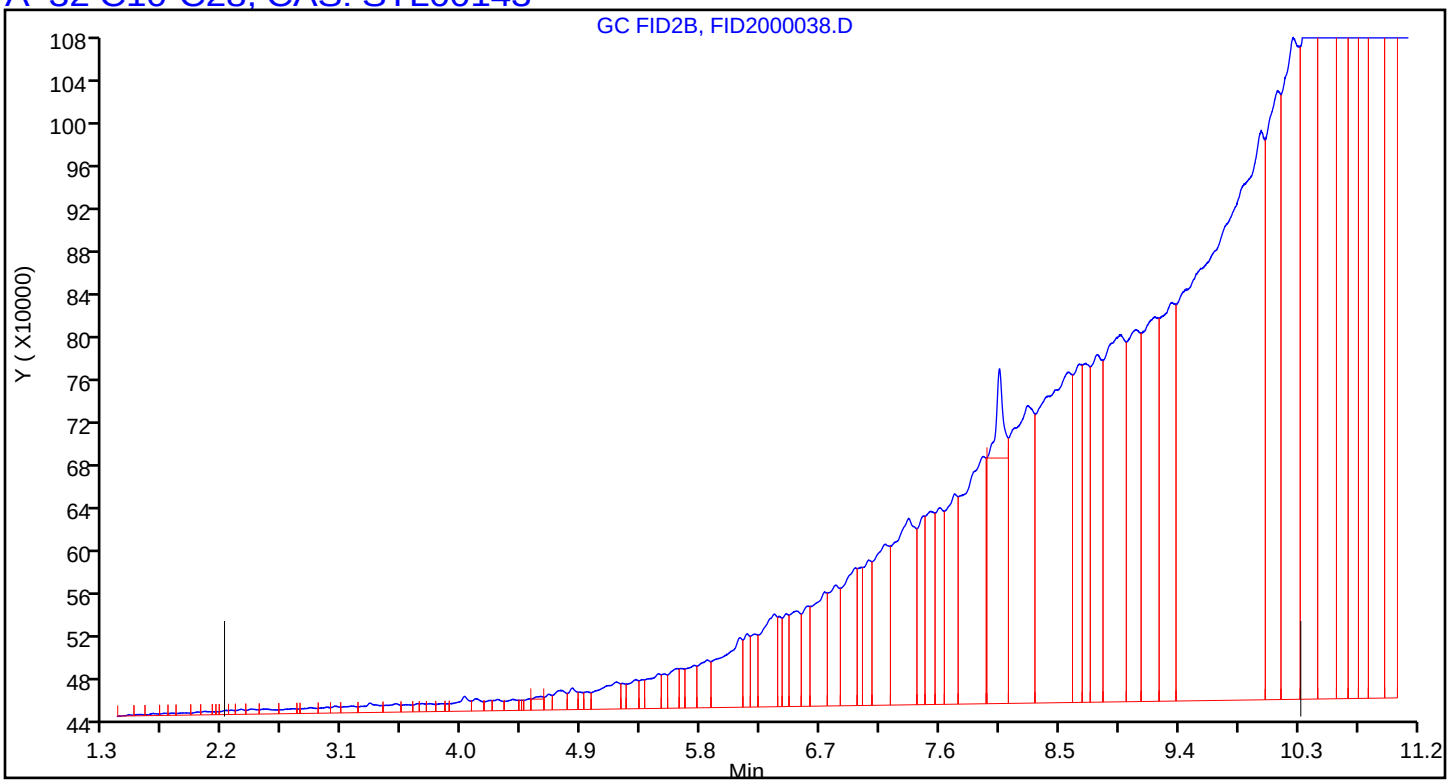


Report Date: 18-Jan-2019 12:59:05 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000038.D				
Injection Date:	18-Jan-2019 00:36:15	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-16-C	Lab Sample ID:	720-90698-16		
Client ID:	DUP-74				
Operator ID:	RLU	ALS Bottle#:	88	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

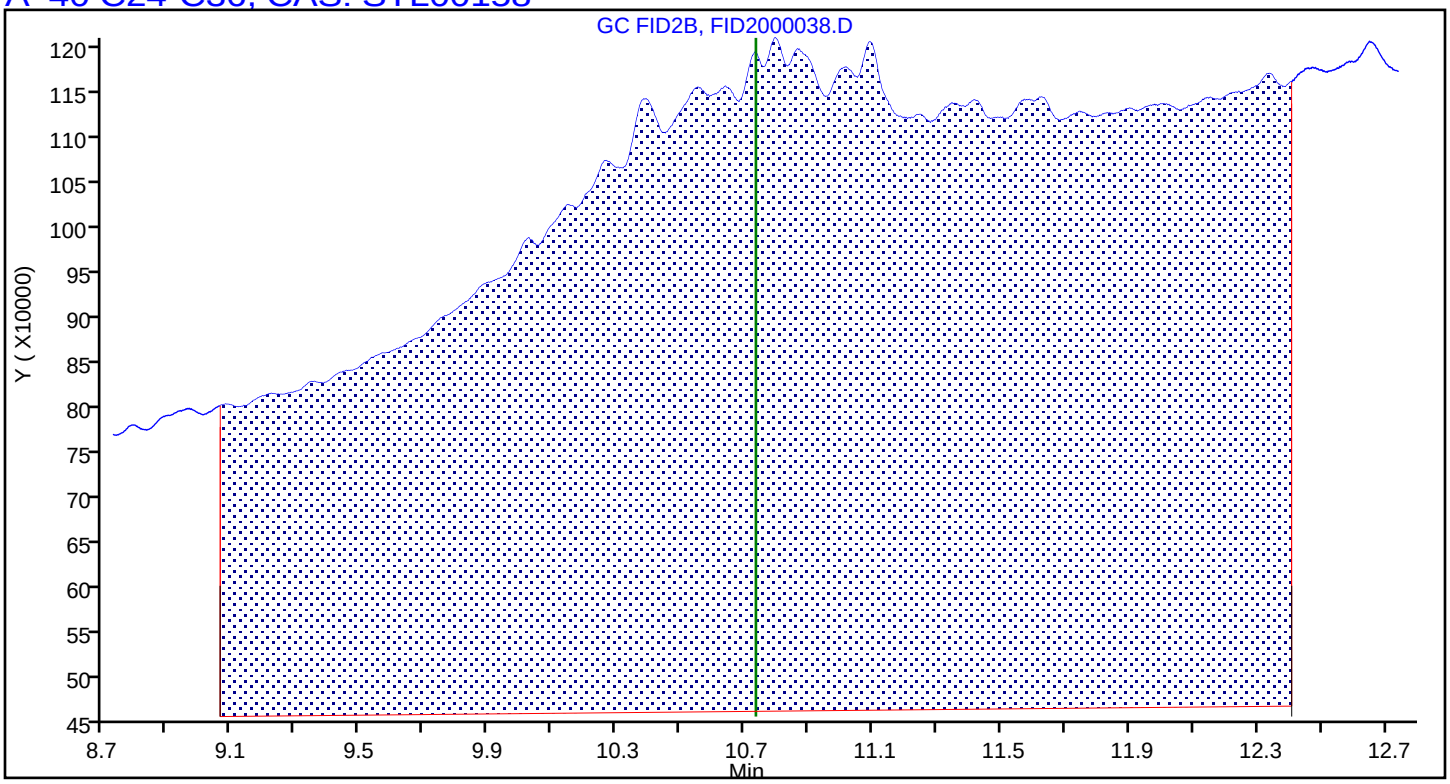


Report Date: 18-Jan-2019 12:59:08 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000038.D				
Injection Date:	18-Jan-2019 00:36:15	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-16-C	Lab Sample ID:	720-90698-16		
Client ID:	DUP-74				
Operator ID:	RLU	ALS Bottle#:	88	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

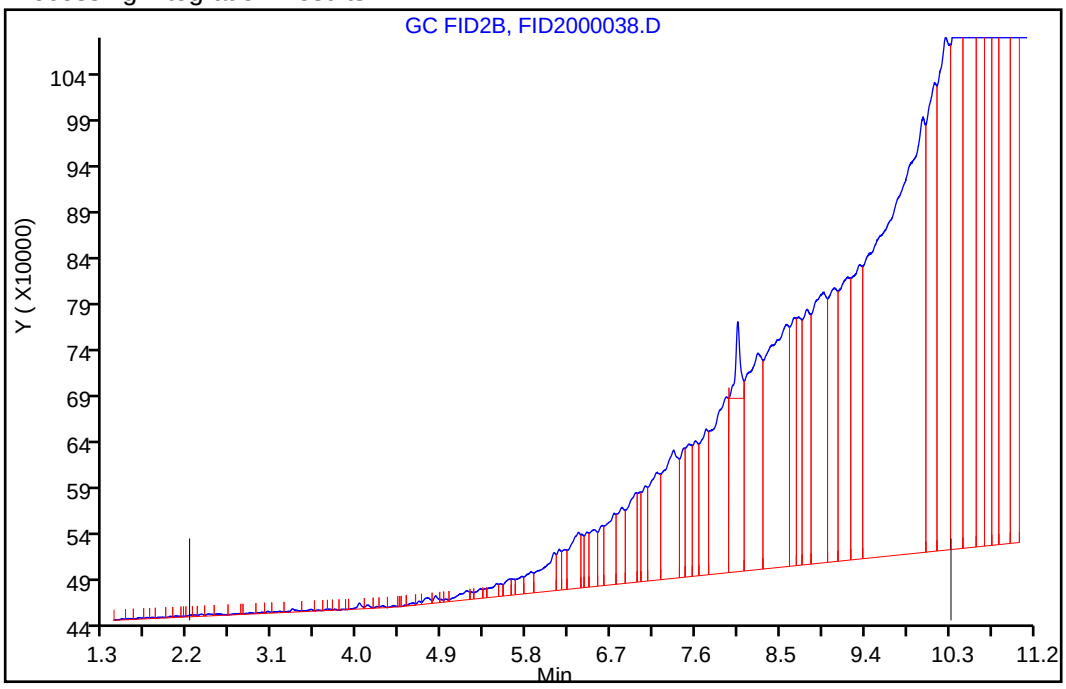
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000038.D				
Injection Date:	18-Jan-2019 00:36:15	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-16-C	Lab Sample ID:	720-90698-16		
Client ID:	DUP-74				
Operator ID:	RLU	ALS Bottle#:	88	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.265, CAS: STL00143

Signal: 1

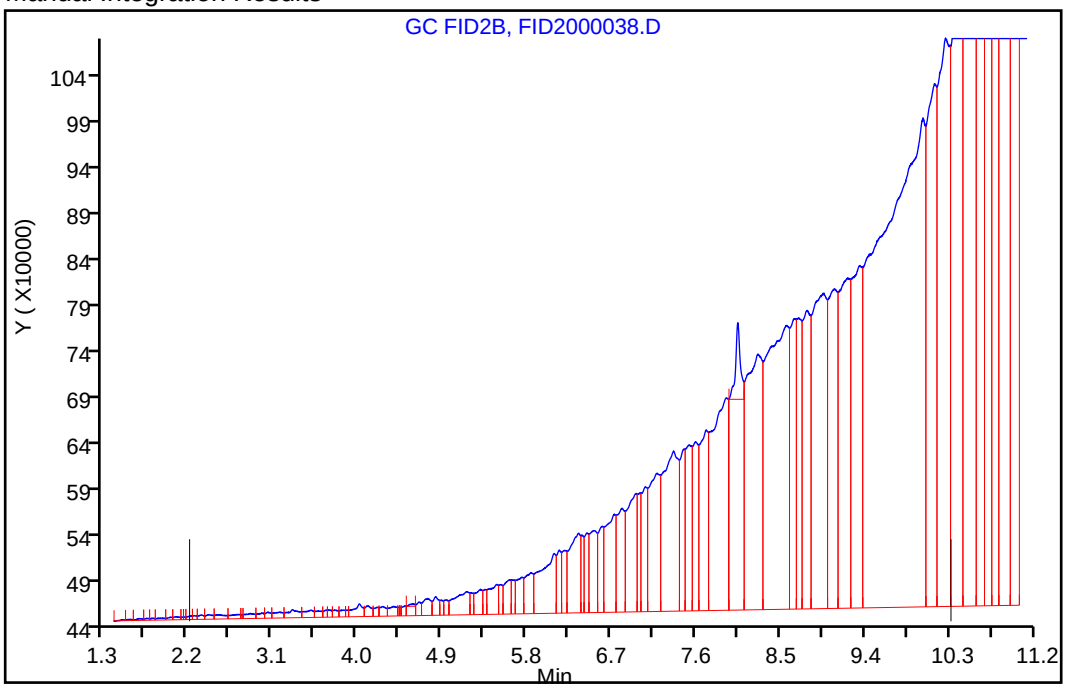
Processing Integration Results

RT: 6.26
Response: 1154982514
Amount: 584.0680



Manual Integration Results

RT: 6.26
Response: 1424555561
Amount: 720.3895



Reviewer: hayashid, 18-Jan-2019 12:58:38

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

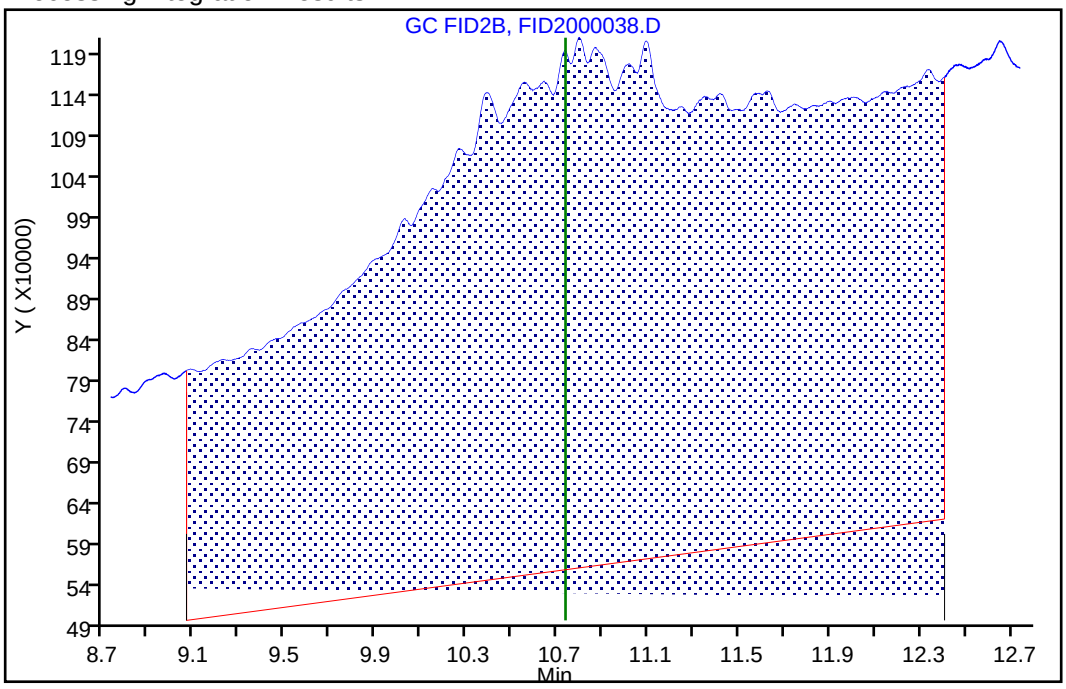
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000038.D				
Injection Date:	18-Jan-2019 00:36:15	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-16-C	Lab Sample ID:	720-90698-16		
Client ID:	DUP-74				
Operator ID:	RLU	ALS Bottle#:	88	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.735, CAS: STL00158

Signal: 1

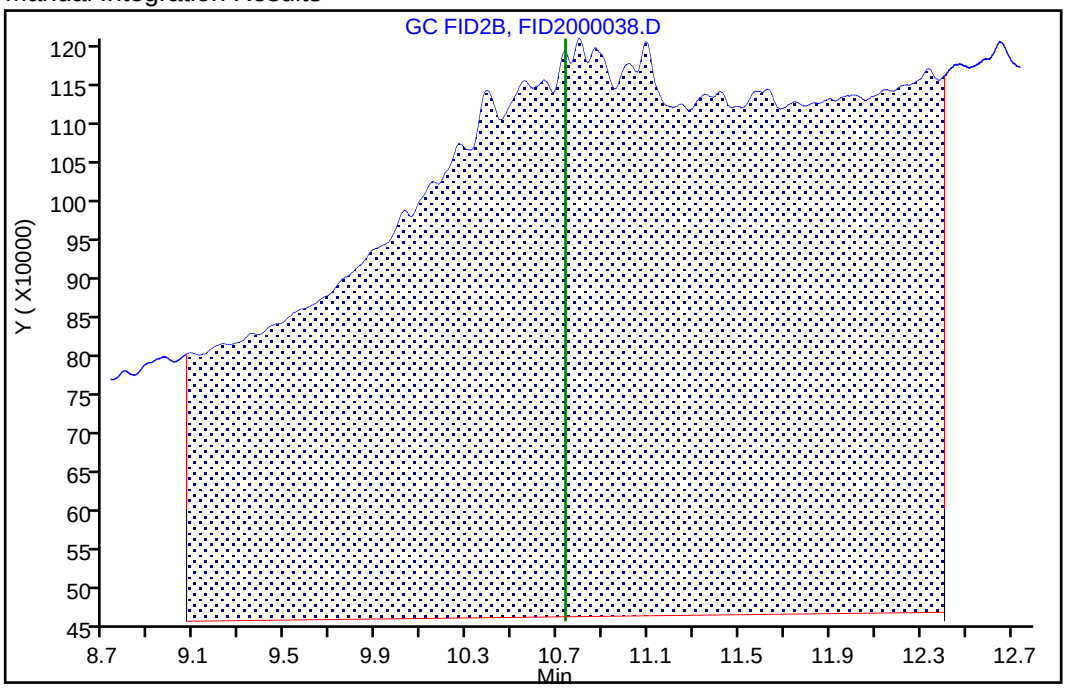
Processing Integration Results

RT: 10.73
Response: 1974250628
Amount: 1706.6394



Manual Integration Results

RT: 10.73
Response: 2355005990
Amount: 2035.7831



Reviewer: hayashid, 18-Jan-2019 12:58:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

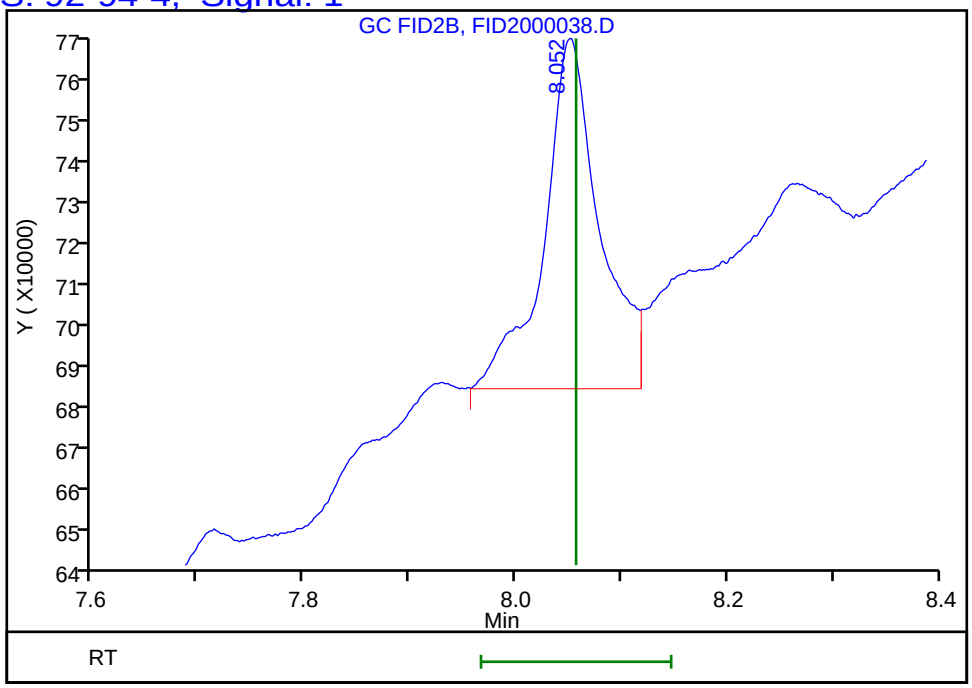
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000038.D				
Injection Date:	18-Jan-2019 00:36:15	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-16-C	Lab Sample ID:	720-90698-16		
Client ID:	DUP-74				
Operator ID:	RLU	ALS Bottle#:	88	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.05
Response: 6021059
Amount: 2.553408



Reviewer: hayashid, 18-Jan-2019 12:58:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000036.D
Lims ID: 720-90698-E-17-C
Client ID: DG-S11S-0.5-1
Sample Type: Client
Inject. Date: 17-Jan-2019 23:47:39 ALS Bottle#: 86 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 720-0056142-036
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 12:57:12 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 12:57:12

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.349	1.350	-0.001	10336	NC	
	23 n-Decane		2.206			ND	
A	21 Stoddard Solvent	2.808	(1.350-4.267)		8313306	3.49	M
A	1 C9-C13	2.808	(1.350-4.267)		8313306	NC	M
A	57 C10-C12	2.930	(2.206-3.655)		4217269	2.13	M
	24 Dodecane	3.658	3.655	0.003	493662	NC	M
A	3 C9 - C17	3.834	(1.350-6.318)		53728764	18.7	M
A	60 C10-C16	4.027	(2.206-5.848)		32571851	12.7	M
A	47 C9 - C18	4.057	(1.350-6.764)		74647324	32.9	M
	26 C13	4.283	4.267	0.016	358661	NC	M
A	25 C9-C19	4.269	(1.350-7.188)		105551888	36.5	M
A	15 Kerosene	4.269	(1.350-7.188)		105551888	46.4	M
$	27 n-Decanoic Acid (Surr)		4.620			ND	MU
A	59 C12-C16	4.751	(3.655-5.848)		28354582	14.3	M
A	61 C10-C20	4.900	(2.206-7.595)		125605948	63.5	M
A	28 C9-C24	5.206	(1.350-9.061)		287901641	145.6	M
A	29 C9-C25	5.372	(1.350-9.394)		339525558	171.7	M
A	54 C10-C23	5.461	(2.206-8.716)		255120165	129.0	M
A	4 C10-C24	5.633	(2.206-9.061)		287338862	145.3	M
A	16 C10-C25	5.800	(2.206-9.394)		338962779	171.4	M
	45 Hexadecane	5.848	5.848	0.000	2601560	NC	M
A	14 C10-C26	5.960	(2.206-9.714)		386786160	195.6	M
A	67 C12-C22	6.006	(3.655-8.358)		201083804	101.7	M
A	32 C10-C28	6.265	(2.206-10.323)		507506679	256.6	M
A	12 Unknown Hydrocarbons	6.265	(2.206-10.323)		507506679	NC	M
A	5 Diesel	6.265	(2.206-10.323)		507506679	256.6	M
A	30 C13-C22	6.312	(4.267-8.358)		197550546	99.9	M
	44 Heptadecane	6.318	6.318	0.000	6912332	NC	M
A	31 C12-C24	6.358	(3.655-9.061)		283121593	143.2	M
	49 n-Octadecane	6.730	6.764	-0.034	3140300	NC	M
A	52 Mineral oil	6.879	(1.350-12.409)		965771225	419.6	M
A	11 Bunker Range Organics (C9-	6.879	(1.350-12.409)		965771225	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.879	(1.350-12.409)		965771225	NC	M
33 C19	7.185	7.188	-0.003	8951079	NC	M
A 64 C13-C28	7.295	(4.267-10.323)		499756152	252.7	M
A 17 C10-C36	7.307	(2.206-12.409)		965208446	488.1	M
A 13 C9-C40	7.369	(1.350-13.388)		2590926111	1461.7	M
A 68 Crude Oil Range Organics (	7.369	(1.350-13.388)		2590926111	NC	M
A 58 C16-C24	7.454	(5.848-9.061)		254767011	128.8	M
62 icosane	7.602	7.595	0.007	11826556	NC	M
A 6 C10-C40	7.797	(2.206-13.388)		2590363332	1463.0	M
$ 34 p-Terphenyl		8.057			ND	U
35 n-Docosane	8.428	8.358	0.070	13284349	NC	M
A 18 C12-C40	8.521	(3.655-13.388)		2586146063	1466.0	M
36 Tricosane	8.701	8.716	-0.015	10282652	NC	M
A 66 C13-C40	8.827	(4.267-13.388)		2582612805	1465.3	M
37 n-Tetracosane	9.070	9.061	0.009	16530337	NC	M
A 2 C16-C36 ORO	9.128	(5.848-12.409)		932636595	688.8	M
38 C25	9.336	9.394	-0.058	17095130	NC	M
A 19 C16-C40	9.618	(5.848-13.388)		2557791481	1454.1	M
46 n-Hexacosane	9.667	9.714	-0.047	47823381	NC	M
A 20 C19-C36	9.798	(7.188-12.409)		463537595	287.9	
A 55 C23-C32	10.072	(8.716-11.428)		549951986	620.0	M
39 n-Octacosane	10.265	10.323	-0.058	28837735	NC	M
65 C29	10.644	10.613	0.031	23199235	NC	M
A 7 Motor Oil	10.735	(9.061-12.409)		522847543	452.0	
A 40 C24-C36	10.735	(9.061-12.409)		850377655	735.1	M
A 10 C22-C40	10.873	(8.358-13.388)		819773267	506.4	
A 50 C25-C36	10.901	(9.394-12.409)		459792802	424.7	
A 41 C23-C40	11.052	(8.716-13.388)		820764630	516.8	
A 8 C24-C40	11.225	(9.061-13.388)		860640713	553.7	
56 Dotriacontane	11.430	11.428	0.002	24847105	NC	M
A 51 C28-C40	11.856	(10.323-13.388)		780870358	627.7	
A 63 C29-C40	12.000	(10.613-13.388)		740506700	648.5	
42 n-Hexatriacontane		12.409			ND	
43 C40		13.388			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

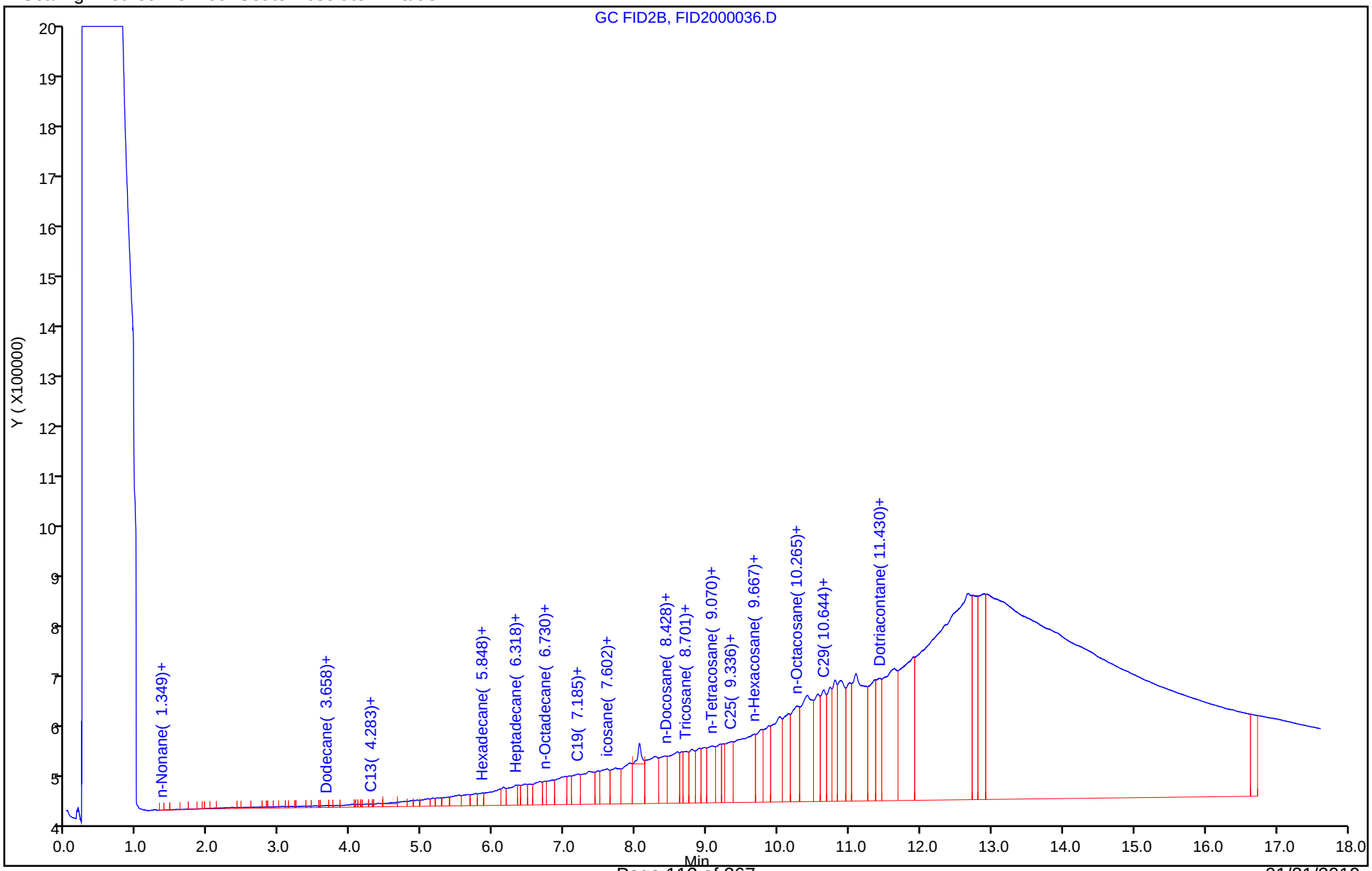
Report Date: 18-Jan-2019 12:57:13 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000036.D

Injection Date:	17-Jan-2019 23:47:39	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-17-C	Lab Sample ID:	720-90698-17	Worklist Smp#:	36
Client ID:	DG-S11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	86
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

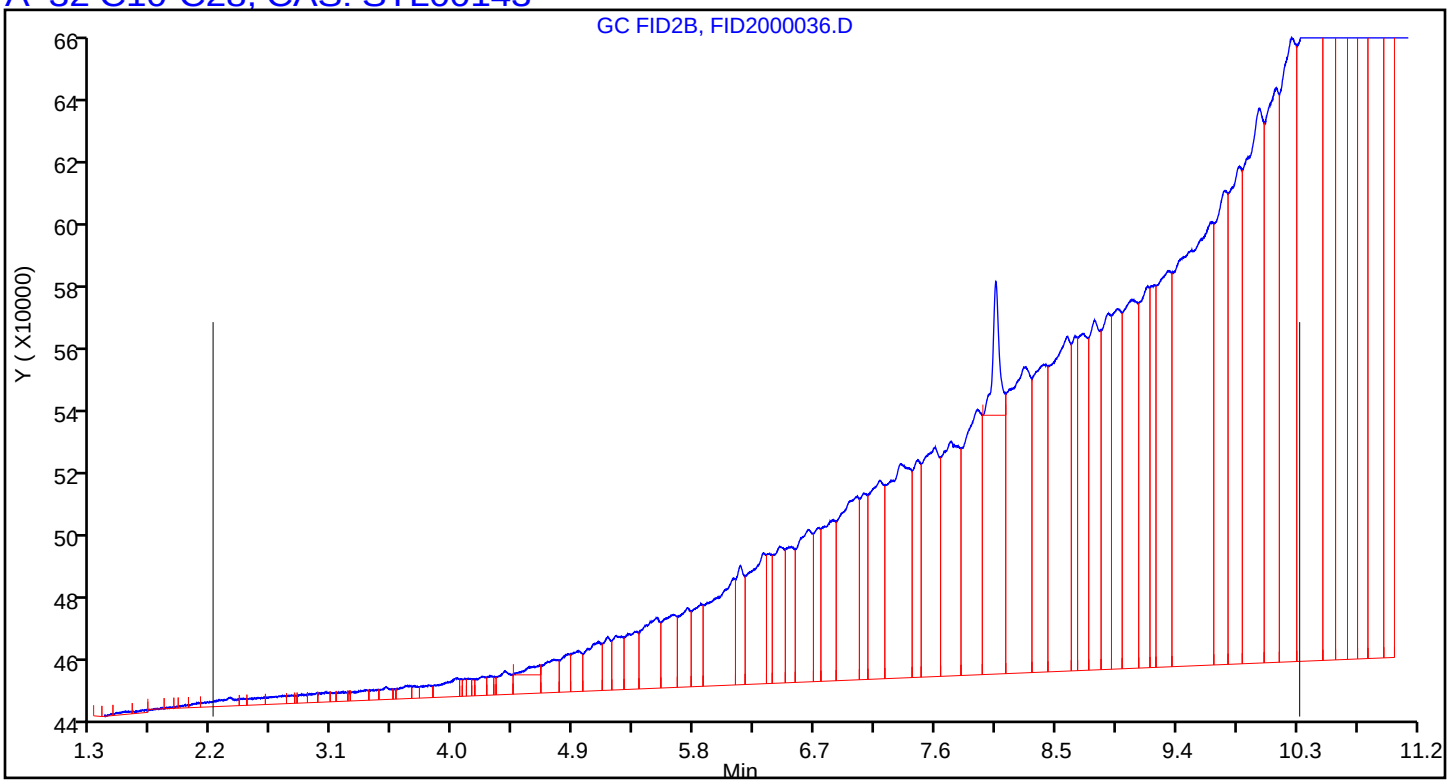


Report Date: 18-Jan-2019 12:57:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000036.D				
Injection Date:	17-Jan-2019 23:47:39	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-17-C	Lab Sample ID:	720-90698-17		
Client ID:	DG-S11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

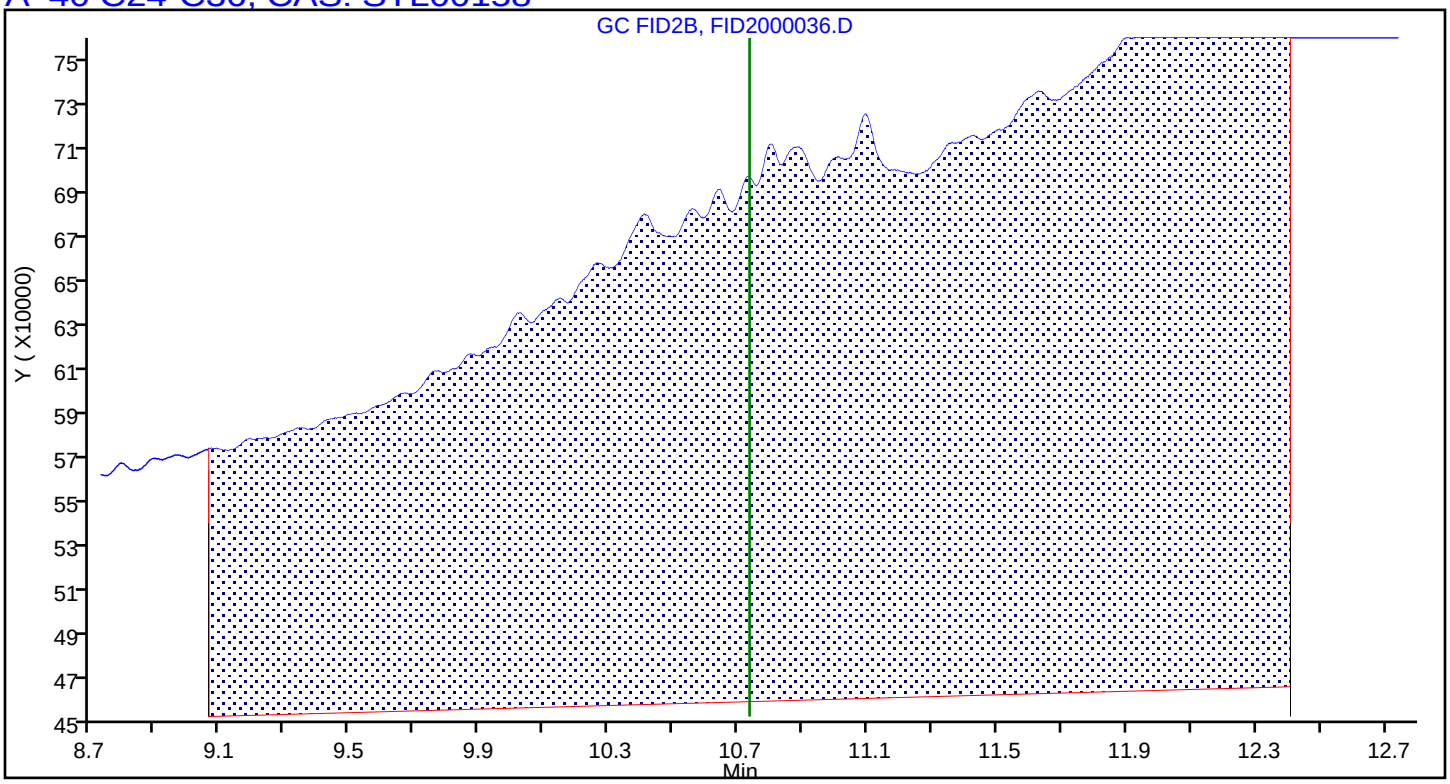


Report Date: 18-Jan-2019 12:57:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000036.D				
Injection Date:	17-Jan-2019 23:47:39	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-17-C	Lab Sample ID:	720-90698-17		
Client ID:	DG-S11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

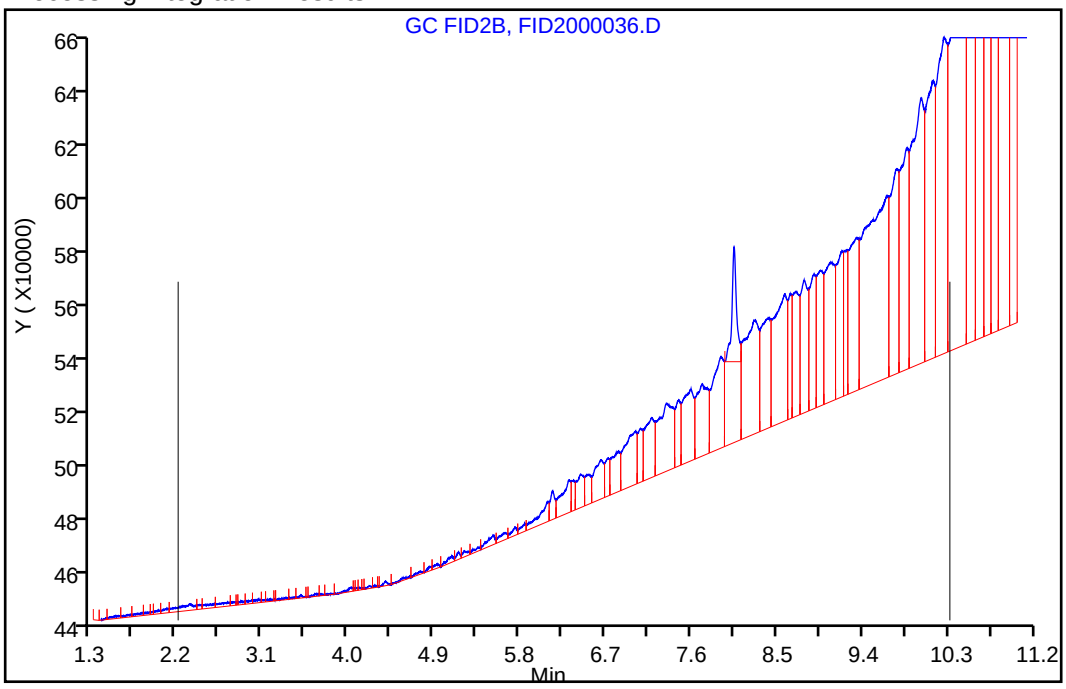
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000036.D				
Injection Date:	17-Jan-2019 23:47:39	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-17-C	Lab Sample ID:	720-90698-17		
Client ID:	DG-S11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.265, CAS: STL00143

Signal: 1

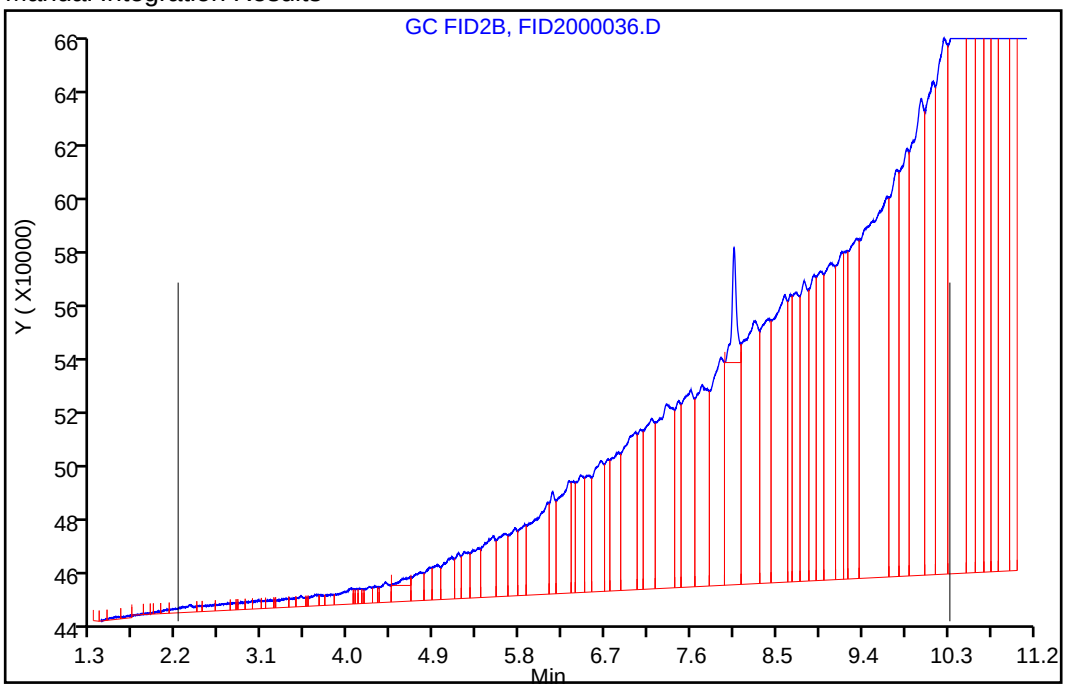
Processing Integration Results

RT: 6.26
Response: 201803761
Amount: 102.0510



Manual Integration Results

RT: 6.26
Response: 507506679
Amount: 256.6432



Reviewer: hayashid, 18-Jan-2019 12:56:26

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

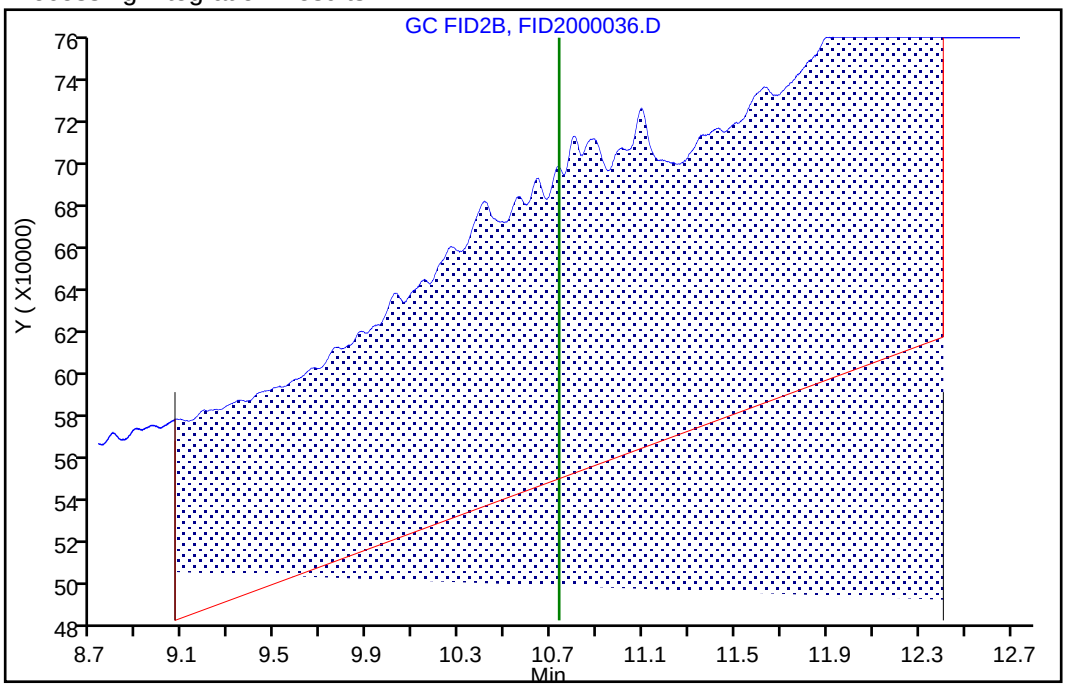
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000036.D				
Injection Date:	17-Jan-2019 23:47:39	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-17-C	Lab Sample ID:	720-90698-17		
Client ID:	DG-S11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.735, CAS: STL00158

Signal: 1

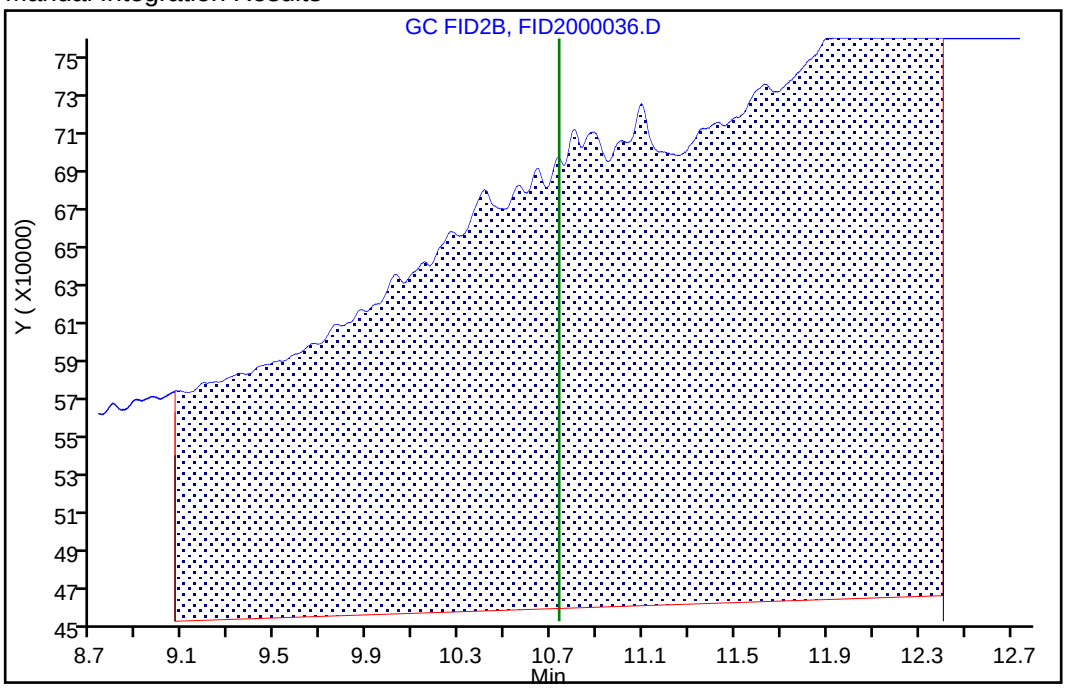
Processing Integration Results

RT: 10.73
Response: 522847543
Amount: 451.9751



Manual Integration Results

RT: 10.73
Response: 850377655
Amount: 735.1083



Reviewer: hayashid, 18-Jan-2019 12:57:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

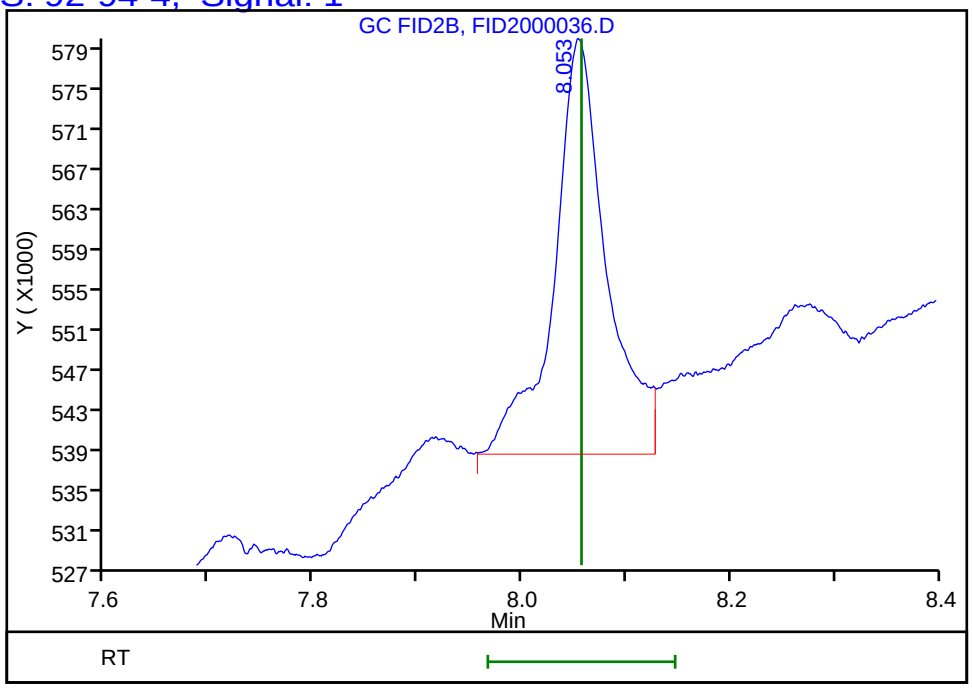
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000036.D				
Injection Date:	17-Jan-2019 23:47:39	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-17-C	Lab Sample ID:	720-90698-17		
Client ID:	DG-S11S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	86	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.05
Response: 2867025
Amount: 1.215847



Reviewer: hayashid, 18-Jan-2019 12:56:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000034.D
Lims ID: 720-90698-E-18-C
Client ID: DG-S11S-3.5-4
Sample Type: Client
Inject. Date: 17-Jan-2019 22:58:49 ALS Bottle#: 84 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 720-0056142-034
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 12:54:15 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 12:54:15

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		1.350			ND	
	23 n-Decane	2.207	2.206	0.001	295290	NC	M
A	21 Stoddard Solvent	2.808	(1.350-4.267)		18191984	7.64	M
A	1 C9-C13	2.808	(1.350-4.267)		18191984	NC	M
A	57 C10-C12	2.930	(2.206-3.655)		8968770	4.54	M
	24 Dodecane	3.662	3.655	0.007	479011	NC	M
A	3 C9 - C17	3.834	(1.350-6.318)		121530279	42.3	M
A	60 C10-C16	4.027	(2.206-5.848)		87051944	34.0	M
A	47 C9 - C18	4.057	(1.350-6.764)		206554148	91.0	M
	26 C13	4.268	4.267	0.001	1438150	NC	M
A	25 C9-C19	4.269	(1.350-7.188)		313097327	108.4	M
A	15 Kerosene	4.269	(1.350-7.188)		313097327	137.8	M
$	27 n-Decanoic Acid (Surr)		4.620			ND	U
A	59 C12-C16	4.751	(3.655-5.848)		78083174	39.5	M
A	61 C10-C20	4.900	(2.206-7.595)		408434139	206.5	M
A	28 C9-C24	5.206	(1.350-9.061)		1053967753	533.0	M
A	29 C9-C25	5.372	(1.350-9.394)		1119809983	566.3	M
A	54 C10-C23	5.461	(2.206-8.716)		920563377	465.5	M
A	4 C10-C24	5.633	(2.206-9.061)		1052699928	532.3	M
A	16 C10-C25	5.800	(2.206-9.394)		1118542158	565.6	M
	45 Hexadecane	5.846	5.848	-0.002	12567726	NC	M
A	14 C10-C26	5.960	(2.206-9.714)		1335969092	675.6	M
A	67 C12-C22	6.006	(3.655-8.358)		699693266	353.8	M
A	32 C10-C28	6.265	(2.206-10.323)		1934403113	978.2	M
A	12 Unknown Hydrocarbons	6.265	(2.206-10.323)		1934403113	NC	M
A	5 Diesel	6.265	(2.206-10.323)		1934403113	978.2	M
A	30 C13-C22	6.312	(4.267-8.358)		691737877	349.8	M
	44 Heptadecane	6.389	6.318	0.071	35965931	NC	M
A	31 C12-C24	6.358	(3.655-9.061)		1043731158	527.8	M
	49 n-Octadecane	6.758	6.764	-0.006	25167323	NC	M
A	52 Mineral oil	6.879	(1.350-12.409)		3527536976	1532.7	M
A	11 Bunker Range Organics (C9-	6.879	(1.350-12.409)		3527536976	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.879	(1.350-12.409)		3527536976	NC	M
33 C19	7.182	7.188	-0.006	51821688	NC	M
A 64 C13-C28	7.295	(4.267-10.323)		1917478954	969.7	M
A 17 C10-C36	7.307	(2.206-12.409)		3526269151	1783.2	M
A 13 C9-C40	7.369	(1.350-13.388)		5232929312	2952.1	M
A 68 Crude Oil Range Organics (	7.369	(1.350-13.388)		5232929312	NC	M
A 58 C16-C24	7.454	(5.848-9.061)		978215710	494.7	M
62 icosane	7.598	7.595	0.003	22074182	NC	M
A 6 C10-C40	7.797	(2.206-13.388)		5231661487	2954.8	M
$ 34 p-Terphenyl		8.057			ND	U
35 n-Docosane	8.360	8.358	0.002	34190079	NC	M
A 18 C12-C40	8.521	(3.655-13.388)		5222692717	2960.5	M
36 Tricosane	8.711	8.716	-0.005	66097721	NC	M
A 66 C13-C40	8.827	(4.267-13.388)		5214737328	2958.6	M
37 n-Tetracosane	9.063	9.061	0.002	65842230	NC	M
A 2 C16-C36 ORO	9.128	(5.848-12.409)		3451784933	2549.3	M
38 C25	9.400	9.394	0.006	181338966	NC	M
A 19 C16-C40	9.618	(5.848-13.388)		5157177269	2931.9	M
46 n-Hexacosane	9.753	9.714	0.039	201471717	NC	M
A 20 C19-C36	9.798	(7.188-12.409)		2487712800	1545.2	
A 55 C23-C32	10.072	(8.716-11.428)		2088956214	2354.9	M
39 n-Octacosane	10.262	10.323	-0.061	99141681	NC	M
65 C29	10.613	10.613	0.000	80010638	NC	M
A 7 Motor Oil	10.735	(9.061-12.409)		2082229089	1800.0	
A 40 C24-C36	10.735	(9.061-12.409)		2447492891	2115.7	M
A 10 C22-C40	10.873	(8.358-13.388)		2697363523	1666.1	
A 50 C25-C36	10.901	(9.394-12.409)		1811362109	1673.3	
A 41 C23-C40	11.052	(8.716-13.388)		2575339938	1621.7	
A 8 C24-C40	11.225	(9.061-13.388)		2473722792	1591.6	
56 Dotriacontane	11.419	11.428	-0.009	106318871	NC	M
A 51 C28-C40	11.856	(10.323-13.388)		1784959299	1434.9	
A 63 C29-C40	12.000	(10.613-13.388)		1579777796	1383.4	
42 n-Hexatriacontane	12.509	12.409	0.100	119142616	NC	M
43 C40		13.388			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

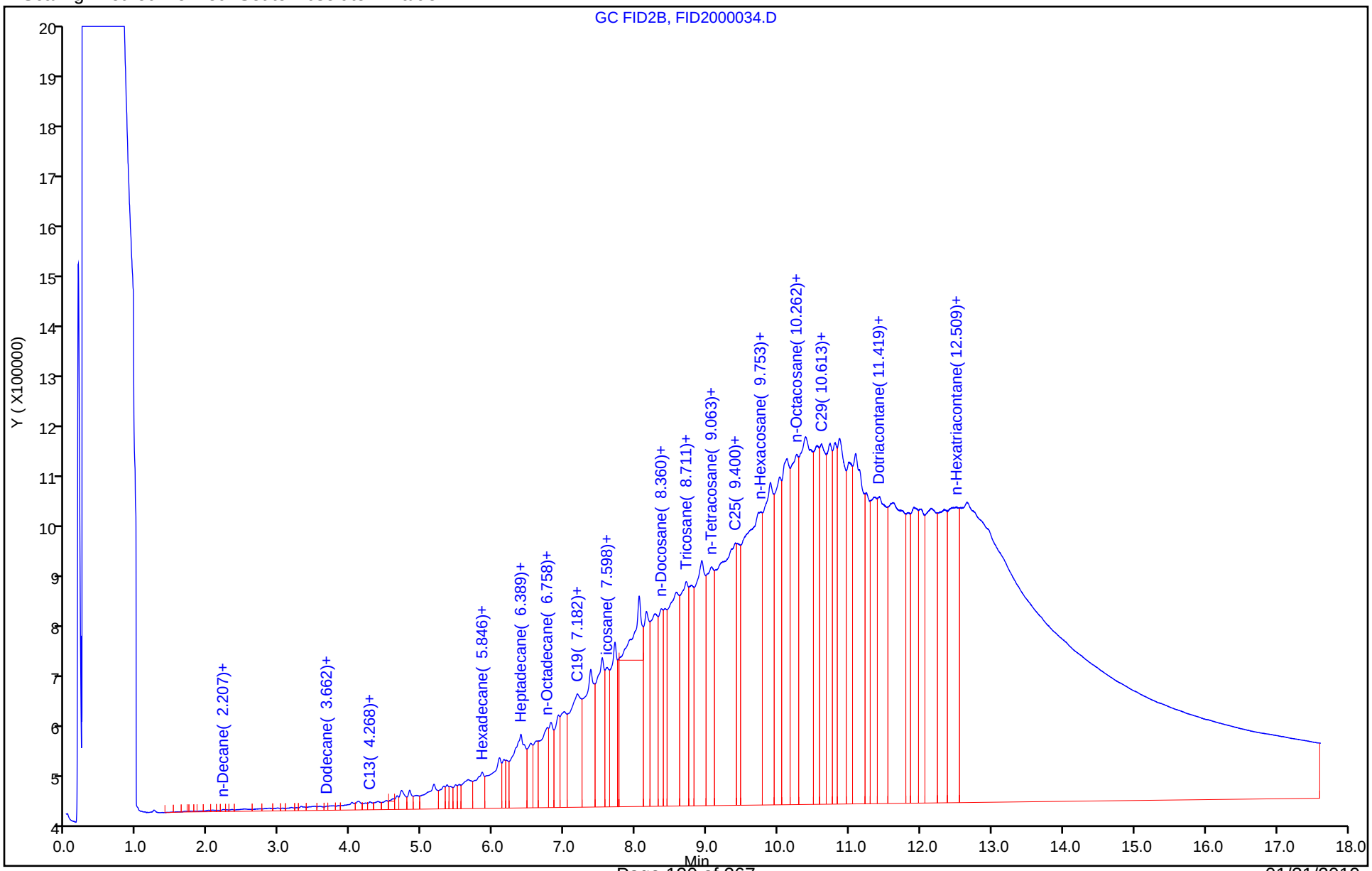
Report Date: 18-Jan-2019 12:54:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000034.D

Injection Date:	17-Jan-2019 22:58:49	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-18-C	Lab Sample ID:	720-90698-18	Worklist Smp#:	34
Client ID:	DG-S11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	84
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

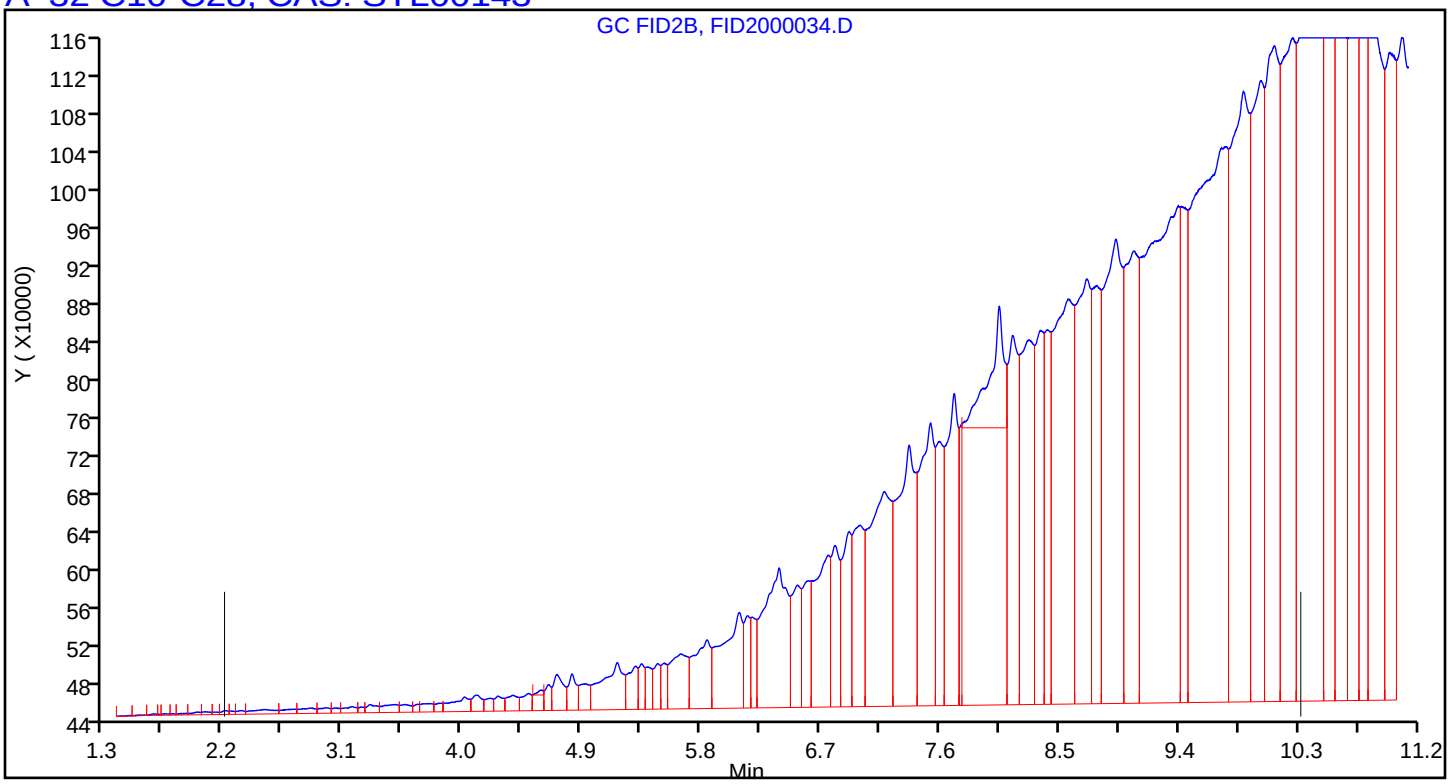


Report Date: 18-Jan-2019 12:54:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000034.D				
Injection Date:	17-Jan-2019 22:58:49	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-18-C	Lab Sample ID:	720-90698-18		
Client ID:	DG-S11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	84	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

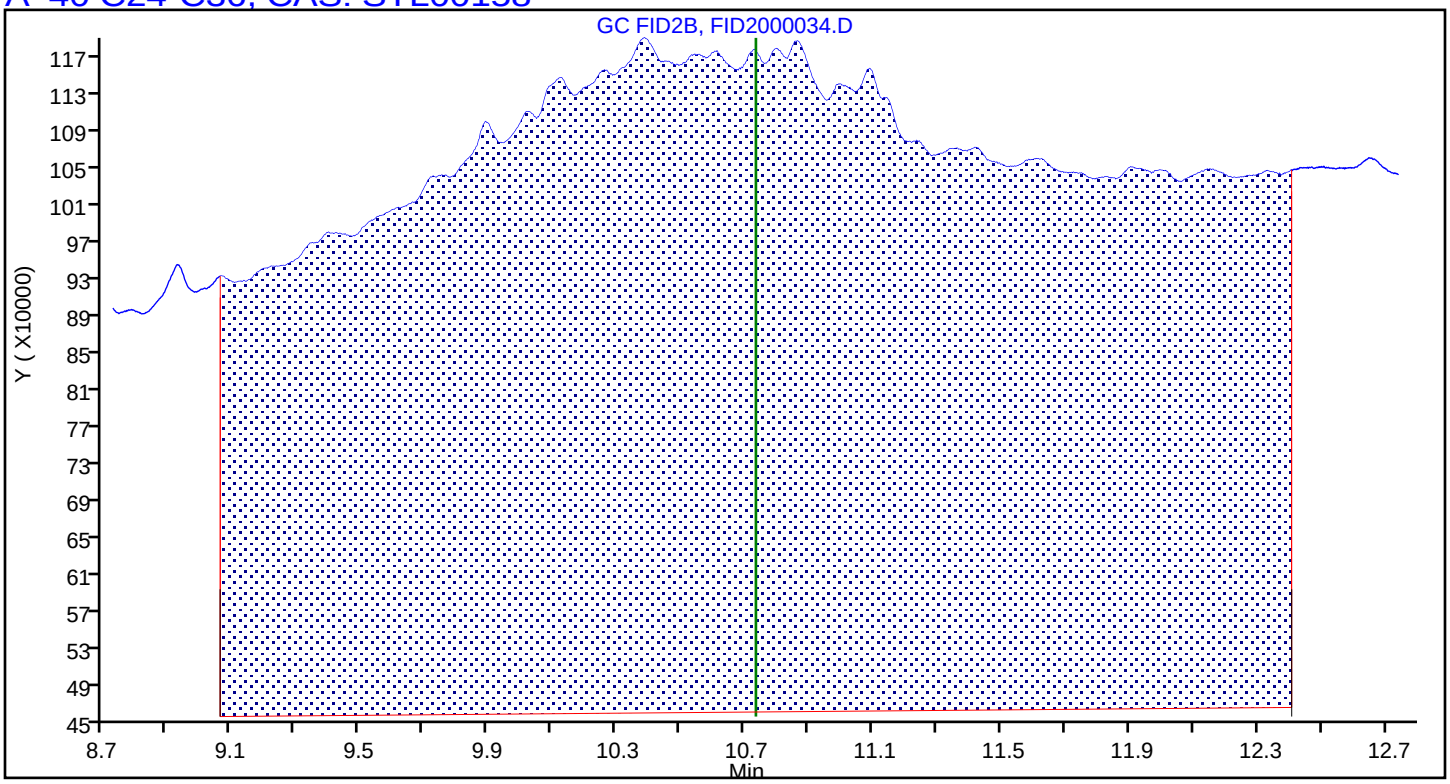


Report Date: 18-Jan-2019 12:54:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000034.D				
Injection Date:	17-Jan-2019 22:58:49	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-18-C	Lab Sample ID:	720-90698-18		
Client ID:	DG-S11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	84	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

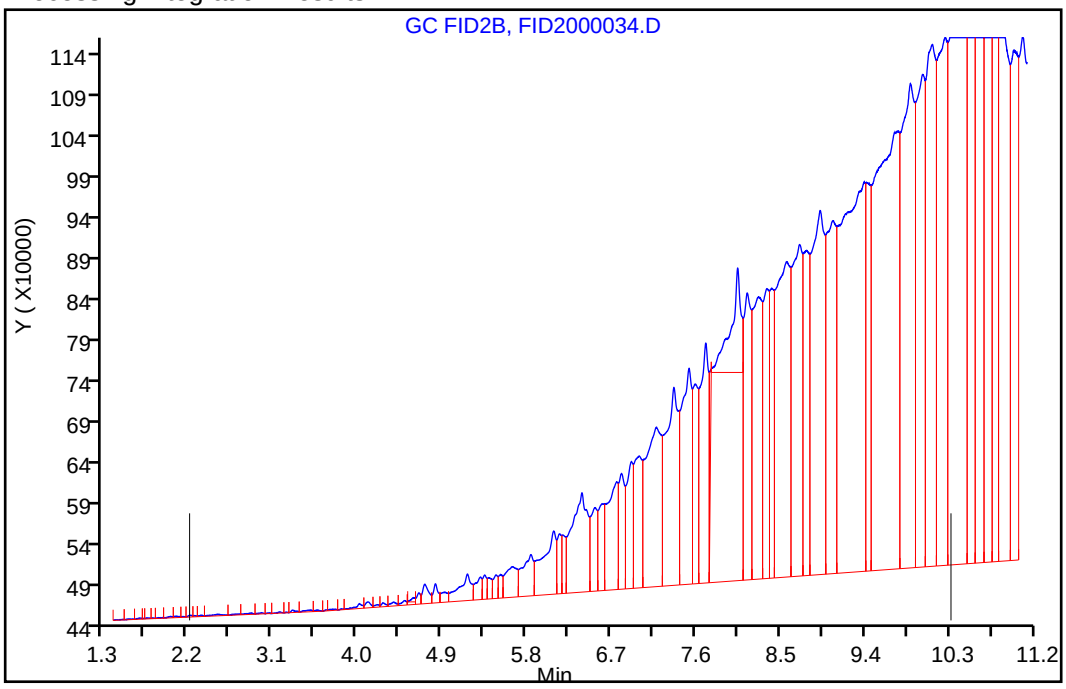
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000034.D				
Injection Date:	17-Jan-2019 22:58:49	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-18-C	Lab Sample ID:	720-90698-18		
Client ID:	DG-S11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	84	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.265, CAS: STL00143

Signal: 1

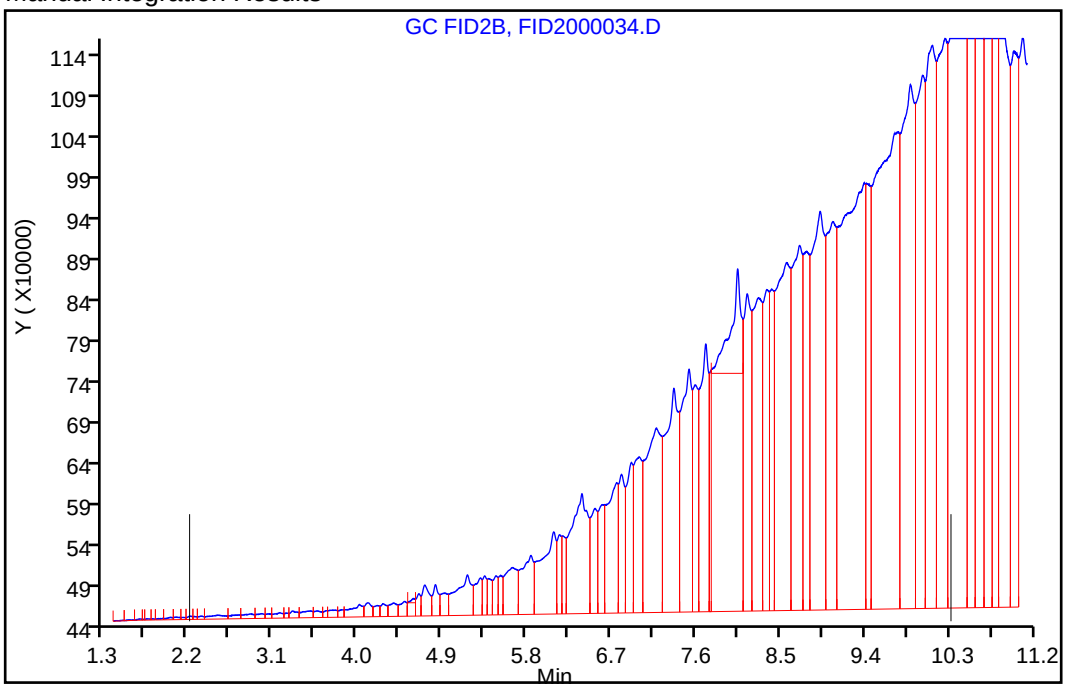
Processing Integration Results

RT: 6.26
Response: 1669616596
Amount: 844.3155



Manual Integration Results

RT: 6.26
Response: 1934403113
Amount: 978.2165



Reviewer: hayashid, 18-Jan-2019 12:54:00

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

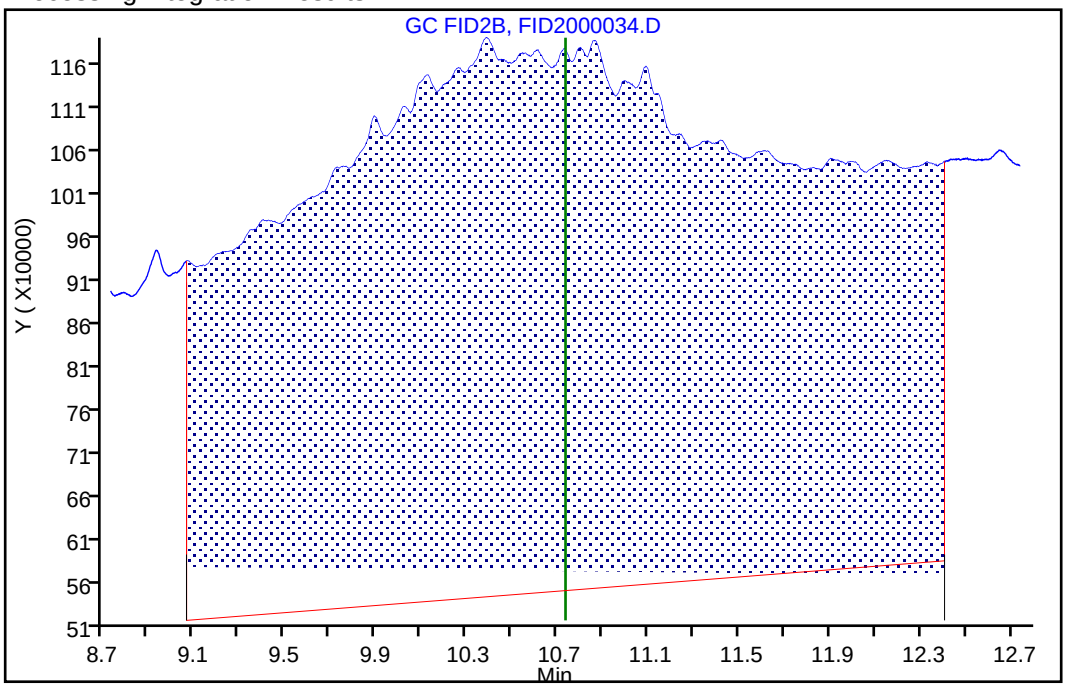
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000034.D				
Injection Date:	17-Jan-2019 22:58:49	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-18-C	Lab Sample ID:	720-90698-18		
Client ID:	DG-S11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	84	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.735, CAS: STL00158

Signal: 1

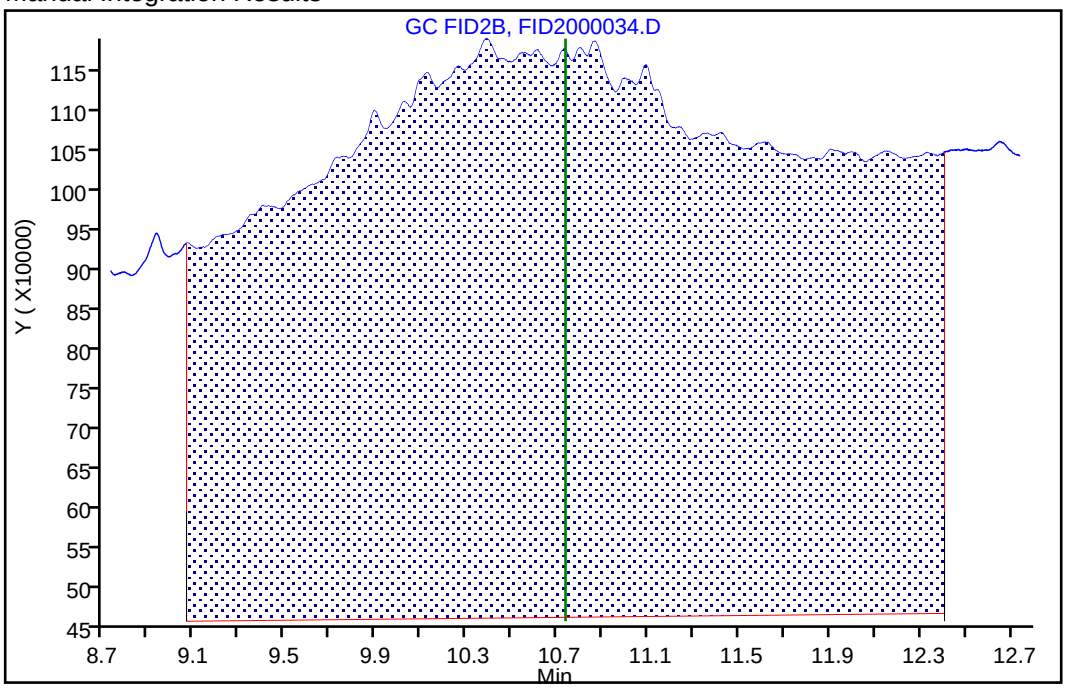
Processing Integration Results

RT: 10.73
Response: 2082229089
Amount: 1799.9813



Manual Integration Results

RT: 10.73
Response: 2447492891
Amount: 2115.7333



Reviewer: hayashid, 18-Jan-2019 12:54:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

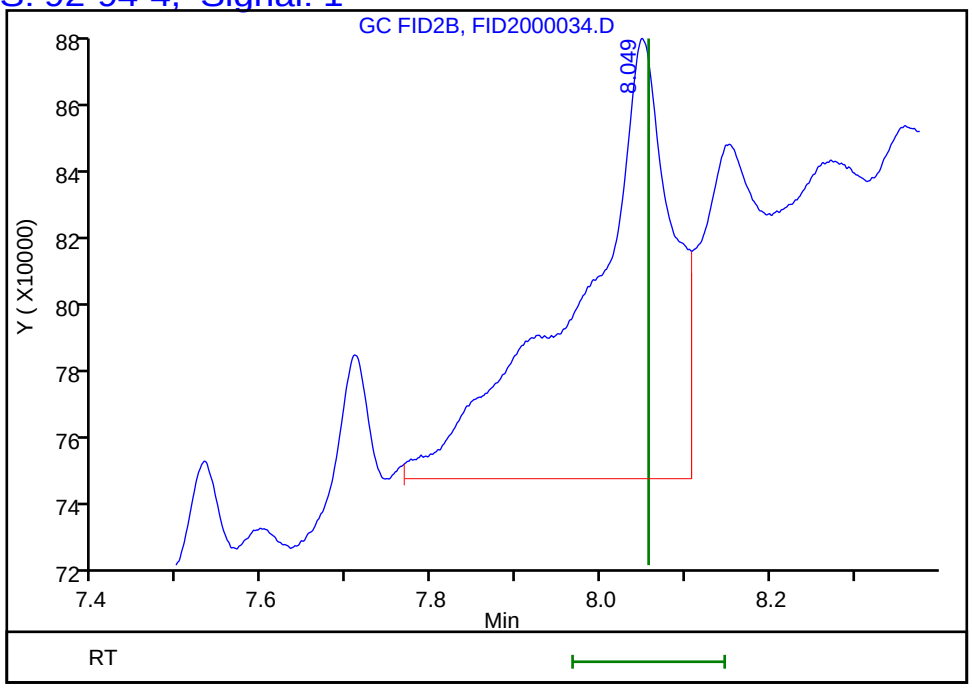
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000034.D				
Injection Date:	17-Jan-2019 22:58:49	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-18-C	Lab Sample ID:	720-90698-18		
Client ID:	DG-S11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	84	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 8.05
Response: 19331554
Amount: 8.198117



Reviewer: hayashid, 18-Jan-2019 12:54:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_016.d
Lims ID: 720-90698-E-19-C
Client ID: DG-U11S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 16:24:52 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: #: 006 Name: 720-0056158-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:08:08 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:08:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.548			ND	
23 n-Decane	3.835	3.794	0.041	380	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		90981	NC	
A 1 C9-C13	4.531	(2.548-6.514)		90981	NC	
A 57 C10-C12	4.752	(3.794-5.710)		29212	2.98	
24 Dodecane	5.680	5.710	-0.030	20208	NC	
A 3 C9 - C17	5.896	(2.548-9.244)		424400	35.0	
A 47 C9 - C18	6.183	(2.548-9.817)		800909	74.4	
A 60 C10-C16	6.200	(3.794-8.605)		423840	38.5	
A 25 C9-C19	6.462	(2.548-10.375)		800909	65.6	
A 15 Kerosene	6.462	(2.548-10.375)		800909	74.3	
26 C13	6.488	6.514	-0.026	51395	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	
A 59 C12-C16	7.157	(5.710-8.605)		414836	42.3	
A 62 C10-C20	7.353	(3.794-10.912)		800349	81.7	
A 28 C9-C24	7.695	(2.548-12.842)		3444397	351.4	
A 29 C9-C25	7.914	(2.548-13.279)		3955528	403.6	
A 54 C10-C23	8.091	(3.794-12.389)		2979484	304.0	
A 4 C10-C24	8.318	(3.794-12.842)		3443837	351.4	
A 16 C10-C25	8.536	(3.794-13.279)		3954968	403.5	
45 Hexadecane		8.605			ND	
A 14 C10-C26	8.747	(3.794-13.700)		4365311	445.4	
A 67 C12-C22	8.813	(5.710-11.916)		1939154	197.9	
A 5 Diesel	9.146	(3.794-14.499)		5403820	551.4	
A 32 C10-C28	9.146	(3.794-14.499)		5403820	551.4	
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		5403820	NC	
A 30 C13-C22	9.215	(6.514-11.916)		1909132	194.8	
44 Heptadecane		9.244			ND	
A 31 C12-C24	9.276	(5.710-12.842)		3434833	350.5	
49 n-Octadecane		9.817			ND	
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		8067202	NC	
A 52 Mineral oil	9.889	(2.548-17.229)		8598403	767.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		8598403	NC	
33 C19		10.375			ND	
A 64 C13-C28	10.507	(6.514-14.499)		5364794	547.4	
A 17 C10-C36	10.512	(3.794-17.229)		8066642	823.0	
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		9390883	NC	
A 13 C9-C40	10.665	(2.548-18.782)		9390883	1153.4	
A 58 C16-C24	10.724	(8.605-12.842)		3019997	308.1	
61 icosane		10.912			ND	
A 6 C10-C40	11.288	(3.794-18.782)		9388475	1153.4	
$ 34 p-Terphenyl		11.908			ND	
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		9345924	1148.4	
36 Tricosane	12.413	12.389	0.024	317518	NC	
A 66 C13-C40	12.648	(6.514-18.782)		9274064	1139.4	
37 n-Tetracosane	12.845	12.842	0.003	230667	NC	
A 2 C16-C36 ORO	12.917	(8.605-17.229)		8052332	1061.0	
38 C25	13.297	13.279	0.018	170793	NC	
A 19 C16-C40	13.694	(8.605-18.782)		8844812	1085.5	
46 n-Hexacosane		13.700			ND	
A 20 C19-C36	13.802	(10.375-17.229)		6519607	755.6	
A 55 C23-C32	14.167	(12.389-15.946)		4294036	903.0	
39 n-Octacosane	14.579	14.499	0.080	242479	NC	
65 C29	14.966	14.878	0.088	464914	NC	
A 40 C24-C36	15.036	(12.842-17.229)		4614097	757.4	M
A 7 Motor Oil	15.036	(12.842-17.229)		4379671	718.9	
A 50 C25-C36	15.254	(13.279-17.229)		3935947	680.3	
A 10 C22-C40	15.349	(11.916-18.782)		5938763	710.4	
A 41 C23-C40	15.585	(12.389-18.782)		5475924	667.7	
A 8 C24-C40	15.812	(12.842-18.782)		5023264	631.4	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.641	(14.499-18.782)		3203674	507.0	
A 63 C29-C40	16.830	(14.878-18.782)		2713396	468.8	
42 n-Hexatriacontane	17.281	17.229	0.052	1391025	NC	
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

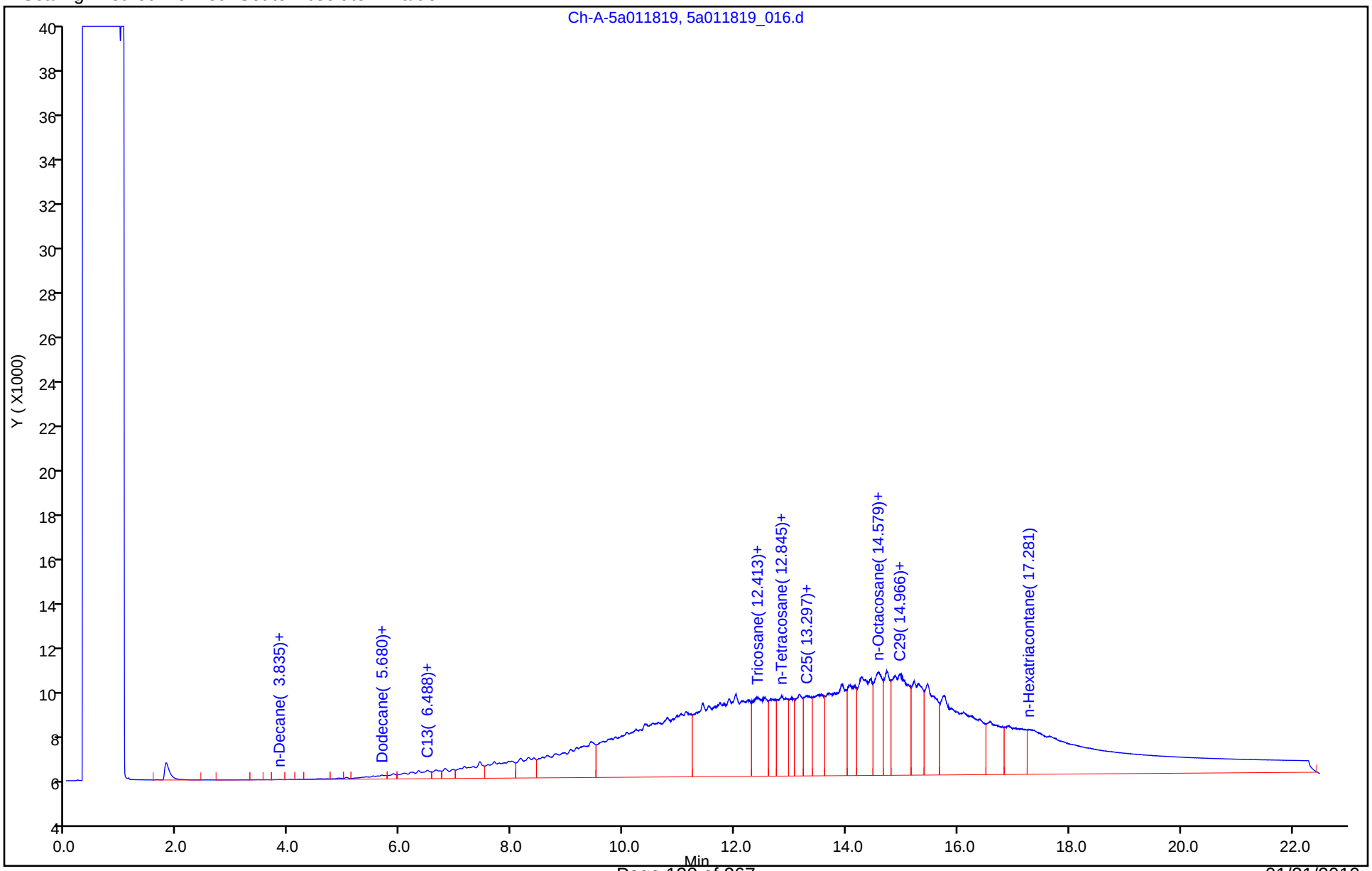
Report Date: 21-Jan-2019 12:08:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_016.d

Injection Date:	18-Jan-2019 16:24:52	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-19-C	Lab Sample ID:	720-90698-19	Worklist Smp#:	16
Client ID:	DG-U11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

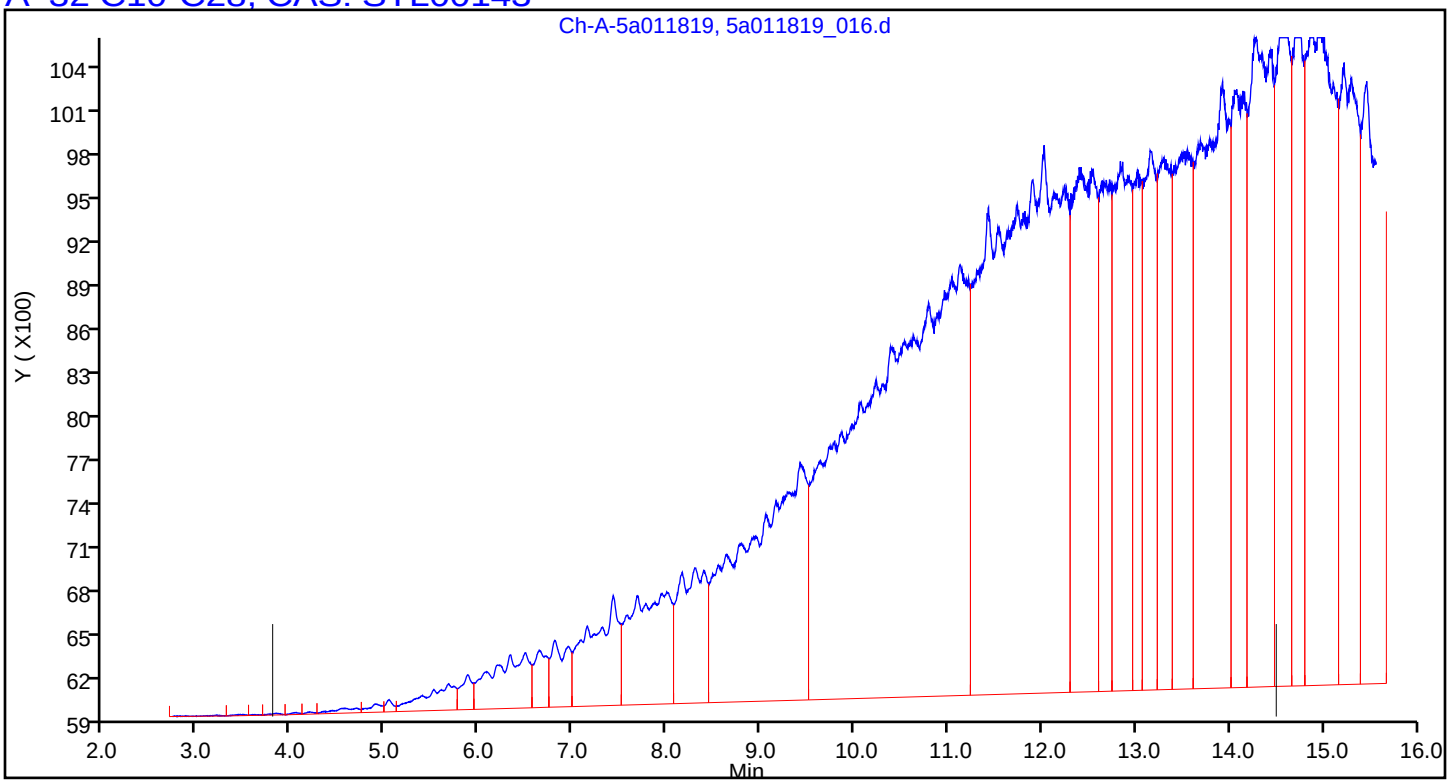


Report Date: 21-Jan-2019 12:08:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_016.d				
Injection Date:	18-Jan-2019 16:24:52	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-19-C	Lab Sample ID:	720-90698-19		
Client ID:	DG-U11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

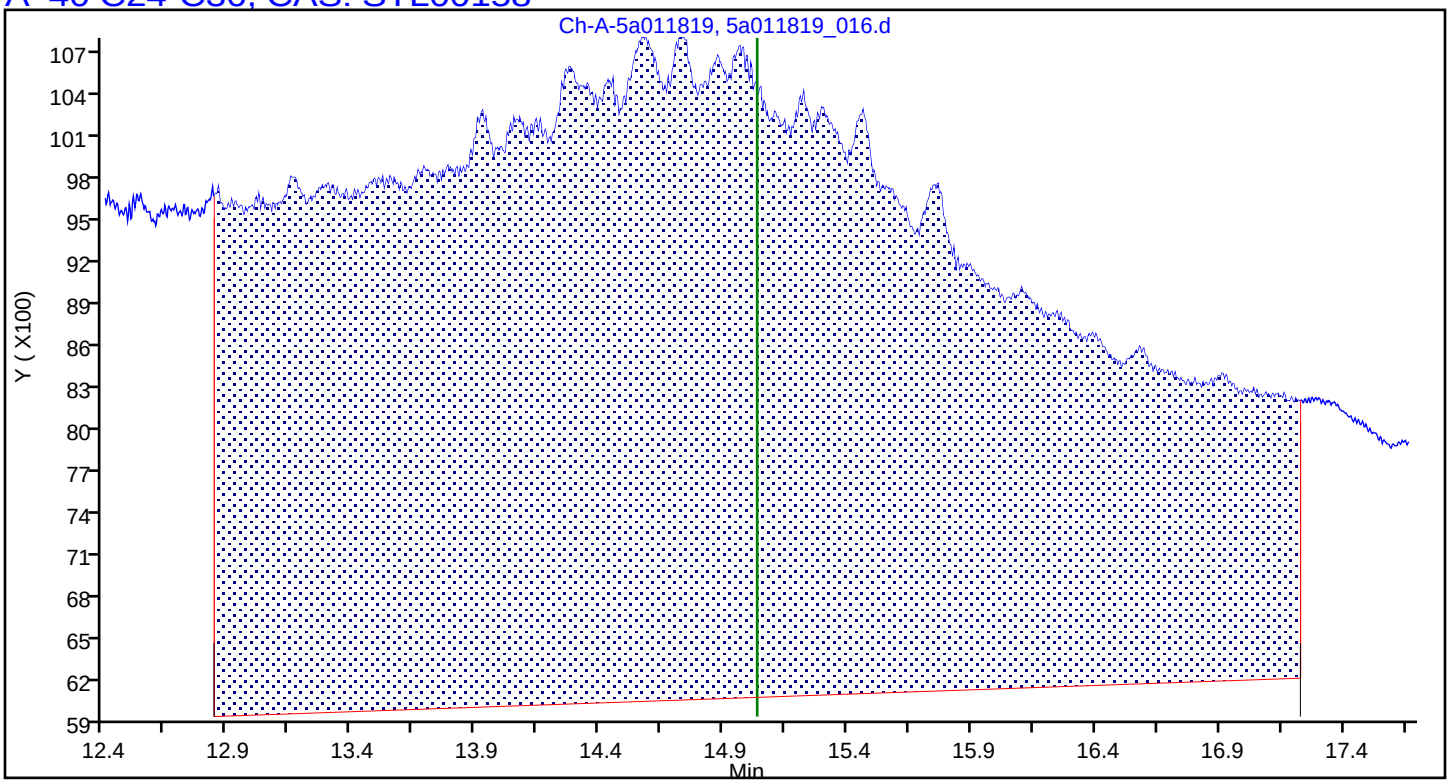


Report Date: 21-Jan-2019 12:08:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_016.d				
Injection Date:	18-Jan-2019 16:24:52	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-19-C	Lab Sample ID:	720-90698-19		
Client ID:	DG-U11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

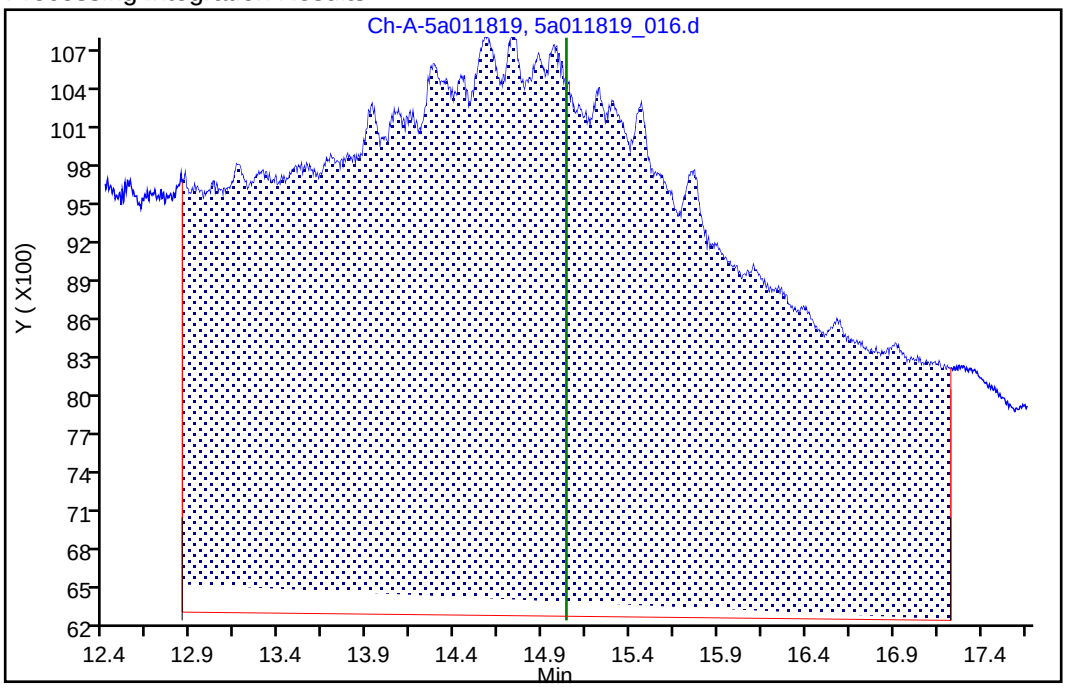
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_016.d				
Injection Date:	18-Jan-2019 16:24:52	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-19-C	Lab Sample ID:	720-90698-19		
Client ID:	DG-U11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.036, CAS: STL00158

Signal: 1

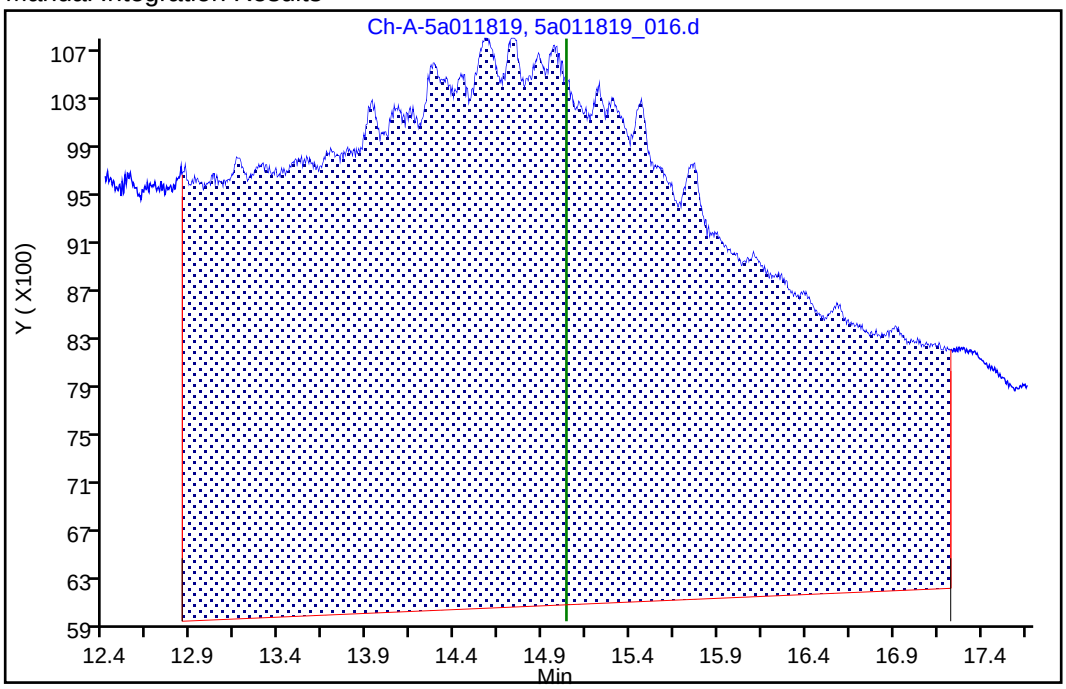
Processing Integration Results

RT: 15.04
Response: 4379671
Amount: 718.9081



Manual Integration Results

RT: 15.04
Response: 4614097
Amount: 757.3883



Reviewer: luj, 21-Jan-2019 12:08:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000042.D
Lims ID: 720-90698-E-20-C
Client ID: DG-U11S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 02:12:59 ALS Bottle#: 92 Worklist Smp#: 42
Injection Vol: 1.0 ul Dil. Factor: 3.0000
Sample Info: 720-0056142-042
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 12:59:55 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 12:59:55

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	1.444	1.350	0.094	68495	NC	M
	23 n-Decane	2.222	2.206	0.016	908599	NC	M
A	21 Stoddard Solvent	2.808	(1.350-4.267)		38871387	16.3	M
A	1 C9-C13	2.808	(1.350-4.267)		38871387	NC	M
A	57 C10-C12	2.930	(2.206-3.655)		16023410	8.10	M
	24 Dodecane	3.659	3.655	0.004	1604219	NC	M
A	3 C9 - C17	3.834	(1.350-6.318)		206025760	71.7	M
A	60 C10-C16	4.027	(2.206-5.848)		156079409	61.0	M
A	47 C9 - C18	4.057	(1.350-6.764)		295552565	130.3	M
	26 C13	4.293	4.267	0.026	3102305	NC	M
A	25 C9-C19	4.269	(1.350-7.188)		383722512	132.8	M
A	15 Kerosene	4.269	(1.350-7.188)		383722512	168.9	M
$	27 n-Decanoic Acid (Surr)		4.620			ND	U
A	59 C12-C16	4.751	(3.655-5.848)		140055999	70.8	M
A	61 C10-C20	4.900	(2.206-7.595)		483302645	244.4	M
A	28 C9-C24	5.206	(1.350-9.061)		965298839	488.1	M
A	29 C9-C25	5.372	(1.350-9.394)		1042169150	527.0	M
A	54 C10-C23	5.461	(2.206-8.716)		837533919	423.5	M
A	4 C10-C24	5.633	(2.206-9.061)		963750806	487.4	M
A	16 C10-C25	5.800	(2.206-9.394)		1040621117	526.2	M
	45 Hexadecane	5.848	5.848	0.000	5920100	NC	M
A	14 C10-C26	5.960	(2.206-9.714)		1095761484	554.1	M
A	67 C12-C22	6.006	(3.655-8.358)		687861304	347.8	M
A	32 C10-C28	6.265	(2.206-10.323)		1398211784	707.1	M
A	12 Unknown Hydrocarbons	6.265	(2.206-10.323)		1398211784	NC	M
A	5 Diesel	6.265	(2.206-10.323)		1398211784	707.1	M
A	30 C13-C22	6.312	(4.267-8.358)		666561360	337.1	M
	44 Heptadecane		6.318			ND	
A	31 C12-C24	6.358	(3.655-9.061)		947727396	479.3	M
	49 n-Octadecane	6.721	6.764	-0.043	12379983	NC	M
A	52 Mineral oil	6.879	(1.350-12.409)		2308311595	1003.0	M
A	11 Bunker Range Organics (C9-	6.879	(1.350-12.409)		2308311595	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	6.879	(1.350-12.409)		2308311595	NC	M
33 C19	7.148	7.188	-0.040	28306897	NC	M
A 64 C13-C28	7.295	(4.267-10.323)		1360888430	688.2	M
A 17 C10-C36	7.307	(2.206-12.409)		2306763562	1166.5	M
A 13 C9-C40	7.369	(1.350-13.388)		3375656078	1904.4	M
A 68 Crude Oil Range Organics (	7.369	(1.350-13.388)		3375656078	NC	M
A 58 C16-C24	7.454	(5.848-9.061)		807671397	408.4	M
62 icosane	7.598	7.595	0.003	15814867	NC	M
A 6 C10-C40	7.797	(2.206-13.388)		3374108045	1905.6	M
$ 34 p-Terphenyl	8.048	8.057	-0.009	15962435	6.77	
35 n-Docosane	8.430	8.358	0.072	45553599	NC	M
A 18 C12-C40	8.521	(3.655-13.388)		3358084635	1903.5	M
36 Tricosane	8.704	8.716	-0.012	21529840	NC	M
A 66 C13-C40	8.827	(4.267-13.388)		3336784691	1893.2	M
37 n-Tetracosane	9.057	9.061	-0.004	43999483	NC	M
A 2 C16-C36 ORO	9.128	(5.848-12.409)		2150684153	1588.4	M
38 C25	9.342	9.394	-0.052	36922044	NC	M
A 19 C16-C40	9.618	(5.848-13.388)		3218028636	1829.5	M
46 n-Hexacosane	9.758	9.714	0.044	95197250	NC	M
A 20 C19-C36	9.798	(7.188-12.409)		1234092270	766.6	
A 55 C23-C32	10.072	(8.716-11.428)		1120554997	1263.2	M
39 n-Octacosane	10.257	10.323	-0.066	54523982	NC	M
65 C29	10.633	10.613	0.020	44115585	NC	M
A 7 Motor Oil	10.735	(9.061-12.409)		1023041335	884.4	
A 40 C24-C36	10.735	(9.061-12.409)		1371931845	1186.0	M
A 10 C22-C40	10.873	(8.358-13.388)		1310031019	809.2	
A 50 C25-C36	10.901	(9.394-12.409)		867448601	801.3	
A 41 C23-C40	11.052	(8.716-13.388)		1245403940	784.2	
A 8 C24-C40	11.225	(9.061-13.388)		1197956440	770.8	
56 Dotriacontane	11.355	11.428	-0.073	94255140	NC	M
A 51 C28-C40	11.856	(10.323-13.388)		894770859	719.3	
A 63 C29-C40	12.000	(10.613-13.388)		797630777	698.5	
42 n-Hexatriacontane	12.338	12.409	-0.071	32593811	NC	M
43 C40		13.388			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

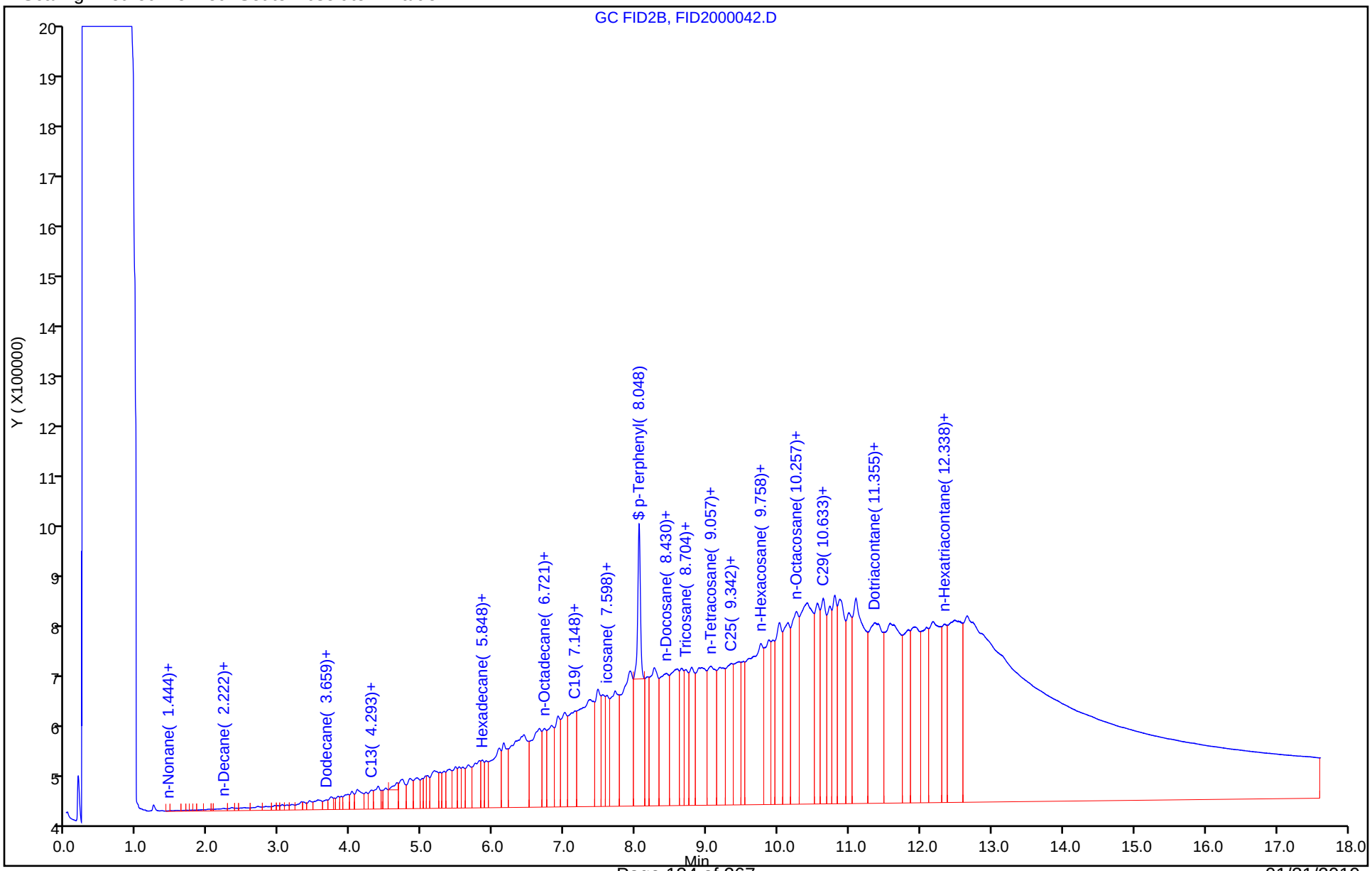
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000042.D

Injection Date:	18-Jan-2019 02:12:59	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-20-C	Lab Sample ID:	720-90698-20	Worklist Smp#:	42
Client ID:	DG-U11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	3.0000	ALS Bottle#:	92
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000042.D
Lims ID: 720-90698-E-20-C
Client ID: DG-U11S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 02:12:59 ALS Bottle#: 92 Worklist Smp#: 42
Injection Vol: 1.0 ul Dil. Factor: 3.0000
Sample Info: 720-0056142-042
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\DRO6_B.m
Limit Group: DRO
Last Update: 18-Jan-2019 12:59:55 Calib Date: 17-Jan-2019 10:24:42
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 12:59:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	6.77	27.08

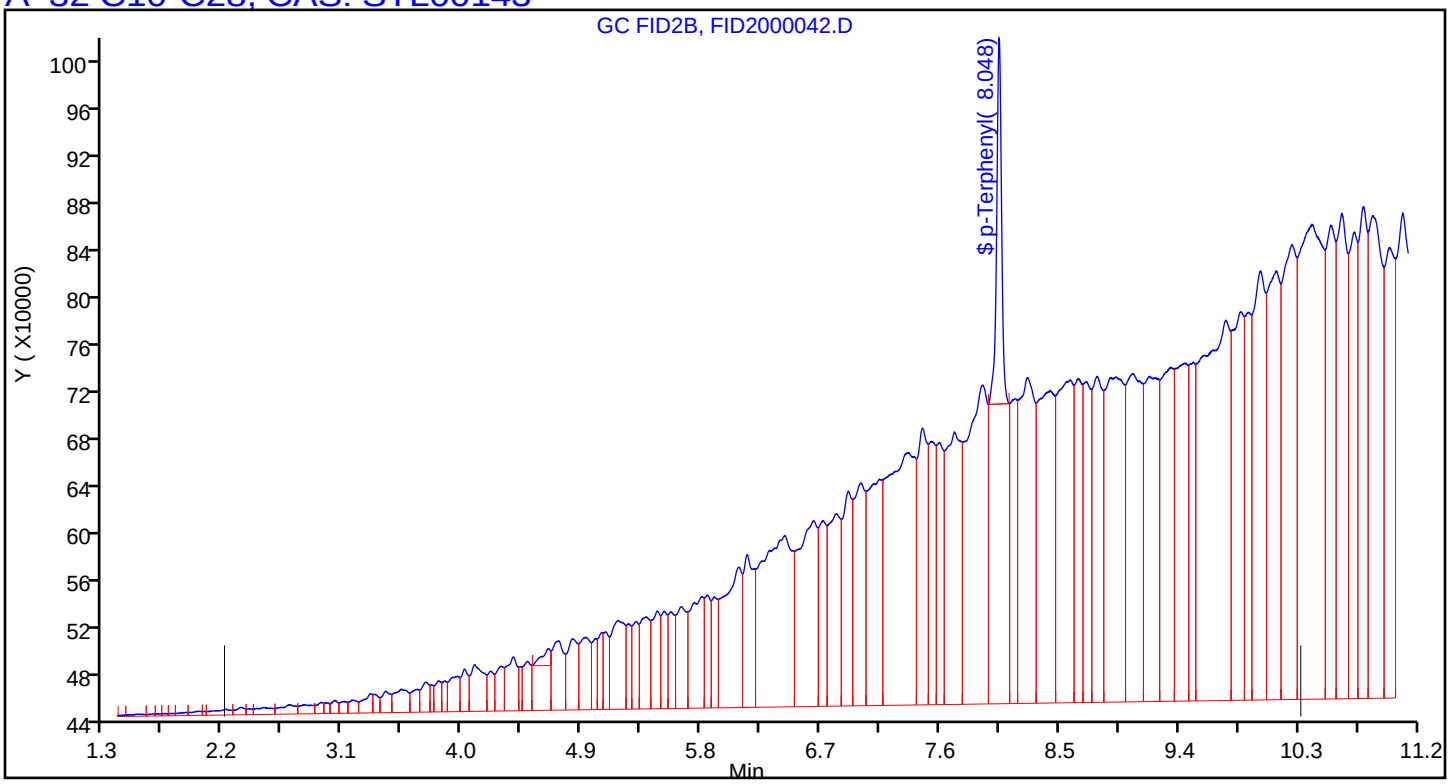
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000042.D

Injection Date:	18-Jan-2019 02:12:59	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-20-C	Lab Sample ID:	720-90698-20		
Client ID:	DG-U11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	92	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

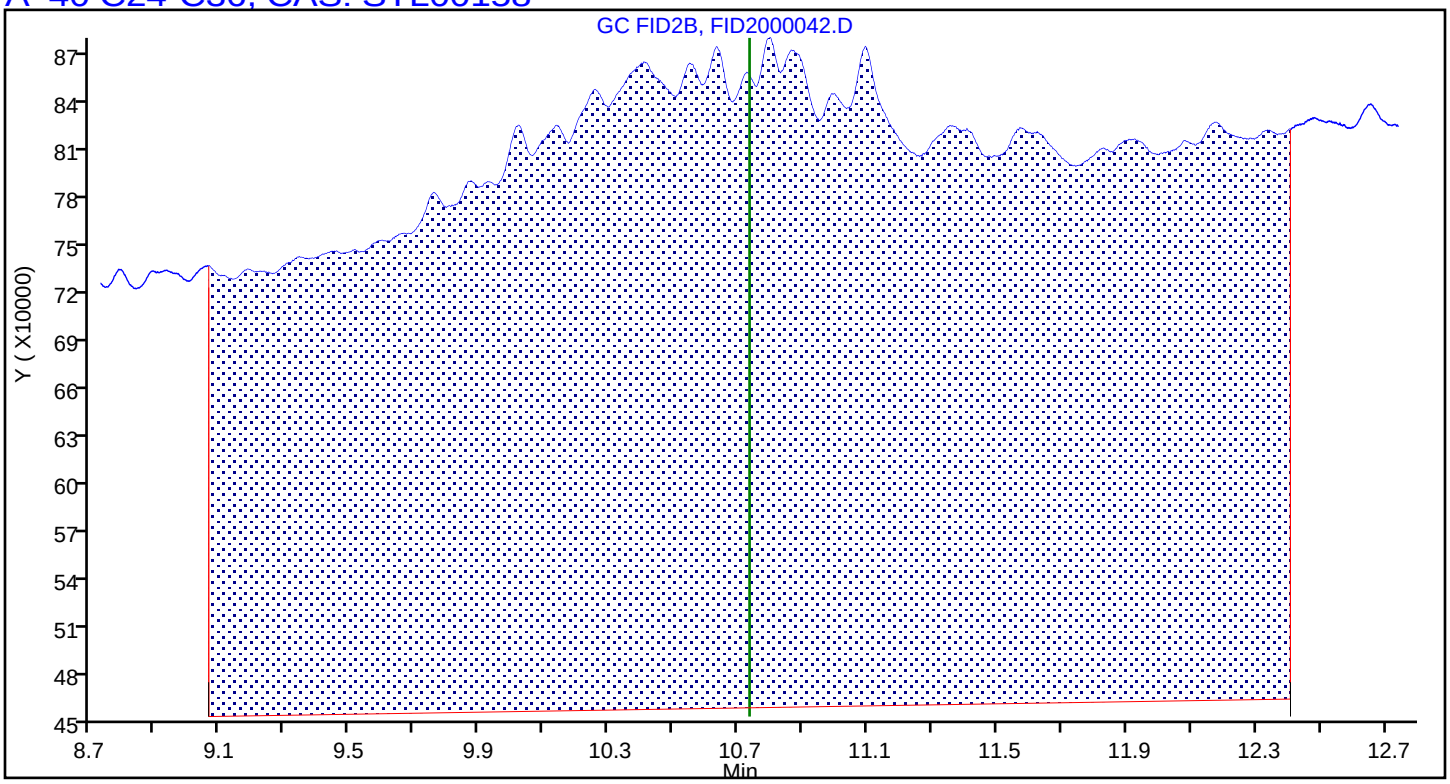


Report Date: 18-Jan-2019 13:00:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190117-56142.b\FID2000042.D				
Injection Date:	18-Jan-2019 02:12:59	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-20-C	Lab Sample ID:	720-90698-20		
Client ID:	DG-U11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	92	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

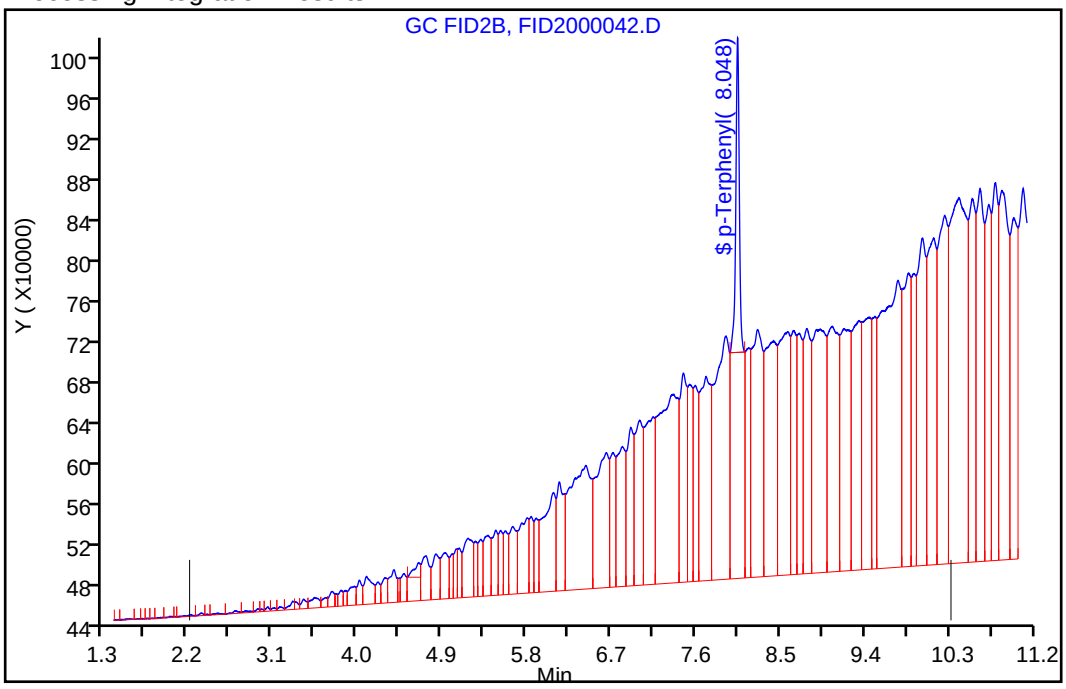
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Lims ID:	720-90698-E-20-C	Lab Sample ID:	720-90698-20		
Client ID:	DG-U11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	92	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.265, CAS: STL00143

Signal: 1

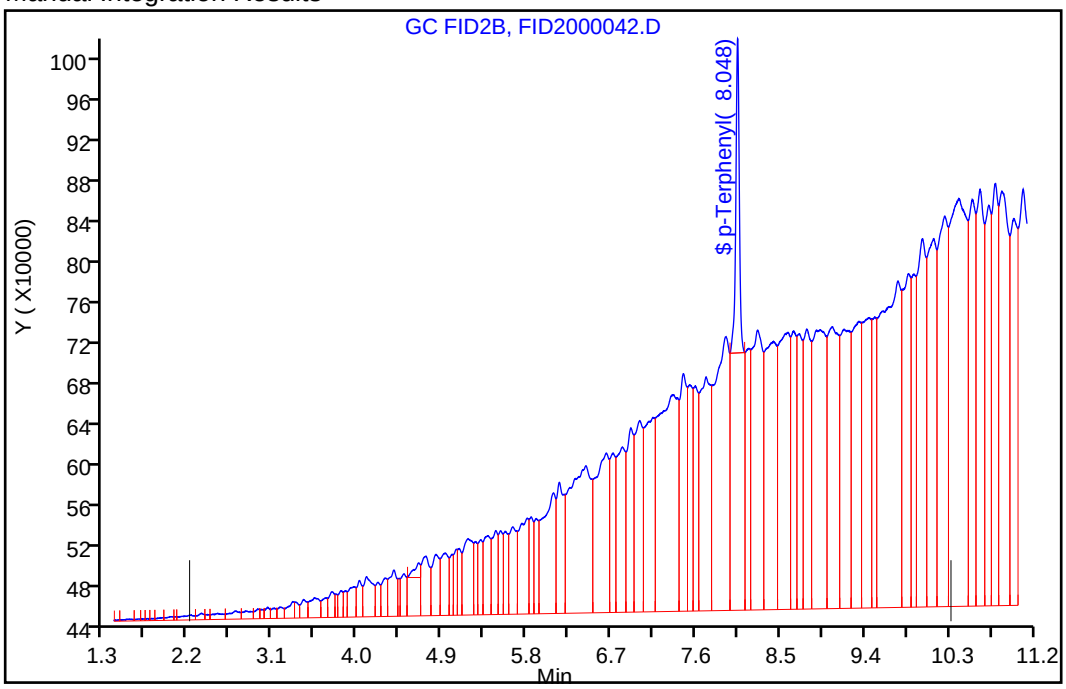
Processing Integration Results

RT: 6.26
Response: 1171122780
Amount: 592.2300



Manual Integration Results

RT: 6.26
Response: 1398211784
Amount: 707.0676



Reviewer: hayashid, 18-Jan-2019 12:59:35

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

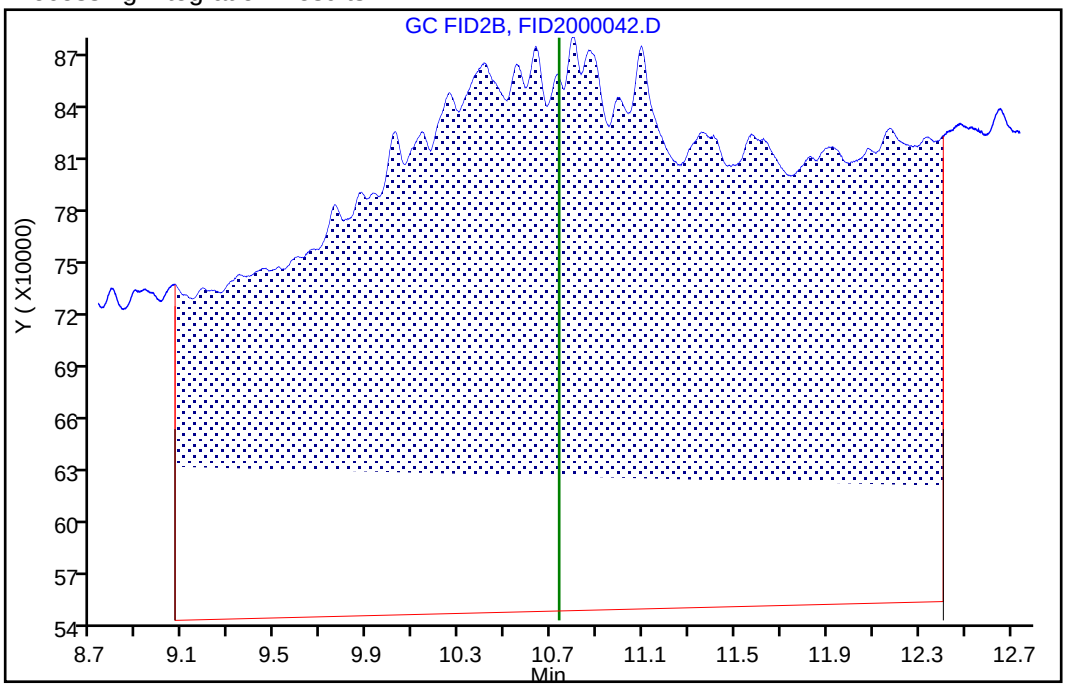
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Injection Date:	18-Jan-2019 02:12:59	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-20-C	Lab Sample ID:	720-90698-20		
Client ID:	DG-U11S-3.5-4				
Operator ID:	RLU	ALS Bottle#:	92	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.735, CAS: STL00158

Signal: 1

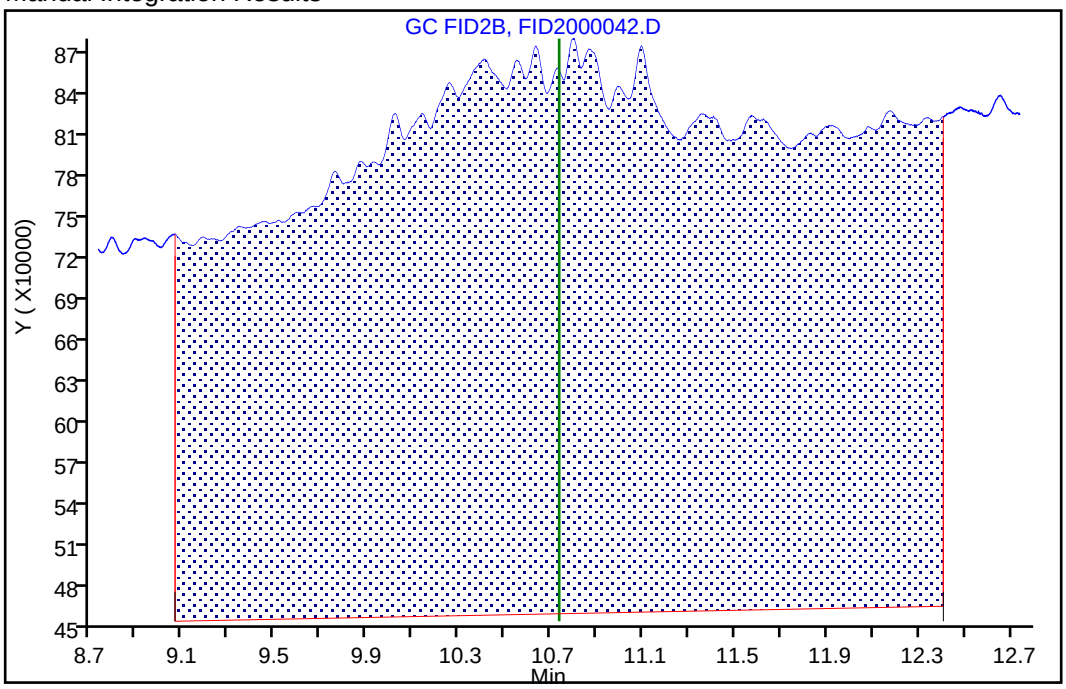
Processing Integration Results

RT: 10.73
Response: 1023041335
Amount: 884.3673



Manual Integration Results

RT: 10.73
Response: 1371931845
Amount: 1185.9654



Reviewer: hayashid, 18-Jan-2019 12:59:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_017.d
Lims ID: 720-90698-E-21-C
Client ID: DG-V13S-0.5-1
Sample Type: Client
Inject. Date: 18-Jan-2019 16:54:00 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 007 Name: 720-0056158-017
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 21-Jan-2019 12:07:26 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 12:07:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.560	2.548	0.012	402	NC	
23 n-Decane	3.830	3.794	0.036	593	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		4836	NC	
A 1 C9-C13	4.531	(2.548-6.514)		4836	NC	
A 57 C10-C12	4.752	(3.794-5.710)		1587	0.1619	
24 Dodecane		5.710			ND	
A 3 C9 - C17	5.896	(2.548-9.244)		25175	2.08	M
A 47 C9 - C18	6.183	(2.548-9.817)		25175	2.34	M
A 60 C10-C16	6.200	(3.794-8.605)		23550	2.14	M
A 25 C9-C19	6.462	(2.548-10.375)		25175	2.06	M
A 15 Kerosene	6.462	(2.548-10.375)		25175	2.33	M
26 C13	6.502	6.514	-0.012	728	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	
A 59 C12-C16	7.157	(5.710-8.605)		21963	2.24	M
A 62 C10-C20	7.353	(3.794-10.912)		23550	2.40	M
A 28 C9-C24	7.695	(2.548-12.842)		25175	2.57	M
A 29 C9-C25	7.914	(2.548-13.279)		25175	2.57	M
A 54 C10-C23	8.091	(3.794-12.389)		23550	2.40	M
A 4 C10-C24	8.318	(3.794-12.842)		23550	2.40	M
A 16 C10-C25	8.536	(3.794-13.279)		23550	2.40	M
45 Hexadecane		8.605			ND	
A 14 C10-C26	8.747	(3.794-13.700)		23550	2.40	M
A 67 C12-C22	8.813	(5.710-11.916)		21963	2.24	M
A 5 Diesel	9.146	(3.794-14.499)		2660476	271.4	M
A 32 C10-C28	9.146	(3.794-14.499)		2660476	271.4	M
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		2660476	NC	M
A 30 C13-C22	9.215	(6.514-11.916)		21067	2.15	M
44 Heptadecane		9.244			ND	
A 31 C12-C24	9.276	(5.710-12.842)		21963	2.24	M
49 n-Octadecane		9.817			ND	
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		8482992	NC	M
A 52 Mineral oil	9.889	(2.548-17.229)		6915651	617.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		6915651	NC	
33 C19		10.375			ND	
A 64 C13-C28	10.507	(6.514-14.499)		2657993	271.2	M
A 17 C10-C36	10.512	(3.794-17.229)		8481367	865.4	M
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		8145420	NC	
A 13 C9-C40	10.665	(2.548-18.782)		8145420	994.7	
A 58 C16-C24		(8.605-12.842)			ND	M
61 icosane		10.912			ND	
A 6 C10-C40	11.288	(3.794-18.782)		8142471	994.7	
$ 34 p-Terphenyl		11.908			ND	
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		8132301	993.8	
36 Tricosane		12.389			ND	
A 66 C13-C40	12.648	(6.514-18.782)		8125005	993.0	
37 n-Tetracosane		12.842			ND	
A 2 C16-C36 ORO	12.917	(8.605-17.229)		6836271	900.8	
38 C25		13.279			ND	
A 19 C16-C40	13.694	(8.605-18.782)		8066040	986.2	
46 n-Hexacosane		13.700			ND	
A 20 C19-C36	13.802	(10.375-17.229)		6323791	732.9	
A 55 C23-C32	14.167	(12.389-15.946)		4489435	944.1	
39 n-Octacosane		14.499			ND	
65 C29	14.926	14.878	0.048	517383	NC	
A 40 C24-C36	15.036	(12.842-17.229)		5385580	884.0	
A 7 Motor Oil	15.036	(12.842-17.229)		5385580	884.0	
A 50 C25-C36	15.254	(13.279-17.229)		5023497	868.3	
A 10 C22-C40	15.349	(11.916-18.782)		7080778	847.0	
A 41 C23-C40	15.585	(12.389-18.782)		6832641	833.1	
A 8 C24-C40	15.812	(12.842-18.782)		6528440	820.6	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.641	(14.499-18.782)		4723146	783.8	
A 63 C29-C40	16.830	(14.878-18.782)		4135036	756.1	
42 n-Hexatriacontane		17.229			ND	
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

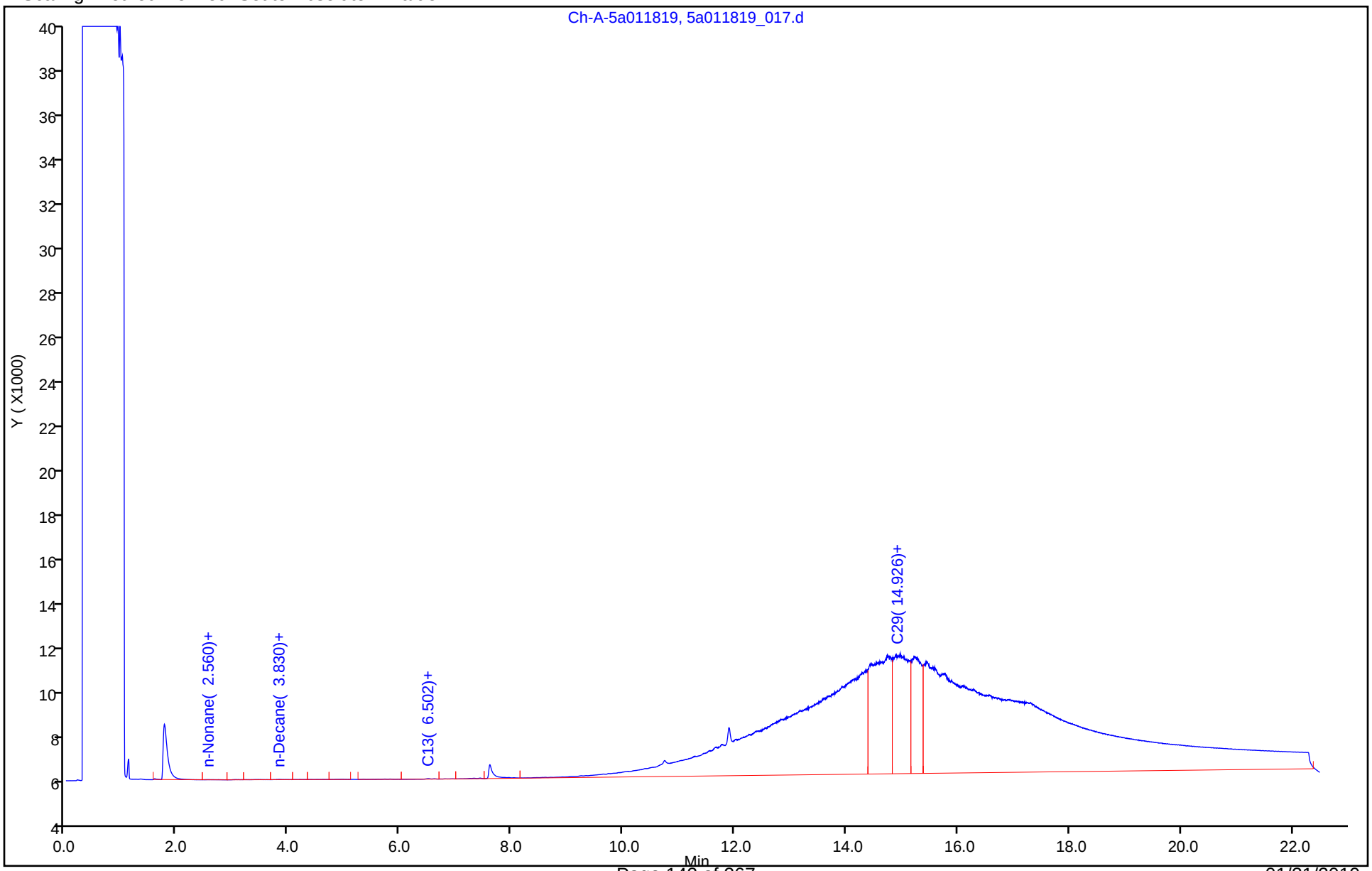
Report Date: 21-Jan-2019 12:07:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_017.d

Injection Date:	18-Jan-2019 16:54:00	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-21-C	Lab Sample ID:	720-90698-21	Worklist Smp#:	17
Client ID:	DG-V13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

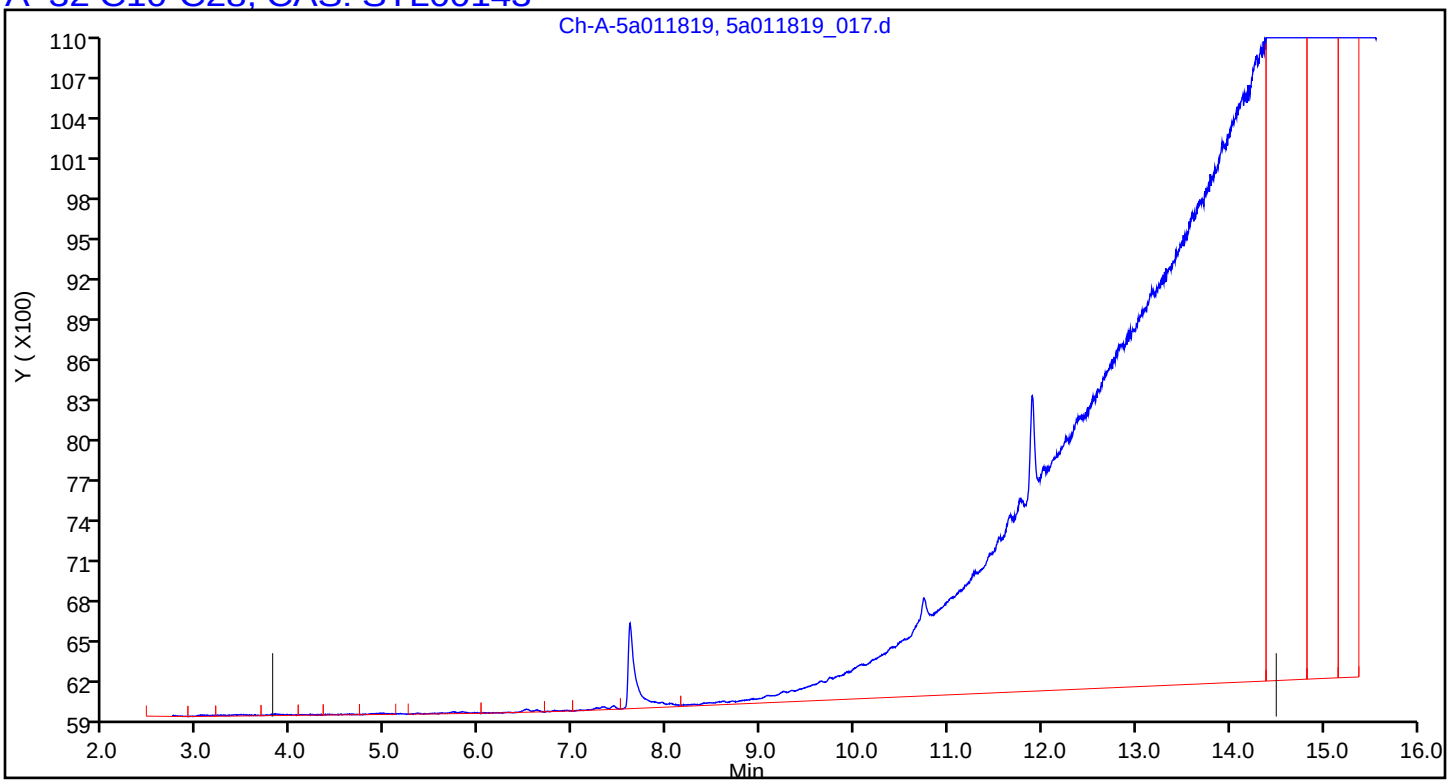


Report Date: 21-Jan-2019 12:07:27 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_017.d				
Injection Date:	18-Jan-2019 16:54:00	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-21-C	Lab Sample ID:	720-90698-21		
Client ID:	DG-V13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

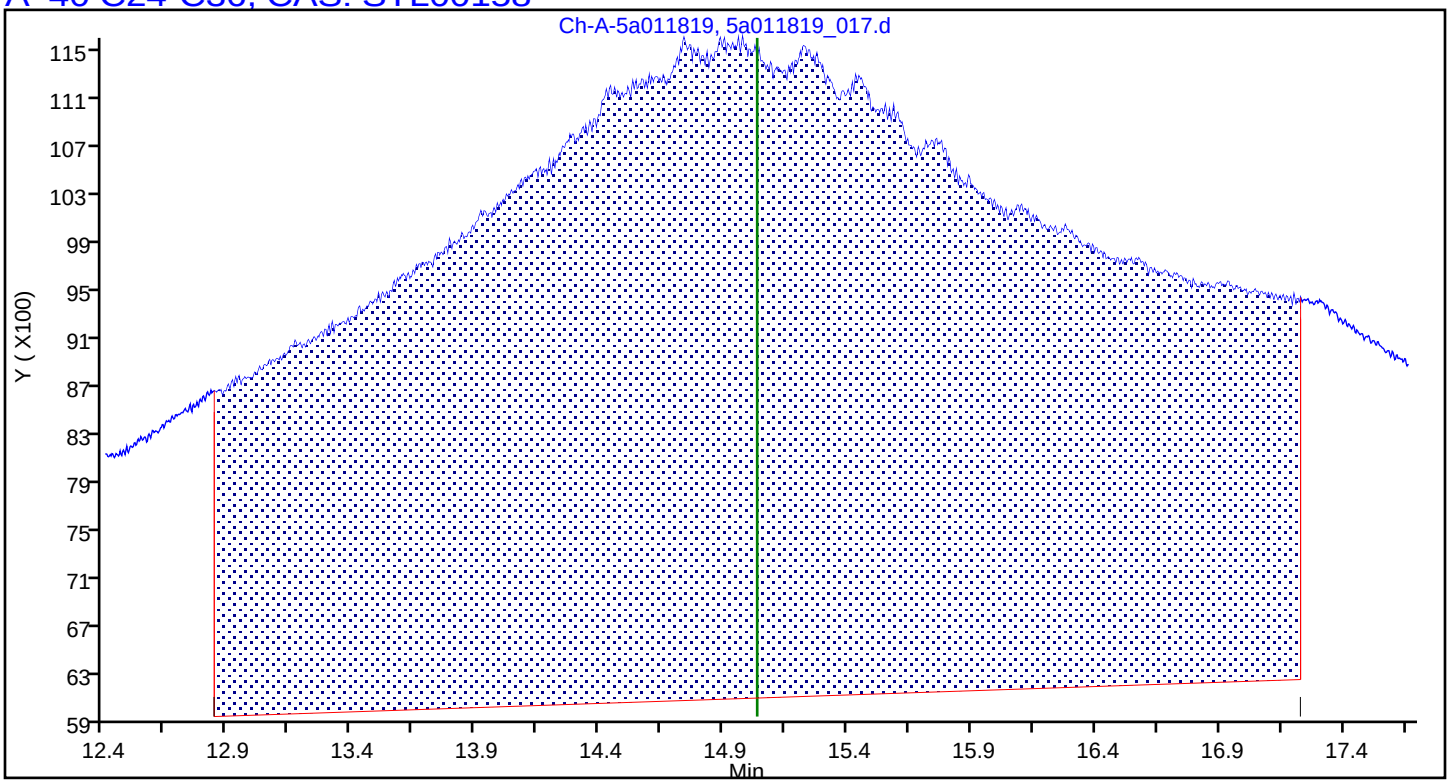


Report Date: 21-Jan-2019 12:07:28 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_017.d				
Injection Date:	18-Jan-2019 16:54:00	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-21-C	Lab Sample ID:	720-90698-21		
Client ID:	DG-V13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

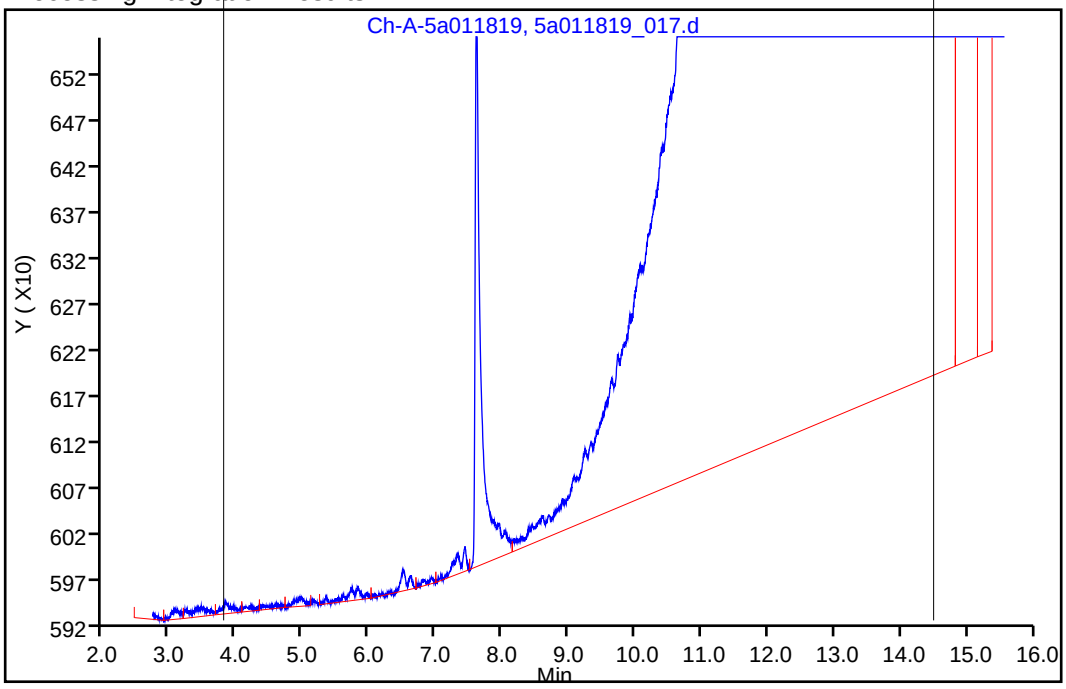
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_017.d		
Injection Date:	18-Jan-2019 16:54:00	Instrument ID:	CHDRO5
Lims ID:	720-90698-E-21-C	Lab Sample ID:	720-90698-21
Client ID:	DG-V13S-0.5-1		
Operator ID:	manager	ALS Bottle#: 0	Worklist Smp#: 17
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	DRO5A	Limit Group:	DRO
Column:		Detector	GC FID1A

A 32 C10-C28, RT: 9.146, CAS: STL00143

Signal: 1

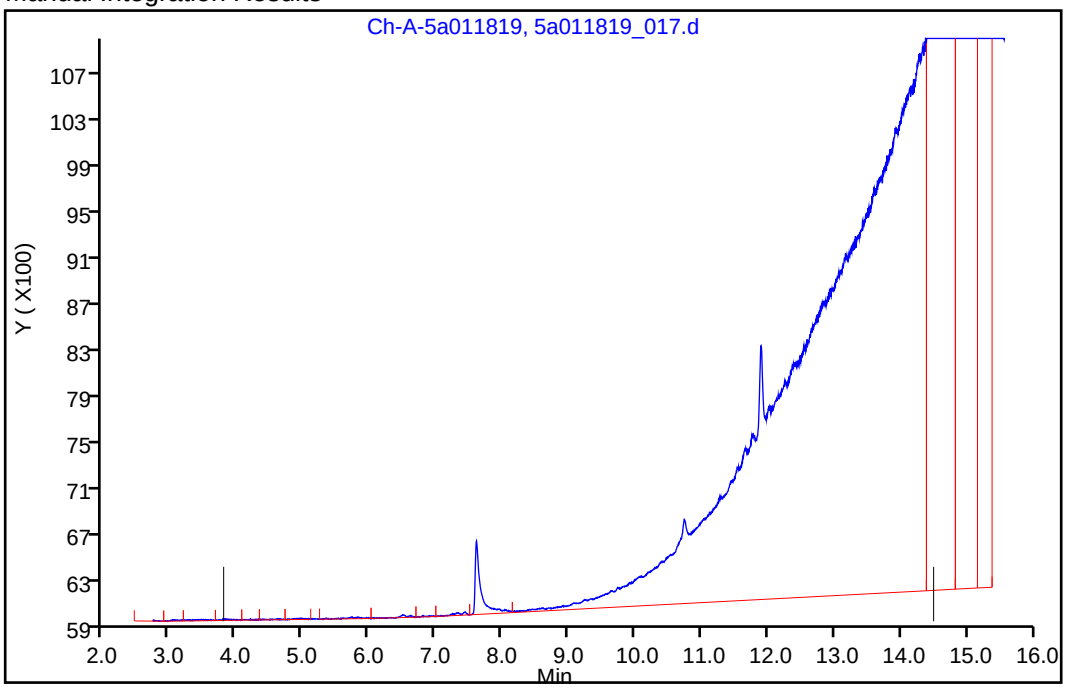
Processing Integration Results

RT: 9.15
Response: 23550
Amount: 2.402813



Manual Integration Results

RT: 9.15
Response: 2660476
Amount: 271.4491



Reviewer: luj, 21-Jan-2019 12:07:15

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_018.d
Lims ID: 720-90698-E-22-E
Client ID: DG-V13S-3.5-4
Sample Type: Client
Inject. Date: 22-Jan-2019 16:55:07 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 106 Name: 720-0056216-018
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:20:09 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:20:09

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.723	2.679	0.044	880	NC	
23 n-Decane	3.925	3.898	0.027	1761	NC	
A 21 Stoddard Solvent	4.628	(2.679-6.578)		20169	1.77	M
A 1 C9-C13	4.628	(2.679-6.578)		20169	1.59	M
A 57 C10-C12	4.839	(3.898-5.780)		10092	1.03	M
24 Dodecane	5.777	5.780	-0.003	1483	NC	M
A 3 C9 - C17	5.979	(2.679-9.278)		114581	8.11	M
A 47 C9 - C18	6.267	(2.679-9.856)		193332	17.2	M
A 60 C10-C16	6.275	(3.898-8.652)		74633	5.98	M
A 25 C9-C19	6.545	(2.679-10.410)		255699	18.1	M
A 15 Kerosene	6.545	(2.679-10.410)		255699	22.7	M
26 C13	6.540	6.578	-0.038	1502	NC	M
$ 27 n-Decanoic Acid (Surr)		7.196			ND	U
A 59 C12-C16	7.216	(5.780-8.652)		66024	6.72	M
A 62 C10-C20	7.421	(3.898-10.944)		484906	49.4	M
A 28 C9-C24	7.771	(2.679-12.863)		1292813	131.7	M
A 29 C9-C25	7.988	(2.679-13.297)		2869181	292.2	M
A 54 C10-C23	8.155	(3.898-12.412)		1288386	131.2	M
A 4 C10-C24	8.381	(3.898-12.863)		1288386	131.2	M
A 16 C10-C25	8.598	(3.898-13.297)		2864754	291.8	M
45 Hexadecane	8.647	8.652	-0.005	4859	NC	M
A 14 C10-C26	8.807	(3.898-13.715)		2864754	291.8	M
A 67 C12-C22	8.862	(5.780-11.943)		992921	101.1	M
A 12 Unknown Hydrocarbons	9.204	(3.898-14.509)		5574283	NC	M
A 32 C10-C28	9.204	(3.898-14.509)		5574283	567.7	M
A 5 Diesel	9.204	(3.898-14.509)		5574283	567.7	M
A 30 C13-C22	9.260	(6.578-11.943)		987290	100.6	M
44 Heptadecane	9.297	9.278	0.019	22341	NC	M
A 31 C12-C24	9.321	(5.780-12.863)		1279777	130.3	M
49 n-Octadecane		9.856			ND	
A 11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		18089353	NC	M
A 9 Crude Oil Range Organics (	9.950	(2.679-17.220)		13581051	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		13581051	1250.1	
33 C19	10.417	10.410	0.007	84406	NC	M
A 64 C13-C28	10.543	(6.578-14.509)		5560043	566.3	M
A 17 C10-C36	10.559	(3.898-17.220)		18084926	1842.0	M
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		16046267	NC	
A 13 C9-C40	10.716	(2.679-18.754)		16046267	2058.6	
A 58 C16-C24	10.757	(8.652-12.863)		1218612	124.1	M
61 icosane		10.944			ND	
A 6 C10-C40	11.326	(3.898-18.754)		16040063	2058.0	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		16019232	2055.7	
36 Tricosane		12.412			ND	
A 66 C13-C40	12.666	(6.578-18.754)		15714916	2021.4	
37 n-Tetracosane		12.863			ND	
A 2 C16-C36 ORO	12.936	(8.652-17.220)		11903335	1668.5	
38 C25		13.297			ND	
A 19 C16-C40	13.703	(8.652-18.754)		15911751	2045.2	
46 n-Hexacosane		13.715			ND	
A 20 C19-C36	13.815	(10.410-17.220)		11133162	1427.8	
A 55 C23-C32	14.179	(12.412-15.946)		7935100	1931.8	
39 n-Octacosane	14.463	14.509	-0.046	2709529	NC	M
65 C29	14.940	14.886	0.054	334905	NC	M
A 7 Motor Oil	15.041	(12.863-17.220)		10569665	1851.7	
A 40 C24-C36	15.041	(12.863-17.220)		10569665	1851.7	
A 50 C25-C36	15.258	(13.297-17.220)		9939157	1846.9	
A 10 C22-C40	15.348	(11.943-18.754)		13876251	1751.6	
A 41 C23-C40	15.583	(12.412-18.754)		13408396	1734.4	
A 8 C24-C40	15.808	(12.863-18.754)		12860081	1724.1	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.631	(14.509-18.754)		9731452	1989.8	
A 63 C29-C40	16.820	(14.886-18.754)		8668277	1996.1	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

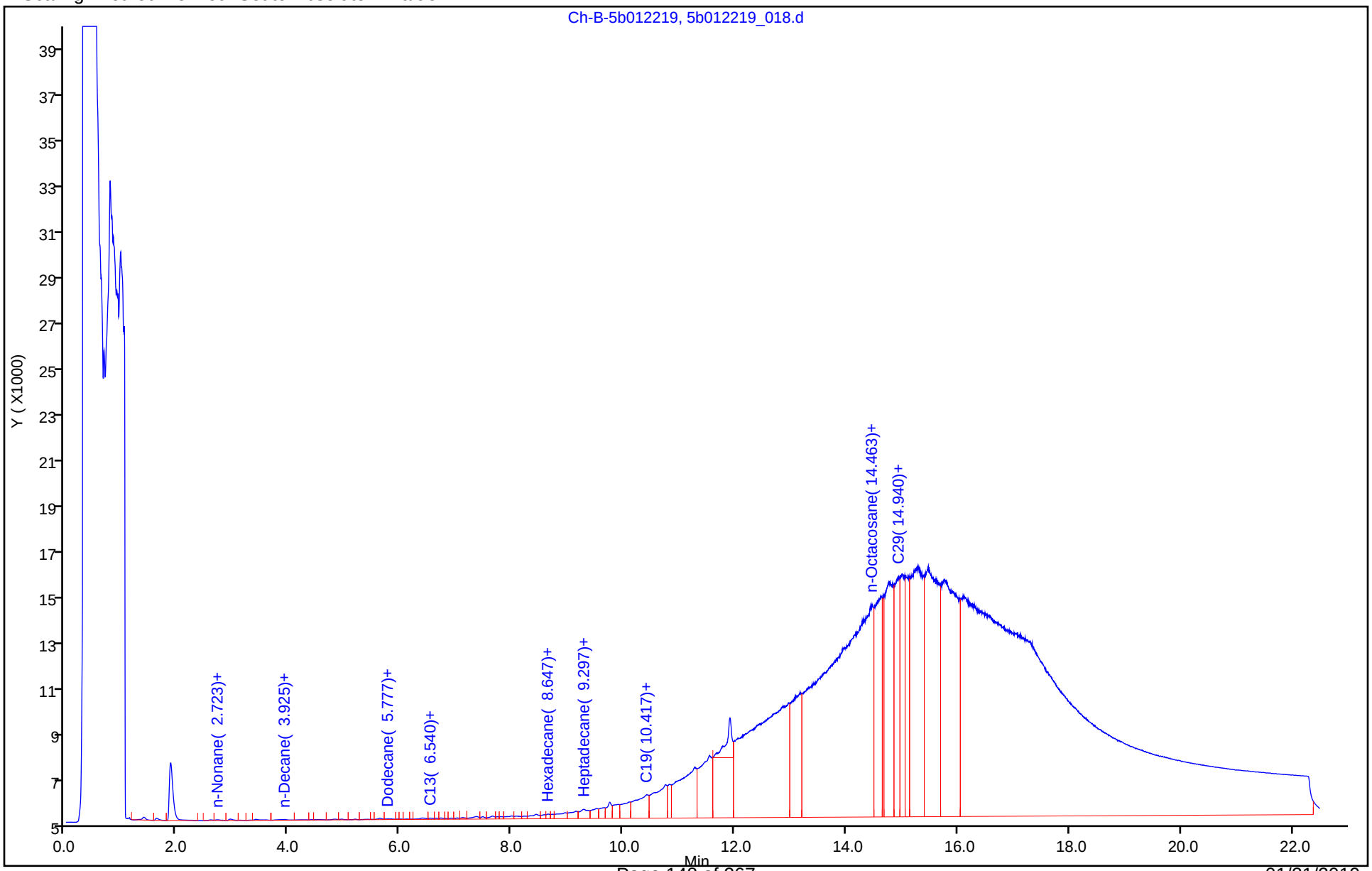
Report Date: 23-Jan-2019 16:20:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_018.d

Injection Date:	22-Jan-2019 16:55:07	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-22-E	Lab Sample ID:	720-90698-22	Worklist Smp#:	18
Client ID:	DG-V13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

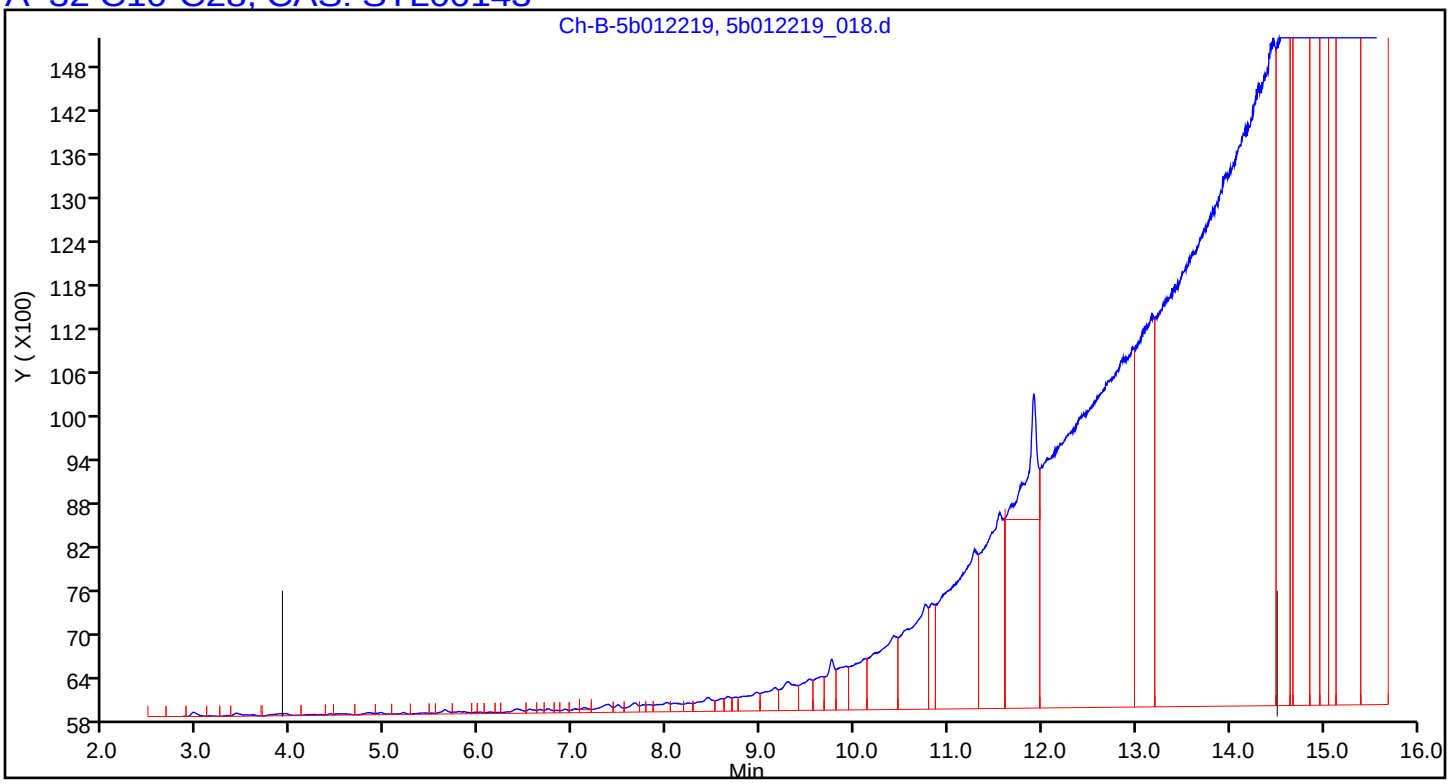


Report Date: 23-Jan-2019 16:20:11 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_018.d				
Injection Date:	22-Jan-2019 16:55:07	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-22-E	Lab Sample ID:	720-90698-22		
Client ID:	DG-V13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

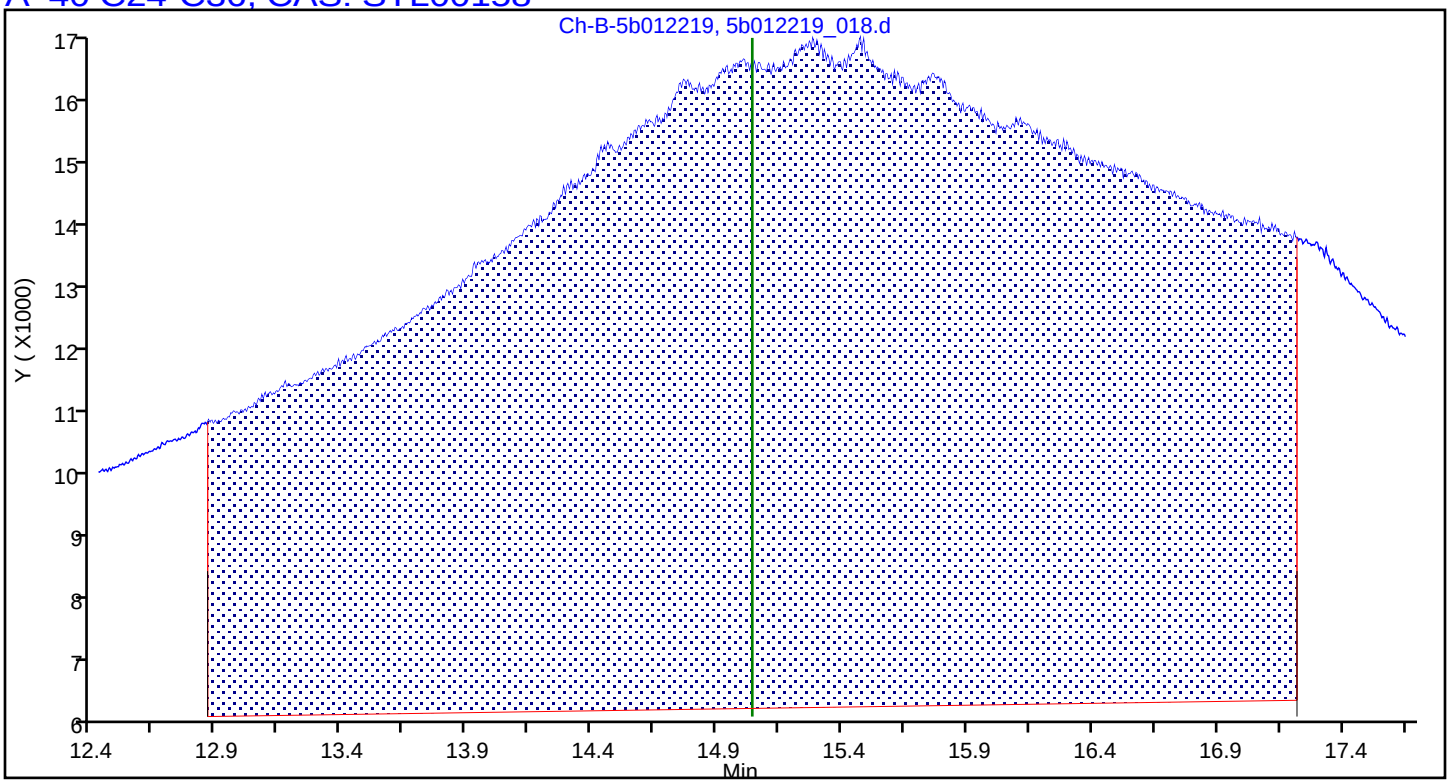


Report Date: 23-Jan-2019 16:20:12 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_018.d				
Injection Date:	22-Jan-2019 16:55:07	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-22-E	Lab Sample ID:	720-90698-22		
Client ID:	DG-V13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

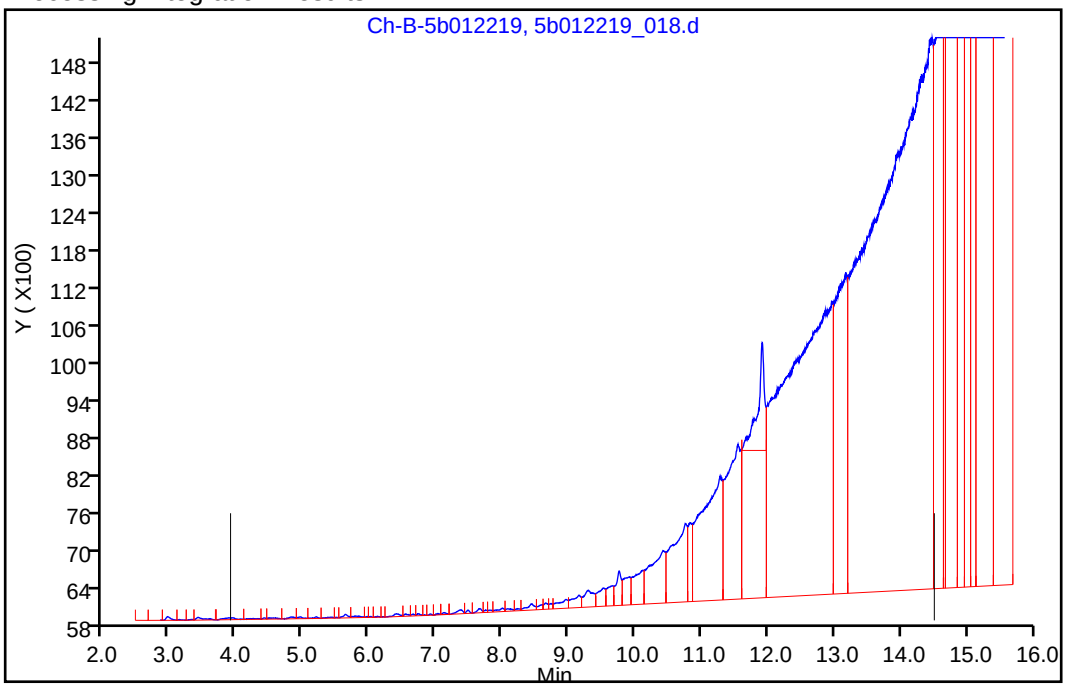
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Injection Date:	22-Jan-2019 16:55:07	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-22-E	Lab Sample ID:	720-90698-22		
Client ID:	DG-V13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.204, CAS: STL00143

Signal: 1

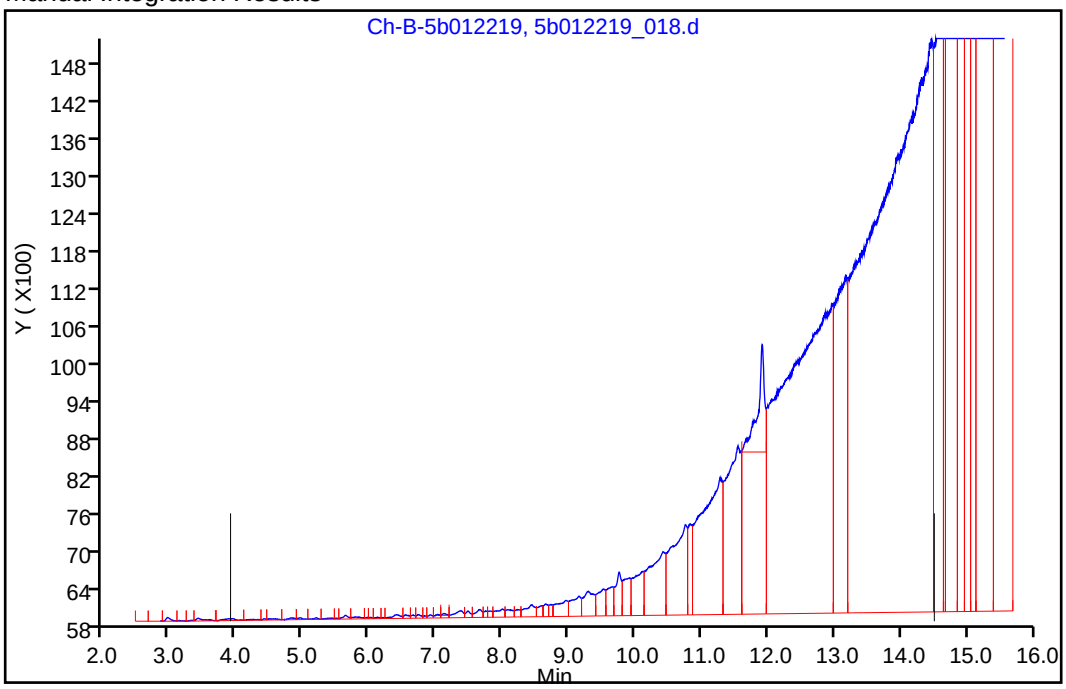
Processing Integration Results

RT: 9.20
Response: 5041028
Amount: 513.4363



Manual Integration Results

RT: 9.20
Response: 5574283
Amount: 567.7491



Reviewer: hayashid, 23-Jan-2019 16:20:02

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

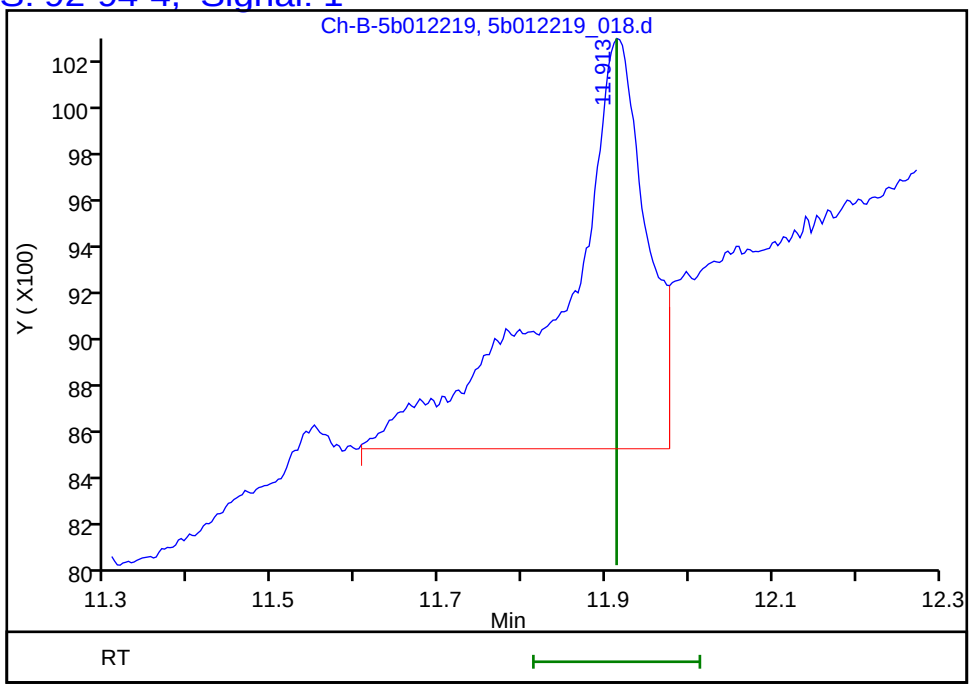
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_018.d				
Injection Date:	22-Jan-2019 16:55:07	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-22-E	Lab Sample ID:	720-90698-22		
Client ID:	DG-V13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 62792
Amount: 4.982360



Reviewer: hayashid, 23-Jan-2019 16:20:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_035.d
Lims ID: 720-90698-E-23-E
Client ID: DG-V13S-7.5-8
Sample Type: Client
Inject. Date: 23-Jan-2019 01:36:50 ALS Bottle#: 0 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 113 Name: 720-0056216-035
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:31:59 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:31:59

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.745	2.679	0.066	155	NC	
	23 n-Decane		3.898			ND	
A	21 Stoddard Solvent	4.628	(2.679-6.578)		37267	3.28	
A	1 C9-C13	4.628	(2.679-6.578)		37267	2.94	
A	57 C10-C12	4.839	(3.898-5.780)		21381	2.18	
	24 Dodecane	5.714	5.780	-0.066	705	NC	
A	3 C9 - C17	5.979	(2.679-9.278)		52085	3.69	
A	47 C9 - C18	6.267	(2.679-9.856)		100594	8.96	
A	60 C10-C16	6.275	(3.898-8.652)		41371	3.32	
A	25 C9-C19	6.545	(2.679-10.410)		113424	8.01	
A	15 Kerosene	6.545	(2.679-10.410)		113424	10.1	
	26 C13	6.617	6.578	0.039	290	NC	
$	27 n-Decanoic Acid (Surr)		7.196			ND	U
A	59 C12-C16	7.216	(5.780-8.652)		20695	2.11	
A	62 C10-C20	7.421	(3.898-10.944)		136186	13.9	
A	28 C9-C24	7.771	(2.679-12.863)		259737	26.5	
A	29 C9-C25	7.988	(2.679-13.297)		297125	30.3	
A	54 C10-C23	8.155	(3.898-12.412)		219859	22.4	
A	4 C10-C24	8.381	(3.898-12.863)		251163	25.6	
A	16 C10-C25	8.598	(3.898-13.297)		288551	29.4	
	45 Hexadecane	8.651	8.652	-0.001	883	NC	
A	14 C10-C26	8.807	(3.898-13.715)		331785	33.8	
A	67 C12-C22	8.862	(5.780-11.943)		162382	16.5	
A	12 Unknown Hydrocarbons	9.204	(3.898-14.509)		443995	NC	
A	32 C10-C28	9.204	(3.898-14.509)		443995	45.2	
A	5 Diesel	9.204	(3.898-14.509)		443995	45.2	
A	30 C13-C22	9.260	(6.578-11.943)		154752	15.8	
	44 Heptadecane	9.291	9.278	0.013	3372	NC	
A	31 C12-C24	9.321	(5.780-12.863)		230487	23.5	
	49 n-Octadecane	9.819	9.856	-0.037	1807	NC	
A	11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		881930	NC	
A	9 Crude Oil Range Organics (	9.700	(2.703-16.697)		1565192	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		1791805	164.9	
33 C19	10.417	10.410	0.007	2373	NC	
A 64 C13-C28	10.543	(6.578-14.509)		415689	42.3	
A 17 C10-C36	10.340	(3.983-16.697)		871335	88.7	
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		2476233	NC	
A 13 C9-C40	10.716	(2.679-18.754)		2476233	280.3	
A 58 C16-C24	10.757	(8.652-12.863)		210675	21.5	
61 icosane	10.941	10.944	-0.003	3306	NC	
A 6 C10-C40	11.326	(3.898-18.754)		2464551	279.0	
$ 34 p-Terphenyl	11.917	11.913	0.004	326861	25.9	
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		2435764	275.7	
36 Tricosane	12.410	12.412	-0.002	15113	NC	
A 66 C13-C40	12.666	(6.578-18.754)		2271107	256.5	
37 n-Tetracosane	12.862	12.863	-0.001	19016	NC	
A 2 C16-C36 ORO	12.936	(8.652-17.220)		1342185	188.1	
38 C25	13.296	13.297	-0.001	22565	NC	
A 19 C16-C40	13.703	(8.652-18.754)		2366117	267.8	
46 n-Hexacosane	13.714	13.715	-0.001	22484	NC	
A 20 C19-C36	13.815	(10.410-17.220)		958006	122.9	
A 55 C23-C32	14.179	(12.412-15.946)		593451	144.5	
39 n-Octacosane	14.508	14.509	-0.001	30392	NC	
65 C29	14.886	14.886	0.000	34673	NC	
A 7 Motor Oil	15.041	(12.863-17.220)		971856	170.3	
A 40 C24-C36	15.041	(12.863-17.220)		971856	170.3	
A 50 C25-C36	15.258	(13.297-17.220)		929325	172.7	
A 10 C22-C40	15.348	(11.943-18.754)		1325064	167.3	
A 41 C23-C40	15.583	(12.412-18.754)		1596156	206.5	
A 8 C24-C40	15.808	(12.863-18.754)		1559914	209.1	
56 Dotriacontane	15.860	15.946	-0.086	53419	NC	
A 51 C28-C40	16.631	(14.509-18.754)		1333241	240.7	
A 63 C29-C40	16.820	(14.886-18.754)		1257596	253.7	
42 n-Hexatriacontane	17.243	17.220	0.022	498145	NC	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

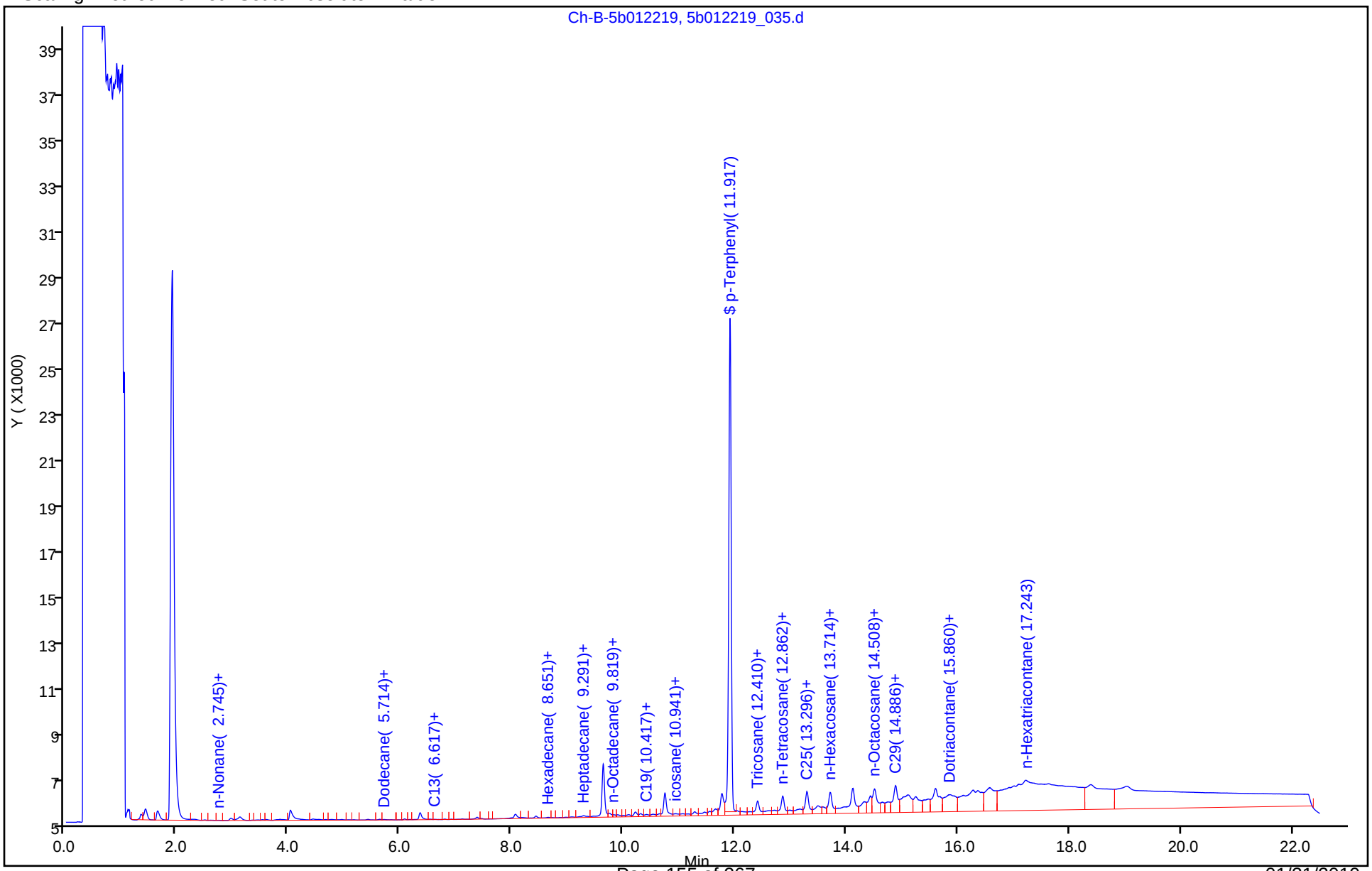
Report Date: 23-Jan-2019 16:32:00 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_035.d

Injection Date:	23-Jan-2019 01:36:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-23-E	Lab Sample ID:	720-90698-23	Worklist Smp#:	35
Client ID:	DG-V13S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_035.d				
Lims ID:	720-90698-E-23-E				
Client ID:	DG-V13S-7.5-8				
Sample Type:	Client				
Inject. Date:	23-Jan-2019 01:36:50	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 113 Name: 720-0056216-035				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	23-Jan-2019 16:31:59	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: hayashid Date: 23-Jan-2019 16:31:59

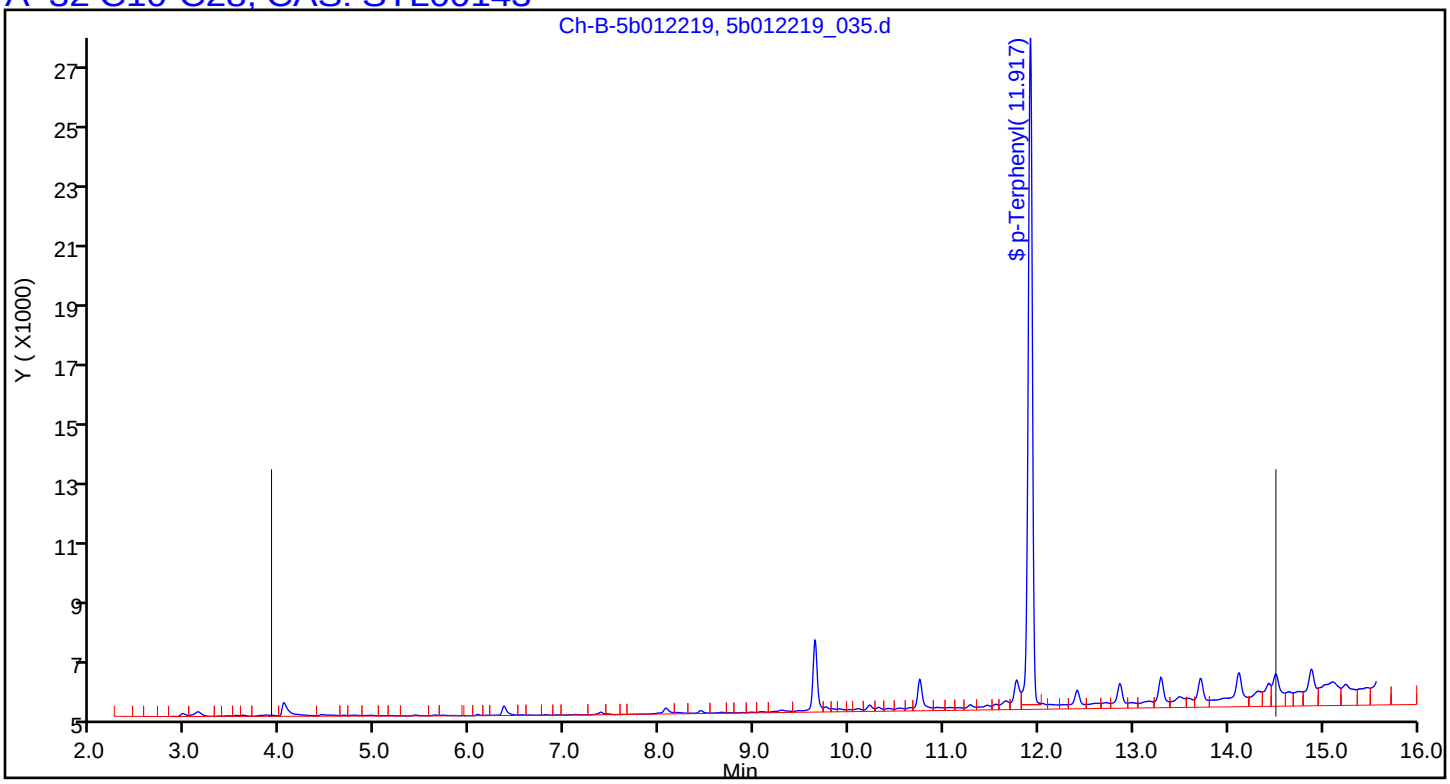
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.9	103.74

Report Date: 23-Jan-2019 16:32:01 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_035.d				
Injection Date:	23-Jan-2019 01:36:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-23-E	Lab Sample ID:	720-90698-23		
Client ID:	DG-V13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

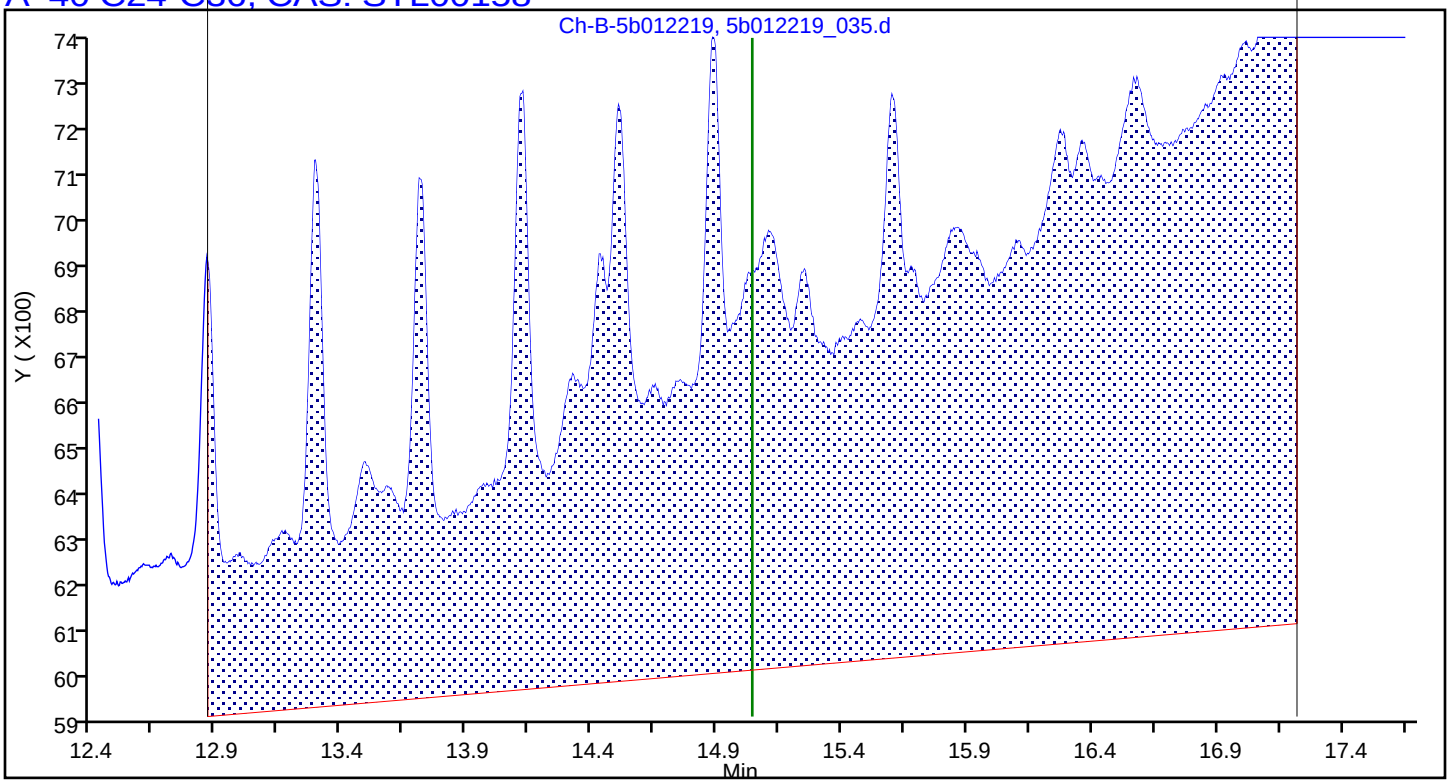


Report Date: 23-Jan-2019 16:32:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_035.d				
Injection Date:	23-Jan-2019 01:36:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-23-E	Lab Sample ID:	720-90698-23		
Client ID:	DG-V13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_017.d
Lims ID: 720-90698-E-24-D
Client ID: DG-T13S-0.5-1
Sample Type: Client
Inject. Date: 22-Jan-2019 16:26:16 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 106 Name: 720-0056216-017
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:19:22 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:19:31

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.701	2.679	0.022	1022	NC	
	23 n-Decane	3.923	3.898	0.025	3609	NC	M
A	21 Stoddard Solvent	4.628	(2.679-6.578)		59391	5.22	M
A	1 C9-C13	4.628	(2.679-6.578)		59391	4.69	M
A	57 C10-C12	4.839	(3.898-5.780)		28969	2.95	M
	24 Dodecane	5.777	5.780	-0.003	3257	NC	M
A	3 C9 - C17	5.979	(2.679-9.278)		249919	17.7	M
A	47 C9 - C18	6.267	(2.679-9.856)		354091	31.5	M
A	60 C10-C16	6.275	(3.898-8.652)		182798	14.6	M
A	25 C9-C19	6.545	(2.679-10.410)		470519	33.2	M
A	15 Kerosene	6.545	(2.679-10.410)		470519	41.8	M
	26 C13	6.530	6.578	-0.048	7755	NC	M
$	27 n-Decanoic Acid (Surr)		7.196			ND	U
A	59 C12-C16	7.216	(5.780-8.652)		157086	16.0	M
A	62 C10-C20	7.421	(3.898-10.944)		706743	72.0	M
A	28 C9-C24	7.771	(2.679-12.863)		2275801	231.8	M
A	29 C9-C25	7.988	(2.679-13.297)		2599206	264.7	M
A	54 C10-C23	8.155	(3.898-12.412)		1618200	164.8	M
A	4 C10-C24	8.381	(3.898-12.863)		2267402	230.9	M
A	16 C10-C25	8.598	(3.898-13.297)		2590807	263.9	M
	45 Hexadecane	8.650	8.652	-0.002	8689	NC	M
A	14 C10-C26	8.807	(3.898-13.715)		3196183	325.5	M
A	67 C12-C22	8.862	(5.780-11.943)		1410078	143.6	M
A	12 Unknown Hydrocarbons	9.204	(3.898-14.509)		4239306	NC	M
A	32 C10-C28	9.204	(3.898-14.509)		4239306	431.8	M
A	5 Diesel	9.204	(3.898-14.509)		4239306	431.8	M
A	30 C13-C22	9.260	(6.578-11.943)		1392553	141.8	M
	44 Heptadecane	9.293	9.278	0.015	35699	NC	M
A	31 C12-C24	9.321	(5.780-12.863)		2241690	228.3	M
	49 n-Octadecane	9.897	9.856	0.041	39039	NC	M
A	11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		13002310	NC	M
A	9 Crude Oil Range Organics (	9.950	(2.679-17.220)		9295505	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		9295505	855.6	
33 C19	10.417	10.410	0.007	70414	NC	M
A 64 C13-C28	10.543	(6.578-14.509)		4196069	427.4	M
A 17 C10-C36	10.559	(3.898-17.220)		12993911	1323.4	M
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		11165751	NC	
A 13 C9-C40	10.716	(2.679-18.754)		11165751	1419.0	
A 58 C16-C24	10.757	(8.652-12.863)		2093293	213.2	M
61 icosane	10.967	10.944	0.023	70137	NC	M
A 6 C10-C40	11.326	(3.898-18.754)		11154639	1417.8	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		11118672	1413.5	
36 Tricosane	12.427	12.412	0.015	213196	NC	M
A 66 C13-C40	12.666	(6.578-18.754)		10705920	1363.8	
37 n-Tetracosane	12.850	12.863	-0.013	143984	NC	M
A 2 C16-C36 ORO	12.936	(8.652-17.220)		7391422	1036.1	
38 C25	13.303	13.297	0.006	147638	NC	M
A 19 C16-C40	13.703	(8.652-18.754)		10934754	1392.1	
46 n-Hexacosane	13.713	13.715	-0.002	122449	NC	M
A 20 C19-C36	13.815	(10.410-17.220)		6877923	882.0	
A 55 C23-C32	14.179	(12.412-15.946)		4737466	1153.4	
39 n-Octacosane	14.403	14.509	-0.106	257681	NC	M
65 C29	14.903	14.886	0.017	216641	NC	M
A 7 Motor Oil	15.041	(12.863-17.220)		6449397	1129.8	
A 40 C24-C36	15.041	(12.863-17.220)		6449397	1129.8	
A 50 C25-C36	15.258	(13.297-17.220)		6049365	1124.1	
A 10 C22-C40	15.348	(11.943-18.754)		8861040	1118.5	
A 41 C23-C40	15.583	(12.412-18.754)		8528560	1103.2	
A 8 C24-C40	15.808	(12.863-18.754)		8138173	1091.1	
56 Dotriacontane	15.900	15.946	-0.046	356956	NC	M
A 51 C28-C40	16.631	(14.509-18.754)		6270397	1268.9	
A 63 C29-C40	16.820	(14.886-18.754)		5676304	1292.6	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

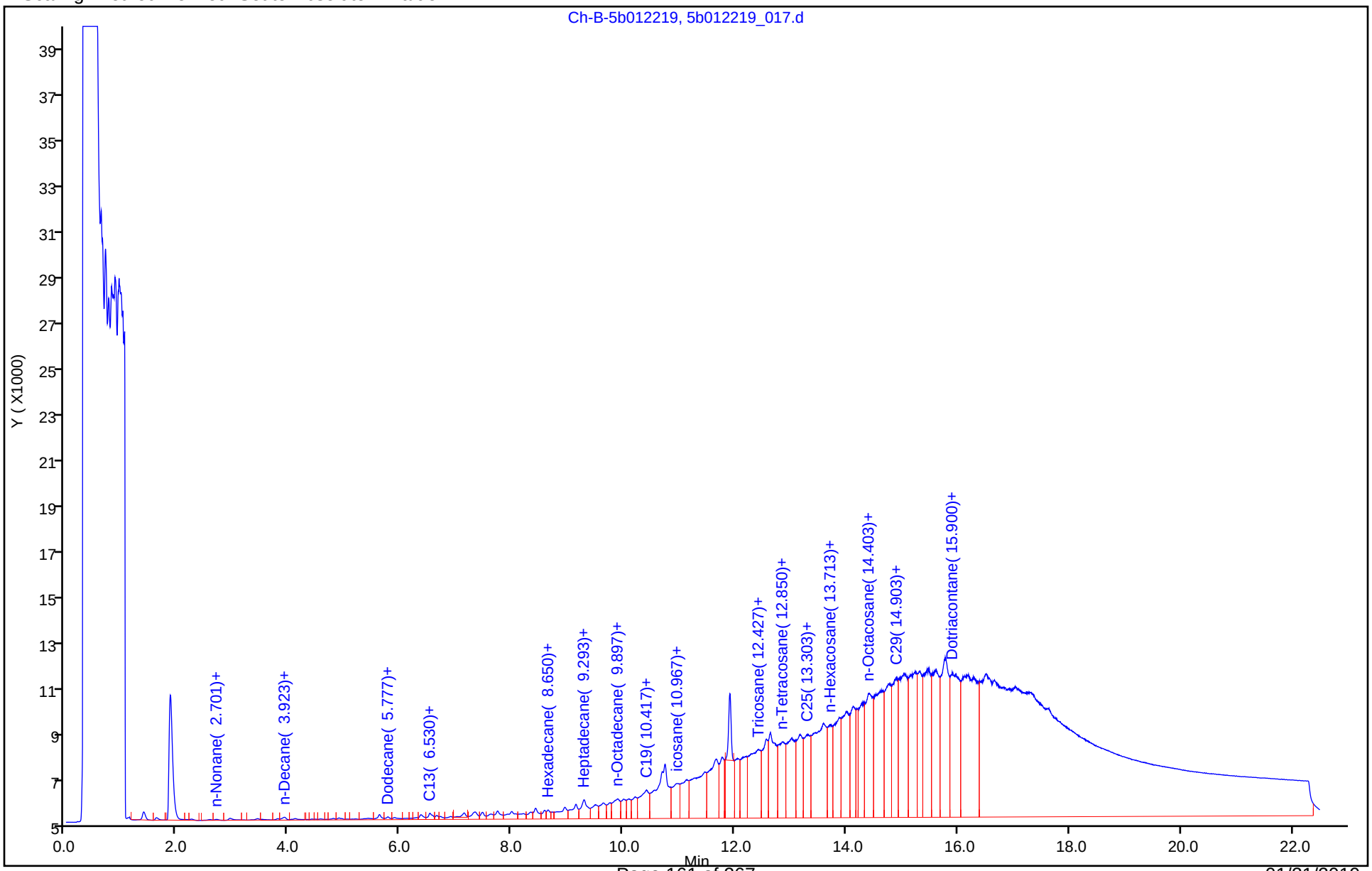
Report Date: 23-Jan-2019 16:19:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_017.d

Injection Date:	22-Jan-2019 16:26:16	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-24-D	Lab Sample ID:	720-90698-24	Worklist Smp#:	17
Client ID:	DG-T13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

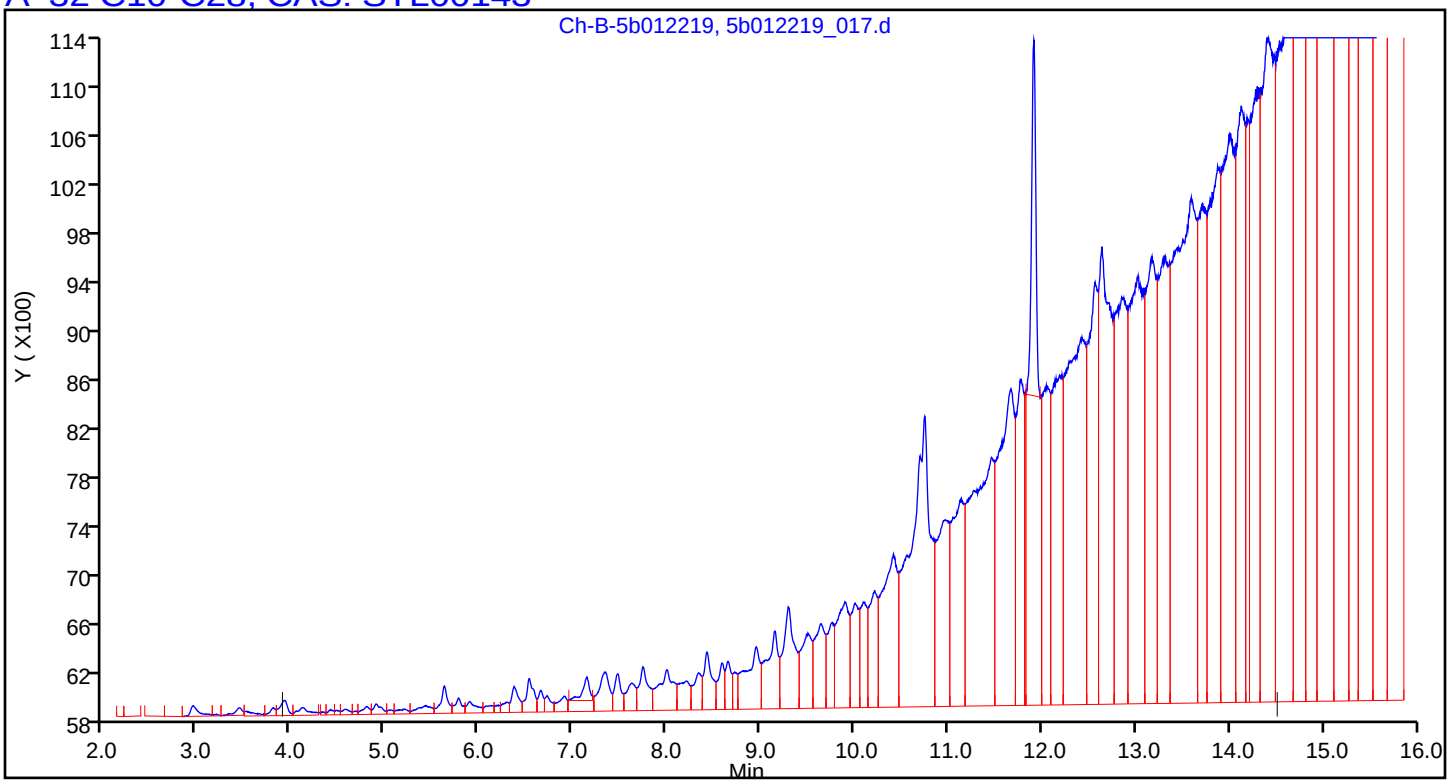


Report Date: 23-Jan-2019 16:19:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_017.d				
Injection Date:	22-Jan-2019 16:26:16	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-24-D	Lab Sample ID:	720-90698-24		
Client ID:	DG-T13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

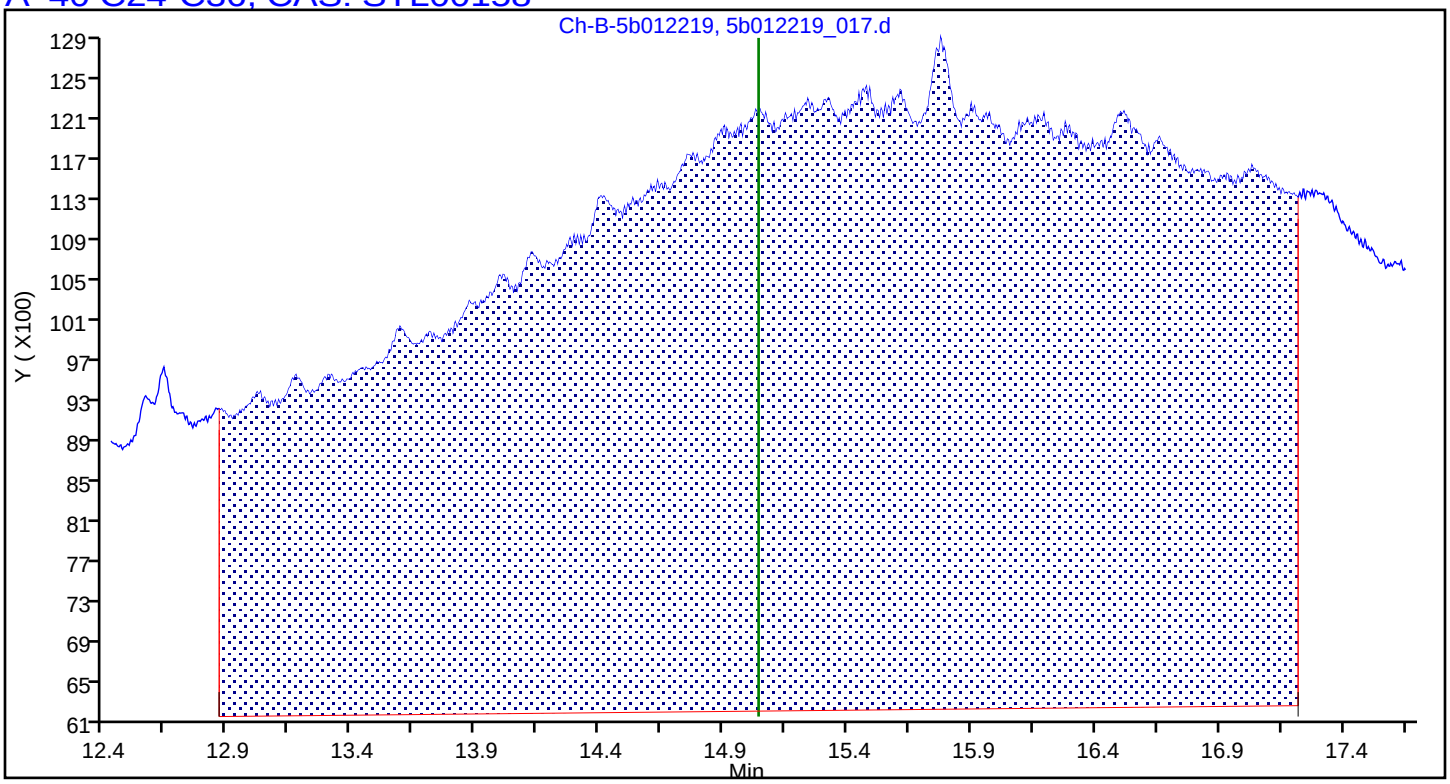


Report Date: 23-Jan-2019 16:19:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_017.d				
Injection Date:	22-Jan-2019 16:26:16	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-24-D	Lab Sample ID:	720-90698-24		
Client ID:	DG-T13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

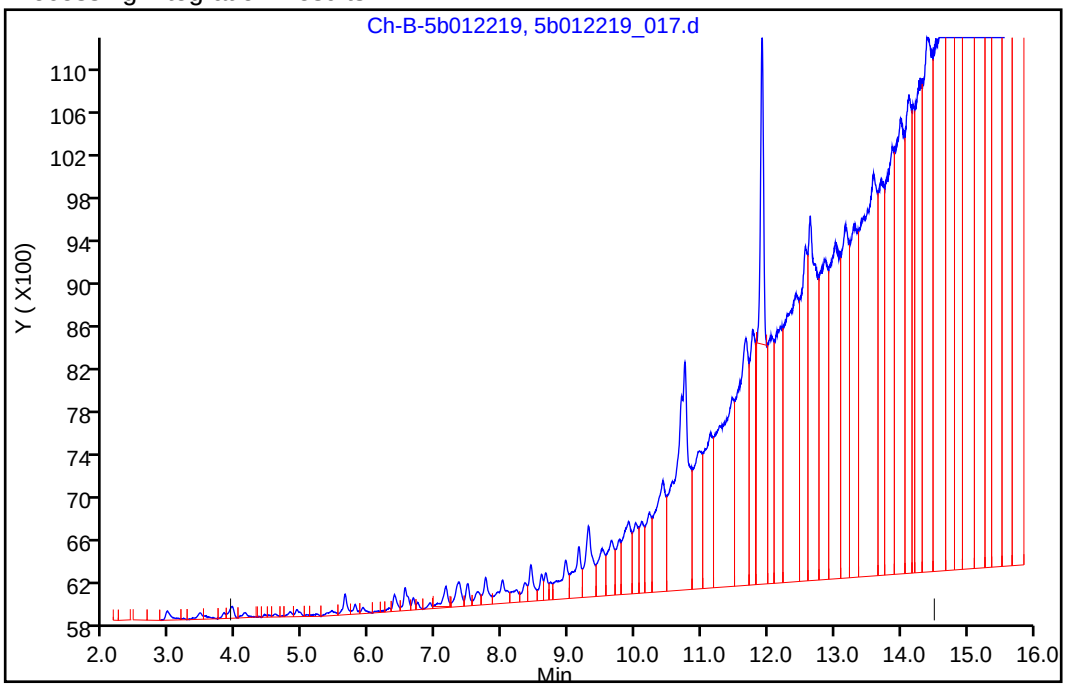
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Injection Date:	22-Jan-2019 16:26:16	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-24-D	Lab Sample ID:	720-90698-24		
Client ID:	DG-T13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.204, CAS: STL00143

Signal: 1

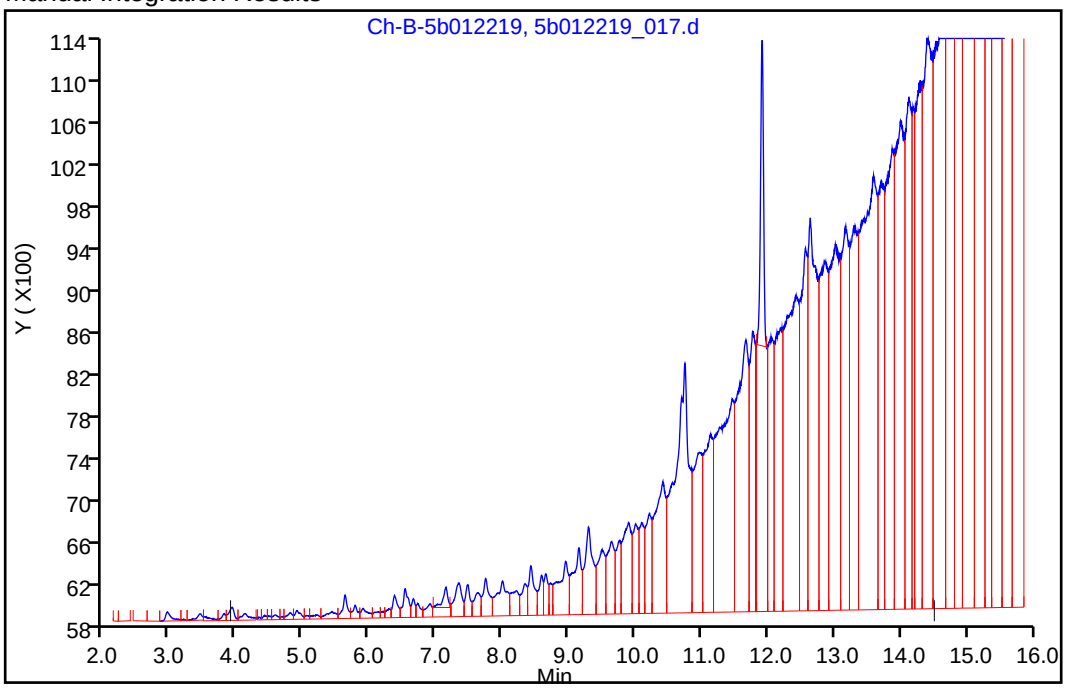
Processing Integration Results

RT: 9.20
Response: 3618686
Amount: 368.5686



Manual Integration Results

RT: 9.20
Response: 4239306
Amount: 431.7797



Reviewer: hayashid, 23-Jan-2019 16:19:17

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

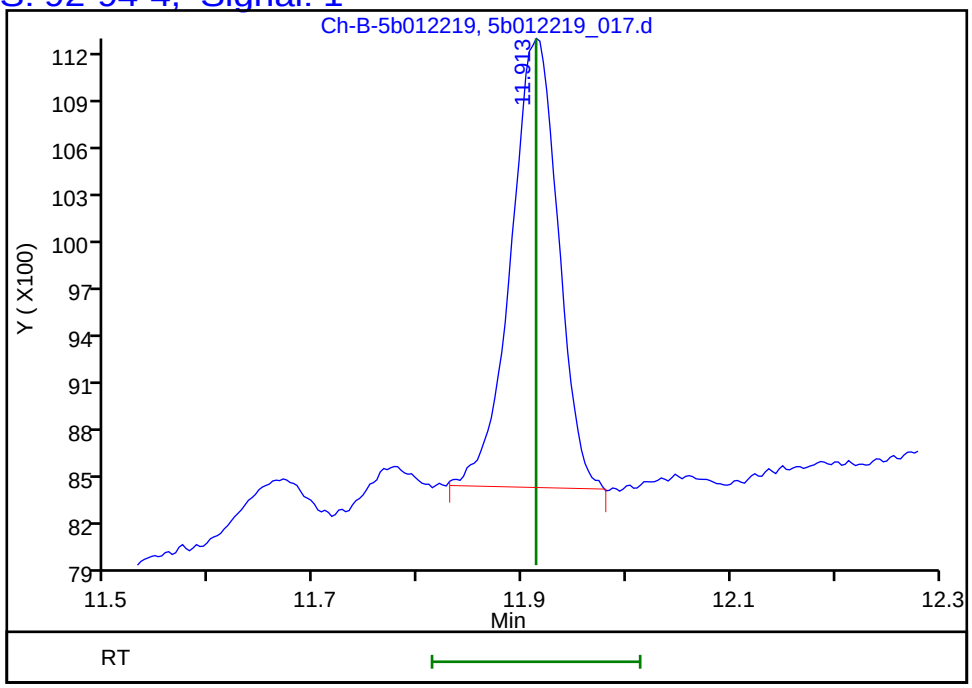
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_017.d				
Injection Date:	22-Jan-2019 16:26:16	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-24-D	Lab Sample ID:	720-90698-24		
Client ID:	DG-T13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 45353
Amount: 3.598627



Reviewer: hayashid, 23-Jan-2019 16:19:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_009.d
Lims ID: 720-90698-E-25-C
Client ID: DG-T13S-3.5-4
Sample Type: Client
Inject. Date: 18-Jan-2019 11:55:34 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056158-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m
Limit Group: DRO
Last Update: 18-Jan-2019 13:07:50 Calib Date: 18-Jan-2019 08:58:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 18-Jan-2019 13:08:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.482	2.548	-0.066	499	NC	
23 n-Decane	3.828	3.794	0.034	1280	NC	
A 21 Stoddard Solvent	4.531	(2.548-6.514)		17649	NC	
A 1 C9-C13	4.531	(2.548-6.514)		17649	NC	
A 57 C10-C12	4.752	(3.794-5.710)		7661	0.7817	
24 Dodecane	5.722	5.710	0.012	1652	NC	
A 3 C9 - C17	5.896	(2.548-9.244)		66974	5.53	
A 47 C9 - C18	6.183	(2.548-9.817)		94682	8.80	
A 60 C10-C16	6.200	(3.794-8.605)		50313	4.56	
A 25 C9-C19	6.462	(2.548-10.375)		94682	7.76	
A 15 Kerosene	6.462	(2.548-10.375)		94682	8.78	
26 C13	6.511	6.514	-0.003	4697	NC	
$ 27 n-Decanoic Acid (Surr)		7.155			ND	
A 59 C12-C16	7.157	(5.710-8.605)		42652	4.35	
A 62 C10-C20	7.353	(3.794-10.912)		148551	15.2	
A 28 C9-C24	7.695	(2.548-12.842)		422361	43.1	
A 29 C9-C25	7.914	(2.548-13.279)		495497	50.6	
A 54 C10-C23	8.091	(3.794-12.389)		273777	27.9	
A 4 C10-C24	8.318	(3.794-12.842)		419765	42.8	
A 16 C10-C25	8.536	(3.794-13.279)		492901	50.3	
45 Hexadecane	8.558	8.605	-0.047	6407	NC	
A 14 C10-C26	8.747	(3.794-13.700)		578812	59.1	
A 67 C12-C22	8.813	(5.710-11.916)		204158	20.8	
A 5 Diesel	9.146	(3.794-14.499)		830656	84.8	
A 32 C10-C28	9.146	(3.794-14.499)		830656	84.8	
A 12 Unknown Hydrocarbons	9.146	(3.794-14.499)		830656	NC	
A 30 C13-C22	9.215	(6.514-11.916)		201463	20.6	
44 Heptadecane	9.254	9.244	0.010	7406	NC	
A 31 C12-C24	9.276	(5.710-12.842)		412104	42.0	
49 n-Octadecane	9.737	9.817	-0.080	12073	NC	
A 11 Bunker Range Organics (C9-	9.889	(2.548-17.229)		1661640	NC	
A 52 Mineral oil	9.889	(2.548-17.229)		2079946	185.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.889	(2.548-17.229)		2079946	NC	
33 C19	10.391	10.375	0.016	21897	NC	
A 64 C13-C28	10.507	(6.514-14.499)		820300	83.7	
A 17 C10-C36	10.512	(3.794-17.229)		1659044	169.3	
A 68 Crude Oil Range Organics (	10.665	(2.548-18.782)		2567334	NC	
A 13 C9-C40	10.665	(2.548-18.782)		2567334	283.7	
A 58 C16-C24	10.724	(8.605-12.842)		375859	38.3	
61 icosane		10.912			ND	
A 6 C10-C40	11.288	(3.794-18.782)		2562525	283.6	
$ 34 p-Terphenyl	11.897	11.908	-0.011	329379	27.6	
35 n-Docosane		11.916			ND	
A 18 C12-C40	12.246	(5.710-18.782)		2545010	281.9	
36 Tricosane	12.390	12.389	0.001	47179	NC	
A 66 C13-C40	12.648	(6.514-18.782)		2534338	280.7	
37 n-Tetracosane	12.839	12.842	-0.003	98809	NC	
A 2 C16-C36 ORO	12.917	(8.605-17.229)		1980639	261.0	
38 C25	13.277	13.279	-0.002	40083	NC	
A 19 C16-C40	13.694	(8.605-18.782)		2468027	272.7	
46 n-Hexacosane	13.697	13.700	-0.003	85911	NC	
A 20 C19-C36	13.802	(10.375-17.229)		1556955	180.4	
A 55 C23-C32	14.167	(12.389-15.946)		1167510	245.5	
39 n-Octacosane	14.477	14.499	-0.022	138518	NC	
65 C29	14.877	14.878	-0.001	192598	NC	
A 40 C24-C36	15.036	(12.842-17.229)		1319790	216.6	
A 7 Motor Oil	15.036	(12.842-17.229)		1319790	216.6	
A 50 C25-C36	15.254	(13.279-17.229)		1233665	213.2	
A 10 C22-C40	15.349	(11.916-18.782)		1595074	190.8	
A 41 C23-C40	15.585	(12.389-18.782)		1805185	220.1	
A 8 C24-C40	15.812	(12.842-18.782)		1734482	218.0	
56 Dotriacontane	15.927	15.946	-0.019	74071	NC	
A 51 C28-C40	16.641	(14.499-18.782)		1334765	191.8	
A 63 C29-C40	16.830	(14.878-18.782)		1198780	186.8	
42 n-Hexatriacontane	17.295	17.229	0.066	128810	NC	
43 C40		18.782			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

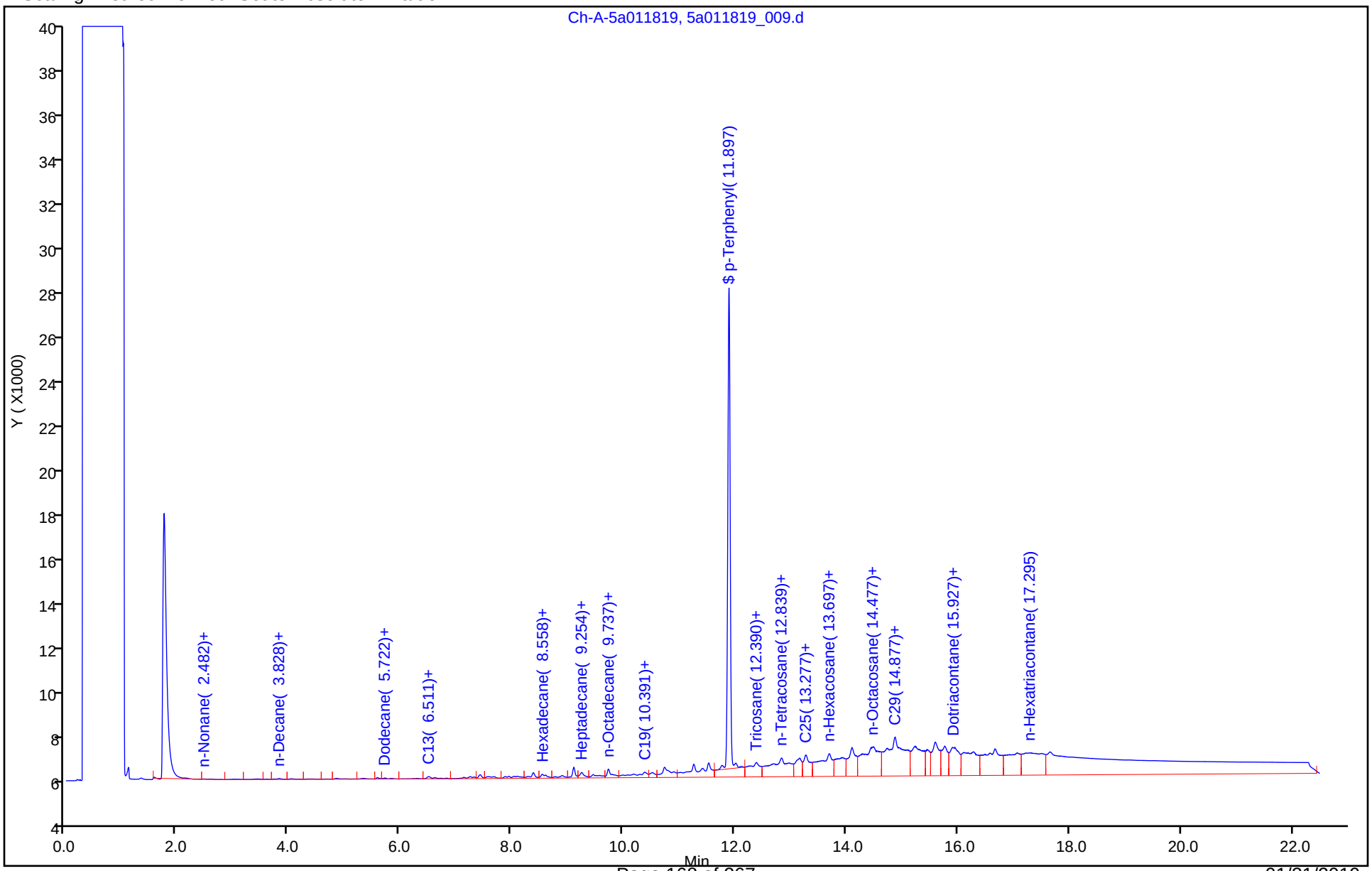
Report Date: 18-Jan-2019 13:08:18 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_009.d

Injection Date:	18-Jan-2019 11:55:34	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-25-C	Lab Sample ID:	720-90698-25	Worklist Smp#:	9
Client ID:	DG-T13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_009.d				
Lims ID:	720-90698-E-25-C				
Client ID:	DG-T13S-3.5-4				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 11:55:34	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056158-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	18-Jan-2019 13:07:50	Calib Date:	18-Jan-2019 08:58:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				
First Level Reviewer: hayashid		Date:	18-Jan-2019 13:08:18		

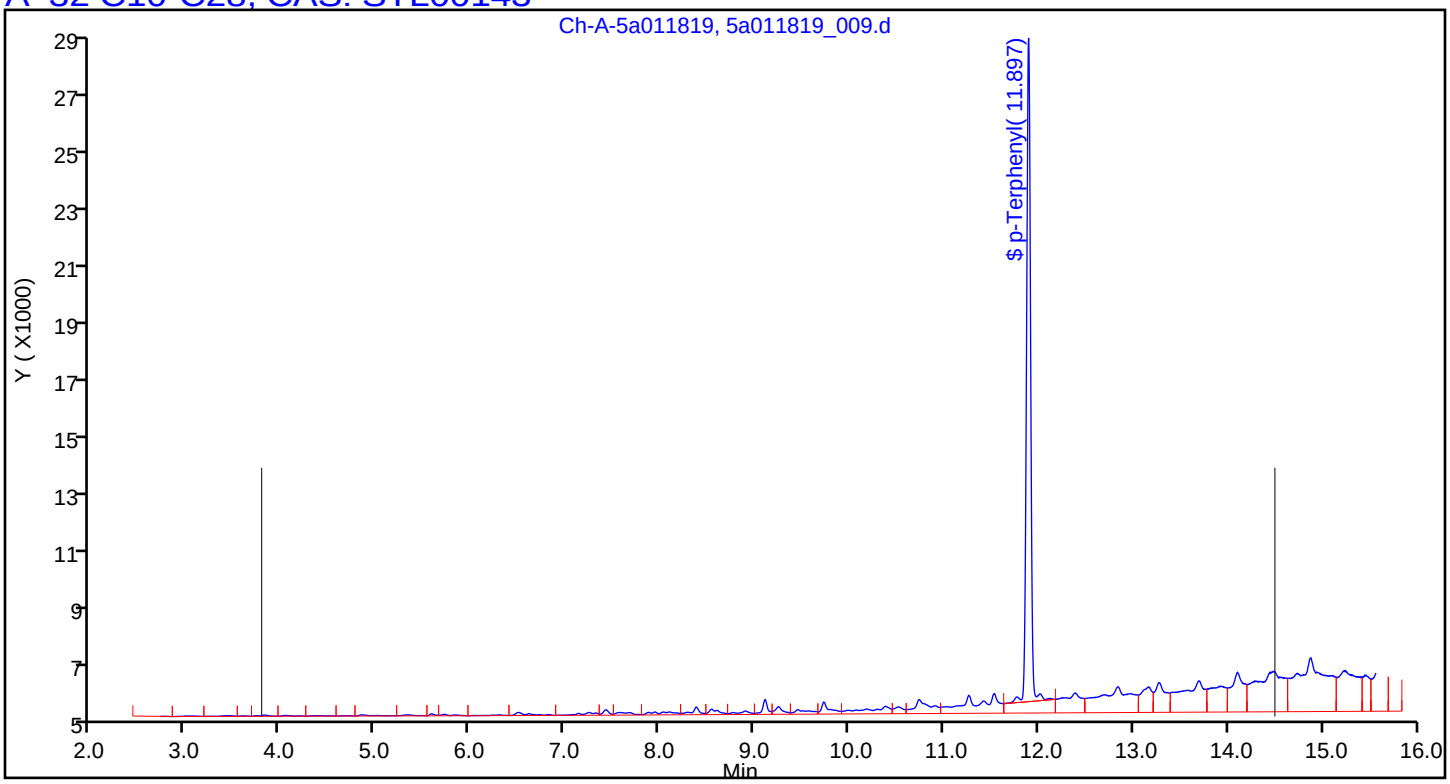
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	0	27.6	0.00

Report Date: 18-Jan-2019 13:08:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_009.d				
Injection Date:	18-Jan-2019 11:55:34	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-25-C	Lab Sample ID:	720-90698-25		
Client ID:	DG-T13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

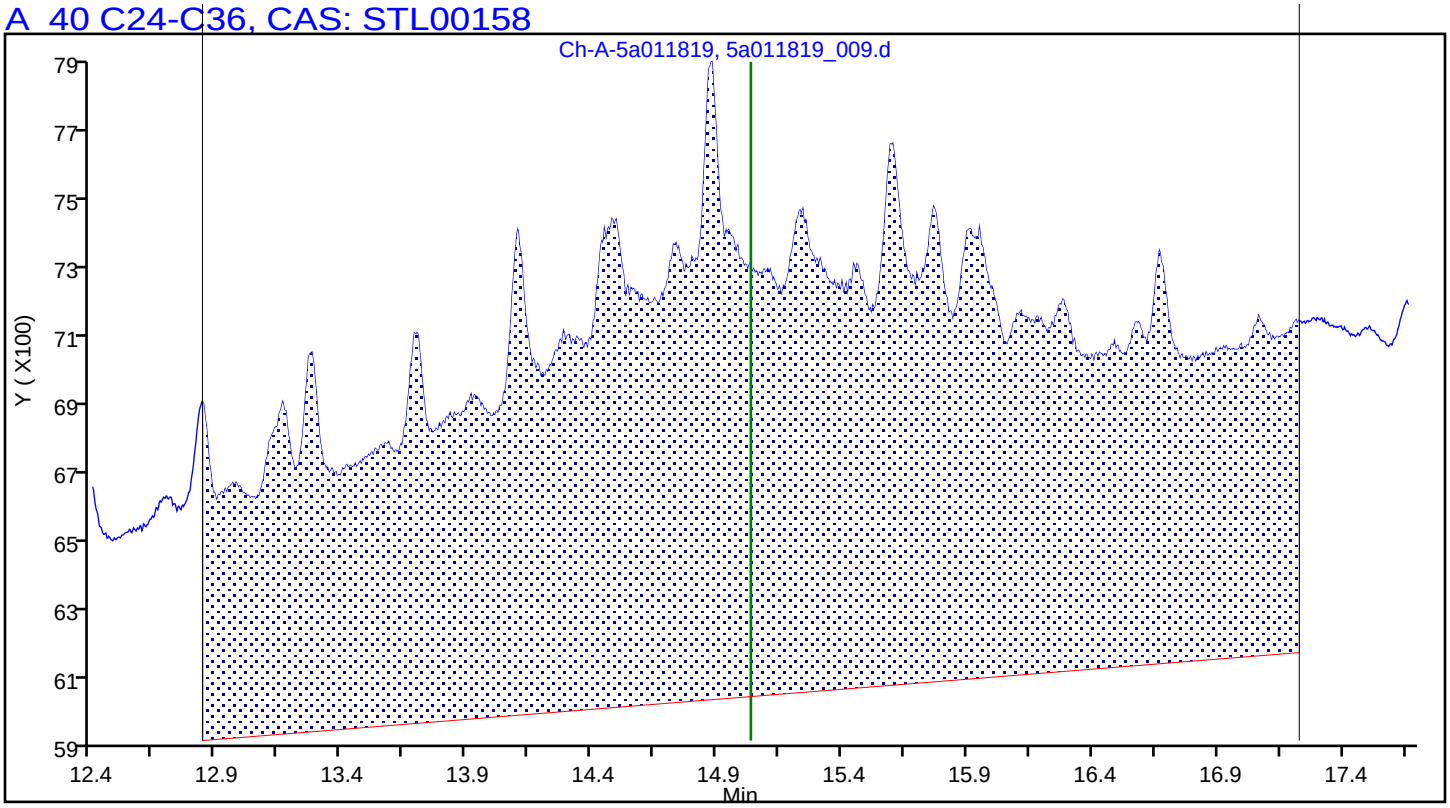


Report Date: 18-Jan-2019 13:08:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190118-56158.b\5a011819_009.d				
Injection Date:	18-Jan-2019 11:55:34	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-25-C	Lab Sample ID:	720-90698-25		
Client ID:	DG-T13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_015.d
Lims ID: 720-90698-E-26-D
Client ID: DUP-91
Sample Type: Client
Inject. Date: 22-Jan-2019 15:27:59 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 104 Name: 720-0056216-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:18:38 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:17:03

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.694	2.679	0.015	827	NC	
23 n-Decane	3.893	3.898	-0.005	1809	NC	
A 21 Stoddard Solvent	4.628	(2.679-6.578)		30566	2.69	M
A 1 C9-C13	4.628	(2.679-6.578)		30566	2.41	M
A 57 C10-C12	4.839	(3.898-5.780)		14791	1.51	M
24 Dodecane	5.780	5.780	0.000	2352	NC	M
A 3 C9 - C17	5.979	(2.679-9.278)		152842	10.8	M
A 47 C9 - C18	6.267	(2.679-9.856)		236866	21.1	M
A 60 C10-C16	6.275	(3.898-8.652)		107458	8.61	M
A 25 C9-C19	6.545	(2.679-10.410)		337430	23.8	M
A 15 Kerosene	6.545	(2.679-10.410)		337430	30.0	M
26 C13	6.530	6.578	-0.048	4404	NC	M
$ 27 n-Decanoic Acid (Surr)		7.196			ND	U
A 59 C12-C16	7.216	(5.780-8.652)		95019	9.68	M
A 62 C10-C20	7.421	(3.898-10.944)		552666	56.3	M
A 28 C9-C24	7.771	(2.679-12.863)		2043872	208.2	M
A 29 C9-C25	7.988	(2.679-13.297)		2043872	208.2	M
A 54 C10-C23	8.155	(3.898-12.412)		1322425	134.7	M
A 4 C10-C24	8.381	(3.898-12.863)		2038782	207.7	M
A 16 C10-C25	8.598	(3.898-13.297)		2038782	207.7	M
45 Hexadecane	8.650	8.652	-0.002	6303	NC	M
A 14 C10-C26	8.807	(3.898-13.715)		2787774	283.9	M
A 67 C12-C22	8.862	(5.780-11.943)		1111859	113.2	M
A 12 Unknown Hydrocarbons	9.204	(3.898-14.509)		3889028	NC	M
A 32 C10-C28	9.204	(3.898-14.509)		3889028	396.1	M
A 5 Diesel	9.204	(3.898-14.509)		3889028	396.1	M
A 30 C13-C22	9.260	(6.578-11.943)		1103226	112.4	M
44 Heptadecane	9.290	9.278	0.012	26756	NC	M
A 31 C12-C24	9.321	(5.780-12.863)		2026343	206.4	M
49 n-Octadecane	9.903	9.856	0.047	33153	NC	M
A 11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		12704552	NC	M
A 9 Crude Oil Range Organics (	9.950	(2.679-17.220)		9005197	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		9005197	828.9	
33 C19	10.417	10.410	0.007	64896	NC	M
A 64 C13-C28	10.543	(6.578-14.509)		3867956	394.0	M
A 17 C10-C36	10.623	(4.027-17.220)		12697653	1293.3	M
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		11005134	NC	
A 13 C9-C40	10.716	(2.679-18.754)		11005134	1398.0	
A 58 C16-C24	10.757	(8.652-12.863)		1937627	197.4	M
61 icosane		10.944			ND	
A 6 C10-C40	11.326	(3.898-18.754)		10997115	1397.1	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		10972373	1394.4	
36 Tricosane	12.413	12.412	0.001	312720	NC	M
A 66 C13-C40	12.666	(6.578-18.754)		10667712	1358.8	
37 n-Tetracosane	12.860	12.863	-0.003	152265	NC	M
A 2 C16-C36 ORO	12.936	(8.652-17.220)		7275316	1019.8	
38 C25		13.297			ND	
A 19 C16-C40	13.703	(8.652-18.754)		10840315	1379.8	
46 n-Hexacosane		13.715			ND	
A 20 C19-C36	13.815	(10.410-17.220)		6785451	870.2	
A 55 C23-C32	14.179	(12.412-15.946)		4621397	1125.1	
39 n-Octacosane	14.437	14.509	-0.072	412685	NC	M
65 C29	14.920	14.886	0.034	230571	NC	M
A 7 Motor Oil	15.041	(12.863-17.220)		6410852	1123.1	
A 40 C24-C36	15.041	(12.863-17.220)		6410852	1123.1	
A 50 C25-C36	15.258	(13.297-17.220)		6014707	1117.7	
A 10 C22-C40	15.348	(11.943-18.754)		8960949	1131.1	
A 41 C23-C40	15.583	(12.412-18.754)		8622539	1115.3	
A 8 C24-C40	15.808	(12.863-18.754)		8252089	1106.3	
56 Dotriacontane	15.903	15.946	-0.043	359085	NC	M
A 51 C28-C40	16.631	(14.509-18.754)		6419374	1300.0	
A 63 C29-C40	16.820	(14.886-18.754)		5836197	1330.2	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

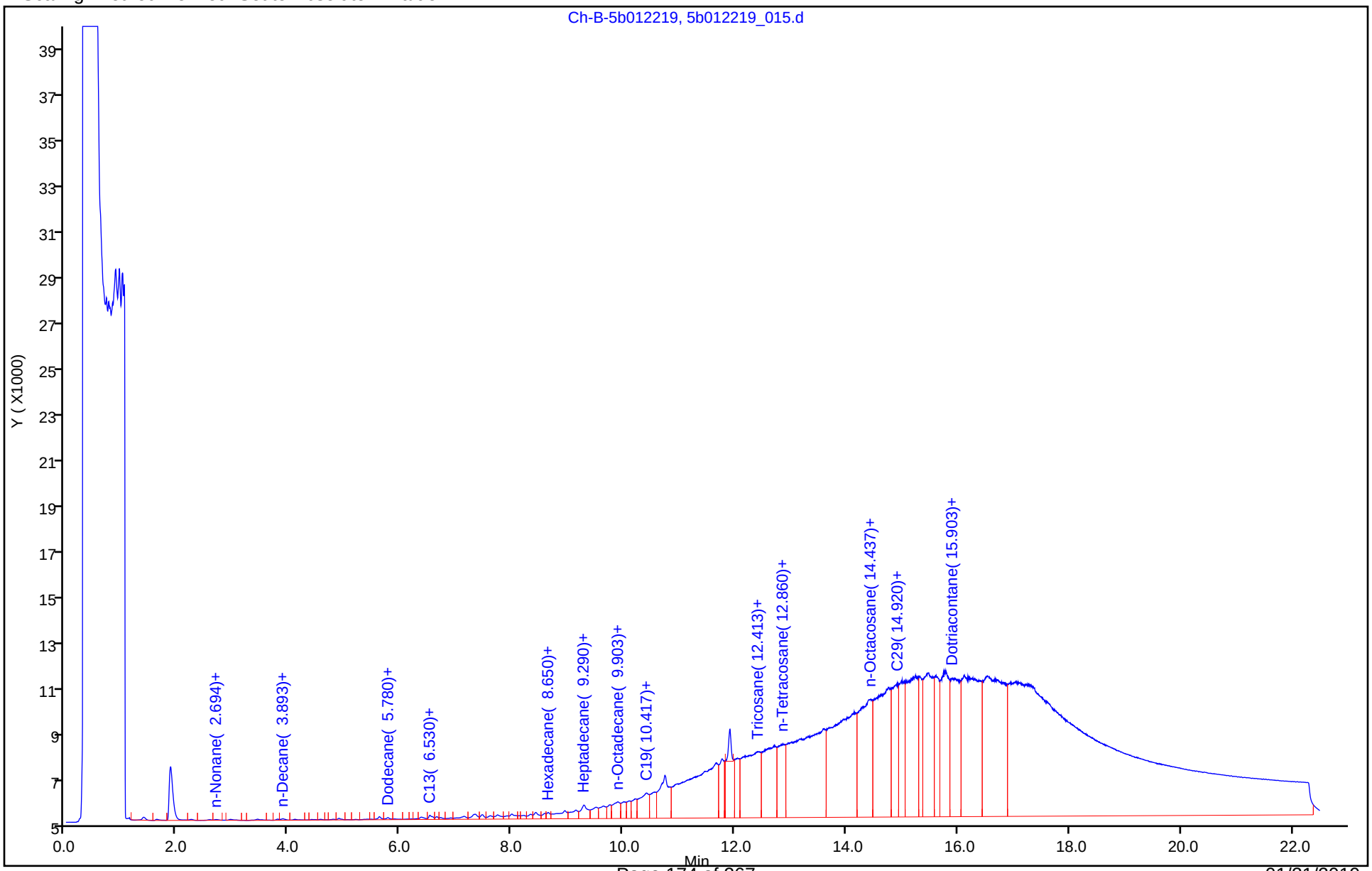
Report Date: 23-Jan-2019 16:18:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_015.d

Injection Date:	22-Jan-2019 15:27:59	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-26-D	Lab Sample ID:	720-90698-26	Worklist Smp#:	15
Client ID:	DUP-91				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

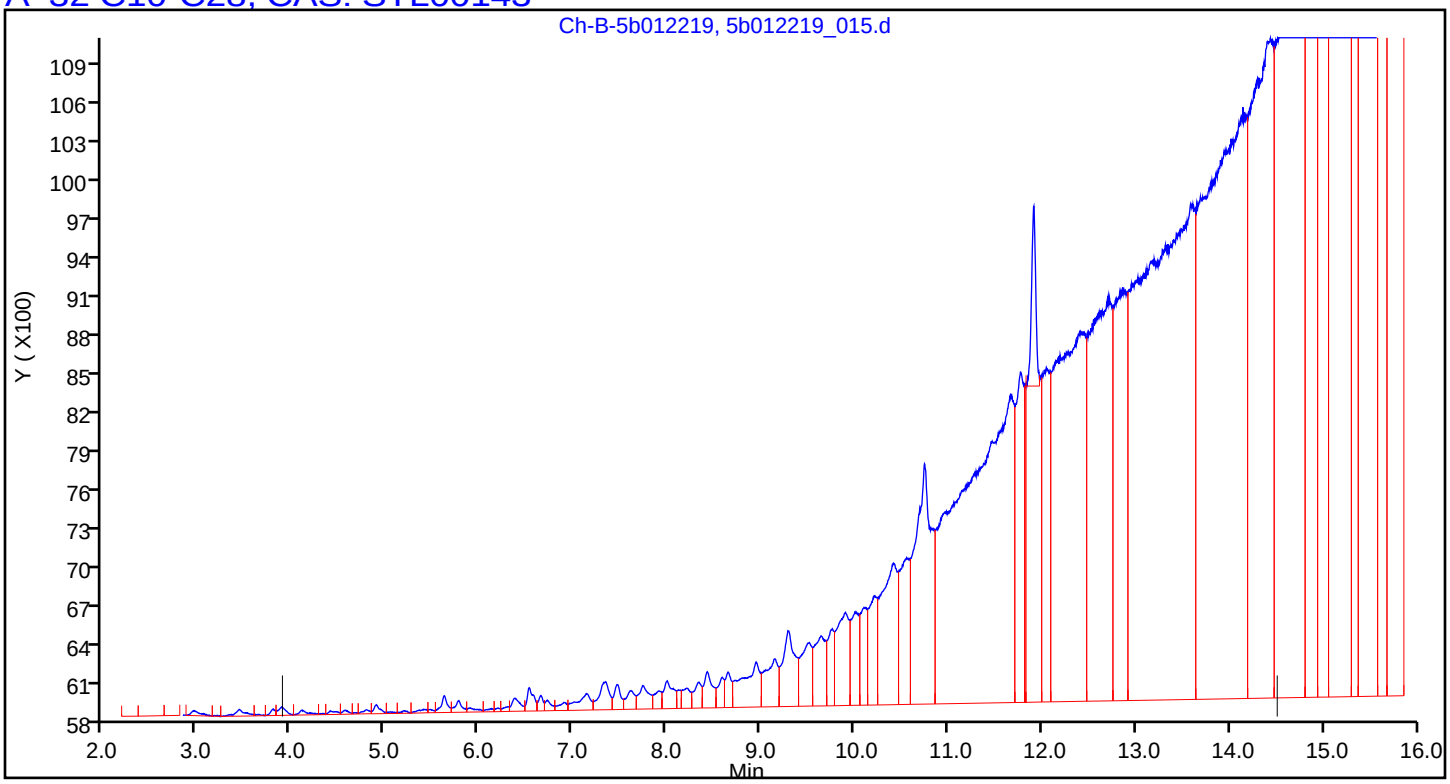


Report Date: 23-Jan-2019 16:18:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_015.d				
Injection Date:	22-Jan-2019 15:27:59	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-26-D	Lab Sample ID:	720-90698-26		
Client ID:	DUP-91				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

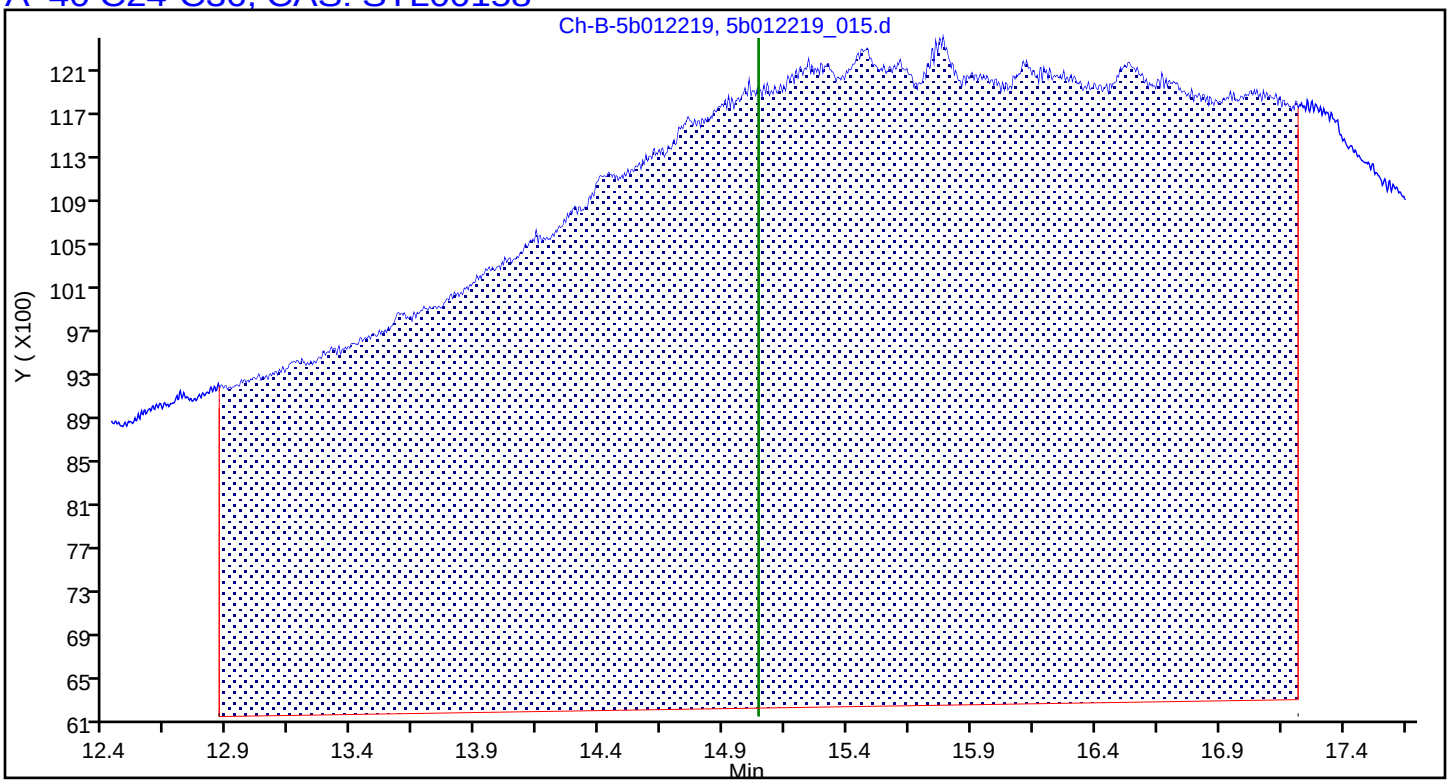


Report Date: 23-Jan-2019 16:18:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_015.d				
Injection Date:	22-Jan-2019 15:27:59	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-26-D	Lab Sample ID:	720-90698-26		
Client ID:	DUP-91				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

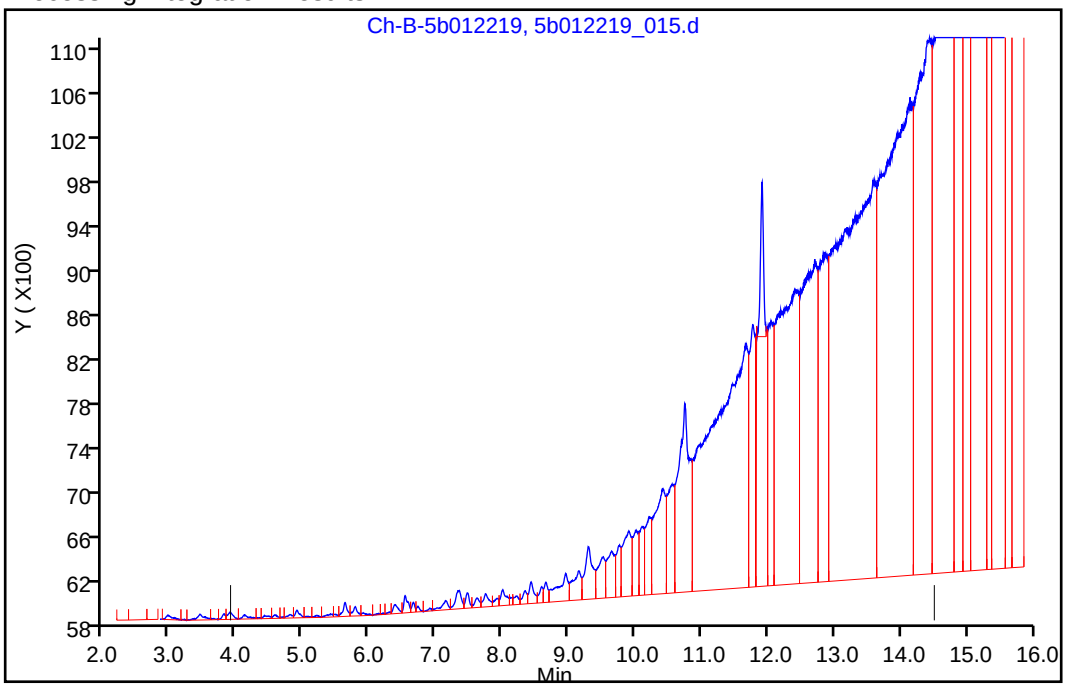
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Injection Date:	22-Jan-2019 15:27:59	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-26-D	Lab Sample ID:	720-90698-26		
Client ID:	DUP-91				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.204, CAS: STL00143

Signal: 1

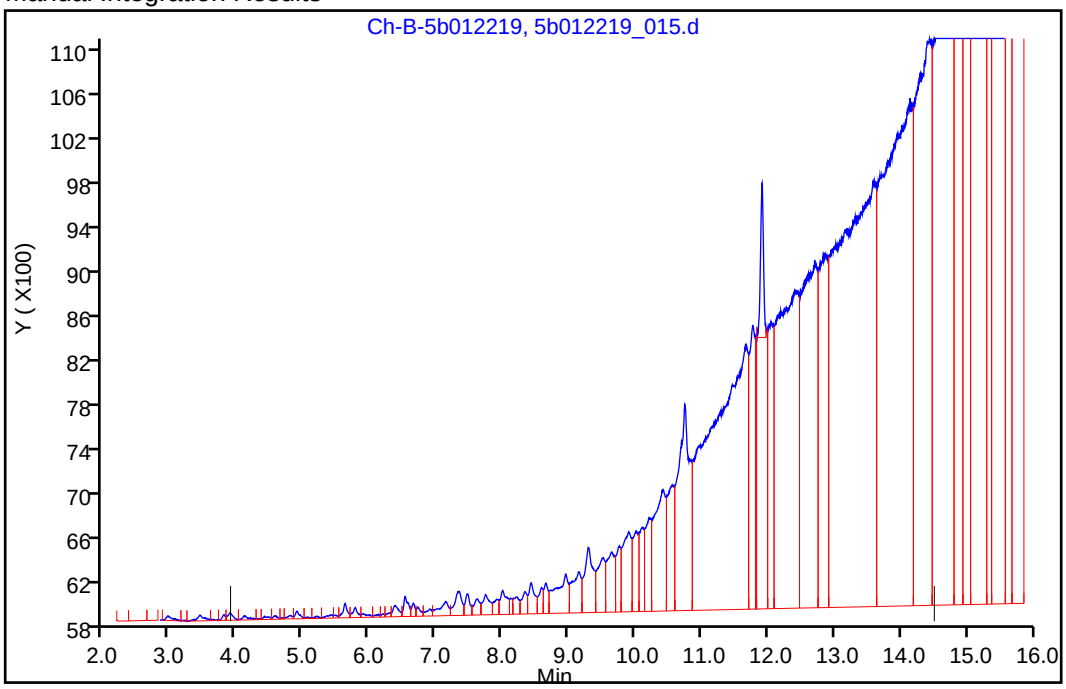
Processing Integration Results

RT: 9.20
Response: 3467867
Amount: 353.2075



Manual Integration Results

RT: 9.20
Response: 3889028
Amount: 396.1033



Reviewer: hayashid, 23-Jan-2019 16:18:36

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

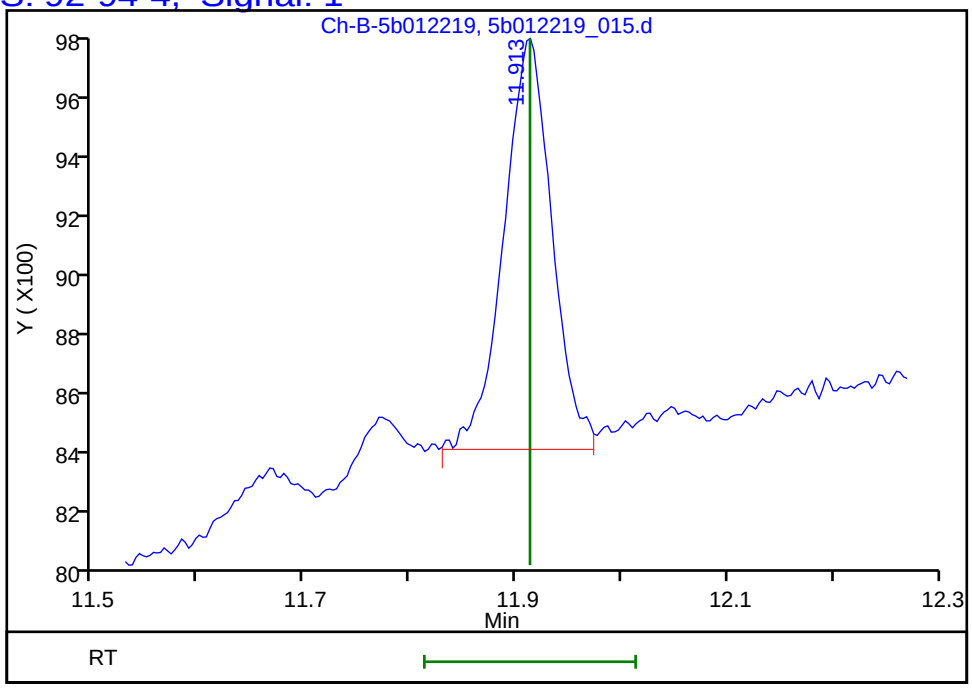
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_015.d				
Injection Date:	22-Jan-2019 15:27:59	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-26-D	Lab Sample ID:	720-90698-26		
Client ID:	DUP-91				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 21941
Amount: 1.740954



Reviewer: hayashid, 23-Jan-2019 16:17:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_037.d
Lims ID: 720-90698-E-27-D
Client ID: DG-P13S-0.5-1
Sample Type: Client
Inject. Date: 23-Jan-2019 02:34:50 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 103 Name: 720-0056216-037
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:36:57 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:36:57

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.733	2.679	0.054	502	NC	
	23 n-Decane	3.851	3.898	-0.047	1843	NC	
A	21 Stoddard Solvent	4.628	(2.679-6.578)		24028	2.11	
A	1 C9-C13	4.628	(2.679-6.578)		24028	1.90	
A	57 C10-C12	4.839	(3.898-5.780)		13223	1.35	
	24 Dodecane	5.831	5.780	0.051	330	NC	
A	3 C9 - C17	5.979	(2.679-9.278)		51089	3.62	
A	47 C9 - C18	6.267	(2.679-9.856)		77693	6.92	
A	60 C10-C16	6.275	(3.898-8.652)		33437	2.68	
A	25 C9-C19	6.545	(2.679-10.410)		121431	8.57	
A	15 Kerosene	6.545	(2.679-10.410)		121431	10.8	
	26 C13	6.538	6.578	-0.040	1134	NC	
$	27 n-Decanoic Acid (Surr)		7.196			ND	U
A	59 C12-C16	7.216	(5.780-8.652)		21128	2.15	
A	62 C10-C20	7.421	(3.898-10.944)		220708	22.5	
A	28 C9-C24	7.771	(2.679-12.863)		813297	82.8	
A	29 C9-C25	7.988	(2.679-13.297)		889908	90.6	
A	54 C10-C23	8.155	(3.898-12.412)		573562	58.4	
A	4 C10-C24	8.381	(3.898-12.863)		805952	82.1	
A	16 C10-C25	8.598	(3.898-13.297)		882563	89.9	
	45 Hexadecane	8.655	8.652	0.003	2877	NC	
A	14 C10-C26	8.807	(3.898-13.715)		1353197	137.8	
A	67 C12-C22	8.862	(5.780-11.943)		442633	45.1	
A	12 Unknown Hydrocarbons	9.204	(3.898-14.509)		1891246	NC	
A	32 C10-C28	9.204	(3.898-14.509)		1891246	192.6	
A	5 Diesel	9.204	(3.898-14.509)		1891246	192.6	
A	30 C13-C22	9.260	(6.578-11.943)		439393	44.8	
	44 Heptadecane	9.290	9.278	0.012	9385	NC	
A	31 C12-C24	9.321	(5.780-12.863)		793643	80.8	
	49 n-Octadecane	9.897	9.856	0.041	11735	NC	
A	11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		7198299	NC	
A	9 Crude Oil Range Organics (	9.950	(2.679-17.220)		5335988	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		5335988	491.2	
33 C19	10.414	10.410	0.004	13137	NC	
A 64 C13-C28	10.543	(6.578-14.509)		1875697	191.0	
A 17 C10-C36	10.620	(4.020-17.220)		7189111	732.2	
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		6684720	NC	
A 13 C9-C40	10.716	(2.679-18.754)		6684720	831.8	
A 58 C16-C24	10.757	(8.652-12.863)		772515	78.7	
61 icosane	10.946	10.944	0.002	20917	NC	
A 6 C10-C40	11.326	(3.898-18.754)		6675663	830.8	
$ 34 p-Terphenyl	11.913	11.913	0.000	282177	22.4	
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		6657647	829.0	
36 Tricosane	12.419	12.412	0.007	107182	NC	
A 66 C13-C40	12.666	(6.578-18.754)		6498318	811.5	
37 n-Tetracosane	12.865	12.863	0.002	76611	NC	
A 2 C16-C36 ORO	12.936	(8.652-17.220)		4463951	625.7	
38 C25	13.301	13.297	0.004	223361	NC	
A 19 C16-C40	13.703	(8.652-18.754)		6595857	822.8	
46 n-Hexacosane	13.713	13.715	-0.002	80336	NC	
A 20 C19-C36	13.815	(10.410-17.220)		3678821	471.8	
A 55 C23-C32	14.179	(12.412-15.946)		2766371	673.5	
39 n-Octacosane	14.517	14.509	0.008	78228	NC	
65 C29	14.889	14.886	0.003	116062	NC	
A 7 Motor Oil	15.041	(12.863-17.220)		3952461	692.4	
A 40 C24-C36	15.041	(12.863-17.220)		3952461	692.4	
A 50 C25-C36	15.258	(13.297-17.220)		3735787	694.2	
A 10 C22-C40	15.348	(11.943-18.754)		5283953	667.0	
A 41 C23-C40	15.583	(12.412-18.754)		5387805	696.9	
A 8 C24-C40	15.808	(12.863-18.754)		5199303	697.1	
56 Dotriacontane	15.925	15.946	-0.021	123367	NC	
A 51 C28-C40	16.631	(14.509-18.754)		4117790	820.6	
A 63 C29-C40	16.820	(14.886-18.754)		3755052	840.9	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

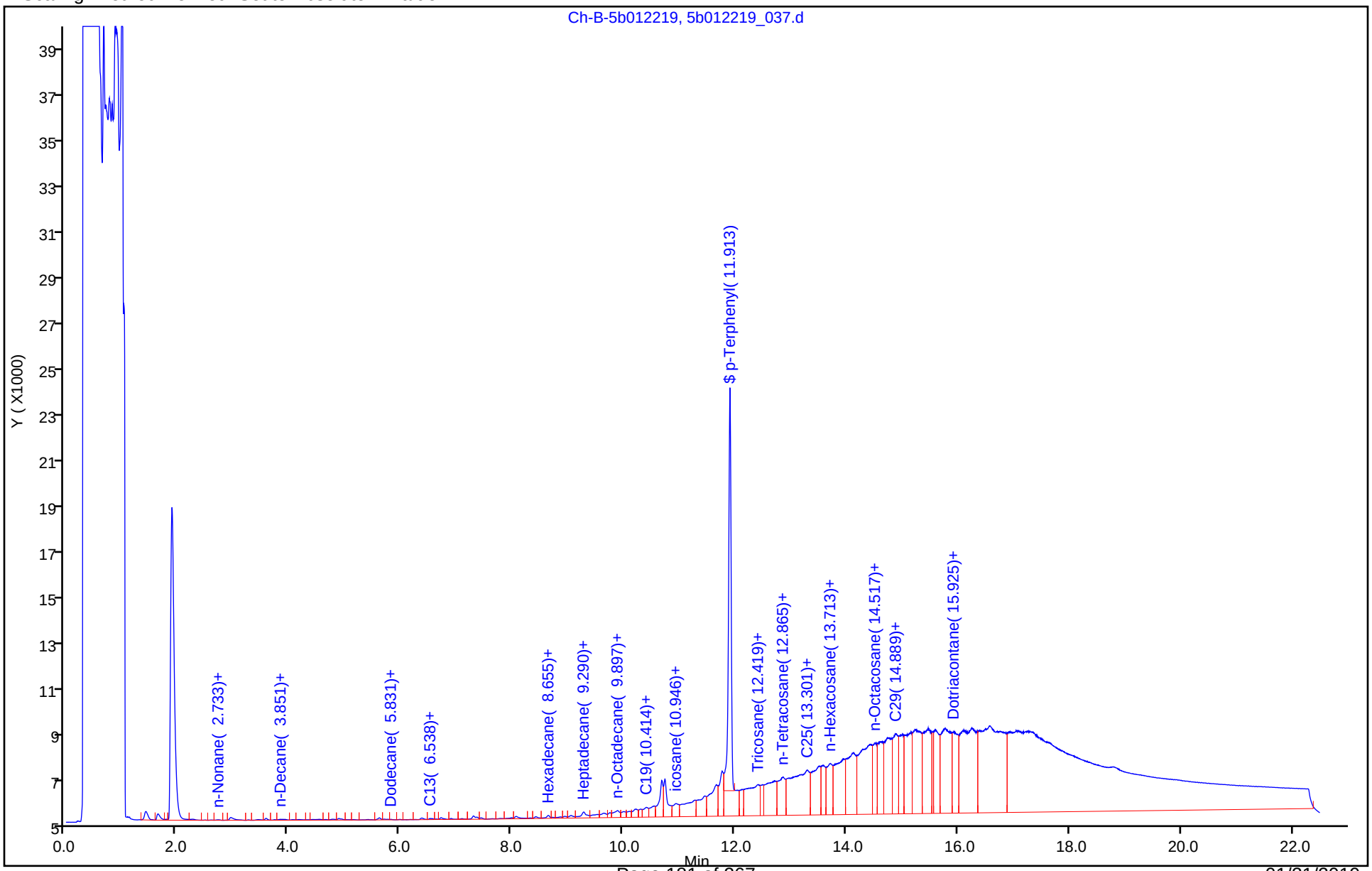
Report Date: 23-Jan-2019 16:36:58 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_037.d

Injection Date:	23-Jan-2019 02:34:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-27-D	Lab Sample ID:	720-90698-27	Worklist Smp#:	37
Client ID:	DG-P13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_037.d				
Lims ID:	720-90698-E-27-D				
Client ID:	DG-P13S-0.5-1				
Sample Type:	Client				
Inject. Date:	23-Jan-2019 02:34:50	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 103 Name: 720-0056216-037				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	23-Jan-2019 16:36:57	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				
First Level Reviewer: hayashid		Date:	23-Jan-2019 16:36:57		

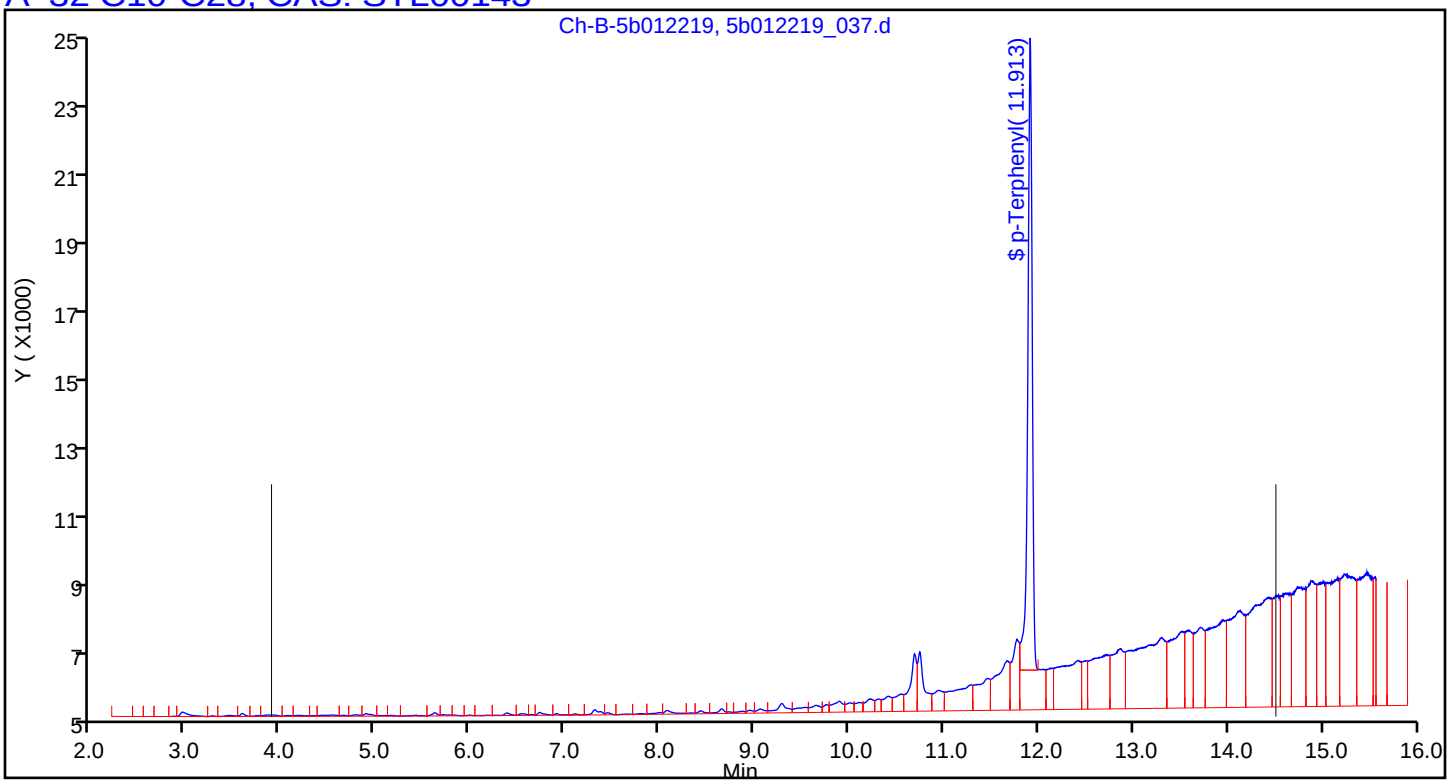
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.4	89.56

Report Date: 23-Jan-2019 16:36:59 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_037.d				
Injection Date:	23-Jan-2019 02:34:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-27-D	Lab Sample ID:	720-90698-27		
Client ID:	DG-P13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

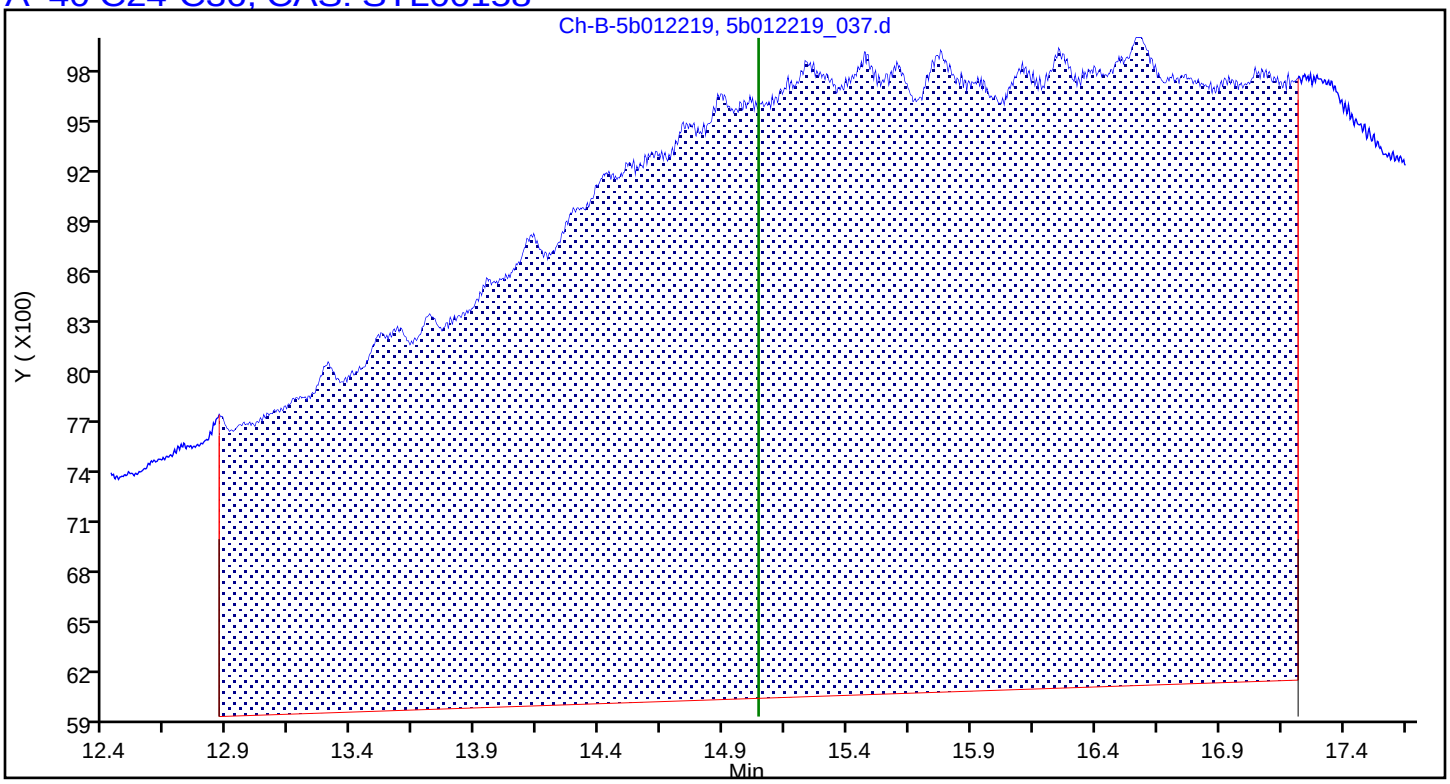


Report Date: 23-Jan-2019 16:37:00 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_037.d				
Injection Date:	23-Jan-2019 02:34:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-27-D	Lab Sample ID:	720-90698-27		
Client ID:	DG-P13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_016.d
Lims ID: 720-90698-E-28-D
Client ID: DG-P13S-3.5-4
Sample Type: Client
Inject. Date: 22-Jan-2019 15:57:19 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 105 Name: 720-0056216-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:17:53 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:17:53

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.727	2.679	0.048	522	NC	
23 n-Decane	3.933	3.898	0.035	1605	NC	
A 21 Stoddard Solvent	4.628	(2.679-6.578)		15557	1.37	M
A 1 C9-C13	4.628	(2.679-6.578)		15557	1.23	M
A 57 C10-C12	4.839	(3.898-5.780)		8763	0.8925	
24 Dodecane	5.840	5.780	0.060	270	NC	
A 3 C9 - C17	5.979	(2.679-9.278)		55037	3.90	M
A 47 C9 - C18	6.267	(2.679-9.856)		102249	9.11	M
A 60 C10-C16	6.275	(3.898-8.652)		31154	2.50	M
A 25 C9-C19	6.545	(2.679-10.410)		117508	8.30	M
A 15 Kerosene	6.545	(2.679-10.410)		117508	10.4	M
26 C13	6.537	6.578	-0.041	562	NC	M
$ 27 n-Decanoic Acid (Surr)		7.196			ND	U
A 59 C12-C16	7.216	(5.780-8.652)		24646	2.51	M
A 62 C10-C20	7.421	(3.898-10.944)		302936	30.9	M
A 28 C9-C24	7.771	(2.679-12.863)		1309179	133.3	M
A 29 C9-C25	7.988	(2.679-13.297)		1766812	180.0	M
A 54 C10-C23	8.155	(3.898-12.412)		919266	93.6	M
A 4 C10-C24	8.381	(3.898-12.863)		1304756	132.9	M
A 16 C10-C25	8.598	(3.898-13.297)		1762389	179.5	M
45 Hexadecane	8.653	8.652	0.001	4043	NC	M
A 14 C10-C26	8.807	(3.898-13.715)		2303686	234.6	M
A 67 C12-C22	8.862	(5.780-11.943)		912758	93.0	M
A 12 Unknown Hydrocarbons	9.204	(3.898-14.509)		3514206	NC	M
A 32 C10-C28	9.204	(3.898-14.509)		3514206	357.9	M
A 5 Diesel	9.204	(3.898-14.509)		3514206	357.9	M
A 30 C13-C22	9.260	(6.578-11.943)		908694	92.6	M
44 Heptadecane	9.293	9.278	0.015	12906	NC	M
A 31 C12-C24	9.321	(5.780-12.863)		1298248	132.2	M
49 n-Octadecane		9.856			ND	
A 11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		12650005	NC	M
A 9 Crude Oil Range Organics (	9.950	(2.679-17.220)		9775792	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		9775792	899.8	
33 C19		10.410			ND	
A 64 C13-C28	10.543	(6.578-14.509)		3503634	356.9	M
A 17 C10-C36	10.559	(3.898-17.220)		12645582	1288.0	M
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		11502549	NC	
A 13 C9-C40	10.716	(2.679-18.754)		11502549	1463.1	
A 58 C16-C24	10.757	(8.652-12.863)		1273602	129.7	M
61 icosane		10.944			ND	
A 6 C10-C40	11.326	(3.898-18.754)		11496165	1462.5	
$ 34 p-Terphenyl	11.913	11.913	0.000	101211	8.03	
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		11478597	1460.7	
36 Tricosane	12.413	12.412	0.001	385490	NC	M
A 66 C13-C40	12.666	(6.578-18.754)		11268837	1437.7	
37 n-Tetracosane	12.867	12.863	0.004	457633	NC	M
A 2 C16-C36 ORO	12.936	(8.652-17.220)		8531369	1195.9	
38 C25	13.303	13.297	0.006	541297	NC	M
A 19 C16-C40	13.703	(8.652-18.754)		11400094	1453.2	
46 n-Hexacosane	13.720	13.715	0.005	528689	NC	M
A 20 C19-C36	13.815	(10.410-17.220)		7872214	1009.6	
A 55 C23-C32	14.179	(12.412-15.946)		5807815	1413.9	
39 n-Octacosane		14.509			ND	
65 C29	14.897	14.886	0.011	328453	NC	M
A 7 Motor Oil	15.041	(12.863-17.220)		7466427	1308.0	
A 40 C24-C36	15.041	(12.863-17.220)		7466427	1308.0	
A 50 C25-C36	15.258	(13.297-17.220)		6991348	1299.2	
A 10 C22-C40	15.348	(11.943-18.754)		9744294	1230.0	
A 41 C23-C40	15.583	(12.412-18.754)		9478712	1226.1	
A 8 C24-C40	15.808	(12.863-18.754)		9055414	1214.0	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.631	(14.509-18.754)		6765401	1372.0	
A 63 C29-C40	16.820	(14.886-18.754)		5984284	1365.0	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

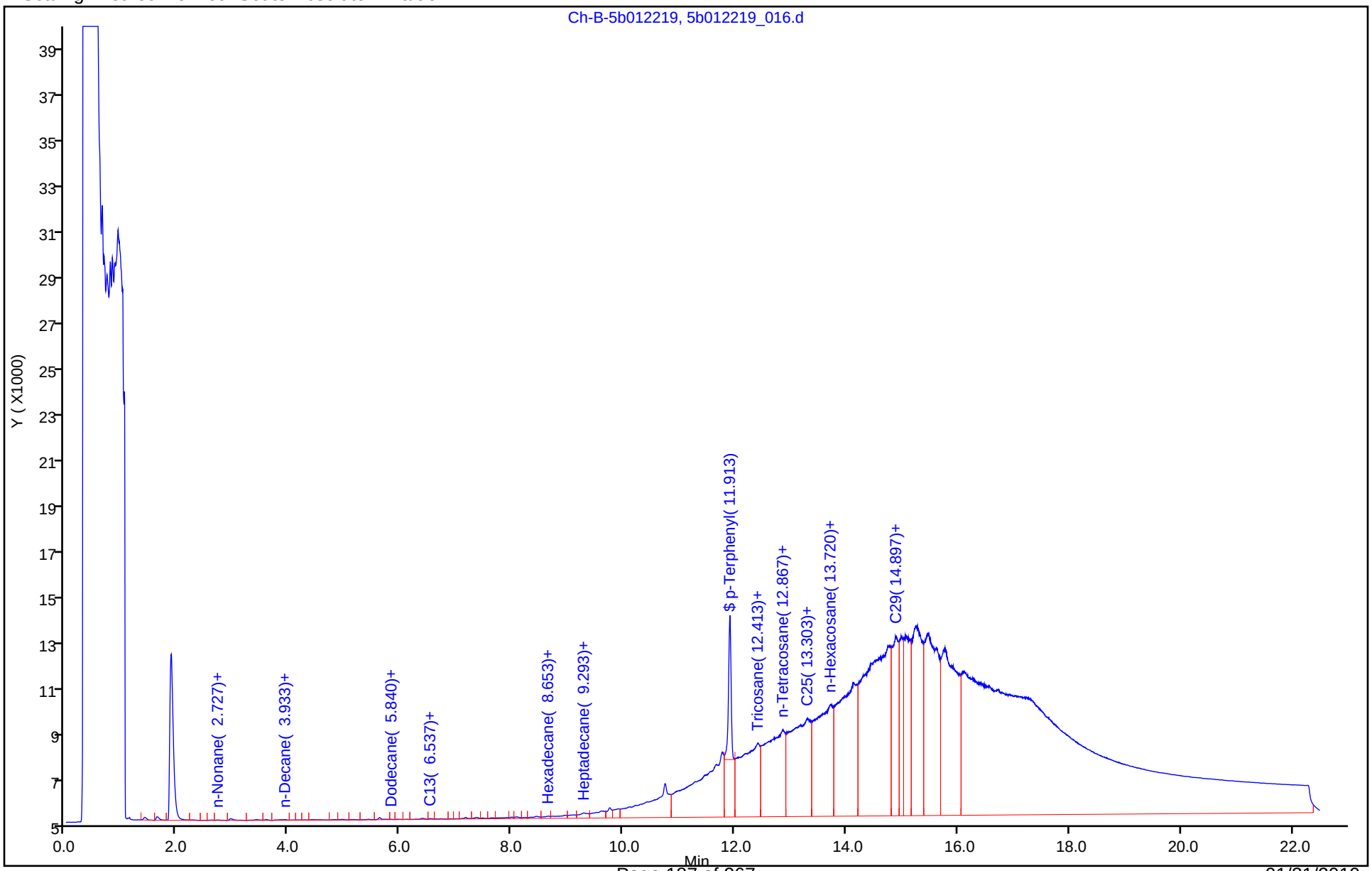
Report Date: 23-Jan-2019 16:17:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_016.d

Injection Date:	22-Jan-2019 15:57:19	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-28-D	Lab Sample ID:	720-90698-28	Worklist Smp#:	16
Client ID:	DG-P13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_016.d				
Lims ID:	720-90698-E-28-D				
Client ID:	DG-P13S-3.5-4				
Sample Type:	Client				
Inject. Date:	22-Jan-2019 15:57:19	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 105 Name: 720-0056216-016				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	23-Jan-2019 16:17:53	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: hayashid Date: 23-Jan-2019 16:17:53

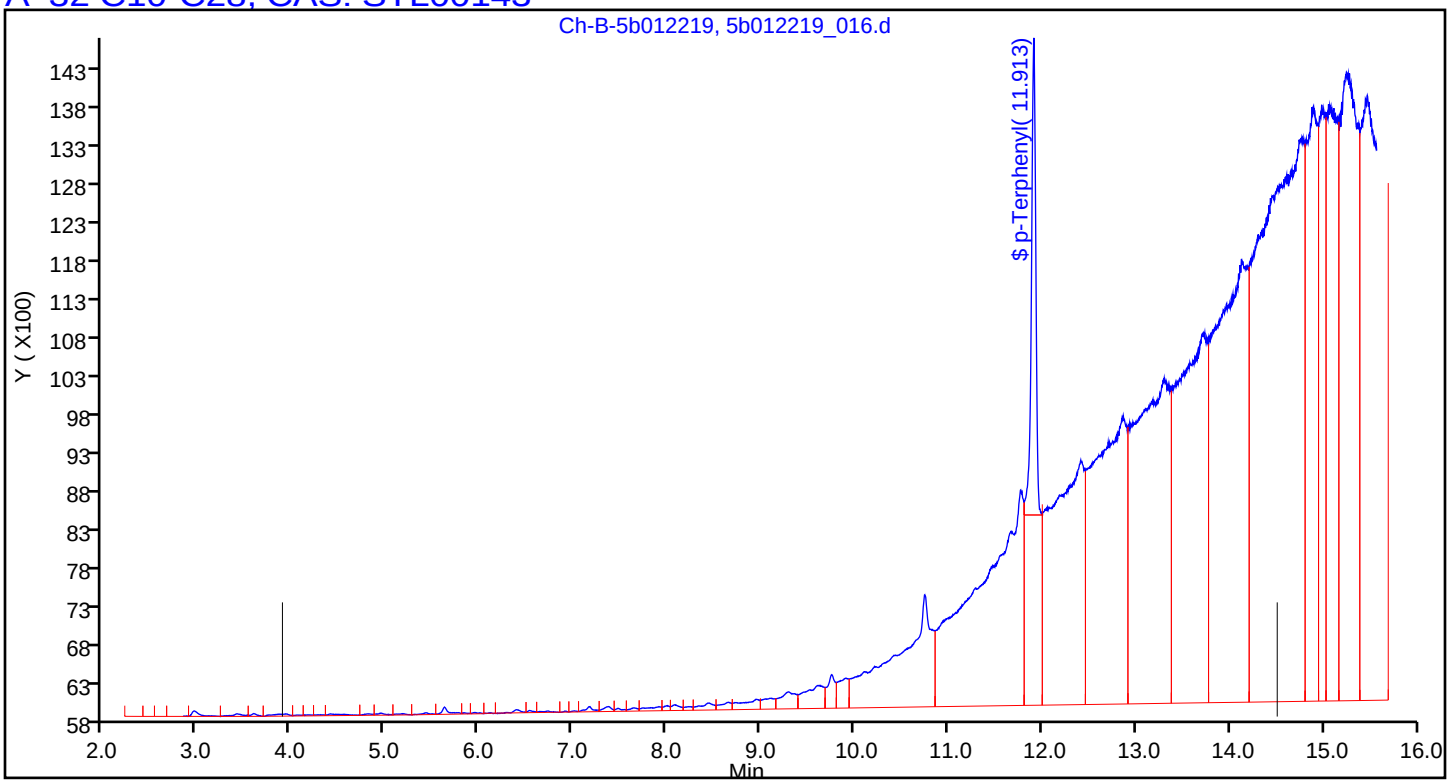
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	8.03	64.25

Report Date: 23-Jan-2019 16:17:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_016.d				
Injection Date:	22-Jan-2019 15:57:19	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-28-D	Lab Sample ID:	720-90698-28		
Client ID:	DG-P13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

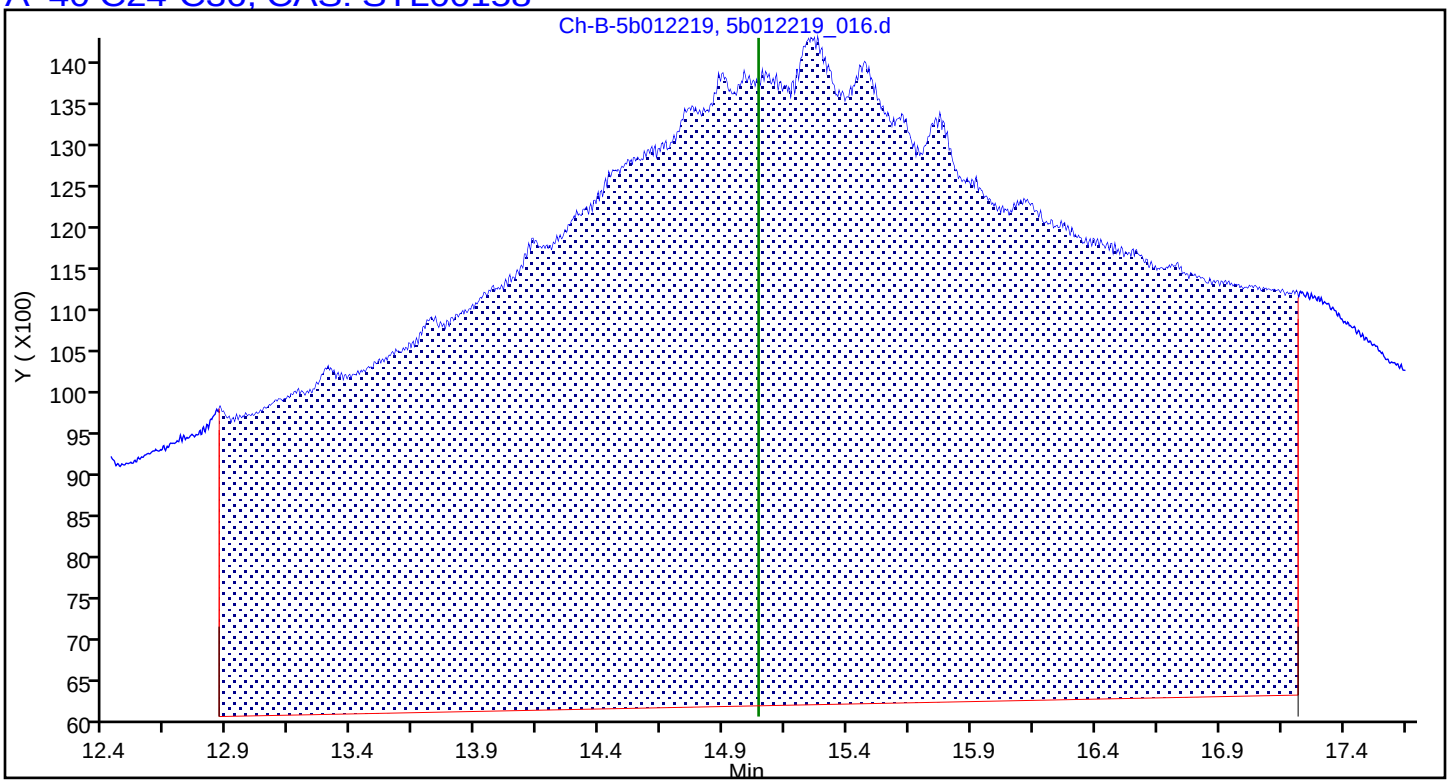


Report Date: 23-Jan-2019 16:17:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_016.d				
Injection Date:	22-Jan-2019 15:57:19	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-28-D	Lab Sample ID:	720-90698-28		
Client ID:	DG-P13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

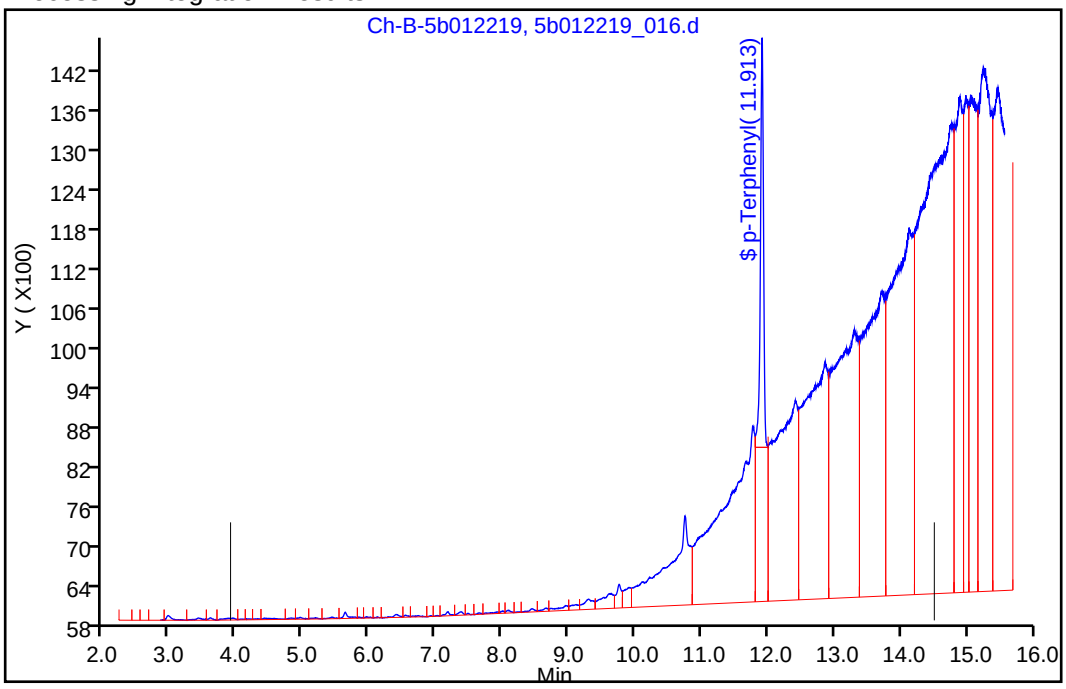
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_016.d				
Injection Date:	22-Jan-2019 15:57:19	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-28-D	Lab Sample ID:	720-90698-28		
Client ID:	DG-P13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.204, CAS: STL00143

Signal: 1

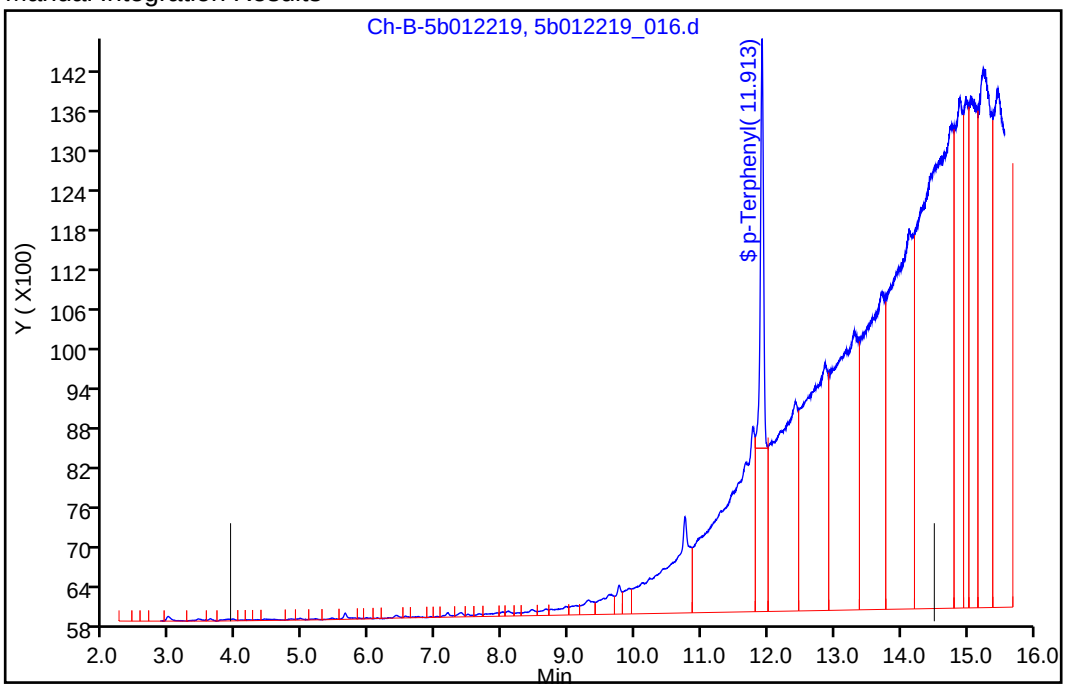
Processing Integration Results

RT: 9.20
Response: 3264806
Amount: 332.5254



Manual Integration Results

RT: 9.20
Response: 3514206
Amount: 357.9271



Reviewer: hayashid, 23-Jan-2019 16:17:43

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_036.d
Lims ID: 720-90698-E-29-D
Client ID: DUP-90
Sample Type: Client
Inject. Date: 23-Jan-2019 02:05:50 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 102 Name: 720-0056216-036
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:36:40 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:36:40

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.716	2.679	0.037	583	NC	
23 n-Decane	3.896	3.898	-0.002	2065	NC	
A 21 Stoddard Solvent	4.628	(2.679-6.578)		25579	2.25	M
A 1 C9-C13	4.628	(2.679-6.578)		25579	2.02	M
A 57 C10-C12	4.839	(3.898-5.780)		15519	1.58	
24 Dodecane	5.774	5.780	-0.006	652	NC	
A 3 C9 - C17	5.979	(2.679-9.278)		58423	4.14	M
A 47 C9 - C18	6.267	(2.679-9.856)		86468	7.70	M
A 60 C10-C16	6.275	(3.898-8.652)		42781	3.43	M
A 25 C9-C19	6.545	(2.679-10.410)		117458	8.29	M
A 15 Kerosene	6.545	(2.679-10.410)		117458	10.4	M
26 C13	6.533	6.578	-0.045	1412	NC	M
$ 27 n-Decanoic Acid (Surr)		7.196			ND	U
A 59 C12-C16	7.216	(5.780-8.652)		27914	2.84	M
A 62 C10-C20	7.421	(3.898-10.944)		175165	17.8	M
A 28 C9-C24	7.771	(2.679-12.863)		763784	77.8	M
A 29 C9-C25	7.988	(2.679-13.297)		975824	99.4	M
A 54 C10-C23	8.155	(3.898-12.412)		573706	58.4	M
A 4 C10-C24	8.381	(3.898-12.863)		757229	77.1	M
A 16 C10-C25	8.598	(3.898-13.297)		969269	98.7	M
45 Hexadecane	8.650	8.652	-0.002	2763	NC	M
A 14 C10-C26	8.807	(3.898-13.715)		1099258	112.0	M
A 67 C12-C22	8.862	(5.780-11.943)		412506	42.0	M
A 12 Unknown Hydrocarbons	9.204	(3.898-14.509)		1659136	NC	M
A 32 C10-C28	9.204	(3.898-14.509)		1659136	169.0	M
A 5 Diesel	9.204	(3.898-14.509)		1659136	169.0	M
A 30 C13-C22	9.260	(6.578-11.943)		409761	41.7	M
44 Heptadecane	9.283	9.278	0.005	7328	NC	M
A 31 C12-C24	9.321	(5.780-12.863)		742362	75.6	M
49 n-Octadecane	9.900	9.856	0.044	6649	NC	M
A 11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		5895902	NC	M
A 9 Crude Oil Range Organics (	9.950	(2.679-17.220)		4201034	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		4201034	386.7	
33 C19	10.423	10.410	0.013	10369	NC	M
A 64 C13-C28	10.543	(6.578-14.509)		1641524	167.2	M
A 17 C10-C36	10.620	(4.020-17.220)		5887282	599.6	M
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		5131232	NC	
A 13 C9-C40	10.716	(2.679-18.754)		5131232	628.2	
A 58 C16-C24	10.757	(8.652-12.863)		717211	73.0	M
61 icosane	10.950	10.944	0.006	18601	NC	M
A 6 C10-C40	11.326	(3.898-18.754)		5122660	627.3	
$ 34 p-Terphenyl	11.913	11.913	0.000	303480	24.1	
35 n-Docosane	12.047	11.943	0.104	25003	NC	M
A 18 C12-C40	12.267	(5.780-18.754)		5099947	624.8	
36 Tricosane	12.410	12.412	-0.002	121330	NC	M
A 66 C13-C40	12.666	(6.578-18.754)		4945434	607.6	
37 n-Tetracosane	12.860	12.863	-0.003	83774	NC	M
A 2 C16-C36 ORO	12.936	(8.652-17.220)		3602712	505.0	
38 C25	13.297	13.297	0.000	85412	NC	M
A 19 C16-C40	13.703	(8.652-18.754)		5033164	617.7	
46 n-Hexacosane	13.717	13.715	0.002	89680	NC	M
A 20 C19-C36	13.815	(10.410-17.220)		2778621	356.3	
A 55 C23-C32	14.179	(12.412-15.946)		2313402	563.2	
39 n-Octacosane	14.510	14.509	0.001	103050	NC	M
65 C29	14.887	14.886	0.001	142660	NC	M
A 7 Motor Oil	15.041	(12.863-17.220)		3044964	533.4	
A 40 C24-C36	15.041	(12.863-17.220)		3044964	533.4	
A 50 C25-C36	15.258	(13.297-17.220)		2857285	530.9	
A 10 C22-C40	15.348	(11.943-18.754)		3885772	490.5	
A 41 C23-C40	15.583	(12.412-18.754)		4039742	522.5	
A 8 C24-C40	15.808	(12.863-18.754)		3879252	520.1	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.631	(14.509-18.754)		2956132	578.7	
A 63 C29-C40	16.820	(14.886-18.754)		2642780	579.4	
42 n-Hexatriacontane	17.197	17.220	-0.023	2259799	NC	M
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

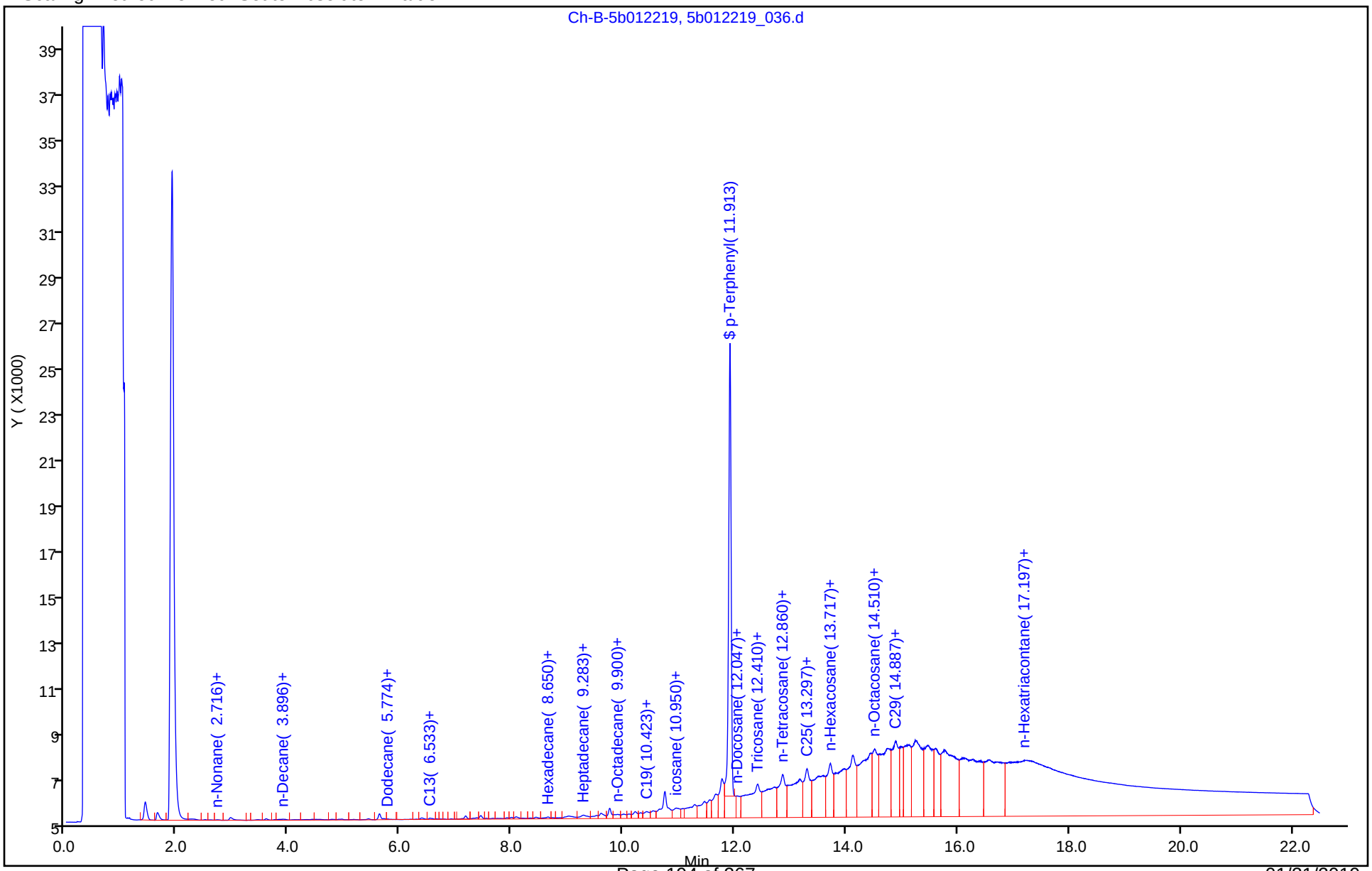
Report Date: 23-Jan-2019 16:36:41 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_036.d

Injection Date:	23-Jan-2019 02:05:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-29-D	Lab Sample ID:	720-90698-29	Worklist Smp#:	36
Client ID:	DUP-90				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_036.d				
Lims ID:	720-90698-E-29-D				
Client ID:	DUP-90				
Sample Type:	Client				
Inject. Date:	23-Jan-2019 02:05:50	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 102 Name: 720-0056216-036				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	23-Jan-2019 16:36:40	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: hayashid Date: 23-Jan-2019 16:36:40

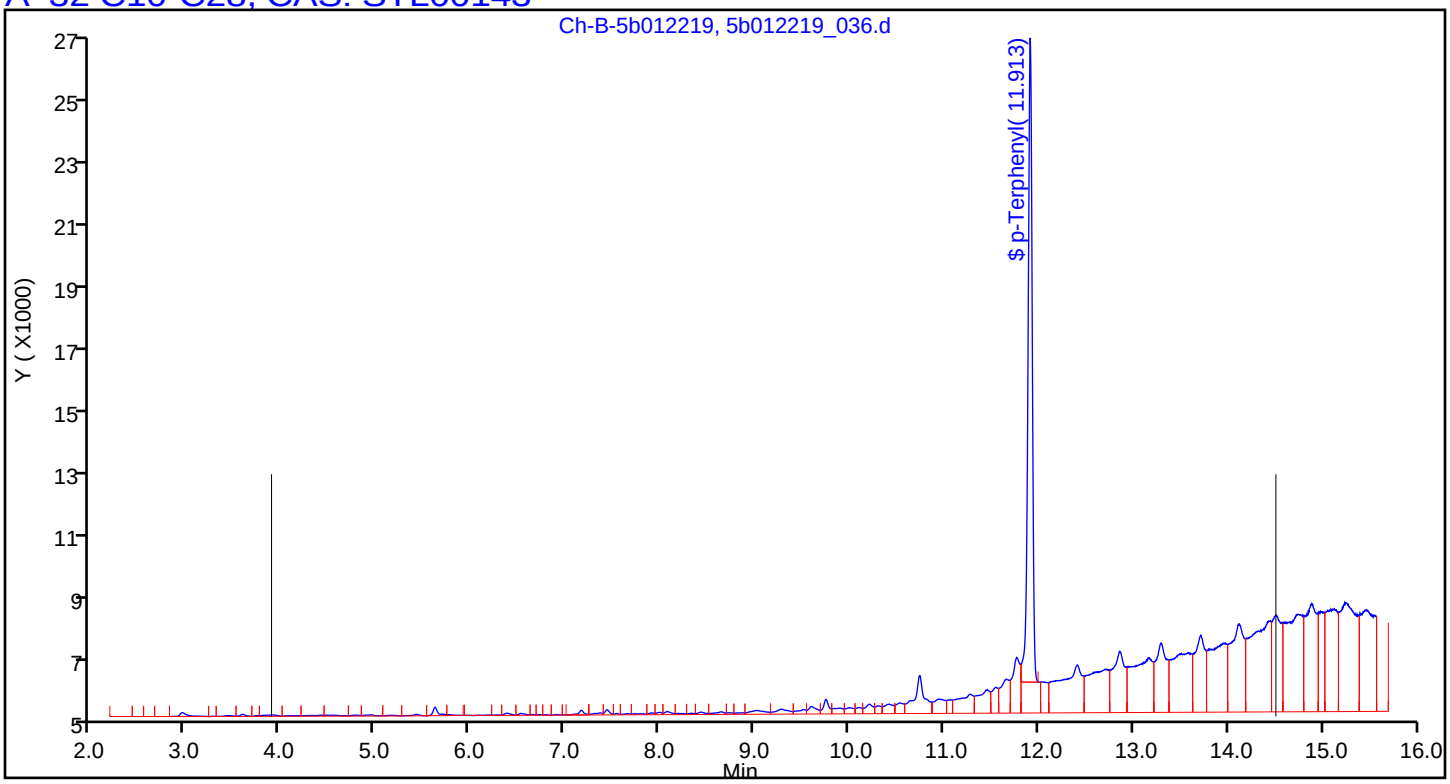
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.1	96.32

Report Date: 23-Jan-2019 16:36:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_036.d				
Injection Date:	23-Jan-2019 02:05:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-29-D	Lab Sample ID:	720-90698-29		
Client ID:	DUP-90				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

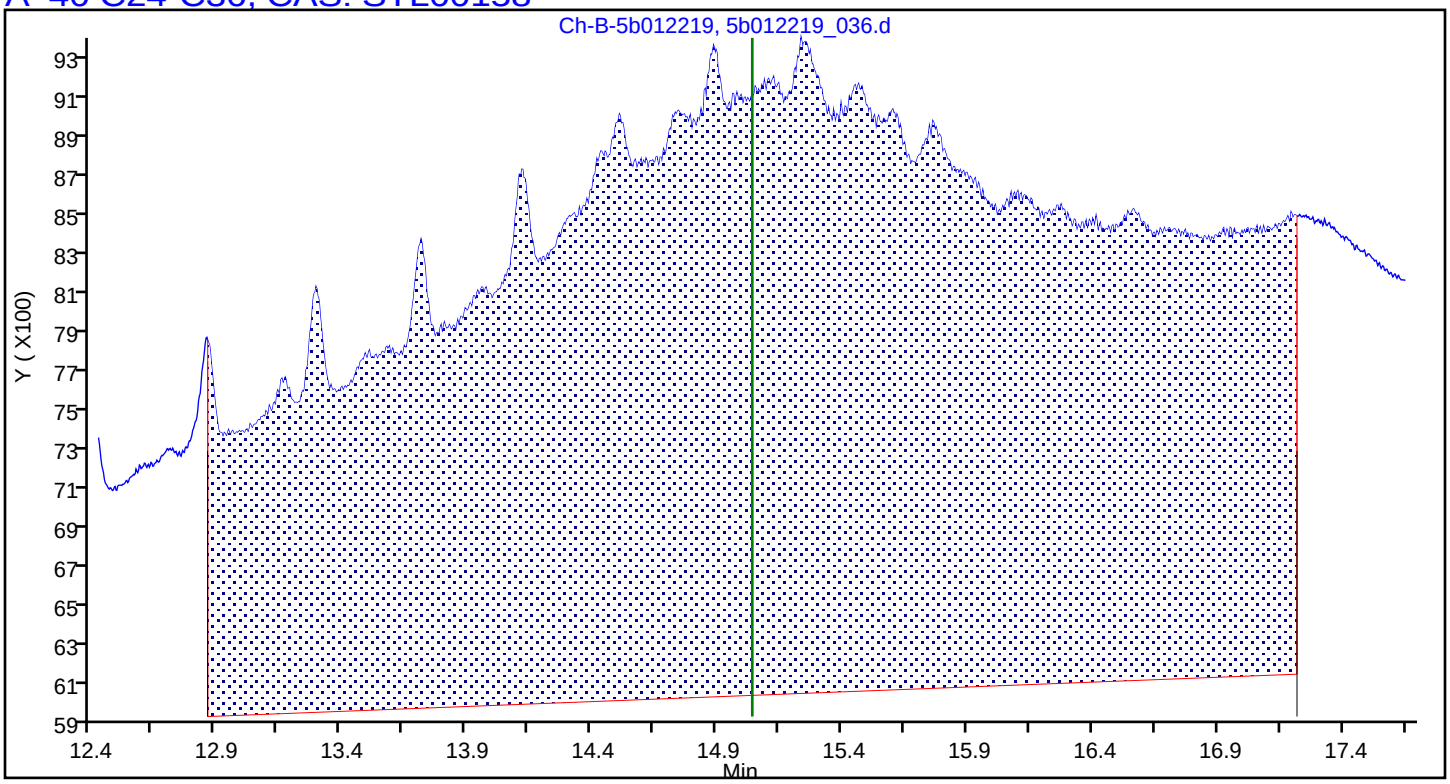


Report Date: 23-Jan-2019 16:36:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_036.d				
Injection Date:	23-Jan-2019 02:05:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-29-D	Lab Sample ID:	720-90698-29		
Client ID:	DUP-90				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

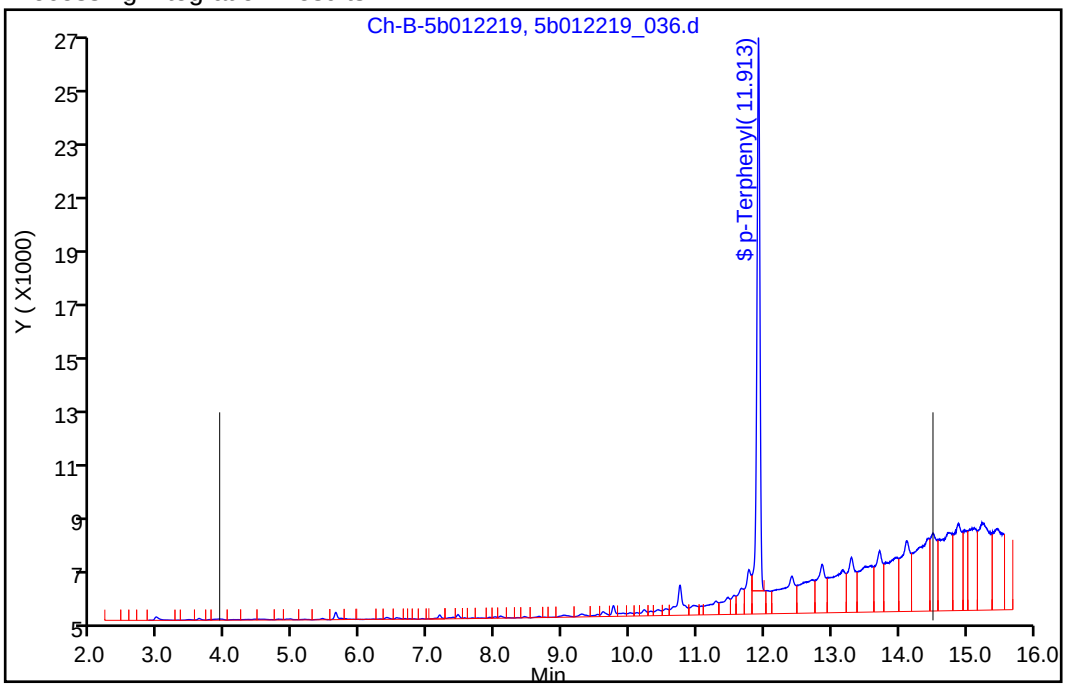
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Injection Date:	23-Jan-2019 02:05:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-29-D	Lab Sample ID:	720-90698-29		
Client ID:	DUP-90				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.204, CAS: STL00143

Signal: 1

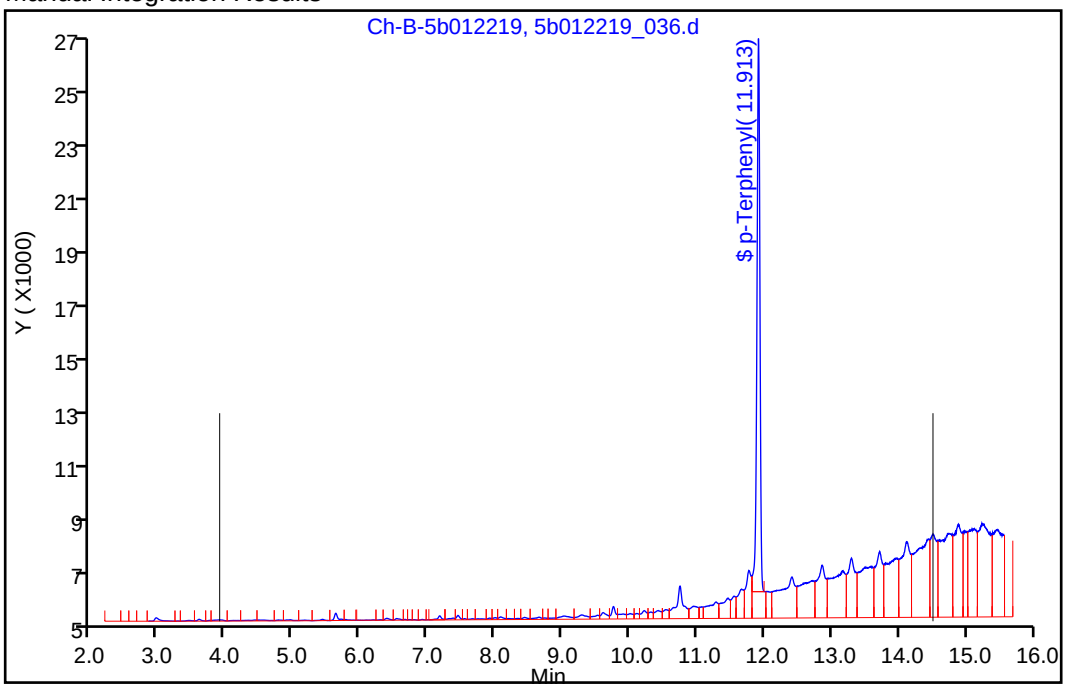
Processing Integration Results

RT: 9.20
Response: 1430976
Amount: 145.7470



Manual Integration Results

RT: 9.20
Response: 1659136
Amount: 168.9855



Reviewer: hayashid, 23-Jan-2019 16:36:28

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_038.d
Lims ID: 720-90698-E-30-D
Client ID: DG-N13S-0.5-1
Sample Type: Client
Inject. Date: 23-Jan-2019 03:03:50 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 114 Name: 720-0056216-038
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:47:20 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:47:20

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.718	2.679	0.039	2070	NC	
23 n-Decane	3.920	3.898	0.022	2520	NC	
A 21 Stoddard Solvent	4.628	(2.679-6.578)		68010	5.98	M
A 1 C9-C13	4.628	(2.679-6.578)		68010	5.37	M
A 57 C10-C12	4.839	(3.898-5.780)		34192	3.48	M
24 Dodecane	5.773	5.780	-0.007	3494	NC	M
A 3 C9 - C17	5.979	(2.679-9.278)		233858	16.6	M
A 47 C9 - C18	6.267	(2.679-9.856)		369202	32.9	M
A 60 C10-C16	6.275	(3.898-8.652)		164637	13.2	M
A 25 C9-C19	6.545	(2.679-10.410)		487556	34.4	M
A 15 Kerosene	6.545	(2.679-10.410)		487556	43.3	M
26 C13	6.560	6.578	-0.018	5922	NC	M
$ 27 n-Decanoic Acid (Surr)		7.196			ND	U
A 59 C12-C16	7.216	(5.780-8.652)		133939	13.6	M
A 62 C10-C20	7.421	(3.898-10.944)		722808	73.6	M
A 28 C9-C24	7.771	(2.679-12.863)		2320886	236.4	M
A 29 C9-C25	7.988	(2.679-13.297)		2688018	273.8	M
A 54 C10-C23	8.155	(3.898-12.412)		1772533	180.5	M
A 4 C10-C24	8.381	(3.898-12.863)		2303309	234.6	M
A 16 C10-C25	8.598	(3.898-13.297)		2670441	272.0	M
45 Hexadecane	8.650	8.652	-0.002	7696	NC	M
A 14 C10-C26	8.807	(3.898-13.715)		3217113	327.7	M
A 67 C12-C22	8.862	(5.780-11.943)		1496481	152.4	M
A 12 Unknown Hydrocarbons	9.204	(3.898-14.509)		4628385	NC	M
A 32 C10-C28	9.204	(3.898-14.509)		4628385	471.4	M
A 5 Diesel	9.204	(3.898-14.509)		4628385	471.4	M
A 30 C13-C22	9.260	(6.578-11.943)		1482668	151.0	M
44 Heptadecane	9.290	9.278	0.012	32661	NC	M
A 31 C12-C24	9.321	(5.780-12.863)		2272611	231.5	M
49 n-Octadecane	9.897	9.856	0.041	15105	NC	M
A 11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		14734529	NC	M
A 9 Crude Oil Range Organics (	9.950	(2.679-17.220)		10615907	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		10615907	977.2	
33 C19	10.427	10.410	0.017	37799	NC	M
A 64 C13-C28	10.543	(6.578-14.509)		4583874	466.9	M
A 17 C10-C36	10.559	(3.898-17.220)		14716952	1498.9	M
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		12910521	NC	
A 13 C9-C40	10.716	(2.679-18.754)		12910521	1647.6	
A 58 C16-C24	10.757	(8.652-12.863)		2146368	218.6	M
61 icosane	10.980	10.944	0.036	59558	NC	M
A 6 C10-C40	11.326	(3.898-18.754)		12891078	1645.3	
$ 34 p-Terphenyl	11.913	11.913	0.000	250315	19.9	
35 n-Docosane	12.023	11.943	0.080	58619	NC	M
A 18 C12-C40	12.267	(5.780-18.754)		12840984	1639.2	
36 Tricosane	12.417	12.412	0.005	113604	NC	M
A 66 C13-C40	12.666	(6.578-18.754)		12393332	1585.3	
37 n-Tetracosane	12.853	12.863	-0.010	153559	NC	M
A 2 C16-C36 ORO	12.936	(8.652-17.220)		8621887	1208.6	
38 C25	13.303	13.297	0.006	169252	NC	M
A 19 C16-C40	13.703	(8.652-18.754)		12648743	1617.1	
46 n-Hexacosane	13.720	13.715	0.005	147490	NC	M
A 20 C19-C36	13.815	(10.410-17.220)		7874869	1009.9	
A 55 C23-C32	14.179	(12.412-15.946)		5472609	1332.3	
39 n-Octacosane	14.533	14.509	0.024	174934	NC	M
65 C29	14.883	14.886	-0.003	360604	NC	M
A 7 Motor Oil	15.041	(12.863-17.220)		7647725	1339.8	
A 40 C24-C36	15.041	(12.863-17.220)		7647725	1339.8	
A 50 C25-C36	15.258	(13.297-17.220)		7186218	1335.4	
A 10 C22-C40	15.348	(11.943-18.754)		10224514	1290.6	
A 41 C23-C40	15.583	(12.412-18.754)		10145680	1312.3	
A 8 C24-C40	15.808	(12.863-18.754)		9771679	1310.1	
56 Dotriacontane	15.927	15.946	-0.019	304156	NC	M
A 51 C28-C40	16.631	(14.509-18.754)		7523399	1529.9	
A 63 C29-C40	16.820	(14.886-18.754)		6799507	1556.7	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

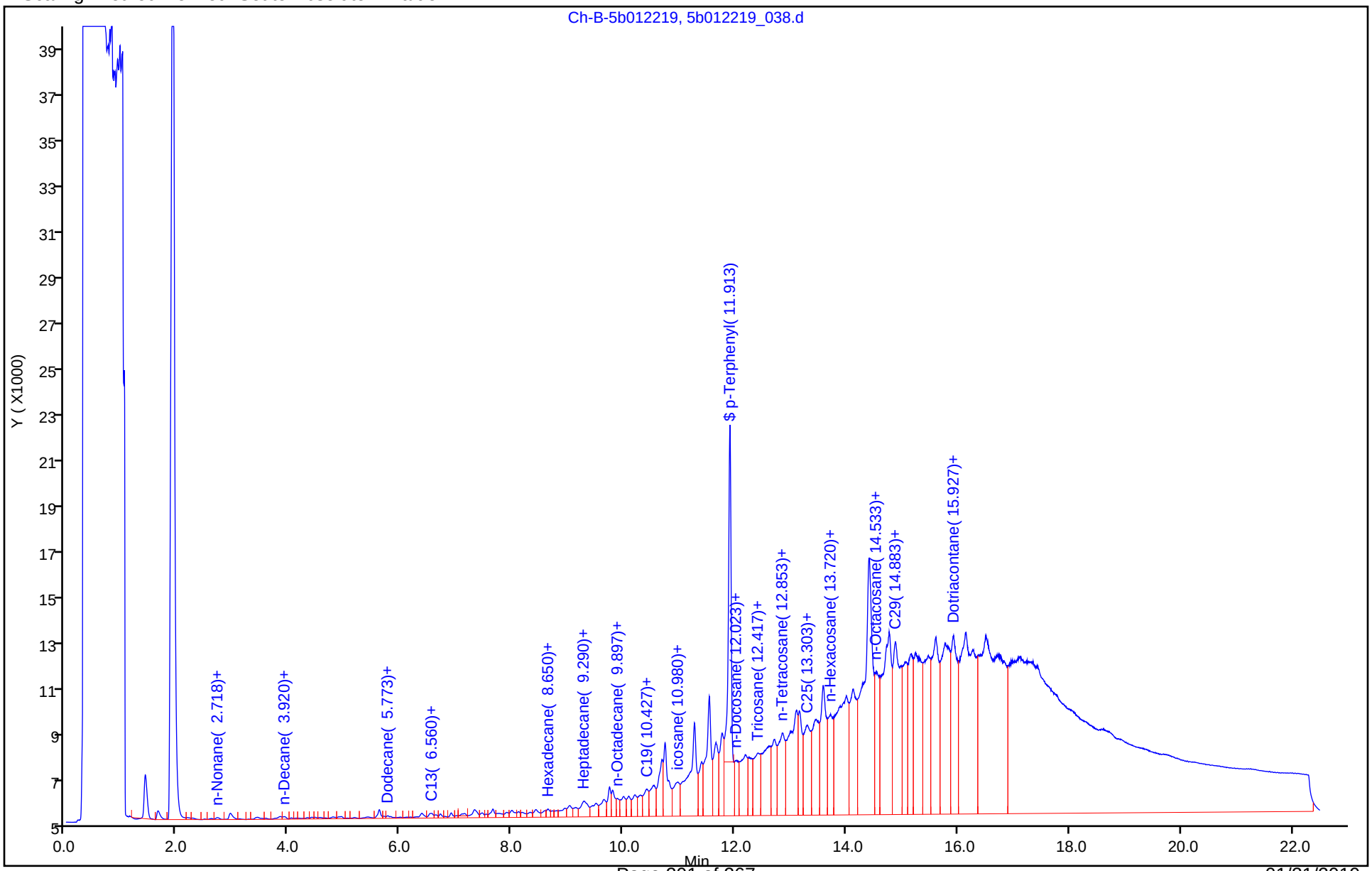
Report Date: 23-Jan-2019 16:47:21 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_038.d

Injection Date:	23-Jan-2019 03:03:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-30-D	Lab Sample ID:	720-90698-30	Worklist Smp#:	38
Client ID:	DG-N13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_038.d				
Lims ID:	720-90698-E-30-D				
Client ID:	DG-N13S-0.5-1				
Sample Type:	Client				
Inject. Date:	23-Jan-2019 03:03:50	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 114 Name: 720-0056216-038				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	23-Jan-2019 16:47:20	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				
First Level Reviewer: hayashid		Date:	23-Jan-2019 16:47:20		

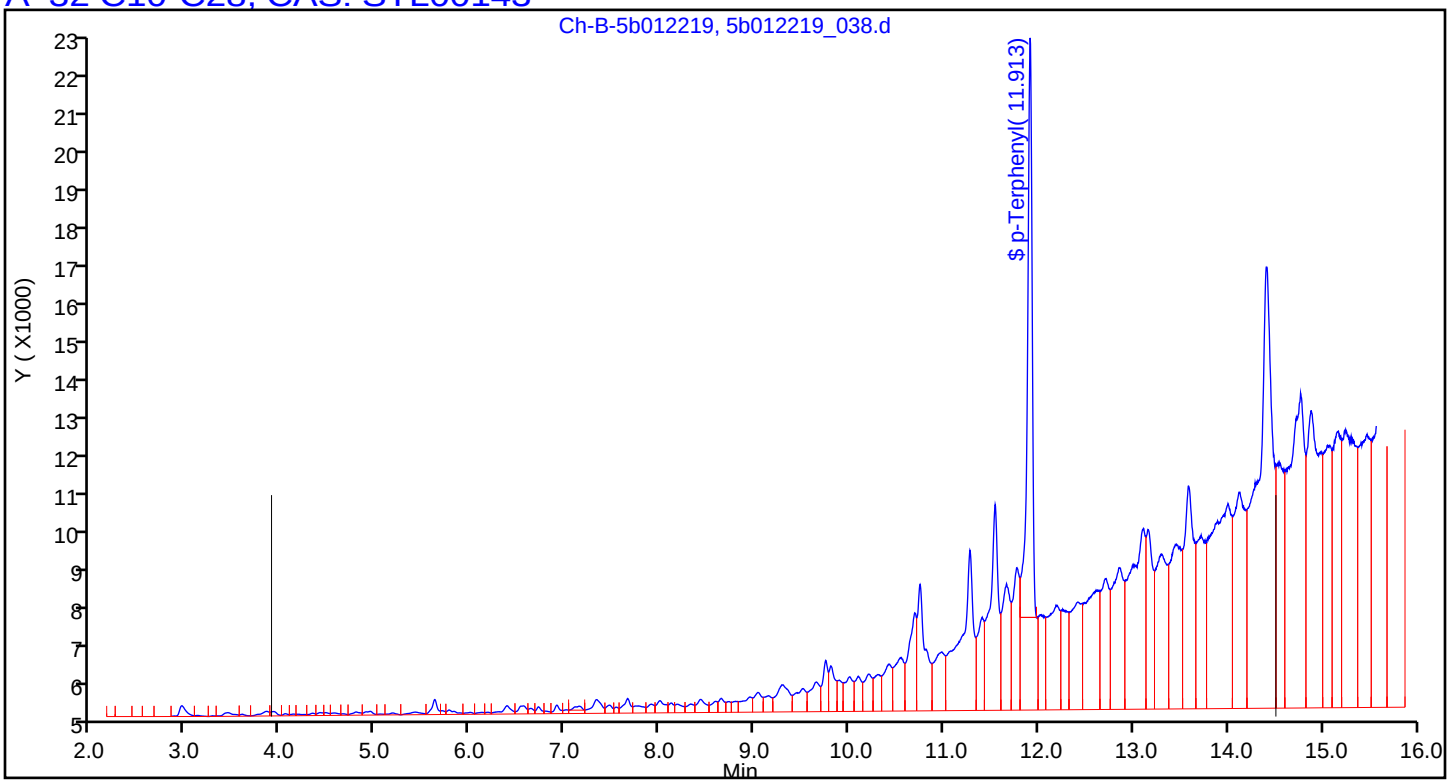
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	19.9	79.45

Report Date: 23-Jan-2019 16:47:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_038.d				
Injection Date:	23-Jan-2019 03:03:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-30-D	Lab Sample ID:	720-90698-30		
Client ID:	DG-N13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

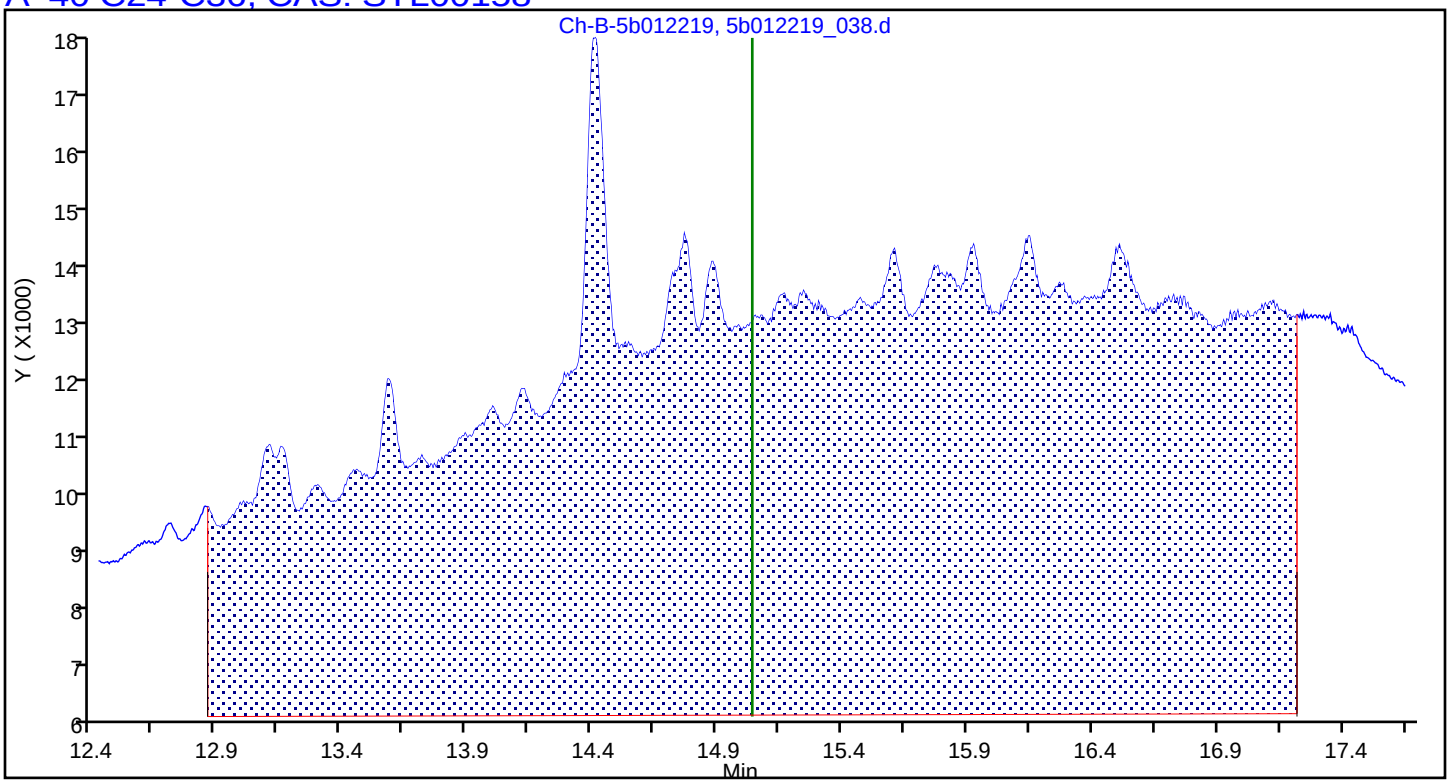


Report Date: 23-Jan-2019 16:47:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_038.d				
Injection Date:	23-Jan-2019 03:03:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-30-D	Lab Sample ID:	720-90698-30		
Client ID:	DG-N13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

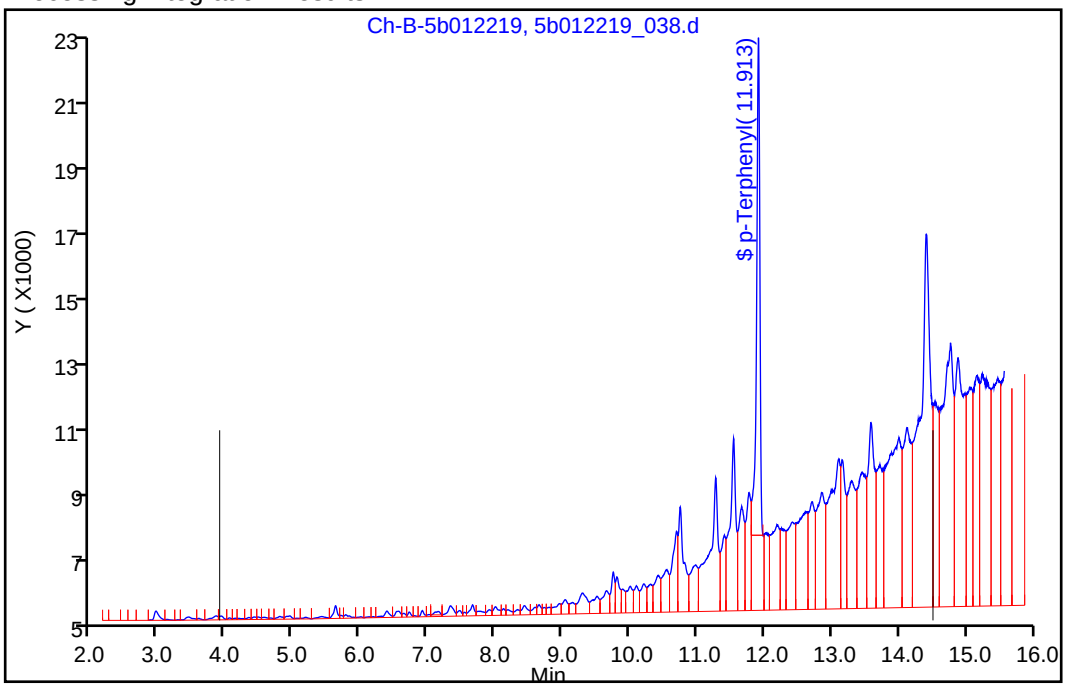
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Injection Date:	23-Jan-2019 03:03:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-30-D	Lab Sample ID:	720-90698-30		
Client ID:	DG-N13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.204, CAS: STL00143

Signal: 1

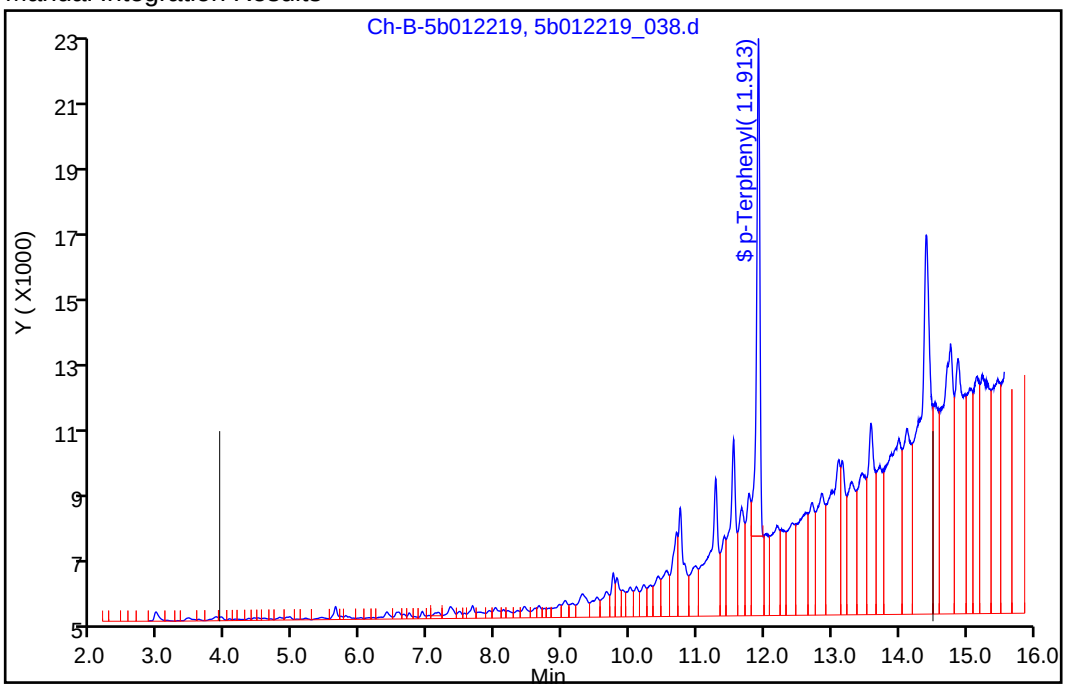
Processing Integration Results

RT: 9.20
Response: 4287721
Amount: 436.7108



Manual Integration Results

RT: 9.20
Response: 4628385
Amount: 471.4079



Reviewer: hayashid, 23-Jan-2019 16:47:15

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_022.d
Lims ID: 720-90698-E-31-L
Client ID: DG-N13S-3.5-4
Sample Type: Client
Inject. Date: 21-Jan-2019 23:04:24 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 031 Name: 720-0056187-022
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\DRO5A.m
Limit Group: DRO
Last Update: 22-Jan-2019 10:59:20 Calib Date: 21-Jan-2019 09:29:11
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0329

First Level Reviewer: luj Date: 22-Jan-2019 10:59:20

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.494	2.544	-0.050	4830	NC	
	23 n-Decane	3.824	3.793	0.031	9429	NC	
A	1 C9-C13	4.528	(2.544-6.512)		140533	NC	
A	21 Stoddard Solvent	4.528	(2.544-6.512)		140533	NC	
A	57 C10-C12	4.751	(3.793-5.708)		58120	5.93	
	24 Dodecane	5.711	5.708	0.003	10640	NC	
A	3 C9 - C17	5.892	(2.544-9.239)		330667	27.3	
A	47 C9 - C18	6.187	(2.544-9.830)		422437	39.2	
A	60 C10-C16	6.198	(3.793-8.602)		262864	23.8	
A	15 Kerosene	6.458	(2.544-10.372)		443031	41.1	
A	25 C9-C19	6.458	(2.544-10.372)		443031	36.3	
	26 C13	6.486	6.512	-0.026	47584	NC	
A	59 C12-C16	7.155	(5.708-8.602)		204744	20.9	
$	27 n-Decanoic Acid (Surr)		7.156			ND	
A	62 C10-C20	7.351	(3.793-10.909)		539021	55.0	
A	28 C9-C24	7.693	(2.544-12.841)		781615	79.7	
A	29 C9-C25	7.911	(2.544-13.278)		822511	83.9	
A	54 C10-C23	8.090	(3.793-12.387)		705510	72.0	
A	4 C10-C24	8.317	(3.793-12.841)		768196	78.4	
A	16 C10-C25	8.536	(3.793-13.278)		809092	82.6	
	45 Hexadecane	8.606	8.602	0.004	30229	NC	
A	14 C10-C26	8.747	(3.793-13.700)		887140	90.5	
A	67 C12-C22	8.811	(5.708-11.914)		604527	61.7	
A	12 Unknown Hydrocarbons	9.146	(3.793-14.499)		980992	NC	
A	32 C10-C28	9.146	(3.793-14.499)		980992	100.1	
A	5 Diesel	9.146	(3.793-14.499)		980992	100.1	
A	30 C13-C22	9.213	(6.512-11.914)		583117	59.5	
	44 Heptadecane	9.247	9.239	0.008	33066	NC	
A	31 C12-C24	9.274	(5.708-12.841)		710076	72.4	
	49 n-Octadecane	9.730	9.830	-0.100	34639	NC	
A	9 Crude Oil Range Organics (	9.888	(2.544-17.232)		1930006	NC	
A	52 Mineral oil	9.888	(2.544-17.232)		1930006	172.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.888	(2.544-17.232)		1416213	NC	
33 C19	10.395	10.372	0.023	73468	NC	
A 64 C13-C28	10.506	(6.512-14.499)		901462	92.0	
A 17 C10-C36	10.513	(3.793-17.232)		1402794	143.1	
A 13 C9-C40	10.665	(2.544-18.786)		2384260	260.4	
A 68 Crude Oil Range Organics (	10.665	(2.544-18.786)		2384260	NC	
A 58 C16-C24	10.721	(8.602-12.841)		505332	51.6	
61 icosane		10.909			ND	
A 6 C10-C40	11.290	(3.793-18.786)		2366172	258.6	
$ 34 p-Terphenyl	11.897	11.908	-0.011	337400	28.3	M
35 n-Docosane		11.914			ND	
A 18 C12-C40	12.247	(5.708-18.786)		2298831	250.6	
36 Tricosane		12.387			ND	
A 66 C13-C40	12.649	(6.512-18.786)		2250497	244.6	
37 n-Tetracosane	12.834	12.841	-0.007	62686	NC	
A 2 C16-C36 ORO	12.917	(8.602-17.232)		1573657	207.3	
38 C25	13.272	13.278	-0.006	40896	NC	
A 19 C16-C40	13.694	(8.602-18.786)		2027911	216.6	
46 n-Hexacosane	13.698	13.700	-0.002	64508	NC	
A 20 C19-C36	13.802	(10.372-17.232)		950159	110.1	
A 55 C23-C32	14.167	(12.387-15.948)		677586	142.5	
39 n-Octacosane	14.479	14.499	-0.020	42459	NC	
65 C29	14.876	14.879	-0.003	55165	NC	
A 7 Motor Oil	15.036	(12.841-17.232)		703113	115.4	
A 40 C24-C36	15.036	(12.841-17.232)		703113	115.4	
A 50 C25-C36	15.255	(13.278-17.232)		657258	113.6	
A 10 C22-C40	15.350	(11.914-18.786)		890207	106.5	
A 41 C23-C40	15.586	(12.387-18.786)		1112265	135.6	
A 8 C24-C40	15.813	(12.841-18.786)		1068128	134.3	
56 Dotriacontane	15.955	15.948	0.007	20909	NC	
A 51 C28-C40	16.642	(14.499-18.786)		863554	116.1	
A 63 C29-C40	16.832	(14.879-18.786)		810040	117.8	
42 n-Hexatriacontane	17.299	17.232	0.067	897689	NC	
43 C40		18.786			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

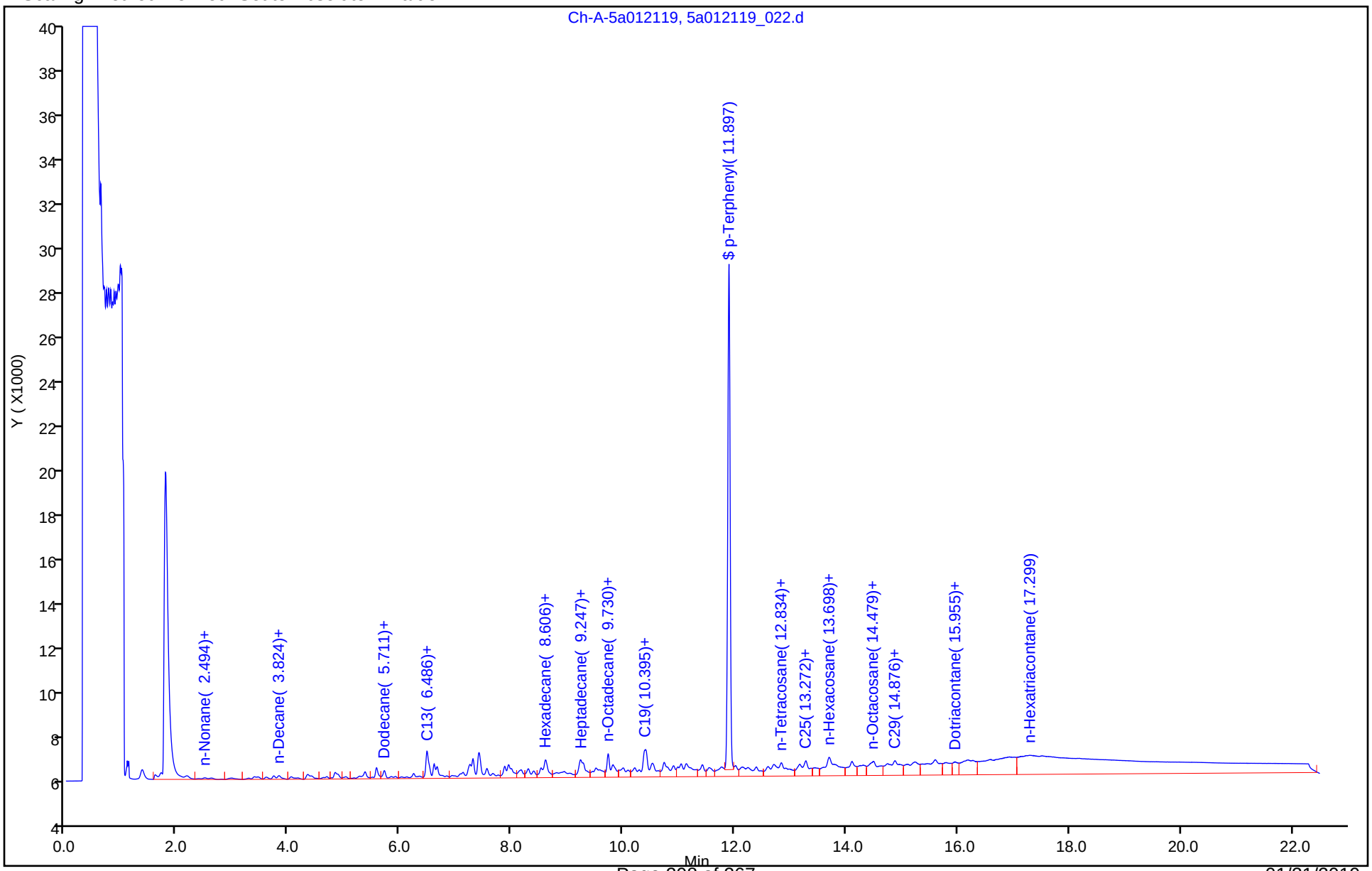
Report Date: 22-Jan-2019 10:59:21 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_022.d

Injection Date:	21-Jan-2019 23:04:24	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-31-L	Lab Sample ID:	720-90698-31	Worklist Smp#:	22
Client ID:	DG-N13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_022.d				
Lims ID:	720-90698-E-31-L				
Client ID:	DG-N13S-3.5-4				
Sample Type:	Client				
Inject. Date:	21-Jan-2019 23:04:24	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 031 Name: 720-0056187-022				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	22-Jan-2019 10:59:20	Calib Date:	21-Jan-2019 09:29:11		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0329				

First Level Reviewer: luj Date: 22-Jan-2019 10:59:20

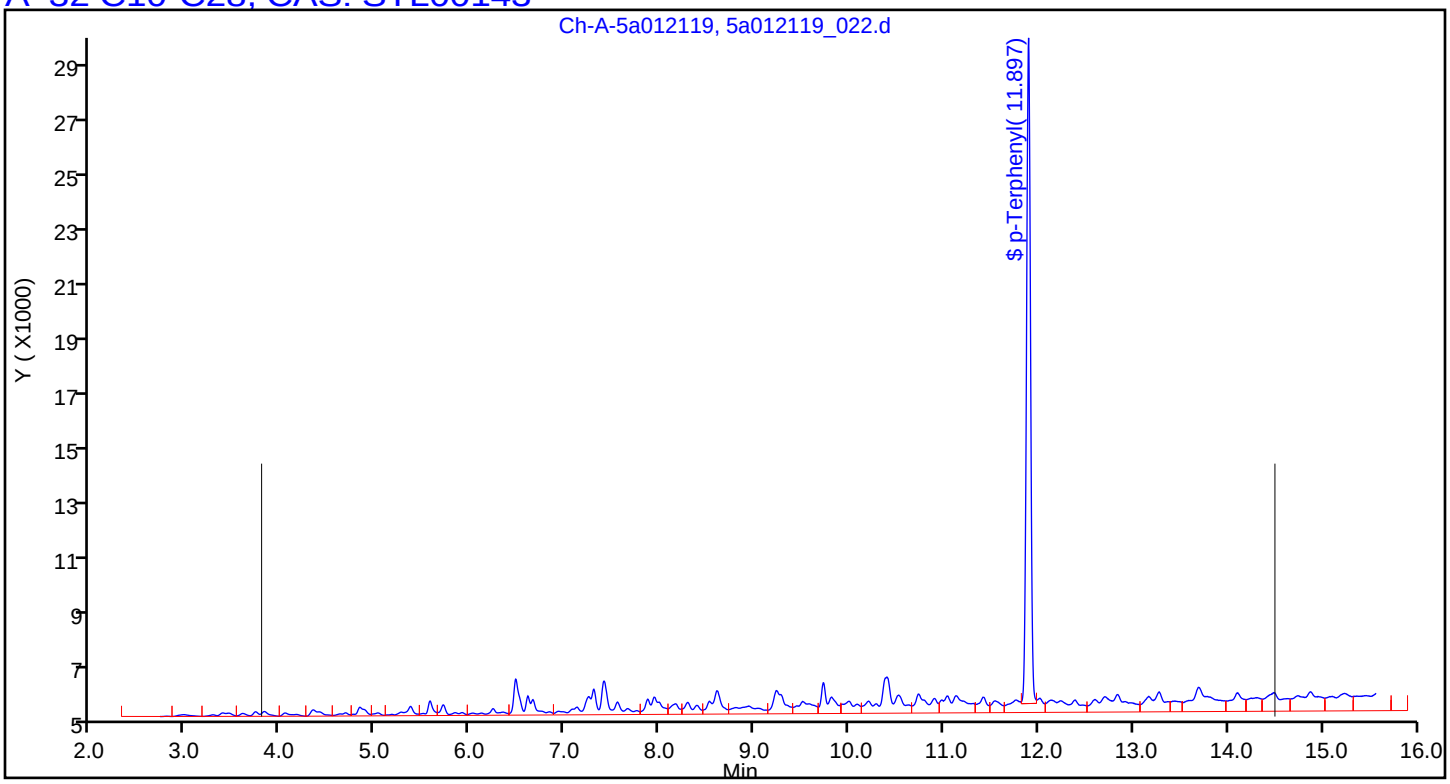
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	28.3	113.17

Report Date: 22-Jan-2019 10:59:21 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_022.d				
Injection Date:	21-Jan-2019 23:04:24	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-31-L	Lab Sample ID:	720-90698-31		
Client ID:	DG-N13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

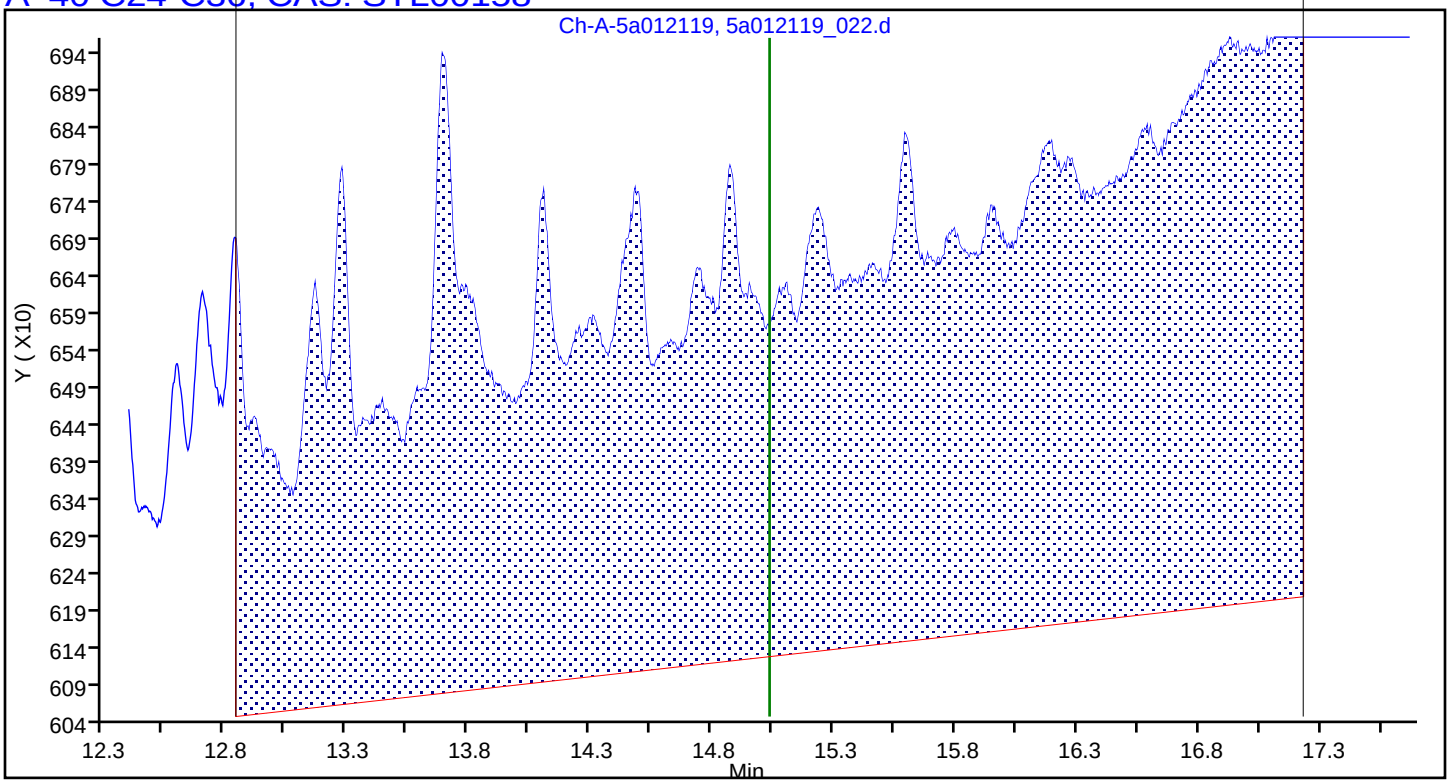


Report Date: 22-Jan-2019 10:59:22 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_022.d				
Injection Date:	21-Jan-2019 23:04:24	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-31-L	Lab Sample ID:	720-90698-31		
Client ID:	DG-N13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

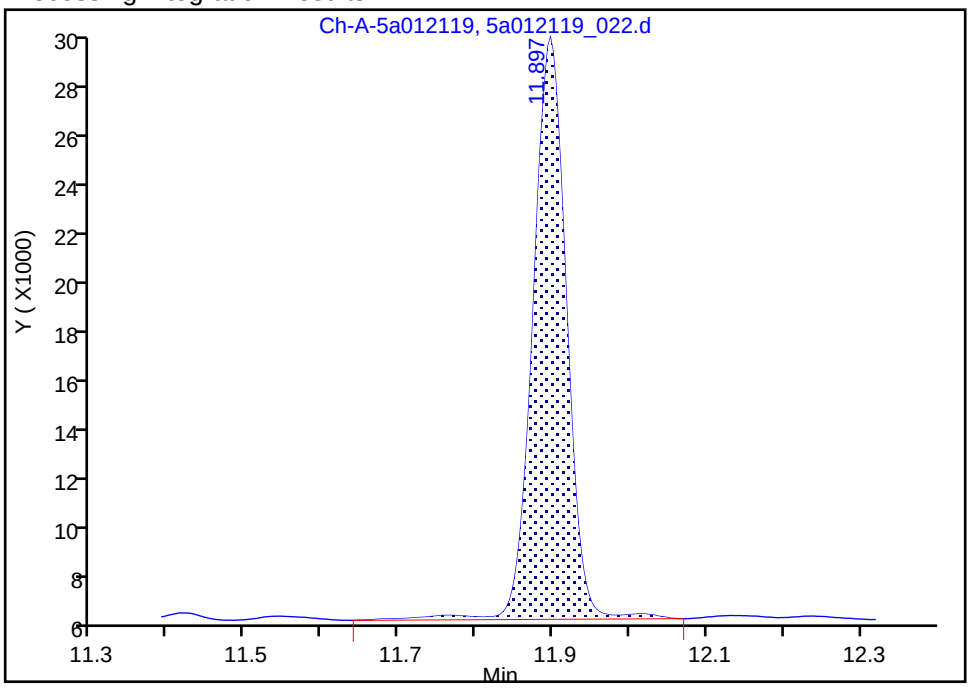
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_022.d				
Injection Date:	21-Jan-2019 23:04:24	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-31-L	Lab Sample ID:	720-90698-31		
Client ID:	DG-N13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

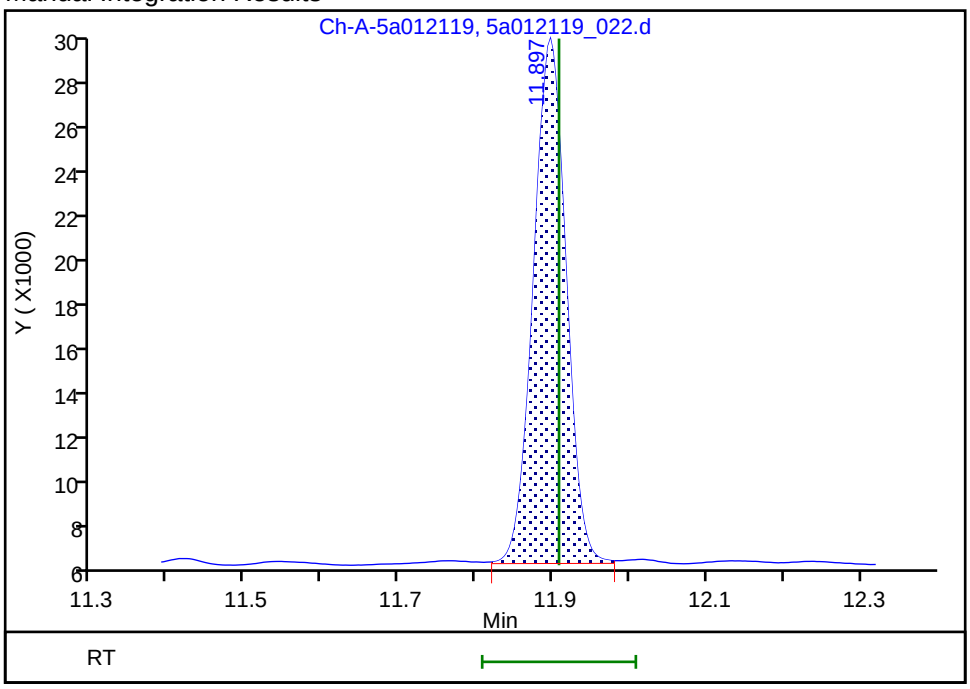
Processing Integration Results

RT: 11.90
Area: 347137
Amount: 29.110232
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 337400
Amount: 28.293706
Amount Units: mg/L



Reviewer: luj, 22-Jan-2019 10:59:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_011.d
Lims ID: 720-90698-E-32-D
Client ID: DG-N13S-7.5-8
Sample Type: Client
Inject. Date: 22-Jan-2019 13:31:48 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 140 Name: 720-0056216-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 22-Jan-2019 14:26:41 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0329

First Level Reviewer: luj Date: 22-Jan-2019 14:26:41

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.679			ND	
	23 n-Decane	3.924	3.898	0.026	559	NC	
A	21 Stoddard Solvent	4.628	(2.679-6.578)		10861	0.9554	
A	1 C9-C13	4.628	(2.679-6.578)		10861	0.8575	
A	57 C10-C12	4.839	(3.898-5.780)		5241	0.5338	
	24 Dodecane	5.717	5.780	-0.063	970	NC	
A	3 C9 - C17	5.979	(2.679-9.278)		24273	1.72	
A	47 C9 - C18	6.267	(2.679-9.856)		28419	2.53	
A	60 C10-C16	6.275	(3.898-8.652)		16446	1.32	
A	25 C9-C19	6.545	(2.679-10.410)		33607	2.37	
A	15 Kerosene	6.545	(2.679-10.410)		33607	2.99	
	26 C13	6.575	6.578	-0.003	626	NC	
$	27 n-Decanoic Acid (Surr)		7.196			ND	U
A	59 C12-C16	7.216	(5.780-8.652)		12175	1.24	
A	62 C10-C20	7.421	(3.898-10.944)		36824	3.75	
A	28 C9-C24	7.771	(2.679-12.863)		46442	4.73	
A	29 C9-C25	7.988	(2.679-13.297)		59511	6.06	
A	54 C10-C23	8.155	(3.898-12.412)		40811	4.16	
A	4 C10-C24	8.381	(3.898-12.863)		42330	4.31	
A	16 C10-C25	8.598	(3.898-13.297)		55399	5.64	
	45 Hexadecane	8.657	8.652	0.005	1386	NC	
A	14 C10-C26	8.807	(3.898-13.715)		62957	6.41	
A	67 C12-C22	8.862	(5.780-11.943)		34676	3.53	
A	12 Unknown Hydrocarbons	9.204	(3.898-14.509)		101124	NC	
A	32 C10-C28	9.204	(3.898-14.509)		101124	10.3	
A	5 Diesel	9.204	(3.898-14.509)		101124	10.3	
A	30 C13-C22	9.260	(6.578-11.943)		32824	3.34	
	44 Heptadecane	9.291	9.278	0.013	2096	NC	
A	31 C12-C24	9.321	(5.780-12.863)		38059	3.88	
	49 n-Octadecane	9.897	9.856	0.041	1857	NC	
A	11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		234710	NC	
A	9 Crude Oil Range Organics (	9.950	(2.700-17.200)		476638	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		479620	44.1	
33 C19	10.415	10.410	0.005	448	NC	
A 64 C13-C28	10.543	(6.578-14.509)		95001	9.68	
A 17 C10-C36	10.549	(3.898-17.200)		230598	23.5	
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		690830	NC	
A 13 C9-C40	10.716	(2.679-18.754)		690830	46.3	
A 58 C16-C24	10.757	(8.652-12.863)		25884	2.64	
61 icosane	10.940	10.944	-0.004	768	NC	
A 6 C10-C40	11.326	(3.898-18.754)		686335	46.0	
$ 34 p-Terphenyl	11.913	11.913	0.000	282010	22.4	
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		677187	45.3	
36 Tricosane	12.410	12.412	-0.002	649	NC	
A 66 C13-C40	12.666	(6.578-18.754)		659334	44.9	
37 n-Tetracosane	12.874	12.863	0.011	2831	NC	
A 2 C16-C36 ORO	12.936	(8.652-17.220)		397694	55.7	
38 C25	13.344	13.297	0.047	6135	NC	
A 19 C16-C40	13.703	(8.652-18.754)		657772	43.6	
46 n-Hexacosane		13.715			ND	
A 20 C19-C36	13.815	(10.410-17.220)		284700	36.5	
A 55 C23-C32	14.179	(12.412-15.946)		128259	31.2	
39 n-Octacosane	14.501	14.509	-0.008	4788	NC	
65 C29	14.880	14.886	-0.006	12094	NC	
A 7 Motor Oil	15.041	(12.863-17.220)		269516	47.2	
A 40 C24-C36	15.041	(12.863-17.220)		269516	47.2	
A 50 C25-C36	15.258	(13.297-17.220)		258643	48.1	
A 10 C22-C40	15.348	(11.943-18.754)		173046	21.8	
A 41 C23-C40	15.583	(12.412-18.754)		440899	57.0	
A 8 C24-C40	15.808	(12.863-18.754)		441856	59.2	
56 Dotriacontane	15.889	15.946	-0.057	10275	NC	
A 51 C28-C40	16.631	(14.509-18.754)		386783	43.6	
A 63 C29-C40	16.820	(14.886-18.754)		365511	44.0	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

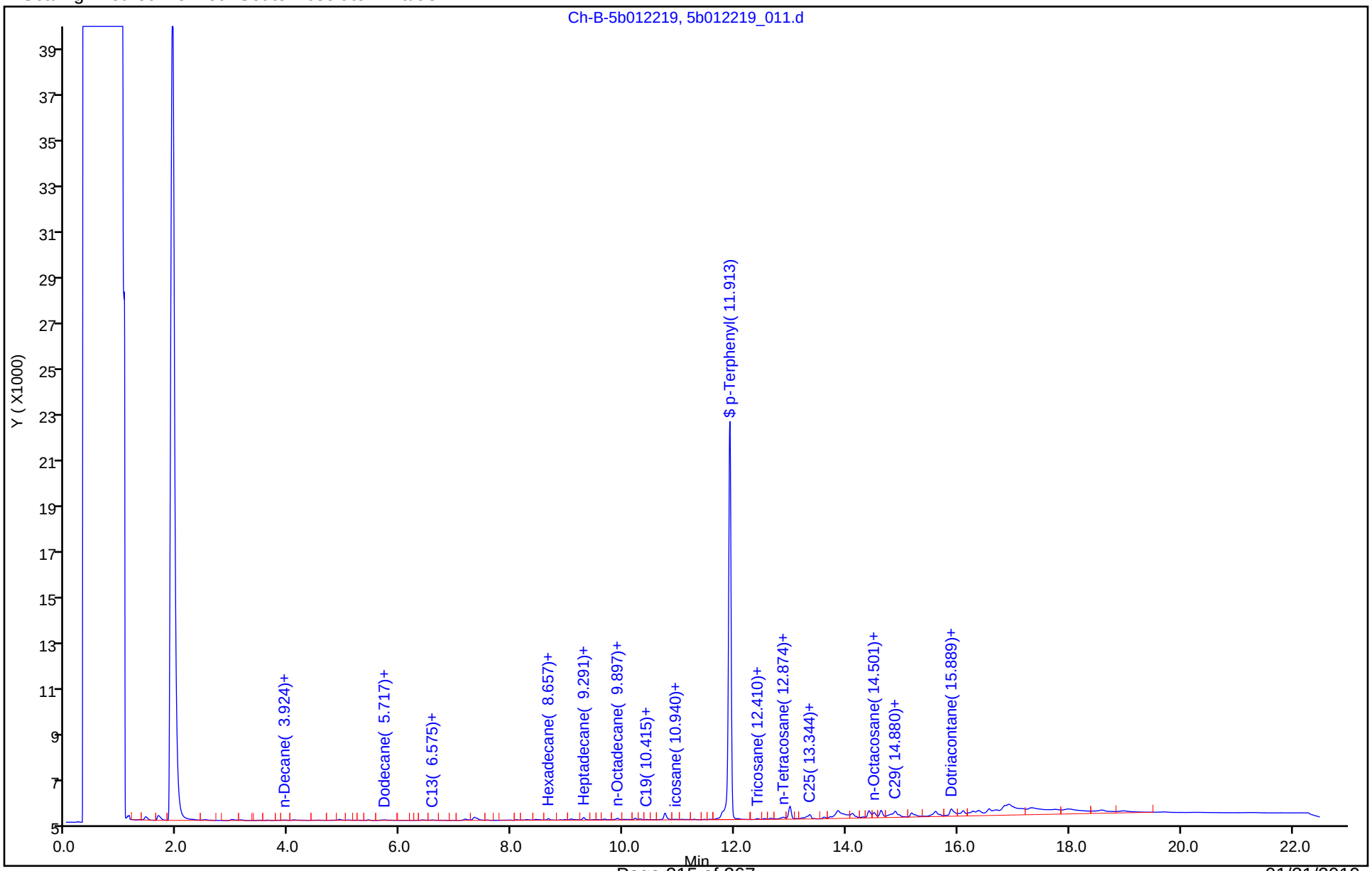
Report Date: 22-Jan-2019 14:26:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_011.d

Injection Date:	22-Jan-2019 13:31:48	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-32-D	Lab Sample ID:	720-90698-32	Worklist Smp#:	11
Client ID:	DG-N13S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_011.d				
Lims ID:	720-90698-E-32-D				
Client ID:	DG-N13S-7.5-8				
Sample Type:	Client				
Inject. Date:	22-Jan-2019 13:31:48	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 140 Name: 720-0056216-011				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	22-Jan-2019 14:26:41	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0329				

First Level Reviewer: luj Date: 22-Jan-2019 14:26:41

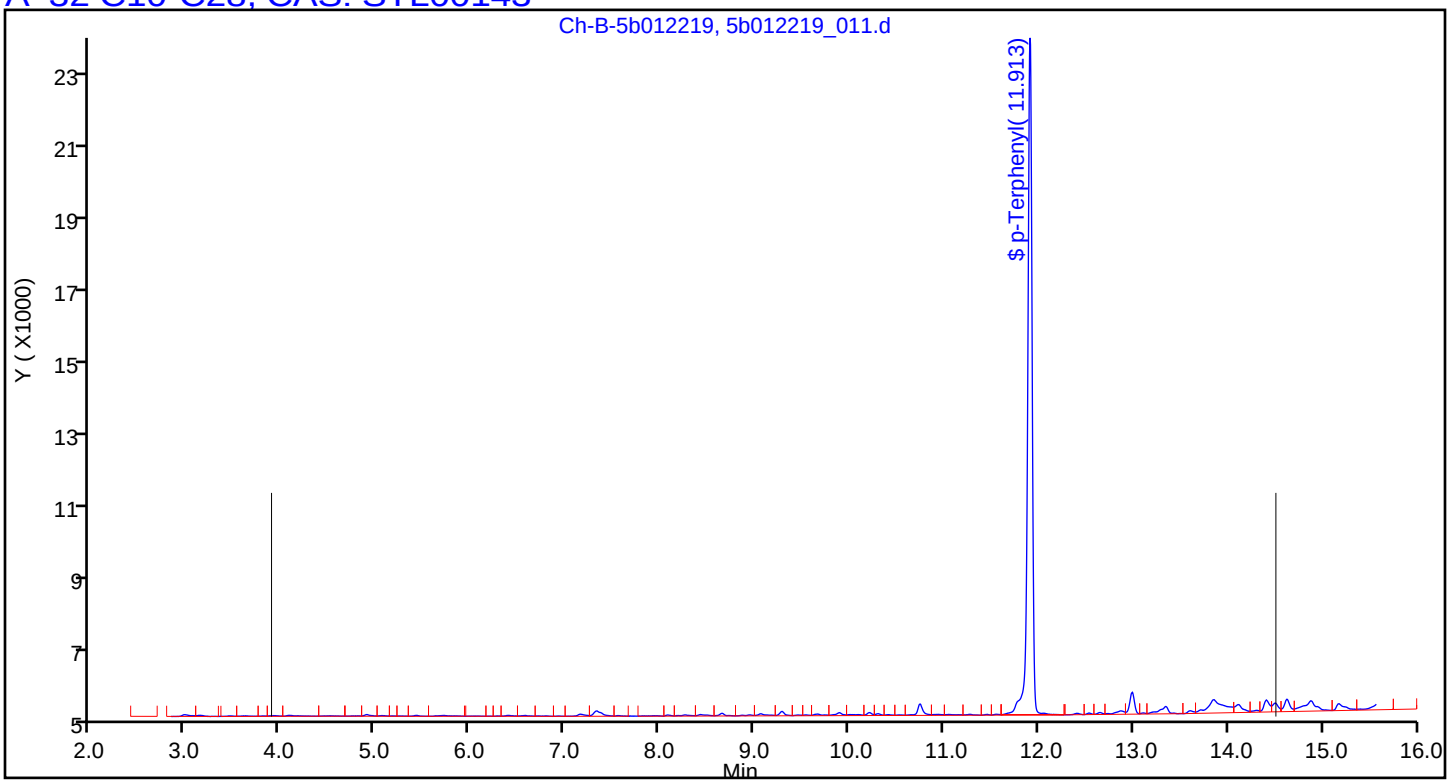
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.4	89.51

Report Date: 22-Jan-2019 14:26:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_011.d				
Injection Date:	22-Jan-2019 13:31:48	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-32-D	Lab Sample ID:	720-90698-32		
Client ID:	DG-N13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

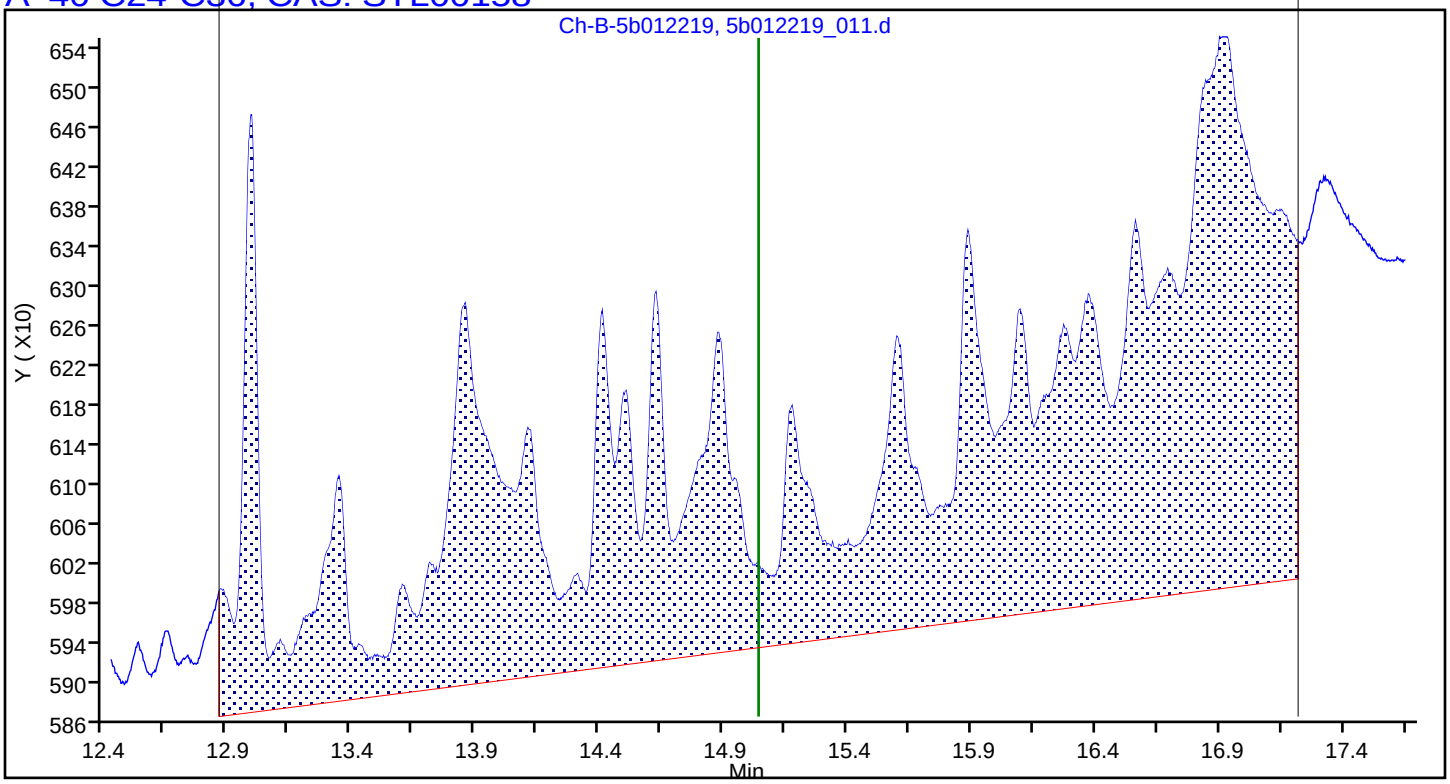


Report Date: 22-Jan-2019 14:26:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_011.d				
Injection Date:	22-Jan-2019 13:31:48	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-32-D	Lab Sample ID:	720-90698-32		
Client ID:	DG-N13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_039.d
Lims ID: 720-90698-E-33-D
Client ID: DUP-89
Sample Type: Client
Inject. Date: 23-Jan-2019 03:33:03 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 115 Name: 720-0056216-039
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:47:51 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:47:51

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.719	2.679	0.040	1420	NC	
23 n-Decane	3.891	3.898	-0.007	4960	NC	
A 21 Stoddard Solvent	4.628	(2.679-6.578)		60250	5.30	M
A 1 C9-C13	4.628	(2.679-6.578)		60250	4.76	M
A 57 C10-C12	4.839	(3.898-5.780)		33430	3.40	M
24 Dodecane	5.777	5.780	-0.003	2557	NC	M
A 3 C9 - C17	5.979	(2.679-9.278)		212985	15.1	M
A 47 C9 - C18	6.267	(2.679-9.856)		333491	29.7	M
A 60 C10-C16	6.275	(3.898-8.652)		144430	11.6	M
A 25 C9-C19	6.545	(2.679-10.410)		448074	31.6	M
A 15 Kerosene	6.545	(2.679-10.410)		448074	39.8	M
26 C13	6.567	6.578	-0.011	5963	NC	M
$ 27 n-Decanoic Acid (Surr)		7.196			ND	U
A 59 C12-C16	7.216	(5.780-8.652)		113557	11.6	M
A 62 C10-C20	7.421	(3.898-10.944)		707605	72.1	M
A 28 C9-C24	7.771	(2.679-12.863)		2112006	215.1	M
A 29 C9-C25	7.988	(2.679-13.297)		2415958	246.1	M
A 54 C10-C23	8.155	(3.898-12.412)		1632124	166.2	M
A 4 C10-C24	8.381	(3.898-12.863)		2099268	213.8	M
A 16 C10-C25	8.598	(3.898-13.297)		2403220	244.8	M
45 Hexadecane	8.653	8.652	0.001	8017	NC	M
A 14 C10-C26	8.807	(3.898-13.715)		2864423	291.7	M
A 67 C12-C22	8.862	(5.780-11.943)		1372976	139.8	M
A 12 Unknown Hydrocarbons	9.204	(3.898-14.509)		4223269	NC	M
A 32 C10-C28	9.204	(3.898-14.509)		4223269	430.1	M
A 5 Diesel	9.204	(3.898-14.509)		4223269	430.1	M
A 30 C13-C22	9.260	(6.578-11.943)		1362300	138.8	M
44 Heptadecane	9.293	9.278	0.015	29300	NC	M
A 31 C12-C24	9.321	(5.780-12.863)		2068395	210.7	M
49 n-Octadecane	9.893	9.856	0.037	17186	NC	M
A 11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		14023818	NC	M
A 9 Crude Oil Range Organics (	9.950	(2.679-17.220)		9724846	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		9724846	895.2	
33 C19	10.430	10.410	0.020	39410	NC	M
A 64 C13-C28	10.543	(6.578-14.509)		4181720	425.9	M
A 17 C10-C36	10.613	(4.007-17.220)		14006120	1426.5	M
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		12022802	NC	
A 13 C9-C40	10.716	(2.679-18.754)		12022802	1531.3	
A 58 C16-C24	10.757	(8.652-12.863)		1954838	199.1	M
61 icosane	10.977	10.944	0.033	57197	NC	M
A 6 C10-C40	11.326	(3.898-18.754)		12005514	1529.3	
$ 34 p-Terphenyl	11.917	11.913	0.004	258564	20.5	
35 n-Docosane	12.033	11.943	0.090	62796	NC	M
A 18 C12-C40	12.267	(5.780-18.754)		11958293	1523.6	
36 Tricosane	12.413	12.412	0.001	86041	NC	M
A 66 C13-C40	12.666	(6.578-18.754)		11553657	1475.1	
37 n-Tetracosane	12.853	12.863	-0.010	134338	NC	M
A 2 C16-C36 ORO	12.936	(8.652-17.220)		7834938	1098.2	
38 C25	13.300	13.297	0.003	130494	NC	M
A 19 C16-C40	13.703	(8.652-18.754)		11775116	1502.4	
46 n-Hexacosane	13.720	13.715	0.005	126379	NC	M
A 20 C19-C36	13.815	(10.410-17.220)		6733099	863.5	
A 55 C23-C32	14.179	(12.412-15.946)		4807861	1170.5	
39 n-Octacosane	14.413	14.509	-0.096	685158	NC	M
65 C29	14.883	14.886	-0.003	261868	NC	M
A 7 Motor Oil	15.041	(12.863-17.220)		6915207	1211.4	
A 40 C24-C36	15.041	(12.863-17.220)		6915207	1211.4	
A 50 C25-C36	15.258	(13.297-17.220)		6523559	1212.2	
A 10 C22-C40	15.348	(11.943-18.754)		9390104	1185.3	
A 41 C23-C40	15.583	(12.412-18.754)		9356194	1210.2	
A 8 C24-C40	15.808	(12.863-18.754)		9031923	1210.9	
56 Dotriacontane	15.923	15.946	-0.023	293890	NC	M
A 51 C28-C40	16.631	(14.509-18.754)		7125503	1447.0	
A 63 C29-C40	16.820	(14.886-18.754)		6490316	1484.0	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

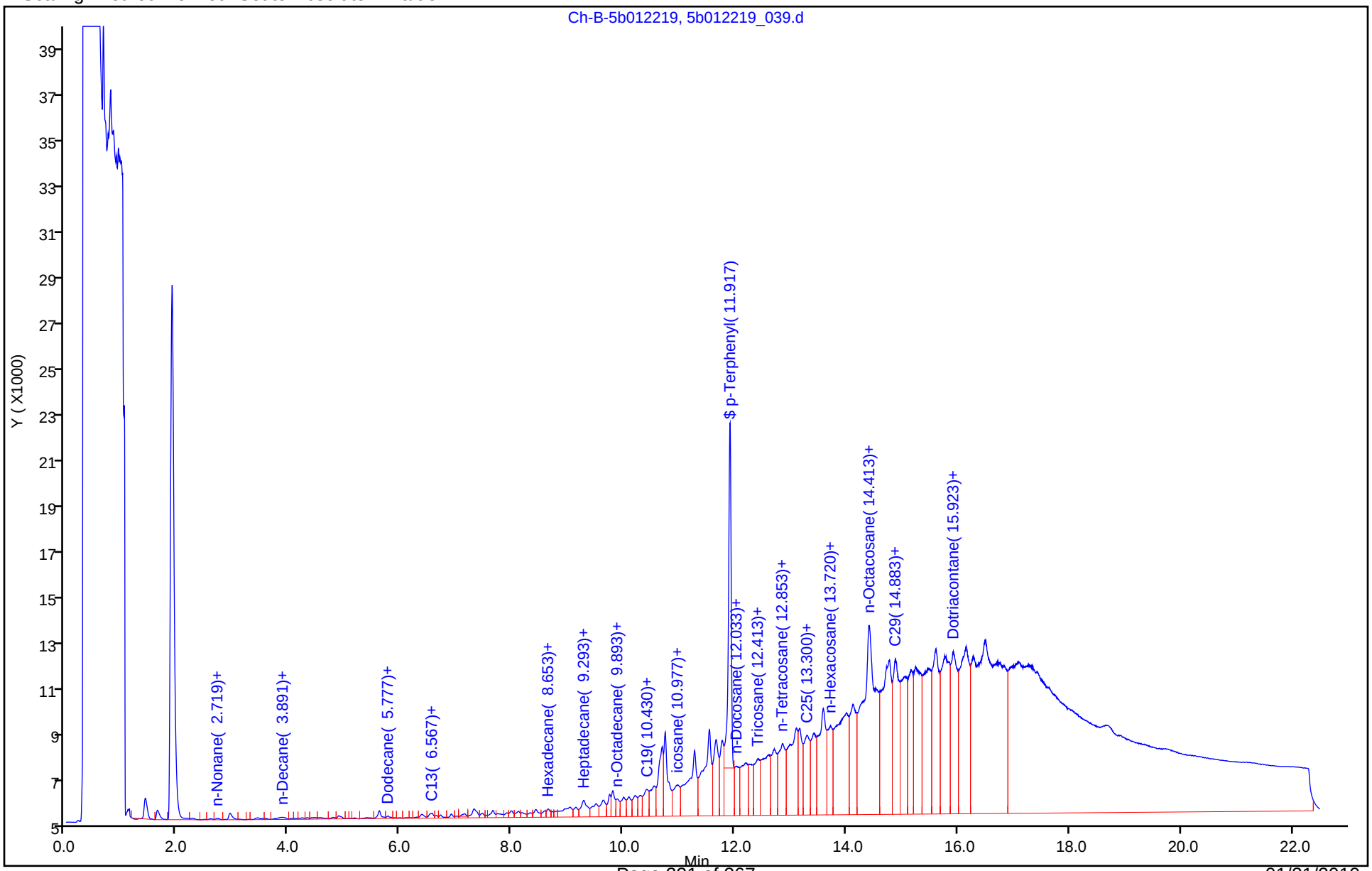
Report Date: 23-Jan-2019 16:47:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_039.d

Injection Date:	23-Jan-2019 03:33:03	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-33-D	Lab Sample ID:	720-90698-33	Worklist Smp#:	39
Client ID:	DUP-89				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_039.d				
Lims ID:	720-90698-E-33-D				
Client ID:	DUP-89				
Sample Type:	Client				
Inject. Date:	23-Jan-2019 03:33:03	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 115 Name: 720-0056216-039				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	23-Jan-2019 16:47:51	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: hayashid Date: 23-Jan-2019 16:47:51

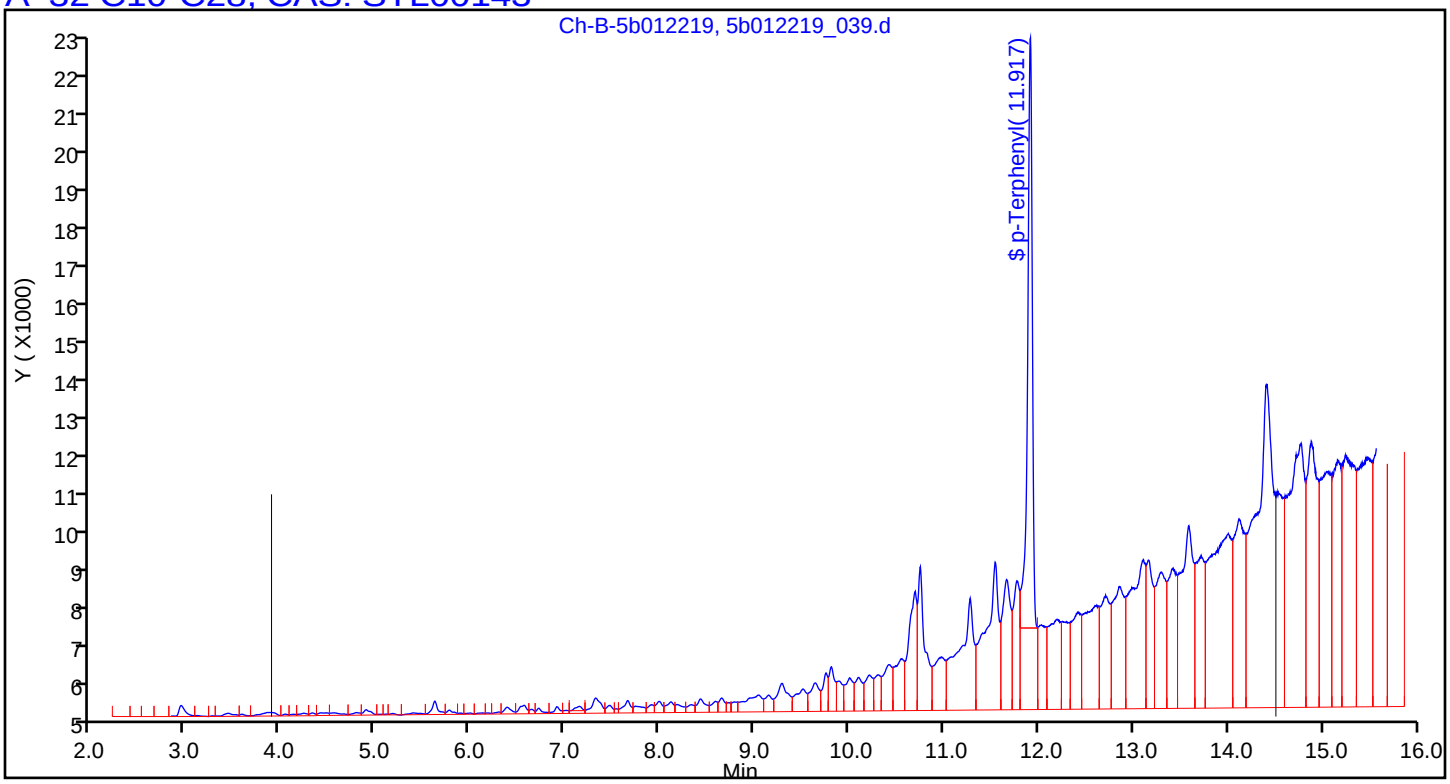
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.5	82.07

Report Date: 23-Jan-2019 16:47:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_039.d				
Injection Date:	23-Jan-2019 03:33:03	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-33-D	Lab Sample ID:	720-90698-33		
Client ID:	DUP-89				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

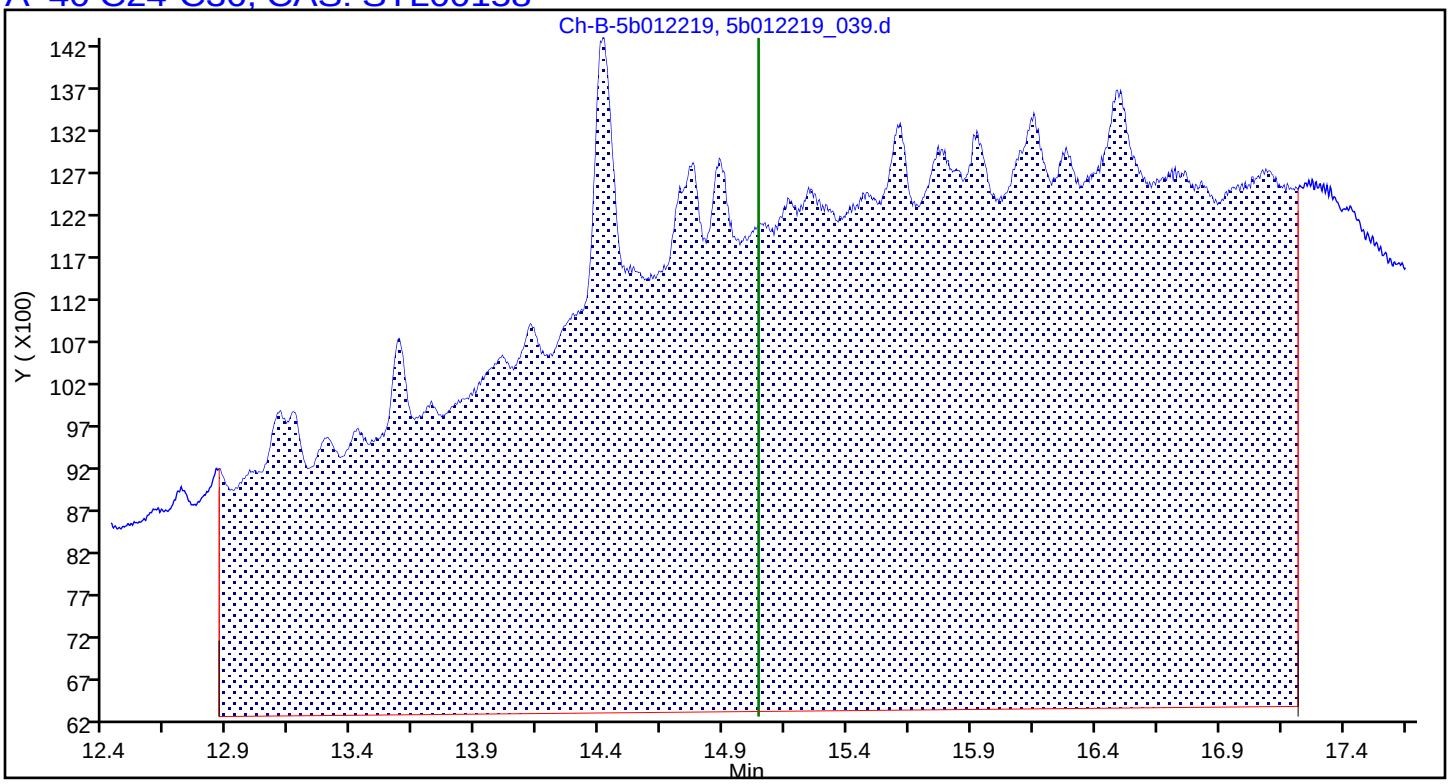


Report Date: 23-Jan-2019 16:47:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_039.d				
Injection Date:	23-Jan-2019 03:33:03	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-33-D	Lab Sample ID:	720-90698-33		
Client ID:	DUP-89				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

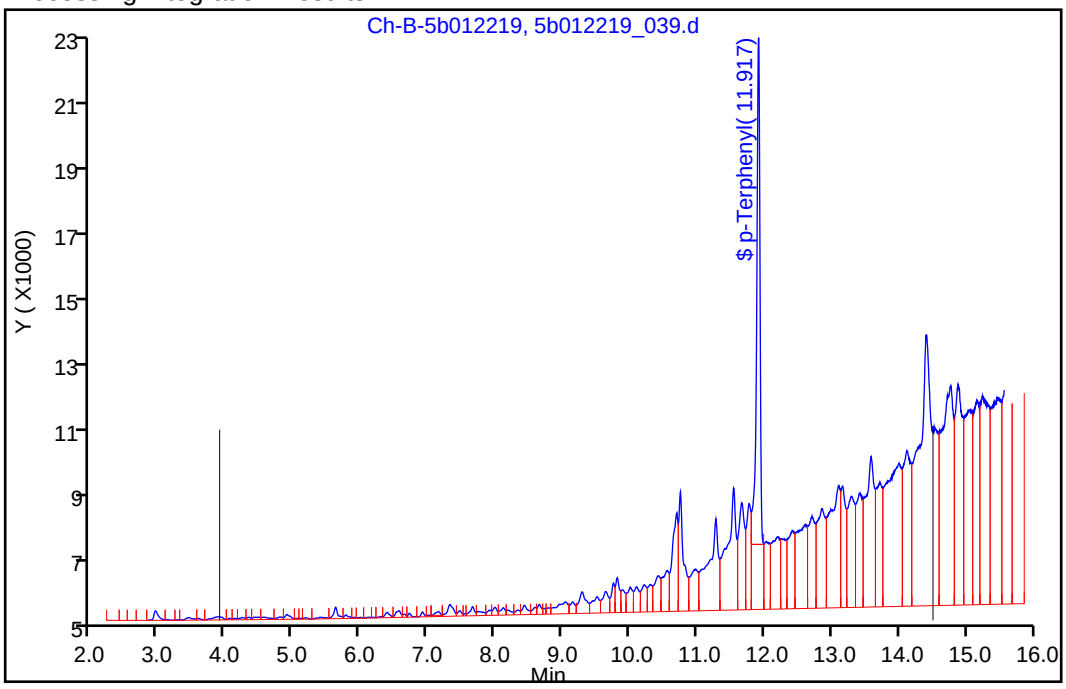
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Injection Date:	23-Jan-2019 03:33:03	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-33-D	Lab Sample ID:	720-90698-33		
Client ID:	DUP-89				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.204, CAS: STL00143

Signal: 1

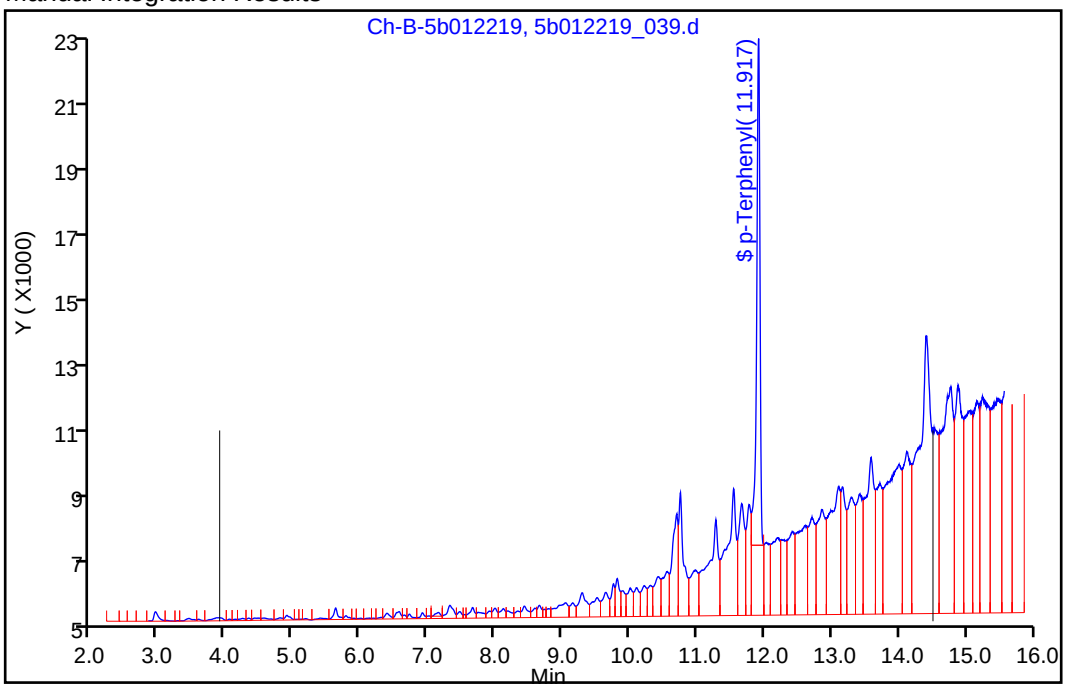
Processing Integration Results

RT: 9.20
Response: 3874336
Amount: 394.6069



Manual Integration Results

RT: 9.20
Response: 4223269
Amount: 430.1463



Reviewer: hayashid, 23-Jan-2019 16:47:46

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000011.D
Lims ID: 720-90698-E-34-Y
Client ID: DG-O15S-0.5-1
Sample Type: Client
Inject. Date: 21-Jan-2019 12:58:56 ALS Bottle#: 61 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056192-011
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Jan-2019 13:26:52 Calib Date: 21-Jan-2019 09:45:13
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 13:26:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	1.351	1.348	0.003	21446	NC	M
23 n-Decane	2.207	2.201	0.006	664434	NC	M
A 1 C9-C13	2.805	(1.348-4.262)		17205626	NC	M
A 21 Stoddard Solvent	2.805	(1.348-4.262)		17205626	7.23	M
A 57 C10-C12	2.925	(2.201-3.649)		9240402	4.67	M
24 Dodecane	3.653	3.649	0.004	994178	NC	M
A 3 C9 - C17	3.830	(1.348-6.312)		148545671	51.7	M
A 60 C10-C16	4.022	(2.201-5.842)		89347409	34.9	M
A 47 C9 - C18	4.052	(1.348-6.757)		221610180	97.7	M
26 C13	4.266	4.262	0.004	1135004	NC	M
A 15 Kerosene	4.264	(1.348-7.181)		304777436	134.1	M
A 25 C9-C19	4.264	(1.348-7.181)		304777436	105.5	M
$ 27 n-Decanoic Acid (Surr)		4.610			ND	U
A 59 C12-C16	4.746	(3.649-5.842)		80107007	40.5	M
A 61 C10-C20	4.894	(2.201-7.587)		374172434	189.2	M
A 28 C9-C24	5.201	(1.348-9.054)		661147849	334.3	M
A 29 C9-C25	5.367	(1.348-9.386)		736470700	372.4	M
A 54 C10-C23	5.455	(2.201-8.708)		608299807	307.6	M
A 4 C10-C24	5.627	(2.201-9.054)		659125145	333.3	M
A 16 C10-C25	5.794	(2.201-9.386)		734447996	371.4	M
45 Hexadecane	5.846	5.842	0.004	7946928	NC	M
A 14 C10-C26	5.954	(2.201-9.706)		763258076	386.0	M
A 67 C12-C22	5.999	(3.649-8.350)		516097863	261.0	M
A 5 Diesel	6.258	(2.201-10.315)		978234491	494.7	M
A 12 Unknown Hydrocarbons	6.258	(2.201-10.315)		978234491	NC	M
A 32 C10-C28	6.258	(2.201-10.315)		978234491	494.7	M
A 30 C13-C22	6.306	(4.262-8.350)		510155343	258.0	M
44 Heptadecane	6.350	6.312	0.038	16807347	NC	M
A 31 C12-C24	6.351	(3.649-9.054)		649884743	328.6	M
49 n-Octadecane	6.766	6.757	0.010	7197853	NC	M
A 9 Crude Oil Range Organics (	6.873	(1.348-12.399)		1759387666	NC	M
A 11 Bunker Range Organics (C9-	6.873	(1.348-12.399)		1759387666	NC	M

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	6.873	(1.348-12.399)		1759387666	764.5	M
33 C19	7.179	7.181	-0.002	31579924	NC	M
A 64 C13-C28	7.288	(4.262-10.315)		963051569	487.0	M
A 17 C10-C36	7.300	(2.201-12.399)		1757364962	888.7	M
A 68 Crude Oil Range Organics (	7.361	(1.348-13.374)		2528093139	NC	M
A 13 C9-C40	7.361	(1.348-13.374)		2528093139	1426.2	M
A 58 C16-C24	7.448	(5.842-9.054)		569777736	288.1	M
62 icosane	7.590	7.587	0.003	11511328	NC	M
A 6 C10-C40	7.788	(2.201-13.374)		2526070435	1426.7	M
$ 34 p-Terphenyl	8.045	8.057	-0.012	48308329	20.5	M
35 n-Docosane	8.357	8.350	0.007	12577365	NC	M
A 18 C12-C40	8.511	(3.649-13.374)		2516830033	1426.7	M
36 Tricosane	8.707	8.708	-0.001	14095654	NC	M
A 66 C13-C40	8.818	(4.262-13.374)		2510887513	1424.6	M
37 n-Tetracosane	9.062	9.054	0.008	26438170	NC	M
A 2 C16-C36 ORO	9.120	(5.842-12.399)		1668017553	1231.9	M
38 C25	9.389	9.386	0.003	28810080	NC	M
A 19 C16-C40	9.608	(5.842-13.374)		2436723026	1385.3	M
46 n-Hexacosane	9.749	9.706	0.043	71867727	NC	M
A 20 C19-C36	9.790	(7.181-12.399)		838802037	521.0	
A 55 C23-C32	10.064	(8.708-11.419)		817846961	922.0	M
39 n-Octacosane	10.262	10.315	-0.053	35345629	NC	M
65 C29	10.605	10.605	0.000	38407173	NC	M
A 40 C24-C36	10.726	(9.054-12.399)		1094765309	946.4	M
A 7 Motor Oil	10.726	(9.054-12.399)		778535879	673.0	
A 10 C22-C40	10.862	(8.350-13.374)		940039633	580.7	
A 50 C25-C36	10.892	(9.386-12.399)		640802319	592.0	
A 41 C23-C40	11.041	(8.708-13.374)		917512385	577.8	
A 8 C24-C40	11.214	(9.054-13.374)		950142734	611.3	
56 Dotriacontane	11.406	11.419	-0.013	66530547	NC	M
A 51 C28-C40	11.845	(10.315-13.374)		779635682	626.8	
A 63 C29-C40	11.989	(10.605-13.374)		710848907	622.5	
42 n-Hexatriacontane	12.481	12.399	0.082	48803228	NC	M
43 C40		13.374			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

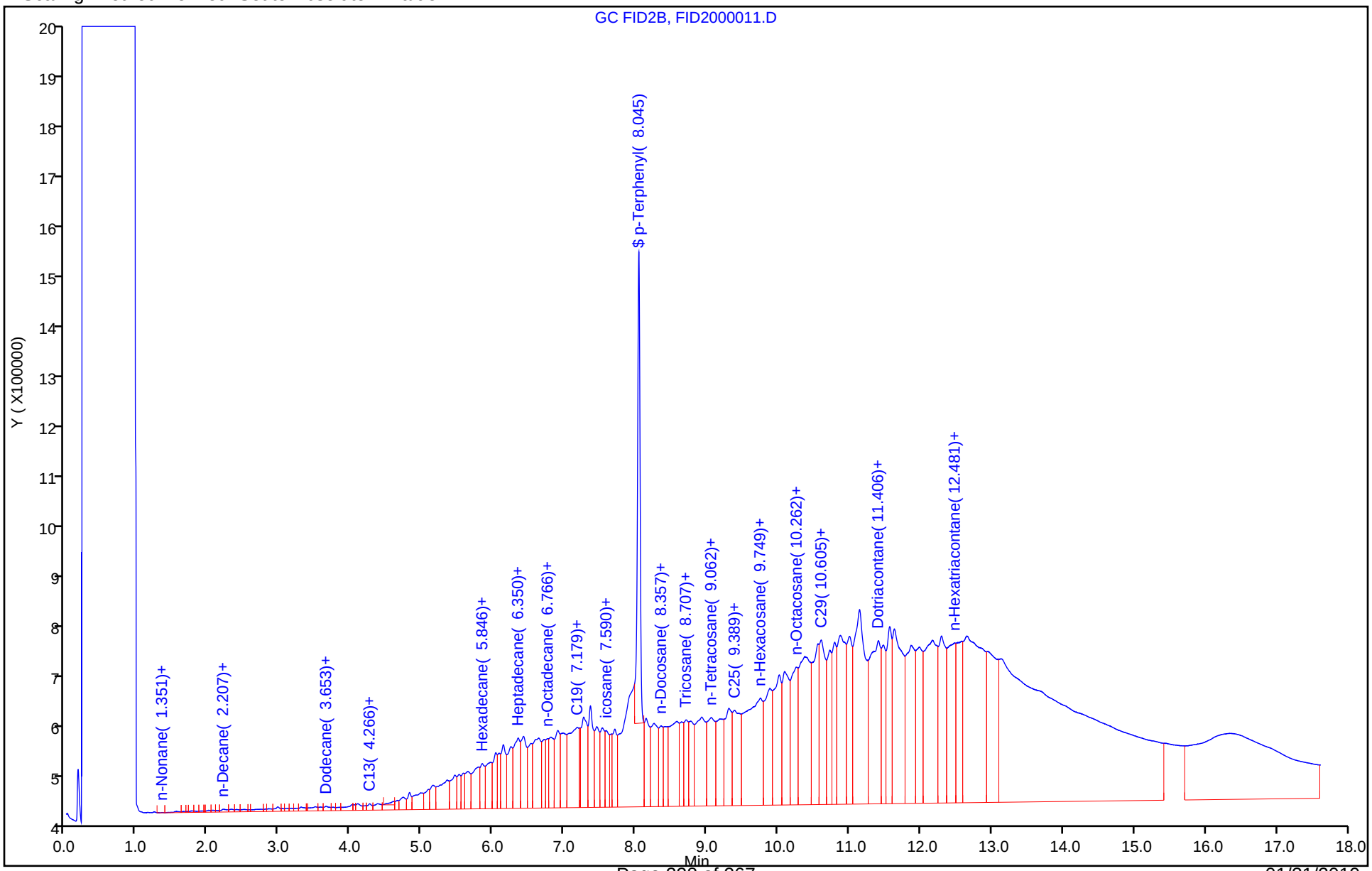
Report Date: 21-Jan-2019 13:26:53 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000011.D

Injection Date:	21-Jan-2019 12:58:56	Instrument ID:	CHDRO6	Operator ID:	RLU
Lims ID:	720-90698-E-34-Y	Lab Sample ID:	720-90698-34	Worklist Smp#:	11
Client ID:	DG-O15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	61
Method:	DRO6_B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000011.D
Lims ID: 720-90698-E-34-Y
Client ID: DG-O15S-0.5-1
Sample Type: Client
Inject. Date: 21-Jan-2019 12:58:56 ALS Bottle#: 61 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 720-0056192-011
Operator ID: RLU Instrument ID: CHDRO6

Method: \\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\DRO6_B.m
Limit Group: DRO
Last Update: 21-Jan-2019 13:26:52 Calib Date: 21-Jan-2019 09:45:13
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000003.D

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 21-Jan-2019 13:26:52

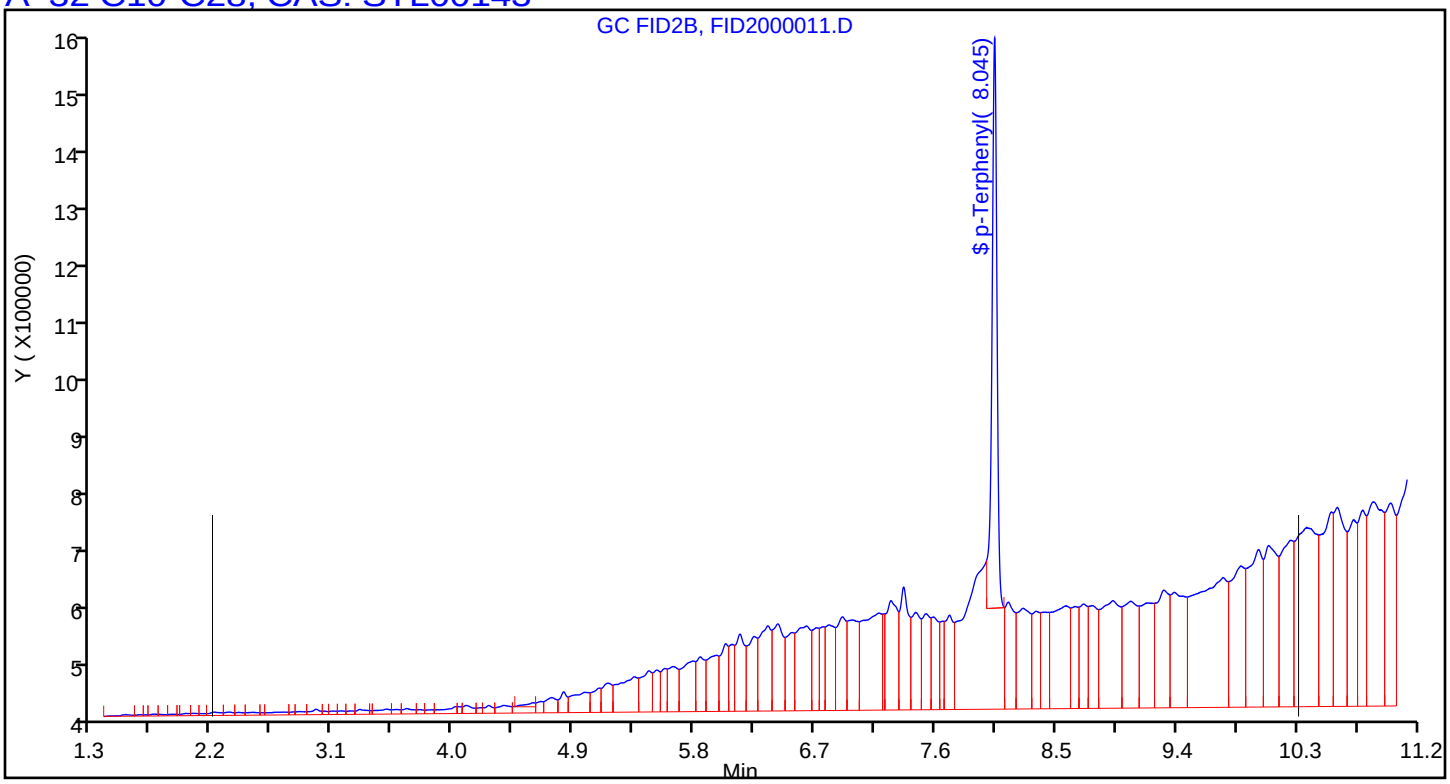
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.5	81.95

Report Date: 21-Jan-2019 13:26:56 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000011.D				
Injection Date:	21-Jan-2019 12:58:56	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-34-Y	Lab Sample ID:	720-90698-34		
Client ID:	DG-O15S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

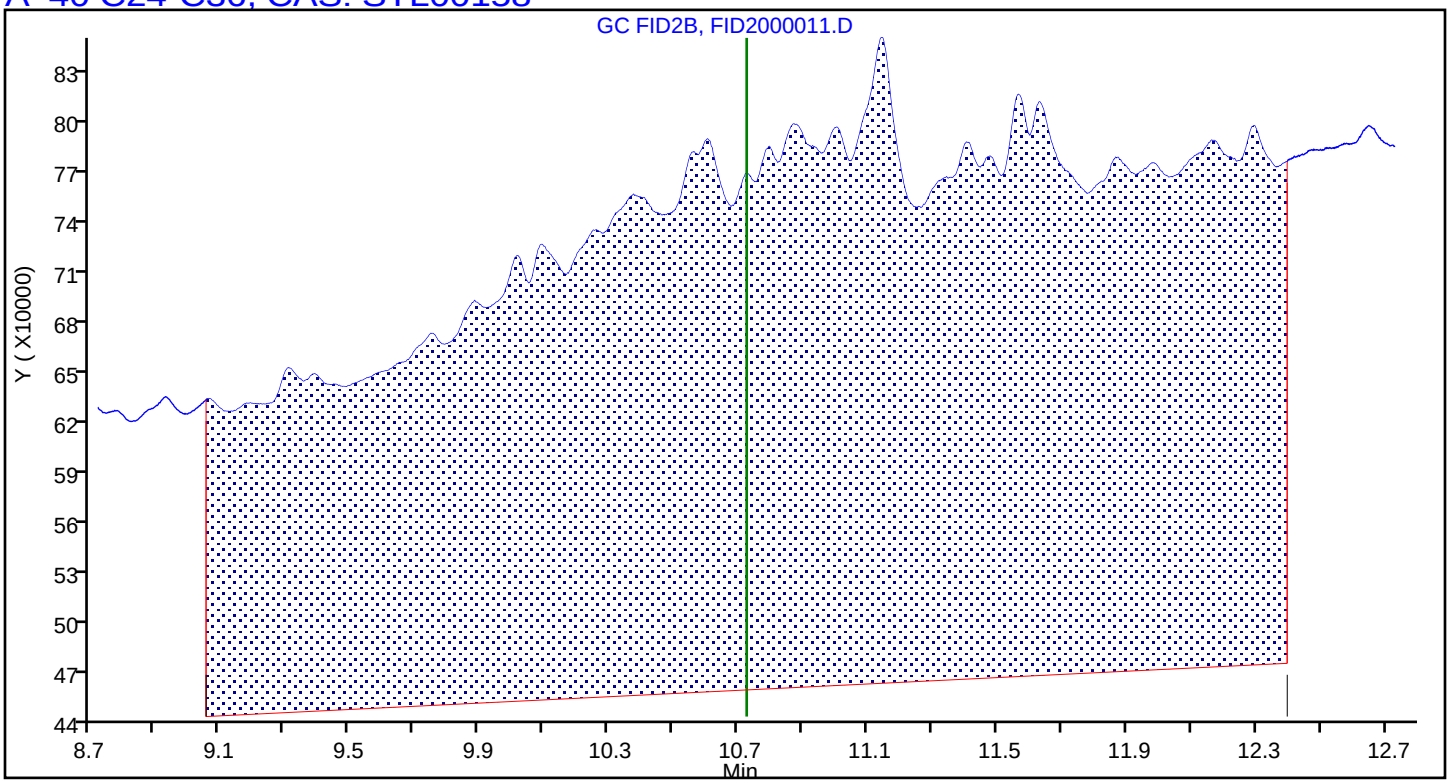


Report Date: 21-Jan-2019 13:26:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000011.D				
Injection Date:	21-Jan-2019 12:58:56	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-34-Y	Lab Sample ID:	720-90698-34		
Client ID:	DG-O15S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

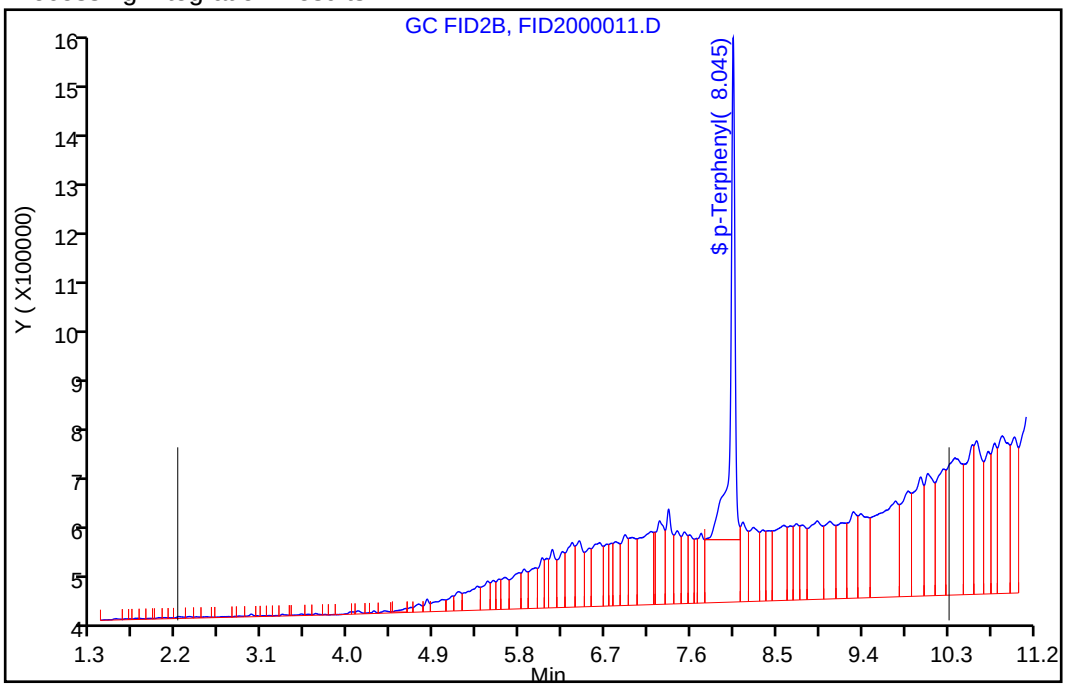
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000011.D				
Injection Date:	21-Jan-2019 12:58:56	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-34-Y	Lab Sample ID:	720-90698-34		
Client ID:	DG-O15S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 6.258, CAS: STL00143

Signal: 1

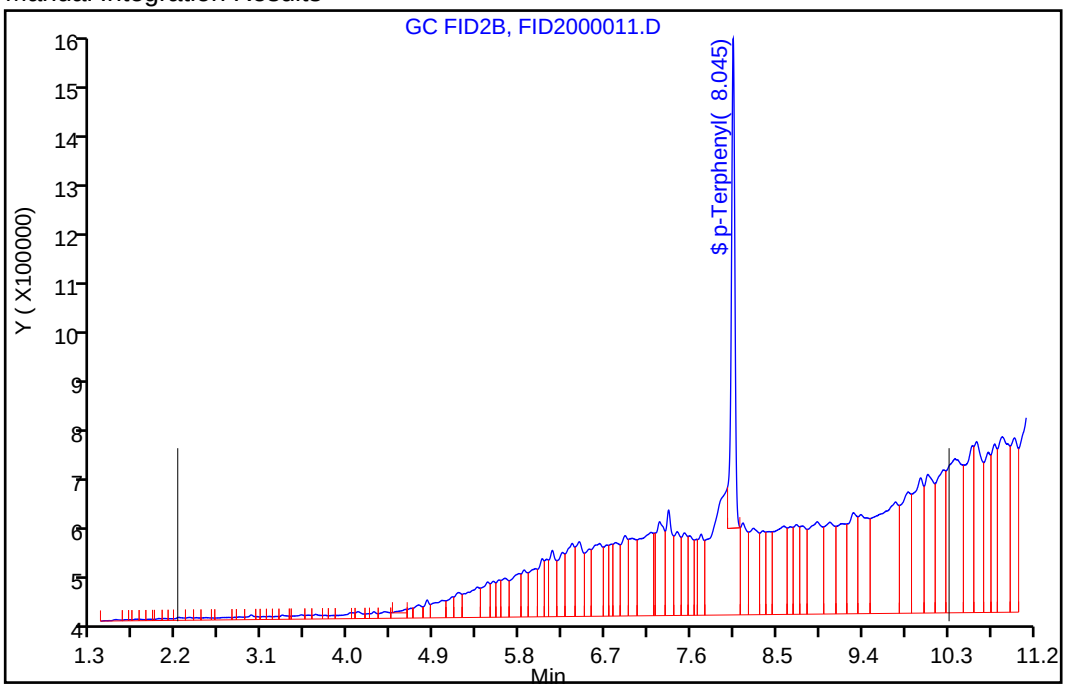
Processing Integration Results

RT: 6.26
Response: 800185892
Amount: 404.6494



Manual Integration Results

RT: 6.26
Response: 978234491
Amount: 494.6875



Reviewer: luj, 21-Jan-2019 13:26:06

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

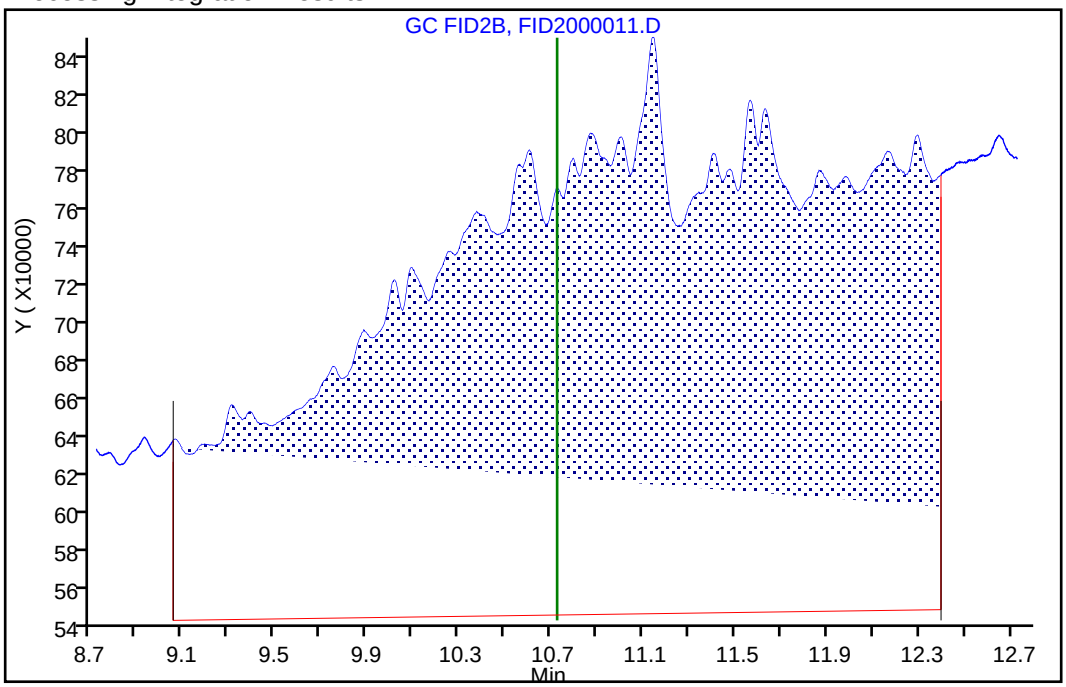
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000011.D				
Injection Date:	21-Jan-2019 12:58:56	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-34-Y	Lab Sample ID:	720-90698-34		
Client ID:	DG-O15S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 10.726, CAS: STL00158

Signal: 1

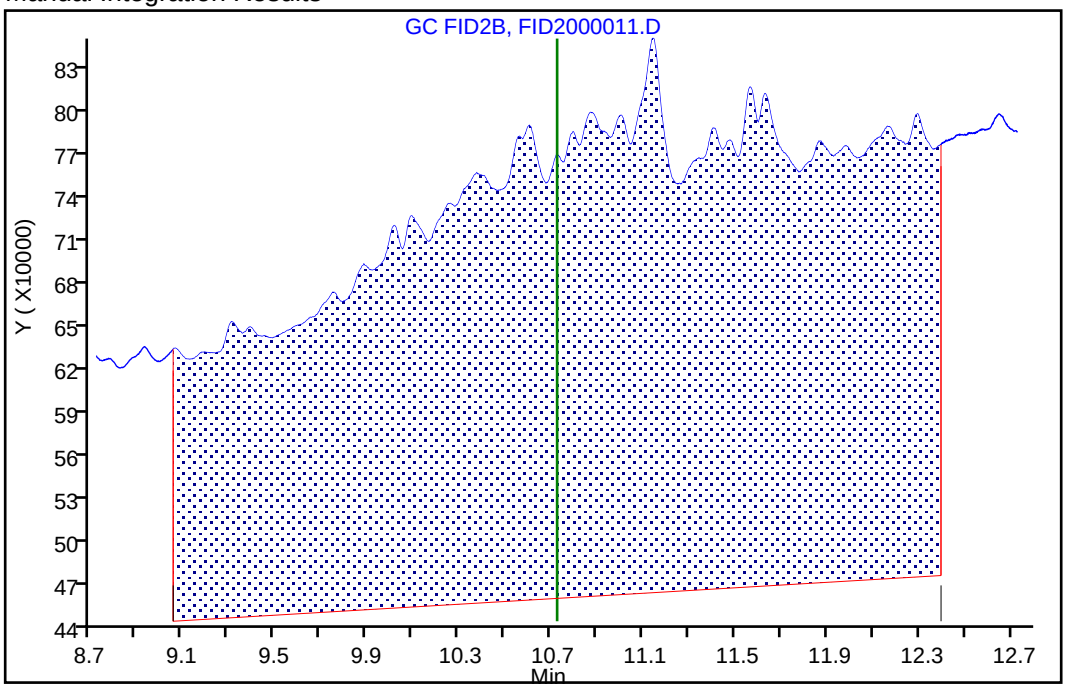
Processing Integration Results

RT: 10.73
Response: 778535879
Amount: 673.0047



Manual Integration Results

RT: 10.73
Response: 1094765309
Amount: 946.3690



Reviewer: luj, 21-Jan-2019 13:26:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

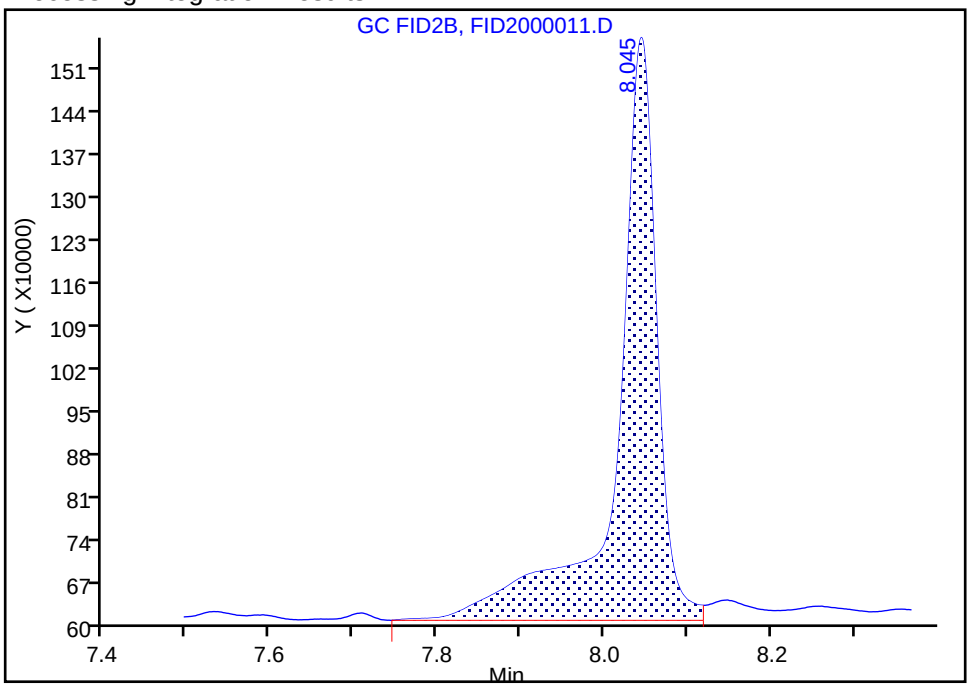
Data File:	\\chromna\Pleasanton\ChromData\CHDRO6\20190121-56192.b\FID2000011.D				
Injection Date:	21-Jan-2019 12:58:56	Instrument ID:	CHDRO6		
Lims ID:	720-90698-E-34-Y	Lab Sample ID:	720-90698-34		
Client ID:	DG-O15S-0.5-1				
Operator ID:	RLU	ALS Bottle#:	61	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO6_B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

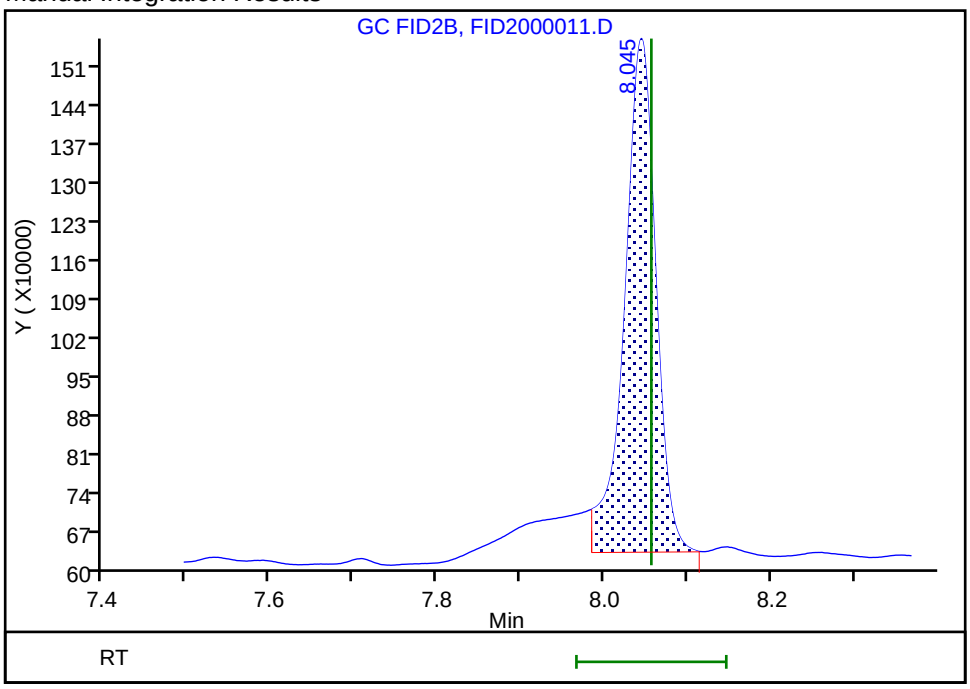
Processing Integration Results

RT: 8.04
Area: 64830654
Amount: 27.493357
Amount Units: mg/L



Manual Integration Results

RT: 8.04
Area: 48308329
Amount: 20.486576
Amount Units: mg/L



Reviewer: luj, 21-Jan-2019 13:26:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_012.d
Lims ID: 720-90698-E-35-H
Client ID: DG-O15S-3.5-4
Sample Type: Client
Inject. Date: 22-Jan-2019 14:00:54 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 141 Name: 720-0056216-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 22-Jan-2019 14:26:24 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0329

First Level Reviewer: luj Date: 22-Jan-2019 14:26:24

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.622	2.679	-0.057	1067	NC	
	23 n-Decane	3.933	3.898	0.035	968	NC	
A	21 Stoddard Solvent	4.628	(2.679-6.578)		49475	4.35	
A	1 C9-C13	4.628	(2.679-6.578)		49475	3.91	
A	57 C10-C12	4.839	(3.898-5.780)		30733	3.13	
	24 Dodecane	5.771	5.780	-0.009	575	NC	
A	3 C9 - C17	5.979	(2.679-9.278)		98778	6.99	
A	47 C9 - C18	6.267	(2.679-9.856)		120410	10.7	
A	60 C10-C16	6.275	(3.898-8.652)		71923	5.76	
A	25 C9-C19	6.545	(2.679-10.410)		151858	10.7	
A	15 Kerosene	6.545	(2.679-10.410)		151858	13.5	
	26 C13	6.531	6.578	-0.047	2598	NC	
$	27 n-Decanoic Acid (Surr)		7.196			ND	U
A	59 C12-C16	7.216	(5.780-8.652)		41765	4.25	
A	62 C10-C20	7.421	(3.898-10.944)		180184	18.4	
A	28 C9-C24	7.771	(2.679-12.863)		390175	39.7	
A	29 C9-C25	7.988	(2.679-13.297)		440824	44.9	
A	54 C10-C23	8.155	(3.898-12.412)		334099	34.0	
A	4 C10-C24	8.381	(3.898-12.863)		377694	38.5	
A	16 C10-C25	8.598	(3.898-13.297)		428343	43.6	
	45 Hexadecane	8.658	8.652	0.006	3386	NC	
A	14 C10-C26	8.807	(3.898-13.715)		464226	47.3	
A	67 C12-C22	8.862	(5.780-11.943)		250156	25.5	
A	12 Unknown Hydrocarbons	9.204	(3.898-14.509)		628734	NC	
A	32 C10-C28	9.204	(3.898-14.509)		628734	64.0	
A	5 Diesel	9.204	(3.898-14.509)		628734	64.0	
A	30 C13-C22	9.260	(6.578-11.943)		245918	25.0	
	44 Heptadecane	9.290	9.278	0.012	7769	NC	
A	31 C12-C24	9.321	(5.780-12.863)		347536	35.4	
	49 n-Octadecane	9.892	9.856	0.036	6746	NC	
A	11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		1750668	NC	
A	9 Crude Oil Range Organics (	10.043	(2.867-17.220)		2008943	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		2009554	185.0	
33 C19	10.417	10.410	0.007	4400	NC	
A 64 C13-C28	10.543	(6.578-14.509)		594338	60.5	
A 17 C10-C36	10.559	(3.898-17.220)		1738187	177.0	
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		2438701	NC	
A 13 C9-C40	10.716	(2.679-18.754)		2438701	275.4	
A 58 C16-C24	10.757	(8.652-12.863)		305771	31.1	
61 icosane	10.973	10.944	0.029	8027	NC	
A 6 C10-C40	11.326	(3.898-18.754)		2425029	273.8	
$ 34 p-Terphenyl	11.910	11.913	-0.003	287832	22.8	
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		2386188	269.2	
36 Tricosane	12.407	12.412	-0.005	16985	NC	
A 66 C13-C40	12.666	(6.578-18.754)		2253656	254.2	
37 n-Tetracosane	12.861	12.863	-0.002	19171	NC	
A 2 C16-C36 ORO	12.936	(8.652-17.220)		1566727	219.6	
38 C25	13.294	13.297	-0.003	20820	NC	
A 19 C16-C40	13.703	(8.652-18.754)		2313516	260.9	
46 n-Hexacosane	13.721	13.715	0.006	51362	NC	
A 20 C19-C36	13.815	(10.410-17.220)		1296766	166.3	
A 55 C23-C32	14.179	(12.412-15.946)		795696	193.7	
39 n-Octacosane		14.509			ND	
65 C29	14.879	14.886	-0.007	120379	NC	
A 7 Motor Oil	15.041	(12.863-17.220)		1323876	231.9	
A 40 C24-C36	15.041	(12.863-17.220)		1323876	231.9	
A 50 C25-C36	15.258	(13.297-17.220)		1282269	238.3	
A 10 C22-C40	15.348	(11.943-18.754)		1479746	186.8	
A 41 C23-C40	15.583	(12.412-18.754)		1724929	223.1	
A 8 C24-C40	15.808	(12.863-18.754)		1689773	226.5	
56 Dotriacontane	15.882	15.946	-0.064	65505	NC	
A 51 C28-C40	16.631	(14.509-18.754)		1443009	263.5	
A 63 C29-C40	16.820	(14.886-18.754)		1322574	269.0	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

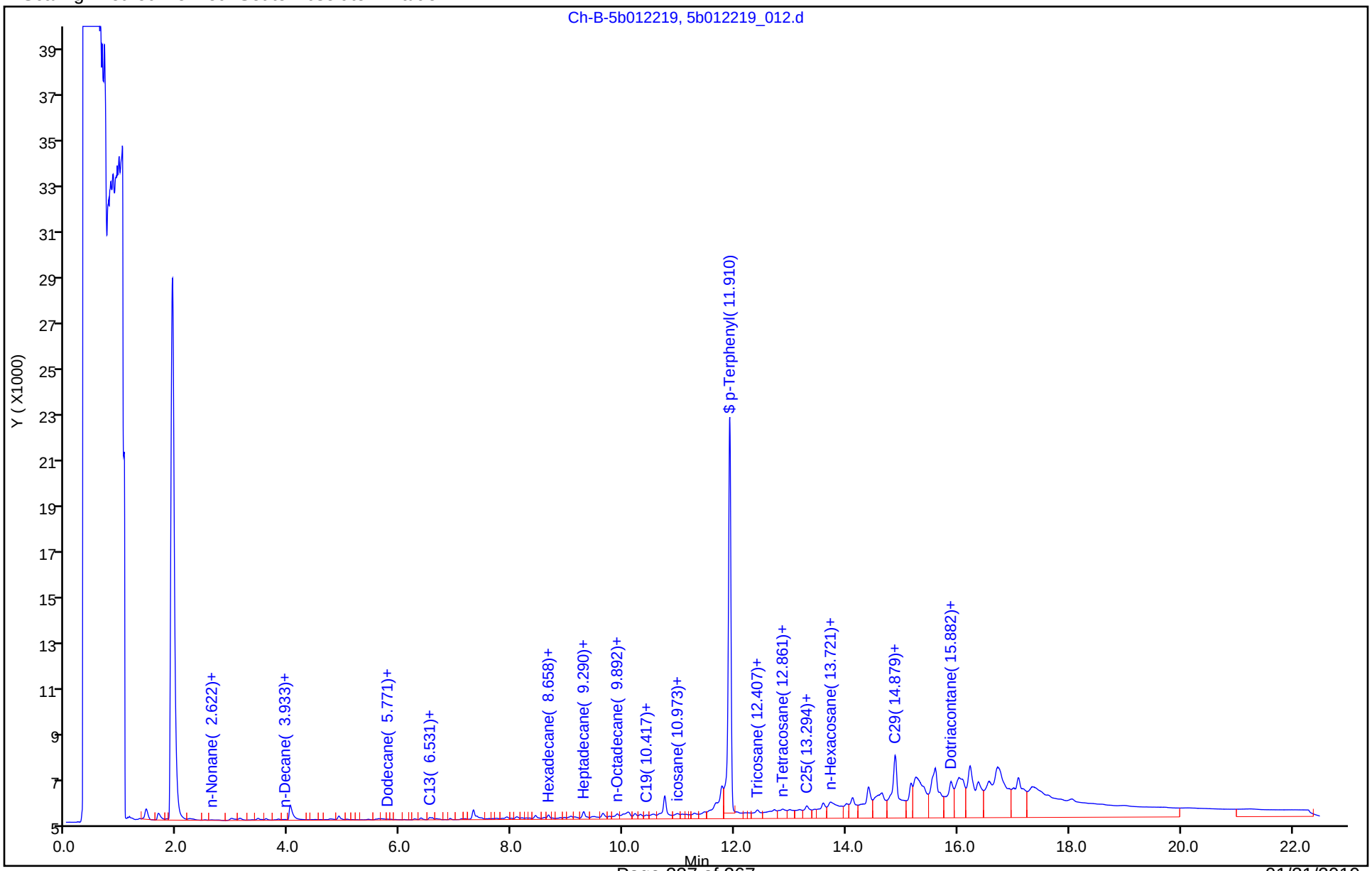
Report Date: 22-Jan-2019 14:26:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_012.d

Injection Date:	22-Jan-2019 14:00:54	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-35-H	Lab Sample ID:	720-90698-35	Worklist Smp#:	12
Client ID:	DG-O15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_012.d				
Lims ID:	720-90698-E-35-H				
Client ID:	DG-O15S-3.5-4				
Sample Type:	Client				
Inject. Date:	22-Jan-2019 14:00:54	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 141 Name: 720-0056216-012				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	22-Jan-2019 14:26:24	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0329				

First Level Reviewer: luj Date: 22-Jan-2019 14:26:24

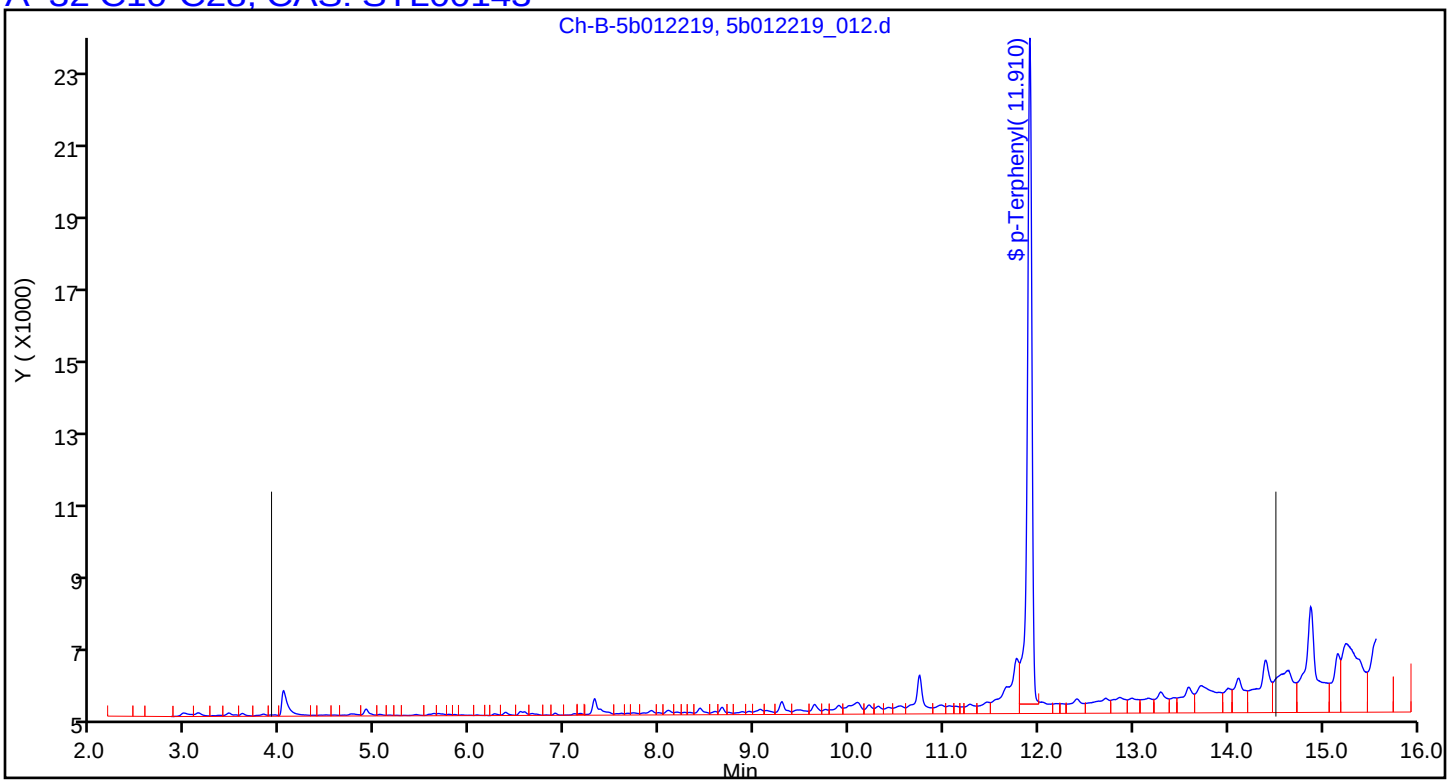
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.8	91.35

Report Date: 22-Jan-2019 14:26:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_012.d				
Injection Date:	22-Jan-2019 14:00:54	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-35-H	Lab Sample ID:	720-90698-35		
Client ID:	DG-O15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

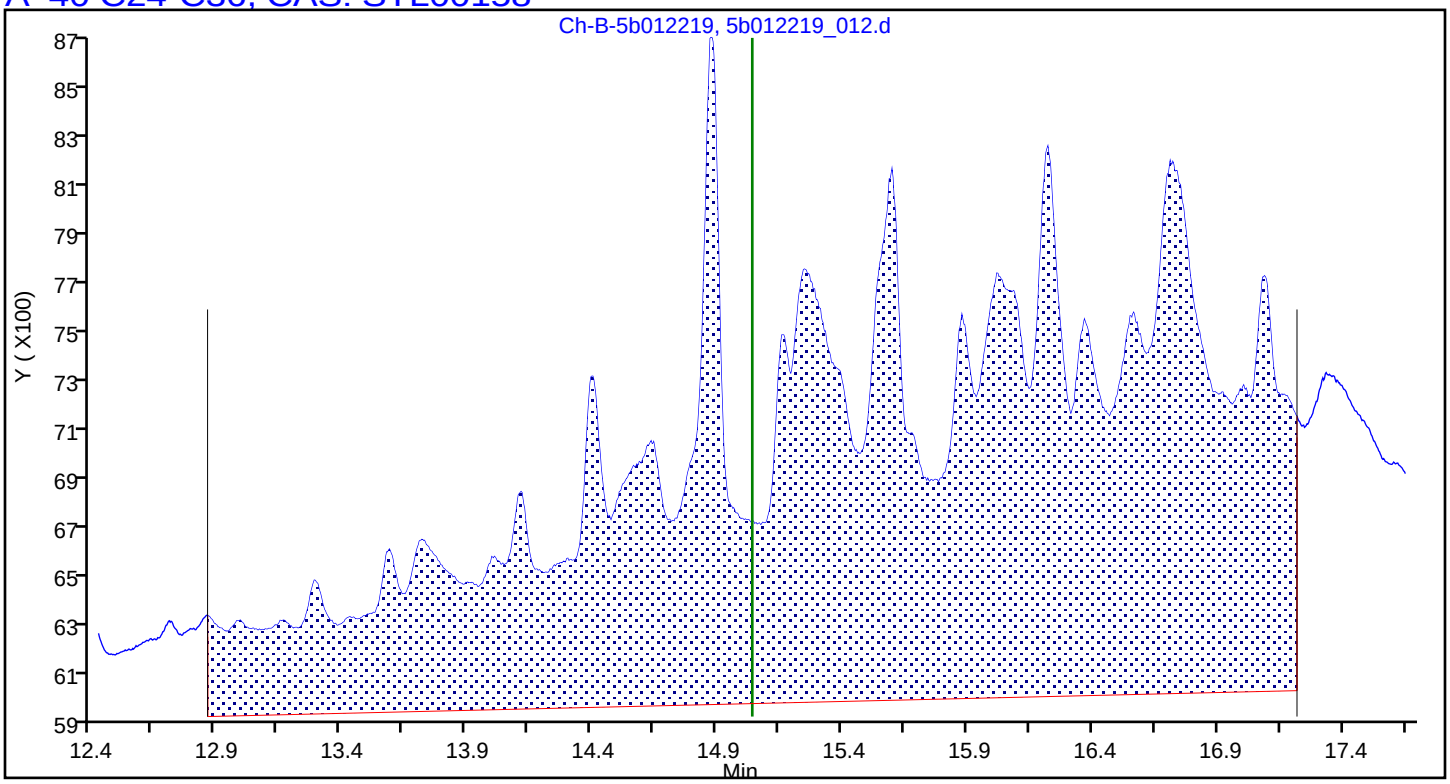


Report Date: 22-Jan-2019 14:26:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_012.d				
Injection Date:	22-Jan-2019 14:00:54	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-35-H	Lab Sample ID:	720-90698-35		
Client ID:	DG-O15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_034.d
Lims ID: 720-90698-E-36-E
Client ID: DG-O15S-7.5-8
Sample Type: Client
Inject. Date: 23-Jan-2019 01:07:50 ALS Bottle#: 0 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 112 Name: 720-0056216-034
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m
Limit Group: DRO
Last Update: 23-Jan-2019 16:31:26 Calib Date: 22-Jan-2019 07:57:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: hayashid Date: 23-Jan-2019 16:31:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.707	2.679	0.028	313	NC	
23 n-Decane	3.906	3.898	0.008	779	NC	
A 21 Stoddard Solvent	4.628	(2.679-6.578)		11256	0.99	
A 1 C9-C13	4.628	(2.679-6.578)		11256	0.8887	
A 57 C10-C12	4.839	(3.898-5.780)		4964	0.5056	
24 Dodecane	5.716	5.780	-0.064	1321	NC	
A 3 C9 - C17	5.979	(2.679-9.278)		17260	1.22	
A 47 C9 - C18	6.267	(2.679-9.856)		19750	1.76	
A 60 C10-C16	6.275	(3.898-8.652)		12479	1.00	
A 25 C9-C19	6.545	(2.679-10.410)		22895	1.62	
A 15 Kerosene	6.545	(2.679-10.410)		22895	2.03	
26 C13	6.535	6.578	-0.043	935	NC	
$ 27 n-Decanoic Acid (Surr)		7.196			ND	U
A 59 C12-C16	7.216	(5.780-8.652)		8836	0.9000	
A 62 C10-C20	7.421	(3.898-10.944)		29704	3.03	
A 28 C9-C24	7.771	(2.679-12.863)		48046	4.89	
A 29 C9-C25	7.988	(2.679-13.297)		52632	5.36	
A 54 C10-C23	8.155	(3.898-12.412)		41024	4.18	
A 4 C10-C24	8.381	(3.898-12.863)		44572	4.54	
A 16 C10-C25	8.598	(3.898-13.297)		49158	5.01	
45 Hexadecane	8.653	8.652	0.001	600	NC	
A 14 C10-C26	8.807	(3.898-13.715)		59105	6.02	
A 67 C12-C22	8.862	(5.780-11.943)		33634	3.43	
A 12 Unknown Hydrocarbons	9.204	(3.898-14.509)		86027	NC	
A 32 C10-C28	9.204	(3.898-14.509)		86027	8.76	
A 5 Diesel	9.204	(3.898-14.509)		86027	8.76	
A 30 C13-C22	9.260	(6.578-11.943)		30430	3.10	
44 Heptadecane	9.294	9.278	0.016	1356	NC	
A 31 C12-C24	9.321	(5.780-12.863)		40929	4.17	
49 n-Octadecane	9.901	9.856	0.045	1177	NC	
A 11 Bunker Range Organics (C9-	9.950	(2.679-17.220)		145957	NC	
A 9 Crude Oil Range Organics (	9.193	(2.679-15.707)		360276	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.950	(2.679-17.220)		757813	69.8	
33 C19	10.414	10.410	0.004	225	NC	
A 64 C13-C28	10.543	(6.578-14.509)		79180	8.06	
A 17 C10-C36	9.802	(3.898-15.707)		142483	14.5	
A 68 Crude Oil Range Organics (	10.716	(2.679-18.754)		1407642	NC	
A 13 C9-C40	10.716	(2.679-18.754)		1407642	140.2	
A 58 C16-C24	10.757	(8.652-12.863)		32093	3.27	
61 icosane	10.939	10.944	-0.005	756	NC	
A 6 C10-C40	11.326	(3.898-18.754)		1403205	139.9	
$ 34 p-Terphenyl	11.920	11.913	0.007	321751	25.5	
35 n-Docosane		11.943			ND	
A 18 C12-C40	12.267	(5.780-18.754)		1393314	139.1	
36 Tricosane	12.413	12.412	0.001	3013	NC	
A 66 C13-C40	12.666	(6.578-18.754)		1347929	135.3	
37 n-Tetracosane	12.864	12.863	0.001	4586	NC	
A 2 C16-C36 ORO	12.936	(8.652-17.220)		670970	94.1	
38 C25	13.298	13.297	0.001	5747	NC	
A 19 C16-C40	13.703	(8.652-18.754)		1373525	137.5	
46 n-Hexacosane	13.716	13.715	0.001	6403	NC	
A 20 C19-C36	13.815	(10.410-17.220)		524332	67.2	
A 55 C23-C32	14.179	(12.412-15.946)		113016	27.5	
39 n-Octacosane	14.509	14.509	0.000	8526	NC	
65 C29	14.887	14.886	0.001	14389	NC	
A 7 Motor Oil	15.041	(12.863-17.220)		409049	71.7	
A 40 C24-C36	15.041	(12.863-17.220)		409049	71.7	
A 50 C25-C36	15.258	(13.297-17.220)		413942	76.9	
A 10 C22-C40	15.348	(11.943-18.754)		667964	84.3	
A 41 C23-C40	15.583	(12.412-18.754)		969984	125.5	
A 8 C24-C40	15.808	(12.863-18.754)		978608	131.2	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.631	(14.509-18.754)		962340	163.4	
A 63 C29-C40	16.820	(14.886-18.754)		947192	180.7	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

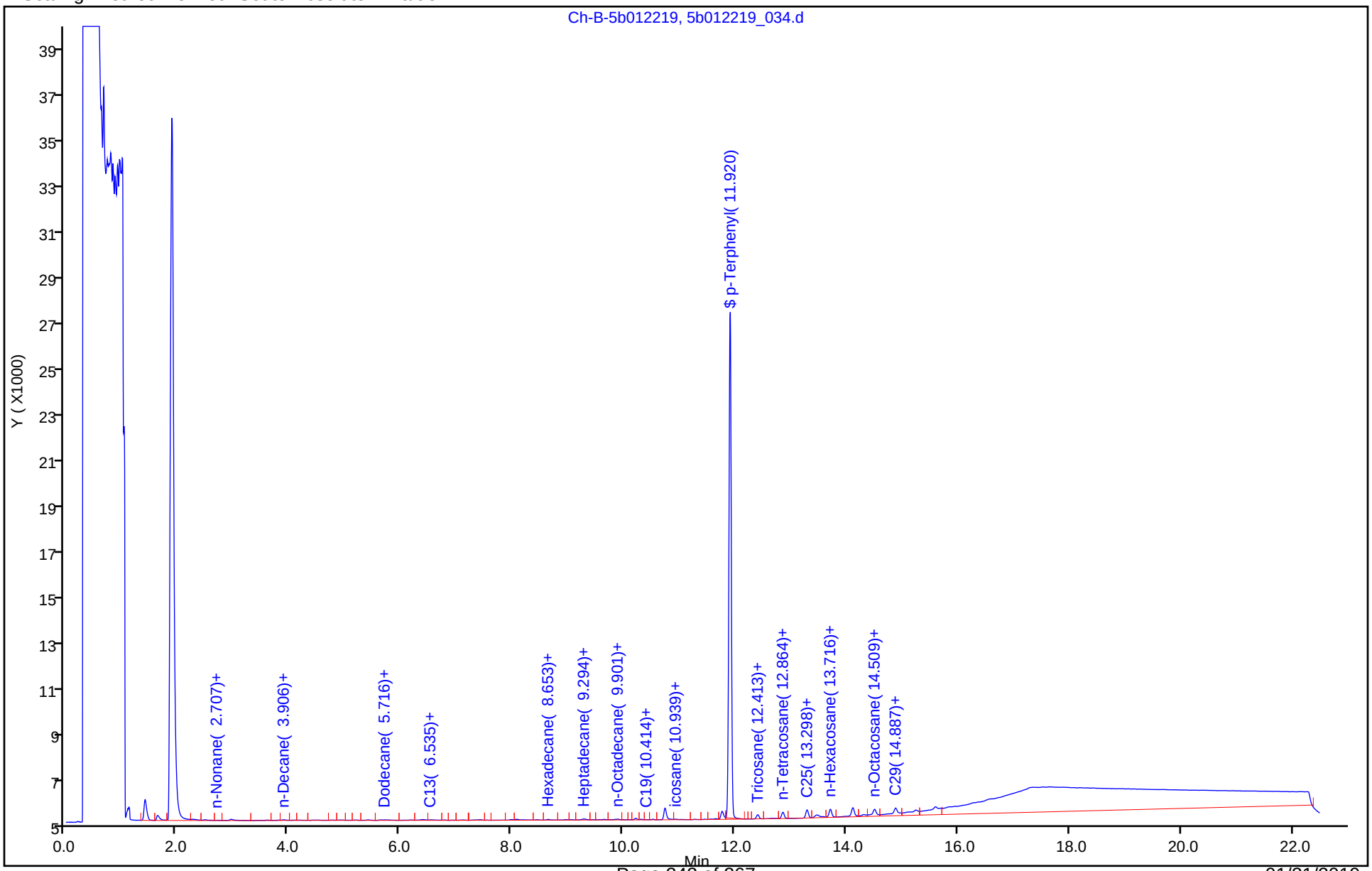
Report Date: 23-Jan-2019 16:31:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_034.d

Injection Date:	23-Jan-2019 01:07:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-36-E	Lab Sample ID:	720-90698-36	Worklist Smp#:	34
Client ID:	DG-O15S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_034.d				
Lims ID:	720-90698-E-36-E				
Client ID:	DG-O15S-7.5-8				
Sample Type:	Client				
Inject. Date:	23-Jan-2019 01:07:50	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 112 Name: 720-0056216-034				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	23-Jan-2019 16:31:26	Calib Date:	22-Jan-2019 07:57:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: hayashid Date: 23-Jan-2019 16:31:26

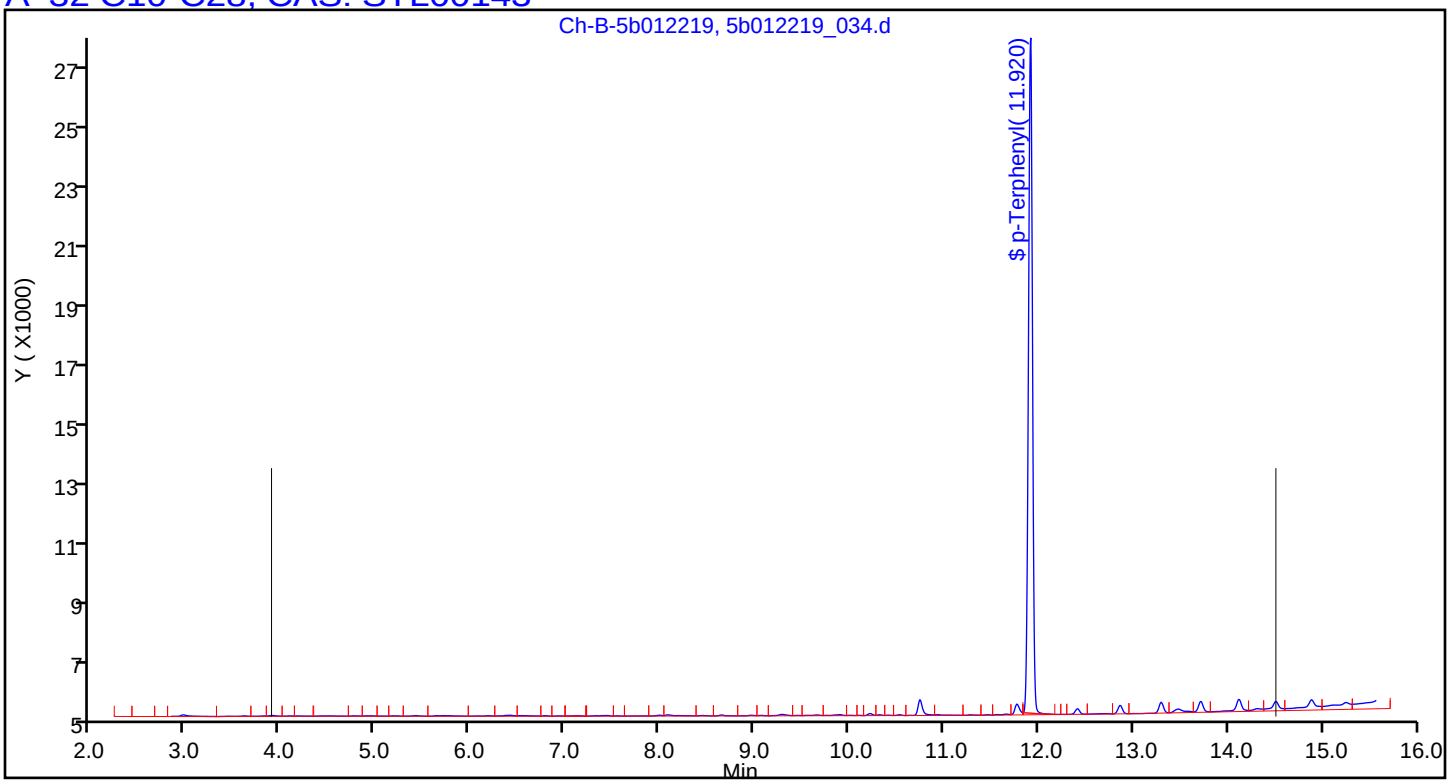
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.5	102.12

Report Date: 23-Jan-2019 16:31:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_034.d				
Injection Date:	23-Jan-2019 01:07:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-36-E	Lab Sample ID:	720-90698-36		
Client ID:	DG-O15S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

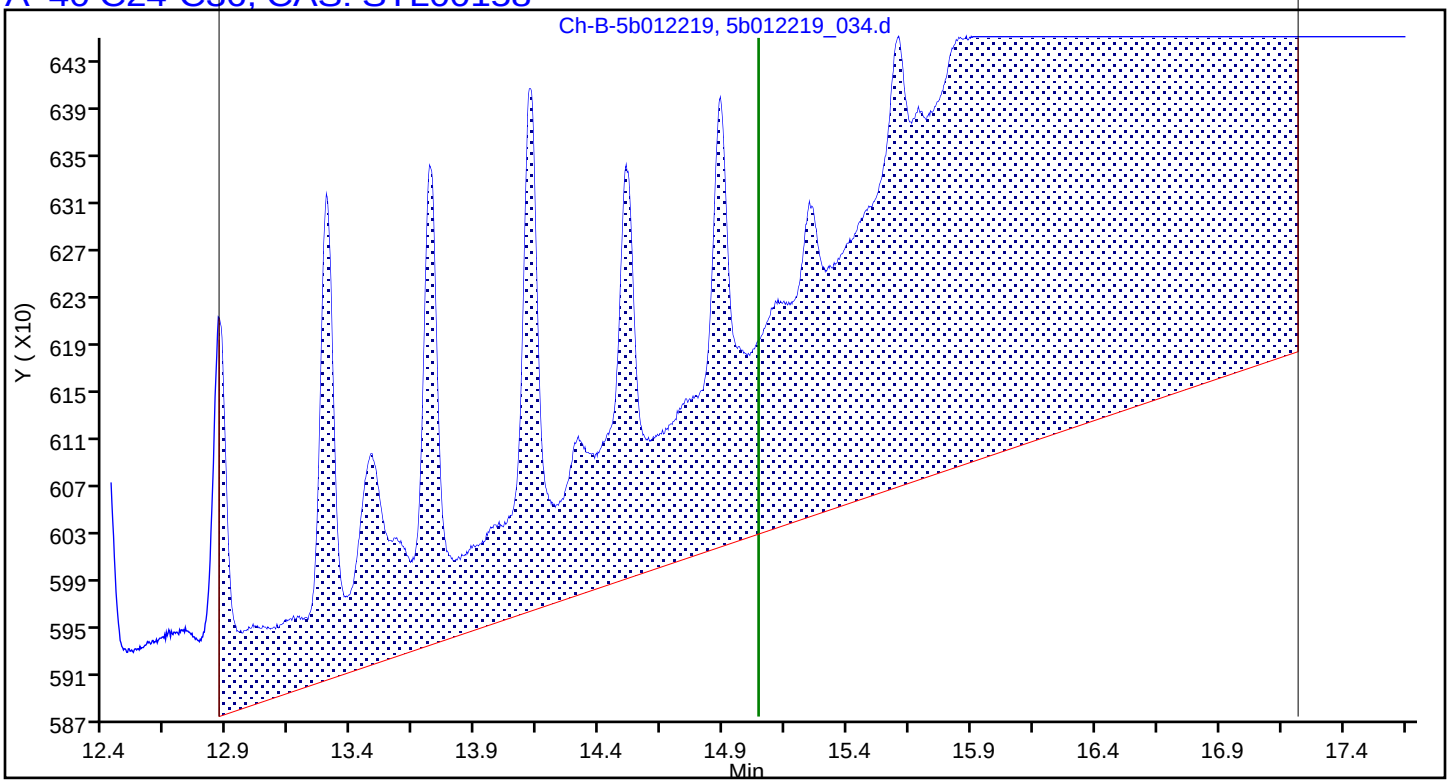


Report Date: 23-Jan-2019 16:31:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190122-56216.b\5b012219_034.d				
Injection Date:	23-Jan-2019 01:07:50	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-36-E	Lab Sample ID:	720-90698-36		
Client ID:	DG-O15S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_019.d
Lims ID: 720-90698-E-37-F
Client ID: DUP-105
Sample Type: Client
Inject. Date: 21-Jan-2019 21:36:46 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0056187-019
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\DRO5A.m
Limit Group: DRO
Last Update: 22-Jan-2019 11:50:12 Calib Date: 21-Jan-2019 09:29:11
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0329

First Level Reviewer: luj Date: 22-Jan-2019 11:50:12

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.468	2.544	-0.076	1207	NC	
23 n-Decane	3.819	3.793	0.026	1897	NC	
A 1 C9-C13	4.528	(2.544-6.512)		32306	NC	
A 21 Stoddard Solvent	4.528	(2.544-6.512)		32306	NC	
A 57 C10-C12	4.751	(3.793-5.708)		20159	2.06	
24 Dodecane	5.699	5.708	-0.009	2961	NC	
A 3 C9 - C17	5.892	(2.544-9.239)		73469	6.06	
A 47 C9 - C18	6.187	(2.544-9.830)		94894	8.82	
A 60 C10-C16	6.198	(3.793-8.602)		58196	5.28	
A 15 Kerosene	6.458	(2.544-10.372)		131905	12.2	
A 25 C9-C19	6.458	(2.544-10.372)		131905	10.8	
26 C13	6.487	6.512	-0.025	5855	NC	
A 59 C12-C16	7.155	(5.708-8.602)		40998	4.18	
$ 27 n-Decanoic Acid (Surr)		7.156			ND	U
A 62 C10-C20	7.351	(3.793-10.909)		155248	15.8	
A 28 C9-C24	7.693	(2.544-12.841)		284099	29.0	
A 29 C9-C25	7.911	(2.544-13.278)		321104	32.8	
A 54 C10-C23	8.090	(3.793-12.387)		248427	25.3	
A 4 C10-C24	8.317	(3.793-12.841)		278632	28.4	
A 16 C10-C25	8.536	(3.793-13.278)		315637	32.2	
45 Hexadecane	8.600	8.602	-0.002	5654	NC	
A 14 C10-C26	8.747	(3.793-13.700)		396419	40.4	
A 67 C12-C22	8.811	(5.708-11.914)		215408	22.0	
A 12 Unknown Hydrocarbons	9.146	(3.793-14.499)		541299	NC	
A 32 C10-C28	9.146	(3.793-14.499)		541299	55.2	
A 5 Diesel	9.146	(3.793-14.499)		541299	55.2	
A 30 C13-C22	9.213	(6.512-11.914)		211622	21.6	
44 Heptadecane	9.246	9.239	0.007	10394	NC	
A 31 C12-C24	9.274	(5.708-12.841)		261434	26.7	
49 n-Octadecane	9.848	9.830	0.018	13379	NC	
A 9 Crude Oil Range Organics (	9.888	(2.544-17.232)		2057355	NC	
A 52 Mineral oil	9.888	(2.544-17.232)		2057355	183.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.888	(2.544-17.232)		1602027	NC	
33 C19		10.372			ND	
A 64 C13-C28	10.506	(6.512-14.499)		520315	53.1	
A 17 C10-C36	10.513	(3.793-17.232)		1596560	162.9	
A 13 C9-C40	10.665	(2.544-18.786)		2637445	292.7	
A 68 Crude Oil Range Organics (	10.665	(2.544-18.786)		2637445	NC	
A 58 C16-C24	10.721	(8.602-12.841)		226090	23.1	
61 icosane	10.910	10.909	0.001	14927	NC	
A 6 C10-C40	11.290	(3.793-18.786)		2630675	292.3	
$ 34 p-Terphenyl	11.897	11.908	-0.011	308353	25.9	M
35 n-Docosane		11.914			ND	
A 18 C12-C40	12.247	(5.708-18.786)		2606581	289.8	
36 Tricosane	12.385	12.387	-0.002	15821	NC	
A 66 C13-C40	12.649	(6.512-18.786)		2596330	288.6	
37 n-Tetracosane	12.825	12.841	-0.016	30205	NC	
A 2 C16-C36 ORO	12.917	(8.602-17.232)		1960663	258.3	
38 C25	13.273	13.278	-0.005	25823	NC	
A 19 C16-C40	13.694	(8.602-18.786)		2540753	282.0	
46 n-Hexacosane	13.635	13.700	-0.065	80782	NC	
A 20 C19-C36	13.802	(10.372-17.232)		1514855	175.6	
A 55 C23-C32	14.167	(12.387-15.948)		934947	196.6	
39 n-Octacosane	14.482	14.499	-0.017	102802	NC	
65 C29	14.874	14.879	-0.005	107014	NC	
A 7 Motor Oil	15.036	(12.841-17.232)		1387022	227.7	
A 40 C24-C36	15.036	(12.841-17.232)		1387022	227.7	
A 50 C25-C36	15.255	(13.278-17.232)		1352080	233.7	
A 10 C22-C40	15.350	(11.914-18.786)		1697491	203.0	
A 41 C23-C40	15.586	(12.387-18.786)		1920588	234.2	
A 8 C24-C40	15.813	(12.841-18.786)		1891620	237.8	
56 Dotriacontane	15.984	15.948	0.036	162016	NC	
A 51 C28-C40	16.642	(14.499-18.786)		1661042	245.1	
A 63 C29-C40	16.832	(14.879-18.786)		1551829	250.6	
42 n-Hexatriacontane		17.232			ND	
43 C40		18.786			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

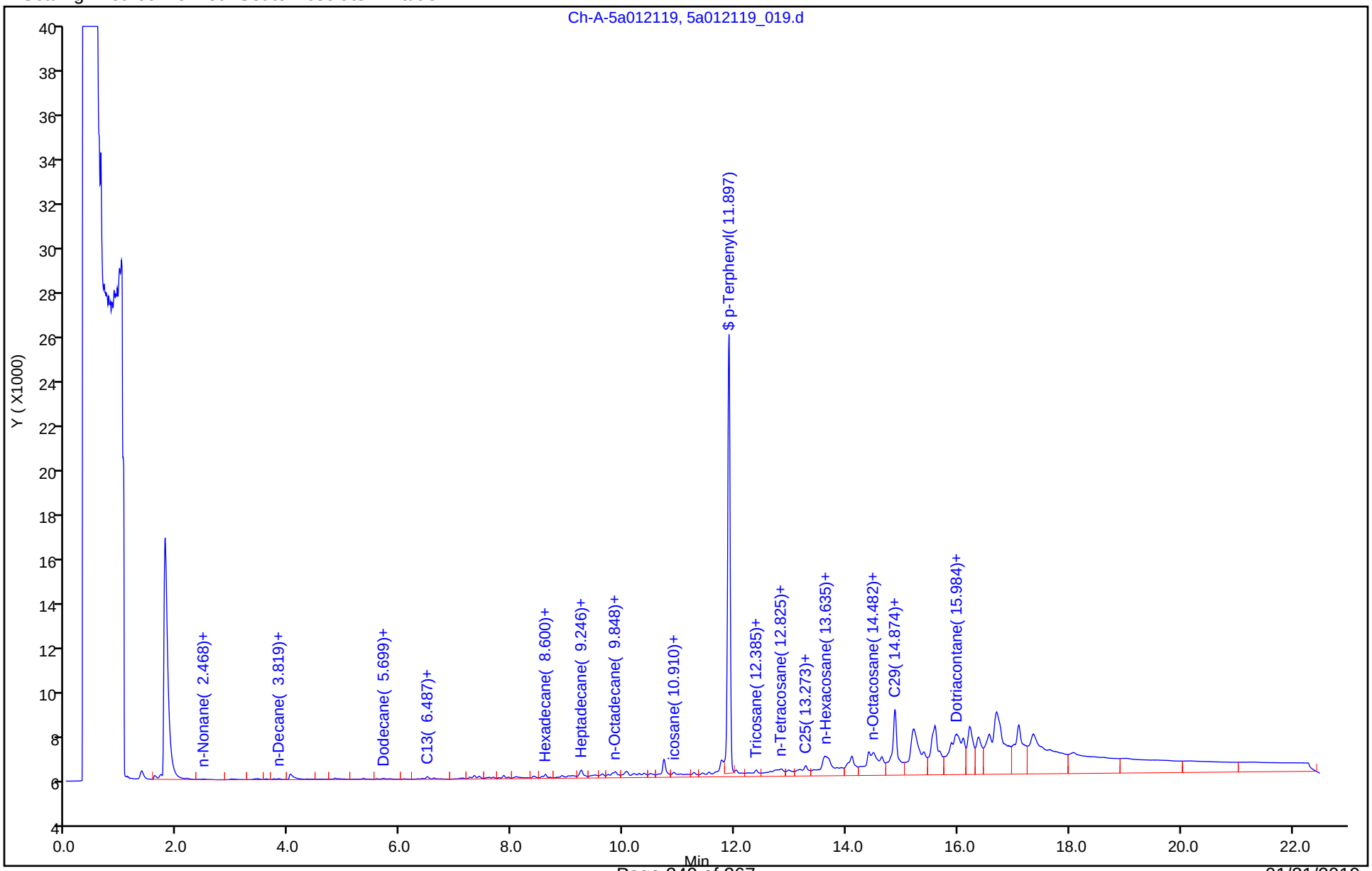
Report Date: 22-Jan-2019 11:50:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_019.d

Injection Date:	21-Jan-2019 21:36:46	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90698-E-37-F	Lab Sample ID:	720-90698-37	Worklist Smp#:	19
Client ID:	DUP-105				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_019.d				
Lims ID:	720-90698-E-37-F				
Client ID:	DUP-105				
Sample Type:	Client				
Inject. Date:	21-Jan-2019 21:36:46	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0056187-019				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	22-Jan-2019 11:50:12	Calib Date:	21-Jan-2019 09:29:11		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0329				

First Level Reviewer: luj Date: 22-Jan-2019 11:50:12

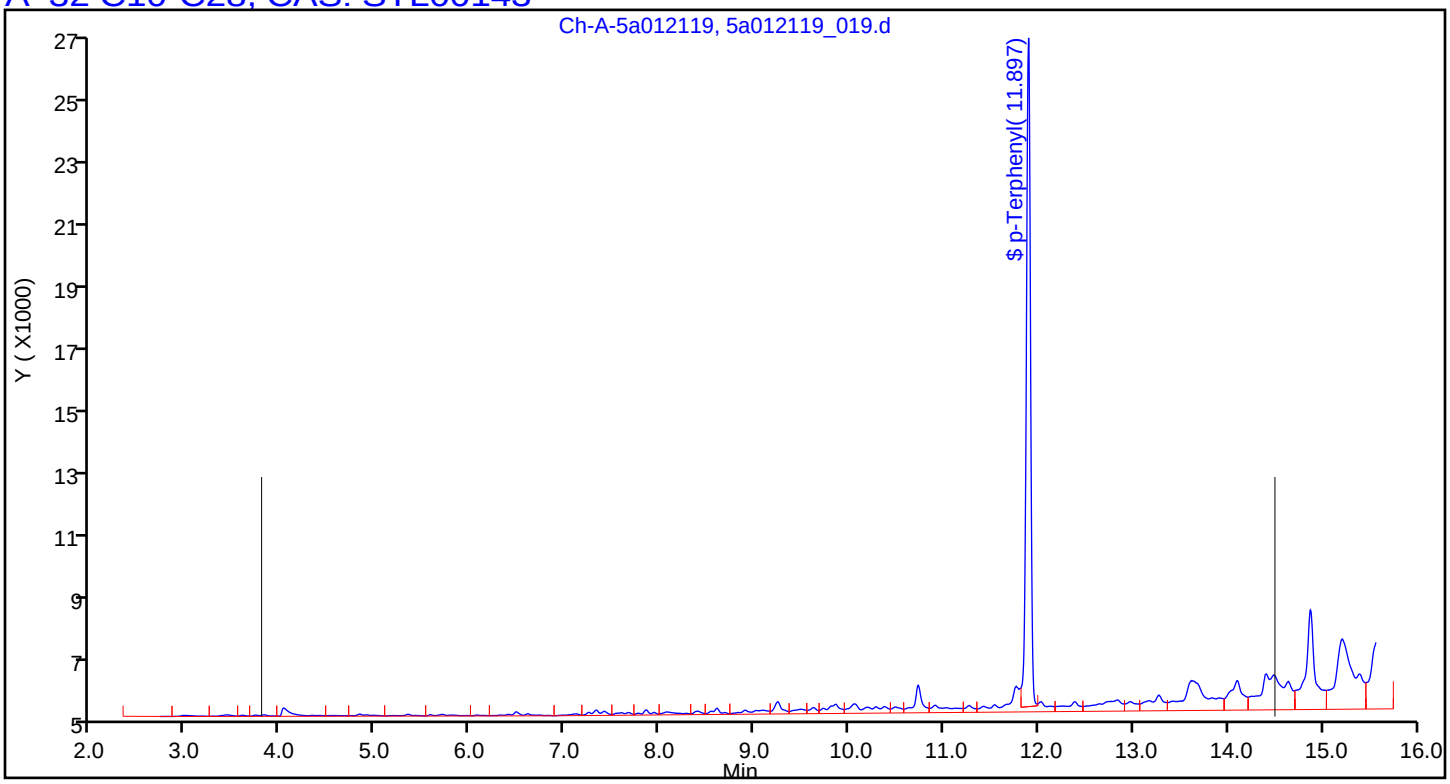
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.9	103.43

Report Date: 22-Jan-2019 11:50:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_019.d				
Injection Date:	21-Jan-2019 21:36:46	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-37-F	Lab Sample ID:	720-90698-37		
Client ID:	DUP-105				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

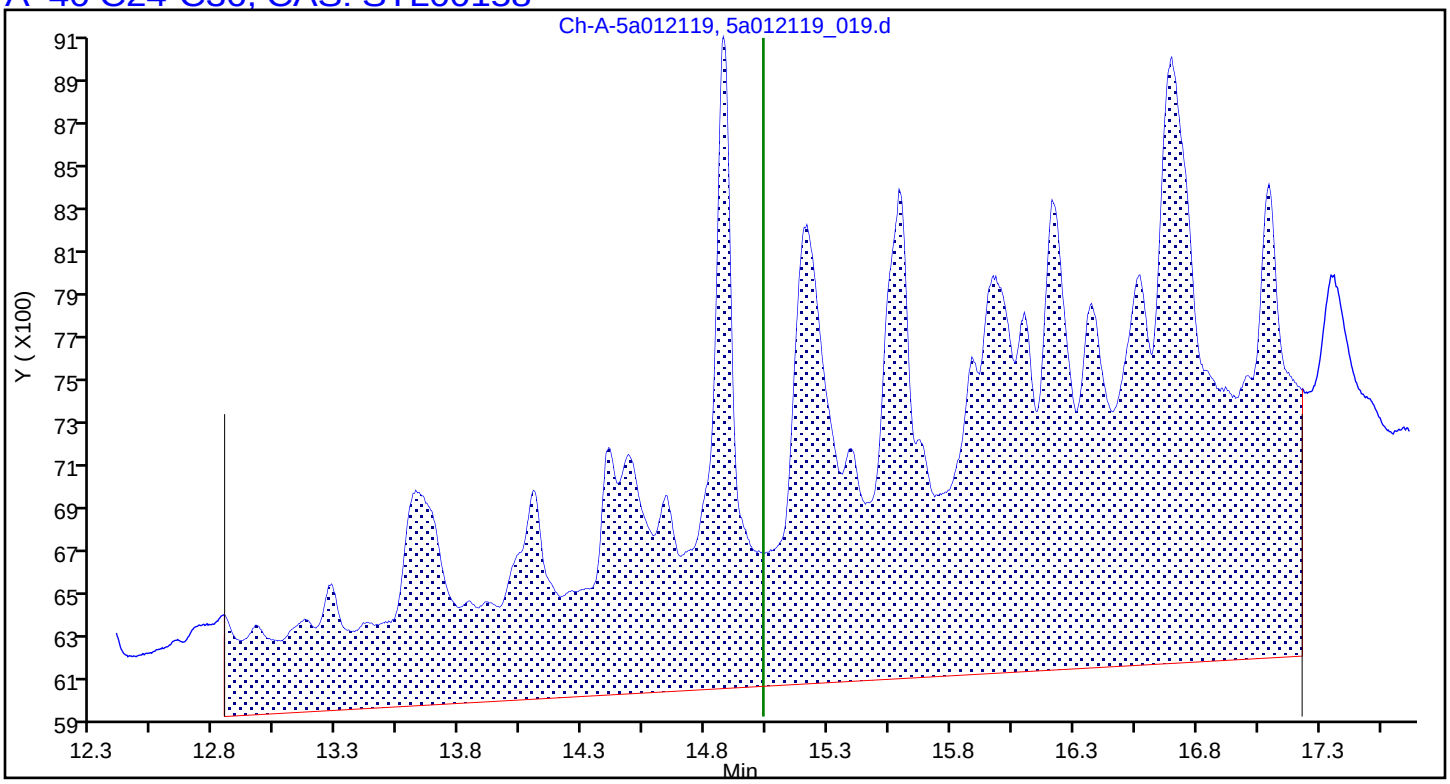


Report Date: 22-Jan-2019 11:50:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190121-56187.b\5a012119_019.d				
Injection Date:	21-Jan-2019 21:36:46	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-37-F	Lab Sample ID:	720-90698-37		
Client ID:	DUP-105				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

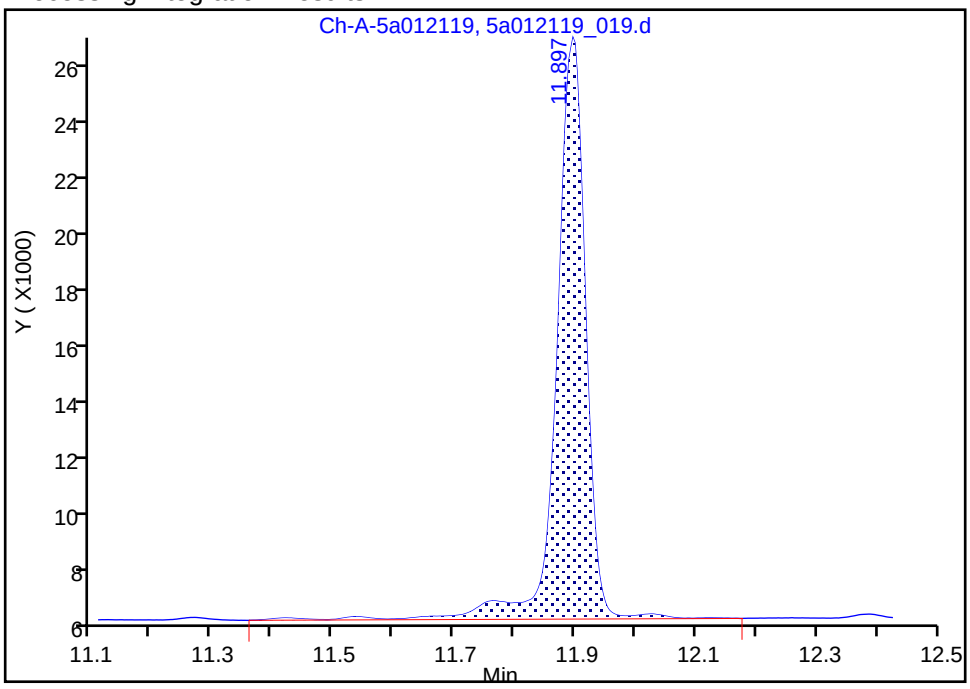
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Injection Date:	21-Jan-2019 21:36:46	Instrument ID:	CHDRO5		
Lims ID:	720-90698-E-37-F	Lab Sample ID:	720-90698-37		
Client ID:	DUP-105				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

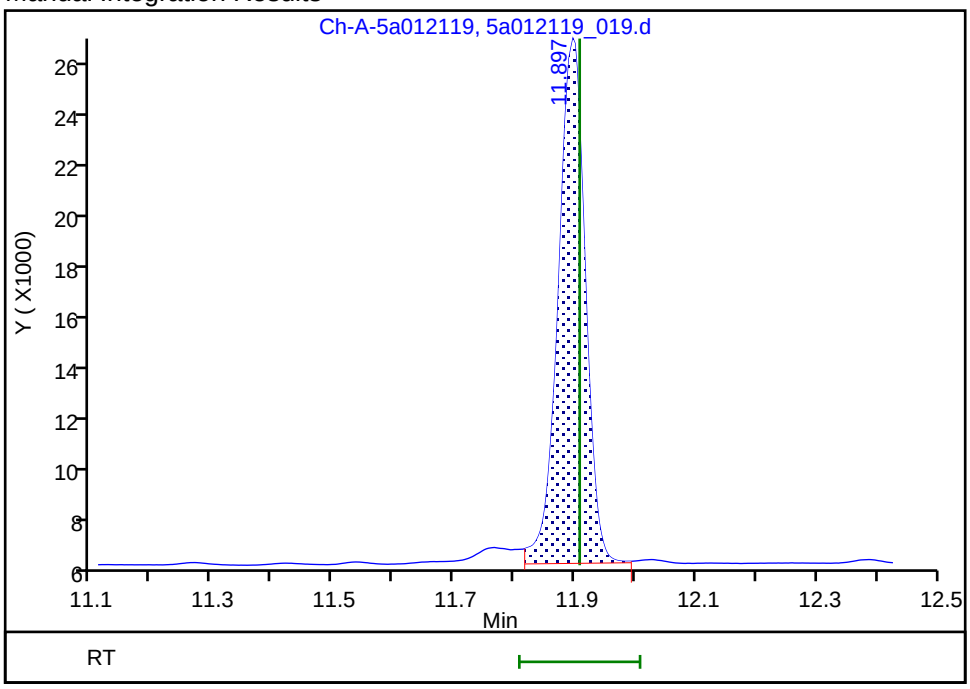
Processing Integration Results

RT: 11.90
Area: 334101
Amount: 28.017058
Amount Units: mg/L



Manual Integration Results

RT: 11.90
Area: 308353
Amount: 25.857881
Amount Units: mg/L



Reviewer: luj, 22-Jan-2019 11:50:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Project Name Brisbane OU2 Investigation				
Site Brisbane OU2				
P O # WG2619/ TA project # 72013947				

720-90698 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-X9S-0.5-1	1-10-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2	DG-X9S-3.5-4	↓	0732	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	
3	~~FB-1-10-19~~					2			X							MK
4	DG-V9S-0.5-1		0810			7										
5	DG-V9S-3.5-4		0812			10	Y									
6	DG-V9S-7.5-8		0815			7										
7	DG-T9S-0.5-1		0900			1										
8	DG-T9S-3.5-4		0902			1			↓	↓	↓	↓	↓	↓	↓	
9	DG-P9S-0.5-1		0915			4			X							
10	DG-P9S-3.5-4		0917			4			X							
11	DG-N9S-0.5-1		0930			7				↓	↓	↓	↓	↓	↓	
	DG-N9S-3.5-4	↓	0932	↓	↓	7			↓							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

4.5°C, 0.5°C 0.4°C, 1.6°C, 0.2°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd. ____ Therm ID No.: ____			
Relinquished by	Company GeoSyntec	Date/Time 1-10-19 16:03	Received by	Company TA PLS	Date/Time 1-10-19 16:03
Relinquished by	Company TA PLS	Date/Time 1-10-19 18:15	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-90698

Chain of Custody Record

TestAmerica

#187755

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
12	DG-O11S-0.5-1	1-10-19	1000	G	S	7	N		X	X	X	X	X	X	X	
13	DG-O11S-3.5-4		1002													
14	DG-Q11S-0.5-1		1025													
15	DG-Q11S-3.5-4		1027													
16	DUP-74		—													
17	DG-S11S-0.5-1		1050													
18	DG-S11S-3.5-4		1052													
19	DG-U11S-0.5-1		1120													
20	DG-U11S-3.5-4		1122													
21	DG-V13S-0.5-1		1250													
22	DG-V13S-3.5-4		1252													
23	DG-V13S-7.5-8		1255							J						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____		Therm ID No. ____
Relinquished by	Company: GEOSYNTEC	Date/Time: 1-10-19 1600	Received by	Company: TA PLS	Date/Time: 1-10-19 16:07
Relinquished by	Company: TA PLS	Date/Time: 1-10-19 1855	Received by	Company	Date/Time.
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
24	DG-T13S 0.5-1	1-10-19	1325	G	S	7	N		X	X	X	X	X	X	X	
25	DG T13S 3.5-4		1327			10		Y								
26	Dup-91		—			7										
27	DG-P13S 0.5-1		1355													
28	DG-P13S 3.5-4		1357													
29	Dup-90		—													
30	DG-N13S 0.5-1		1415													
31	DG-N 13S 3.5-4		1417			10		Y								
32	DG-N 13S 7.5-8		1420			7										
33	Dup-89		—			7										
34	DG-O15S 0.5-1		1500			10		Y								
35	DG-O15S 3.5-4		1502			7										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by	Company Geosyntec	Date/Time 1-10-19 1603	Received by:	Company TA PLS	Date/Time 1-10-19 16:03
Relinquished by	Company TA PLS	Date/Time 1-10-19 18:55	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/21/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
36	DG-0155 7.5-8	1-10-19	1505	G	S	7	N		X	X	X	X	X	X	X	
37	DP-105	↓	—	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	

Page 257 of 267

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No. | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Geosyntec	1-10-19 1603		TA PLS	1-10-19 16:03
Relinquished by	TA PLS	1-10-19 8:55	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

GEOSYNTEC
(THVR.) TERRA CORES
720-90698


720-90698-02 Chain of Custody

Ref:	Date: 10Jan19	SHIPPING:	0.00
Dep:	Wgt: 40.00 LBS	SPECIAL:	0.00
		HANDLING:	0.00
	DV: 100.00	TOTAL:	0.00

Svcs: PRIORITY OVERNIGHT

TRCK: 4786 4574 1098

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC04

FedEx Express Package(s) - Dropped Off
478645741098

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 10, 2019 4:54:55 PM

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

#167255

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkshrinas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90698 Chain of Custody

1/10/19

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1	DG-X9S-0.5-1	1-10-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2	DG-X9S-3.5-4		0732													
3	FB-1-10-19					2			X							MK
4	DG-V9S-0.5-1		0810			7										
5	DG-V9S-3.5-4		0812			10		Y								
6	DG-V9S-7.5-8		0815			7										
7	DG-T9S-0.5-1		0900													
8	DG-T9S-3.5-4		0902													
9	DG-P9S-0.5-1		0915			4			X							
10	DG-P9S-3.5-4		0917			4			X							
11	DG-N9S-0.5-1		0930			7										
	DG-N9S-3.5-4		0932			7										

Encores or Terracores Frozen Date: 1/11/19 Time: 10:40 Initials: SS

720-90698 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

4.5°C, 0.5°C, 0.4°C, 1.6°C, 0.2°C

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ | Therm ID No.: ____

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	Geosyntec	1-10-19 1605	Received by:	TA PLS	1-10-19 16:03
Relinquished by:	TA PLS	1-10-19 1863	Received by:		
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2813.0 IR94

TA-IRV 1/11/19 9:30am

CS/ tracking # 478645741098

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No..
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
12	DG-Q11S-0.5-1	1-10-19	1000	G	S	7	N		X	X	X	X	X	X	X	
13	DG-Q11S-3.5-4		1002													
14	DG-Q11S-0.5-1		1025													
15	DG-Q11S-3.5-4		1027													
16	DUP-74		—													
17	DG-S11S-0.5-1		1050													
18	DG-S11S-3.5-4		1052													
19	DG-U11S-0.5-1		1120													
20	DG-U11S-3.5-4		1122													
21	DG-V13S-0.5-1		1250													
22	DG-V13S-3.5-4		1252													
23	DG-V13S-7.5-8		1255							J						

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other:

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: GeoSyntec	Date/Time: 1-10-19 1600	Received by:	Company: TA PLS	Date/Time: 1-10-19 16:07
Relinquished by:	Company: TA PLS	Date/Time: 1-10-19 18:55	Received by:	Company:	Date/Time:
Relinquished by.	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

28/3.0 IR94

TA-IRV 1/11/19 9.30

CS| tracking# 4786 4574 1098

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#16785
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☑ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
24	DG-T13S 0.5-1	1-10-19	1325	G	S	7	N		X	X	X	X	X	X	X	
25	DG T13S 3.5-4		1327			10		Y								
26	DUP-91		—			7										
27	DG-P13S 0.5-1		1355													
28	DG-P13S 3.5-4		1357													
29	DUP-90		—													
30	DG-N13S 0.5-1		1415													
31	DG-N13S 3.5-4		1417			10		Y								
32	DG-N13S 7.5-8		1420			7										
33	DUP-89		—			7										
34	DG-O15S 0.5-1		1500			10		Y								
35	DG-O15S 3.5-4		1502			7										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: GEOSYNTEC	Date/Time: 1-10-19 1603	Received by:	Company: TA PLS	Date/Time: 1-10-19 16:03
Relinquished by:	Company: TA PLS	Date/Time: 1-10-19 16:50	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2.8|3.0 IK94

TA-IRV 1/11/19 9:30

CS|tracking # 4786 4574 1098

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90698

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#187755
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-10-19	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	4 of 4 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahnles@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
3L DG-0155 7.5-8	1-10-19	1505	G	S	7	N		X	X	X	X	X	X	X	
3T DP-105	↓	—	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: GSC	Date/Time: 1-10-19 1603	Received by:	Company: TA PLS	Date/Time: 1-10-19 1603
Relinquished by:	Company: TA PLS	Date/Time: 1-10-19 1855	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

2.8|3.0 IR94

TA-IRV 1/11/19 9:30

CS|tracking# 4786 4574 1098

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4575 1282	COC No: 720-40773.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_PW-8260-(MOD)_VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-X9S-0.5-1 (720-90698-1)	1/10/19	07:30 Pacific		Solid			X	X	X	5	
DG-X9S-3.5-4 (720-90698-2)	1/10/19	07:32 Pacific		Solid			X	X	X	5	
DG-V9S-0.5-1 (720-90698-3)	1/10/19	08:10 Pacific		Solid			X	X	X	5	
DG-V9S-3.5-4 (720-90698-4)	1/10/19	08:12 Pacific		Solid			X	X	X	5	
DG-V9S-3.5-4 (720-90698-4MS)	1/10/19	08:12 Pacific	MS	Solid			X	X	X	5	
DG-V9S-3.5-4 (720-90698-4MSD)	1/10/19	08:12 Pacific	MSD	Solid			X	X	X	5	
DG-V9S-7.5-8 (720-90698-5)	1/10/19	08:15 Pacific		Solid			X	X	X	5	
DG-T9S-0.5-1 (720-90698-6)	1/10/19	09:00 Pacific		Solid			X	X	X	5	
DG-T9S-3.5-4 (720-90698-7)	1/10/19	09:02 Pacific		Solid			X	X	X	5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		1/11/19 1331	TAPS			
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by:	Date/Time	Company	Received by: Olga Cimeles	1/12/19 1120	TAIRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3/2.8 IR-93

Ver: 09/20/2016

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04/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4575 1282	COC No: 720-40773 2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260-(MOD) VOCs + OXO	8260B/CA_LUFT MS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-P9S-0.5-1 (720-90698-8)	1/10/19	09:15 Pacific		Solid			X	X		4	
DG-P9S-3.5-4 (720-90698-9)	1/10/19	09:17 Pacific		Solid			X	X		4	
DG-N9S-0.5-1 (720-90698-10)	1/10/19	09:30 Pacific		Solid			X	X	X	6	
DG-N9S-3.5-4 (720-90698-11)	1/10/19	09:32 Pacific		Solid			X	X	X	6	
DG-O11S-0.5-1 (720-90698-12)	1/10/19	10.00 Pacific		Solid			X	X	X	6	
DG-O11S-3.5-4 (720-90698-13)	1/10/19	10:02 Pacific		Solid			X	X	X	6	
DG-Q11S-0.5-1 (720-90698-14)	1/10/19	10.25 Pacific		Solid			X	X	X	6	
DG-Q11S-3 5-4 (720-90698-15)	1/10/19	10:27 Pacific		Solid			X	X	X	6	
DUP-74 (720-90698-16)	1/10/19	Pacific		Solid			X	X	X	6	

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:		
Relinquished by	Date/Time: 1/11/19 1331	Company TAPLS	Received by	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by Olga Mendez	Date/Time 1/12/19 1120	Company TAPLS

Custody Seals Intact. ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

01/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645751286	COC No: 720-40773.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LUFS035A_F_FW 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-S11S-0.5-1 (720-90698-17)	1/10/19	10:50 Pacific		Solid			X	X	X	5	
DG-S11S-3 5-4 (720-90698-18)	1/10/19	10:52 Pacific		Solid			X	X	X	5	
DG-U11S-0.5-1 (720-90698-19)	1/10/19	11:20 Pacific		Solid			X	X	X	5	
DG-U11S-3 5-4 (720-90698-20)	1/10/19	11:22 Pacific		Solid			X	X	X	5	
DG-V13S-0 5-1 (720-90698-21)	1/10/19	12:50 Pacific		Solid			X	X	X	5	
DG-V13S-3.5-4 (720-90698-22)	1/10/19	12.52 Pacific		Solid			X	X	X	5	
DG-V13S-7.5-8 (720-90698-23)	1/10/19	12:55 Pacific		Solid			X	X	X	5	
DG-T13S-0.5-1 (720-90698-24)	1/10/19	13:25 Pacific		Solid			X	X	X	5	
DG-T13S-3.5-4 (720-90698-25)	1/10/19	13:27 Pacific		Solid			X	X	X	4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by	Date/Time: 1/11/19 1331	Company: TAL	Received by	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by	Date/Time	Company	Received by	Date/Time: 1/12/19 11:20	Company: TAL	
Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40773.4
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL_5035A_F_FW+8260-(MOD)-VOCs+-GRO	8260B/CA_LUFTMS/5035A_F_FW 8260-C4-C12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-T13S-3.5-4 (720-90698-25MS)	1/10/19	13:27 Pacific	MS	Solid			X	X	X	3	
DG-T13S-3.5-4 (720-90698-25MSD)	1/10/19	13:27 Pacific	MSD	Solid			X	X	X	3	
DUP-91 (720-90698-26)	1/10/19	Pacific		Solid			X	X	X	5	
DG-P13S-0.5-1 (720-90698-27)	1/10/19	13:55 Pacific		Solid			X	X	X	5	
DG-P13S-3.5-4 (720-90698-28)	1/10/19	13:57 Pacific		Solid			X	X	X	5	
DUP-90 (720-90698-29)	1/10/19	Pacific		Solid			X	X	X	5	
DG-N13S-0.5-1 (720-90698-30)	1/10/19	14:15 Pacific		Solid			X	X	X	5	
DG-N13S-3.5-4 (720-90698-31)	1/10/19	14:17 Pacific		Solid			X	X	X	4	
DG-N13S-3 5-4 (720-90698-31MS)	1/10/19	14 17 Pacific	MS	Solid			X	X	X	3	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment		
Relinquished by:	Date/Time: 1/11/19 1331	Company: TAOPS	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by: Olga Cinelas	Date/Time: 1/12/19 1120	Company: TAIRU

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks

Ver. 09/20/2016

01/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40773.5
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 5 of 5
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90698-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5035A_F_FW 8260(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW 8260/CA_12 Volatile Fuel Hydrocarbons	8082/3546 Standard 8082 PCB list	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DG-N13S-3.5-4 (720-90698-31MSD)	1/10/19	14:17 Pacific	MSD	Solid			X	X	X	1	
DG-N13S-7.5-8 (720-90698-32)	1/10/19	14:20 Pacific		Solid			X	X	X	1	
DUP-89 (720-90698-33)	1/10/19	Pacific		Solid			X	X	X	1	
DG-O15S-0.5-1 (720-90698-34)	1/10/19	15:00 Pacific		Solid			X	X	X	1	
DG-O15S-0.5-1 (720-90698-34MS)	1/10/19	15:00 Pacific	MS	Solid			X	X	X	1	
DG-O15S-0.5-1 (720-90698-34MSD)	1/10/19	15:00 Pacific	MSD	Solid			X	X	X	1	
DG-O15S-3.5-4 (720-90698-35)	1/10/19	15:02 Pacific		Solid			X	X	X	1	
DG-O15S-7.5-8 (720-90698-36)	1/10/19	15:05 Pacific		Solid			X	X	X	1	
DUP-105 (720-90698-37)	1/10/19	Pacific		Solid			X	X	X	1	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/11/19 1331	Company: TAB	Received by:	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by: Olga Omelos	Date/Time: 1/12/19 1120	Company: TAL NV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

01/31/2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90699-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/29/2019 9:20 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/29/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Method 8015B - DRO Sample Data 4

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Client Chain of Custody 39

Job Narrative
720-90699-1

Comments
See client email for analysis on sample DUP-44.

Receipt
The samples were received on 1/10/2019 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.2º C, 0.4º C, 0.5º C, 1.6º C and 4.5º C.

Receipt Exceptions

Sample ID: DUP-44: Received extra containers for 8270, CAM-17-7199 and 8015. Logged additional containers for those tests on hold.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: Insufficient 8015-DRO sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-522336 and analytical batch 440-522567. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 3005A and 7470A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: DG-N5W (720-90699-2). The sample(s) was preserved to the appropriate pH in the laboratory. Added 1 ml of HNO3 at 11:21 1/11/19. ref: 258362

Method 6010B: The method blank for preparation batch 720-258443 and analytical batch 720-258610 contained Arsenic and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258610 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a “^” symbol.

Method 6010B: The method blank for preparation batch 720-258527 and analytical batch 720-258635 contained Barium and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258635 was outside control limits Barium-25%: (720-90699-B-9-D SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-522336. LCS was performed in duplicate to provide precision of data. 80105B_DRO

Method3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-522263 and 440-522263. 8270C-SIM-PAH. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a009.d				
Lims ID:	720-90699-G-1-A				
Client ID:	DG-P5W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 15:38:40	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 16:35:22	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: barnettl		Date:	15-Jan-2019 16:35:22		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.629	(2.018-7.240)		355761	98.2	
$ 127 n-Octacosane	7.065	7.070	-0.005	512401	139.3	
A 135 C24-C36	7.478	(5.810-9.145)		267686	73.9	

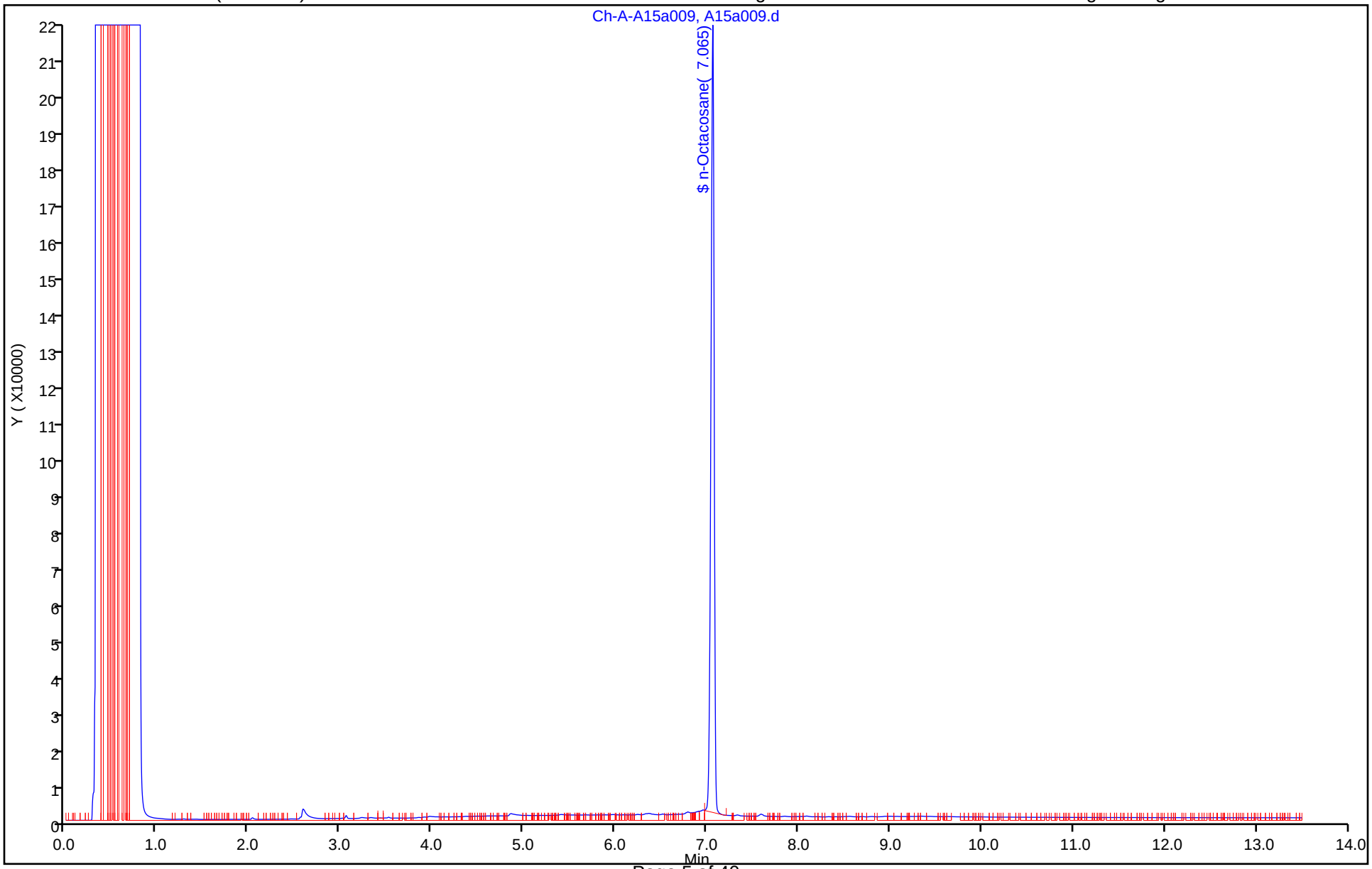
Report Date: 15-Jan-2019 16:35:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a009.d

Injection Date:	15-Jan-2019 15:38:40	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90699-G-1-A	Lab Sample ID:	440-90699-1	Worklist Smp#:	9
Client ID:	DG-P5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a009.d
Lims ID: 720-90699-G-1-A
Client ID: DG-P5W
Sample Type: Client
Inject. Date: 15-Jan-2019 15:38:40 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 15-Jan-2019 16:35:22 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0317

First Level Reviewer: barnettl Date: 15-Jan-2019 16:35:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	139.3	69.64
$ 178 n-Triacontane-d62	0.0	0	0.00

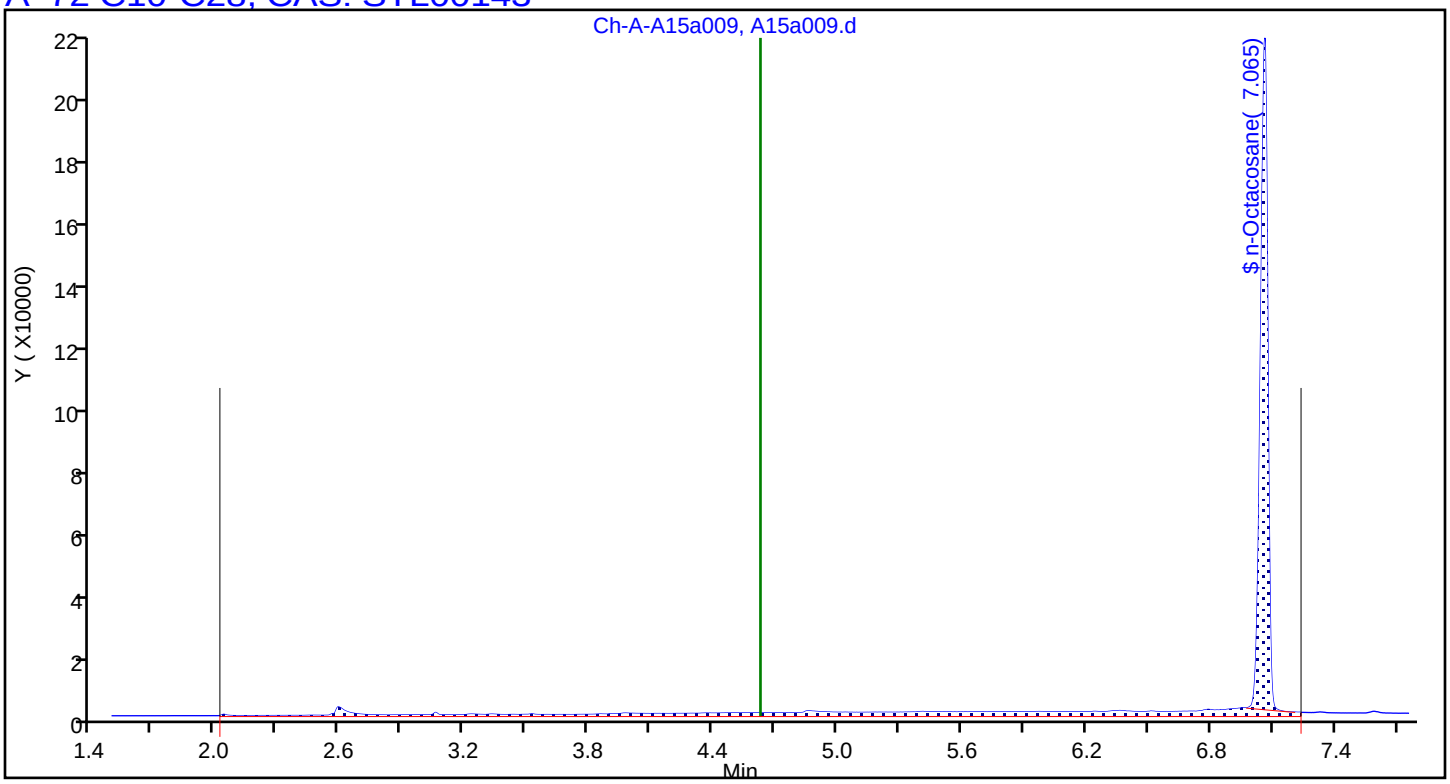
Report Date: 15-Jan-2019 16:35:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a009.d

Injection Date:	15-Jan-2019 15:38:40	Instrument ID:	GC70A		
Lims ID:	720-90699-G-1-A	Lab Sample ID:	440-90699-1		
Client ID:	DG-P5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



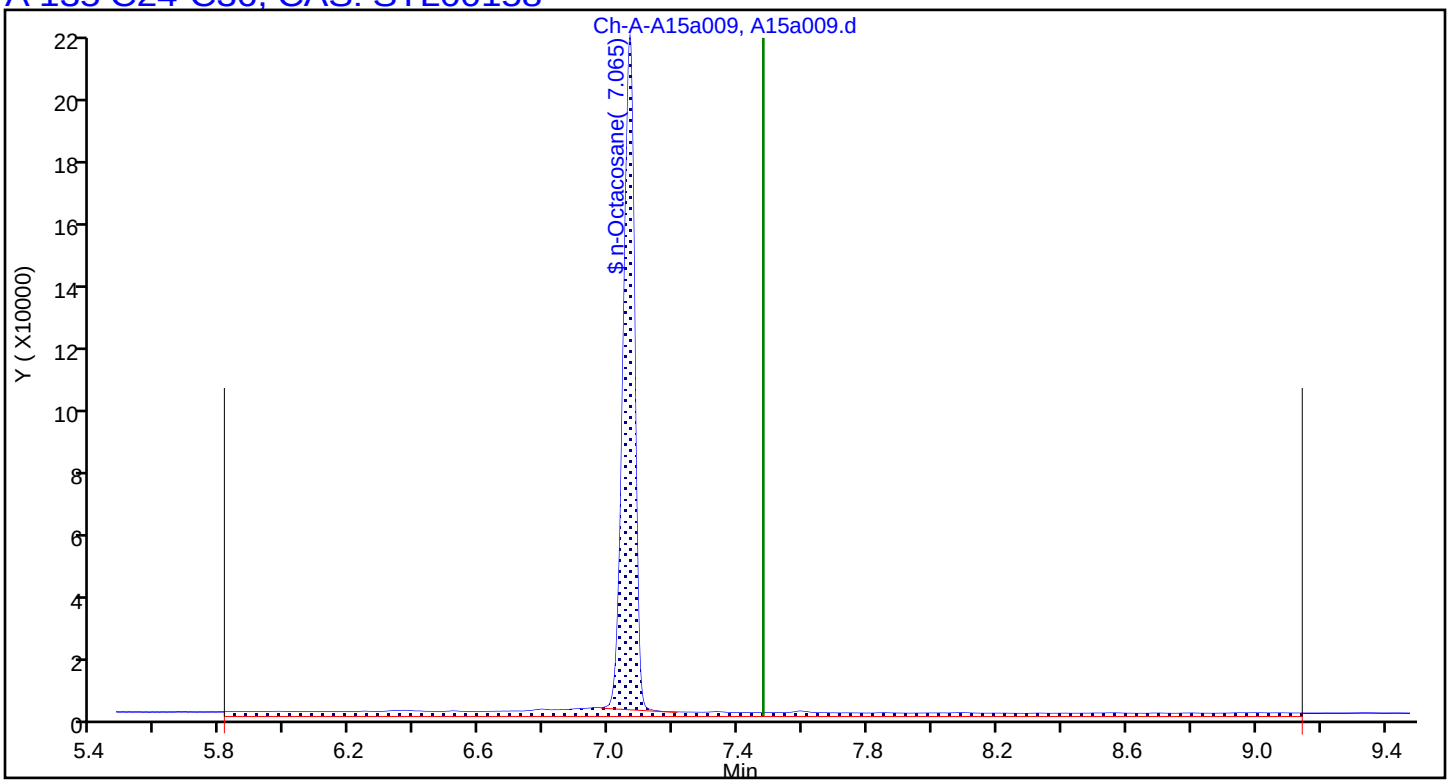
Report Date: 15-Jan-2019 16:35:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a009.d

Injection Date:	15-Jan-2019 15:38:40	Instrument ID:	GC70A		
Lims ID:	720-90699-G-1-A	Lab Sample ID:	440-90699-1		
Client ID:	DG-P5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a010.d				
Lims ID:	720-90699-H-2-A				
Client ID:	DG-N5W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 15:59:59	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 16:35:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: barnettl		Date:	15-Jan-2019 16:35:43		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.629	(2.018-7.240)		517068	142.8	
$ 127 n-Octacosane	7.065	7.070	-0.005	440909	119.8	
A 135 C24-C36	7.478	(5.810-9.145)		511717	141.3	

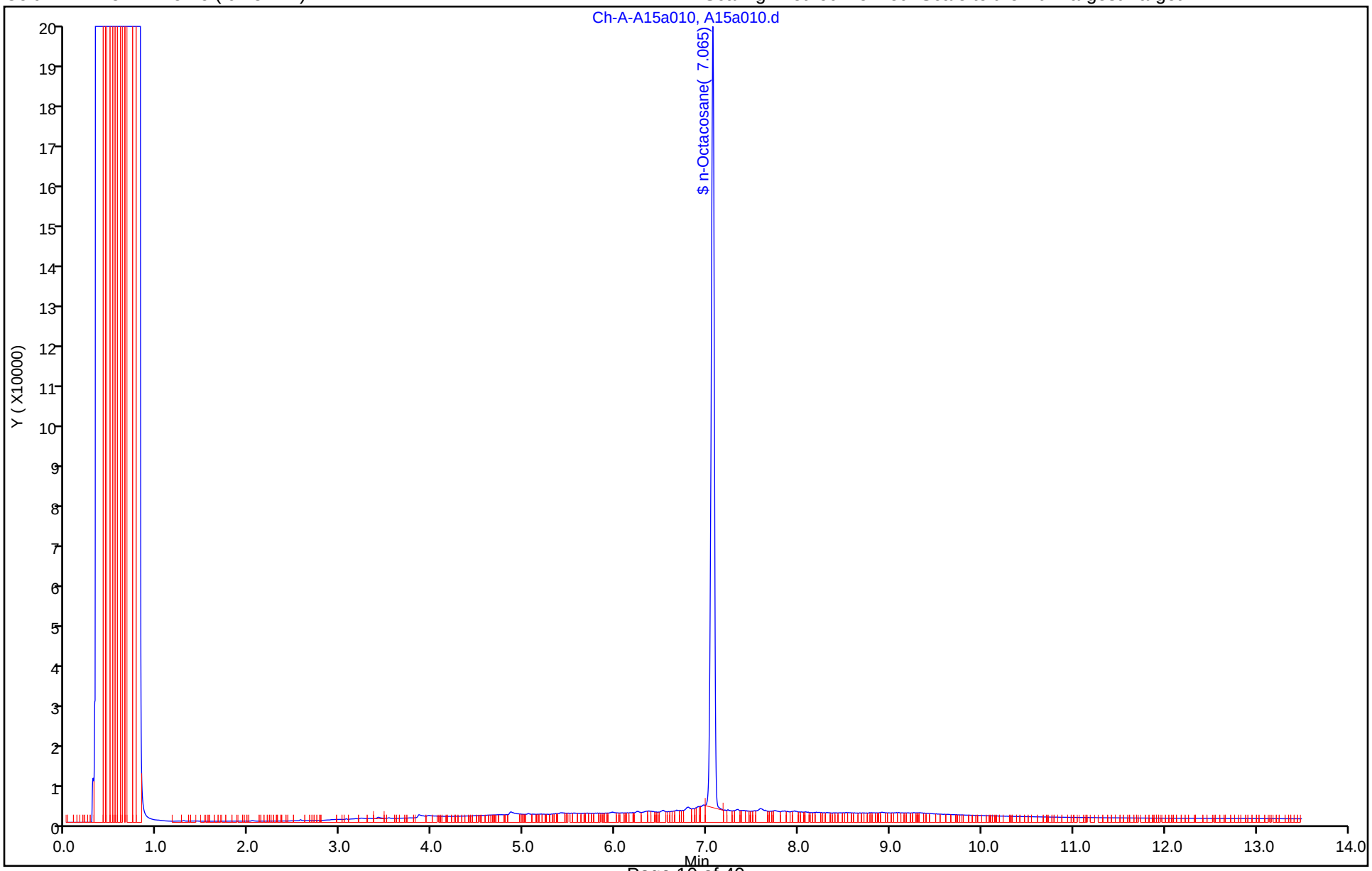
Report Date: 15-Jan-2019 16:35:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a010.d

Injection Date:	15-Jan-2019 15:59:59	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90699-H-2-A	Lab Sample ID:	440-90699-2	Worklist Smp#:	10
Client ID:	DG-N5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a010.d				
Lims ID:	720-90699-H-2-A				
Client ID:	DG-N5W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 15:59:59	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 16:35:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: barnettl Date: 15-Jan-2019 16:35:43

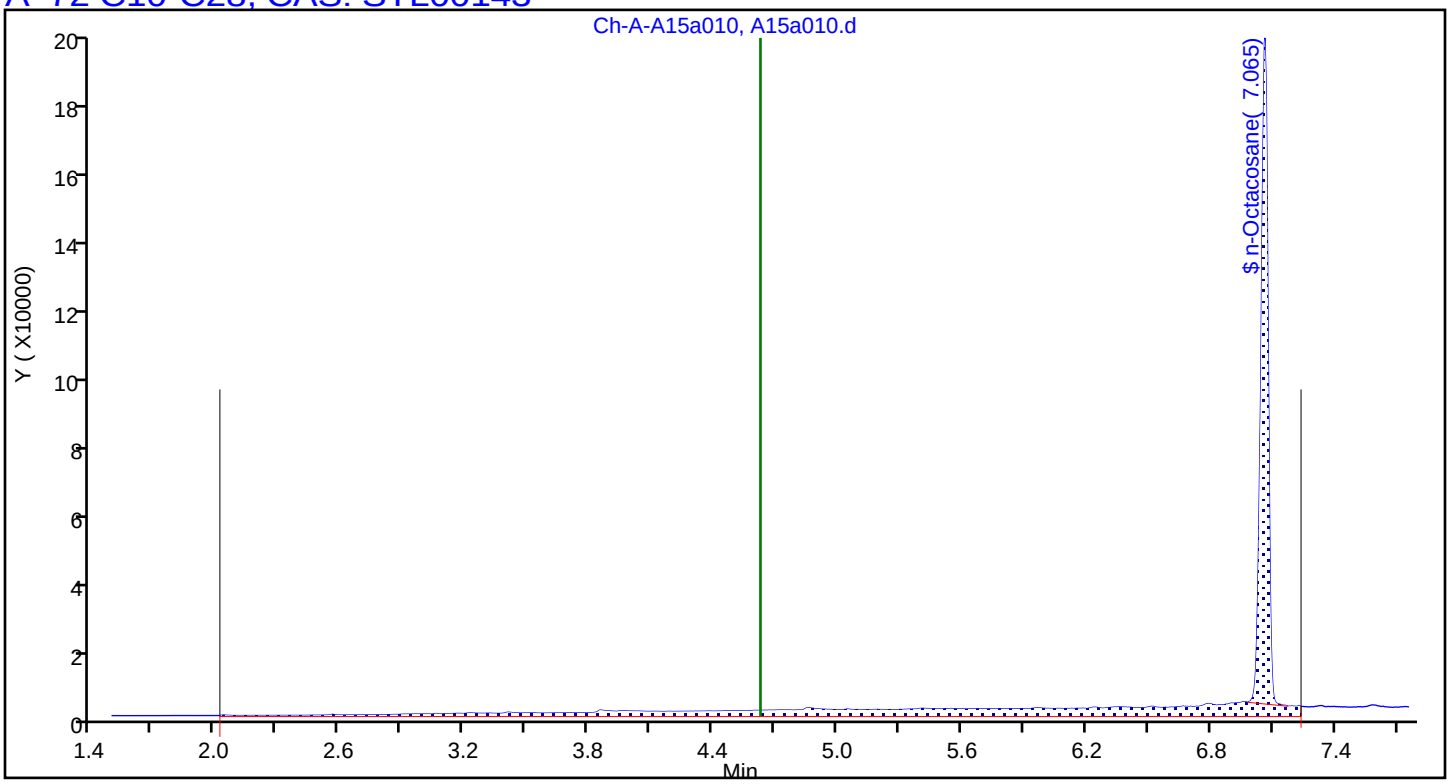
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	119.8	59.92
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 15-Jan-2019 16:35:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a010.d				
Injection Date:	15-Jan-2019 15:59:59	Instrument ID:	GC70A		
Lims ID:	720-90699-H-2-A	Lab Sample ID:	440-90699-2		
Client ID:	DG-N5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

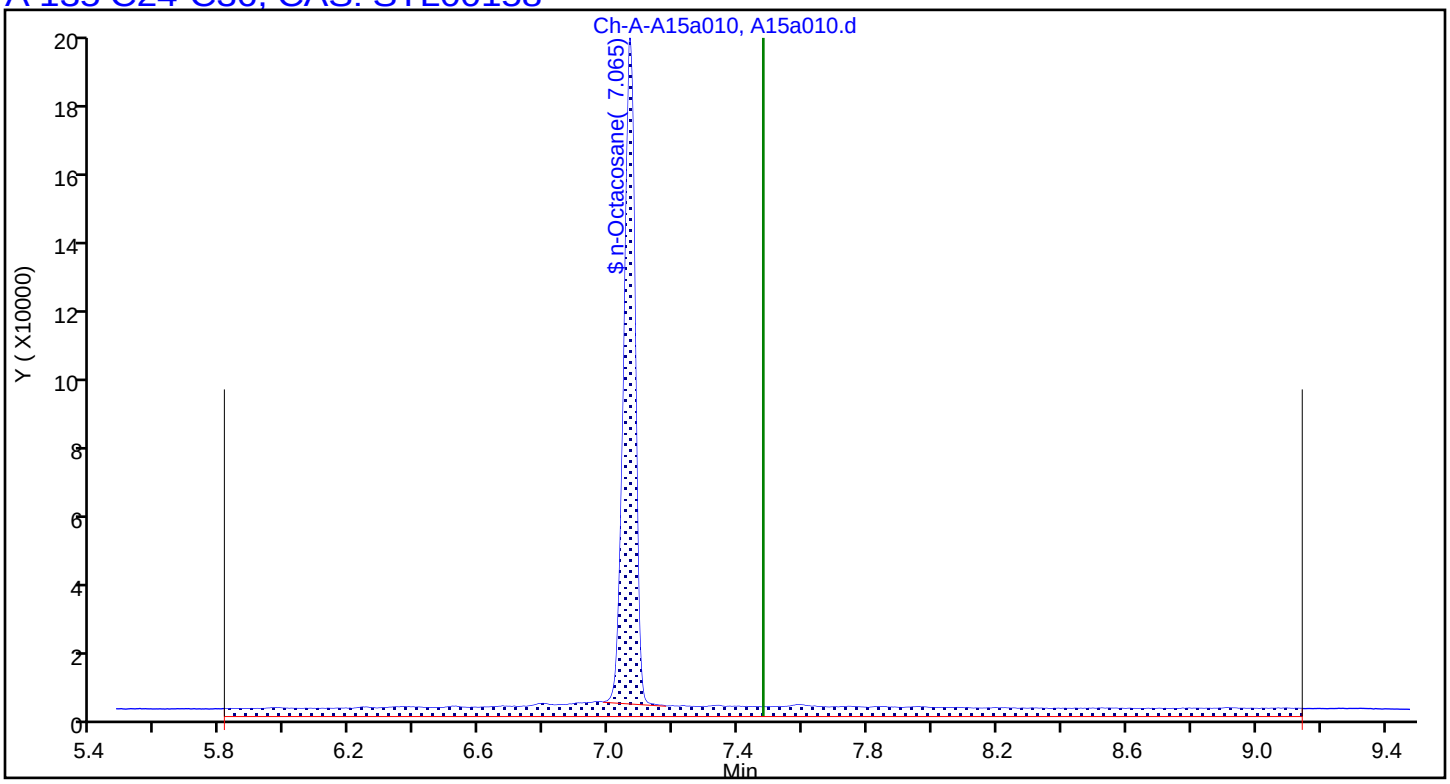


Report Date: 15-Jan-2019 16:35:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a010.d				
Injection Date:	15-Jan-2019 15:59:59	Instrument ID:	GC70A		
Lims ID:	720-90699-H-2-A	Lab Sample ID:	440-90699-2		
Client ID:	DG-N5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a011.d				
Lims ID:	720-90699-G-3-A				
Client ID:	DG-O7W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 16:21:28	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 17:09:25	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: barnettl		Date:	15-Jan-2019 17:09:25		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.629	(2.018-7.240)		3987938	1101.0	
$ 127 n-Octacosane	7.072	7.070	0.002	460428	125.2	
A 135 C24-C36	7.478	(5.810-9.145)		3777774	1043.0	

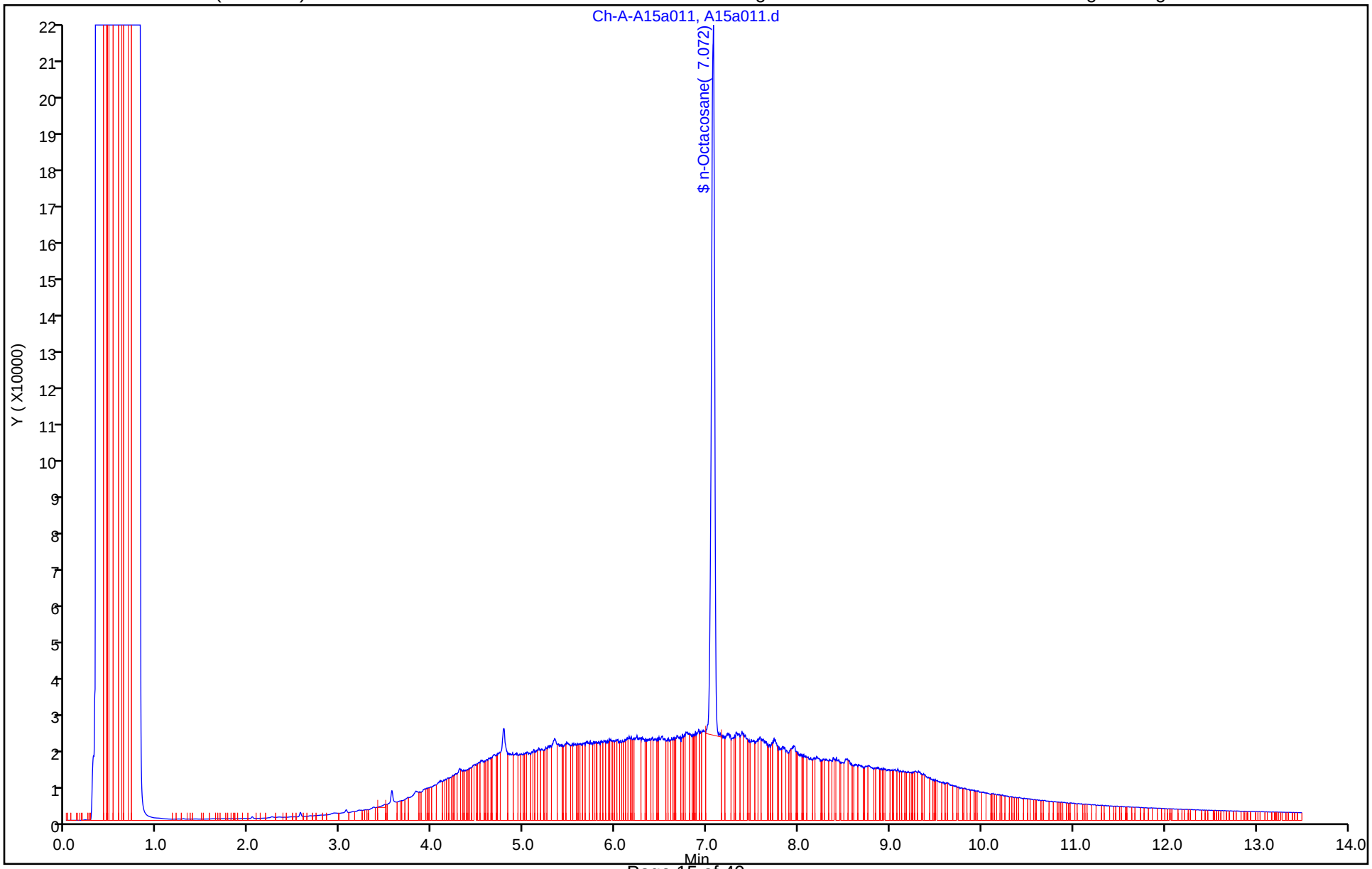
Report Date: 15-Jan-2019 17:09:25 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a011.d

Injection Date:	15-Jan-2019 16:21:28	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90699-G-3-A	Lab Sample ID:	440-90699-3	Worklist Smp#:	11
Client ID:	DG-O7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a011.d				
Lims ID:	720-90699-G-3-A				
Client ID:	DG-O7W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 16:21:28	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 17:09:25	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: barnettl Date: 15-Jan-2019 17:09:25

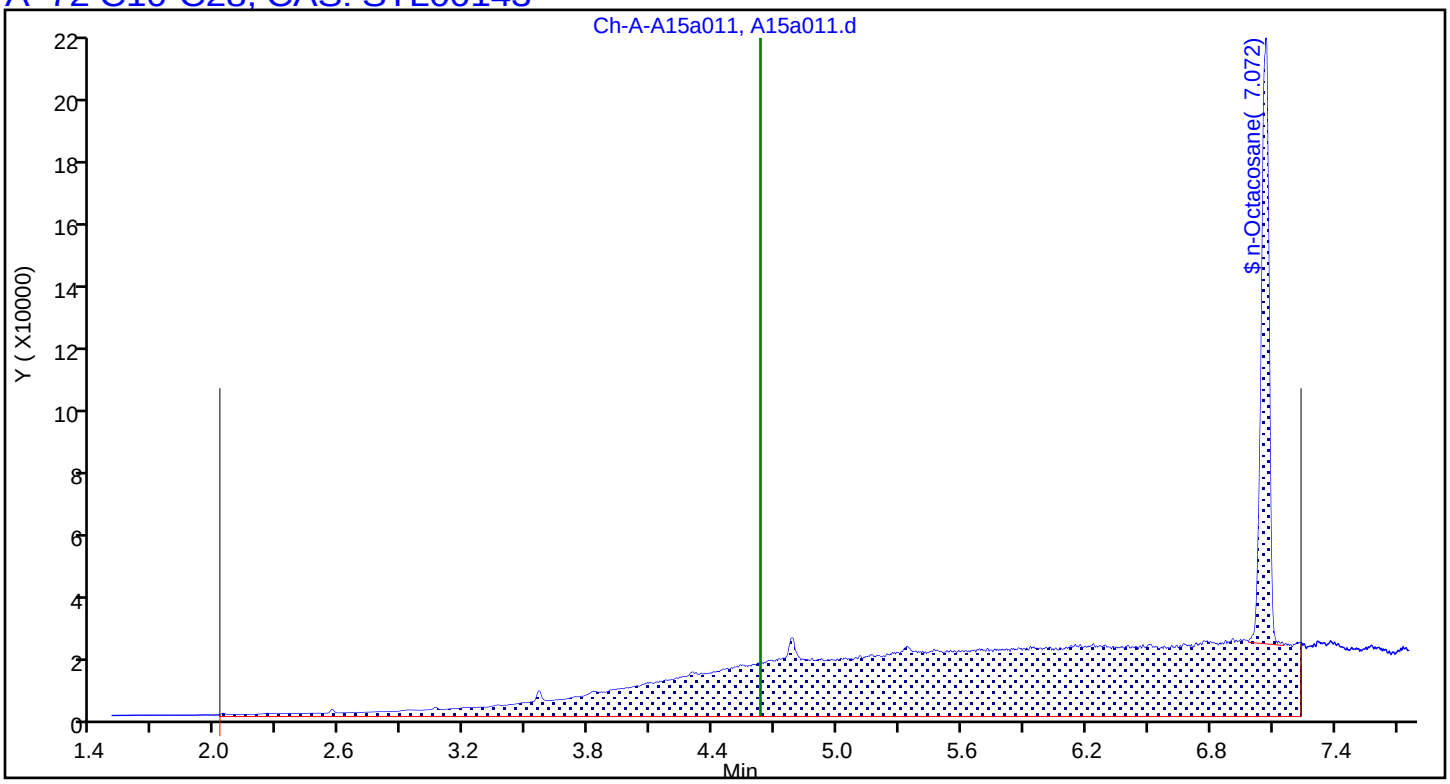
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	125.2	62.58
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 15-Jan-2019 17:09:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a011.d				
Injection Date:	15-Jan-2019 16:21:28	Instrument ID:	GC70A		
Lims ID:	720-90699-G-3-A	Lab Sample ID:	440-90699-3		
Client ID:	DG-O7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

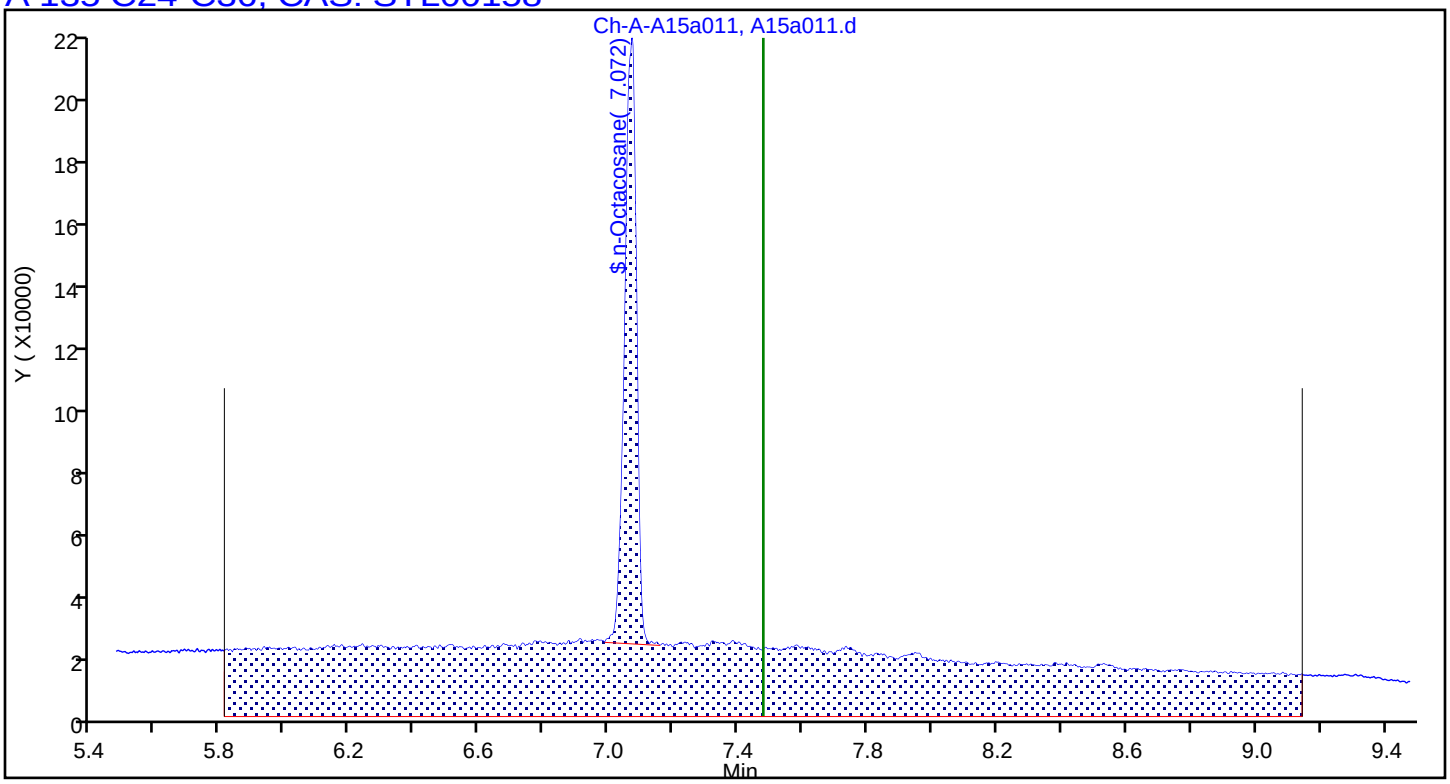


Report Date: 15-Jan-2019 17:09:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a011.d				
Injection Date:	15-Jan-2019 16:21:28	Instrument ID:	GC70A		
Lims ID:	720-90699-G-3-A	Lab Sample ID:	440-90699-3		
Client ID:	DG-O7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a012.d				
Lims ID:	720-90699-G-4-A				
Client ID:	DG-Q7W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 16:43:15	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 17:15:59	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: barnettl		Date:	15-Jan-2019 17:15:59		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.629	(2.018-7.240)		561742	155.1	
$ 127 n-Octacosane	7.067	7.070	-0.003	506500	137.7	
A 135 C24-C36	7.478	(5.810-9.145)		603653	166.7	

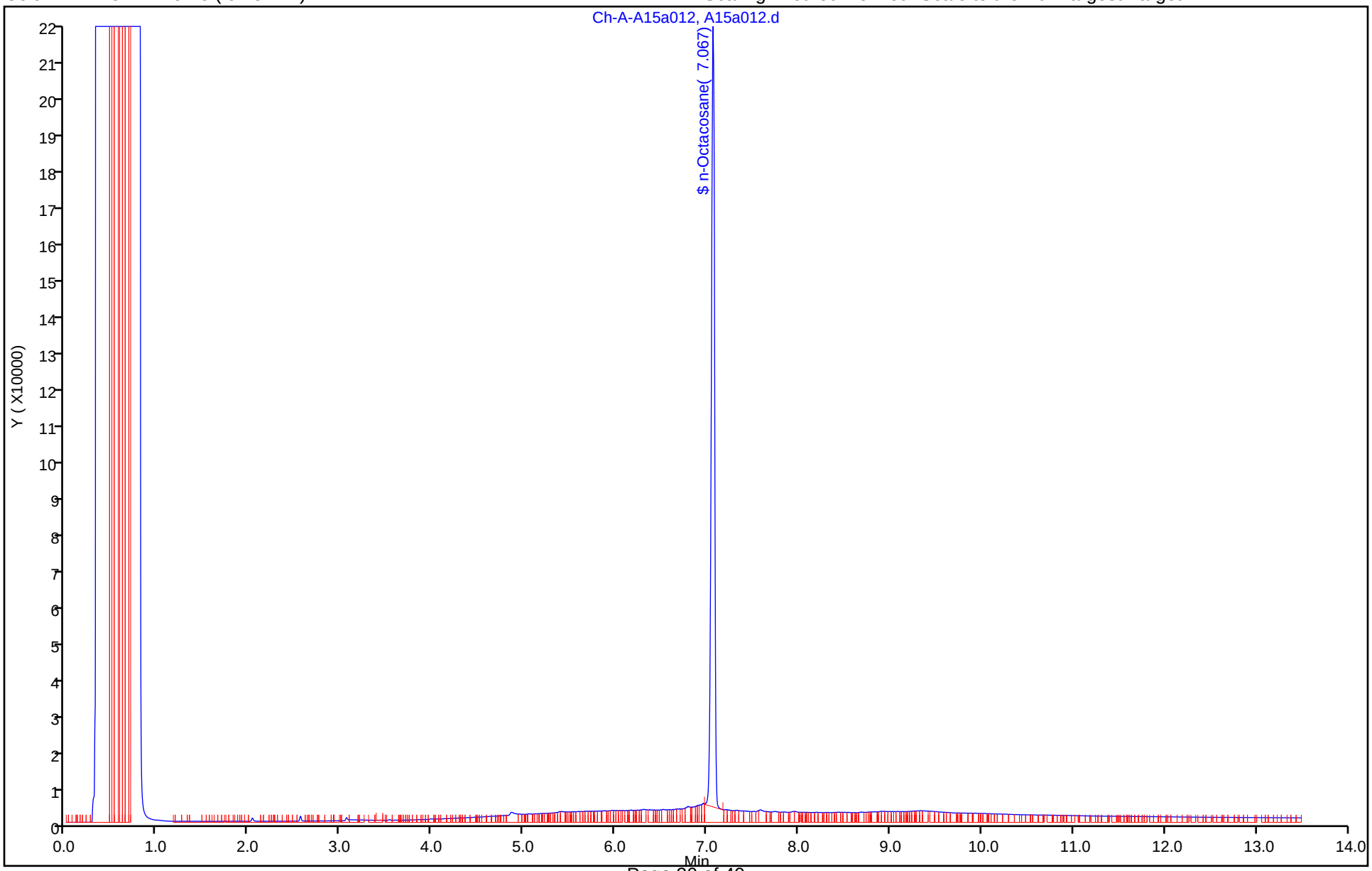
Report Date: 15-Jan-2019 17:16:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a012.d

Injection Date:	15-Jan-2019 16:43:15	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90699-G-4-A	Lab Sample ID:	440-90699-4	Worklist Smp#:	12
Client ID:	DG-Q7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a012.d				
Lims ID:	720-90699-G-4-A				
Client ID:	DG-Q7W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 16:43:15	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 17:15:59	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: barnettl Date: 15-Jan-2019 17:15:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	137.7	68.84
$ 178 n-Triacontane-d62	0.0	0	0.00

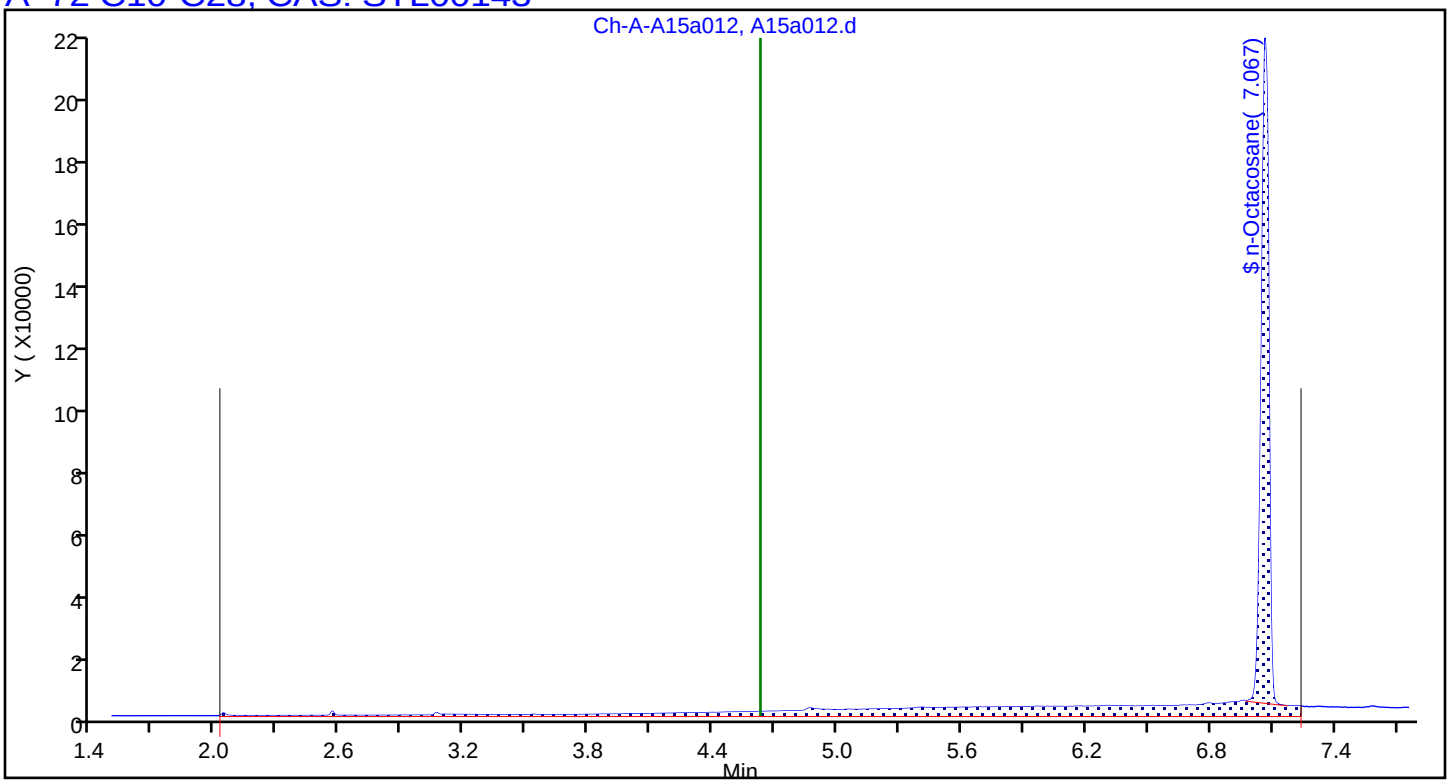
Report Date: 15-Jan-2019 17:16:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a012.d

Injection Date:	15-Jan-2019 16:43:15	Instrument ID:	GC70A		
Lims ID:	720-90699-G-4-A	Lab Sample ID:	440-90699-4		
Client ID:	DG-Q7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



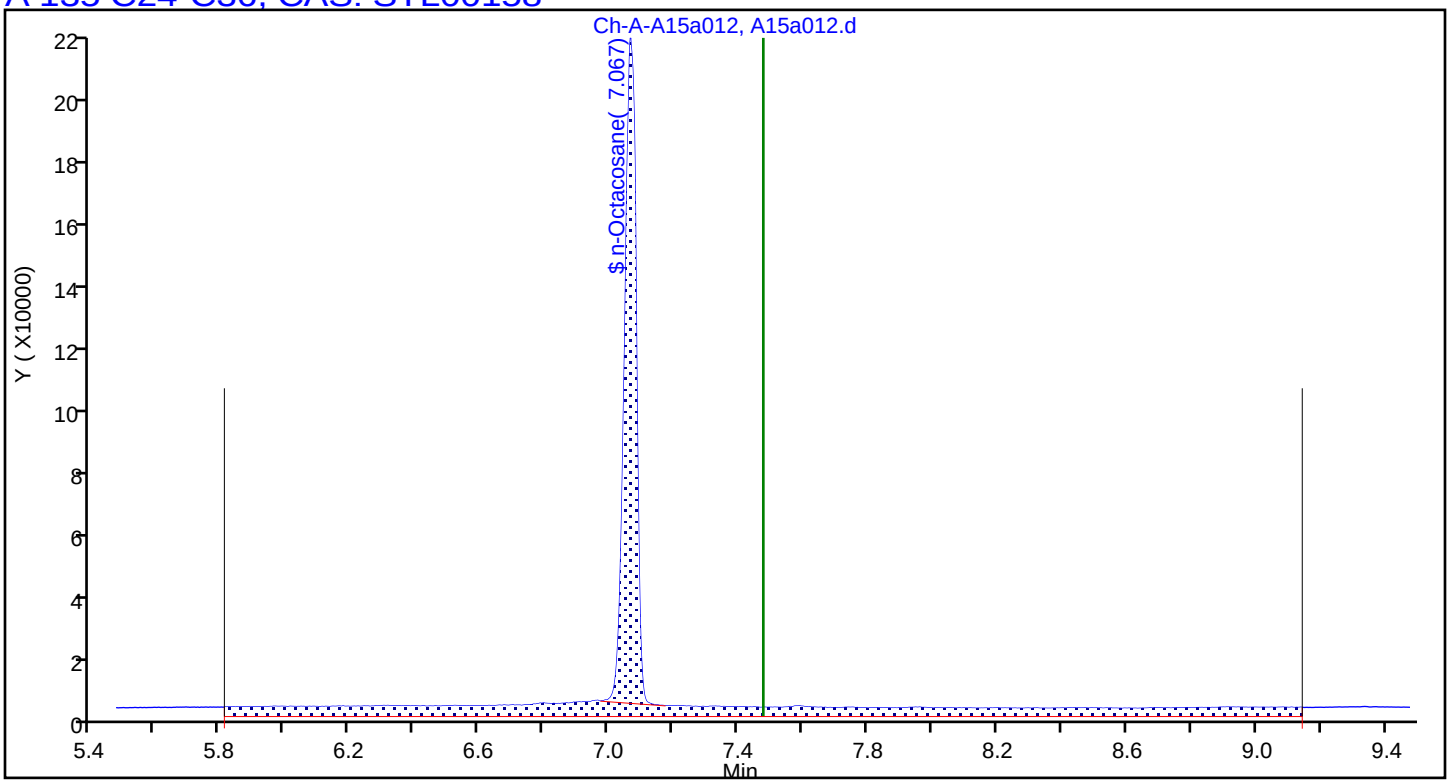
Report Date: 15-Jan-2019 17:16:00 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a012.d

Injection Date:	15-Jan-2019 16:43:15	Instrument ID:	GC70A		
Lims ID:	720-90699-G-4-A	Lab Sample ID:	440-90699-4		
Client ID:	DG-Q7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a013.d				
Lims ID:	720-90699-G-5-A				
Client ID:	DG-S7W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 17:04:56	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 17:29:56	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: barnettl		Date:	15-Jan-2019 17:29:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.629	(2.018-7.240)		331814	91.6	
$ 127 n-Octacosane	7.072	7.070	0.002	513132	139.5	
A 135 C24-C36	7.478	(5.810-9.145)		288424	79.6	

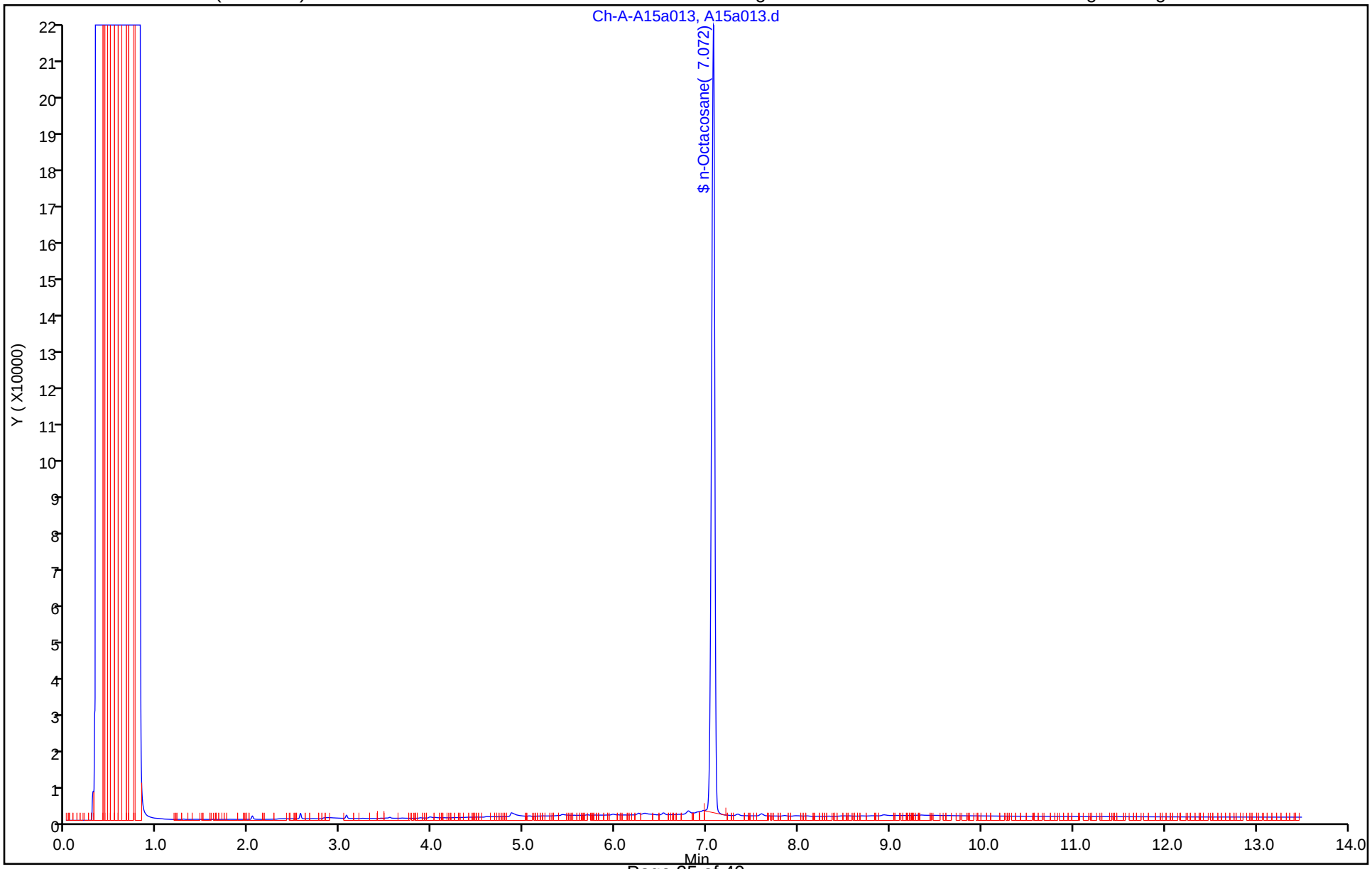
Report Date: 15-Jan-2019 17:29:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a013.d

Injection Date:	15-Jan-2019 17:04:56	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90699-G-5-A	Lab Sample ID:	440-90699-5	Worklist Smp#:	14
Client ID:	DG-S7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a013.d				
Lims ID:	720-90699-G-5-A				
Client ID:	DG-S7W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 17:04:56	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 17:29:56	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: barnettl Date: 15-Jan-2019 17:29:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	139.5	69.74
$ 178 n-Triacontane-d62	0.0	0	0.00

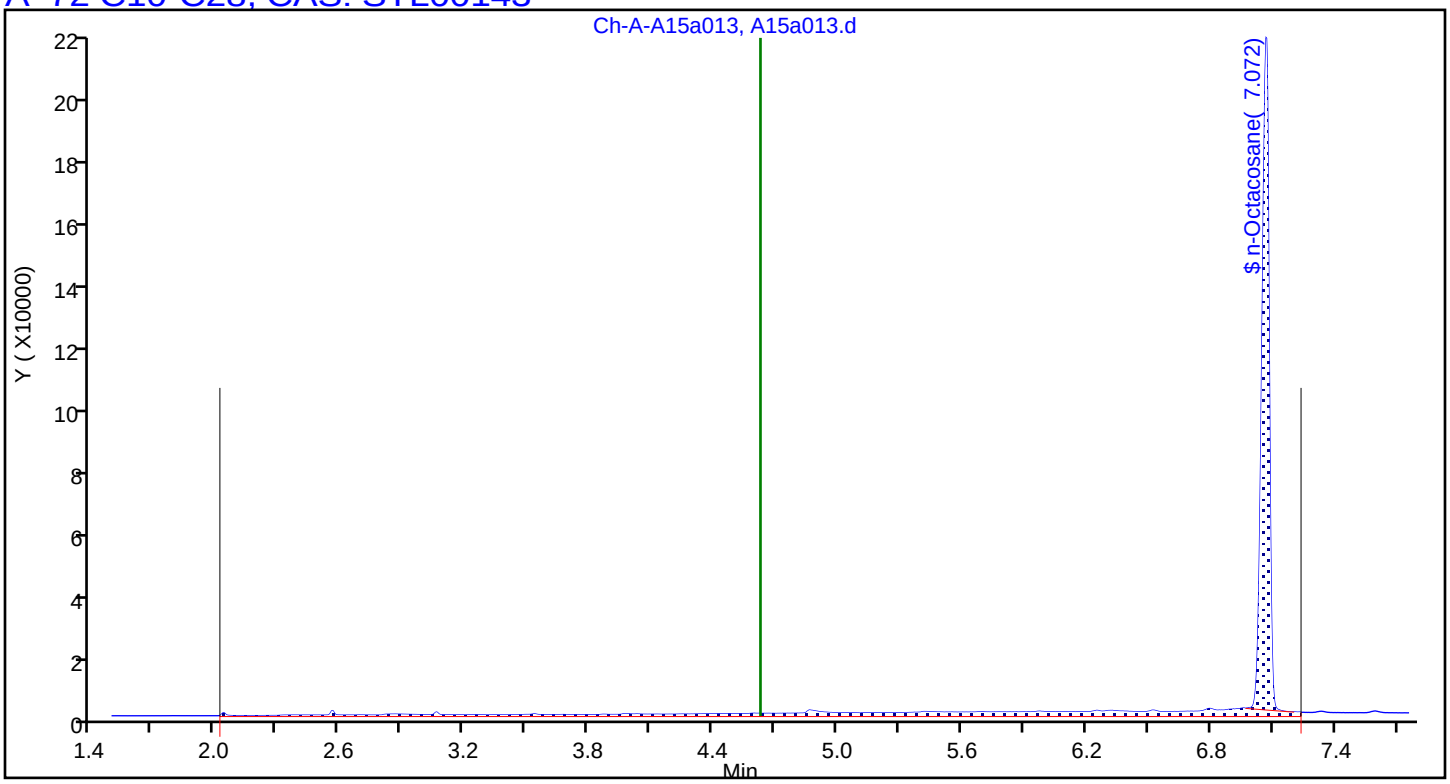
Report Date: 15-Jan-2019 17:29:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a013.d

Injection Date:	15-Jan-2019 17:04:56	Instrument ID:	GC70A		
Lims ID:	720-90699-G-5-A	Lab Sample ID:	440-90699-5		
Client ID:	DG-S7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

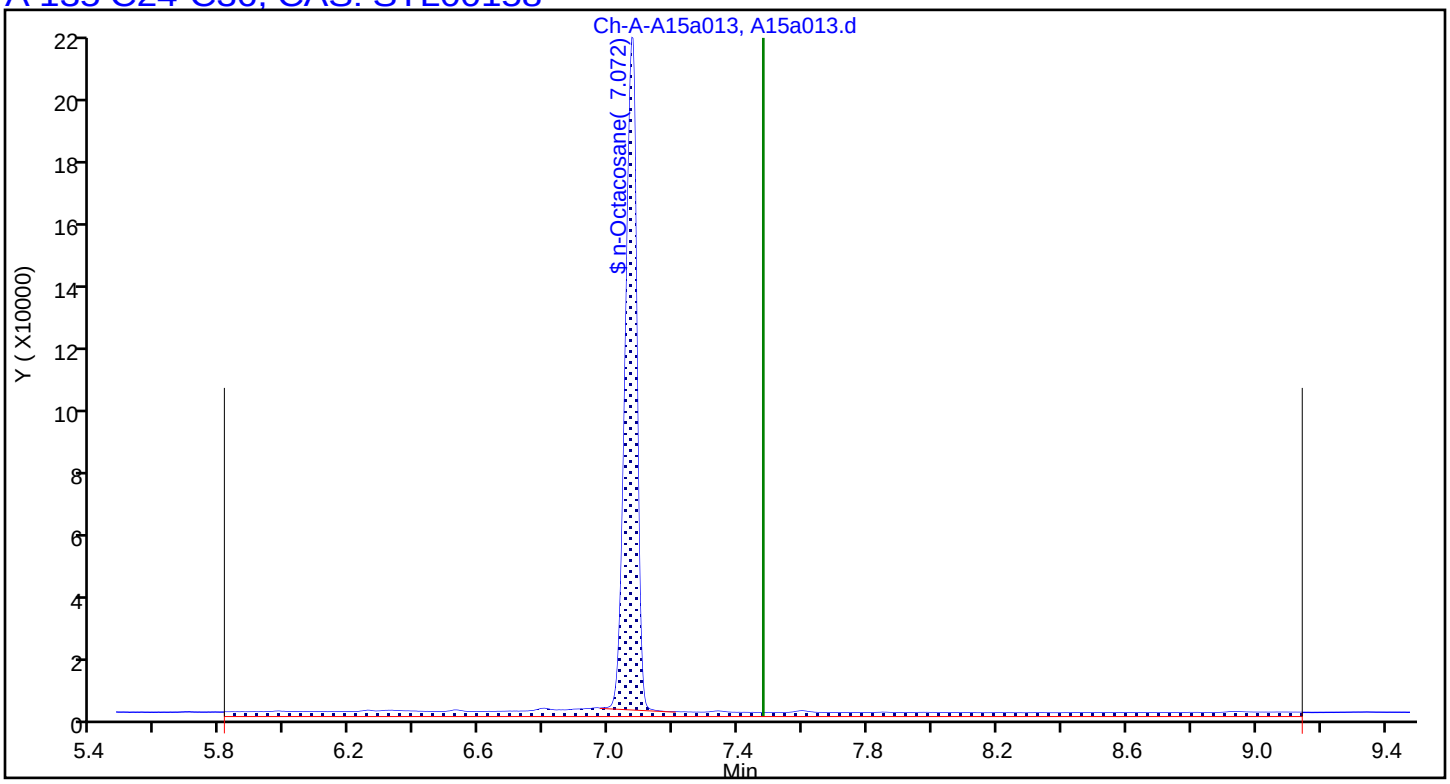


Report Date: 15-Jan-2019 17:29:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a013.d				
Injection Date:	15-Jan-2019 17:04:56	Instrument ID:	GC70A		
Lims ID:	720-90699-G-5-A	Lab Sample ID:	440-90699-5		
Client ID:	DG-S7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a018.d				
Lims ID:	720-90699-G-6-A				
Client ID:	DG-U7W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 18:53:33	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 20:35:56	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: barnettl		Date:	15-Jan-2019 20:35:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.629	(2.018-7.240)		353707	97.7	
$ 127 n-Octacosane	7.060	7.070	-0.010	534038	145.2	
A 135 C24-C36	7.478	(5.810-9.145)		298661	82.5	

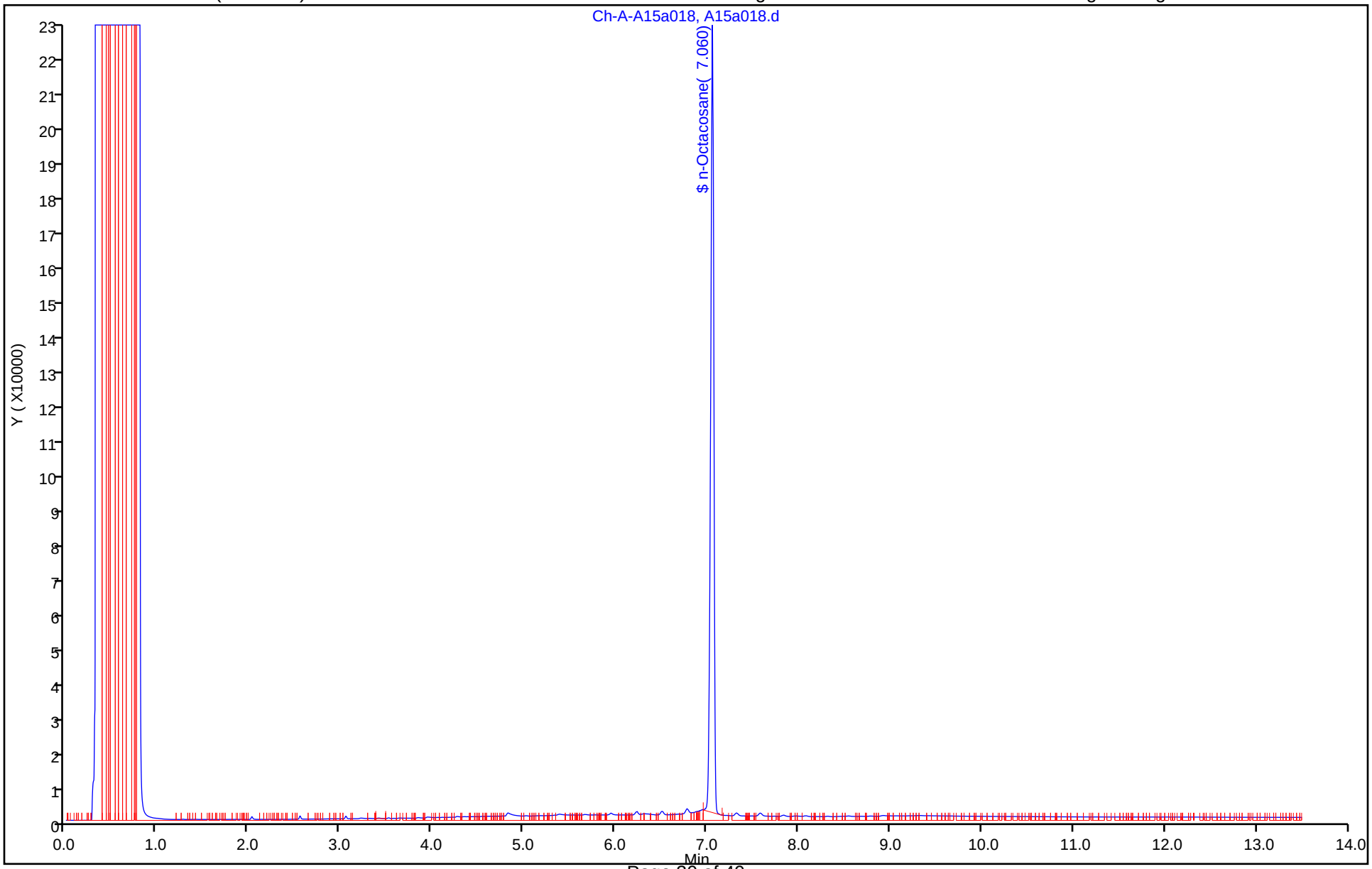
Report Date: 15-Jan-2019 20:35:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a018.d

Injection Date:	15-Jan-2019 18:53:33	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90699-G-6-A	Lab Sample ID:	440-90699-6	Worklist Smp#:	19
Client ID:	DG-U7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a018.d				
Lims ID:	720-90699-G-6-A				
Client ID:	DG-U7W				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 18:53:33	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 20:35:56	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: barnettl Date: 15-Jan-2019 20:35:56

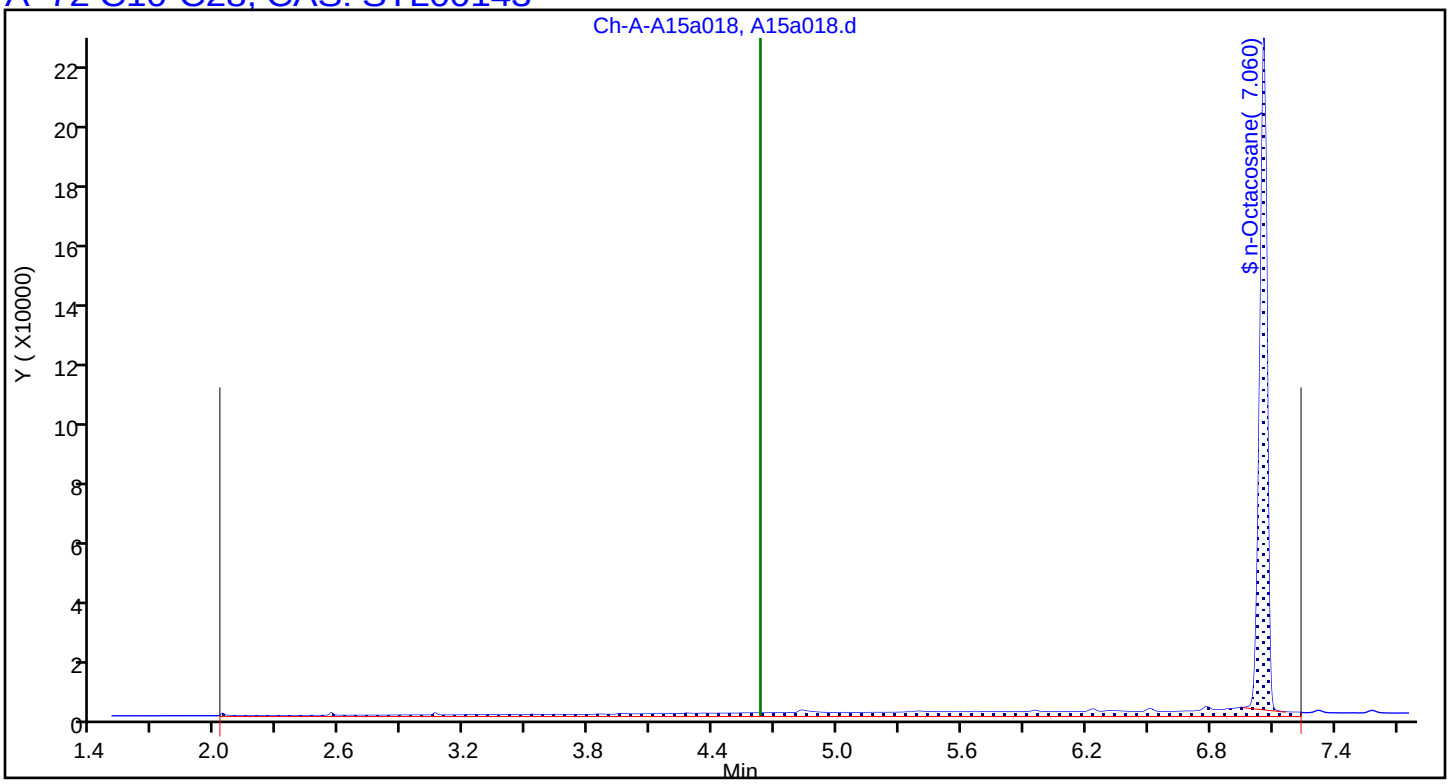
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	145.2	72.58
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 15-Jan-2019 20:35:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a018.d				
Injection Date:	15-Jan-2019 18:53:33	Instrument ID:	GC70A		
Lims ID:	720-90699-G-6-A	Lab Sample ID:	440-90699-6		
Client ID:	DG-U7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



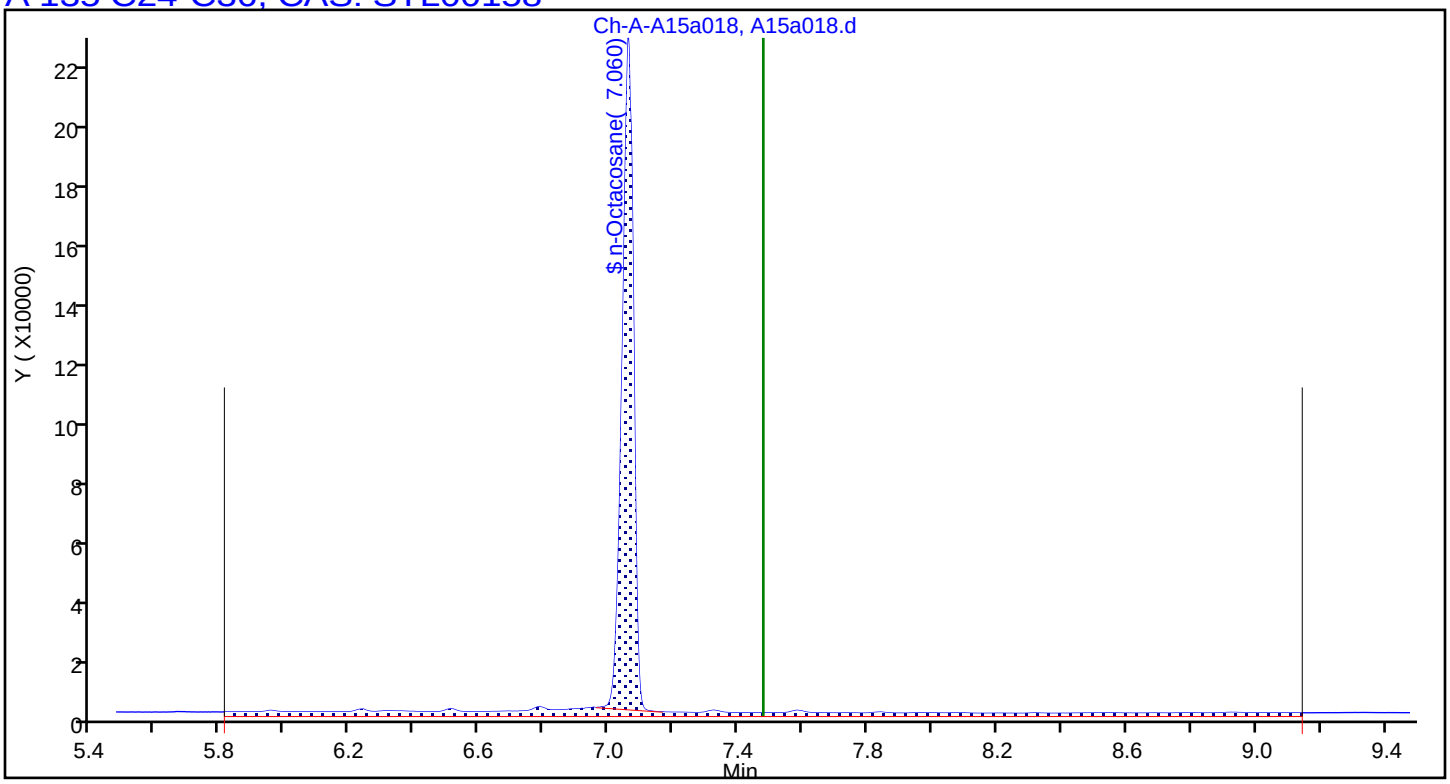
Report Date: 15-Jan-2019 20:35:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a018.d

Injection Date:	15-Jan-2019 18:53:33	Instrument ID:	GC70A		
Lims ID:	720-90699-G-6-A	Lab Sample ID:	440-90699-6		
Client ID:	DG-U7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a019.d				
Lims ID:	720-90699-G-9-A				
Client ID:	DUP-44				
Sample Type:	Client				
Inject. Date:	15-Jan-2019 19:15:12	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	15-Jan-2019 20:36:14	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: barnettl		Date:	15-Jan-2019 20:36:14		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.629	(2.018-7.240)		455680	125.8	
$ 127 n-Octacosane	7.065	7.070	-0.005	503481	136.9	
A 135 C24-C36	7.478	(5.810-9.145)		397184	109.7	

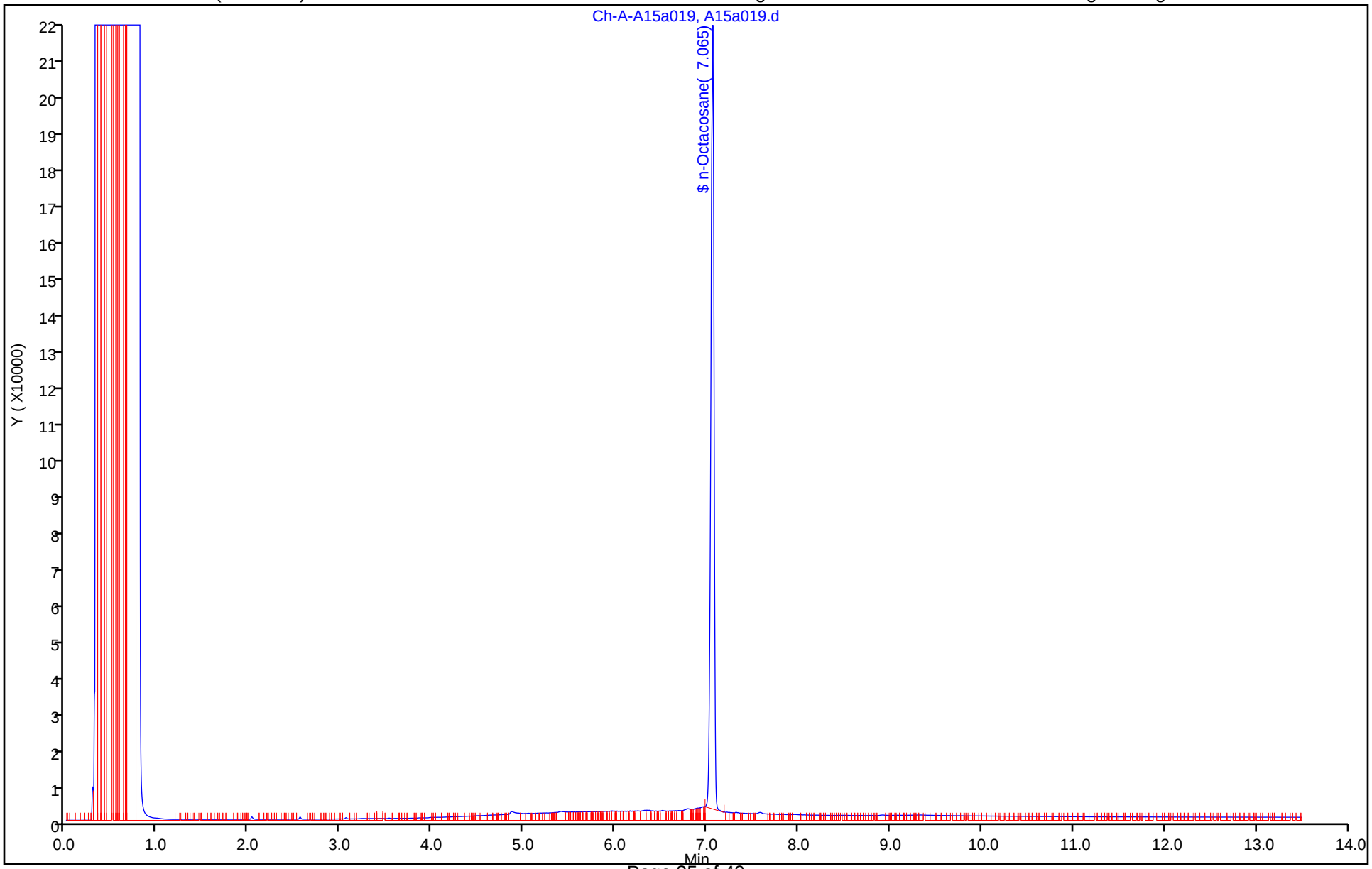
Report Date: 15-Jan-2019 20:36:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a019.d

Injection Date:	15-Jan-2019 19:15:12	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90699-G-9-A	Lab Sample ID:	440-90699-9	Worklist Smp#:	20
Client ID:	DUP-44				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a019.d
Lims ID: 720-90699-G-9-A
Client ID: DUP-44
Sample Type: Client
Inject. Date: 15-Jan-2019 19:15:12 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 15-Jan-2019 20:36:14 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0317

First Level Reviewer: barnettl Date: 15-Jan-2019 20:36:14

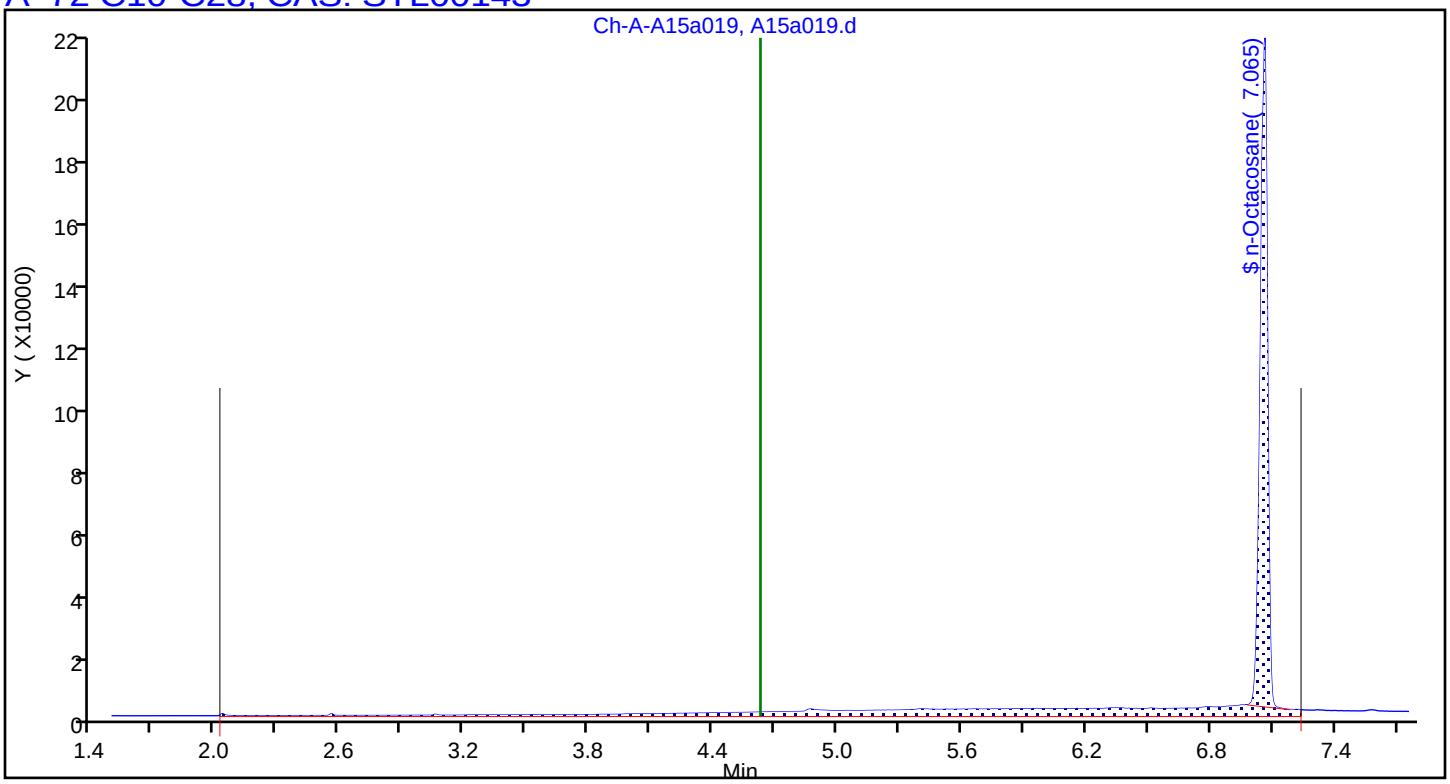
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	136.9	68.43
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 15-Jan-2019 20:36:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a019.d				
Injection Date:	15-Jan-2019 19:15:12	Instrument ID:	GC70A		
Lims ID:	720-90699-G-9-A	Lab Sample ID:	440-90699-9		
Client ID:	DUP-44				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



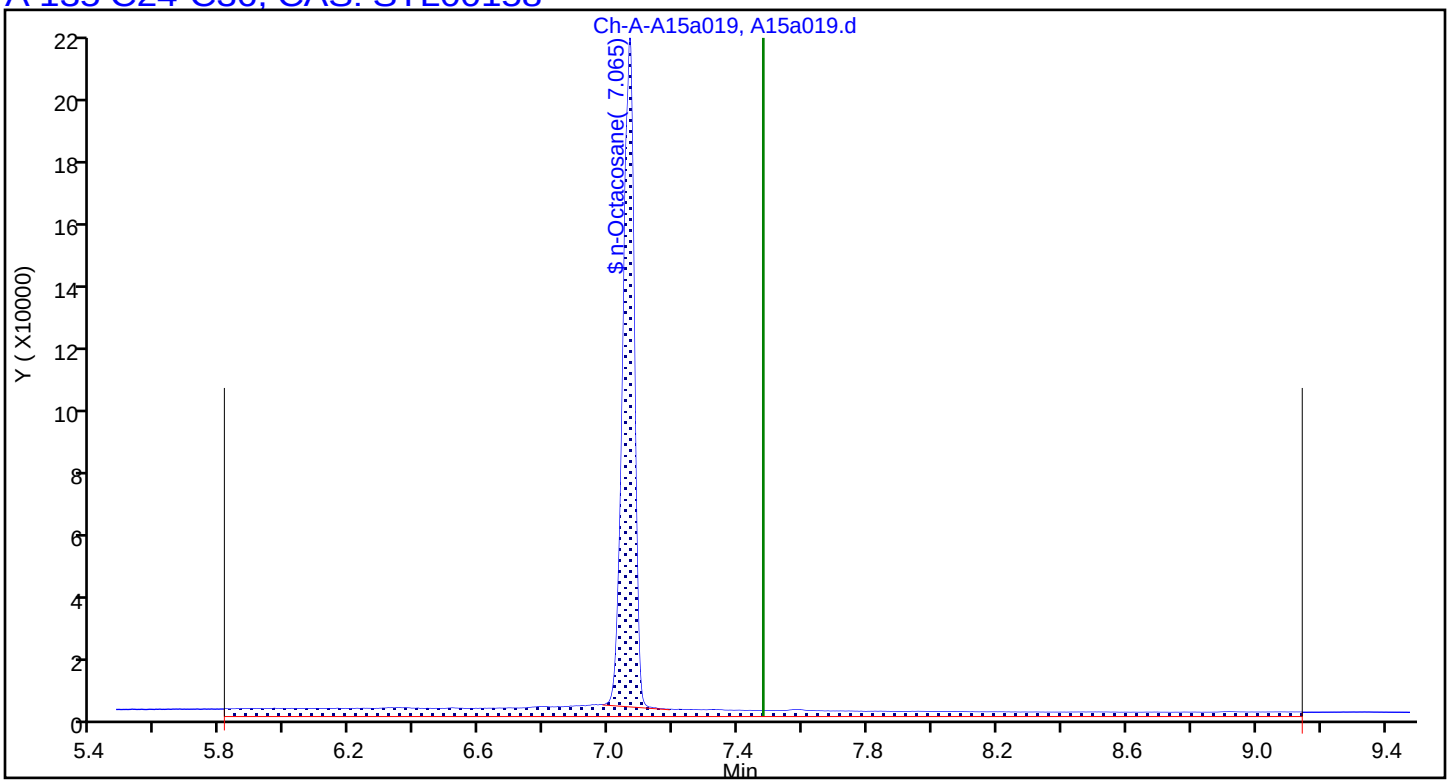
Report Date: 15-Jan-2019 20:36:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190115-114245.b\A15a019.d

Injection Date:	15-Jan-2019 19:15:12	Instrument ID:	GC70A		
Lims ID:	720-90699-G-9-A	Lab Sample ID:	440-90699-9		
Client ID:	DUP-44				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

720-90699

TestAmerica

#187754

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90699 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes:
1 DG-P5W	1/10/19	1305	G	GW	8	Y		X	X	X	X	X	Metals and chromium samples filtered
2 DG-N5W		1340											
3 DG-07W		1415											
4 DG-Q7W		1445											
5 DG-S7W		1515											
6 DG-U7W		1535			↓								
7 FB-01.10.19		—			2			X					
8 TB-01.10.19		—			2			X					
9 DUP-44	↓	—	↓	↓	8			X					↓

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

4.5°C, 0.5°C, 0.4°C, 1.6°C, 0.2°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time: 1/10/19 1605	Received by	Company: TA PLS	Date/Time: 1-10-19 16:05
Relinquished by	Company: TA PLS	Date/Time: 1-10-19 18:55	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA PLS	Date/Time: 1-10-19 18:55

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 1786 4574 1308	COC No: 720-40772.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90699-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/22/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons (Hold)	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics (Hold)	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM (Hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:												
DG-P5W (720-90699-1)	1/10/19	13:05 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-N5W (720-90699-2)	1/10/19	13:40 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Q7W (720-90699-3)	1/10/19	14:15 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Q7W (720-90699-4)	1/10/19	14:45 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-S7W (720-90699-5)	1/10/19	15:15 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-U7W (720-90699-6)	1/10/19	15:35 Pacific		Water			X	X	X	X				6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-01 10.19 (720-90699-7)	1/10/19	Pacific		Water			X	X						2	check for 2 phases
TB-01.10.19 (720-90699-8)	1/10/19	Pacific		Water			X	X						2	check for 2 phases
DUP44 (720-90699-9)	1/10/19	Pacific		Water			X				X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment		
Relinquished by	Date/Time: 1/11/19 1331	Company TAPLS	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by: Olga Olivelos	Date/Time 1/12/19 11:20	Company TALKV
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks.	1.9/1.9 IR-89 1.8/1.8	

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-90732-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
2/2/2019 5:29 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/02/2019
Revision: 1

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90732-1

Comments
No additional comments.

Receipt
The samples were received on 1/11/2019 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.9º C, 1.7º C, 1.7º C, 2.1º C, 2.2º C, 3.0º C, 3.0º C, 3.3º C, 3.7º C and 3.8º C.

Receipt Exceptions
The COC lists multiple methods for samples DG-AW7S-0.5-1 (720-90732-9) and DG-AW7S-3.5-4 (720-90732-10); however, only the containers for Methods 8260B and CA LUFT GRO were received. The samples were logged in for Methods 8260B and CA LUFT GRO per client request.

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): FB-1-11-19 (720-90732-11).

GC/MS VOA
Method(s) 8260/8260B/CA_LUFTMS: Surrogate recovery for 4-Bromofluorobenzene for the following sample was above outside control limits: DUP-106 (720-90732-4). Re-extraction and/or re-analysis was performed with concurring results. The re-analysis has been reported.

Method 8260B: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-523238 and analytical batch 440-523259 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery. Elevated percent RPD values were obtained.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258711 and analytical batch 720-259001 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-Q15S-0.5-1 (720-90732-1), DUP-106 (720-90732-4), DG-S15S-0.5-1 (720-90732-5) and DG-S15S-6-6.5 (720-90732-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081A: The following sample was diluted due to the abundance of non-target analytes: DG-Q15S-7.5-8 (720-90732-3). Elevated reporting limits (RLs) are provided.

Method 8081A: The laboratory control sample (LCS) for preparation batch 720-258691 and analytical batches 720-259105, 720-259087, 720-259019 and 720-259209 recovered outside control limits for the following analyte: Endrin aldehyde. This analytes was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a "*" symbol.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batches 720-258691 and 720-258953 and analytical batches 720-259087 and 720-259212 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: The following samples were diluted due to visible color in the samples indicating possible matrix affects: DG-Q15S-0.5-1 (720-90732-1), DUP-106 (720-90732-4) and DG-S15S-0.5-1 (720-90732-5). Elevated reporting limits (RL) are provided.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-Q15S-0.5-1 (720-90732-1), DUP-106 (720-90732-4), DG-S15S-0.5-1 (720-90732-5) and DG-S15S-6-6.5 (720-90732-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The matrix spike duplicate (MSD) recovery for preparation batch 440-523387 and analytical batch 440-524038 was outside control limits for PCB-1260 on the confirmation column. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Q15S-0.5-1 (720-90732-1), DG-Q15S-3.5-4 (720-90732-2), DG-Q15S-7.5-8 (720-90732-3), DUP-106 (720-90732-4), DG-S15S-0.5-1 (720-90732-5), DG-S15S-3.5-4 (720-90732-6), DG-S15S-6-6.5 (720-90732-7), DUP-107 (720-90732-8) and (720-90718-A-9-C). Elevated reporting limits (RLs) are

provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258611 recovered above the upper control limit for Beryllium and Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following CCV is impacted: (CCV 720-258611/17). Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258411 and analytical batch 720-258629 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258629 was outside control limits for Cobalt (26%) and Nickel (12%). (720-90718-A-9-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Q15S-0.5-1 (720-90732-1), DG-Q15S-3.5-4 (720-90732-2), DG-Q15S-7.5-8 (720-90732-3), DUP-106 (720-90732-4), DG-S15S-0.5-1 (720-90732-5), DG-S15S-3.5-4 (720-90732-6), DG-S15S-6-6.5 (720-90732-7), DUP-107 (720-90732-8), (720-90718-A-9-C), (720-90718-A-9-A MS), (720-90718-A-9-B MSD), (720-90718-A-9-C PDS) and (720-90718-A-9-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258629 contained Copper above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB. Therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-Q15S-7.5-8 (720-90732-3) and DG-S15S-0.5-1 (720-90732-5). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258630 recovered above the upper control limit for Thallium and Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following CCVs are impacted: (CCV 720-258630/11) and (CCV 720-258630/17). Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The method blank for preparation batch 720-258411 and analytical batch 720-258629 contained Barium and Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-258627 and analytical batch 720-258716 contained Arsenic, Barium, Cadmium, Cobalt, Chromium, Nickel, Lead, Antimony, and Vanadium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-258716 contained Lead above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258627 and analytical batch 720-258781 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-258781 was outside control limits for Barium (42%), Cobalt (36%), Chromium (40%), Nickel (28%), Lead (31%), Vanadium (35%), and Zinc (16%): (720-90718-A-9-M SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: (720-90718-A-9-M), (720-90718-A-9-K MS), (720-90718-A-9-L MSD), (720-90718-A-9-M PDS) and (720-90718-A-9-M SD). Elevated reporting limits (RLs) are provided.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-258413 and analytical batch 720-258790 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_022.d
Lims ID: 720-90732-E-1-G
Client ID: DG-Q15S-0.5-1
Sample Type: Client
Inject. Date: 25-Jan-2019 16:34:37 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 130 Name: 720-0056286-022
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m
Limit Group: DRO
Last Update: 25-Jan-2019 17:36:52 Calib Date: 25-Jan-2019 07:10:47
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 25-Jan-2019 17:36:52

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.680	2.665	0.015	1755	NC	M
	23 n-Decane	3.920	3.888	0.032	8624	NC	M
A	21 Stoddard Solvent	4.619	(2.665-6.572)		71554	6.29	M
A	1 C9-C13	4.619	(2.665-6.572)		71554	5.65	M
A	57 C10-C12	4.831	(3.888-5.773)		31440	3.20	M
	24 Dodecane	5.770	5.773	-0.003	1445	NC	M
A	3 C9 - C17	5.972	(2.665-9.278)		282249	20.2	M
A	47 C9 - C18	6.260	(2.665-9.854)		465400	41.5	M
A	60 C10-C16	6.268	(3.888-8.648)		198008	16.1	M
A	25 C9-C19	6.537	(2.665-10.408)		668283	47.8	M
A	15 Kerosene	6.537	(2.665-10.408)		668283	59.4	M
	26 C13	6.520	6.572	-0.052	19968	NC	M
$	27 n-Decanoic Acid (Surr)		7.190			ND	U
A	59 C12-C16	7.211	(5.773-8.648)		168013	17.1	M
A	62 C10-C20	7.415	(3.888-10.942)		999290	101.8	M
A	28 C9-C24	7.763	(2.665-12.861)		3551391	361.7	M
A	29 C9-C25	7.980	(2.665-13.295)		4262571	434.1	M
A	54 C10-C23	8.149	(3.888-12.410)		2615213	266.4	M
A	4 C10-C24	8.375	(3.888-12.861)		3538529	360.4	M
A	16 C10-C25	8.592	(3.888-13.295)		4249709	432.8	M
	45 Hexadecane	8.660	8.648	0.012	15791	NC	M
A	14 C10-C26	8.801	(3.888-13.714)		5101457	519.6	M
A	67 C12-C22	8.857	(5.773-11.941)		1533770	156.2	M
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		6841232	NC	M
A	32 C10-C28	9.198	(3.888-14.508)		6841232	696.8	M
A	5 Diesel	9.198	(3.888-14.508)		6841232	696.8	M
A	30 C13-C22	9.256	(6.572-11.941)		1525041	155.3	M
	44 Heptadecane	9.310	9.278	0.032	53082	NC	M
A	31 C12-C24	9.317	(5.773-12.861)		3508534	357.3	M
	49 n-Octadecane		9.854			ND	
A	11 Bunker Range Organics (C9-	9.944	(2.665-17.223)		17588162	NC	M
A	9 Crude Oil Range Organics (	9.944	(2.665-17.223)		13411929	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.944	(2.665-17.223)		13411929	1234.5	
33 C19	10.423	10.408	0.015	94625	NC	M
A 64 C13-C28	10.540	(6.572-14.508)		6802508	692.8	M
A 17 C10-C36	10.556	(3.888-17.223)		17575300	1790.1	M
A 68 Crude Oil Range Organics (	10.708	(2.665-18.751)		15719762	NC	
A 13 C9-C40	10.708	(2.665-18.751)		15719762	2015.8	
A 58 C16-C24	10.755	(8.648-12.861)		3340521	340.2	M
61 icosane		10.942			ND	
A 6 C10-C40	11.320	(3.888-18.751)		15708189	2014.5	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane	12.040	11.941	0.099	168457	NC	M
A 18 C12-C40	12.262	(5.773-18.751)		15664398	2009.2	
36 Tricosane		12.410			ND	
A 66 C13-C40	12.661	(6.572-18.751)		15252586	1960.7	
37 n-Tetracosane	12.817	12.861	-0.044	253153	NC	M
A 2 C16-C36 ORO	12.936	(8.648-17.223)		10519792	1474.6	
38 C25	13.280	13.295	-0.015	125587	NC	M
A 19 C16-C40	13.700	(8.648-18.751)		15435087	1982.7	
46 n-Hexacosane	13.673	13.714	-0.041	570712	NC	M
A 20 C19-C36	13.816	(10.408-17.223)		10575909	1356.3	
A 55 C23-C32	14.178	(12.410-15.946)		7391450	1799.5	
39 n-Octacosane	14.450	14.508	-0.058	395726	NC	M
65 C29	14.983	14.884	0.099	580145	NC	M
A 7 Motor Oil	15.042	(12.861-17.223)		9216176	1614.5	
A 40 C24-C36	15.042	(12.861-17.223)		9438221	1653.4	M
A 50 C25-C36	15.259	(13.295-17.223)		8491945	1578.0	
A 10 C22-C40	15.346	(11.941-18.751)		12615948	1592.5	
A 41 C23-C40	15.581	(12.410-18.751)		12008831	1553.3	
A 8 C24-C40	15.806	(12.861-18.751)		11341725	1520.6	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.629	(14.508-18.751)		8135539	1657.4	
A 63 C29-C40	16.818	(14.884-18.751)		7203701	1651.7	
42 n-Hexatriacontane		17.223			ND	
43 C40		18.751			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

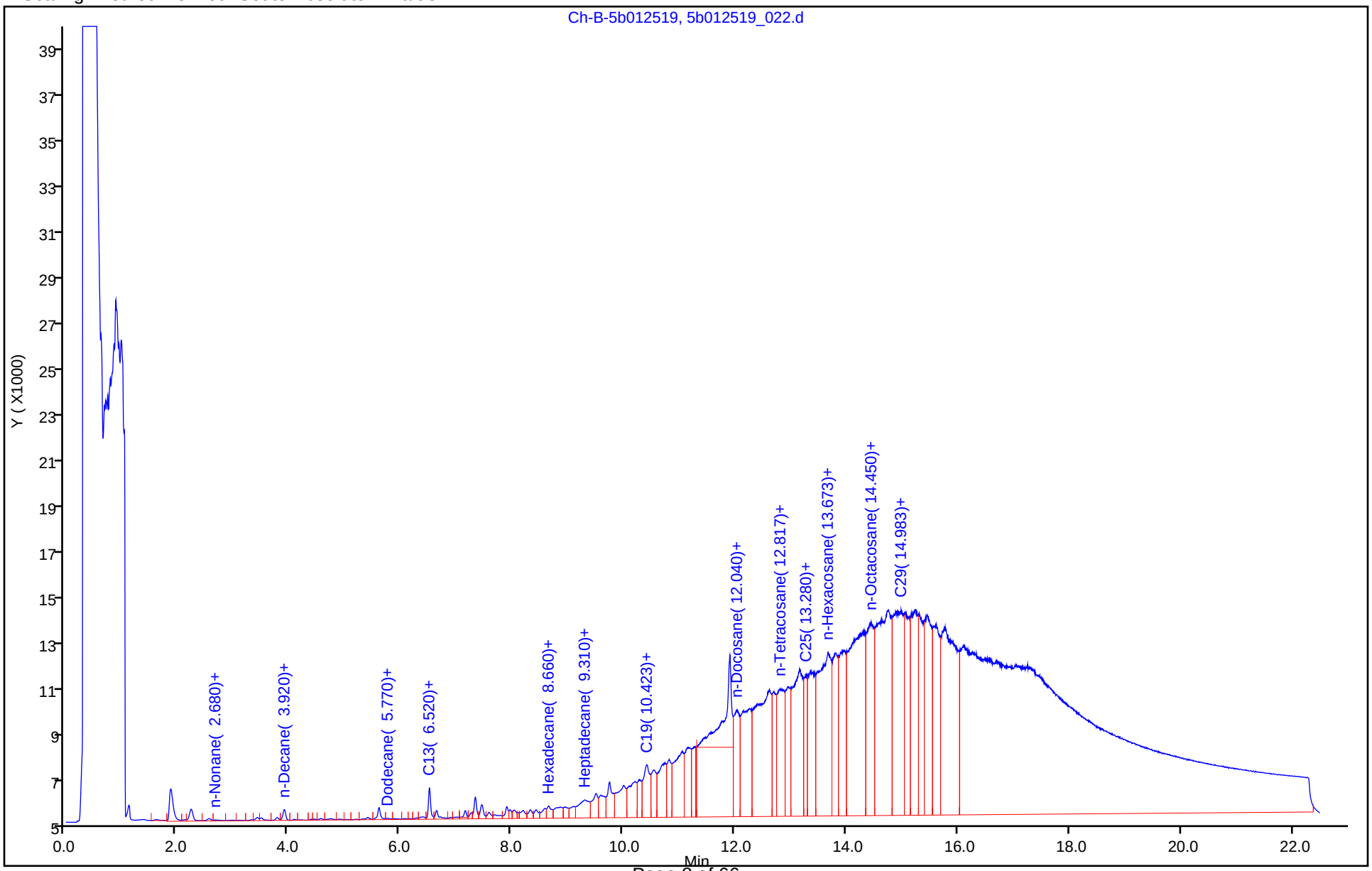
Report Date: 25-Jan-2019 17:36:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_022.d

Injection Date:	25-Jan-2019 16:34:37	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90732-E-1-G	Lab Sample ID:	720-90732-1	Worklist Smp#:	22
Client ID:	DG-Q15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

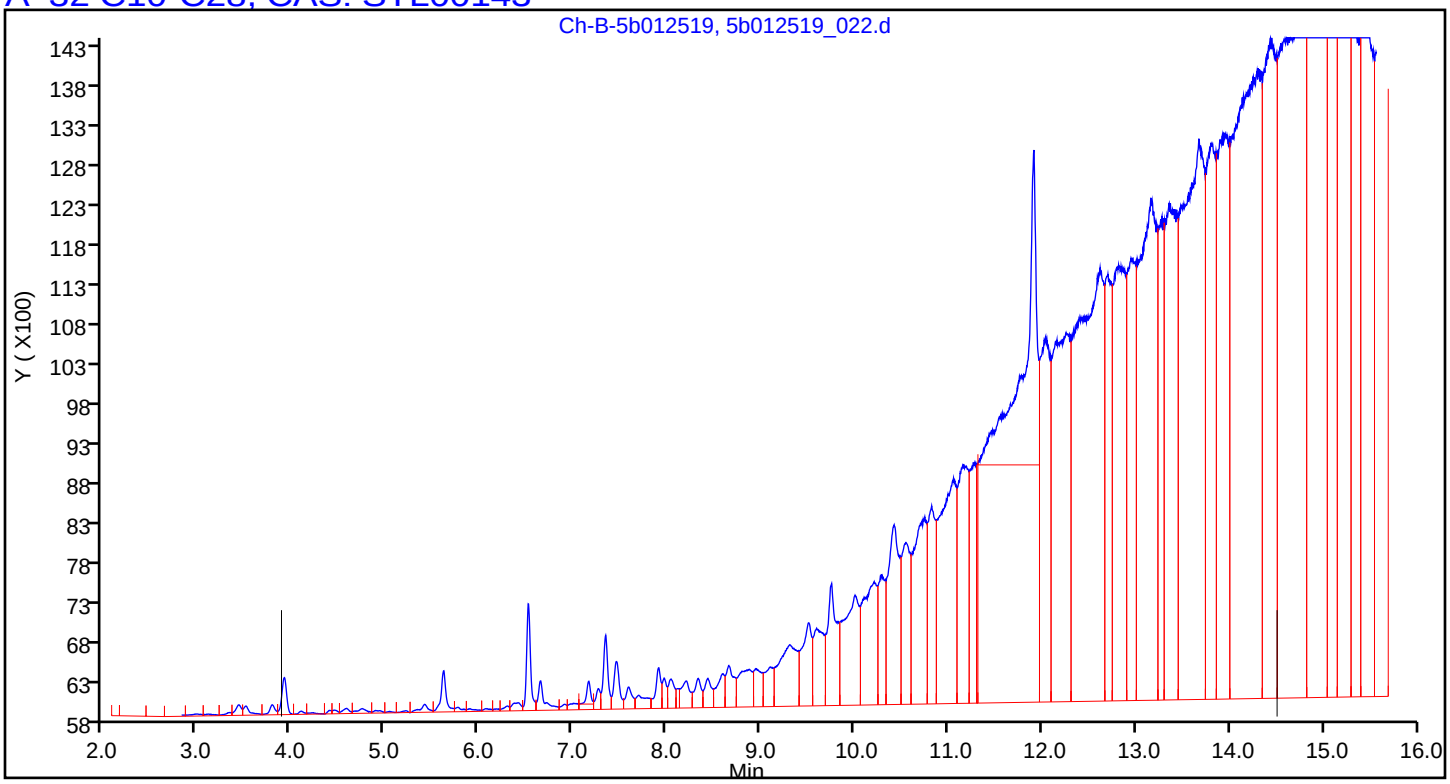


Report Date: 25-Jan-2019 17:36:54 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_022.d				
Injection Date:	25-Jan-2019 16:34:37	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-1-G	Lab Sample ID:	720-90732-1		
Client ID:	DG-Q15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

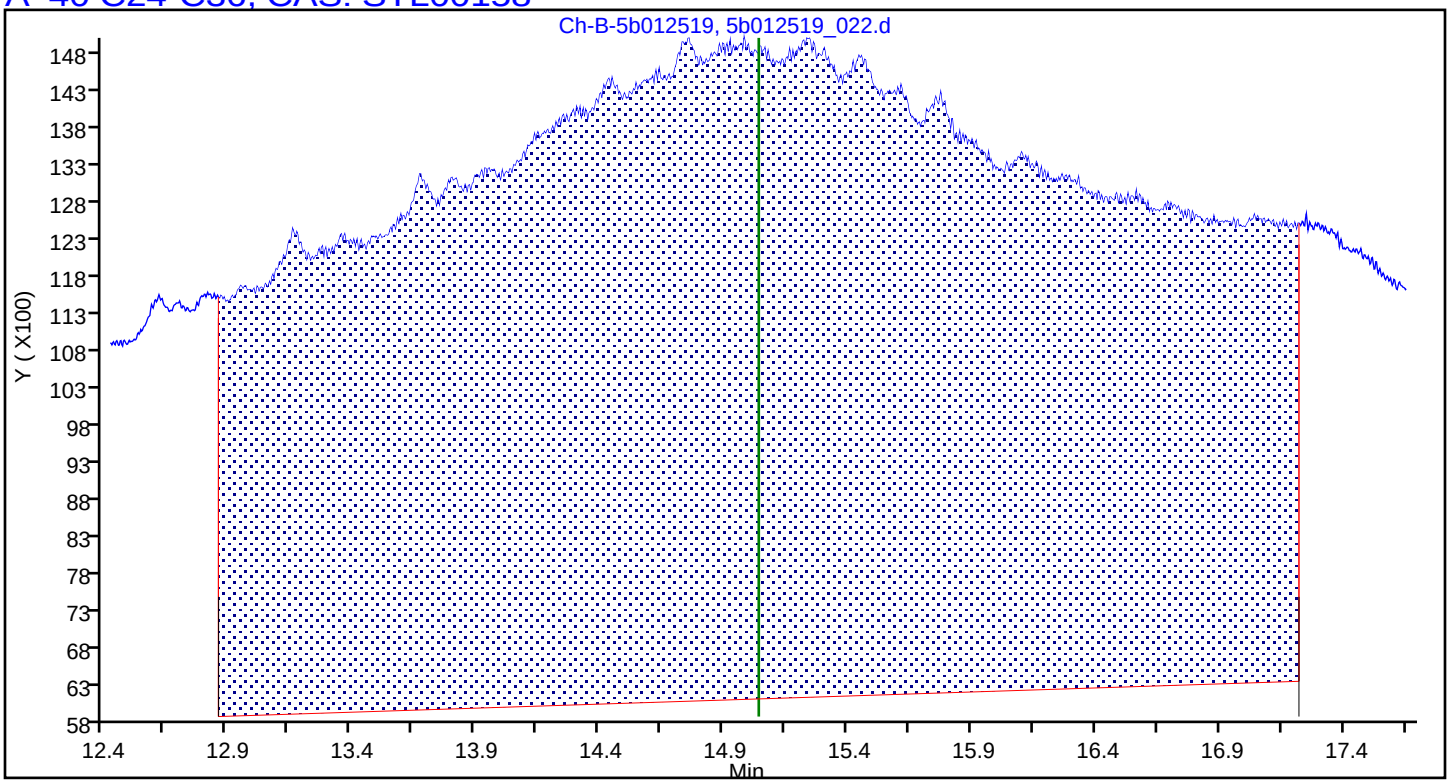


Report Date: 25-Jan-2019 17:36:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_022.d				
Injection Date:	25-Jan-2019 16:34:37	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-1-G	Lab Sample ID:	720-90732-1		
Client ID:	DG-Q15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

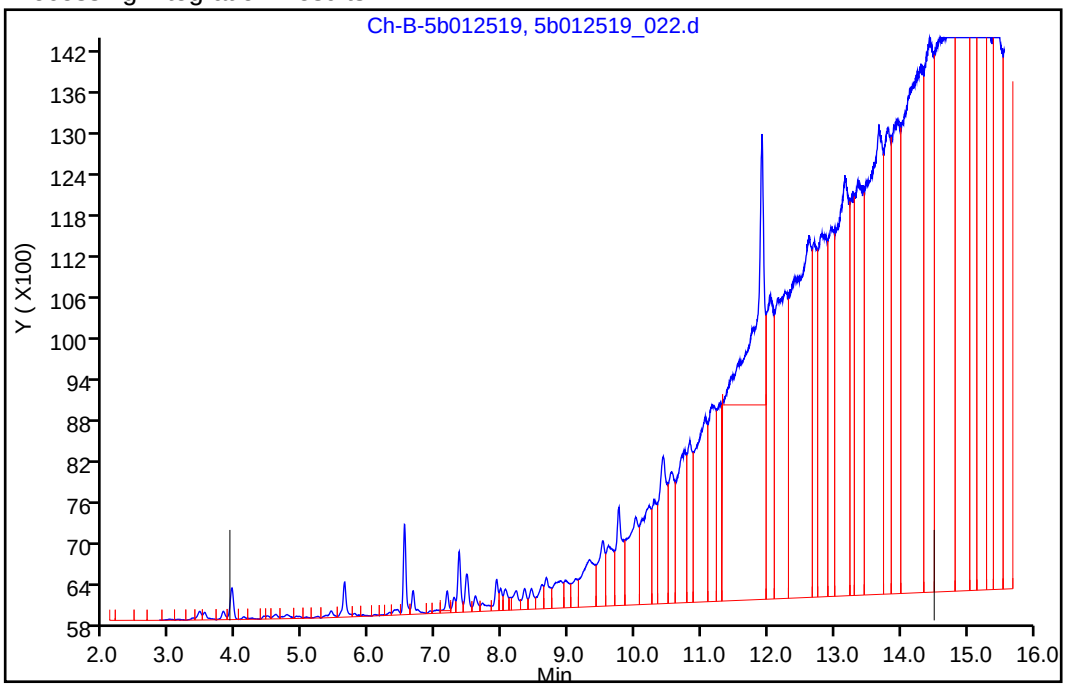
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_022.d				
Injection Date:	25-Jan-2019 16:34:37	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-1-G	Lab Sample ID:	720-90732-1		
Client ID:	DG-Q15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.198, CAS: STL00143

Signal: 1

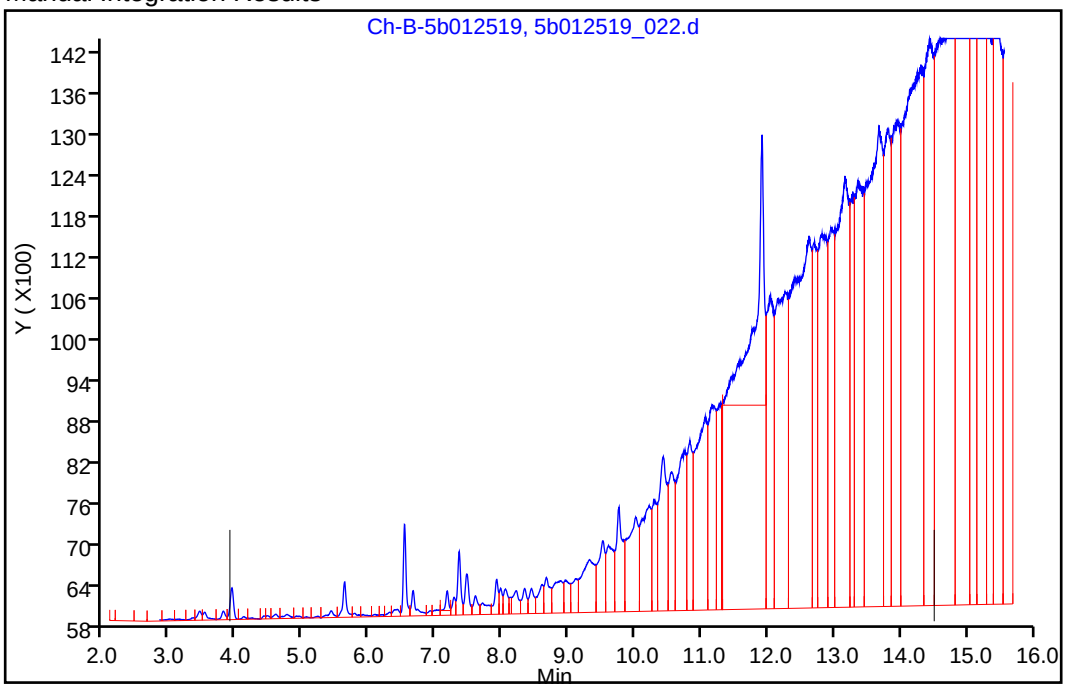
Processing Integration Results

RT: 9.20
Response: 6270779
Amount: 638.6882



Manual Integration Results

RT: 9.20
Response: 6841232
Amount: 696.7897



Reviewer: luj, 25-Jan-2019 17:36:36

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

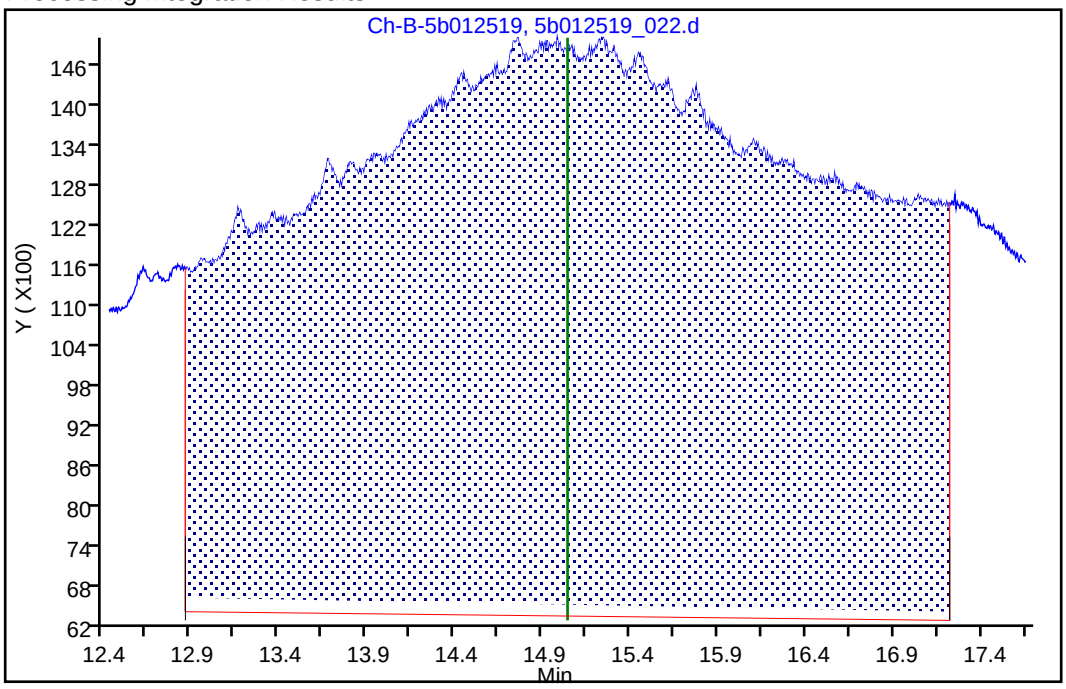
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_022.d				
Injection Date:	25-Jan-2019 16:34:37	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-1-G	Lab Sample ID:	720-90732-1		
Client ID:	DG-Q15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.042, CAS: STL00158

Signal: 1

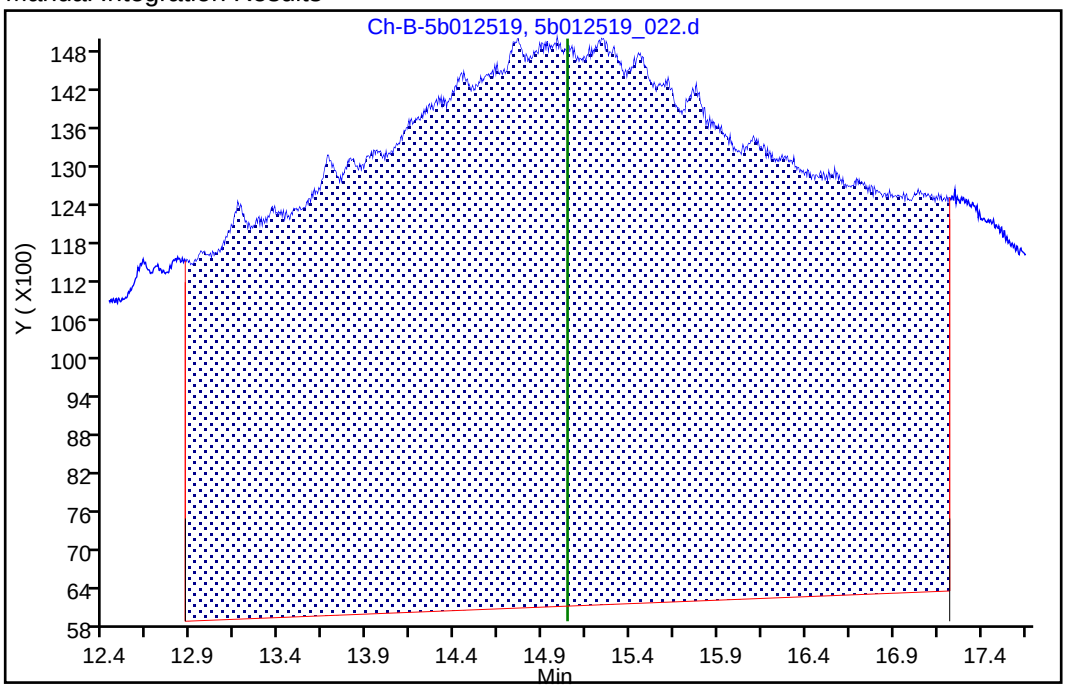
Processing Integration Results

RT: 15.04
Response: 9216176
Amount: 1614.5431



Manual Integration Results

RT: 15.04
Response: 9438221
Amount: 1653.4422



Reviewer: luj, 25-Jan-2019 17:36:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

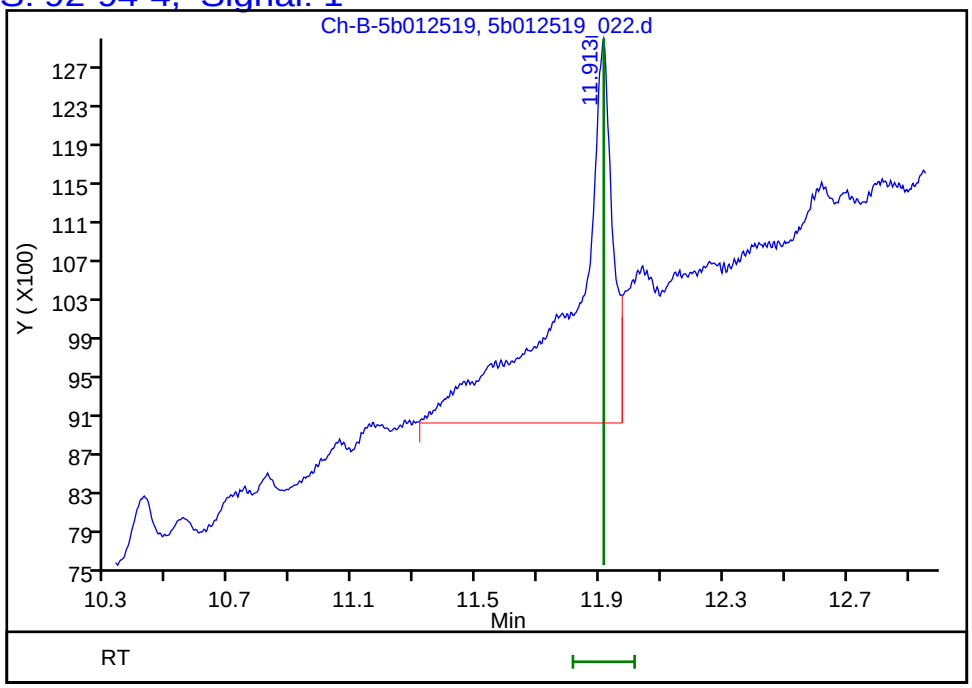
User Disabled Compound Report

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_022.d
Injection Date: 25-Jan-2019 16:34:37 Instrument ID: CHDRO5
Lims ID: 720-90732-E-1-G Lab Sample ID: 720-90732-1
Client ID: DG-Q15S-0.5-1
Operator ID: manager ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Method: DRO5B Limit Group: DRO
Column: Detector GC FID1A

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 187361
Amount: 14.866542



Reviewer: luj, 25-Jan-2019 17:36:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_023.d
Lims ID: 720-90732-E-2-I
Client ID: DG-Q15S-3.5-4
Sample Type: Client
Inject. Date: 25-Jan-2019 17:03:50 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 106 Name: 720-0056286-023
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Jan-2019 12:22:44 Calib Date: 25-Jan-2019 07:10:47
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0325

First Level Reviewer: luj Date: 28-Jan-2019 12:22:44

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.694	2.665	0.029	931	NC	
	23 n-Decane	3.917	3.888	0.029	6570	NC	
A	21 Stoddard Solvent	4.619	(2.665-6.572)		46269	4.07	
A	1 C9-C13	4.619	(2.665-6.572)		46269	3.65	
A	57 C10-C12	4.831	(3.888-5.773)		26486	2.70	
	24 Dodecane	5.773	5.773	0.000	2401	NC	
A	3 C9 - C17	5.972	(2.665-9.278)		157097	11.3	
A	47 C9 - C18	6.260	(2.665-9.854)		202687	18.1	
A	60 C10-C16	6.268	(3.888-8.648)		134551	10.9	
A	25 C9-C19	6.537	(2.665-10.408)		229563	16.4	
A	15 Kerosene	6.537	(2.665-10.408)		229563	20.4	
	26 C13	6.530	6.572	-0.042	5425	NC	
$	27 n-Decanoic Acid (Surr)		7.190			ND	U
A	59 C12-C16	7.211	(5.773-8.648)		110466	11.3	
A	62 C10-C20	7.415	(3.888-10.942)		262969	26.8	
A	28 C9-C24	7.763	(2.665-12.861)		541720	55.2	
A	29 C9-C25	7.980	(2.665-13.295)		717425	73.1	
A	54 C10-C23	8.149	(3.888-12.410)		483105	49.2	
A	4 C10-C24	8.375	(3.888-12.861)		533215	54.3	
A	16 C10-C25	8.592	(3.888-13.295)		708920	72.2	
	45 Hexadecane	8.646	8.648	-0.002	3051	NC	
A	14 C10-C26	8.801	(3.888-13.714)		865742	88.2	
A	67 C12-C22	8.857	(5.773-11.941)		348203	35.5	
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		1203463	NC	
A	32 C10-C28	9.198	(3.888-14.508)		1203463	122.6	
A	5 Diesel	9.198	(3.888-14.508)		1203463	122.6	
A	30 C13-C22	9.256	(6.572-11.941)		339949	34.6	
	44 Heptadecane	9.295	9.278	0.017	19645	NC	
A	31 C12-C24	9.317	(5.773-12.861)		509130	51.9	
	49 n-Octadecane	9.851	9.854	-0.003	8266	NC	
A	11 Bunker Range Organics (C9-	9.944	(2.665-17.223)		3377276	NC	
A	9 Crude Oil Range Organics (	9.774	(2.665-16.883)		4079271	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.944	(2.665-17.223)		4458887	410.4	
33 C19	10.408	10.408	0.000	8900	NC	
A 64 C13-C28	10.540	(6.572-14.508)		1171124	119.3	
A 17 C10-C36	10.386	(3.888-16.883)		3368771	343.1	
A 68 Crude Oil Range Organics (	10.708	(2.665-18.751)		5875559	NC	
A 13 C9-C40	10.708	(2.665-18.751)		5875559	725.7	
A 58 C16-C24	10.755	(8.648-12.861)		401715	40.9	
61 icosane	10.943	10.942	0.001	19249	NC	
A 6 C10-C40	11.320	(3.888-18.751)		5863492	724.4	
$ 34 p-Terphenyl	11.910	11.913	-0.003	143485	11.4	
35 n-Docosane		11.941			ND	
A 18 C12-C40	12.262	(5.773-18.751)		5821452	719.4	
36 Tricosane	12.406	12.410	-0.004	32830	NC	
A 66 C13-C40	12.661	(6.572-18.751)		5471454	676.7	
37 n-Tetracosane	12.861	12.861	0.000	50393	NC	
A 2 C16-C36 ORO	12.936	(8.648-17.223)		3767424	528.1	
38 C25	13.293	13.295	-0.002	52975	NC	
A 19 C16-C40	13.700	(8.648-18.751)		5639694	697.3	
46 n-Hexacosane	13.712	13.714	-0.002	73786	NC	
A 20 C19-C36	13.816	(10.408-17.223)		2394858	307.1	
A 55 C23-C32	14.178	(12.410-15.946)		2044757	497.8	
39 n-Octacosane	14.515	14.508	0.007	83155	NC	
65 C29	14.884	14.884	0.000	117748	NC	
A 7 Motor Oil	15.042	(12.861-17.223)		3232862	566.4	
A 40 C24-C36	15.042	(12.861-17.223)		3232862	566.4	
A 50 C25-C36	15.259	(13.295-17.223)		3107972	577.5	
A 10 C22-C40	15.346	(11.941-18.751)		4570411	576.9	
A 41 C23-C40	15.581	(12.410-18.751)		4627637	598.6	
A 8 C24-C40	15.806	(12.861-18.751)		4536637	608.2	
56 Dotriacontane	15.924	15.946	-0.022	114805	NC	
A 51 C28-C40	16.629	(14.508-18.751)		3853870	765.6	
A 63 C29-C40	16.818	(14.884-18.751)		3569834	797.4	
42 n-Hexatriacontane	17.285	17.223	0.062	3102706	NC	
43 C40		18.751			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

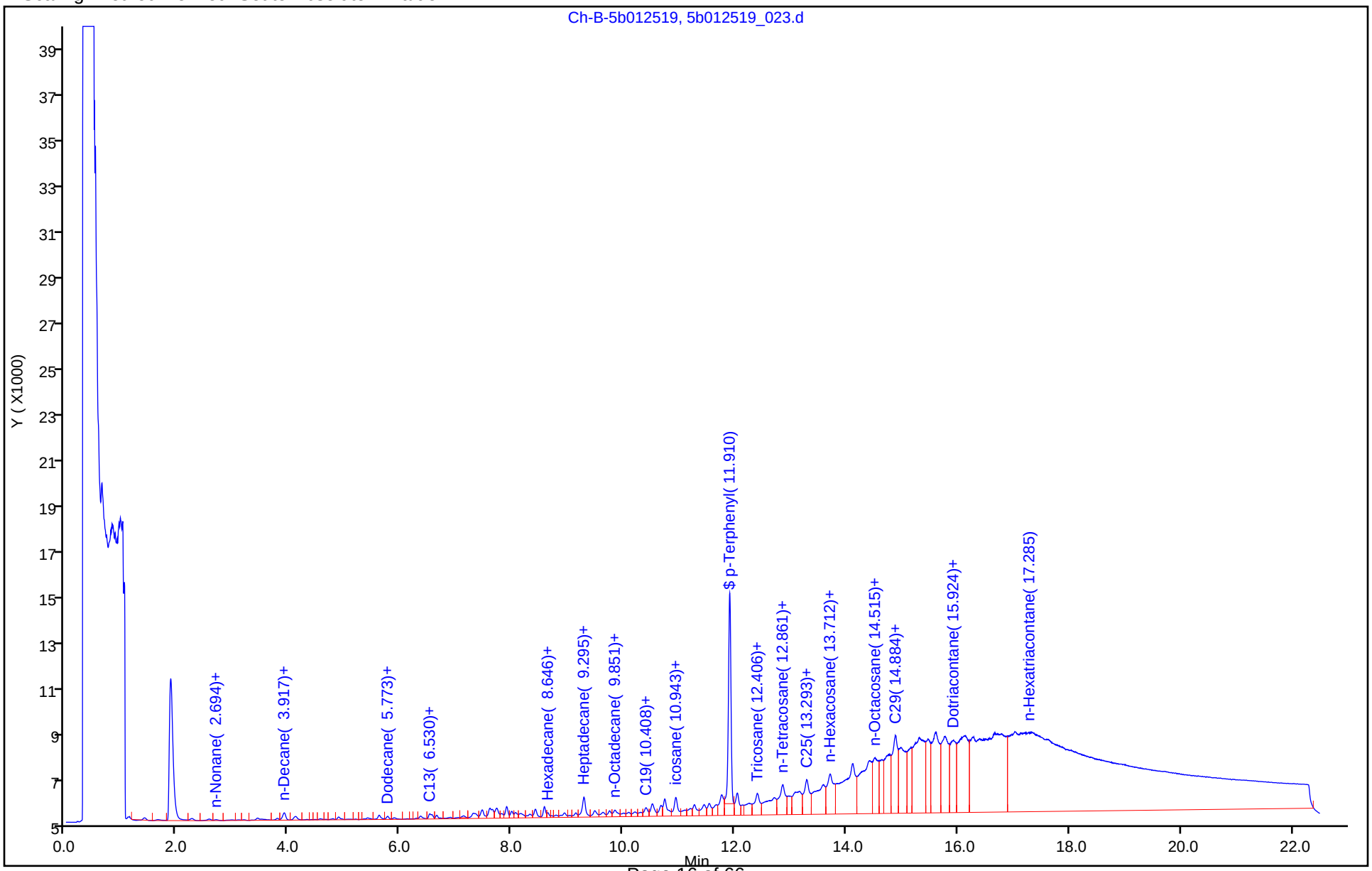
Report Date: 28-Jan-2019 12:22:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_023.d

Injection Date:	25-Jan-2019 17:03:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90732-E-2-I	Lab Sample ID:	720-90732-2	Worklist Smp#:	23
Client ID:	DG-Q15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_023.d				
Lims ID:	720-90732-E-2-I				
Client ID:	DG-Q15S-3.5-4				
Sample Type:	Client				
Inject. Date:	25-Jan-2019 17:03:50	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 106 Name: 720-0056286-023				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	28-Jan-2019 12:22:44	Calib Date:	25-Jan-2019 07:10:47		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0325				

First Level Reviewer: luj Date: 28-Jan-2019 12:22:44

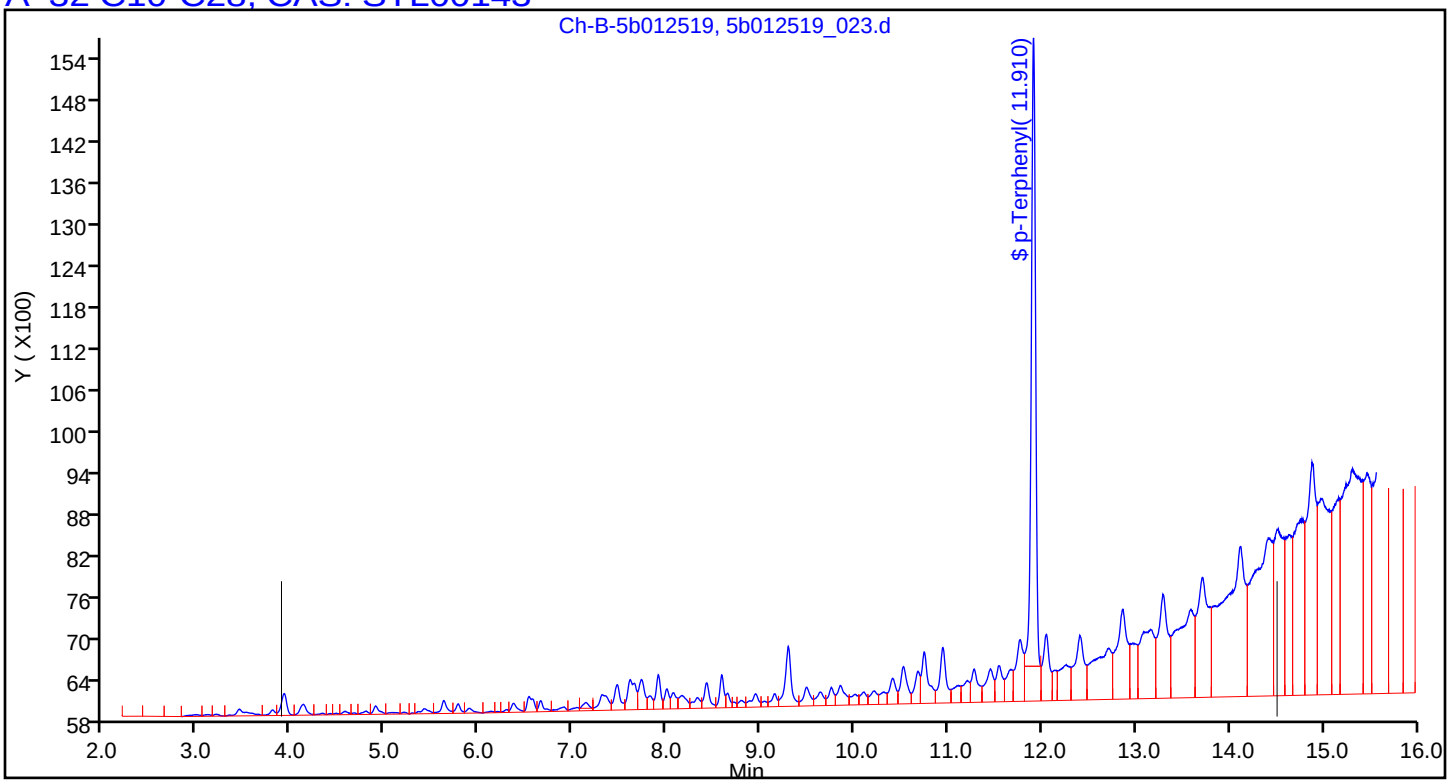
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	11.4	91.08

Report Date: 28-Jan-2019 12:22:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_023.d				
Injection Date:	25-Jan-2019 17:03:50	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-2-I	Lab Sample ID:	720-90732-2		
Client ID:	DG-Q15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

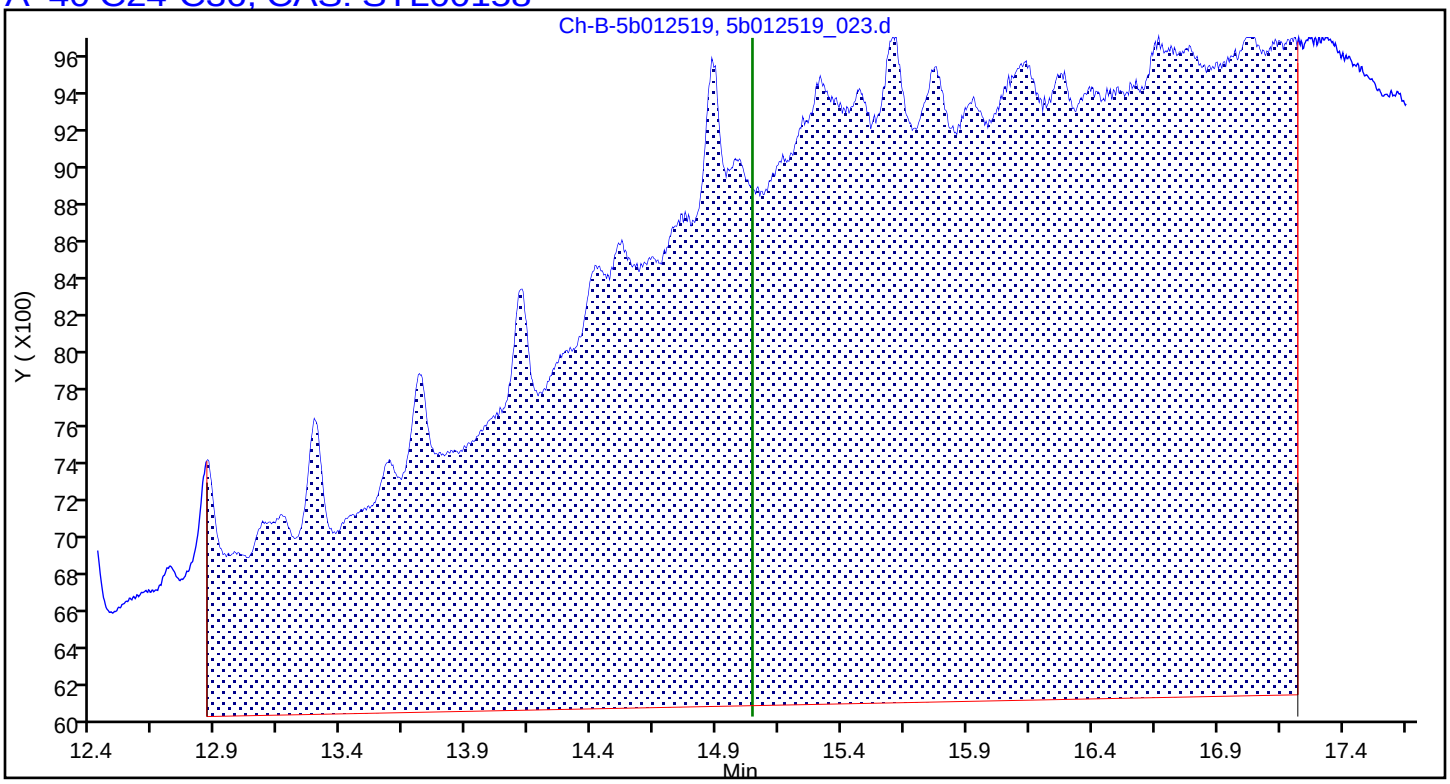


Report Date: 28-Jan-2019 12:22:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_023.d				
Injection Date:	25-Jan-2019 17:03:50	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-2-I	Lab Sample ID:	720-90732-2		
Client ID:	DG-Q15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_024.d
Lims ID: 720-90732-E-3-G
Client ID: DG-Q15S-7.5-8
Sample Type: Client
Inject. Date: 25-Jan-2019 17:33:10 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0056286-024
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Jan-2019 12:30:38 Calib Date: 25-Jan-2019 07:10:47
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0325

First Level Reviewer: luj Date: 28-Jan-2019 12:30:38

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.741	2.665	0.076	509	NC	
23 n-Decane	3.921	3.888	0.033	1379	NC	
A 21 Stoddard Solvent	4.619	(2.665-6.572)		16191	1.42	
A 1 C9-C13	4.619	(2.665-6.572)		16191	1.28	
A 57 C10-C12	4.831	(3.888-5.773)		10048	1.02	
24 Dodecane	5.853	5.773	0.080	589	NC	
A 3 C9 - C17	5.972	(2.665-9.278)		30790	2.21	
A 47 C9 - C18	6.260	(2.665-9.854)		35620	3.17	
A 60 C10-C16	6.268	(3.888-8.648)		24185	1.96	
A 25 C9-C19	6.537	(2.665-10.408)		40918	2.93	
A 15 Kerosene	6.537	(2.665-10.408)		40918	3.64	
26 C13	6.552	6.572	-0.020	480	NC	
$ 27 n-Decanoic Acid (Surr)		7.190			ND	U
A 59 C12-C16	7.211	(5.773-8.648)		16018	1.63	
A 62 C10-C20	7.415	(3.888-10.942)		48059	4.89	
A 28 C9-C24	7.763	(2.665-12.861)		90150	9.18	
A 29 C9-C25	7.980	(2.665-13.295)		103982	10.6	
A 54 C10-C23	8.149	(3.888-12.410)		62504	6.37	
A 4 C10-C24	8.375	(3.888-12.861)		86490	8.81	
A 16 C10-C25	8.592	(3.888-13.295)		100322	10.2	
45 Hexadecane	8.650	8.648	0.002	627	NC	
A 14 C10-C26	8.801	(3.888-13.714)		162308	16.5	
A 67 C12-C22	8.857	(5.773-11.941)		48337	4.92	
A 12 Unknown Hydrocarbons	9.198	(3.888-14.508)		208025	NC	
A 32 C10-C28	9.198	(3.888-14.508)		208025	21.2	
A 5 Diesel	9.198	(3.888-14.508)		208025	21.2	
A 30 C13-C22	9.256	(6.572-11.941)		44453	4.53	
44 Heptadecane	9.293	9.278	0.015	2271	NC	
A 31 C12-C24	9.317	(5.773-12.861)		78323	7.98	
49 n-Octadecane	9.894	9.854	0.040	1198	NC	
A 11 Bunker Range Organics (C9-	9.944	(2.665-17.223)		1372214	NC	
A 9 Crude Oil Range Organics (	9.944	(2.665-17.223)		1313911	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.944	(2.665-17.223)		1313911	120.9	
33 C19	10.411	10.408	0.003	368	NC	
A 64 C13-C28	10.540	(6.572-14.508)		195974	20.0	
A 17 C10-C36	10.556	(3.888-17.223)		1368554	139.4	
A 68 Crude Oil Range Organics (	10.708	(2.665-18.751)		2030175	NC	
A 13 C9-C40	10.708	(2.665-18.751)		2030175	221.8	
A 58 C16-C24	10.755	(8.648-12.861)		62305	6.35	
61 icosane	10.906	10.942	-0.036	1612	NC	
A 6 C10-C40	11.320	(3.888-18.751)		2024294	221.3	
$ 34 p-Terphenyl	11.913	11.913	0.000	317769	25.2	
35 n-Docosane		11.941			ND	
A 18 C12-C40	12.262	(5.773-18.751)		2006607	219.5	
36 Tricosane	12.408	12.410	-0.002	4140	NC	
A 66 C13-C40	12.661	(6.572-18.751)		1942144	213.3	
37 n-Tetracosane	12.854	12.861	-0.007	12466	NC	
A 2 C16-C36 ORO	12.936	(8.648-17.223)		1134376	159.0	
38 C25	13.292	13.295	-0.003	10324	NC	
A 19 C16-C40	13.700	(8.648-18.751)		1971618	216.0	
46 n-Hexacosane	13.701	13.714	-0.013	34183	NC	
A 20 C19-C36	13.816	(10.408-17.223)		822017	105.4	
A 55 C23-C32	14.178	(12.410-15.946)		462588	112.6	
39 n-Octacosane	14.508	14.508	0.000	66778	NC	
65 C29	14.877	14.884	-0.007	32453	NC	
A 7 Motor Oil	15.042	(12.861-17.223)		875533	153.4	
A 40 C24-C36	15.042	(12.861-17.223)		875533	153.4	
A 50 C25-C36	15.259	(13.295-17.223)		858623	159.6	
A 10 C22-C40	15.346	(11.941-18.751)		1252445	158.1	
A 41 C23-C40	15.581	(12.410-18.751)		1538622	199.0	
A 8 C24-C40	15.806	(12.861-18.751)		1518517	203.6	
56 Dotriacontane	15.896	15.946	-0.050	38548	NC	
A 51 C28-C40	16.629	(14.508-18.751)		1350682	244.3	
A 63 C29-C40	16.818	(14.884-18.751)		1275540	257.9	
42 n-Hexatriacontane	17.221	17.223	-0.002	615069	NC	
43 C40		18.751			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

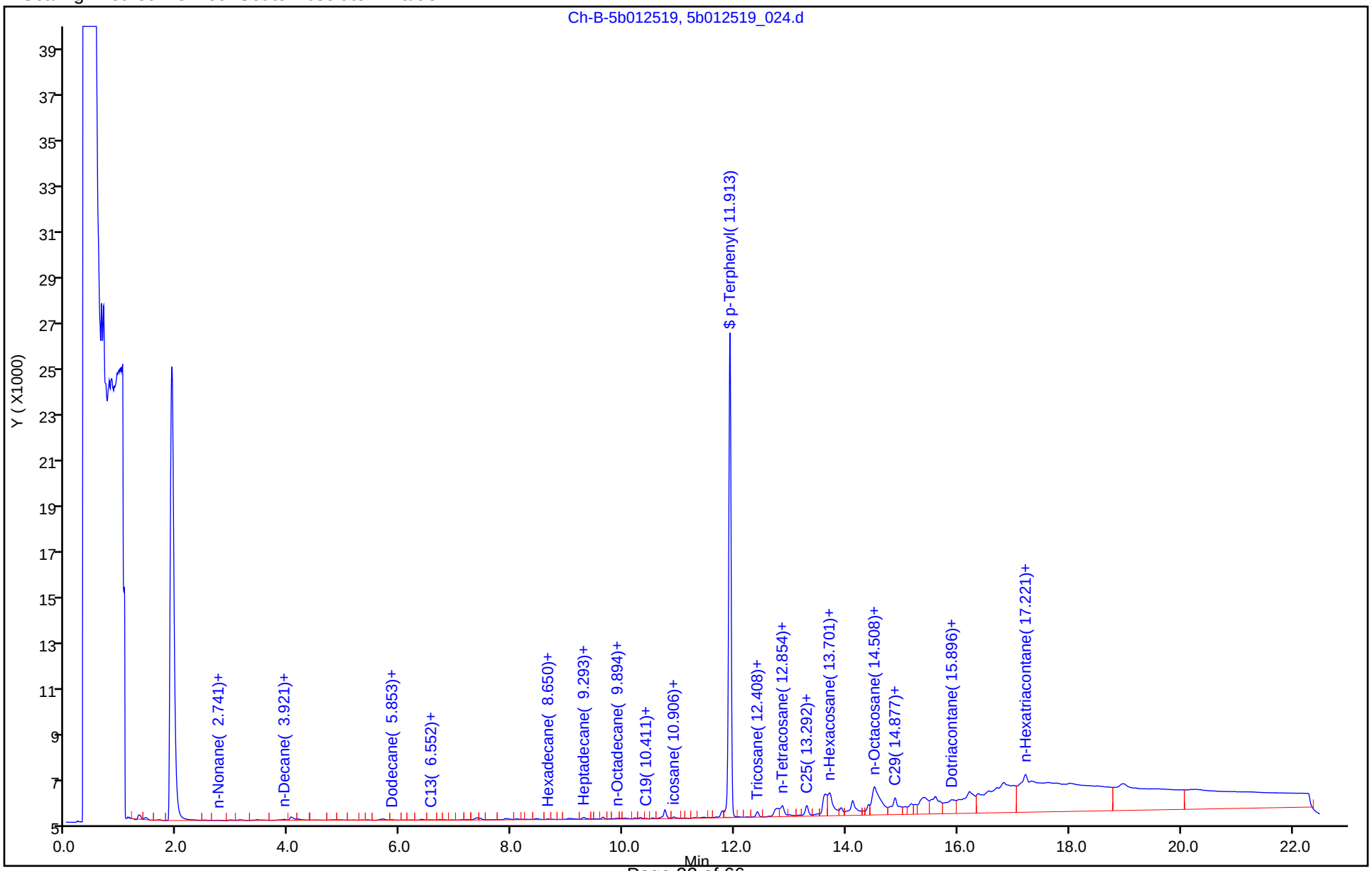
Report Date: 28-Jan-2019 12:30:39 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_024.d

Injection Date:	25-Jan-2019 17:33:10	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90732-E-3-G	Lab Sample ID:	720-90732-3	Worklist Smp#:	24
Client ID:	DG-Q15S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_024.d				
Lims ID:	720-90732-E-3-G				
Client ID:	DG-Q15S-7.5-8				
Sample Type:	Client				
Inject. Date:	25-Jan-2019 17:33:10	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0056286-024				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	28-Jan-2019 12:30:38	Calib Date:	25-Jan-2019 07:10:47		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0325				

First Level Reviewer: luj Date: 28-Jan-2019 12:30:38

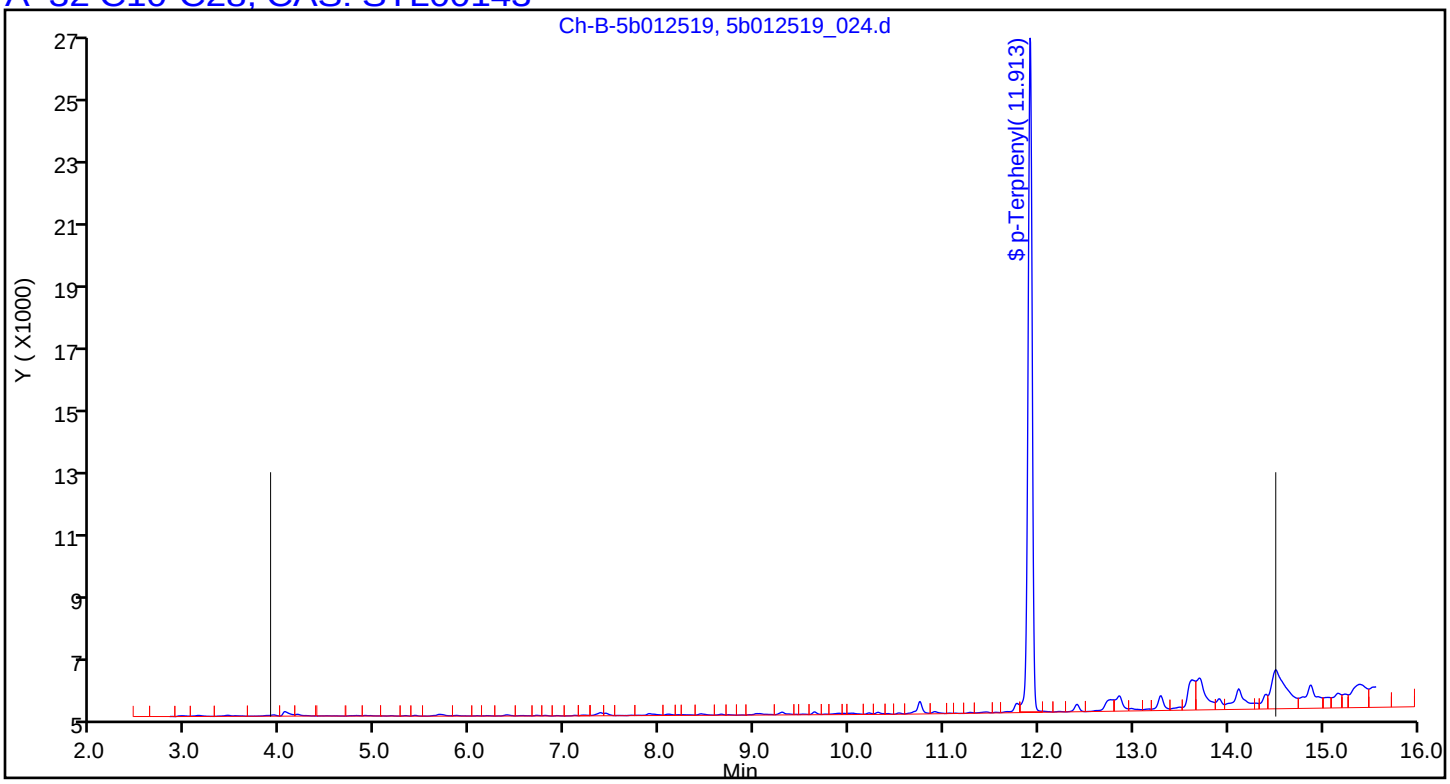
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.2	100.86

Report Date: 28-Jan-2019 12:30:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_024.d				
Injection Date:	25-Jan-2019 17:33:10	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-3-G	Lab Sample ID:	720-90732-3		
Client ID:	DG-Q15S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

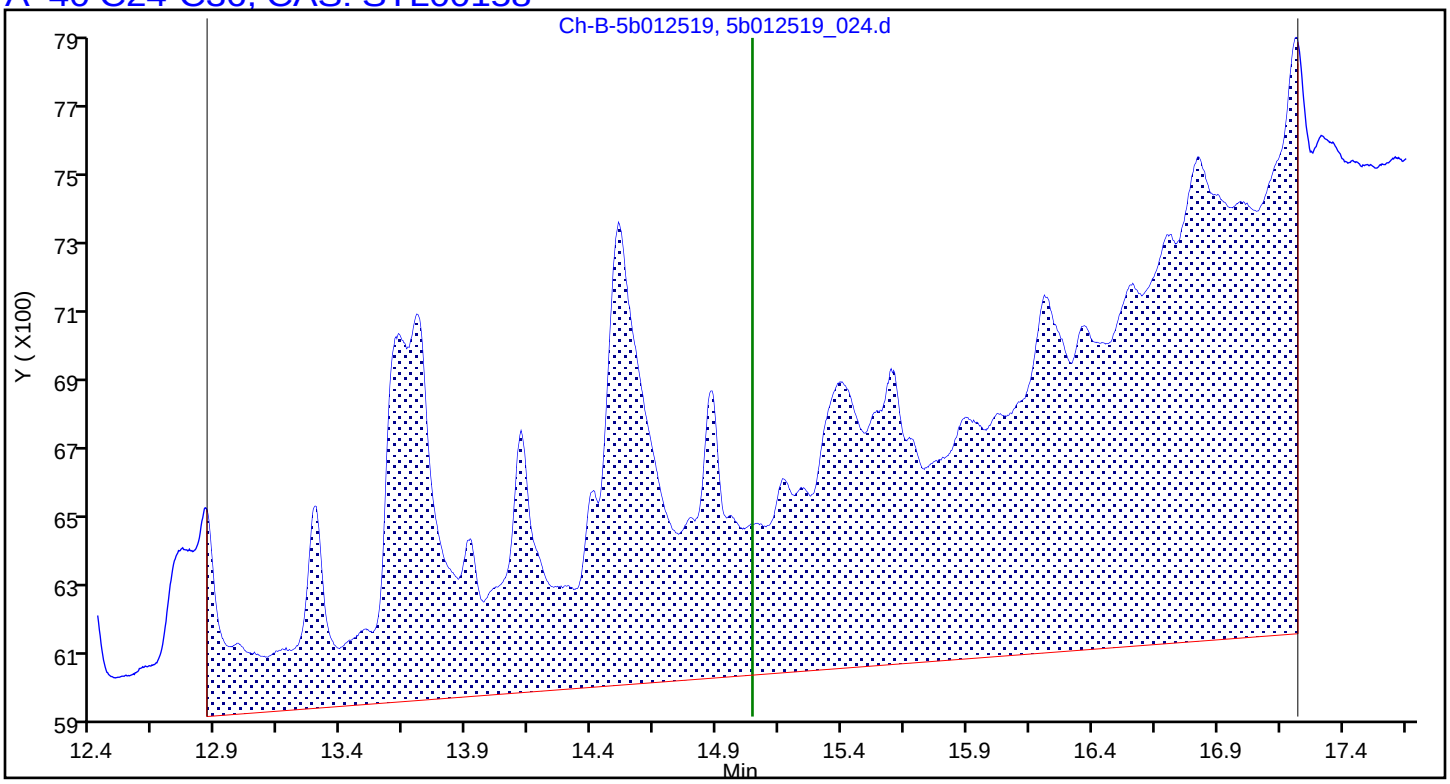


Report Date: 28-Jan-2019 12:30:41 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_024.d				
Injection Date:	25-Jan-2019 17:33:10	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-3-G	Lab Sample ID:	720-90732-3		
Client ID:	DG-Q15S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_026.d
Lims ID: 720-90732-E-4-G
Client ID: DUP-106
Sample Type: Client
Inject. Date: 25-Jan-2019 18:31:59 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 106 Name: 720-0056286-026
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Jan-2019 12:32:02 Calib Date: 25-Jan-2019 07:10:47
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0325

First Level Reviewer: luj Date: 28-Jan-2019 12:32:02

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.699	2.665	0.034	482	NC	
23 n-Decane	3.917	3.888	0.029	6177	NC	
A 21 Stoddard Solvent	4.619	(2.665-6.572)		32211	2.83	M
A 1 C9-C13	4.619	(2.665-6.572)		32211	2.54	M
A 57 C10-C12	4.831	(3.888-5.773)		15727	1.60	M
24 Dodecane	5.773	5.773	0.000	849	NC	M
A 3 C9 - C17	5.972	(2.665-9.278)		136802	9.80	M
A 47 C9 - C18	6.260	(2.665-9.854)		262106	23.4	M
A 60 C10-C16	6.268	(3.888-8.648)		95943	7.79	M
A 25 C9-C19	6.537	(2.665-10.408)		381381	27.3	M
A 15 Kerosene	6.537	(2.665-10.408)		381381	33.9	M
26 C13	6.527	6.572	-0.045	8622	NC	M
$ 27 n-Decanoic Acid (Surr)		7.190			ND	U
A 59 C12-C16	7.211	(5.773-8.648)		80216	8.17	M
A 62 C10-C20	7.415	(3.888-10.942)		643025	65.5	M
A 28 C9-C24	7.763	(2.665-12.861)		2397372	244.2	M
A 29 C9-C25	7.980	(2.665-13.295)		2809464	286.1	M
A 54 C10-C23	8.149	(3.888-12.410)		1757480	179.0	M
A 4 C10-C24	8.375	(3.888-12.861)		2392716	243.7	M
A 16 C10-C25	8.592	(3.888-13.295)		2804808	285.7	M
45 Hexadecane	8.660	8.648	0.012	10078	NC	M
A 14 C10-C26	8.801	(3.888-13.714)		3505688	357.1	M
A 67 C12-C22	8.857	(5.773-11.941)		1267852	129.1	M
A 12 Unknown Hydrocarbons	9.198	(3.888-14.508)		4663393	NC	M
A 32 C10-C28	9.198	(3.888-14.508)		4663393	475.0	M
A 5 Diesel	9.198	(3.888-14.508)		4663393	475.0	M
A 30 C13-C22	9.256	(6.572-11.941)		1264646	128.8	M
44 Heptadecane	9.313	9.278	0.035	45797	NC	M
A 31 C12-C24	9.317	(5.773-12.861)		2376989	242.1	M
49 n-Octadecane		9.854			ND	
A 11 Bunker Range Organics (C9-	9.944	(2.665-17.223)		8515244	NC	M
A 9 Crude Oil Range Organics (	9.761	(2.665-16.857)		8990906	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.944	(2.665-17.223)		9558573	879.9	
33 C19	10.423	10.408	0.015	88760	NC	M
A 64 C13-C28	10.540	(6.572-14.508)		4644460	473.0	M
A 17 C10-C36	10.372	(3.888-16.857)		8510588	866.8	M
A 68 Crude Oil Range Organics (	10.708	(2.665-18.751)		11540401	NC	
A 13 C9-C40	10.708	(2.665-18.751)		11540401	1468.1	
A 58 C16-C24	10.755	(8.648-12.861)		2296773	233.9	M
61 icosane		10.942			ND	
A 6 C10-C40	11.320	(3.888-18.751)		11533966	1467.5	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane		11.941			ND	
A 18 C12-C40	12.262	(5.773-18.751)		11507454	1464.5	
36 Tricosane	12.437	12.410	0.027	176460	NC	M
A 66 C13-C40	12.661	(6.572-18.751)		11215784	1430.7	
37 n-Tetracosane	12.830	12.861	-0.031	172895	NC	M
A 2 C16-C36 ORO	12.936	(8.648-17.223)		7479202	1048.4	
38 C25	13.353	13.295	0.058	285208	NC	M
A 19 C16-C40	13.700	(8.648-18.751)		11363216	1448.4	
46 n-Hexacosane	13.683	13.714	-0.031	311112	NC	M
A 20 C19-C36	13.816	(10.408-17.223)		6708430	860.3	
A 55 C23-C32	14.178	(12.410-15.946)		5129088	1248.7	
39 n-Octacosane	14.450	14.508	-0.058	205169	NC	M
65 C29	14.887	14.884	0.003	193695	NC	M
A 7 Motor Oil	15.042	(12.861-17.223)		6480729	1135.3	
A 40 C24-C36	15.042	(12.861-17.223)		6480729	1135.3	
A 50 C25-C36	15.259	(13.295-17.223)		5968122	1109.0	
A 10 C22-C40	15.346	(11.941-18.751)		9201104	1161.5	
A 41 C23-C40	15.581	(12.410-18.751)		8769079	1134.3	
A 8 C24-C40	15.806	(12.861-18.751)		8294013	1112.0	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.629	(14.508-18.751)		6051470	1223.3	
A 63 C29-C40	16.818	(14.884-18.751)		5409154	1229.8	
42 n-Hexatriacontane	17.320	17.223	0.097	4688457	NC	M
43 C40		18.751			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

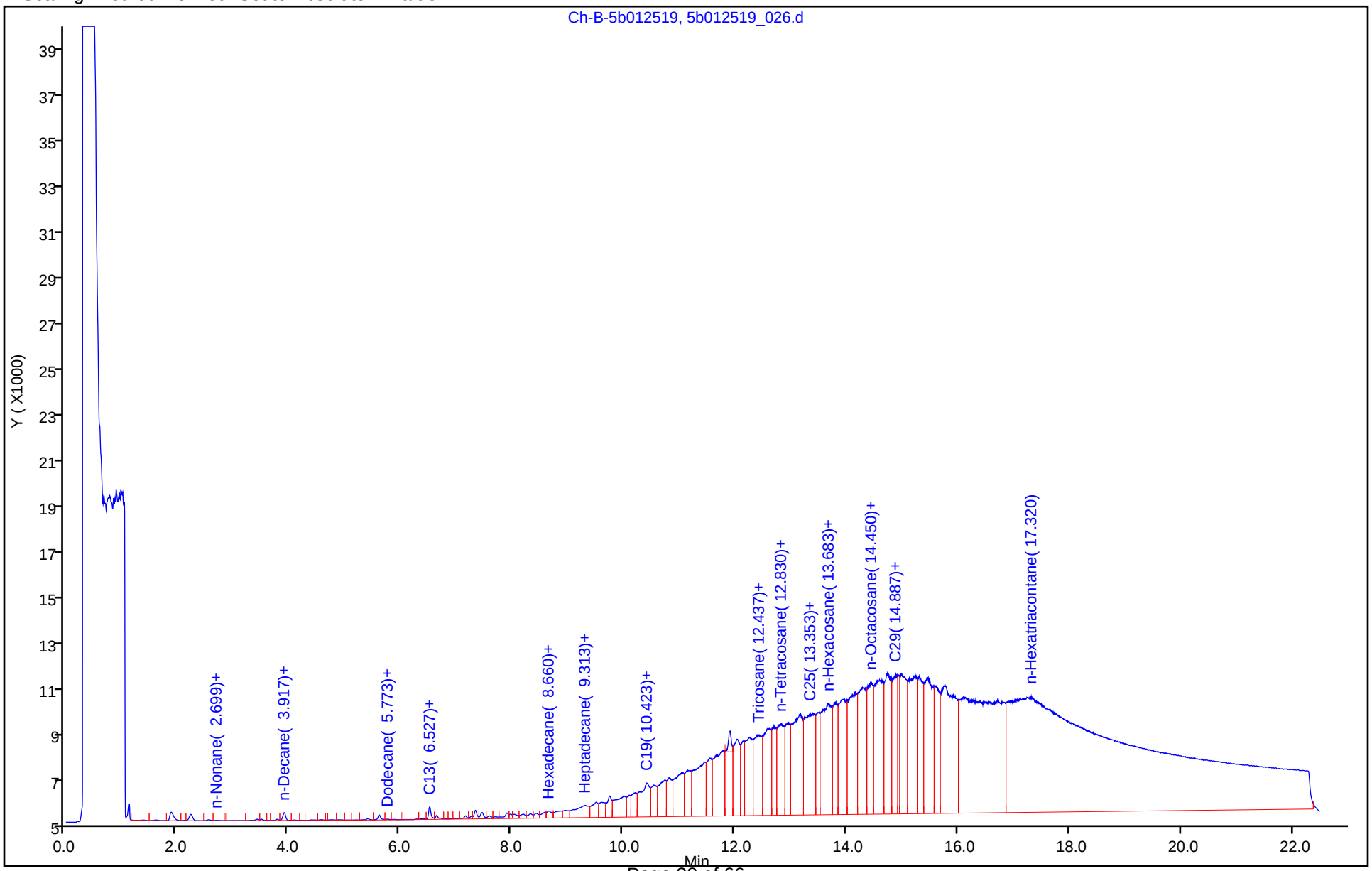
Report Date: 28-Jan-2019 12:32:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_026.d

Injection Date:	25-Jan-2019 18:31:59	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90732-E-4-G	Lab Sample ID:	720-90732-4	Worklist Smp#:	26
Client ID:	DUP-106				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

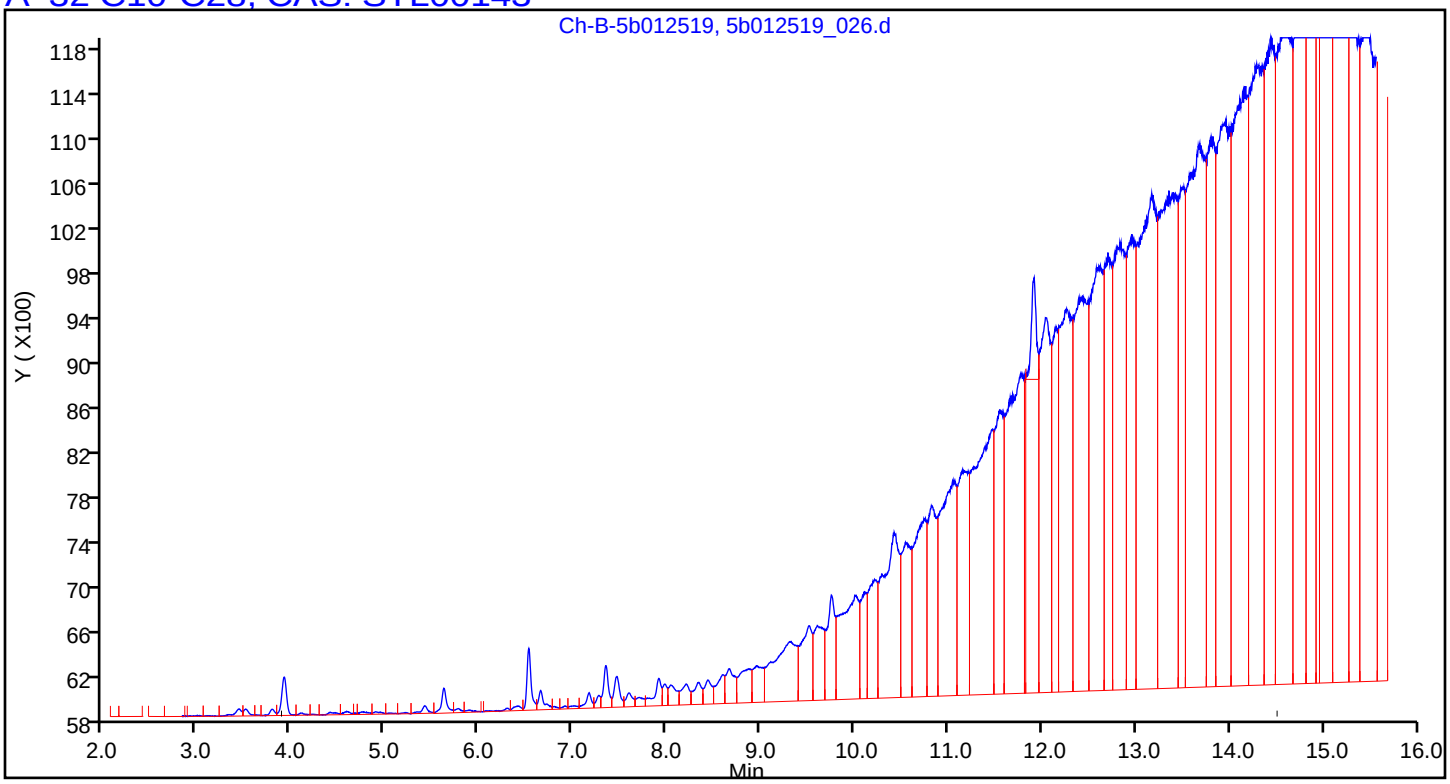


Report Date: 28-Jan-2019 12:32:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_026.d				
Injection Date:	25-Jan-2019 18:31:59	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-4-G	Lab Sample ID:	720-90732-4		
Client ID:	DUP-106				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

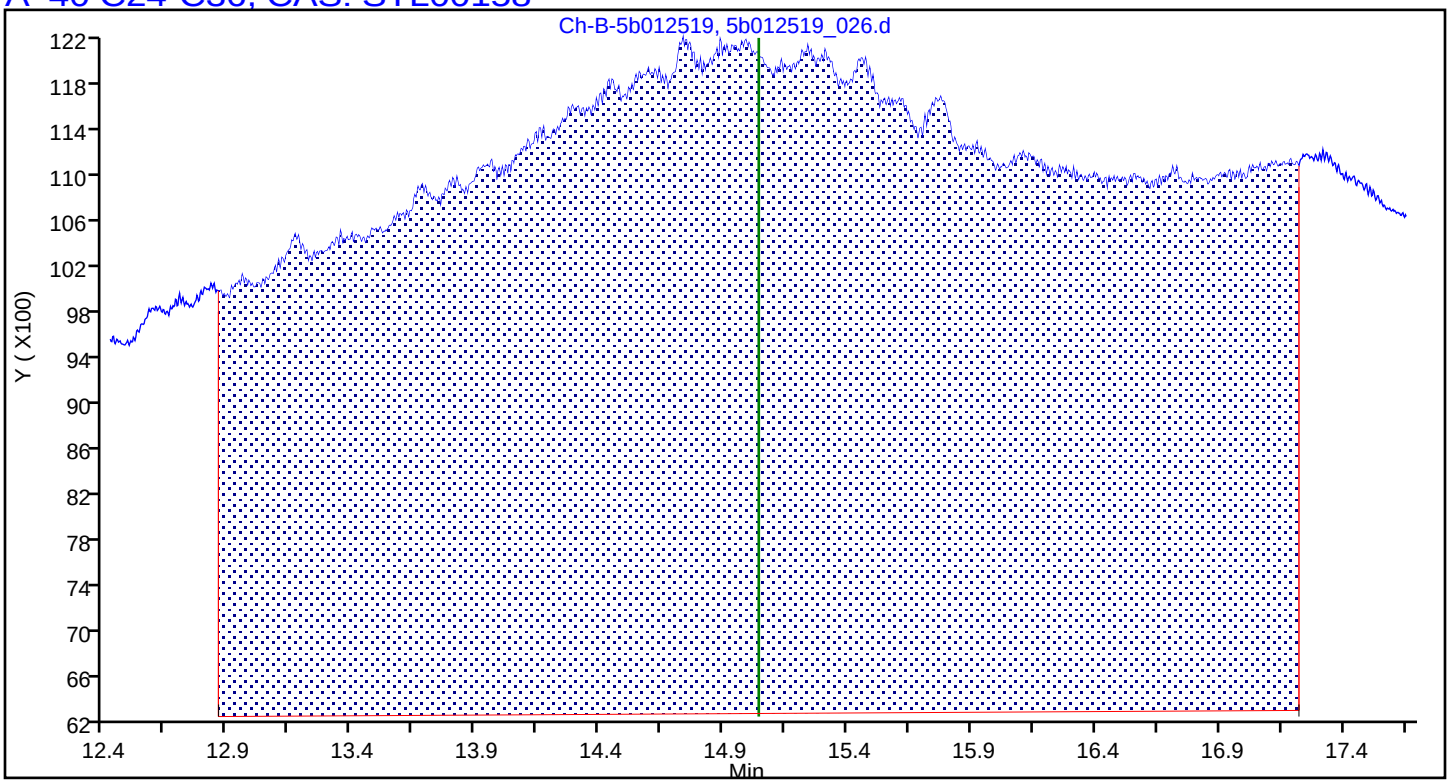


Report Date: 28-Jan-2019 12:32:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_026.d				
Injection Date:	25-Jan-2019 18:31:59	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-4-G	Lab Sample ID:	720-90732-4		
Client ID:	DUP-106				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

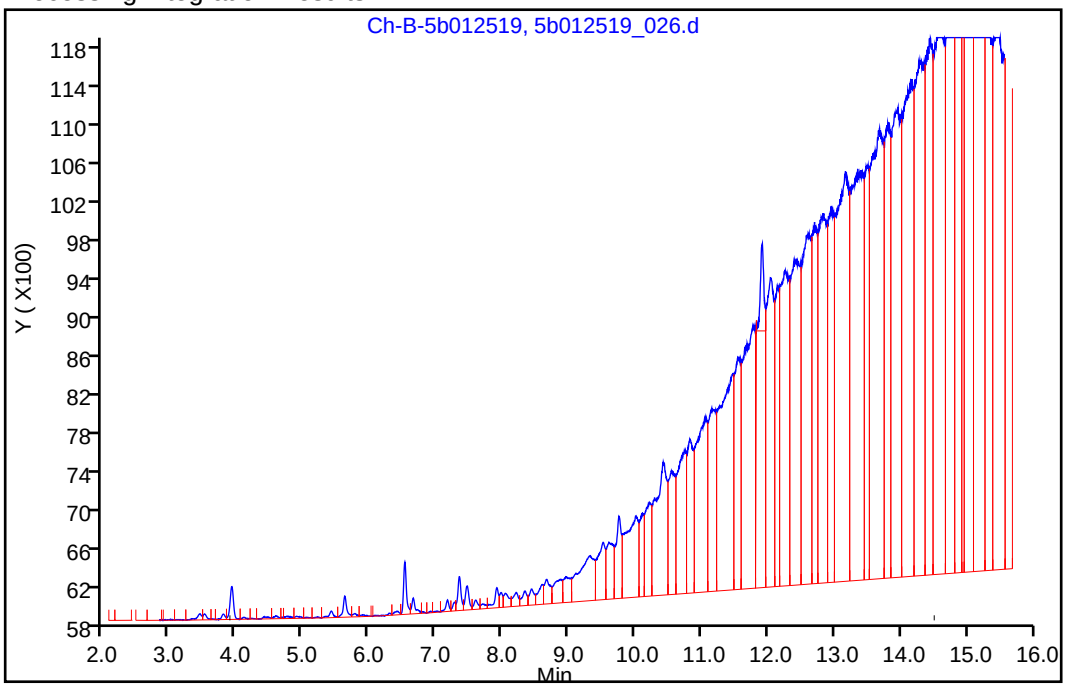
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Injection Date:	25-Jan-2019 18:31:59	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-4-G	Lab Sample ID:	720-90732-4		
Client ID:	DUP-106				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.198, CAS: STL00143

Signal: 1

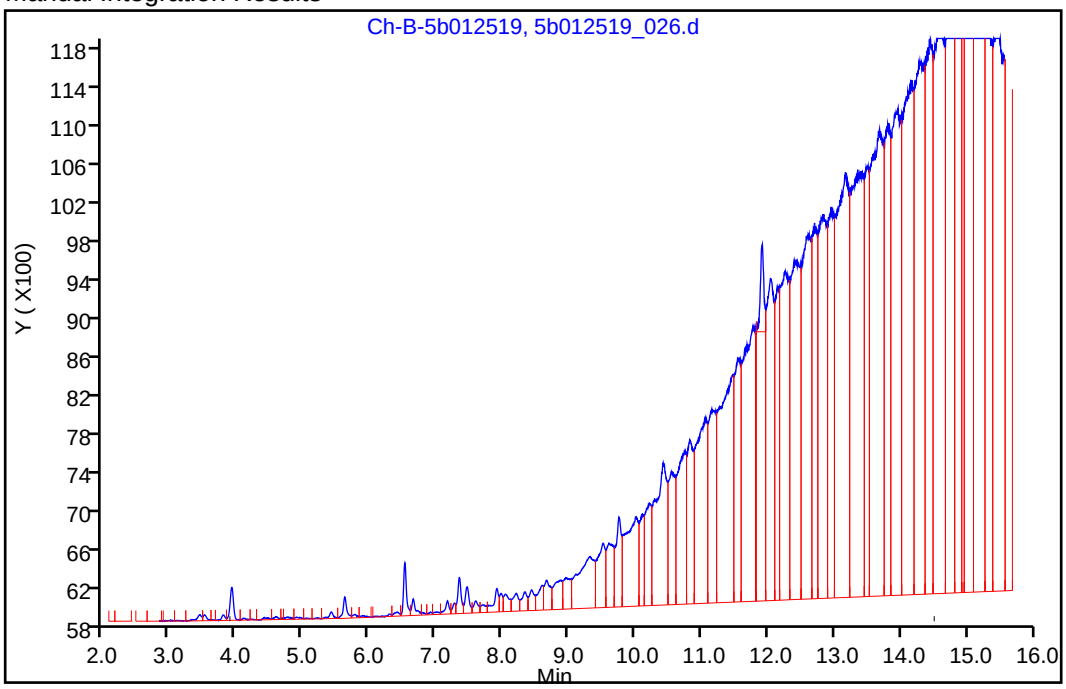
Processing Integration Results

RT: 9.20
Response: 4327435
Amount: 440.7557



Manual Integration Results

RT: 9.20
Response: 4663393
Amount: 474.9736



Reviewer: luj, 28-Jan-2019 12:31:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

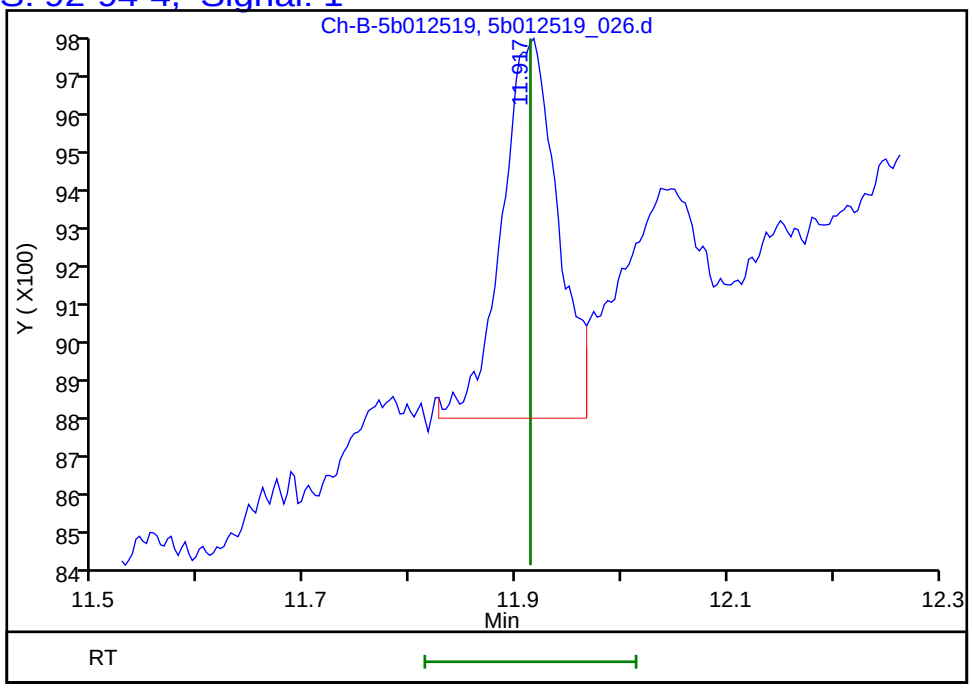
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_026.d				
Injection Date:	25-Jan-2019 18:31:59	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-4-G	Lab Sample ID:	720-90732-4		
Client ID:	DUP-106				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.92
Response: 16452
Amount: 1.305418



Reviewer: luj, 28-Jan-2019 12:32:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_025.d
Lims ID: 720-90732-E-5-G
Client ID: DG-S15S-0.5-1
Sample Type: Client
Inject. Date: 25-Jan-2019 18:02:22 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 106 Name: 720-0056286-025
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m
Limit Group: DRO
Last Update: 28-Jan-2019 12:31:22 Calib Date: 25-Jan-2019 07:10:47
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0325

First Level Reviewer: luj Date: 28-Jan-2019 12:31:22

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.706	2.665	0.041	627	NC	
	23 n-Decane	3.919	3.888	0.030	5533	NC	
A	21 Stoddard Solvent	4.619	(2.665-6.572)		23984	2.11	M
A	1 C9-C13	4.619	(2.665-6.572)		23984	1.89	M
A	57 C10-C12	4.831	(3.888-5.773)		14601	1.49	M
	24 Dodecane	5.773	5.773	0.000	1296	NC	M
A	3 C9 - C17	5.972	(2.665-9.278)		111592	8.00	M
A	47 C9 - C18	6.260	(2.665-9.854)		247069	22.0	M
A	60 C10-C16	6.268	(3.888-8.648)		67706	5.50	M
A	25 C9-C19	6.537	(2.665-10.408)		456695	32.7	M
A	15 Kerosene	6.537	(2.665-10.408)		456695	40.6	M
	26 C13	6.527	6.572	-0.045	1612	NC	M
$	27 n-Decanoic Acid (Surr)		7.190			ND	U
A	59 C12-C16	7.211	(5.773-8.648)		53105	5.41	M
A	62 C10-C20	7.415	(3.888-10.942)		918648	93.6	M
A	28 C9-C24	7.763	(2.665-12.861)		3560871	362.7	M
A	29 C9-C25	7.980	(2.665-13.295)		4385334	446.7	M
A	54 C10-C23	8.149	(3.888-12.410)		2812463	286.5	M
A	4 C10-C24	8.375	(3.888-12.861)		3557922	362.4	M
A	16 C10-C25	8.592	(3.888-13.295)		4382385	446.4	M
	45 Hexadecane		8.648			ND	
A	14 C10-C26	8.801	(3.888-13.714)		5143863	523.9	M
A	67 C12-C22	8.857	(5.773-11.941)		2056729	209.5	M
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		7132352	NC	M
A	32 C10-C28	9.198	(3.888-14.508)		7132352	726.4	M
A	5 Diesel	9.198	(3.888-14.508)		7132352	726.4	M
A	30 C13-C22	9.256	(6.572-11.941)		2051907	209.0	M
	44 Heptadecane	9.293	9.278	0.015	51120	NC	M
A	31 C12-C24	9.317	(5.773-12.861)		3543321	360.9	M
	49 n-Octadecane		9.854			ND	
A	11 Bunker Range Organics (C9-	9.944	(2.665-17.223)		13779691	NC	M
A	9 Crude Oil Range Organics (	9.828	(2.665-16.990)		14295361	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.944	(2.665-17.223)		14862324	1368.1	
33 C19		10.408			ND	
A 64 C13-C28	10.540	(6.572-14.508)		7112929	724.5	M
A 17 C10-C36	10.439	(3.888-16.990)		13776742	1403.2	M
A 68 Crude Oil Range Organics (	10.708	(2.665-18.751)		17743512	NC	
A 13 C9-C40	10.708	(2.665-18.751)		17743512	2281.0	
A 58 C16-C24	10.755	(8.648-12.861)		3490216	355.5	M
61 icosane		10.942			ND	
A 6 C10-C40	11.320	(3.888-18.751)		17737774	2280.4	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane		11.941			ND	
A 18 C12-C40	12.262	(5.773-18.751)		17713915	2277.8	
36 Tricosane	12.433	12.410	0.023	247628	NC	M
A 66 C13-C40	12.661	(6.572-18.751)		17401250	2242.7	
37 n-Tetracosane	12.867	12.861	0.006	219567	NC	M
A 2 C16-C36 ORO	12.936	(8.648-17.223)		11595746	1625.4	
38 C25		13.295			ND	
A 19 C16-C40	13.700	(8.648-18.751)		17586326	2265.0	
46 n-Hexacosane		13.714			ND	
A 20 C19-C36	13.816	(10.408-17.223)		11653009	1494.4	
A 55 C23-C32	14.178	(12.410-15.946)		8098052	1971.5	
39 n-Octacosane	14.453	14.508	-0.055	426592	NC	M
65 C29	14.907	14.884	0.023	334207	NC	M
A 7 Motor Oil	15.042	(12.861-17.223)		10386694	1819.6	
A 40 C24-C36	15.042	(12.861-17.223)		10386694	1819.6	
A 50 C25-C36	15.259	(13.295-17.223)		9624353	1788.4	
A 10 C22-C40	15.346	(11.941-18.751)		14512431	1831.9	
A 41 C23-C40	15.581	(12.410-18.751)		13821952	1787.8	
A 8 C24-C40	15.806	(12.861-18.751)		13092697	1755.3	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.629	(14.508-18.751)		9729965	1989.5	
A 63 C29-C40	16.818	(14.884-18.751)		8693139	2001.9	
42 n-Hexatriacontane	17.293	17.223	0.070	6103789	NC	M
43 C40		18.751			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

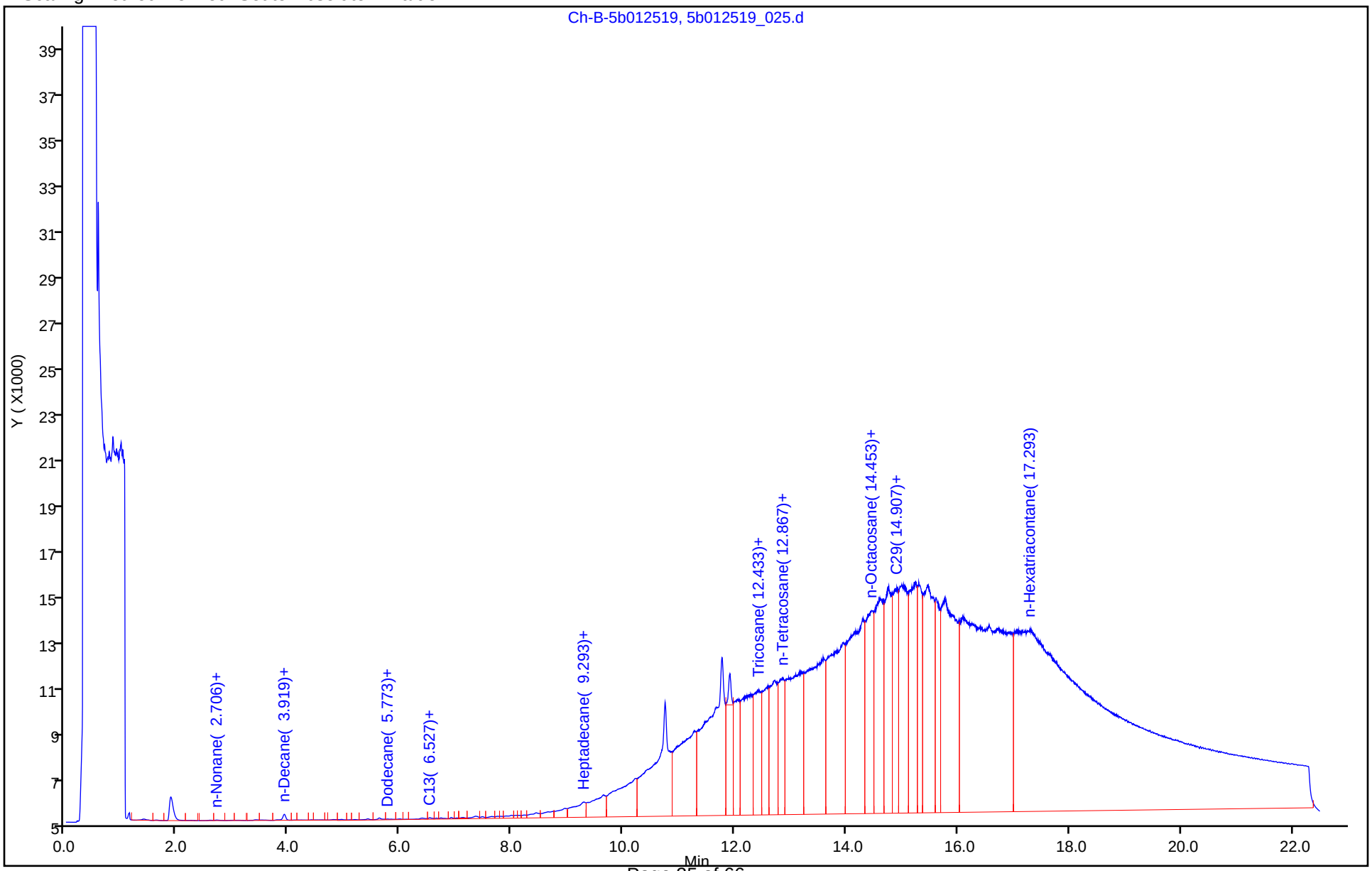
U - Marked Undetected

Report Date: 28-Jan-2019 12:31:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_025.d				
Injection Date:	25-Jan-2019 18:02:22	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90732-E-5-G	Lab Sample ID:	720-90732-5	Worklist Smp#:	25
Client ID:	DG-S15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

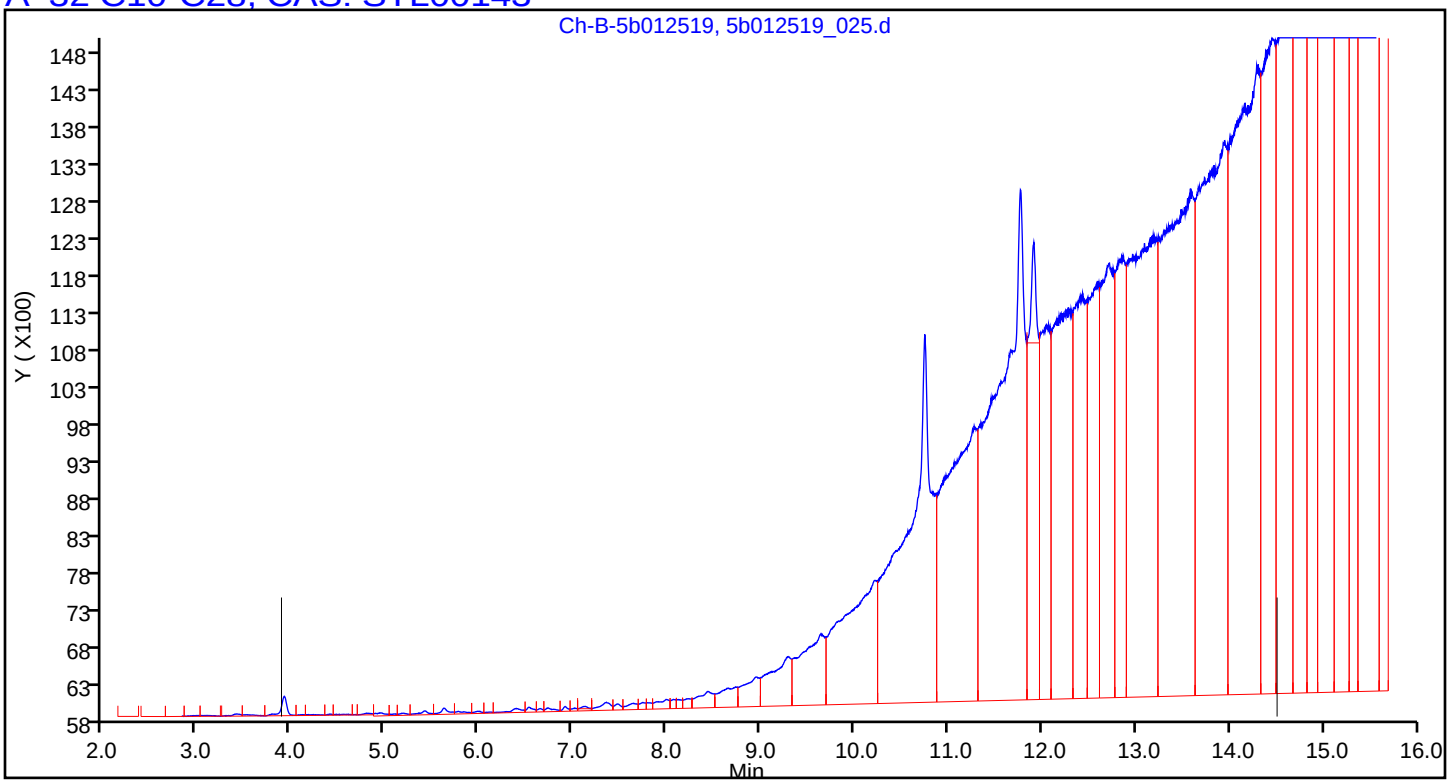


Report Date: 28-Jan-2019 12:31:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_025.d				
Injection Date:	25-Jan-2019 18:02:22	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-5-G	Lab Sample ID:	720-90732-5		
Client ID:	DG-S15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

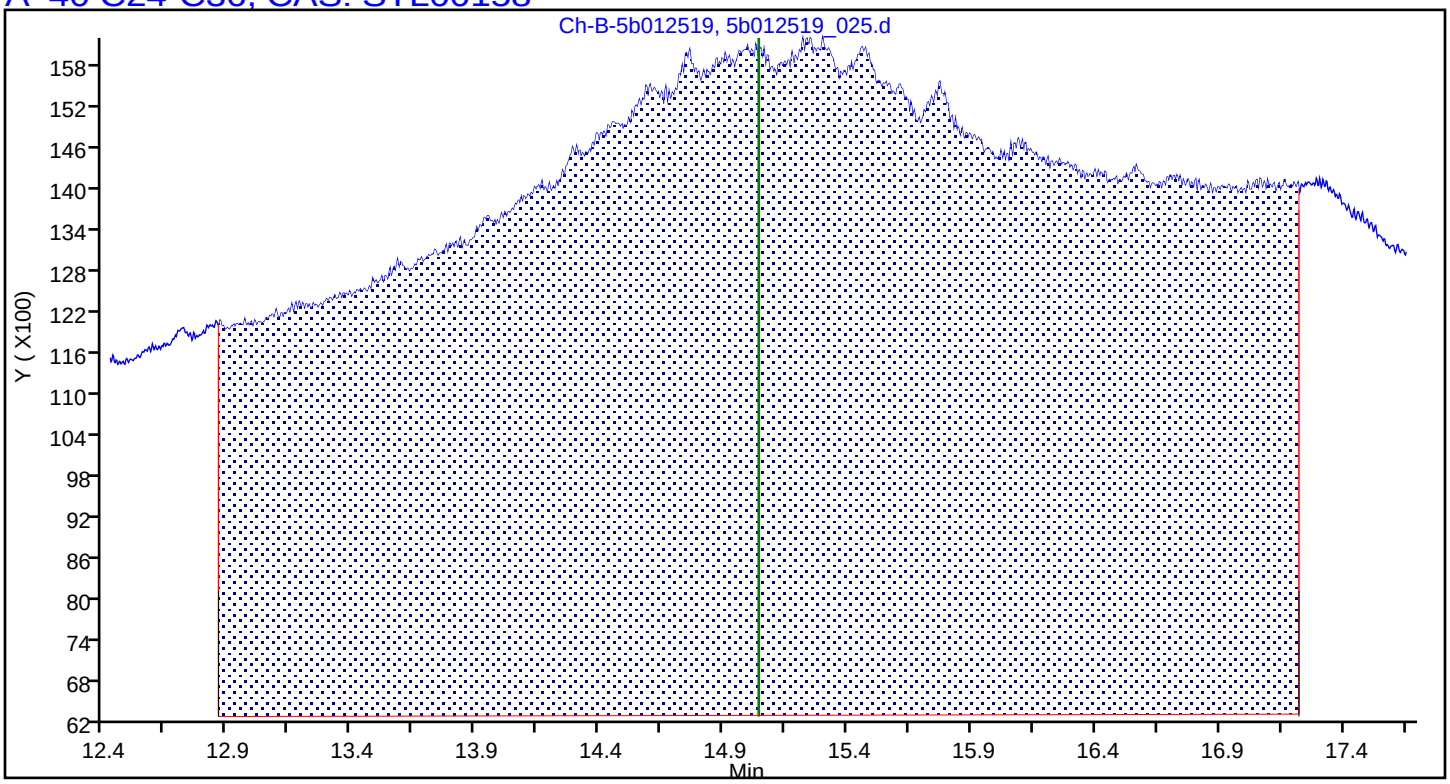


Report Date: 28-Jan-2019 12:31:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_025.d				
Injection Date:	25-Jan-2019 18:02:22	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-5-G	Lab Sample ID:	720-90732-5		
Client ID:	DG-S15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

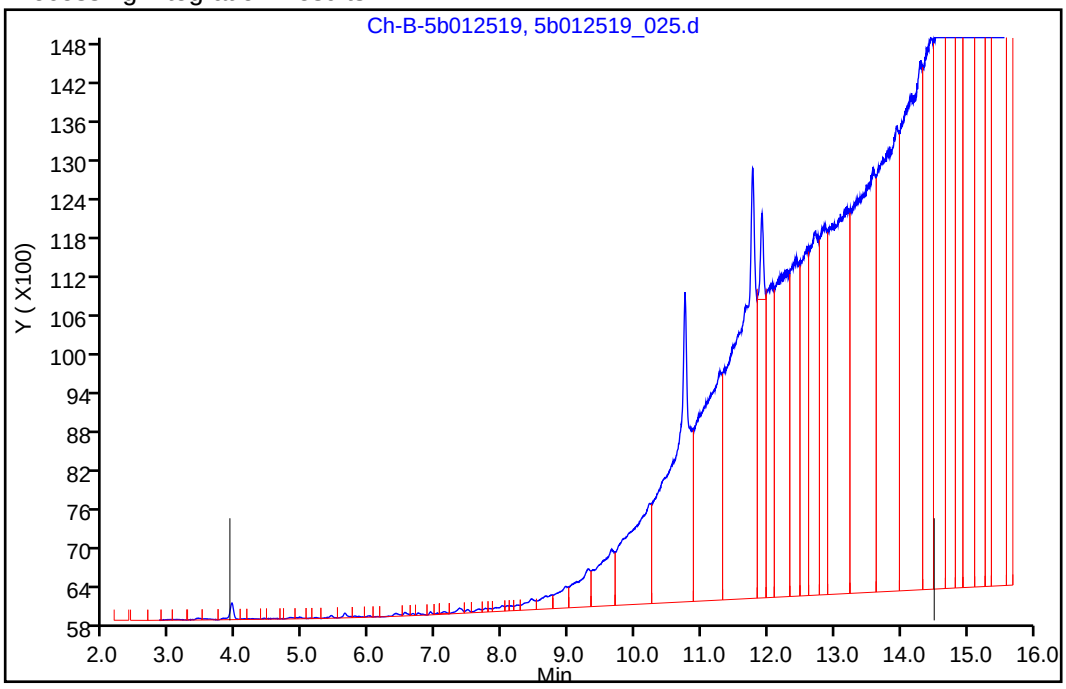
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_025.d				
Injection Date:	25-Jan-2019 18:02:22	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-5-G	Lab Sample ID:	720-90732-5		
Client ID:	DG-S15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.198, CAS: STL00143

Signal: 1

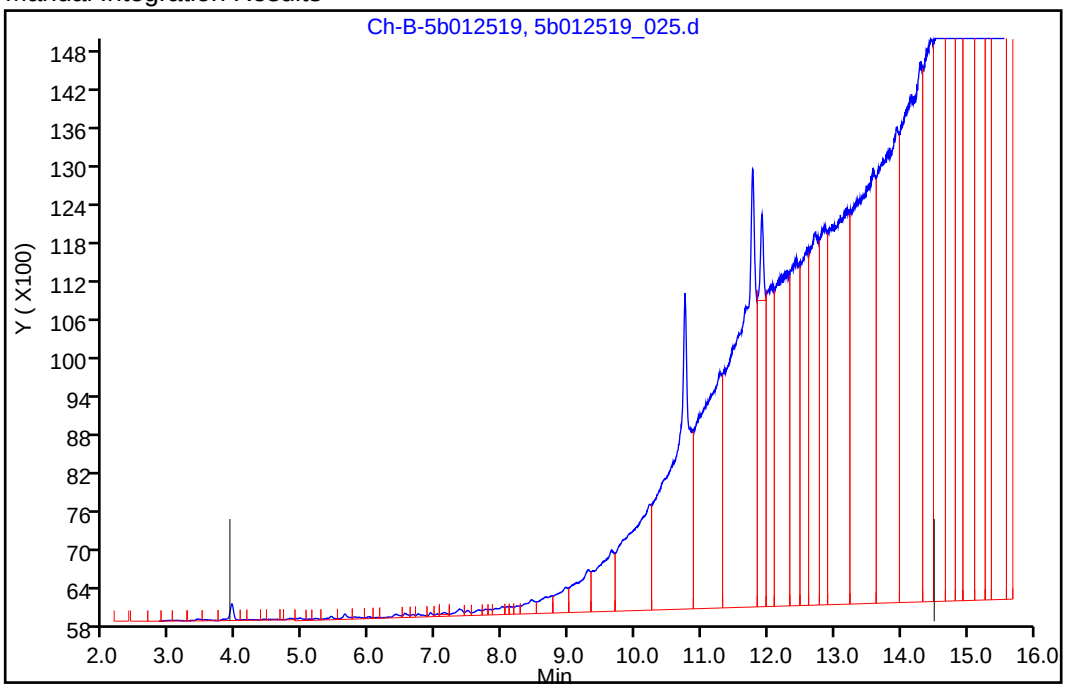
Processing Integration Results

RT: 9.20
Response: 6798826
Amount: 692.4706



Manual Integration Results

RT: 9.20
Response: 7132352
Amount: 726.4407



Reviewer: luj, 28-Jan-2019 12:31:10

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

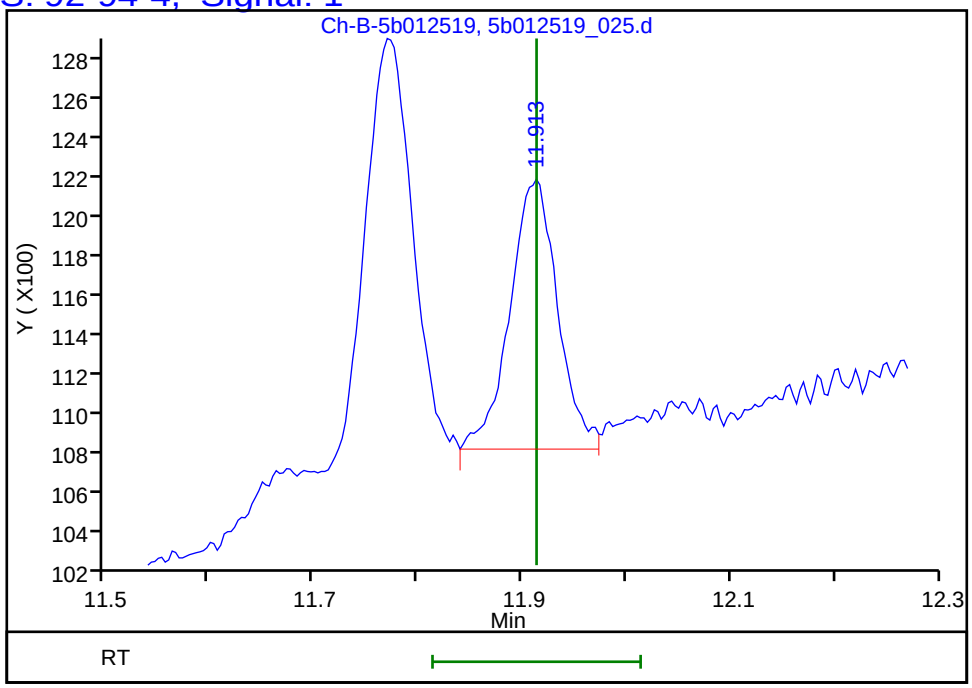
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_025.d				
Injection Date:	25-Jan-2019 18:02:22	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-5-G	Lab Sample ID:	720-90732-5		
Client ID:	DG-S15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 21280
Amount: 1.688505



Reviewer: luj, 28-Jan-2019 12:31:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_016.d
Lims ID: 720-90732-E-6-G
Client ID: DG-S15S-3.5-4
Sample Type: Client
Inject. Date: 25-Jan-2019 13:37:34 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 105 Name: 720-0056286-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m
Limit Group: DRO
Last Update: 25-Jan-2019 14:11:39 Calib Date: 25-Jan-2019 07:10:47
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 25-Jan-2019 14:11:39

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.700	2.665	0.035	947	NC	
	23 n-Decane	3.891	3.888	0.003	3100	NC	
A	21 Stoddard Solvent	4.619	(2.665-6.572)		51543	4.53	M
A	1 C9-C13	4.619	(2.665-6.572)		51543	4.07	M
A	57 C10-C12	4.831	(3.888-5.773)		24767	2.52	
	24 Dodecane	5.773	5.773	0.000	1204	NC	
A	3 C9 - C17	5.972	(2.665-9.278)		126239	9.05	M
A	47 C9 - C18	6.260	(2.665-9.854)		166407	14.8	M
A	60 C10-C16	6.268	(3.888-8.648)		102737	8.34	M
A	25 C9-C19	6.537	(2.665-10.408)		198650	14.2	M
A	15 Kerosene	6.537	(2.665-10.408)		198650	17.7	M
	26 C13	6.523	6.572	-0.049	7811	NC	M
$	27 n-Decanoic Acid (Surr)		7.190			ND	MU
A	59 C12-C16	7.211	(5.773-8.648)		77970	7.94	M
A	62 C10-C20	7.415	(3.888-10.942)		244464	24.9	M
A	28 C9-C24	7.763	(2.665-12.861)		570320	58.1	M
A	29 C9-C25	7.980	(2.665-13.295)		667387	68.0	M
A	54 C10-C23	8.149	(3.888-12.410)		475512	48.4	M
A	4 C10-C24	8.375	(3.888-12.861)		558715	56.9	M
A	16 C10-C25	8.592	(3.888-13.295)		655782	66.8	M
	45 Hexadecane	8.647	8.648	-0.001	4971	NC	M
A	14 C10-C26	8.801	(3.888-13.714)		753075	76.7	M
A	67 C12-C22	8.857	(5.773-11.941)		368933	37.6	M
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		979240	NC	M
A	32 C10-C28	9.198	(3.888-14.508)		979240	99.7	M
A	5 Diesel	9.198	(3.888-14.508)		979240	99.7	M
A	30 C13-C22	9.256	(6.572-11.941)		361573	36.8	M
	44 Heptadecane	9.287	9.278	0.009	12637	NC	M
A	31 C12-C24	9.317	(5.773-12.861)		533948	54.4	M
	49 n-Octadecane	9.887	9.854	0.033	9928	NC	M
A	11 Bunker Range Organics (C9-	9.944	(2.665-17.223)		1692401	NC	M
A	9 Crude Oil Range Organics (	9.548	(2.665-16.430)		2002981	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.944	(2.665-17.223)		2401842	221.1	
33 C19	10.413	10.408	0.005	13729	NC	M
A 64 C13-C28	10.540	(6.572-14.508)		947113	96.5	M
A 17 C10-C36	10.159	(3.888-16.430)		1680796	171.2	M
A 68 Crude Oil Range Organics (	10.708	(2.665-18.751)		3133413	NC	
A 13 C9-C40	10.708	(2.665-18.751)		3133413	366.4	
A 58 C16-C24	10.755	(8.648-12.861)		460949	46.9	M
61 icosane	10.943	10.942	0.001	9097	NC	M
A 6 C10-C40	11.320	(3.888-18.751)		3119370	364.8	
$ 34 p-Terphenyl	11.913	11.913	0.000	260828	20.7	
35 n-Docosane	12.037	11.941	0.096	18860	NC	M
A 18 C12-C40	12.262	(5.773-18.751)		3083676	360.6	
36 Tricosane	12.407	12.410	-0.003	27323	NC	M
A 66 C13-C40	12.661	(6.572-18.751)		2893676	338.3	
37 n-Tetracosane	12.853	12.861	-0.008	36541	NC	M
A 2 C16-C36 ORO	12.936	(8.648-17.223)		1832245	256.8	
38 C25	13.293	13.295	-0.002	34610	NC	M
A 19 C16-C40	13.700	(8.648-18.751)		2979517	348.3	
46 n-Hexacosane	13.713	13.714	-0.001	39035	NC	M
A 20 C19-C36	13.816	(10.408-17.223)		1081908	138.7	
A 55 C23-C32	14.178	(12.410-15.946)		969977	236.1	
39 n-Octacosane	14.503	14.508	-0.005	25085	NC	M
65 C29	14.883	14.884	-0.001	55026	NC	M
A 7 Motor Oil	15.042	(12.861-17.223)		1428333	250.2	
A 40 C24-C36	15.042	(12.861-17.223)		1428333	250.2	
A 50 C25-C36	15.259	(13.295-17.223)		1345902	250.1	
A 10 C22-C40	15.346	(11.941-18.751)		1968246	248.5	
A 41 C23-C40	15.581	(12.410-18.751)		2142047	277.1	
A 8 C24-C40	15.806	(12.861-18.751)		2069220	277.4	
56 Dotriacontane	15.943	15.946	-0.003	51945	NC	M
A 51 C28-C40	16.629	(14.508-18.751)		1683613	313.6	
A 63 C29-C40	16.818	(14.884-18.751)		1558337	324.4	
42 n-Hexatriacontane	17.277	17.223	0.054	1352247	NC	M
43 C40		18.751			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

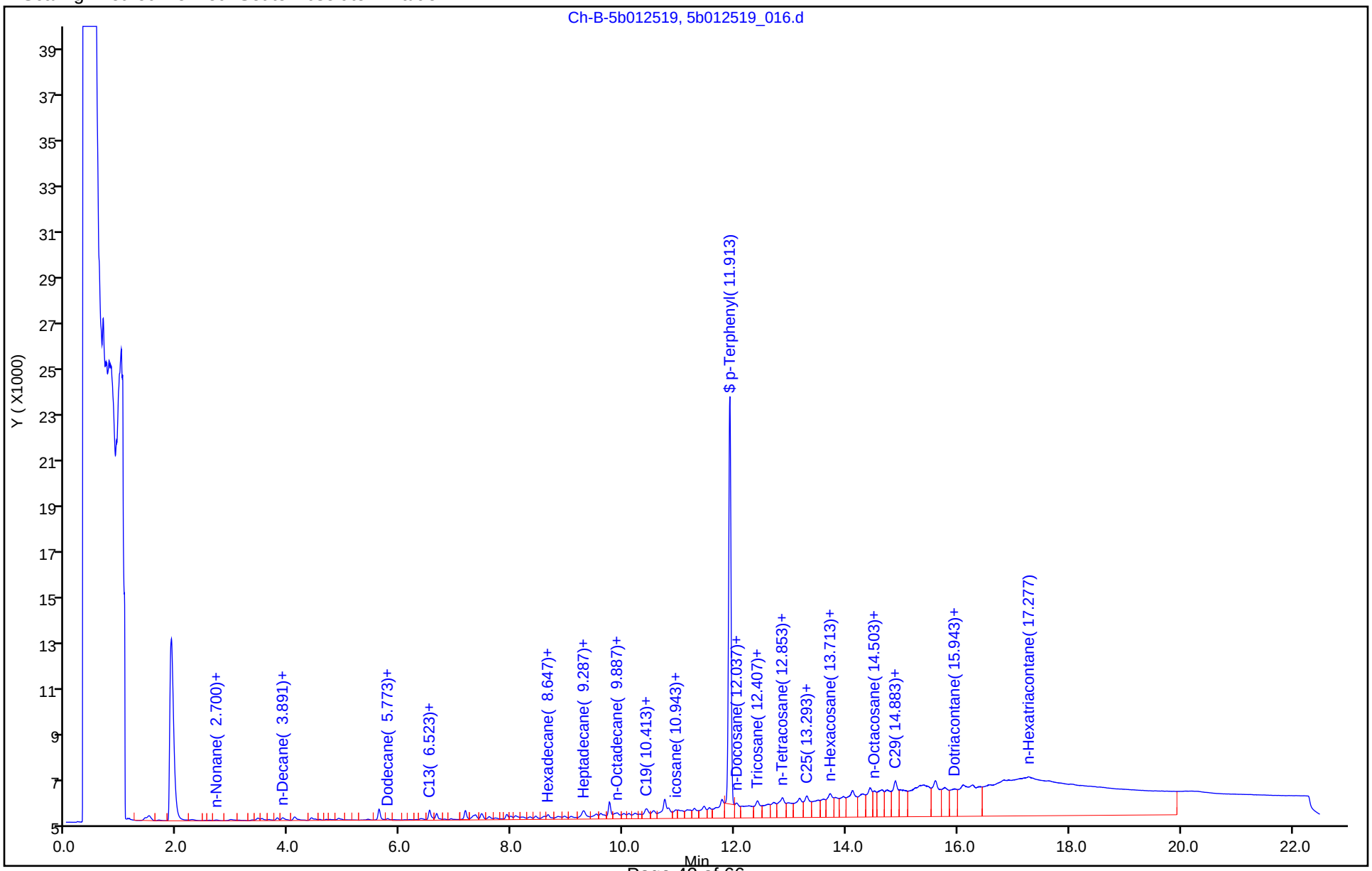
Report Date: 25-Jan-2019 14:11:39 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_016.d

Injection Date:	25-Jan-2019 13:37:34	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90732-E-6-G	Lab Sample ID:	720-90732-6	Worklist Smp#:	16
Client ID:	DG-S15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_016.d				
Lims ID:	720-90732-E-6-G				
Client ID:	DG-S15S-3.5-4				
Sample Type:	Client				
Inject. Date:	25-Jan-2019 13:37:34	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 105 Name: 720-0056286-016				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	25-Jan-2019 14:11:39	Calib Date:	25-Jan-2019 07:10:47		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 25-Jan-2019 14:11:39

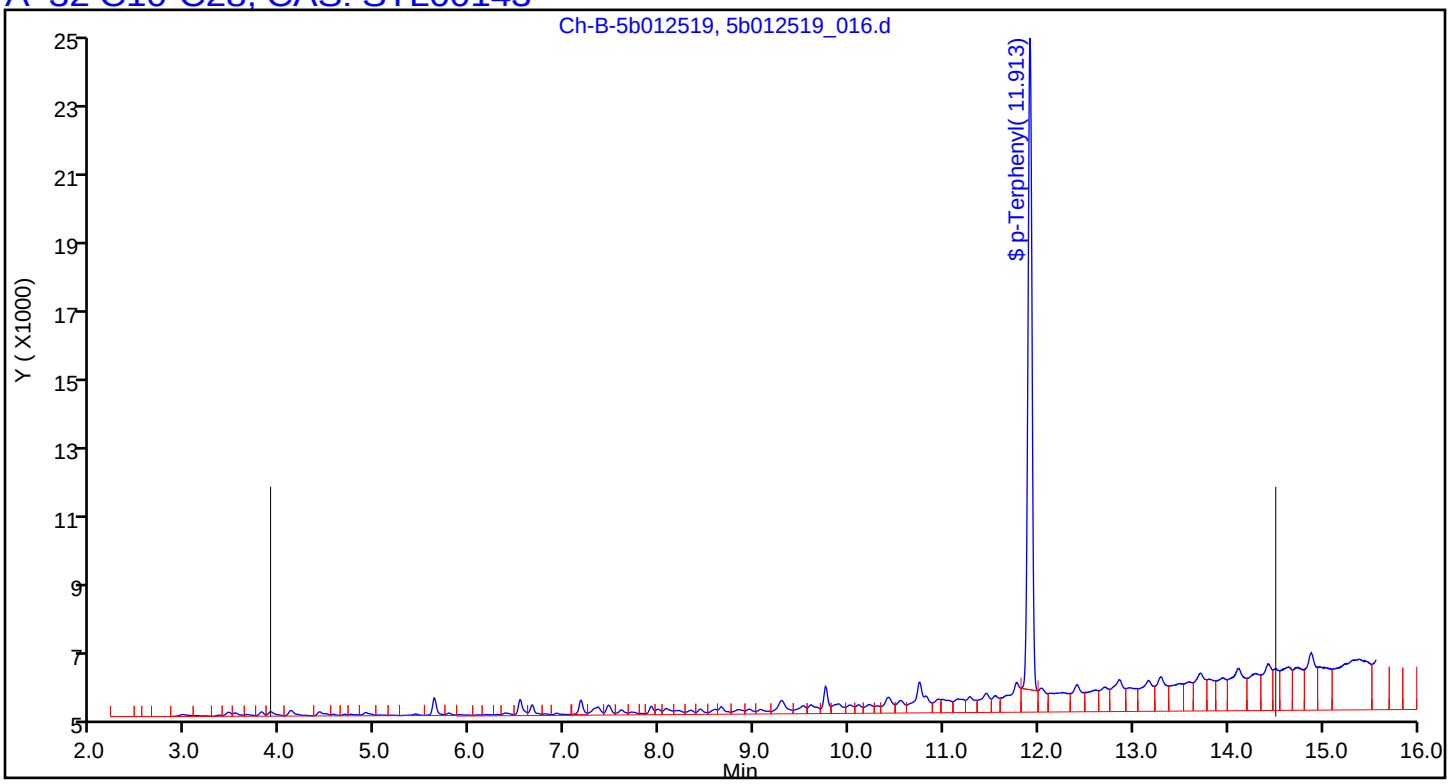
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.7	82.78

Report Date: 25-Jan-2019 14:11:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_016.d				
Injection Date:	25-Jan-2019 13:37:34	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-6-G	Lab Sample ID:	720-90732-6		
Client ID:	DG-S15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

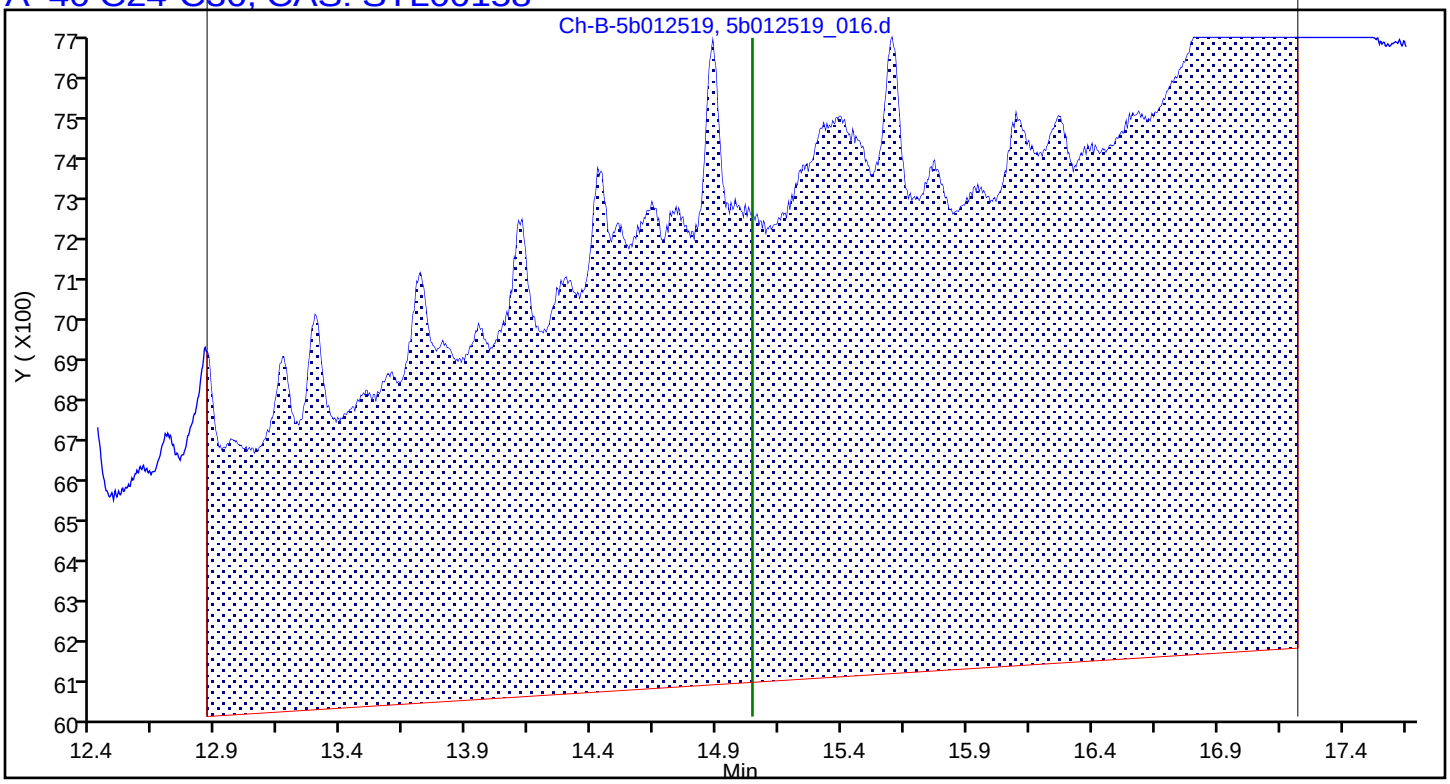


Report Date: 25-Jan-2019 14:11:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_016.d				
Injection Date:	25-Jan-2019 13:37:34	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-6-G	Lab Sample ID:	720-90732-6		
Client ID:	DG-S15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

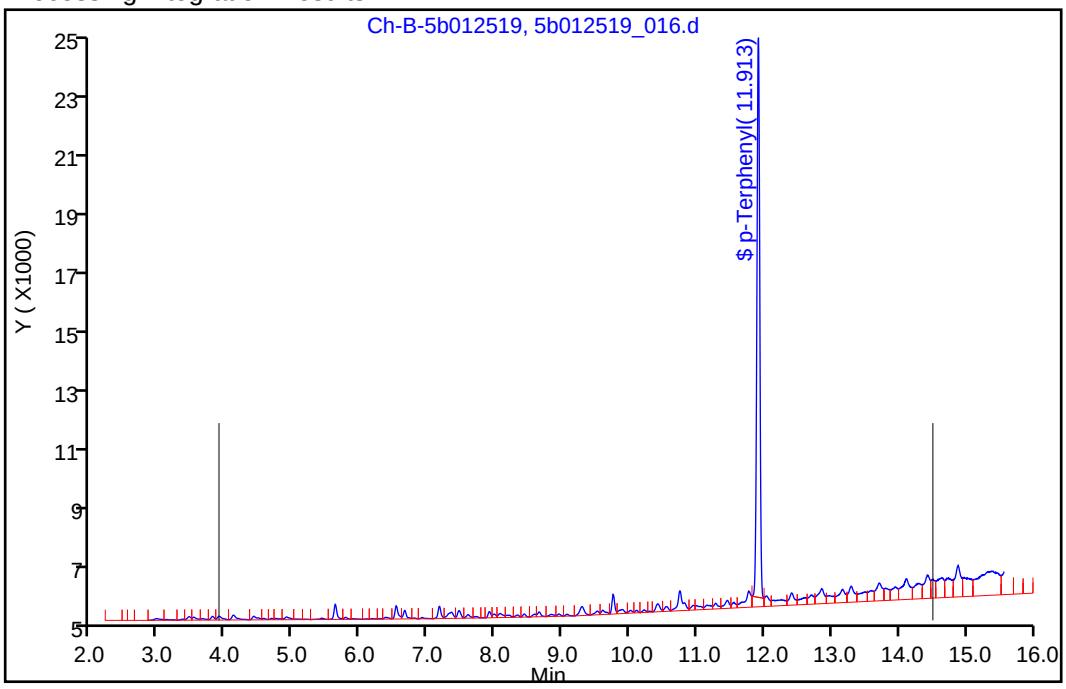
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_016.d				
Injection Date:	25-Jan-2019 13:37:34	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-6-G	Lab Sample ID:	720-90732-6		
Client ID:	DG-S15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.198, CAS: STL00143

Signal: 1

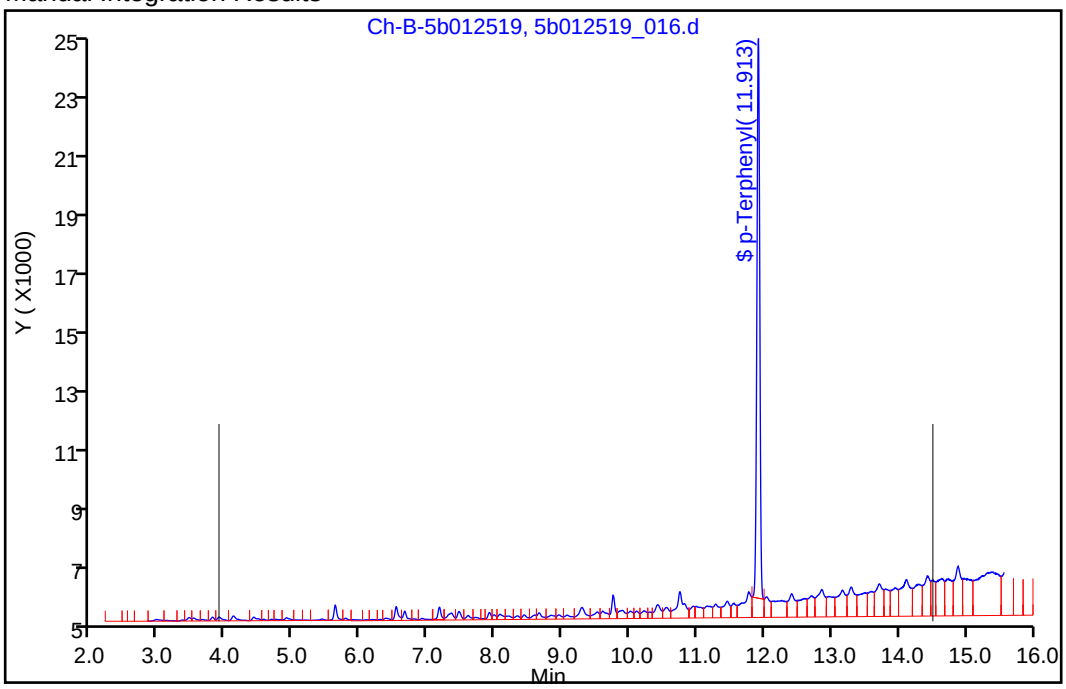
Processing Integration Results

RT: 9.20
Response: 435251
Amount: 44.330967



Manual Integration Results

RT: 9.20
Response: 979240
Amount: 99.737061



Reviewer: luj, 25-Jan-2019 14:11:28

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_021.d
Lims ID: 720-90732-E-7-E
Client ID: DG-S15S-6-6.5
Sample Type: Client
Inject. Date: 25-Jan-2019 16:04:57 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 100 Name: 720-0056286-021
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\DRO5B.m
Limit Group: DRO
Last Update: 25-Jan-2019 17:02:25 Calib Date: 25-Jan-2019 07:10:47
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 25-Jan-2019 17:02:25

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.708	2.665	0.043	284	NC	
	23 n-Decane	3.920	3.888	0.032	8306	NC	
A	21 Stoddard Solvent	4.619	(2.665-6.572)		419394	36.9	
A	1 C9-C13	4.619	(2.665-6.572)		419394	33.1	
A	57 C10-C12	4.831	(3.888-5.773)		85925	8.75	
	24 Dodecane	5.802	5.773	0.029	8470	NC	
A	3 C9 - C17	5.972	(2.665-9.278)		3247656	232.7	
A	47 C9 - C18	6.260	(2.665-9.854)		4158358	370.5	
A	60 C10-C16	6.268	(3.888-8.648)		2316750	188.0	
A	25 C9-C19	6.537	(2.665-10.408)		4951087	354.0	
A	15 Kerosene	6.537	(2.665-10.408)		4951087	440.0	
	26 C13	6.533	6.572	-0.039	90153	NC	
$	27 n-Decanoic Acid (Surr)		7.190			ND	U
A	59 C12-C16	7.211	(5.773-8.648)		2244043	228.6	
A	62 C10-C20	7.415	(3.888-10.942)		5763785	587.1	
A	28 C9-C24	7.763	(2.665-12.861)		8948360	911.4	
A	29 C9-C25	7.980	(2.665-13.295)		9595355	977.3	
A	54 C10-C23	8.149	(3.888-12.410)		8285280	843.9	
A	4 C10-C24	8.375	(3.888-12.861)		8945174	911.1	
A	16 C10-C25	8.592	(3.888-13.295)		9592169	977.0	
	45 Hexadecane	8.697	8.648	0.049	254883	NC	
A	14 C10-C26	8.801	(3.888-13.714)		10195605	1038.4	
A	67 C12-C22	8.857	(5.773-11.941)		7286871	742.2	
A	12 Unknown Hydrocarbons	9.198	(3.888-14.508)		11454428	NC	
A	32 C10-C28	9.198	(3.888-14.508)		11454428	1166.7	
A	5 Diesel	9.198	(3.888-14.508)		11454428	1166.7	
A	30 C13-C22	9.256	(6.572-11.941)		7033523	716.4	
	44 Heptadecane	9.311	9.278	0.033	232613	NC	
A	31 C12-C24	9.317	(5.773-12.861)		8872467	903.7	
	49 n-Octadecane	9.823	9.854	-0.031	114490	NC	
A	11 Bunker Range Organics (C9-	9.944	(2.665-17.223)		17363806	NC	
A	9 Crude Oil Range Organics (	9.944	(2.665-17.223)		16078332	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.944	(2.665-17.223)		16078332	1480.0	
33 C19	10.412	10.408	0.004	193870	NC	
A 64 C13-C28	10.540	(6.572-14.508)		11128373	1133.4	
A 17 C10-C36	10.556	(3.888-17.223)		17360620	1768.2	
A 68 Crude Oil Range Organics (	10.708	(2.665-18.751)		17313304	NC	
A 13 C9-C40	10.708	(2.665-18.751)		17313304	2224.6	
A 58 C16-C24	10.755	(8.648-12.861)		6628424	675.1	
61 icosane	10.986	10.942	0.044	222988	NC	
A 6 C10-C40	11.320	(3.888-18.751)		17307533	2224.1	
$ 34 p-Terphenyl		11.913			ND	U
35 n-Docosane		11.941			ND	
A 18 C12-C40	12.262	(5.773-18.751)		17202475	2210.8	
36 Tricosane	12.436	12.410	0.026	199716	NC	
A 66 C13-C40	12.661	(6.572-18.751)		15985101	2056.8	
37 n-Tetracosane	12.871	12.861	0.010	230582	NC	
A 2 C16-C36 ORO	12.936	(8.648-17.223)		8750308	1226.6	
38 C25	13.303	13.295	0.008	352811	NC	
A 19 C16-C40	13.700	(8.648-18.751)		14776781	1896.3	
46 n-Hexacosane	13.739	13.714	0.024	197212	NC	
A 20 C19-C36	13.816	(10.408-17.223)		9201177	1180.0	
A 55 C23-C32	14.178	(12.410-15.946)		3435914	836.5	
39 n-Octacosane	14.603	14.508	0.095	436894	NC	
65 C29		14.884			ND	
A 7 Motor Oil	15.042	(12.861-17.223)		3781753	662.5	
A 40 C24-C36	15.042	(12.861-17.223)		6313328	1106.0	M
A 50 C25-C36	15.259	(13.295-17.223)		3377852	627.7	
A 10 C22-C40	15.346	(11.941-18.751)		4883427	616.4	
A 41 C23-C40	15.581	(12.410-18.751)		4411798	570.7	
A 8 C24-C40	15.806	(12.861-18.751)		3989431	534.9	
56 Dotriacontane		15.946			ND	
A 51 C28-C40	16.629	(14.508-18.751)		2391907	461.2	
A 63 C29-C40	16.818	(14.884-18.751)		1972333	421.8	
42 n-Hexatriacontane		17.223			ND	
43 C40		18.751			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

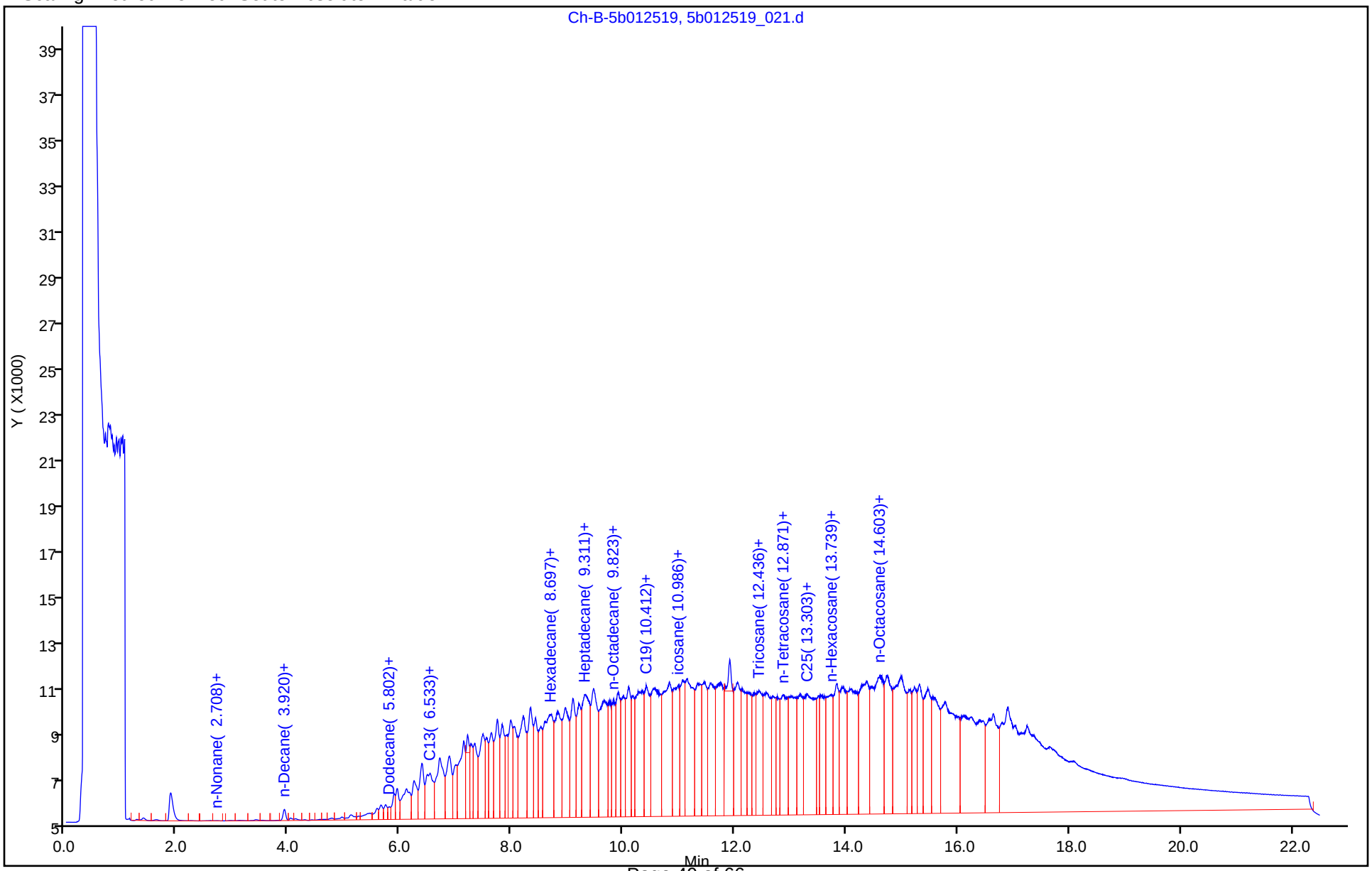
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_021.d

Injection Date:	25-Jan-2019 16:04:57	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90732-E-7-E	Lab Sample ID:	720-90732-7	Worklist Smp#:	21
Client ID:	DG-S15S-6-6.5				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

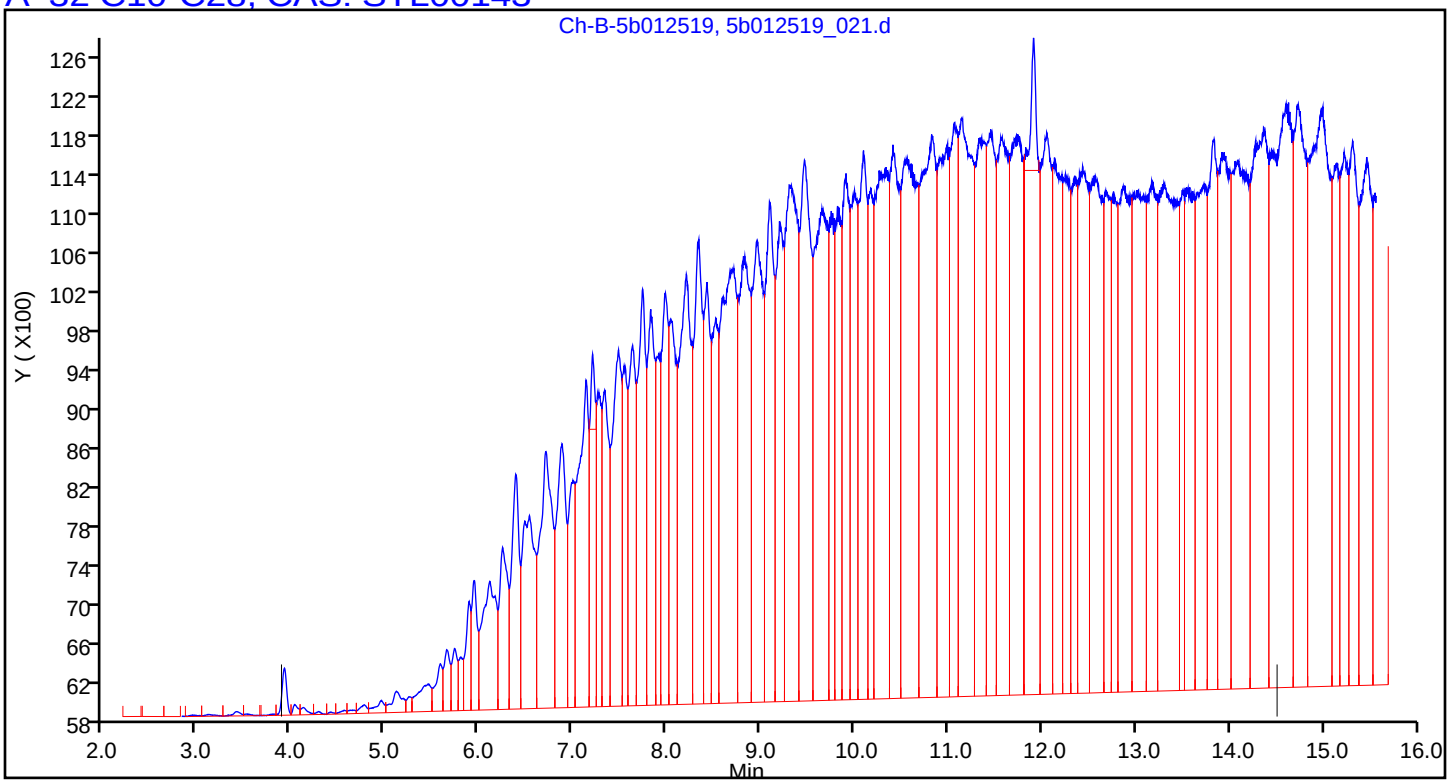


Report Date: 25-Jan-2019 17:02:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_021.d				
Injection Date:	25-Jan-2019 16:04:57	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-7-E	Lab Sample ID:	720-90732-7		
Client ID:	DG-S15S-6-6.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

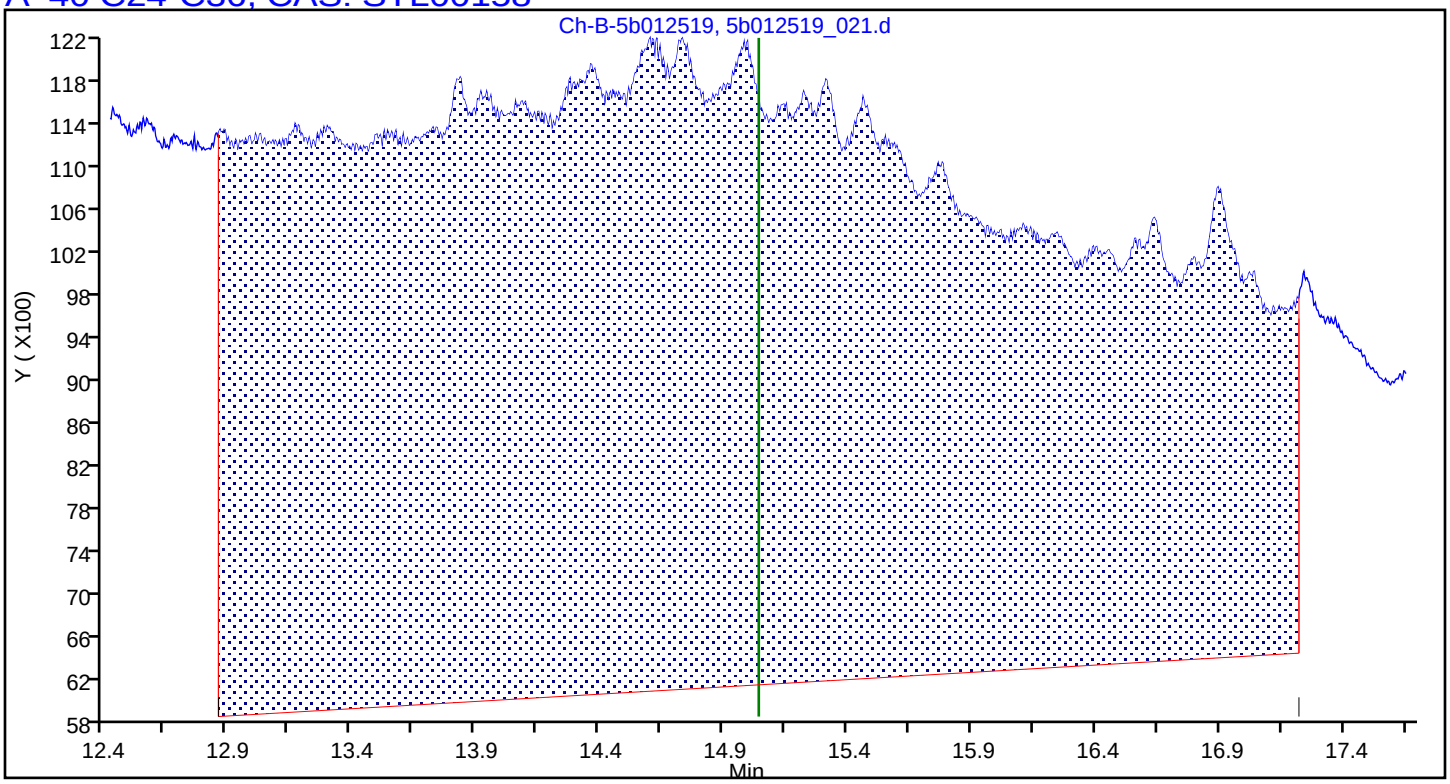


Report Date: 25-Jan-2019 17:02:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_021.d				
Injection Date:	25-Jan-2019 16:04:57	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-7-E	Lab Sample ID:	720-90732-7		
Client ID:	DG-S15S-6-6.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

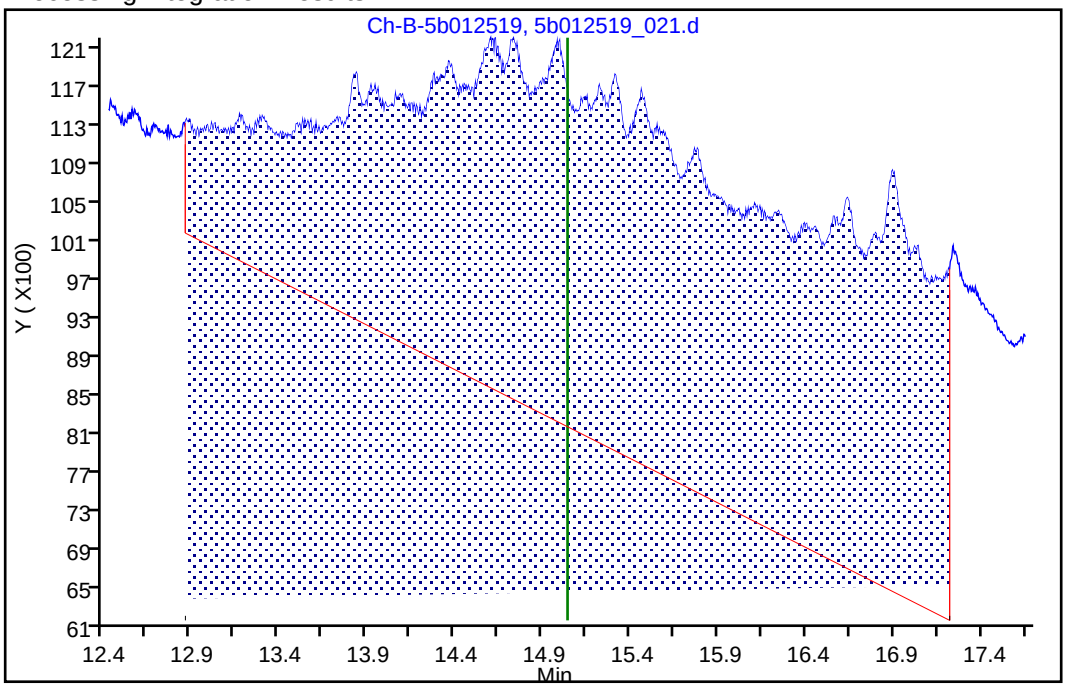
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_021.d				
Injection Date:	25-Jan-2019 16:04:57	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-7-E	Lab Sample ID:	720-90732-7		
Client ID:	DG-S15S-6-6.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.042, CAS: STL00158

Signal: 1

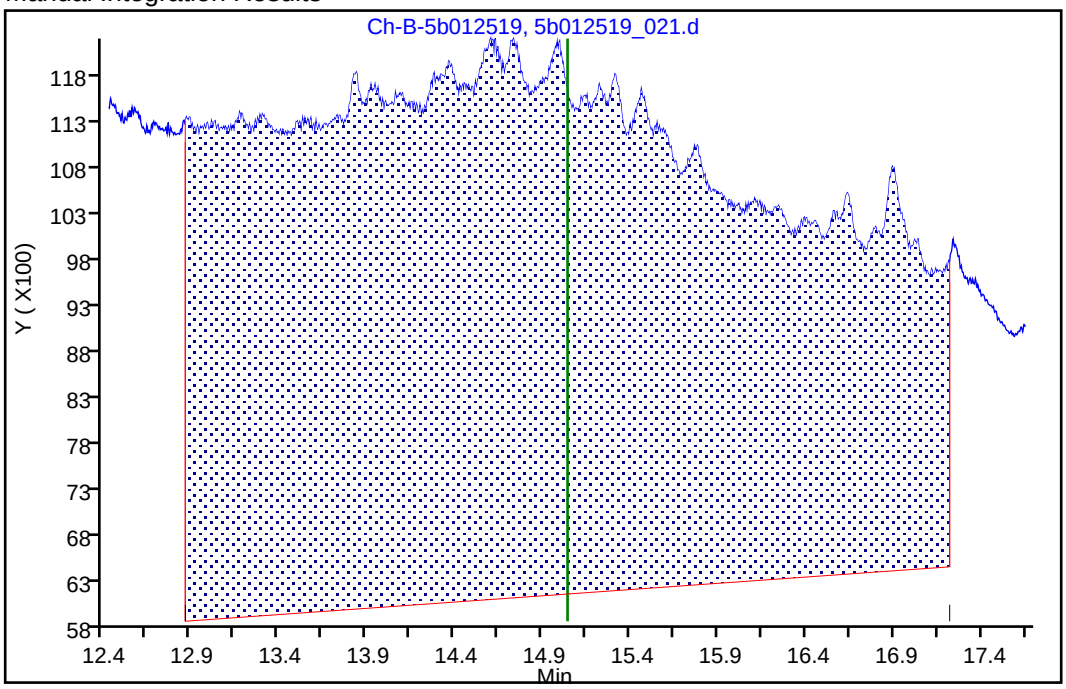
Processing Integration Results

RT: 15.04
Response: 3781753
Amount: 662.5094



Manual Integration Results

RT: 15.04
Response: 6313328
Amount: 1106.0054



Reviewer: luj, 25-Jan-2019 17:02:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

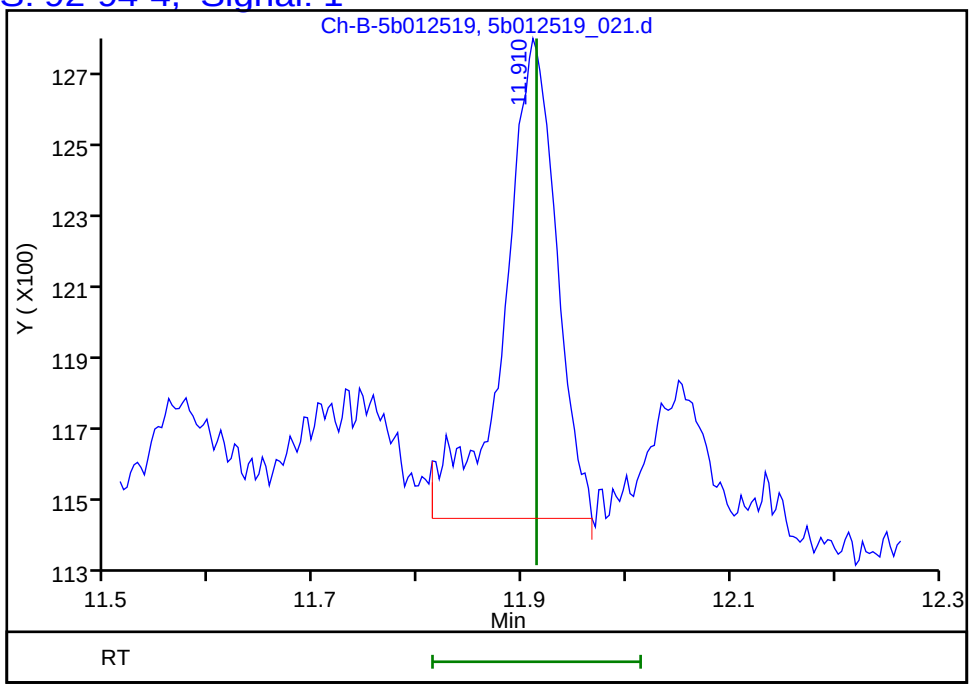
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56286.b\5b012519_021.d				
Injection Date:	25-Jan-2019 16:04:57	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-7-E	Lab Sample ID:	720-90732-7		
Client ID:	DG-S15S-6-6.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 23696
Amount: 1.880208



Reviewer: luj, 25-Jan-2019 17:02:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\5a012519_016.d
Lims ID: 720-90732-E-8-F
Client ID: DUP-107
Sample Type: Client
Inject. Date: 25-Jan-2019 13:37:34 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 006 Name: 720-0056285-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\DRO5A.m
Limit Group: DRO
Last Update: 25-Jan-2019 14:11:04 Calib Date: 25-Jan-2019 07:10:47
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\5a012519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 25-Jan-2019 14:11:04

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.617	2.540	0.077	2499	NC	
	23 n-Decane		3.790			ND	
A	1 C9-C13	4.524	(2.540-6.508)		69953	NC	
A	21 Stoddard Solvent	4.524	(2.540-6.508)		69953	NC	
A	57 C10-C12	4.747	(3.790-5.704)		35925	3.67	
	24 Dodecane	5.710	5.704	0.006	4755	NC	
A	3 C9 - C17	5.888	(2.540-9.236)		164707	13.6	
A	47 C9 - C18	6.185	(2.540-9.831)		223092	20.7	
A	60 C10-C16	6.194	(3.790-8.598)		138447	12.6	
A	15 Kerosene	6.454	(2.540-10.368)		247857	23.0	
A	25 C9-C19	6.454	(2.540-10.368)		247857	20.3	
	26 C13	6.486	6.508	-0.022	15026	NC	
$	27 n-Decanoic Acid (Surr)		7.149			ND	U
A	59 C12-C16	7.151	(5.704-8.598)		102522	10.5	
A	62 C10-C20	7.347	(3.790-10.904)		335461	34.2	
A	28 C9-C24	7.688	(2.540-12.835)		687525	70.1	
A	29 C9-C25	7.906	(2.540-13.272)		808894	82.5	
A	54 C10-C23	8.085	(3.790-12.381)		538954	55.0	
A	4 C10-C24	8.312	(3.790-12.835)		673278	68.7	
A	16 C10-C25	8.531	(3.790-13.272)		794647	81.1	
	45 Hexadecane	8.593	8.598	-0.005	12288	NC	
A	14 C10-C26	8.741	(3.790-13.693)		948046	96.7	
A	67 C12-C22	8.806	(5.704-11.909)		372320	38.0	
A	12 Unknown Hydrocarbons	9.141	(3.790-14.491)		1197623	NC	
A	32 C10-C28	9.141	(3.790-14.491)		1197623	122.2	
A	5 Diesel	9.141	(3.790-14.491)		1197623	122.2	
A	30 C13-C22	9.208	(6.508-11.909)		367565	37.5	
	44 Heptadecane	9.249	9.236	0.013	16915	NC	
A	31 C12-C24	9.269	(5.704-12.835)		637353	65.0	
	49 n-Octadecane		9.831			ND	
A	9 Crude Oil Range Organics (	9.881	(2.540-17.221)		3148200	NC	
A	52 Mineral oil	9.881	(2.540-17.221)		3148200	281.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.881	(2.540-17.221)		2398822	NC	
33 C19	10.392	10.368	0.024	38538	NC	
A 64 C13-C28	10.500	(6.508-14.491)		1156943	118.0	
A 17 C10-C36	10.506	(3.790-17.221)		2384575	243.3	
A 13 C9-C40	10.653	(2.540-18.766)		4098192	478.9	
A 68 Crude Oil Range Organics (	10.653	(2.540-18.766)		4098192	NC	
A 58 C16-C24	10.716	(8.598-12.835)		547119	55.8	
61 icosane		10.904			ND	
A 6 C10-C40	11.278	(3.790-18.766)		4078700	476.8	
$ 34 p-Terphenyl	11.890	11.897	-0.007	324571	27.2	M
35 n-Docosane		11.909			ND	
A 18 C12-C40	12.235	(5.704-18.766)		4027322	470.8	
36 Tricosane	12.383	12.381	0.002	37956	NC	
A 66 C13-C40	12.637	(6.508-18.766)		3998958	467.3	
37 n-Tetracosane	12.829	12.835	-0.006	96368	NC	
A 2 C16-C36 ORO	12.909	(8.598-17.221)		2916103	384.2	
38 C25	13.271	13.272	-0.001	88631	NC	
A 19 C16-C40	13.682	(8.598-18.766)		3866095	450.9	
46 n-Hexacosane	13.688	13.693	-0.005	153399	NC	
A 20 C19-C36	13.794	(10.368-17.221)		2311338	267.9	
A 55 C23-C32	14.160	(12.381-15.939)		1542880	324.5	
39 n-Octacosane	14.456	14.491	-0.035	140496	NC	
65 C29	14.872	14.871	0.001	139844	NC	
A 7 Motor Oil	15.028	(12.835-17.221)		1929979	316.8	
A 40 C24-C36	15.028	(12.835-17.221)		1929979	316.8	
A 50 C25-C36	15.246	(13.272-17.221)		1819986	314.6	
A 10 C22-C40	15.337	(11.909-18.766)		2712673	324.5	
A 41 C23-C40	15.574	(12.381-18.766)		2881358	351.3	
A 8 C24-C40	15.801	(12.835-18.766)		2783227	349.9	
56 Dotriacontane		15.939			ND	
A 51 C28-C40	16.629	(14.491-18.766)		2257512	344.3	
A 63 C29-C40	16.818	(14.871-18.766)		2086503	349.4	
42 n-Hexatriacontane	17.297	17.221	0.076	1868100	NC	
43 C40		18.766			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

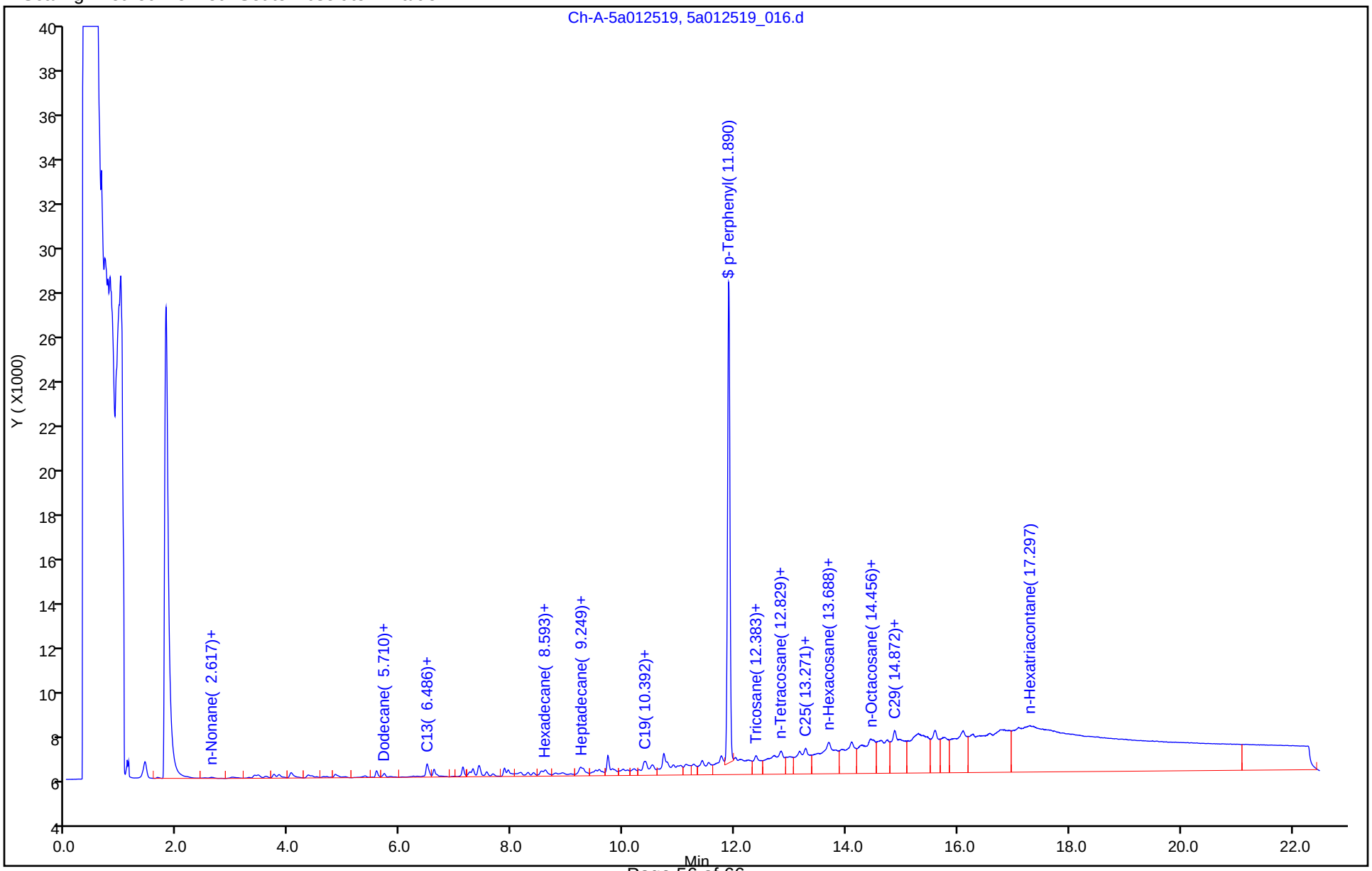
Report Date: 25-Jan-2019 14:11:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\5a012519_016.d

Injection Date:	25-Jan-2019 13:37:34	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90732-E-8-F	Lab Sample ID:	720-90732-8	Worklist Smp#:	16
Client ID:	DUP-107				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\5a012519_016.d				
Lims ID:	720-90732-E-8-F				
Client ID:	DUP-107				
Sample Type:	Client				
Inject. Date:	25-Jan-2019 13:37:34	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 006 Name: 720-0056285-016				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	25-Jan-2019 14:11:04	Calib Date:	25-Jan-2019 07:10:47		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\5a012519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 25-Jan-2019 14:11:04

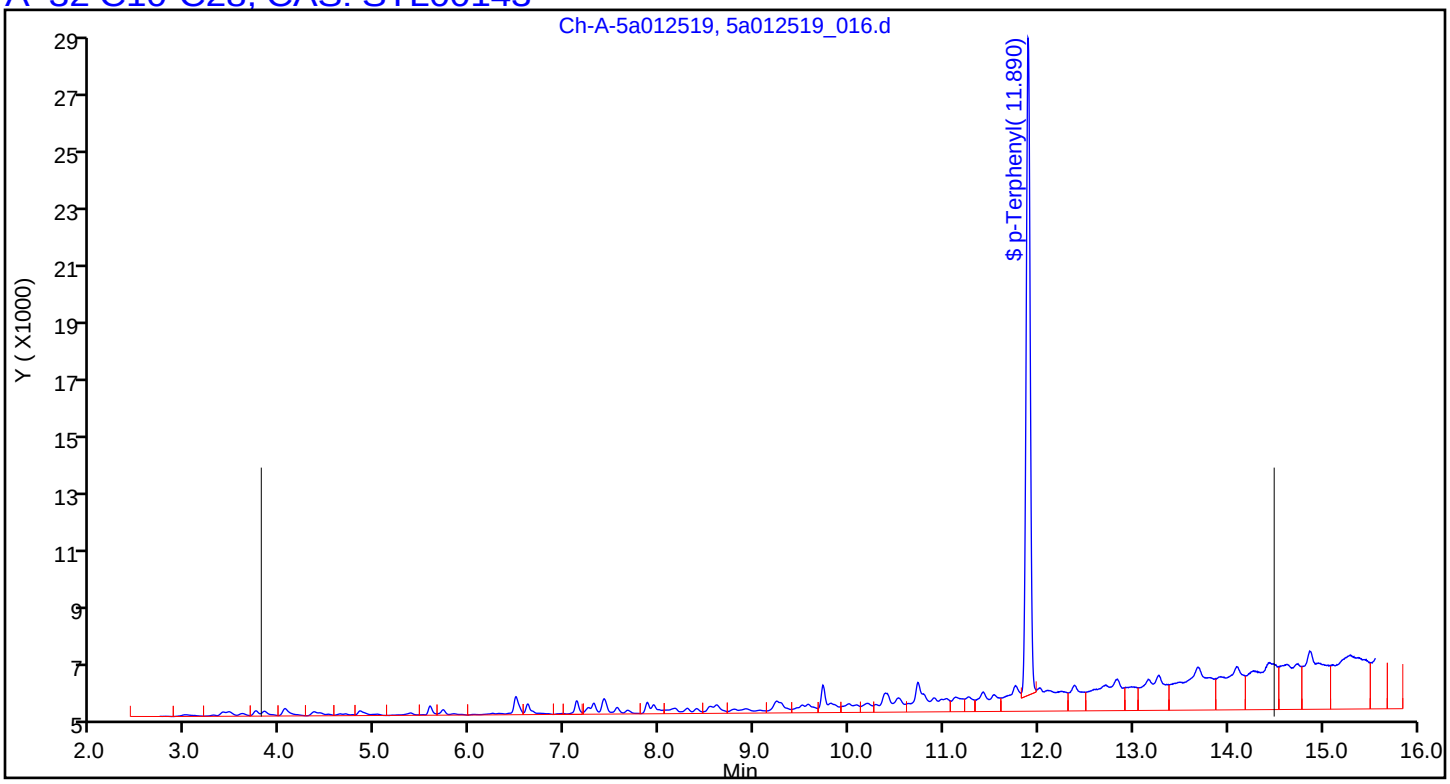
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.2	108.87

Report Date: 25-Jan-2019 14:11:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\5a012519_016.d				
Injection Date:	25-Jan-2019 13:37:34	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-8-F	Lab Sample ID:	720-90732-8		
Client ID:	DUP-107				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

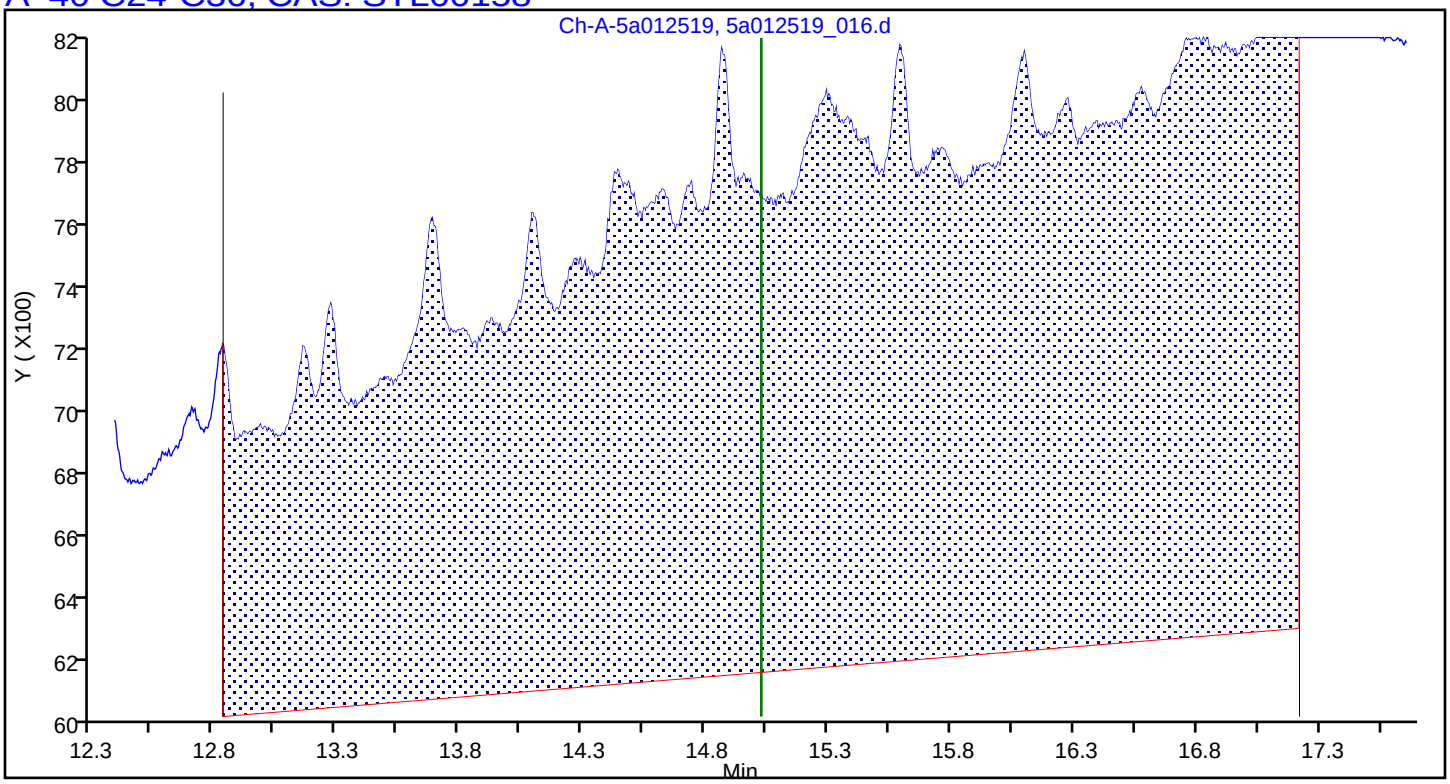


Report Date: 25-Jan-2019 14:11:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\5a012519_016.d				
Injection Date:	25-Jan-2019 13:37:34	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-8-F	Lab Sample ID:	720-90732-8		
Client ID:	DUP-107				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

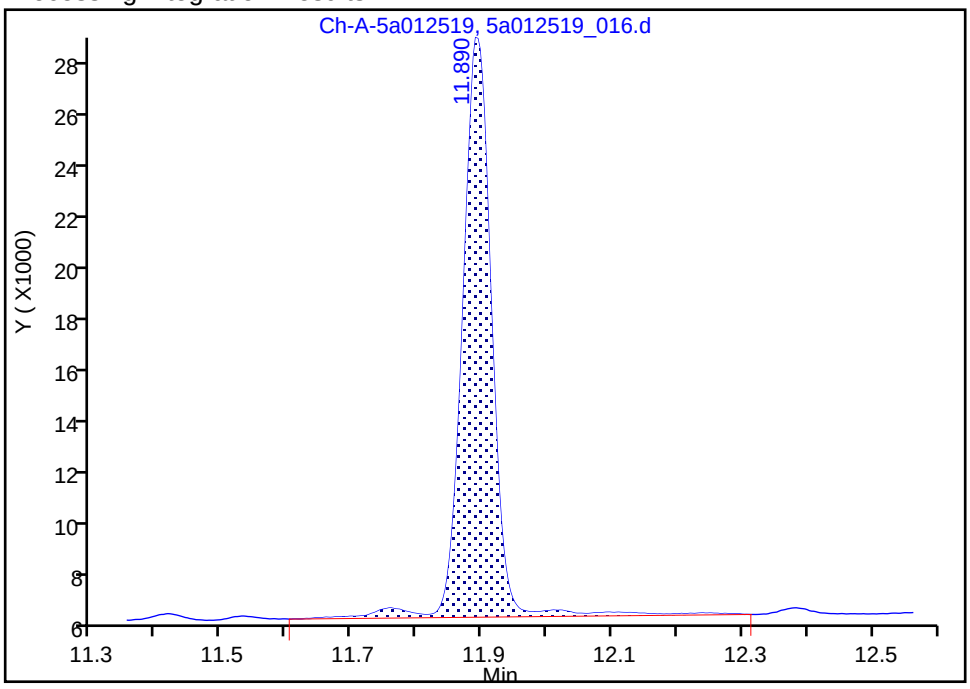
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190125-56285.b\5a012519_016.d				
Injection Date:	25-Jan-2019 13:37:34	Instrument ID:	CHDRO5		
Lims ID:	720-90732-E-8-F	Lab Sample ID:	720-90732-8		
Client ID:	DUP-107				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

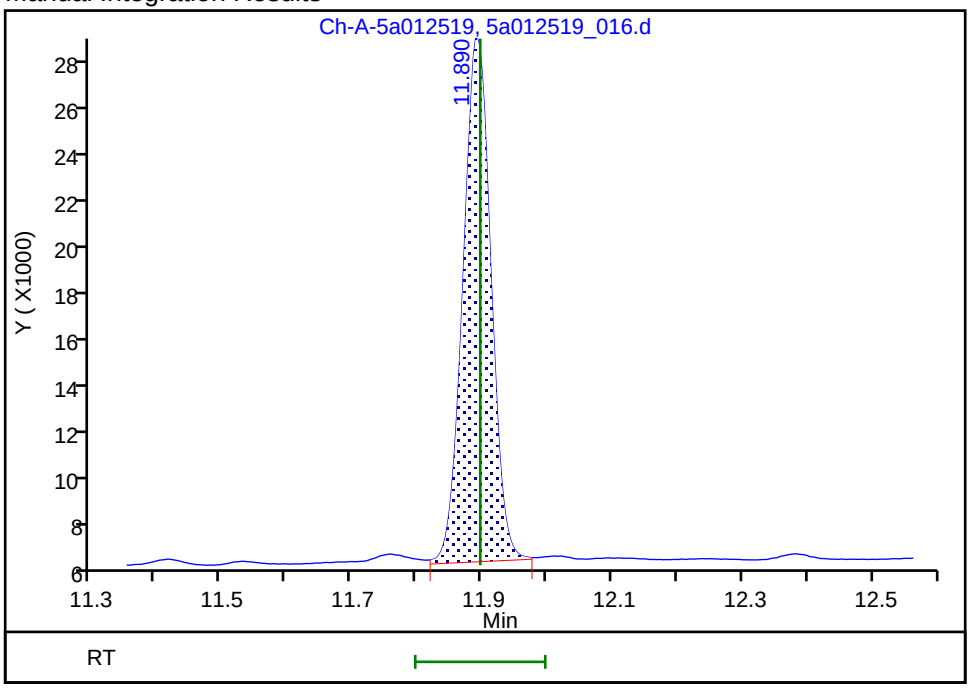
Processing Integration Results

RT: 11.89
Area: 344428
Amount: 28.883060
Amount Units: mg/L



Manual Integration Results

RT: 11.89
Area: 324571
Amount: 27.217891
Amount Units: mg/L



Reviewer: luj, 25-Jan-2019 14:10:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90732

Chain of Custody Record

TestAmerica

180785

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-11-19	COC No: 187785
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90732 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1. DG-Q158-0.5-1	1-11-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2. DG-Q158-3.5-4		0732													
3. DG-Q158-7.5-8		0735													
4. Dup-106		—													
5. DG-S158-0.5-1		0830													
6. DG-S158-3.5-4		0832													
7. DG-S158 6-6.5		0835			5										
8. Dup-107		—			7										
9. DG-AW7S-0.5-1		0918			8										
10. DG-AW7S 3.5-4		0920			4										

Page 61 of 66

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.8, 1.7, 3.0, 2.1, 3.7 °C
2.2, 0.9, 3.0, 3.3, 1.7 °C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp (°C) Obs'd. ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company: Geosyntec	Date/Time: 1-11-19 1303	Received by	Company: TAPLS	Date/Time: 1/11/19 1303
Relinquished by	Company: TAPLS	Date/Time: 1/11/19 1500	Received by:	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/11/19 1500

4/11/19 & 3-8/1.7/3/2.1/3.7/2.2
2/3/1.7/3.3 C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40782.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

TERRA CORES Shipped DIRECT BY LAB COURIER. FED-EX

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air, etc.)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFT/MS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Nc
DG-Q15S-0.5-1 (720-90732-1)	1/11/19	07:30 Pacific		Solid	X	X	
DG-Q15S-3.5-4 (720-90732-2)	1/11/19	07:32 Pacific		Solid	X	X	
DG-Q15S-7.5-8 (720-90732-3)	1/11/19	07:35 Pacific		Solid	X	X	
DUP-106 (720-90732-4)	1/11/19	Pacific		Solid	X	X	
DG-S15S-0.5-1 (720-90732-5)	1/11/19	08:30 Pacific		Solid	X	X	
DG-S15S-3.5-4 (720-90732-6)	1/11/19	08:32 Pacific		Solid	X	X	
DG-S15S-6.0-6.5 (720-90732-7)	1/11/19	08:35 Pacific		Solid		X	
DUP-107 (720-90732-8)	1/11/19	Pacific		Solid	X	X	
DG-AW7S-0.5-1 (720-90732-9)	1/11/19	09:18 Pacific		Solid		X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/11/19 1330	Company TA-PLS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by: Edgar Cineles	Date/Time: 1/12/19 1120	Company TA IRV	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Encores or Terracores Frozen
Date: 1/11/19 Time: 1132 Initials: CC

2.9/3.1 °C IR-88

Ver: 09/20/2016

720-90732 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40782.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			Other:
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	6020/3640 Standard 8082 PCB List	8260B_LUFT5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AW7S-3.5-4 (720-90732-10)	1/11/19	09:20 Pacific		Solid		X	X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/11/19 23:50	TARS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/12/19 1120	Company TARV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90732

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187785

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-11-19	COC No: 187785
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of ___ COCs
1111 Broadway 8th Floor	Analysis Turnaround Time			Sampler: George Hichborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ___			720-90732 Chain of Custody
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1 DG-Q158-0.5-1	1-11-19	0730	G	S	7	N		X	X	X	X	X	X	X	
2 DG-Q159-3.5-4		0732													
3 DG-Q159-7.5-8		0735													
4 Dup-106		—													
5 DG-S159-0.5-1		0830													
6 DG-S159-3.5-4		0832													
7 DG-S159 6-6.5		0835			5										
8 Dup-107		—			7										
9 DG-AW7S-0.5-1		0918			4										
10 DG-AW7S 3.5-4		0920			4										

Page 64 of 66

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments:

3.8, 1.7, 3.0, 2.1, 3.7 °C
2.2, 0.9, 3.0, 3.3, 1.7 °C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ___ Corr'd: ___ Therm ID No.:	
Relinquished by:	Company: Geosyntec	Date/Time: 1-11-19 1303	Received by:	Company: TAPLS	Date/Time: 1/11/19 1703
Relinquished by:	Company: TAPLS	Date/Time: 1/11/19 1500	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/11/19 1500

4/11/19 3-8/1-7/3/2.1/3.7/2.2
9/3/1-7/3.3 C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No: 720-40782.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Codes:							
DG-Q15S-0.5-1 (720-90732-1)	1/11/19	07:30 Pacific		Solid		X	X	X		
DG-Q15S-3.5-4 (720-90732-2)	1/11/19	07:32 Pacific		Solid		X	X	X		
DG-Q15S-7.5-8 (720-90732-3)	1/11/19	07:35 Pacific		Solid		X	X	X		
DUP-106 (720-90732-4)	1/11/19	Pacific		Solid		X	X	X		
DG-S15S-0.5-1 (720-90732-5)	1/11/19	08:30 Pacific		Solid		X	X	X		
DG-S15S-3.5-4 (720-90732-6)	1/11/19	08:32 Pacific		Solid		X	X	X		
~~DG-S15S-6.0-6.5 (720-90732-7)~~	~~1/11/19~~	08:35 Pacific		Solid			X	X		No Jars for 1/11/19
DUP-107 (720-90732-8)	1/11/19	Pacific		Solid		X	X	X		
~~DG-AW7S-0.5-1 (720-90732-9)~~	~~1/11/19~~	09:18 Pacific		Solid			X	X		No Jars for 1/11/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		1/14/19 1049	TAPLS			
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	1/15/19 1000	TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: IR54 4.0/4.4

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No.: 720-40782.2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90732-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: CA, 92614-5817	PO #			Other:
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #			
Email:	Project #: 72013947			
Project Name: Brisbane OU-2 Data Gap Investigation	SSOW#			
Site				

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	8082 PCB list	8260B LL/5035A_F_FW_7 4260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	NO JARS 1/11/19	Special Instructions/Note:
DG-AW7S-3.5-4 (720-90732-10) 1/11/19	1/11/19	09:20 Pacific		Solid			X	X		NO JARS 1/11/19

Page 66 of 66

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/14/19 10/49	TAPS			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by:	Date/Time 1/15/19 1000	Company TAPLV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2 8 9 4.0/4.4

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-90735-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/30/2019 5:48 PM

Urvashi Patel, Manager of Project Management
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01/30/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
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The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-90735-1

Comments
No additional comments.

Receipt
The samples were received on 1/11/2019 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.9º C, 1.7º C, 1.7º C, 2.1º C, 2.2º C, 3.0º C, 3.0º C, 3.3º C, 3.7º C and 3.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-523003 and analytical batch 440-523032 was outside control limits. Sample matrix interference is suspected.

Method 8015B: The matrix spike (MS) recoveries for preparation batch 440-523003 and analytical batch 440-523032 were outside control limits due to "olive yellow light emulsion." Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B: Surrogate recovery for the following 8015-DRO sample was outside control limits due to "light brown with light emulsion": DUP-107 (720-90735-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B: The following samples have possible laboratory contamination within the 8015-DRO silica gel cleanup (SGC) extraction procedure. The sample results should be considered possible high bias. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. DG-Q15W (720-90735-3) and DG-O15W (720-90735-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-258443 and analytical batch 720-258610 contained Arsenic and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3520C: Water sample contained excessive solid material, the 1-liter sample container had approximately 1 inch of sediment on the bottom of the bottle. Only the water portion was extracted. The sediment layer remained in the sample bottle and therefore the sample bottle could not be solvent rinsed.
DG-S15W (720-90735-1), DG-O15W (720-90735-4), DG-N13W (720-90735-5), DG-P13W (720-90735-7), DG-P13W (720-90735-7[MS]) and DG-P13W (720-90735-7[MSD])

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a015.d
Lims ID: 720-90735-G-1-A
Client ID: DG-S15W
Sample Type: Client
Inject. Date: 17-Jan-2019 12:38:55 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A

Method: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 17-Jan-2019 14:02:45 Calib Date: 30-Dec-2018 20:20:53
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0322

First Level Reviewer: barnettl Date: 17-Jan-2019 14:02:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.590	(1.887-7.293)		859894	260.3	
$ 127 n-Octacosane	7.103	7.108	-0.005	349994	107.4	
A 136 C24-C36	7.551	(5.907-9.195)		723417	219.0	

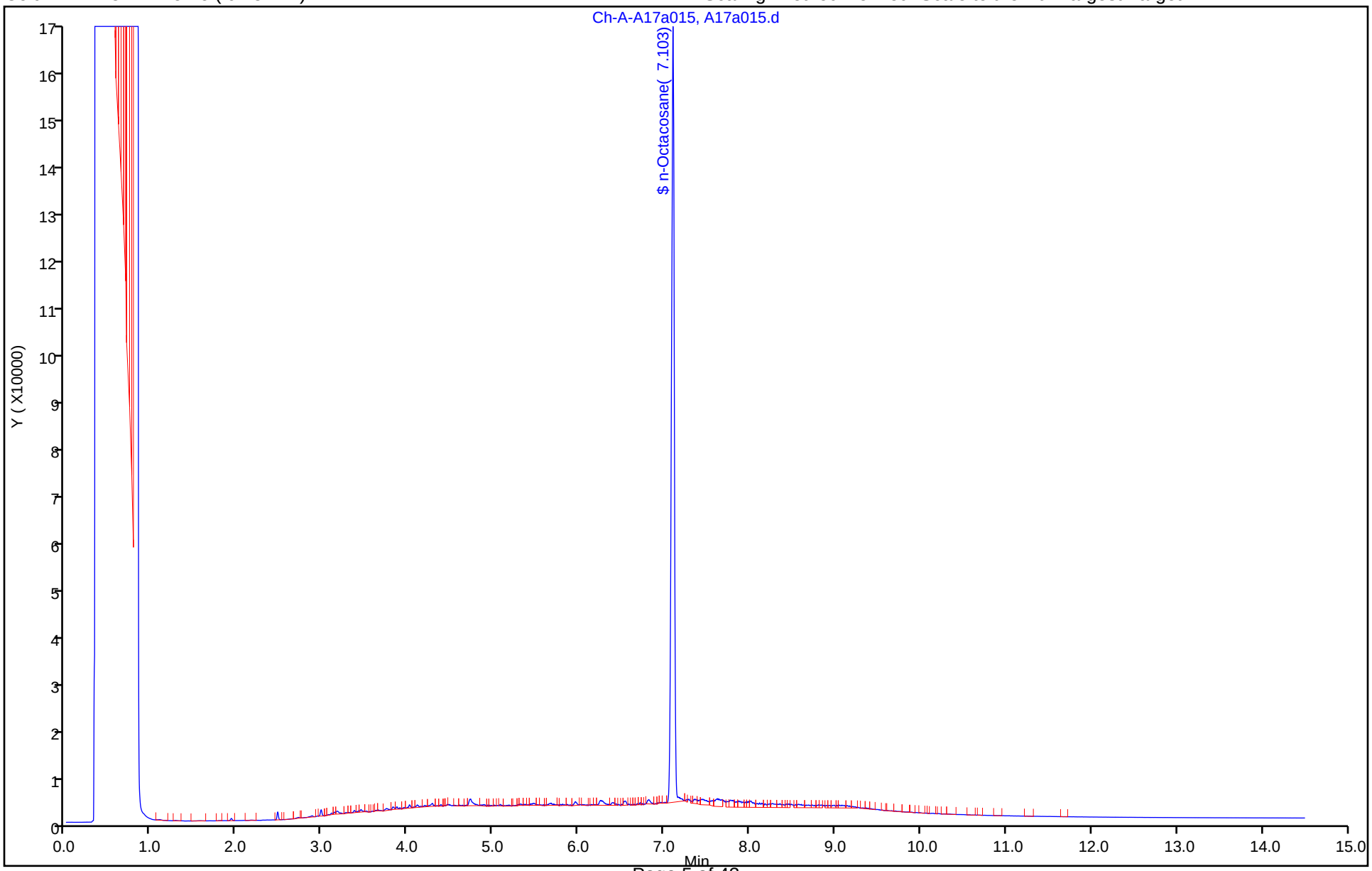
Report Date: 17-Jan-2019 14:02:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a015.d

Injection Date:	17-Jan-2019 12:38:55	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90735-G-1-A	Lab Sample ID:	440-90735-1	Worklist Smp#:	15
Client ID:	DG-S15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a015.d				
Lims ID:	720-90735-G-1-A				
Client ID:	DG-S15W				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 12:38:55	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:02:45	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				

First Level Reviewer: barnettl Date: 17-Jan-2019 14:02:45

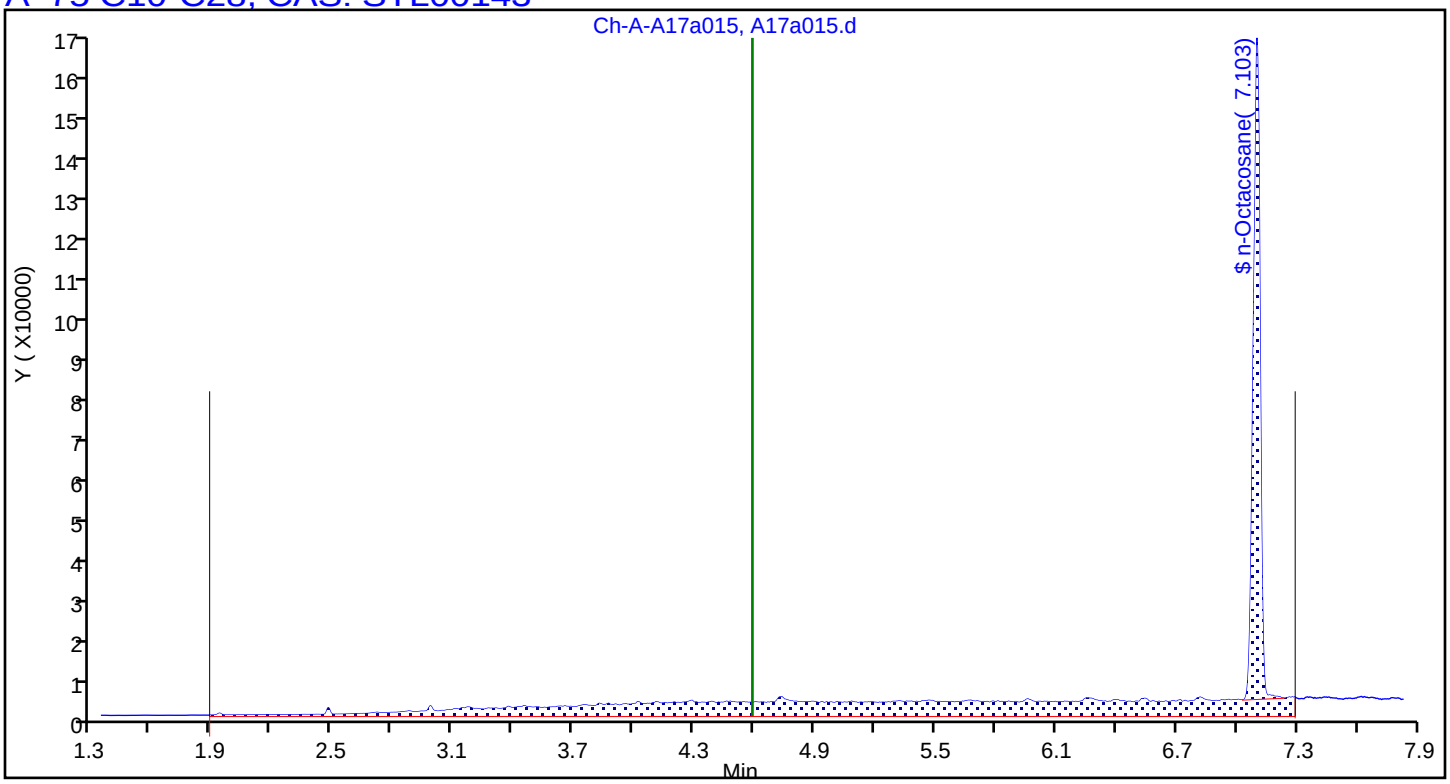
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	107.4	53.71

Report Date: 17-Jan-2019 14:02:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a015.d				
Injection Date:	17-Jan-2019 12:38:55	Instrument ID:	GC69A		
Lims ID:	720-90735-G-1-A	Lab Sample ID:	440-90735-1		
Client ID:	DG-S15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

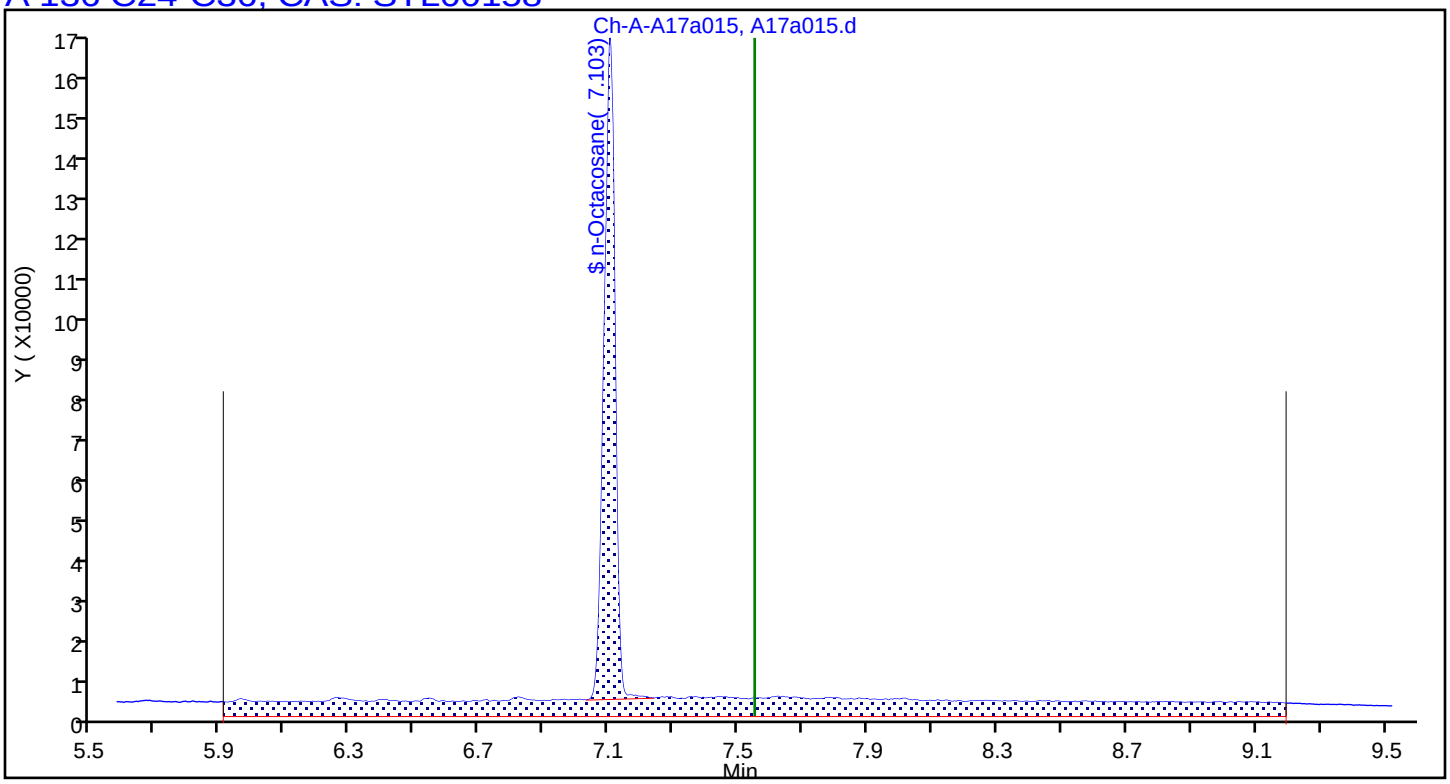


Report Date: 17-Jan-2019 14:02:46 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a015.d				
Injection Date:	17-Jan-2019 12:38:55	Instrument ID:	GC69A		
Lims ID:	720-90735-G-1-A	Lab Sample ID:	440-90735-1		
Client ID:	DG-S15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a016.d				
Lims ID:	720-90735-E-2-A				
Client ID:	DUP-107				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 12:59:13	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:03:04	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				
First Level Reviewer: barnettl		Date:	17-Jan-2019 14:03:04		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.590	(1.887-7.293)		489926	148.3	
$ 127 n-Octacosane	7.097	7.108	-0.011	261235	80.2	
A 136 C24-C36	7.551	(5.907-9.195)		402341	121.8	

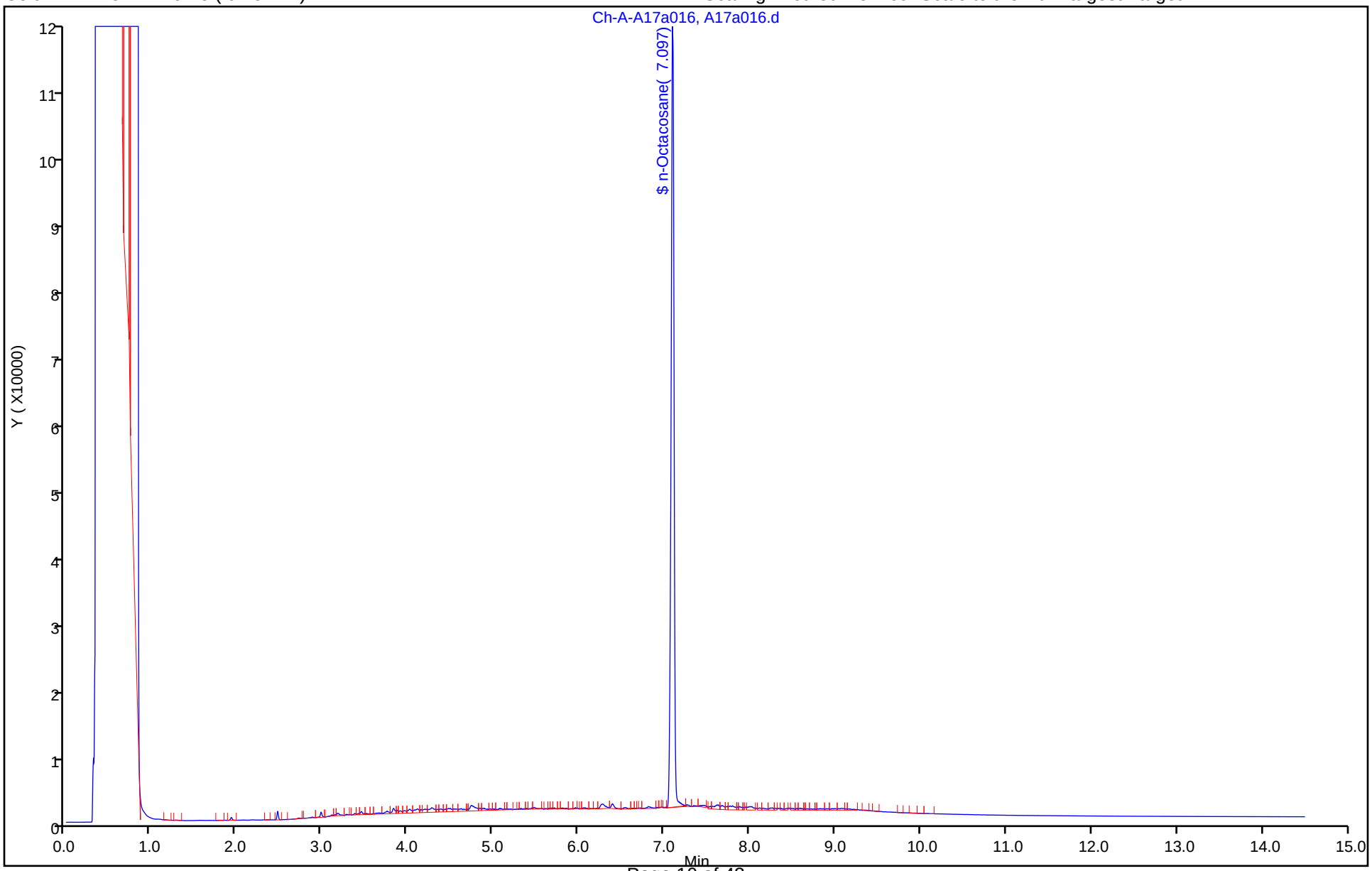
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a016.d

Injection Date:	17-Jan-2019 12:59:13	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90735-E-2-A	Lab Sample ID:	440-90735-2	Worklist Smp#:	16
Client ID:	DUP-107				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a016.d				
Lims ID:	720-90735-E-2-A				
Client ID:	DUP-107				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 12:59:13	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:03:04	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				

First Level Reviewer: barnettl Date: 17-Jan-2019 14:03:04

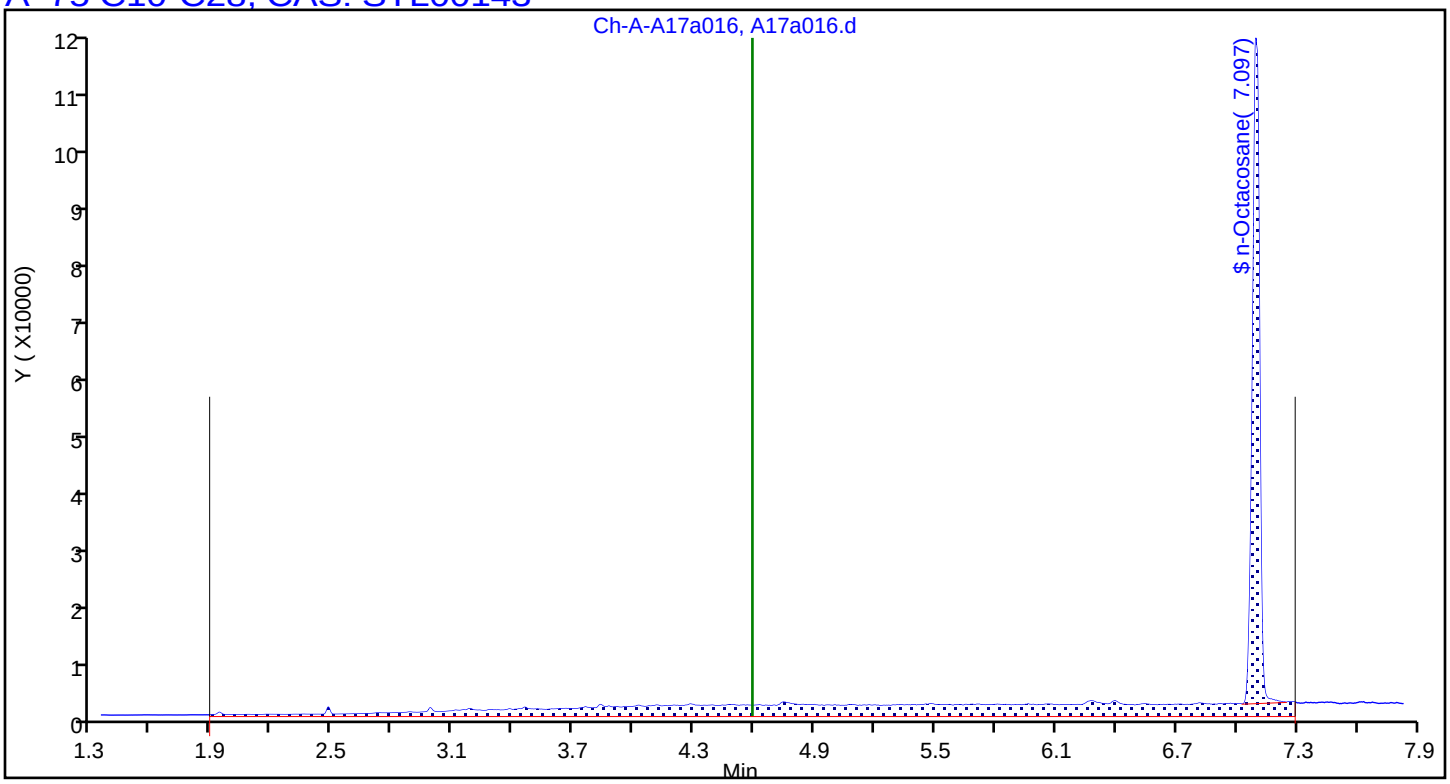
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	80.2	40.09

Report Date: 17-Jan-2019 14:03:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a016.d				
Injection Date:	17-Jan-2019 12:59:13	Instrument ID:	GC69A		
Lims ID:	720-90735-E-2-A	Lab Sample ID:	440-90735-2		
Client ID:	DUP-107				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

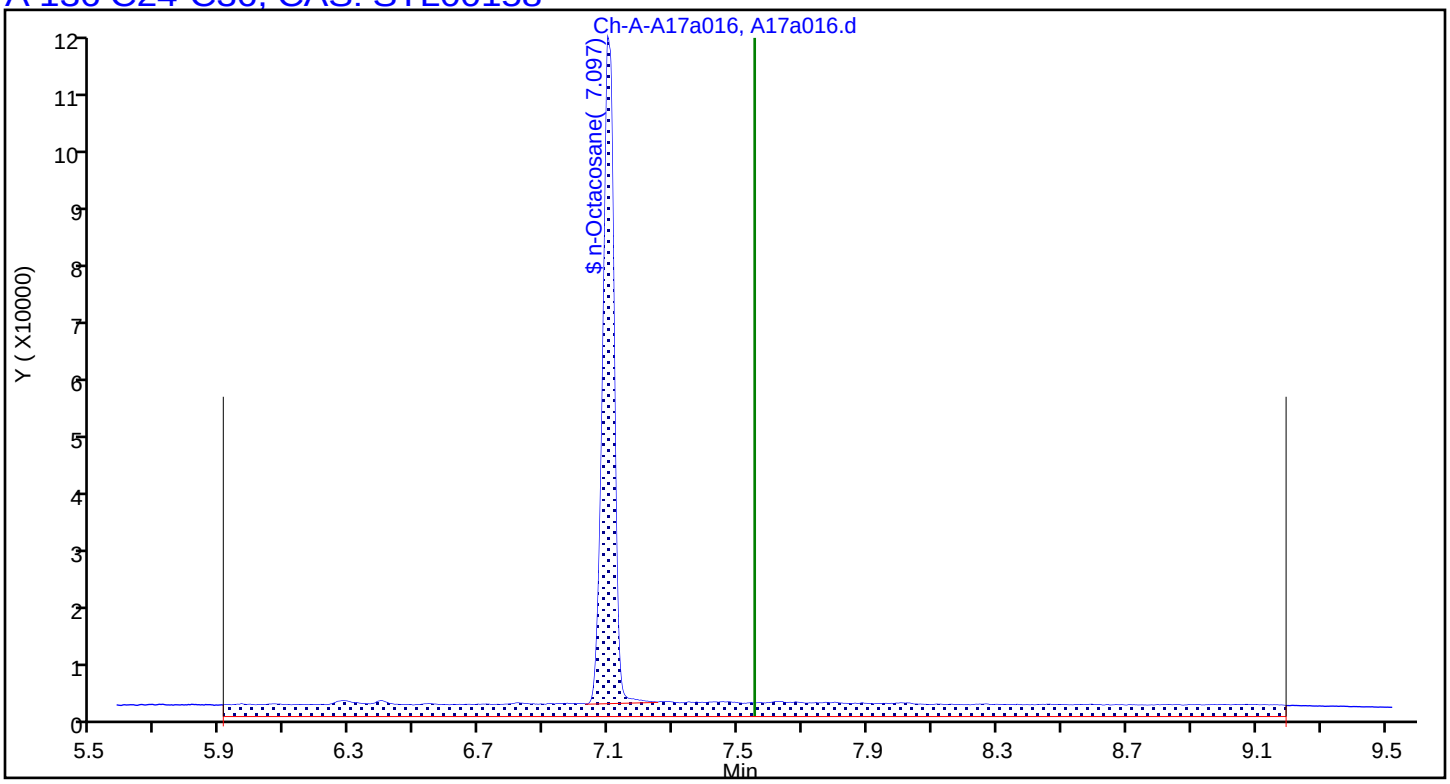


Report Date: 17-Jan-2019 14:03:04 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a016.d				
Injection Date:	17-Jan-2019 12:59:13	Instrument ID:	GC69A		
Lims ID:	720-90735-E-2-A	Lab Sample ID:	440-90735-2		
Client ID:	DUP-107				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a017.d				
Lims ID:	720-90735-G-3-A				
Client ID:	DG-Q15W				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 13:19:40	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:03:36	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				
First Level Reviewer: barnettl		Date:	17-Jan-2019 14:03:36		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.599	(1.905-7.293)		605680	183.3	
$ 127 n-Octacosane	7.103	7.108	-0.005	389739	119.6	
A 136 C24-C36	7.551	(5.907-9.195)		395315	119.7	

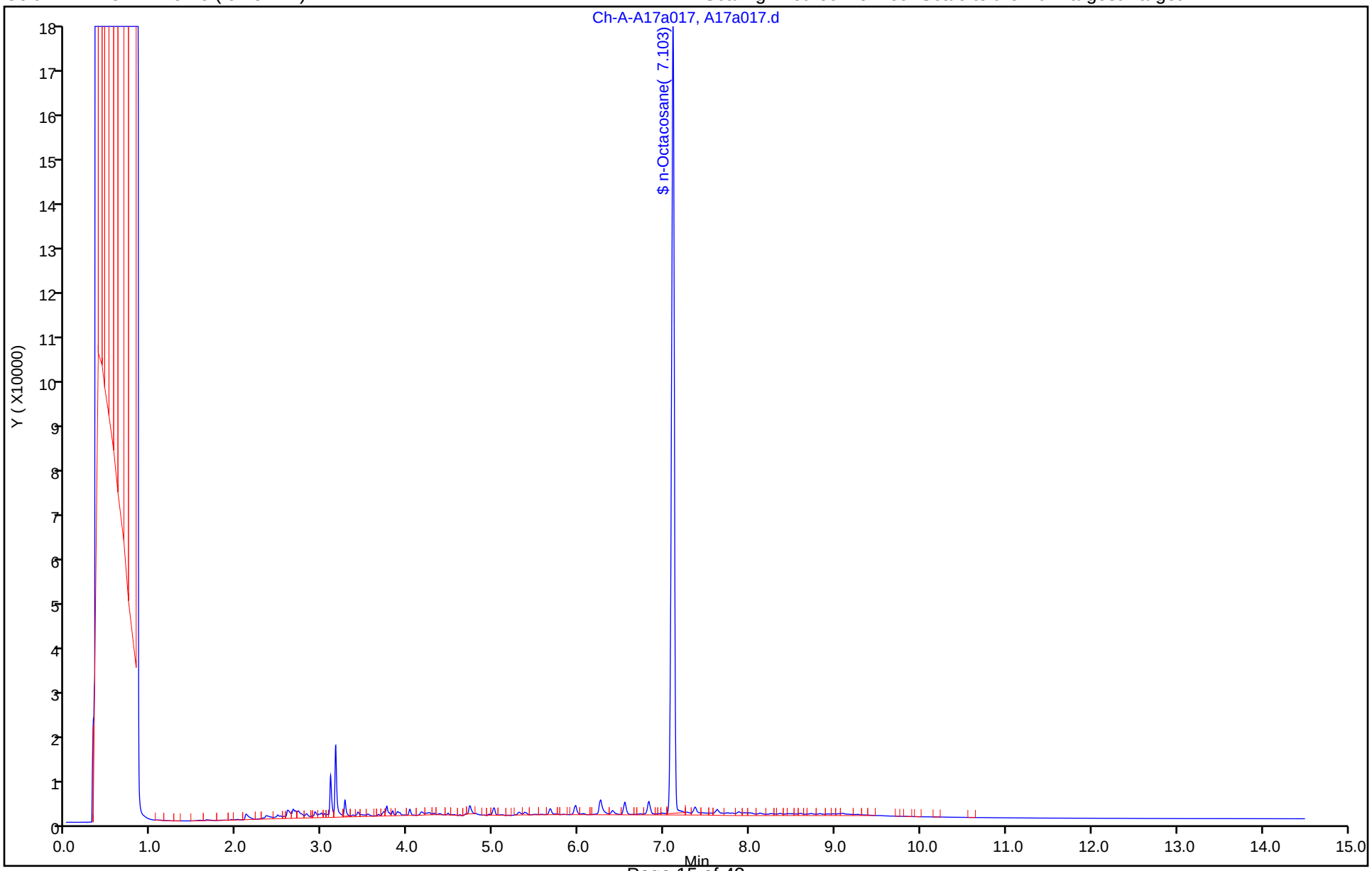
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a017.d

Injection Date:	17-Jan-2019 13:19:40	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90735-G-3-A	Lab Sample ID:	440-90735-3	Worklist Smp#:	17
Client ID:	DG-Q15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a017.d				
Lims ID:	720-90735-G-3-A				
Client ID:	DG-Q15W				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 13:19:40	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:03:36	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				

First Level Reviewer: barnettl Date: 17-Jan-2019 14:03:36

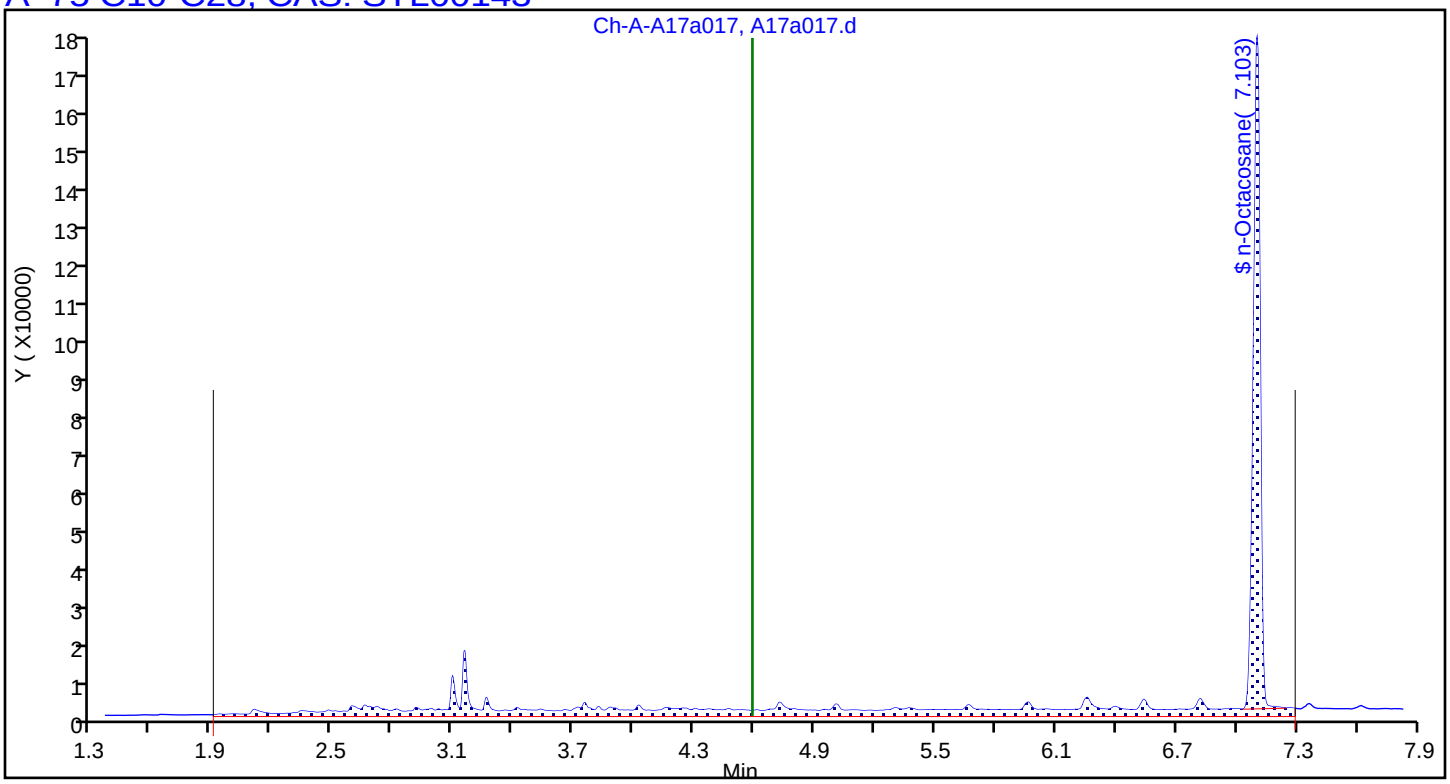
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	119.6	59.81

Report Date: 17-Jan-2019 14:03:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a017.d				
Injection Date:	17-Jan-2019 13:19:40	Instrument ID:	GC69A		
Lims ID:	720-90735-G-3-A	Lab Sample ID:	440-90735-3		
Client ID:	DG-Q15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143



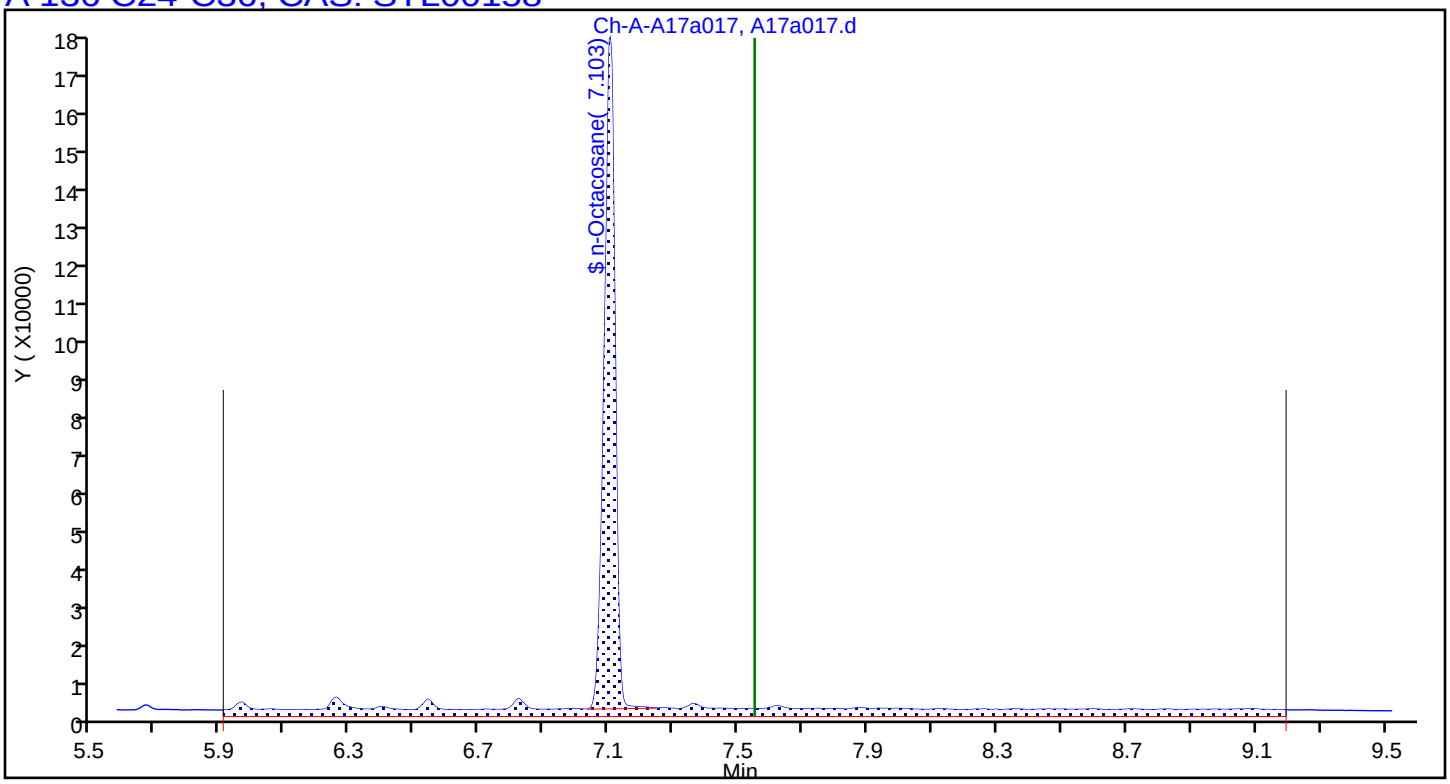
Report Date: 17-Jan-2019 14:03:37 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a017.d

Injection Date:	17-Jan-2019 13:19:40	Instrument ID:	GC69A		
Lims ID:	720-90735-G-3-A	Lab Sample ID:	440-90735-3		
Client ID:	DG-Q15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a018.d				
Lims ID:	720-90735-E-4-A				
Client ID:	DG-O15W				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 13:40:05	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:04:31	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				
First Level Reviewer: barnettl		Date:	17-Jan-2019 14:04:31		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.597	(1.900-7.293)		425893	128.9	
$ 127 n-Octacosane	7.105	7.108	-0.003	353668	108.6	
A 136 C24-C36	7.551	(5.907-9.195)		335411	101.5	

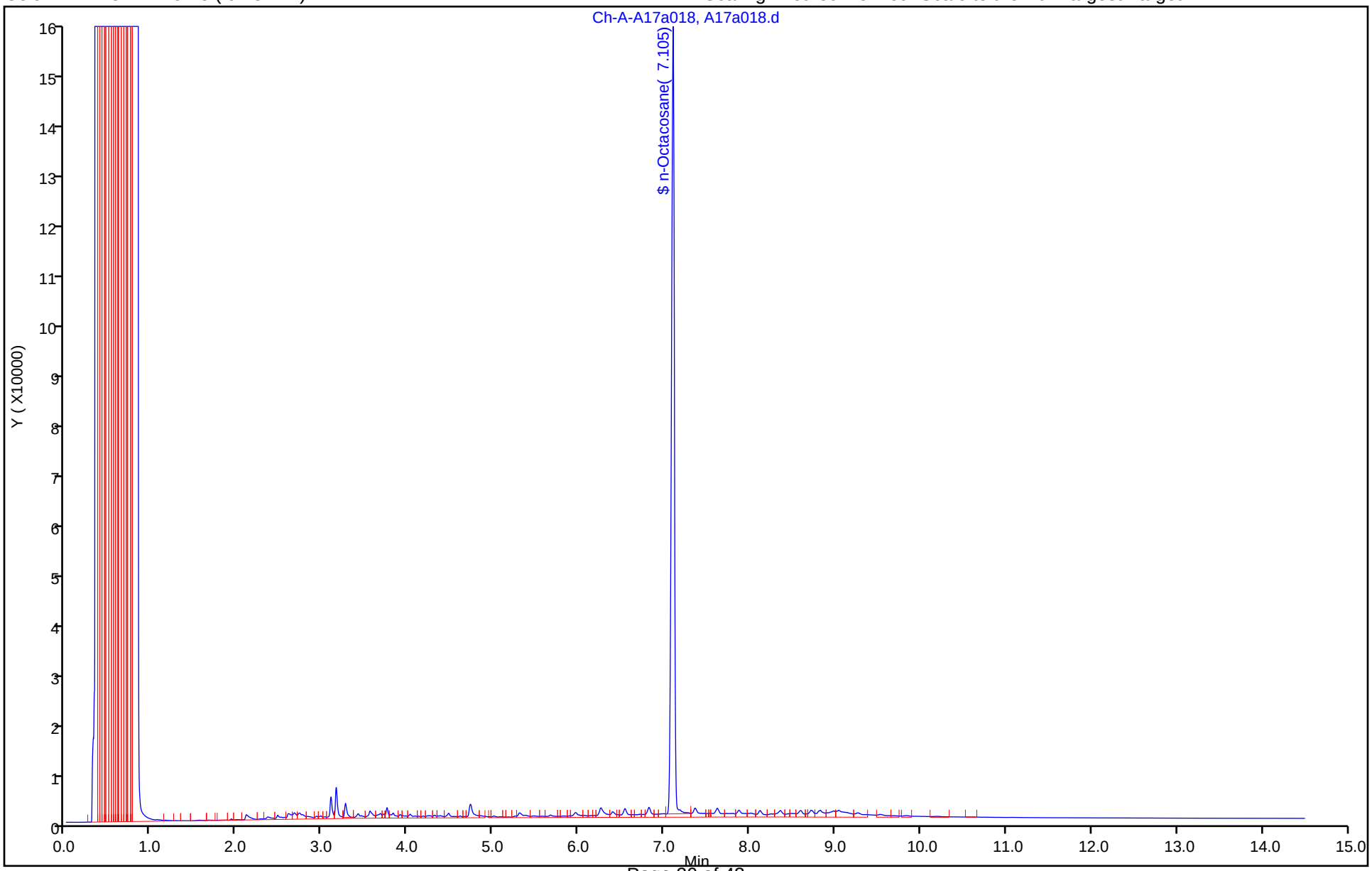
Report Date: 17-Jan-2019 14:04:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a018.d

Injection Date:	17-Jan-2019 13:40:05	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90735-E-4-A	Lab Sample ID:	440-90735-4	Worklist Smp#:	18
Client ID:	DG-O15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a018.d				
Lims ID:	720-90735-E-4-A				
Client ID:	DG-O15W				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 13:40:05	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:04:31	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				

First Level Reviewer: barnettl Date: 17-Jan-2019 14:04:31

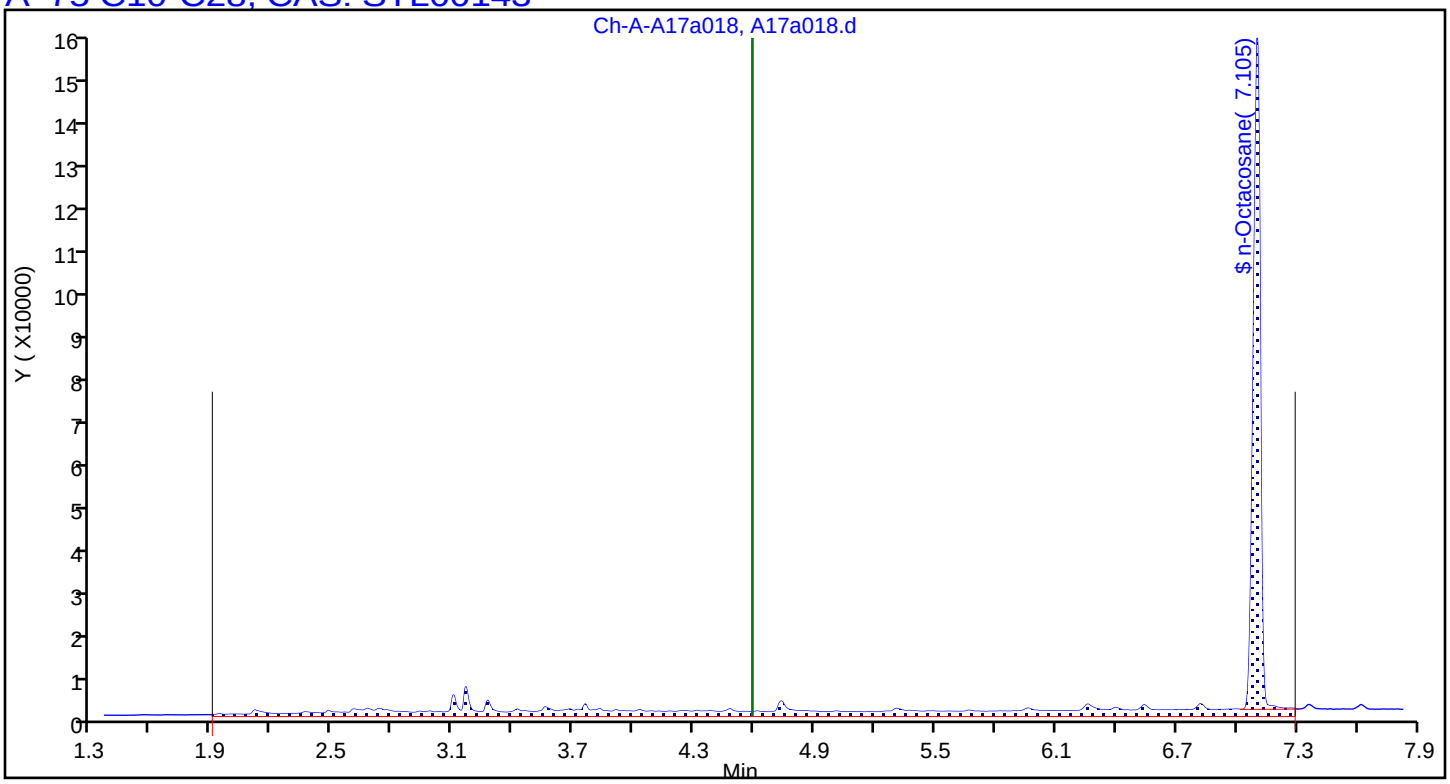
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	108.6	54.28

Report Date: 17-Jan-2019 14:04:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a018.d				
Injection Date:	17-Jan-2019 13:40:05	Instrument ID:	GC69A		
Lims ID:	720-90735-E-4-A	Lab Sample ID:	440-90735-4		
Client ID:	DG-O15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

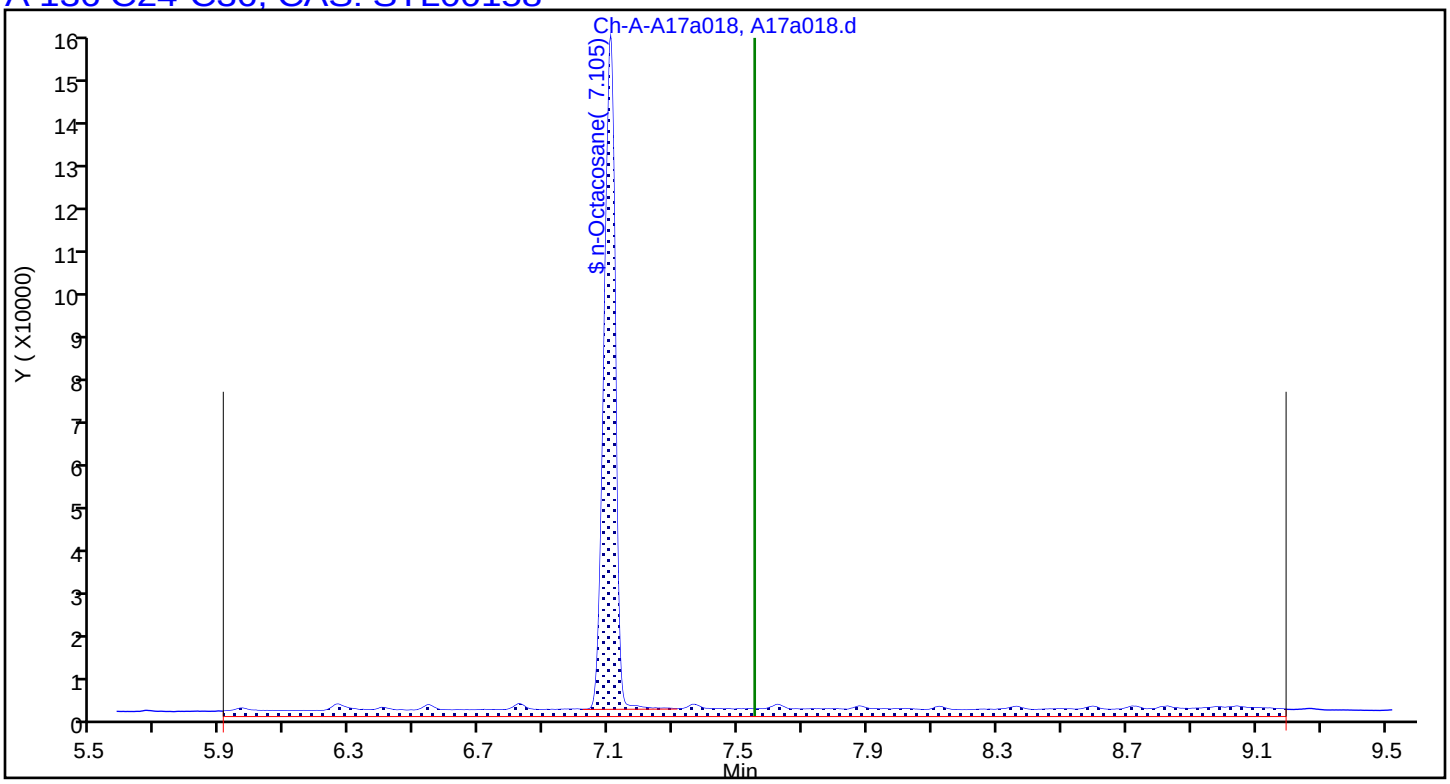


Report Date: 17-Jan-2019 14:04:31 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a018.d				
Injection Date:	17-Jan-2019 13:40:05	Instrument ID:	GC69A		
Lims ID:	720-90735-E-4-A	Lab Sample ID:	440-90735-4		
Client ID:	DG-O15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a020.d				
Lims ID:	720-90735-E-5-A				
Client ID:	DG-N13W				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 14:20:39	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:55:11	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				
First Level Reviewer: barnettl		Date:	17-Jan-2019 14:55:11		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.590	(1.887-7.293)		251884	76.2	
$ 127 n-Octacosane	7.105	7.108	-0.003	379916	116.6	
A 136 C24-C36	7.551	(5.907-9.195)		168888	51.1	

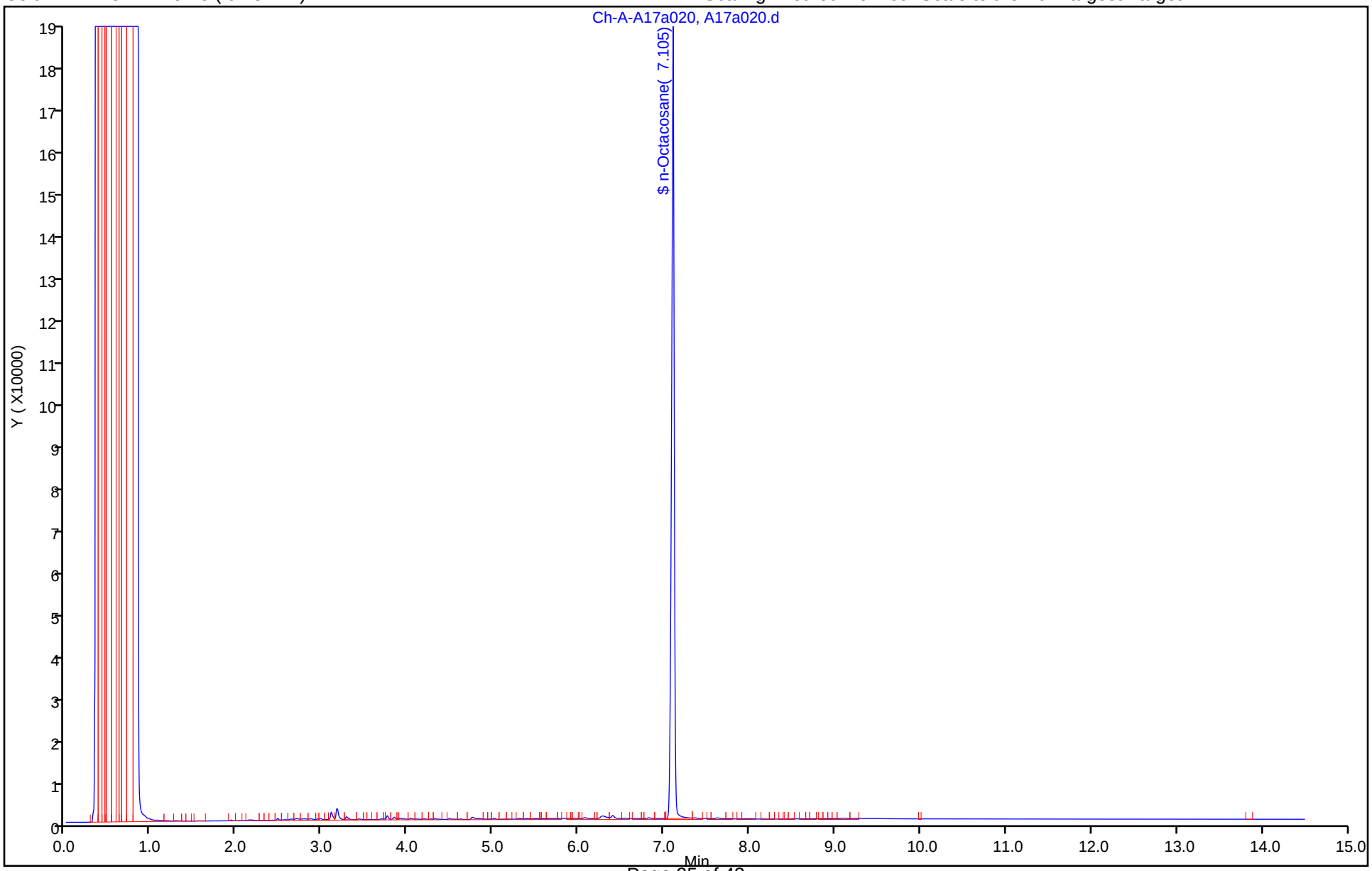
Report Date: 17-Jan-2019 14:55:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a020.d

Injection Date:	17-Jan-2019 14:20:39	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90735-E-5-A	Lab Sample ID:	440-90735-5	Worklist Smp#:	20
Client ID:	DG-N13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a020.d				
Lims ID:	720-90735-E-5-A				
Client ID:	DG-N13W				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 14:20:39	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:55:11	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				
First Level Reviewer: barnettl		Date:	17-Jan-2019 14:55:11		

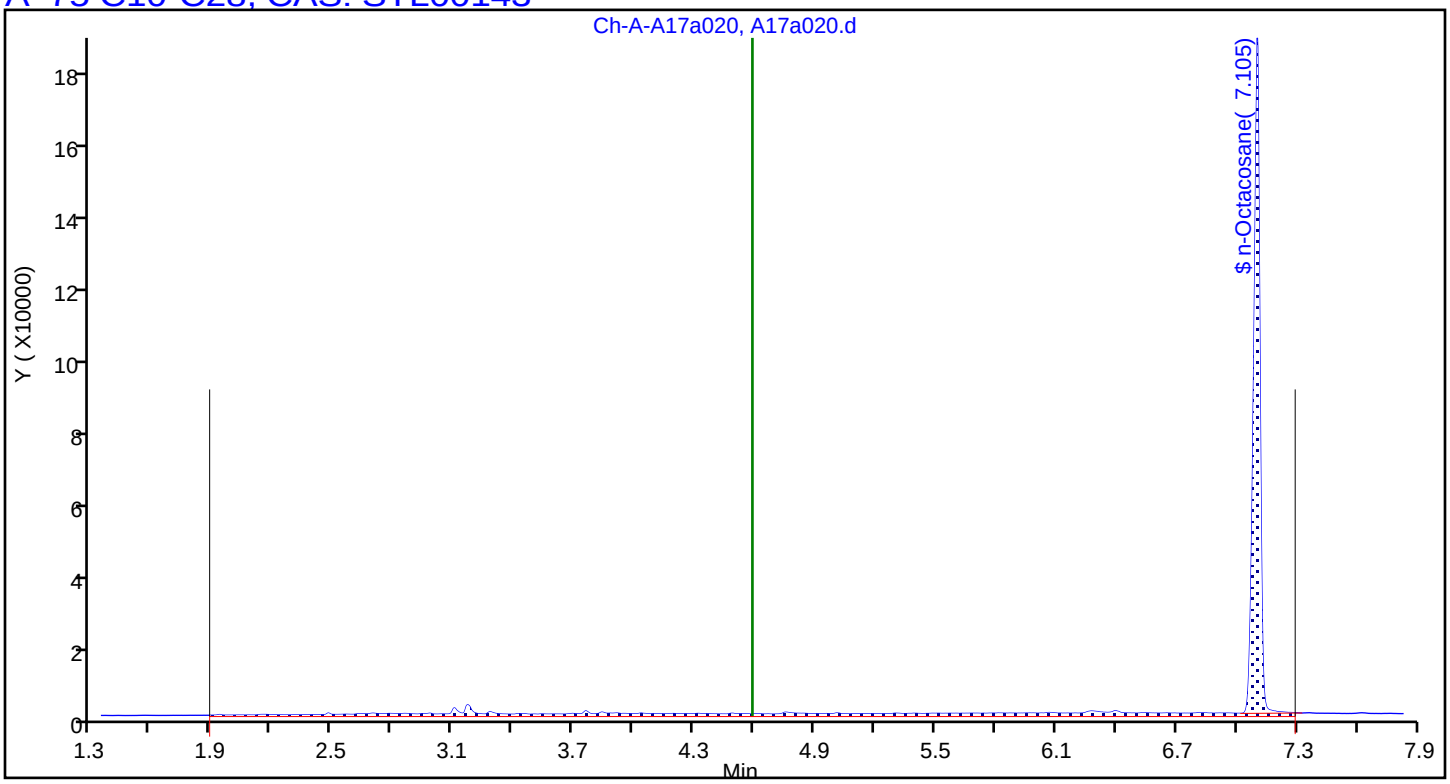
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	116.6	58.30

Report Date: 17-Jan-2019 14:55:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a020.d				
Injection Date:	17-Jan-2019 14:20:39	Instrument ID:	GC69A		
Lims ID:	720-90735-E-5-A	Lab Sample ID:	440-90735-5		
Client ID:	DG-N13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143



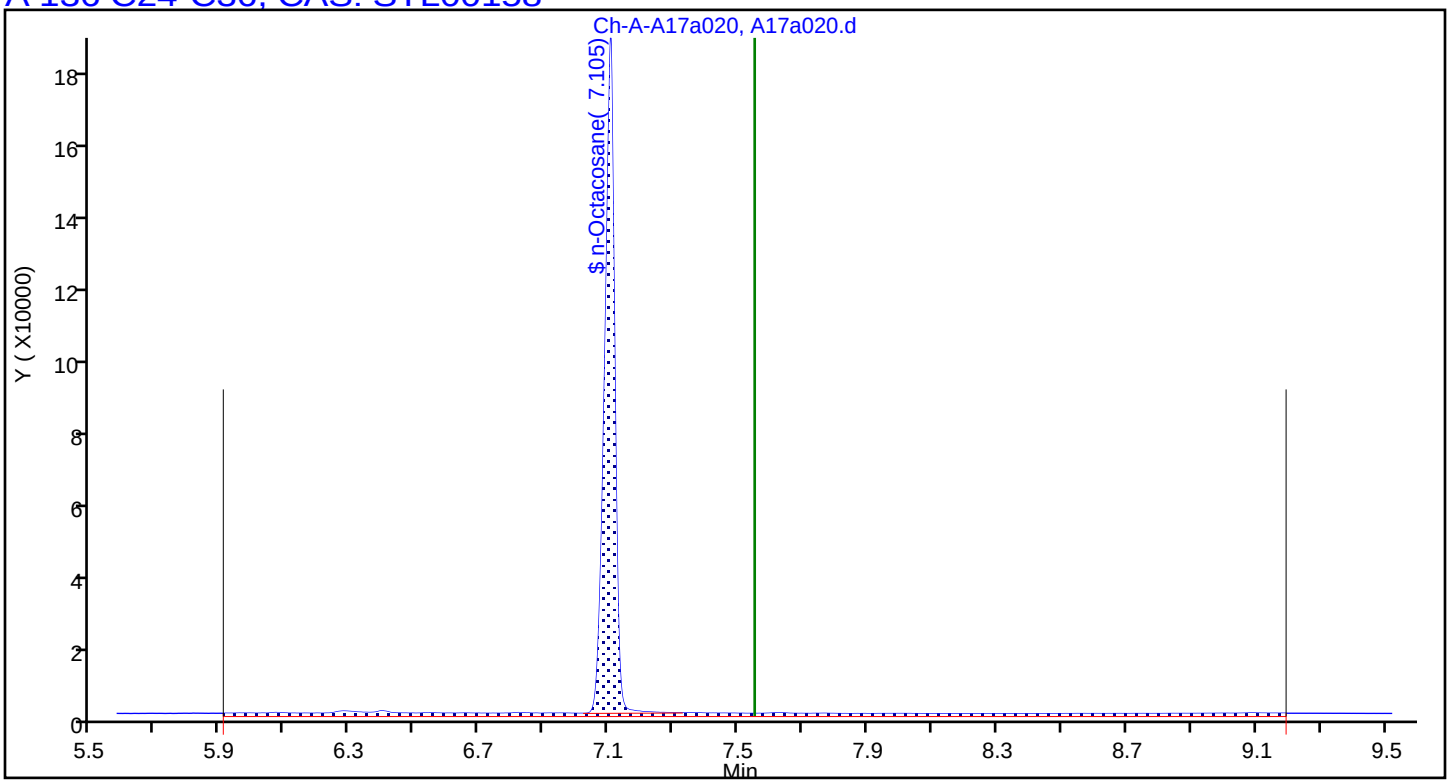
Report Date: 17-Jan-2019 14:55:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a020.d

Injection Date:	17-Jan-2019 14:20:39	Instrument ID:	GC69A		
Lims ID:	720-90735-E-5-A	Lab Sample ID:	440-90735-5		
Client ID:	DG-N13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a021.d				
Lims ID:	720-90735-G-6-A				
Client ID:	DUP-89				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 14:41:07	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 15:33:23	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				
First Level Reviewer: barnettl		Date:	17-Jan-2019 15:33:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.590	(1.887-7.293)		202815	61.4	
$ 127 n-Octacosane	7.103	7.108	-0.005	405562	124.5	
A 136 C24-C36	7.551	(5.907-9.195)		169381	51.3	

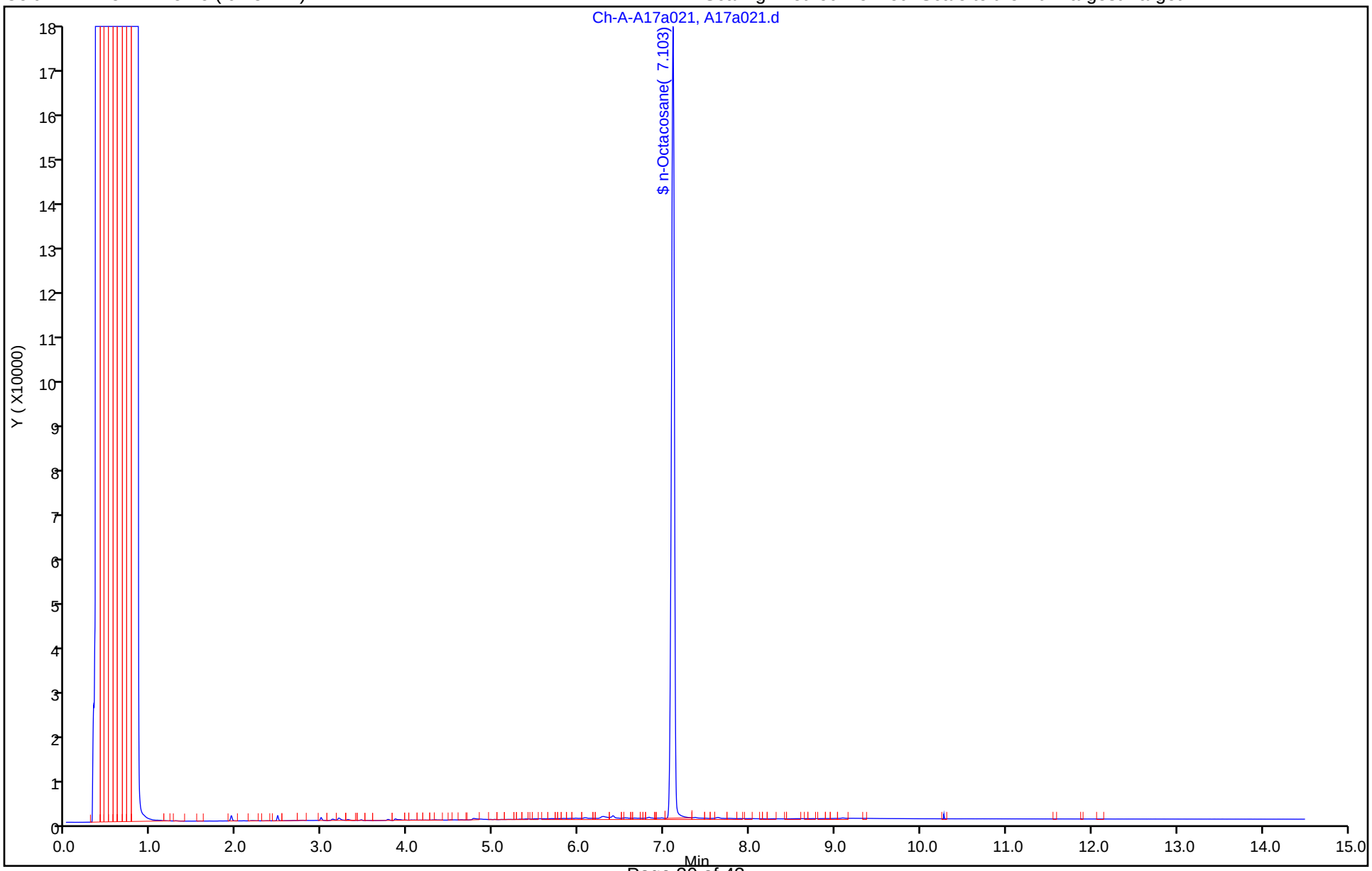
Report Date: 17-Jan-2019 15:33:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a021.d

Injection Date:	17-Jan-2019 14:41:07	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90735-G-6-A	Lab Sample ID:	440-90735-6	Worklist Smp#:	21
Client ID:	DUP-89				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a021.d
Lims ID: 720-90735-G-6-A
Client ID: DUP-89
Sample Type: Client
Inject. Date: 17-Jan-2019 14:41:07 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A

Method: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 17-Jan-2019 15:33:23 Calib Date: 30-Dec-2018 20:20:53
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0322

First Level Reviewer: barnettl Date: 17-Jan-2019 15:33:23

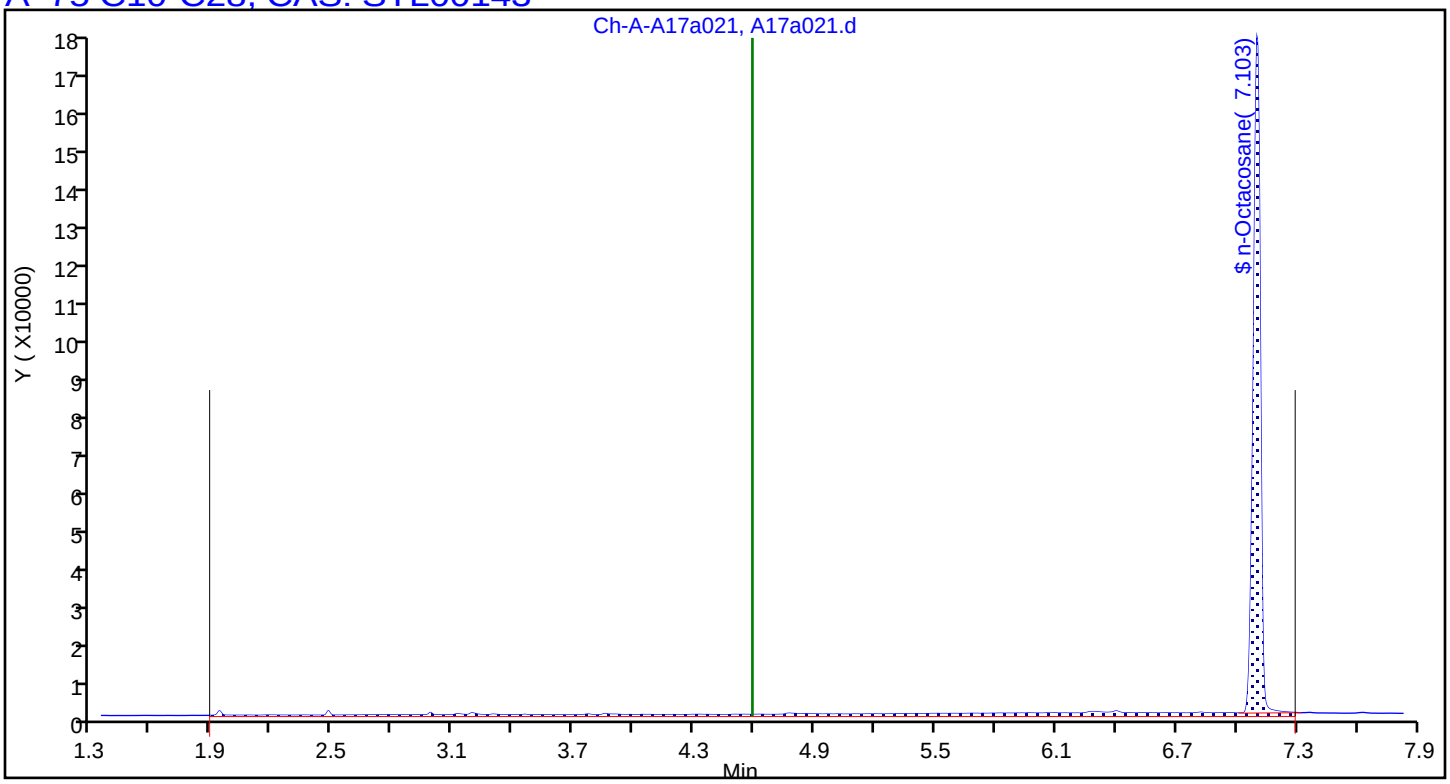
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	124.5	62.24

Report Date: 17-Jan-2019 15:33:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a021.d				
Injection Date:	17-Jan-2019 14:41:07	Instrument ID:	GC69A		
Lims ID:	720-90735-G-6-A	Lab Sample ID:	440-90735-6		
Client ID:	DUP-89				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143



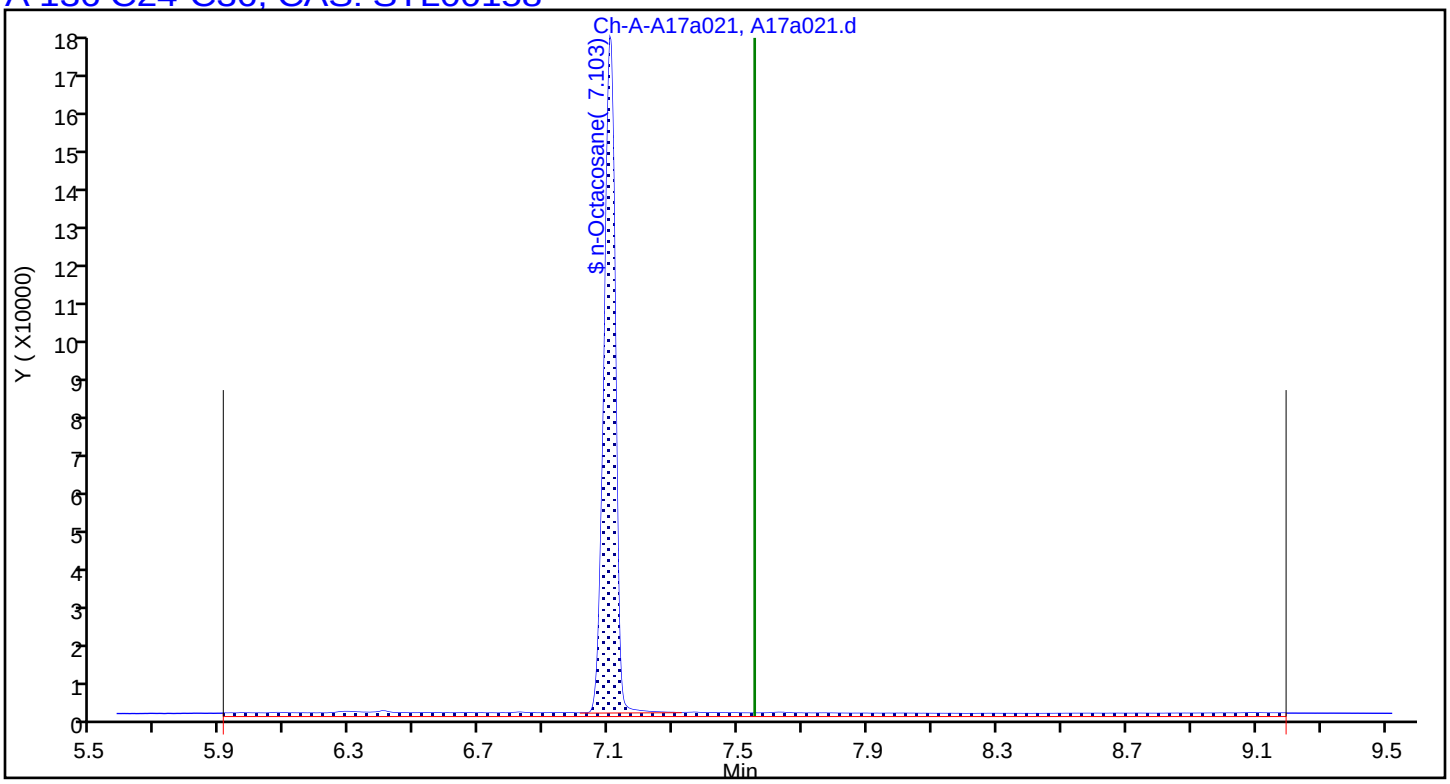
Report Date: 17-Jan-2019 15:33:24 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a021.d

Injection Date:	17-Jan-2019 14:41:07	Instrument ID:	GC69A		
Lims ID:	720-90735-G-6-A	Lab Sample ID:	440-90735-6		
Client ID:	DUP-89				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a012.d
Lims ID: 720-90735-D-7-C
Client ID: DG-P13W
Sample Type: Client
Inject. Date: 17-Jan-2019 11:37:41 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A

Method: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 17-Jan-2019 14:00:59 Calib Date: 30-Dec-2018 20:20:53
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0322

First Level Reviewer: barnettl Date: 17-Jan-2019 14:00:59

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 2 C7 Range	0.699	(0.402-0.997)		25876667	7832.4	
A 4 C8 Range	1.221	(0.997-1.445)		9703	2.94	
A 6 C8-C9	1.442	(0.997-1.887)		17278	5.23	
A 8 C8-C10	1.627	(0.997-2.257)		25142	7.61	
A 9 C9 Range	1.666	(1.445-1.887)		7575	2.29	
A 10 C8-C11	1.798	(0.997-2.598)		33438	10.1	
A 11 C9-C10	1.851	(1.445-2.257)		15438	4.67	
A 12 C7-C14	1.919	(0.402-3.437)		25941961	7852.2	
A 14 C10 Range	2.072	(1.887-2.257)		7863	2.38	
A 15 C9-C12	2.168	(1.445-2.890)		33877	10.3	
A 16 C10-C11	2.243	(1.887-2.598)		16159	4.89	
A 196 C9-C13	2.304	(1.445-3.163)		44744	13.5	
A 20 C8-C15	2.351	(0.997-3.705)		75497	22.9	
A 21 C10-C12	2.388	(1.887-2.890)		26301	7.96	
A 22 C11 Range	2.428	(2.257-2.598)		8296	2.51	
A 23 C8-C16	2.476	(0.997-3.955)		88320	26.7	
A 24 C11-C12	2.573	(2.257-2.890)		18438	5.58	
A 30 C9-C16	2.700	(1.445-3.955)		78617	23.8	
A 27 C8-C18	2.729	(0.997-4.462)		115007	30.8	
A 29 C8-C18 DRO	2.729	(0.997-4.462)		115007	34.8	
A 31 C12 Range	2.744	(2.598-2.890)		10142	3.07	
A 32 C9 - C17	2.833	(1.445-4.222)		92379	28.0	
A 33 C12-C13	2.881	(2.598-3.163)		21009	6.36	
35 C13	2.985	2.928	0.057	573	0.1734	
A 34 C9 - C18	2.953	(1.445-4.462)		105303	31.9	
A 36 C12-C14	3.018	(2.598-3.437)		31855	9.64	
A 37 C13 Range	3.027	(2.890-3.163)		10867	3.29	
A 38 C13-C14	3.163	(2.890-3.437)		21713	6.57	
A 199 C10-C18	3.174	(1.887-4.462)		97728	29.6	
39 n-Tetradecane	3.285	3.213	0.072	314	0.0950	
A 40 C8-C22	3.253	(0.997-5.508)		174651	52.9	
A 41 C13-C15	3.298	(2.890-3.705)		31916	9.66	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 43 C14 Range	3.300	(3.163-3.437)		10845	3.28	
A 44 C14-C15	3.434	(3.163-3.705)		21049	6.37	
A 46 C10-C21	3.551	(1.887-5.215)		140955	42.7	
A 48 C14-C16	3.559	(3.163-3.955)		33873	10.3	
A 47 C8-C24	3.597	(0.997-6.197)		212875	64.4	
A 49 C15-C16	3.696	(3.437-3.955)		23026	6.97	
A 50 C10-C22	3.698	(1.887-5.508)		157373	47.6	
A 52 C9-C24	3.821	(1.445-6.197)		203172	61.5	
A 55 C11-C22	3.883	(2.257-5.508)		149509	45.3	
A 53 C10-C23	3.897	(1.887-5.907)		179386	54.3	
A 54 C12-C21	3.907	(2.598-5.215)		124795	37.8	
A 56 C16-C17	3.963	(3.705-4.222)		26585	8.05	
A 57 C9-C25	3.965	(1.445-6.485)		224107	67.8	
A 58 C10-C24	4.042	(1.887-6.197)		195596	59.2	
A 60 C12-C22	4.053	(2.598-5.508)		141213	42.7	
A 61 C8-C28	4.145	(0.997-7.293)		279731	84.7	
A 64 C15-C20	4.183	(3.437-4.930)		78418	23.7	
A 63 C10-C25	4.186	(1.887-6.485)		216532	65.5	
A 66 C13-C22	4.199	(2.890-5.508)		131071	39.7	
A 65 C17-C18	4.208	(3.955-4.462)		26686	8.08	
A 67 C12-C23	4.253	(2.598-5.907)		163226	49.4	
A 71 C12-C24	4.398	(2.598-6.197)		179436	54.3	
A 70 C13-C23	4.398	(2.890-5.907)		153084	46.3	
A 69 C8-C30	4.401	(0.997-7.805)		313080	94.8	
A 72 C18-C19	4.483	(4.222-4.743)		29093	8.81	
74 C19	4.480	4.528	-0.048	596	0.1804	
A 62 Diesel	4.590	(1.887-7.293)		167079	50.6	
A 75 C10-C28	4.590	(1.887-7.293)		262452	79.4	
A 77 C16-C22	4.607	(3.705-5.508)		99154	30.0	
A 76 C8-C32	4.645	(0.997-8.293)		344440	104.3	
A 78 C19-C20	4.696	(4.462-4.930)		28704	8.69	
A 87 C7-C36	4.798	(0.402-9.195)		26284543	7955.9	
A 80 C10-C30	4.846	(1.887-7.805)		295801	89.5	
A 81 C8-C34	4.868	(0.997-8.740)		374414	113.3	
A 197 C13-C27	4.951	(2.890-7.012)		219765	66.5	
A 82 C20-C21	4.979	(4.743-5.215)		27057	8.19	
A 84 C10-C32	5.090	(1.887-8.293)		327162	99.0	
A 85 C13-C28	5.092	(2.890-7.293)		236150	71.5	
A 83 C8-C36	5.096	(0.997-9.195)		407875	123.5	
A 88 C21-C22	5.219	(4.930-5.508)		30939	9.36	
A 89 C20-C23	5.325	(4.743-5.907)		65488	19.8	
A 90 C13-C30	5.348	(2.890-7.805)		269499	81.6	
A 93 C10-C36	5.541	(1.887-9.195)		390597	118.2	
A 92 C22-C23	5.561	(5.215-5.907)		38431	11.6	
A 94 C13-C32	5.592	(2.890-8.293)		300860	91.1	
A 95 C12-C34	5.669	(2.598-8.740)		340975	103.2	
A 97 C8-C40	5.718	(0.997-10.438)		492076	148.9	
A 198 C18-C28	5.758	(4.222-7.293)		177648	53.8	
A 98 C23-C24	5.853	(5.508-6.197)		38223	11.6	
A 99 C9-C40	5.927	(1.445-10.408)		480490	145.4	
A 100 C18-C30	6.013	(4.222-7.805)		210997	63.9	
A 102 C13-C36	6.043	(2.890-9.195)		364295	110.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 209 C17-C32	6.124	(3.955-8.293)		256120	77.5	
A 104 C10-C40	6.163	(1.887-10.438)		474797	143.7	
A 103 C24-C25	6.196	(5.907-6.485)		37145	11.2	
105 C25	6.278	6.262	0.016	3687	1.12	
A 106 C21-C30	6.368	(4.930-7.805)		169368	51.3	
A 108 C16-C36	6.450	(3.705-9.195)		332378	100.6	
A 107 C24-C27	6.459	(5.907-7.012)		66681	20.2	
A 109 C25-C26	6.478	(6.197-6.758)		35780	10.8	
A 110 C20-C32	6.518	(4.743-8.293)		213264	64.6	
A 112 C17-C36	6.575	(3.955-9.195)		319554	96.7	
A 116 C13 - C40	6.664	(2.890-10.438)		448495	135.8	
A 115 C13-C40	6.664	(2.890-10.438)		448495	135.8	
A 114 C18-C36	6.708	(4.222-9.195)		305792	92.6	
A 121 C8-C44	6.713	(0.997-12.428)		609856	184.6	
A 117 C25-C28	6.745	(6.197-7.293)		66855	20.2	
A 118 C26-C27	6.748	(6.485-7.012)		29535	8.94	
A 119 C22-C32	6.754	(5.215-8.293)		186206	56.4	
120 C27	6.827	6.832	-0.005	711	0.2152	
A 122 C23-C32	6.901	(5.508-8.293)		169789	51.4	
A 210 C20-C36	6.969	(4.743-9.195)		276699	83.8	
A 123 C27-C28	7.026	(6.758-7.293)		31075	9.41	
A 126 C16-C40	7.067	(3.705-10.428)		415952	125.9	
A 124 C22-C35	7.082	(5.215-8.948)		230899	69.9	
A 125 C24-C32	7.100	(5.907-8.293)		147775	44.7	
$ 127 n-Octacosane	7.103	7.108	-0.005	419700	128.8	
A 128 C23-C34	7.124	(5.508-8.740)		199762	60.5	
A 132 C10-C44	7.158	(1.887-12.428)		592577	179.4	
A 129 C23-C35	7.228	(5.508-8.948)		214481	64.9	
A 130 C28-C29	7.263	(7.012-7.515)		30763	9.31	
A 131 C18-C40	7.330	(4.222-10.438)		389993	118.0	
A 133 C23-C36	7.352	(5.508-9.195)		233224	70.6	
134 C29	7.367	7.372	-0.005	464	0.1404	
A 135 C19-C40	7.450	(4.462-10.438)		377068	114.1	
A 138 C28-C31	7.517	(7.012-8.022)		63882	19.3	
A 136 C24-C36	7.551	(5.907-9.195)		211210	63.9	
A 139 C20-C40	7.591	(4.743-10.438)		360899	109.2	
A 144 C13-C44	7.659	(2.890-12.428)		566275	171.4	
A 141 C25-C36	7.696	(6.197-9.195)		195000	59.0	
A 142 C30-C31	7.768	(7.515-8.022)		33118	10.0	
145 C31	7.863	7.882	-0.019	237	0.0717	
A 146 C23-C40	7.973	(5.508-10.438)		317424	96.1	
A 147 C31-C32	8.049	(7.805-8.293)		31360	9.49	
A 148 C28-C36	8.103	(7.012-9.195)		144529	43.7	
A 150 C24-C40	8.173	(5.907-10.438)		295410	89.4	
A 153 C17-C44	8.177	(3.955-12.398)		519833	157.3	
A 151 C25-C40	8.318	(6.197-10.438)		279200	84.5	
152 C33	8.348	8.370	-0.022	554	0.1677	
A 154 C32-C35	8.485	(8.022-8.948)		61904	18.7	
A 155 C33-C34	8.517	(8.293-8.740)		29973	9.07	
A 157 C32-C36	8.608	(8.022-9.195)		80646	24.4	
A 158 C33-C36	8.744	(8.293-9.195)		63434	19.2	
A 161 C35-C36	8.968	(8.740-9.195)		33461	10.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 164 C23-C44	8.968	(5.508-12.428)		435204	131.7	
A 163 C31-C40	9.122	(7.805-10.438)		178995	54.2	
A 166 C24-C44	9.168	(5.907-12.428)		413190	125.1	
A 167 C33-C40	9.366	(8.293-10.438)		147635	44.7	
A 168 C37-C38	9.438	(9.195-9.682)		34920	10.6	
A 169 C36-C39	9.493	(8.948-10.038)		77385	23.4	
170 C38	9.632	9.537	0.095	577	0.1746	
A 171 C35-C40	9.584	(8.740-10.428)		117035	35.4	
A 172 C36-C40	9.693	(8.948-10.438)		102942	31.2	
A 174 C37-C40	9.817	(9.195-10.438)		84200	25.5	
A 178 C39-C40	10.060	(9.682-10.438)		49279	14.9	
A 180 C33-C44	10.361	(8.293-12.428)		265415	80.3	
A 173 C40-C44	11.233	(10.038-12.428)		143337	43.4	
A 176 C41-C44	11.418	(10.408-12.428)		119662	36.2	
S 189 HC Dist (C13-C44)					161.9	
S 190 HC Dist (C13-C28)					71.5	
S 191 HC Dist (C8-C40)					148.9	
S 192 HC Dist (C8-C44)					185.2	
S 193 HC Dist (C10-C44)					179.9	
S 188 HC Dist (C10-C40)					143.7	
S 195 HC Dist (C13-C40)					125.7	
S 194 HC Dist (C10-C36)					118.2	

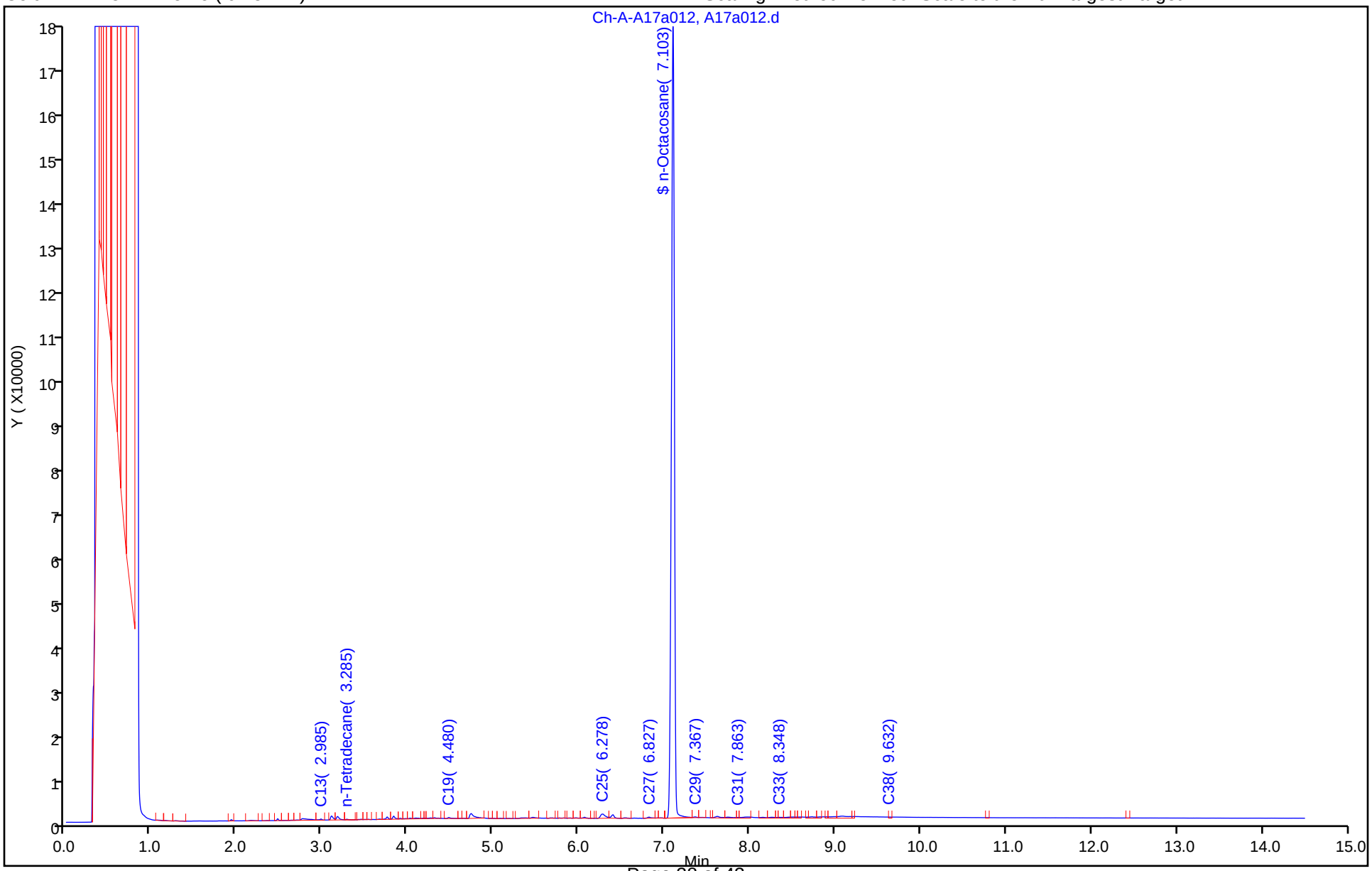
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a012.d

Injection Date:	17-Jan-2019 11:37:41	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90735-D-7-C	Lab Sample ID:	440-90735-7	Worklist Smp#:	12
Client ID:	DG-P13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a012.d				
Lims ID:	720-90735-D-7-C				
Client ID:	DG-P13W				
Sample Type:	Client				
Inject. Date:	17-Jan-2019 11:37:41	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	17-Jan-2019 14:00:59	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				

First Level Reviewer: barnettl Date: 17-Jan-2019 14:00:59

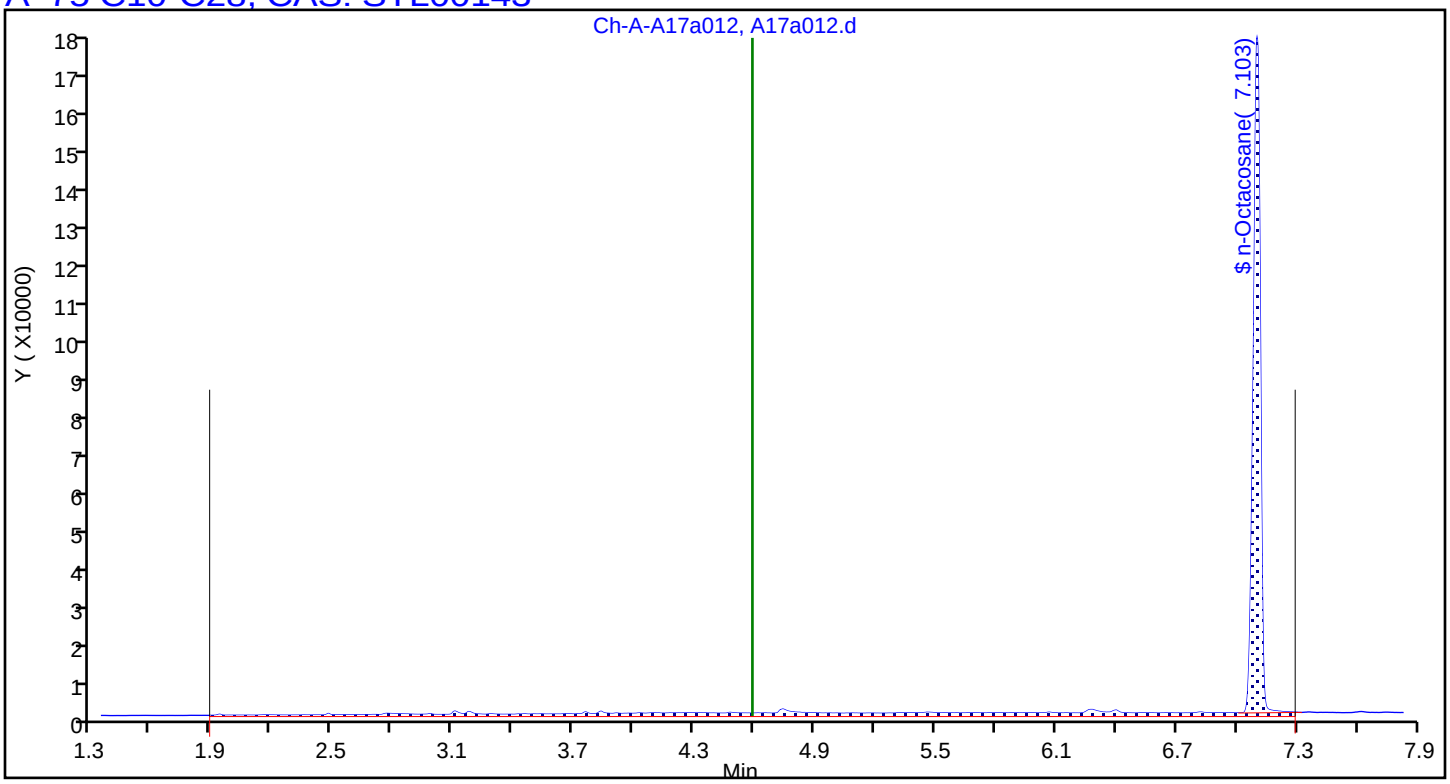
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	128.8	64.41

Report Date: 17-Jan-2019 14:01:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a012.d				
Injection Date:	17-Jan-2019 11:37:41	Instrument ID:	GC69A		
Lims ID:	720-90735-D-7-C	Lab Sample ID:	440-90735-7		
Client ID:	DG-P13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

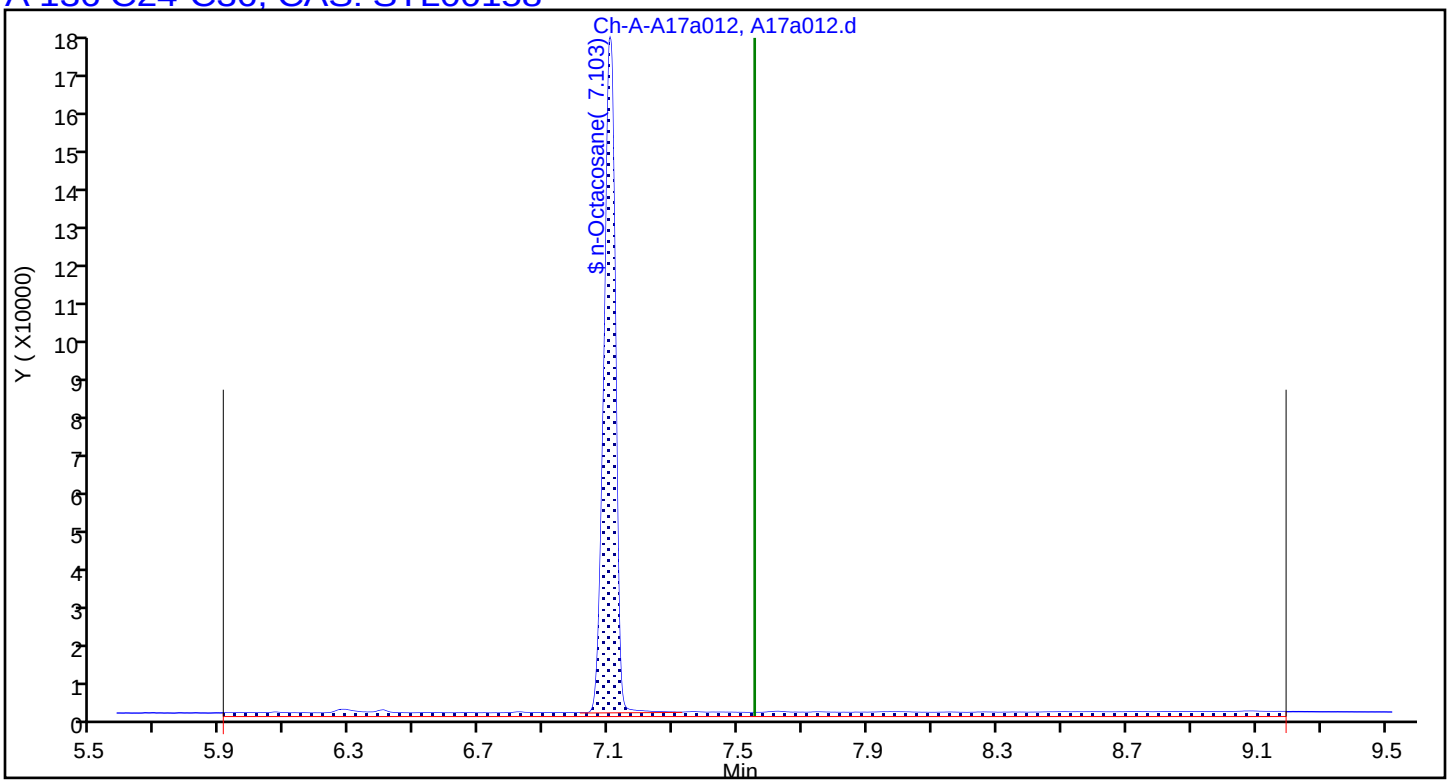


Report Date: 17-Jan-2019 14:01:07 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190117-114325.b\A17a012.d				
Injection Date:	17-Jan-2019 11:37:41	Instrument ID:	GC69A		
Lims ID:	720-90735-D-7-C	Lab Sample ID:	440-90735-7		
Client ID:	DG-P13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90735

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

187786

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1-11-19	COC No. 187786
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler George H-Olborn
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnias@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90735 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1. DG-S15W	1-11-19	1030	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2 Dup-107		[redacted]											
3 DG-Q15W		1100											
4 DG-O15W		1125											
5 DG-N13W		1149											
6 Dup-89		—			↓								
7 DG-P13W	↓	1230	↓	↓	13	↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.8, 1.7, 3.0, 2.1, 3.7
2.2, 0.9, 3.0, 1.7, 3.3 °C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____		Therm ID No ____
Relinquished by	Company: GEOSYNTEC	Date/Time: 1-11-19 1203	Received by	Company: TAPLS	Date/Time: 1/11/19 1300
Relinquished by	Company: TAPLS	Date/Time: 1/11/19 1500	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/11/19 1500

3-8 | 1-7 | 3 | 2 | 1-9
1/11/19 — 2 | 3 | 1-7 | 2-3 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

1.9 2.0 1.5 1.6

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-40787.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90735-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-S15W (720-90735-1)	1/11/19	10:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-107 (720-90735-2)	1/11/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Q15W (720-90735-3)	1/11/19	11:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-O15W (720-90735-4)	1/11/19	11:25 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-N13W (720-90735-5)	1/11/19	11:49 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-89 (720-90735-6)	1/11/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-P13W (720-90735-7)	1/11/19	12:30 Pacific		Water			X	X	X	X	4	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-P13W (720-90735-7MS)	1/11/19	12:30 Pacific	MS	Water			X	X	X	X	4	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-P13W (720-90735-7MSD)	1/11/19	12:30 Pacific	MSD	Water			X	X	X	X	3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 1/14/19 1049	Company TAPLS	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time: 1/15/19 1000	Company TA 112

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1285 A-6 2.0 1.9 2.3 1.5 1.9 2.0 2.4

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90736-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Karen Dahl
Senior Project Manager
1/31/2019 12:58 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/31/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Job Narrative
720-90736-1

Comments
No additional comments.

Receipt
The samples were received on 1/11/2019 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were 0.9º C, 1.7º C, 1.7º C, 2.1º C, 2.2º C, 3.0º C, 3.0º C, 3.3º C, 3.7º C and 3.8º C.

Receipt Exceptions
Insufficient sample volume was provided for the following samples for the matrix spike / matrix spike duplicate (MS/MSD) for both 8270C SIM PAHs and 8015B TPH-D/MO analyses: DG-AE7W (720-90736-4) and DG-AI7W (720-90736-10). Received 5 amber 1L containers per sample. Logged in both analyses "ON HOLD" for the MS/MSDs until resolved. See client response in correspondences. 8270SIM MS/MSD analyzed on sample #4 and 8015BDRO MS/MSD analyzed on sample #10 per client instructions.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-522700 and analytical batch 440-522742 were outside control limits. Sample matrix interference is suspected due to the “olive yellow with light emulsion” appearance of the sample and because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-258443 and analytical batch 720-258610 contained Arsenic and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258610 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 720-258610/43). Affected sample results for these compounds have been qualified with a "^" symbol: Thallium.

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-258610 recovered above the upper control limit for Thallium and Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 720-258610/46). Affected sample results for these compounds have been qualified with a "^" symbol:

Method 6010B: The method blank for preparation batch 720-258448 and analytical batch 720-258632 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 3510C/8015B preparation/analysis: DG-AM7W (720-90736-8) and DG-AR9W (720-90736-12).

Method 3520C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 8270 SIM PAHs preparation/analysis: DG-AS7W (720-90736-6) and DG-AD9W (720-90736-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a013.d				
Lims ID:	720-90736-E-1-A				
Client ID:	DG-Y7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 13:44:33	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:50:55	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 15:51:22		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		194482	53.7	
$ 127 n-Octacosane	7.062	7.070	-0.008	413842	112.5	
A 135 C24-C36	7.510	(5.878-9.142)		173880	48.0	

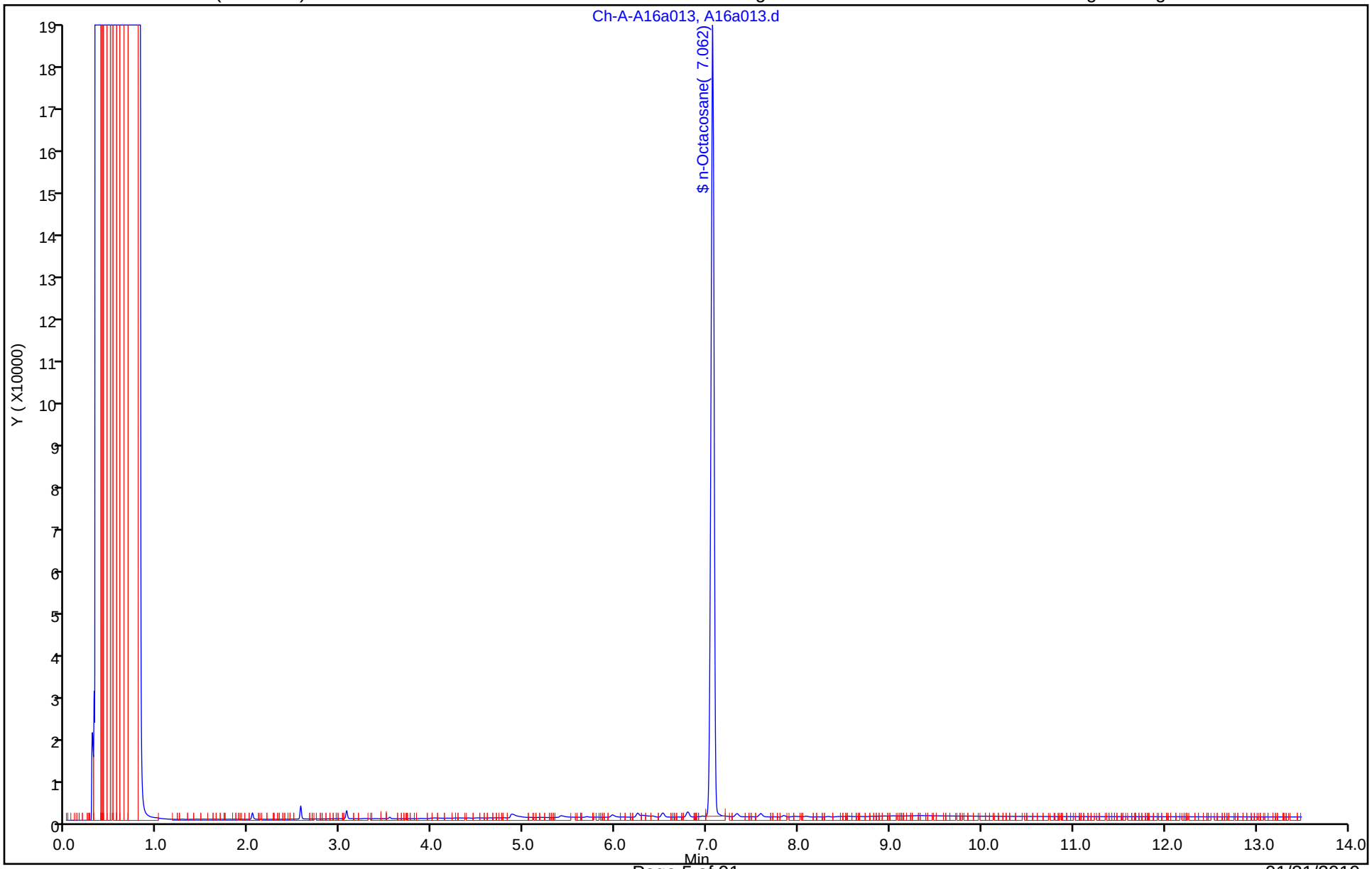
Report Date: 16-Jan-2019 15:51:22 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a013.d

Injection Date:	16-Jan-2019 13:44:33	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-E-1-A	Lab Sample ID:	440-90736-1	Worklist Smp#:	13
Client ID:	DG-Y7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a013.d				
Lims ID:	720-90736-E-1-A				
Client ID:	DG-Y7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 13:44:33	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:50:55	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 15:51:22

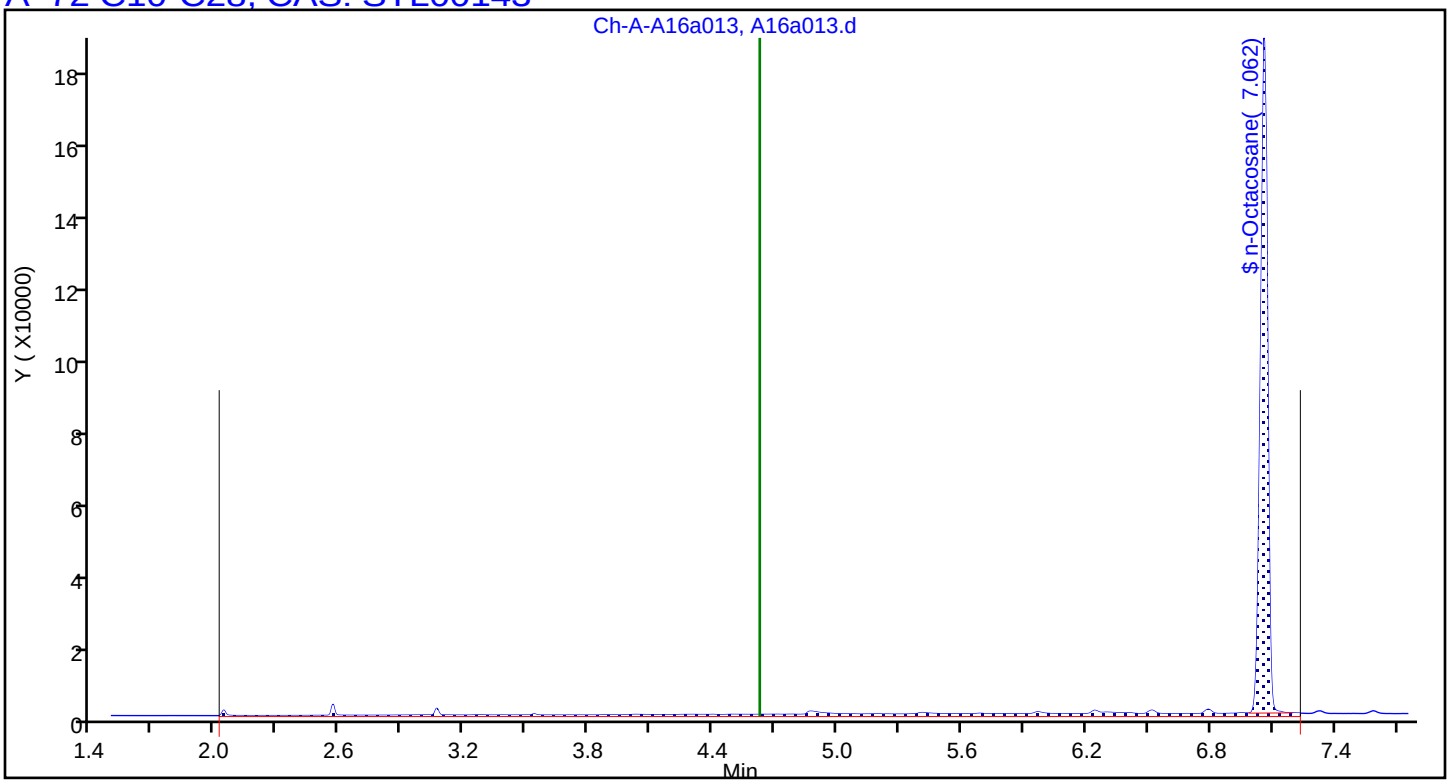
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	112.5	56.25
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 15:51:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a013.d				
Injection Date:	16-Jan-2019 13:44:33	Instrument ID:	GC70A		
Lims ID:	720-90736-E-1-A	Lab Sample ID:	440-90736-1		
Client ID:	DG-Y7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

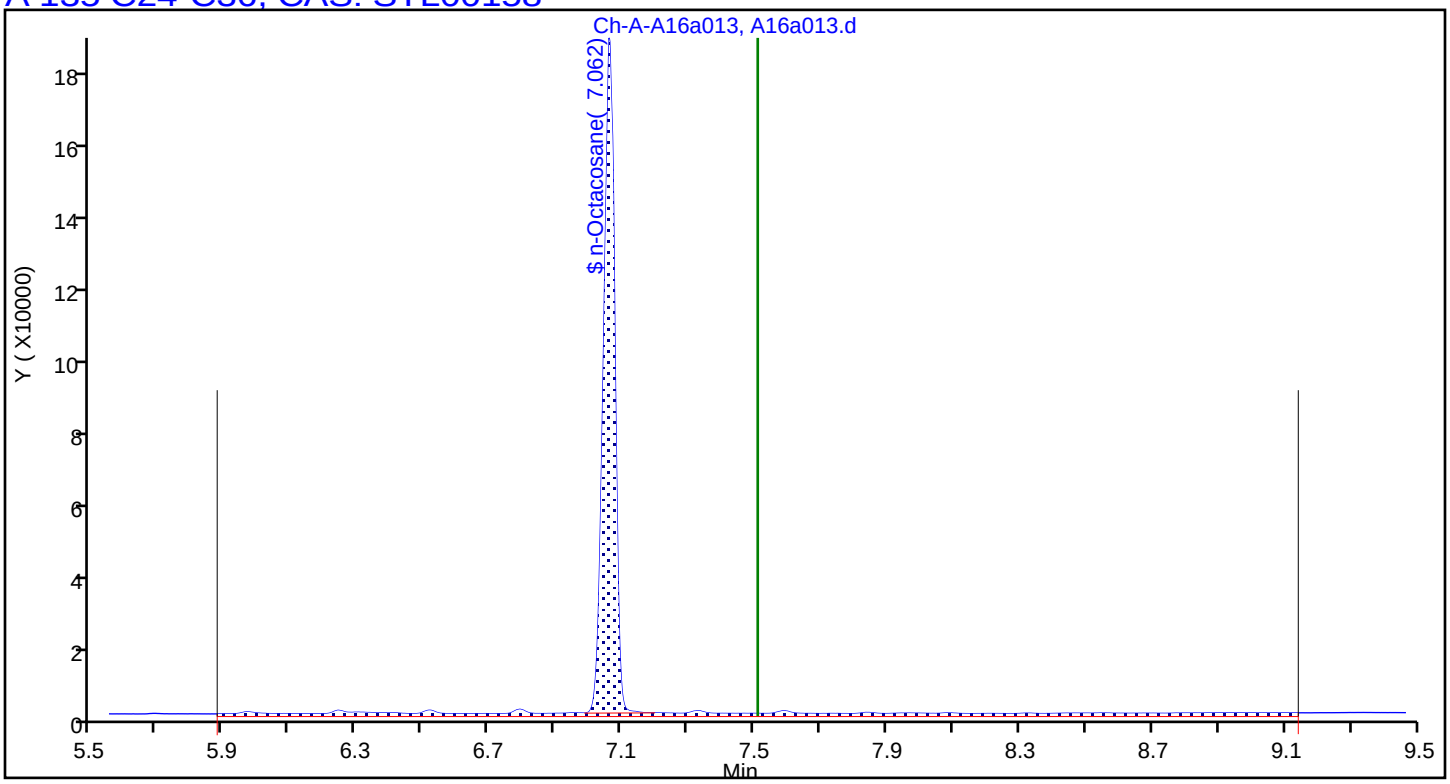


Report Date: 16-Jan-2019 15:51:23 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a013.d				
Injection Date:	16-Jan-2019 13:44:33	Instrument ID:	GC70A		
Lims ID:	720-90736-E-1-A	Lab Sample ID:	440-90736-1		
Client ID:	DG-Y7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a018.d				
Lims ID:	720-90736-F-2-A				
Client ID:	DG-AA7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 15:32:50	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:56:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 15:56:03		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		415255	114.6	
$ 127 n-Octacosane	7.067	7.070	-0.003	474969	129.1	
A 135 C24-C36	7.510	(5.878-9.142)		449392	124.1	

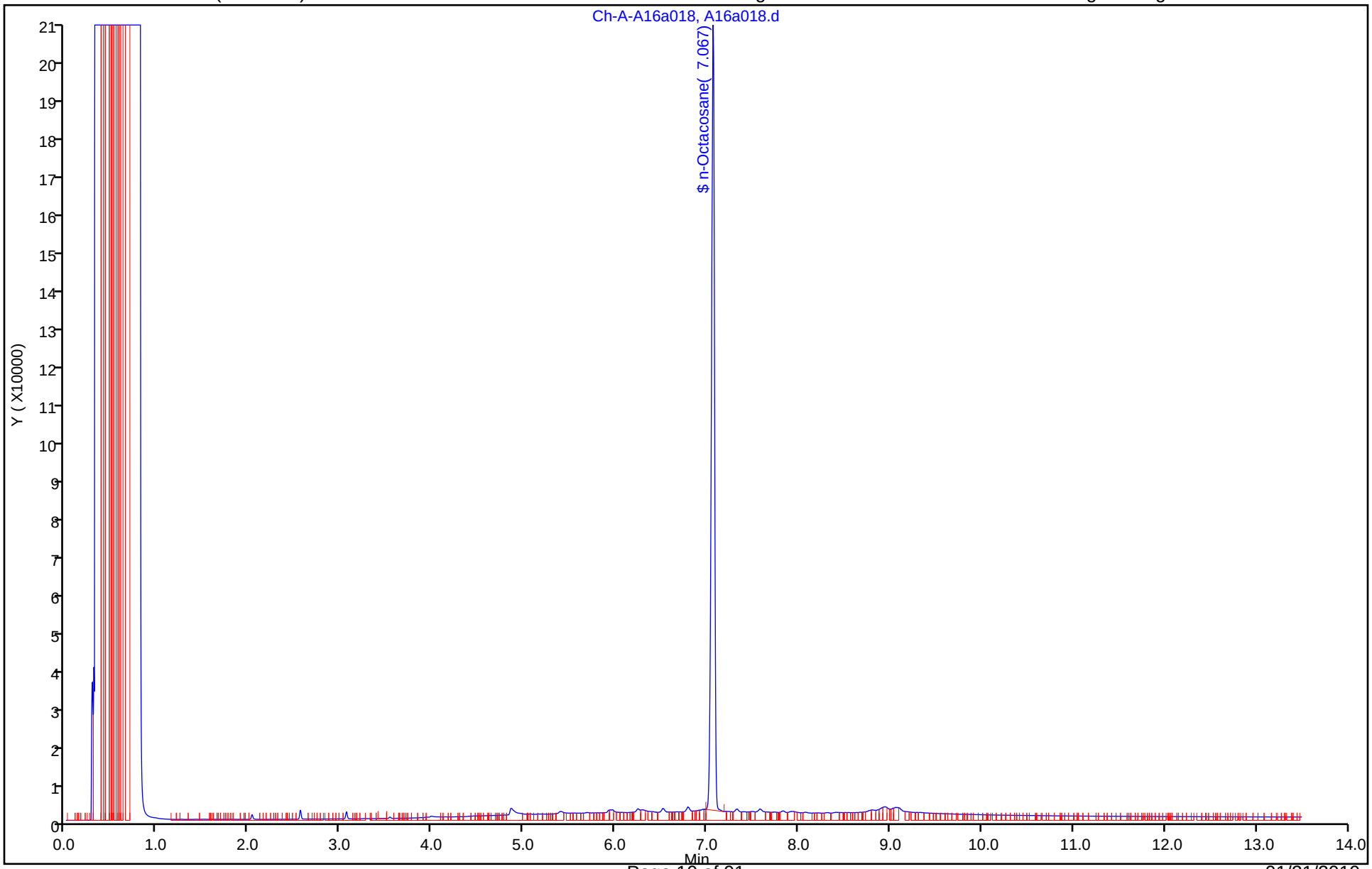
Report Date: 16-Jan-2019 15:56:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a018.d

Injection Date:	16-Jan-2019 15:32:50	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-F-2-A	Lab Sample ID:	440-90736-2	Worklist Smp#:	18
Client ID:	DG-AA7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a018.d				
Lims ID:	720-90736-F-2-A				
Client ID:	DG-AA7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 15:32:50	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:56:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 15:56:03

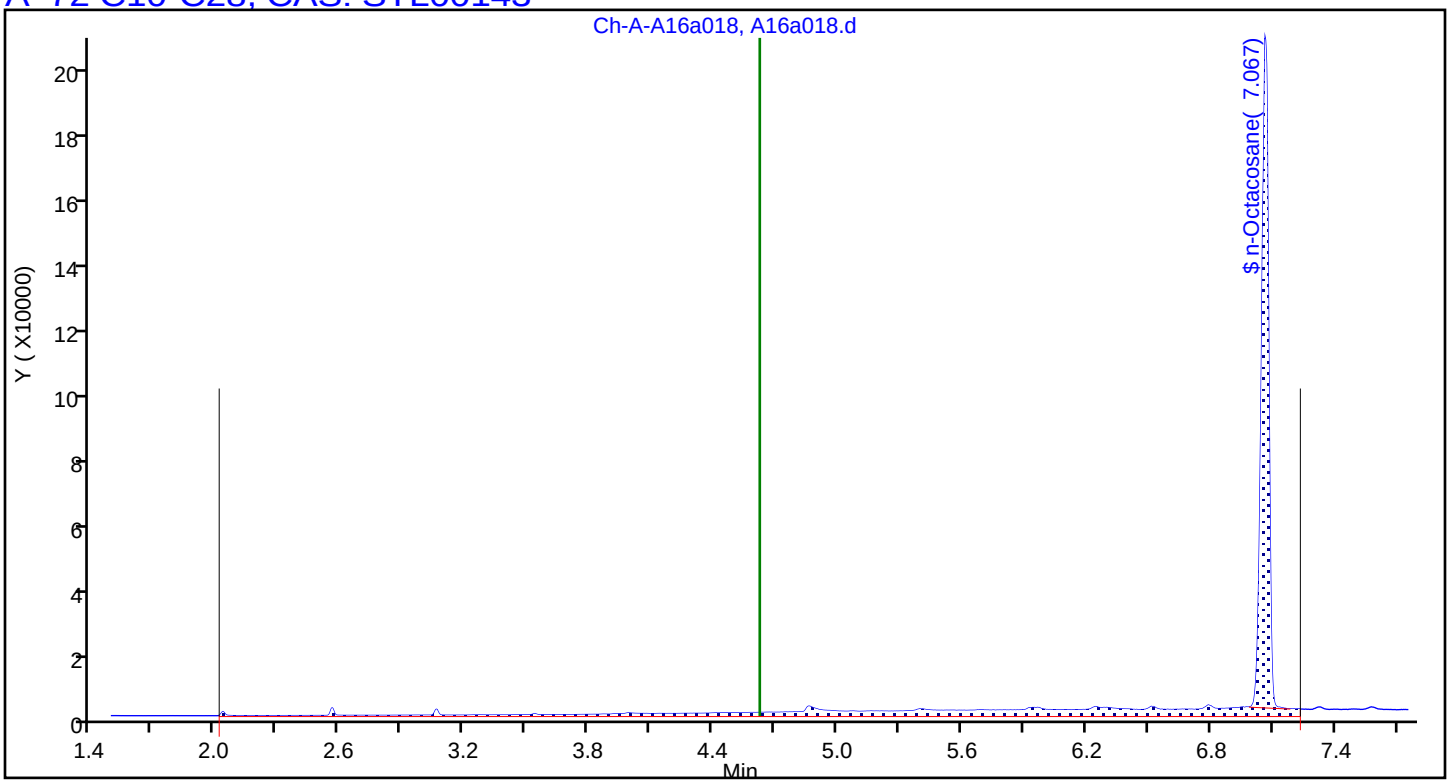
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	129.1	64.55
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 15:56:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a018.d				
Injection Date:	16-Jan-2019 15:32:50	Instrument ID:	GC70A		
Lims ID:	720-90736-F-2-A	Lab Sample ID:	440-90736-2		
Client ID:	DG-AA7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

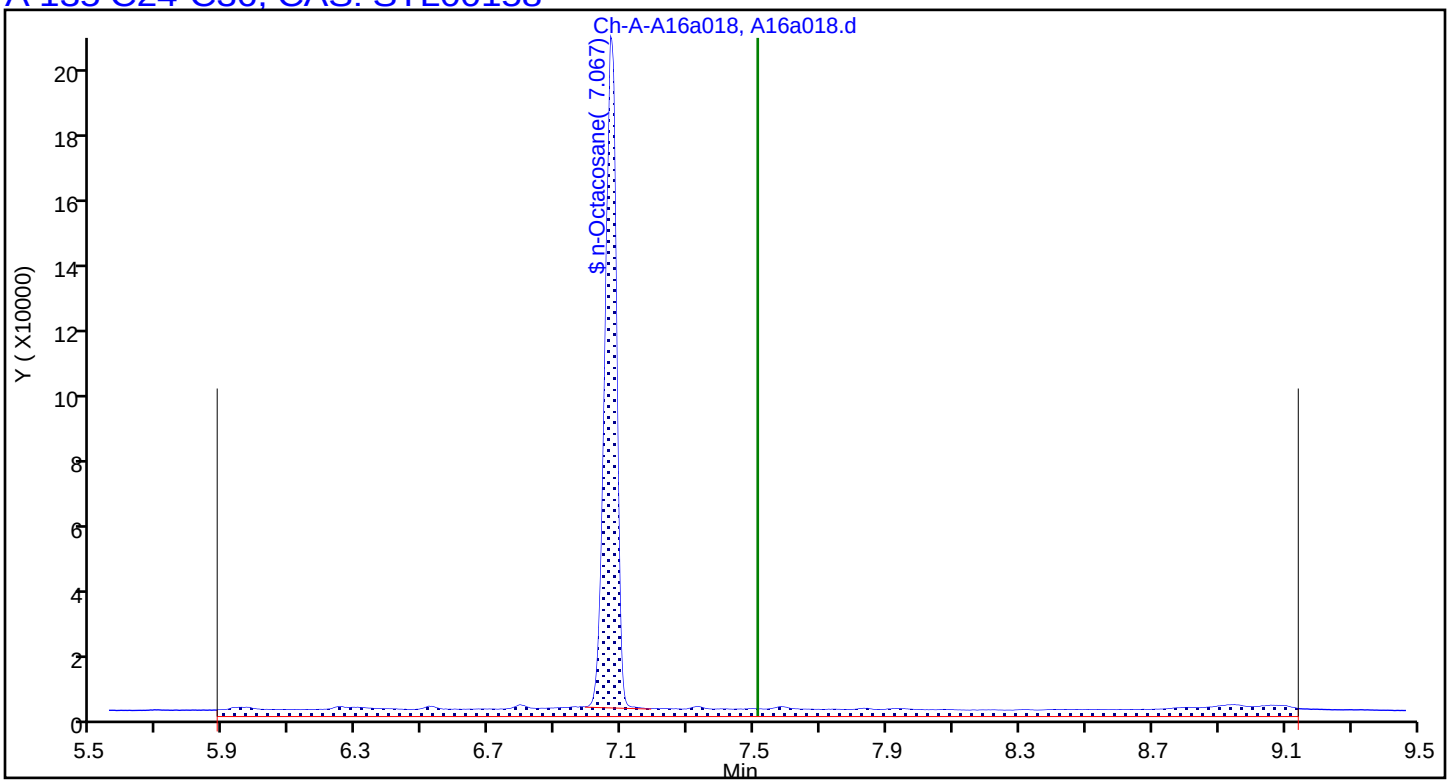


Report Date: 16-Jan-2019 15:56:03 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a018.d				
Injection Date:	16-Jan-2019 15:32:50	Instrument ID:	GC70A		
Lims ID:	720-90736-F-2-A	Lab Sample ID:	440-90736-2		
Client ID:	DG-AA7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a019.d				
Lims ID:	720-90736-E-3-A				
Client ID:	DG-AC7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 15:54:27	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 16:44:29	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 16:44:29		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		382677	105.6	
$ 127 n-Octacosane	7.065	7.070	-0.005	464134	126.2	
A 135 C24-C36	7.510	(5.878-9.142)		513992	141.9	

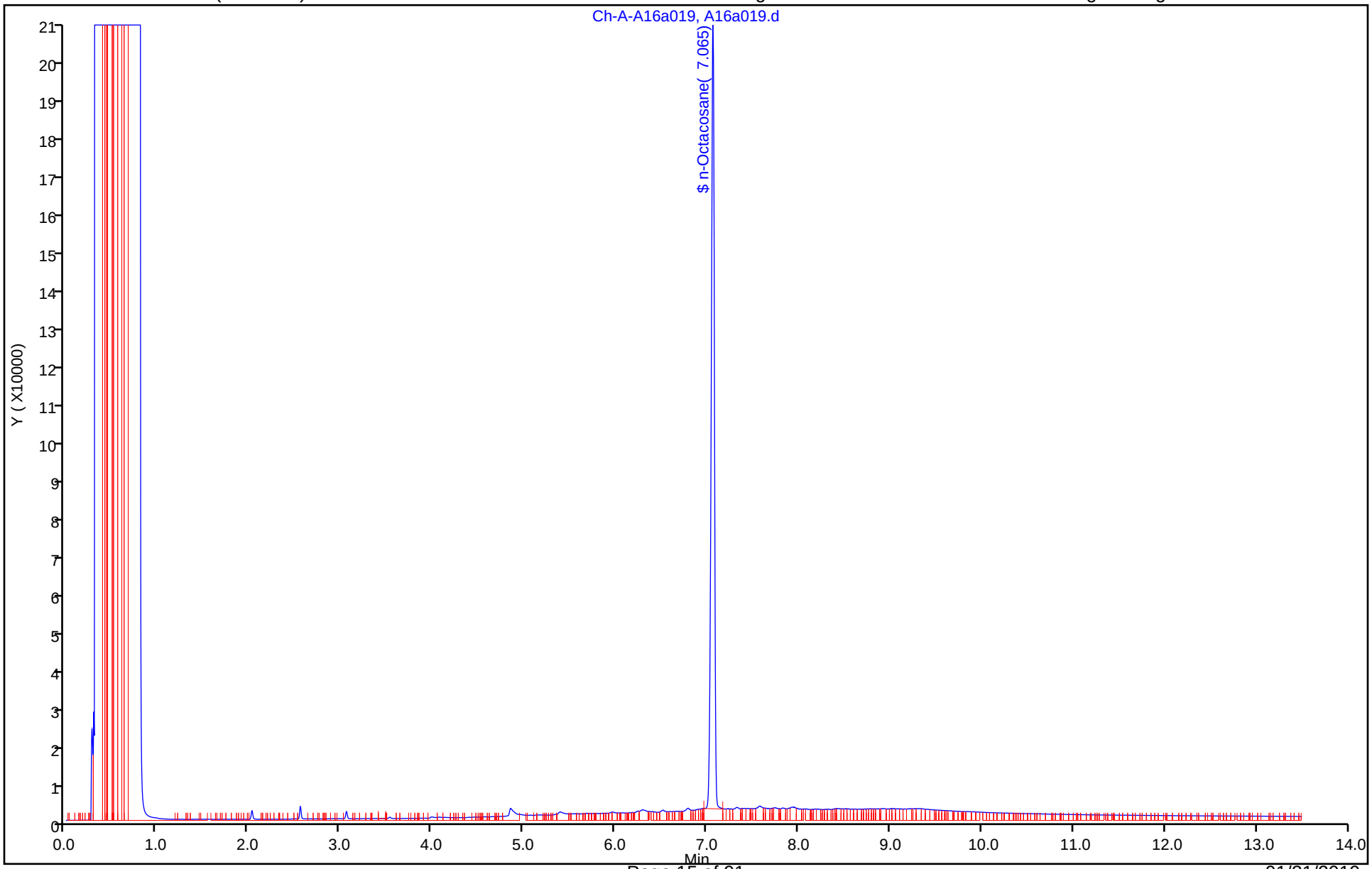
Report Date: 16-Jan-2019 16:44:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a019.d

Injection Date:	16-Jan-2019 15:54:27	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-E-3-A	Lab Sample ID:	440-90736-3	Worklist Smp#:	19
Client ID:	DG-AC7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a019.d
Lims ID: 720-90736-E-3-A
Client ID: DG-AC7W
Sample Type: Client
Inject. Date: 16-Jan-2019 15:54:27 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 16-Jan-2019 16:44:29 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0326

First Level Reviewer: barnettl Date: 16-Jan-2019 16:44:29

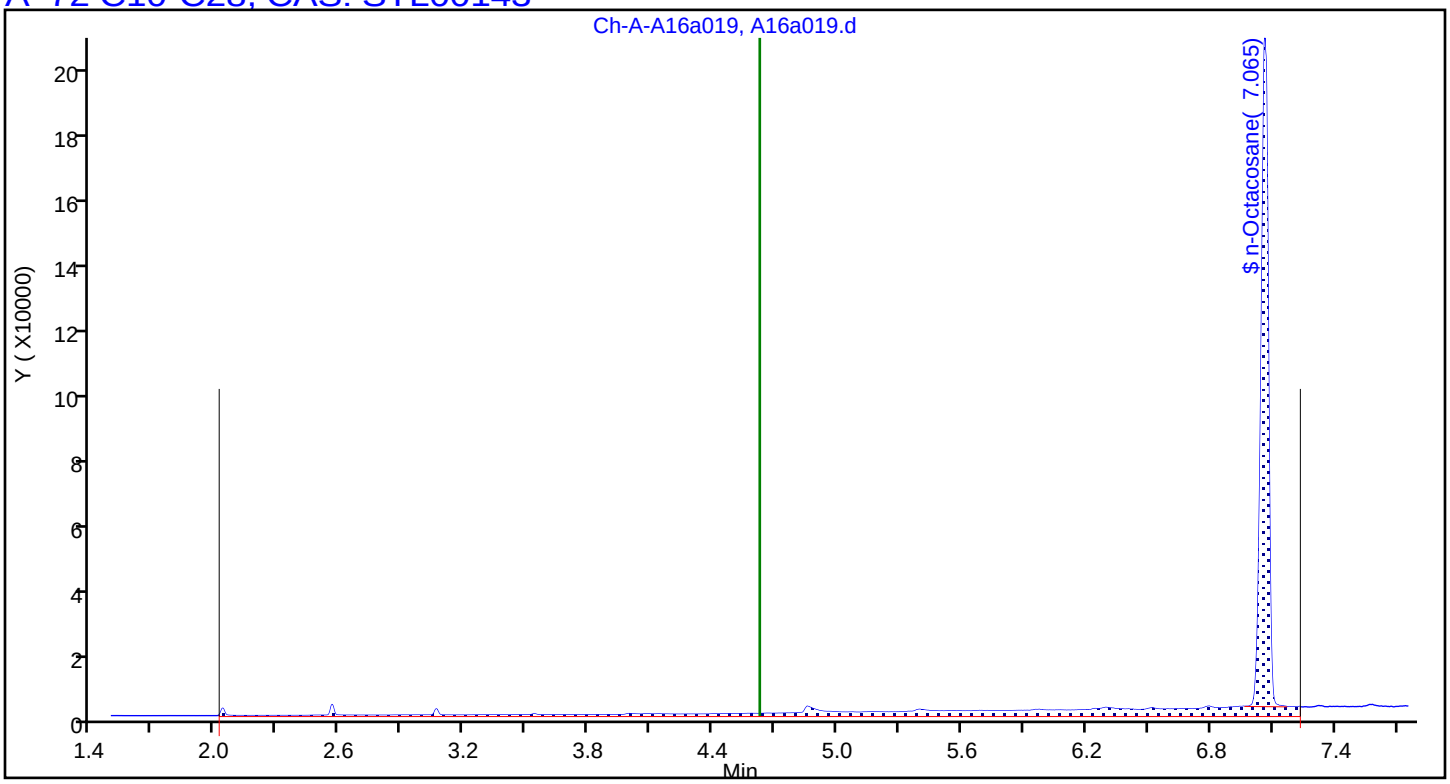
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	126.2	63.08
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 16:44:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a019.d				
Injection Date:	16-Jan-2019 15:54:27	Instrument ID:	GC70A		
Lims ID:	720-90736-E-3-A	Lab Sample ID:	440-90736-3		
Client ID:	DG-AC7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



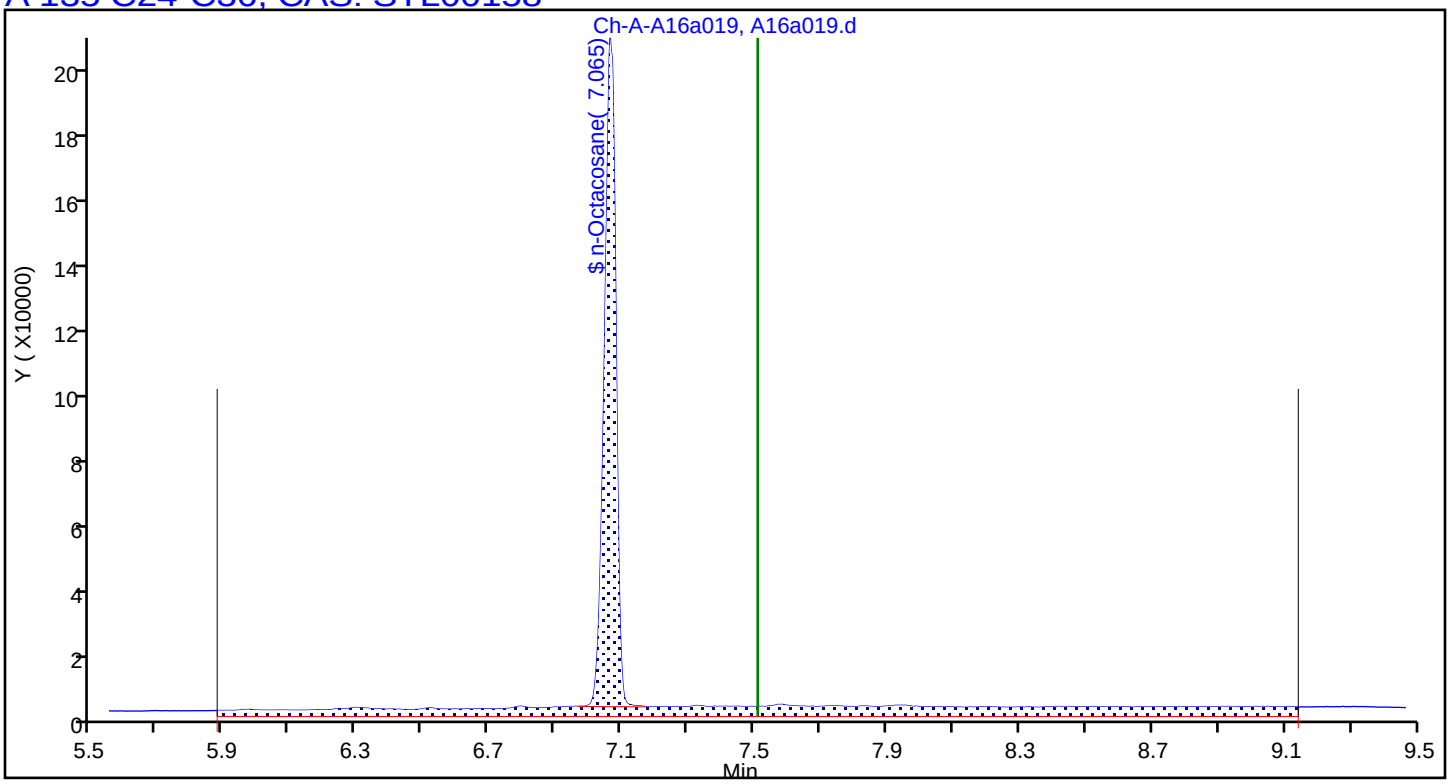
Report Date: 16-Jan-2019 16:44:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a019.d

Injection Date:	16-Jan-2019 15:54:27	Instrument ID:	GC70A		
Lims ID:	720-90736-E-3-A	Lab Sample ID:	440-90736-3		
Client ID:	DG-AC7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a020.d				
Lims ID:	720-90736-E-4-A				
Client ID:	DG-AE7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 16:16:15	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 16:54:16	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 16:54:16		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		791611	218.5	
$ 127 n-Octacosane	7.062	7.070	-0.008	472457	128.4	
A 135 C24-C36	7.510	(5.878-9.142)		650186	179.5	

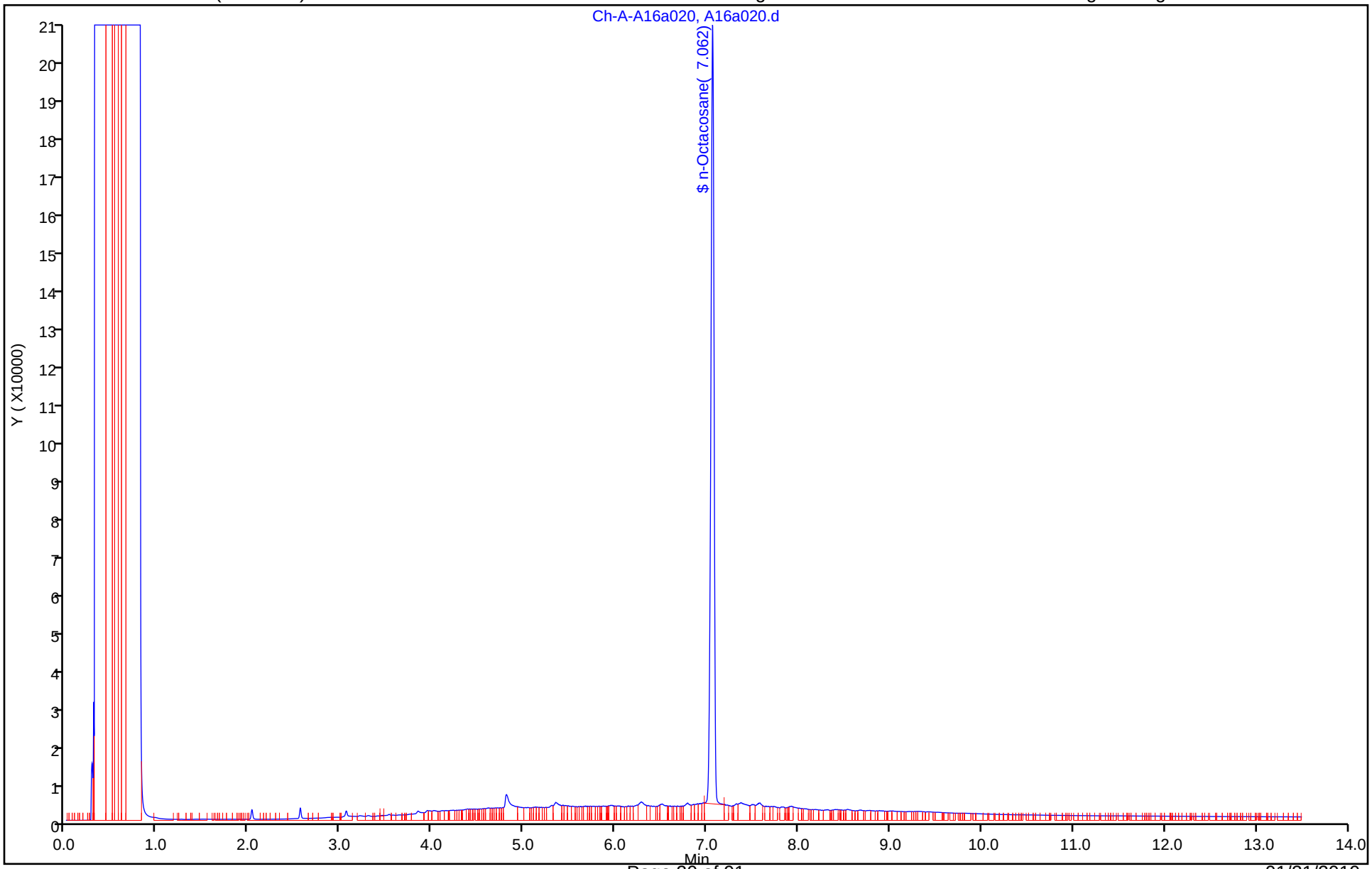
Report Date: 16-Jan-2019 16:54:16 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a020.d

Injection Date:	16-Jan-2019 16:16:15	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-E-4-A	Lab Sample ID:	440-90736-4	Worklist Smp#:	20
Client ID:	DG-AE7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a020.d				
Lims ID:	720-90736-E-4-A				
Client ID:	DG-AE7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 16:16:15	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 16:54:16	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 16:54:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	128.4	64.21
$ 178 n-Triacontane-d62	0.0	0	0.00

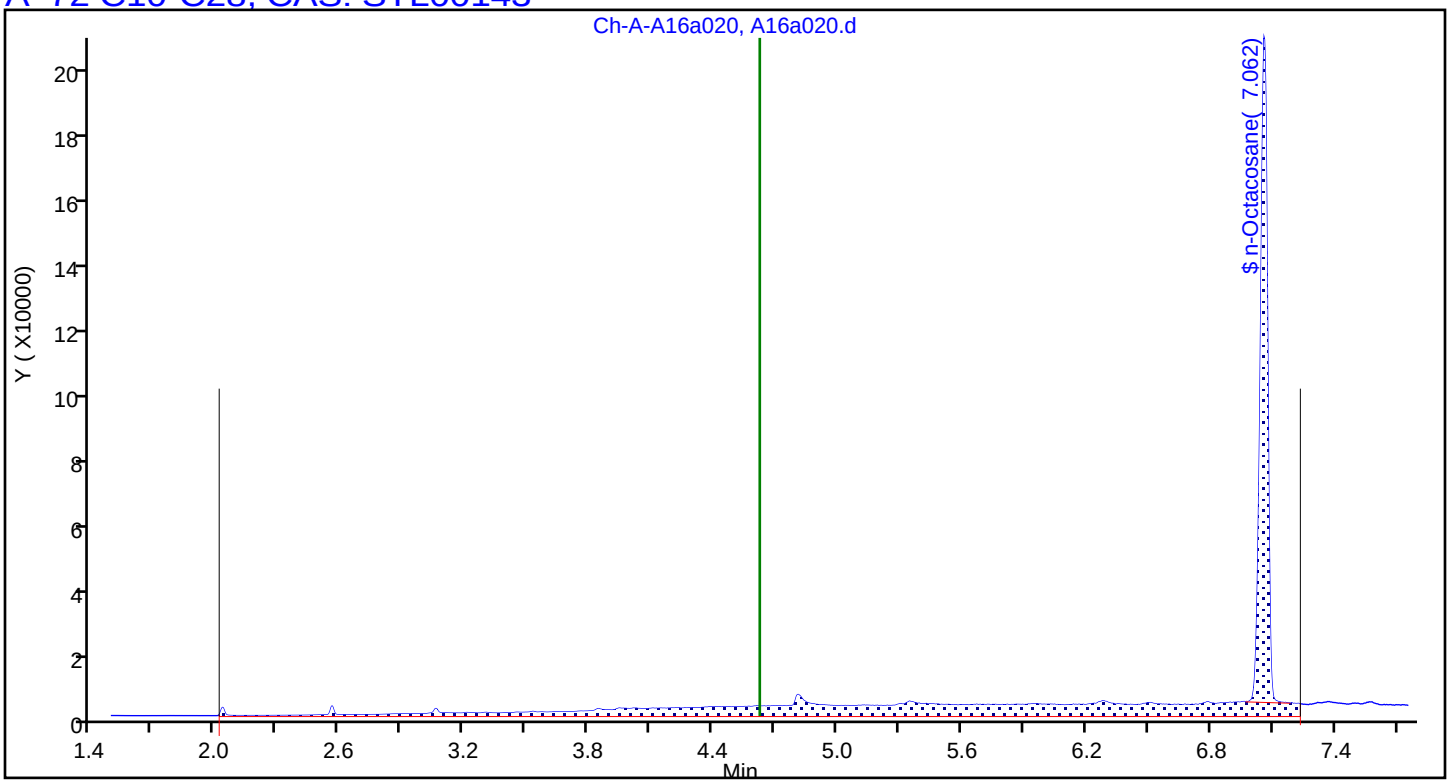
Report Date: 16-Jan-2019 16:54:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a020.d

Injection Date:	16-Jan-2019 16:16:15	Instrument ID:	GC70A		
Lims ID:	720-90736-E-4-A	Lab Sample ID:	440-90736-4		
Client ID:	DG-AE7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

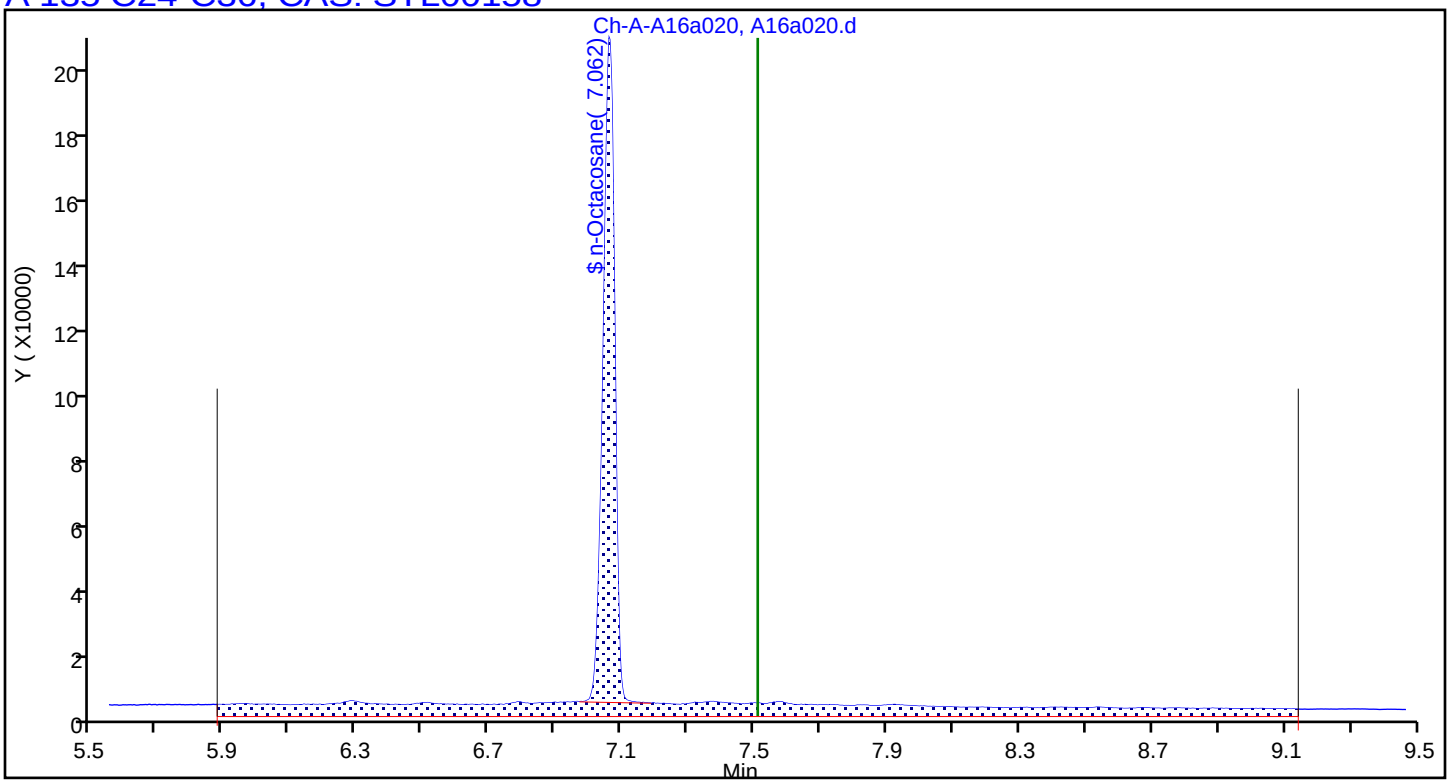


Report Date: 16-Jan-2019 16:54:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a020.d				
Injection Date:	16-Jan-2019 16:16:15	Instrument ID:	GC70A		
Lims ID:	720-90736-E-4-A	Lab Sample ID:	440-90736-4		
Client ID:	DG-AE7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a014.d				
Lims ID:	720-90736-D-5-A				
Client ID:	DG-AU7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 14:06:01	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:09:05	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0324				
First Level Reviewer: doanm		Date:	16-Jan-2019 15:09:05		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		492446	136.0	
$ 127 n-Octacosane	7.065	7.070	-0.005	499821	135.9	
A 135 C24-C36	7.510	(5.878-9.142)		347705	96.0	

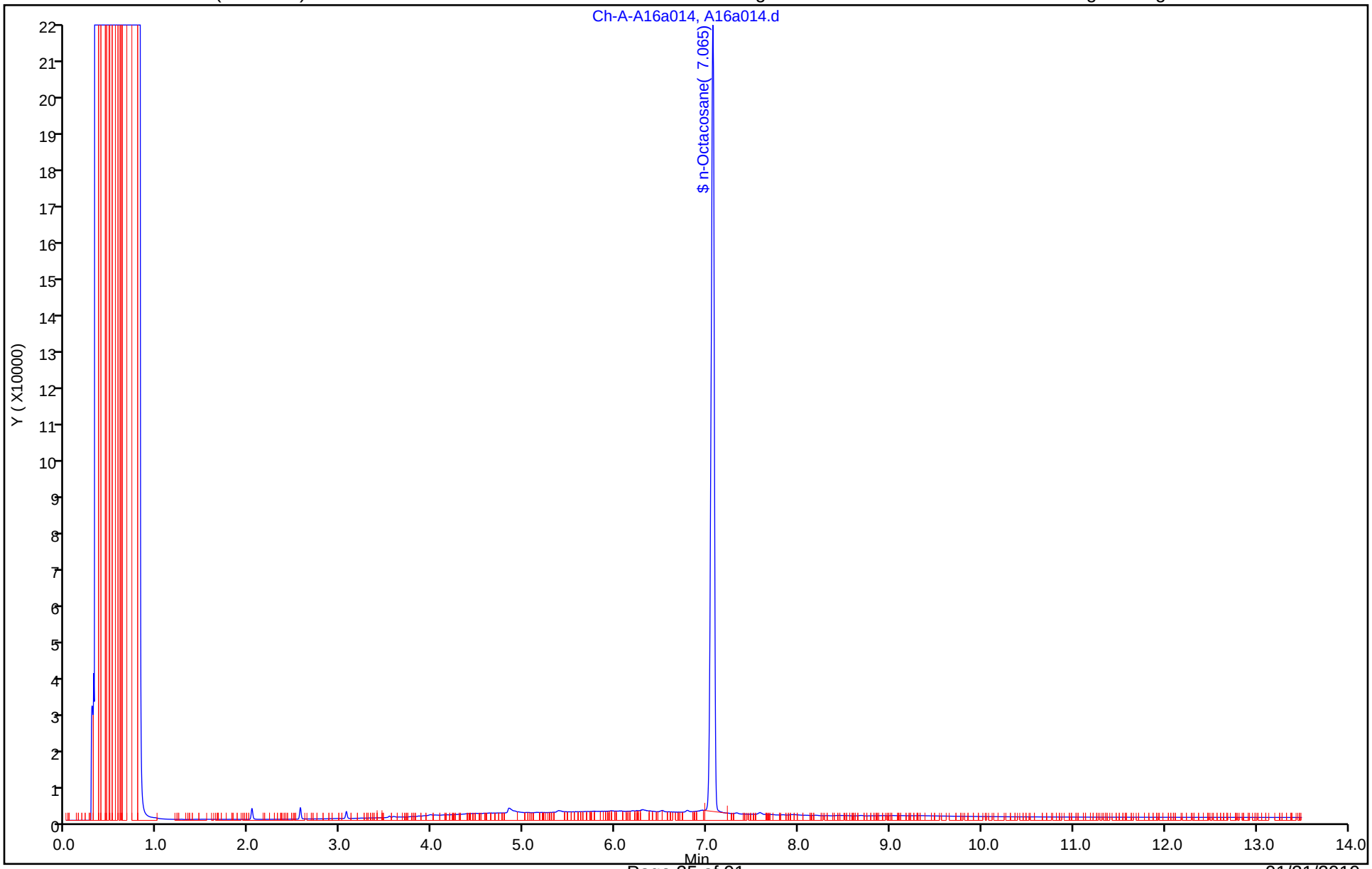
Report Date: 16-Jan-2019 15:09:05 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a014.d

Injection Date:	16-Jan-2019 14:06:01	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-D-5-A	Lab Sample ID:	440-90736-5	Worklist Smp#:	14
Client ID:	DG-AU7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a014.d				
Lims ID:	720-90736-D-5-A				
Client ID:	DG-AU7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 14:06:01	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:09:05	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0324				

First Level Reviewer: doanm Date: 16-Jan-2019 15:09:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	135.9	67.93
$ 178 n-Triacontane-d62	0.0	0	0.00

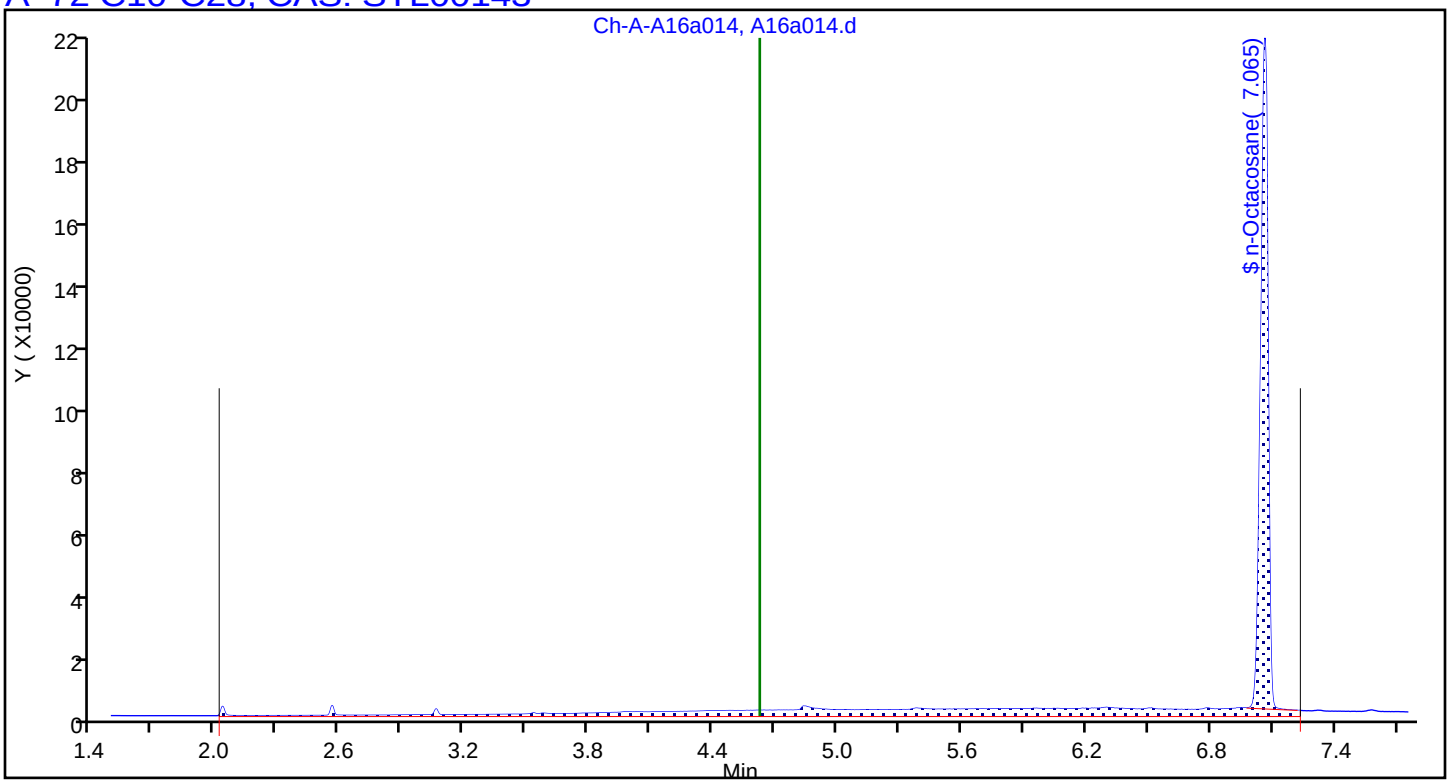
Report Date: 16-Jan-2019 15:09:06 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a014.d

Injection Date:	16-Jan-2019 14:06:01	Instrument ID:	GC70A		
Lims ID:	720-90736-D-5-A	Lab Sample ID:	440-90736-5		
Client ID:	DG-AU7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



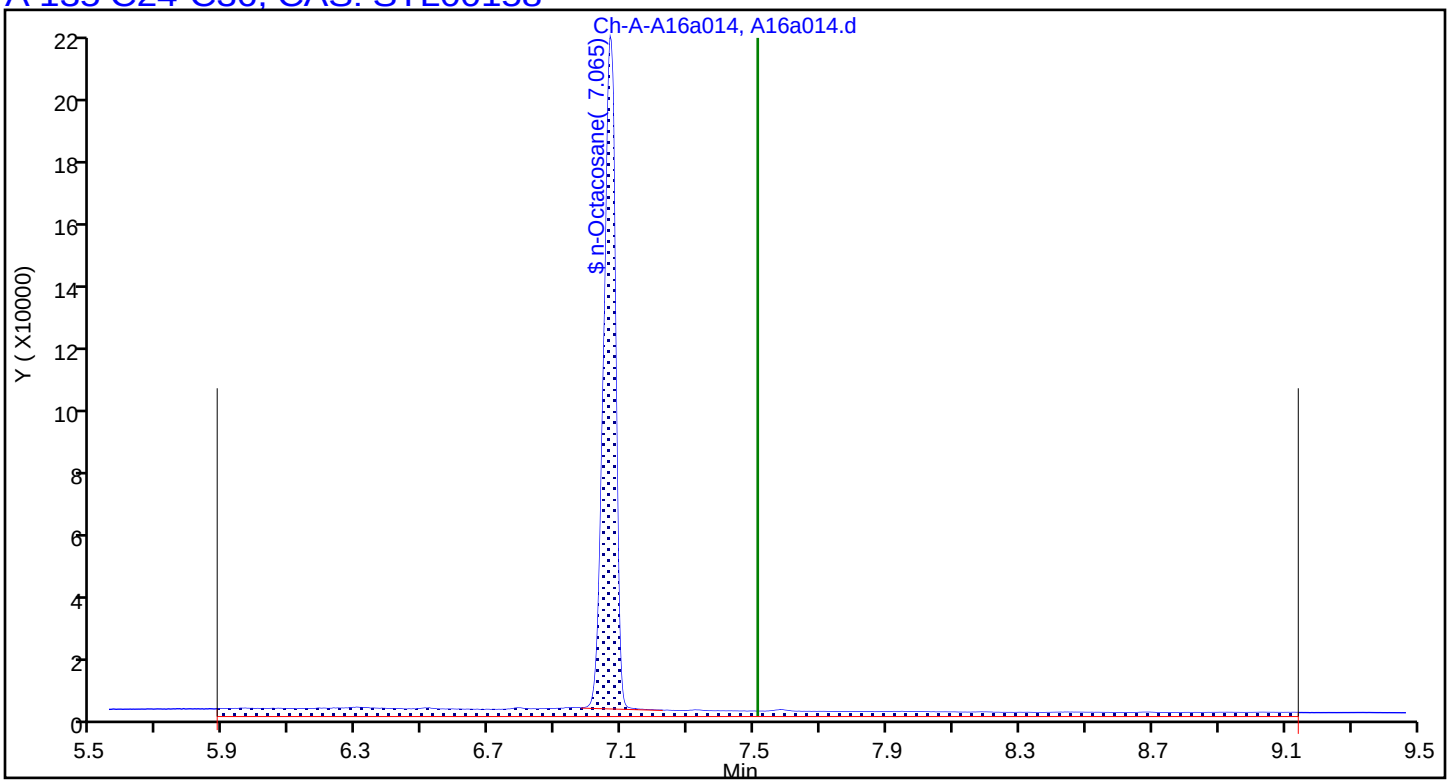
Report Date: 16-Jan-2019 15:09:06 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a014.d

Injection Date:	16-Jan-2019 14:06:01	Instrument ID:	GC70A		
Lims ID:	720-90736-D-5-A	Lab Sample ID:	440-90736-5		
Client ID:	DG-AU7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a015.d				
Lims ID:	720-90736-D-6-A				
Client ID:	DG-AS7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 14:27:36	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:09:19	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0324				
First Level Reviewer: doanm		Date:	16-Jan-2019 15:09:19		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		513755	141.8	
$ 127 n-Octacosane	7.065	7.070	-0.005	503631	136.9	
A 135 C24-C36	7.510	(5.878-9.142)		327989	90.6	

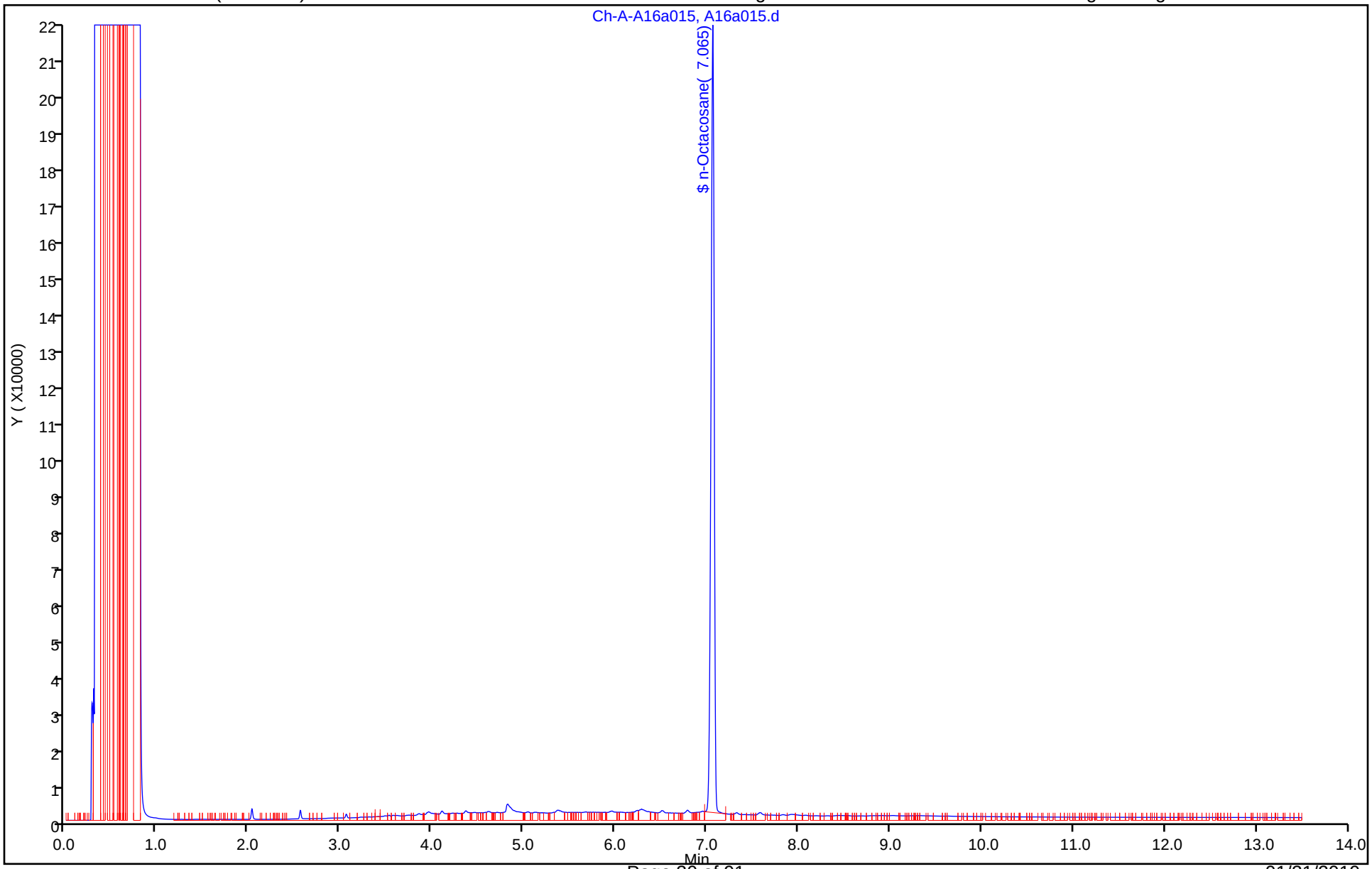
Report Date: 16-Jan-2019 15:09:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a015.d

Injection Date:	16-Jan-2019 14:27:36	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-D-6-A	Lab Sample ID:	440-90736-6	Worklist Smp#:	15
Client ID:	DG-AS7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a015.d				
Lims ID:	720-90736-D-6-A				
Client ID:	DG-AS7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 14:27:36	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:09:19	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0324				

First Level Reviewer: doanm Date: 16-Jan-2019 15:09:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	136.9	68.45
$ 178 n-Triacontane-d62	0.0	0	0.00

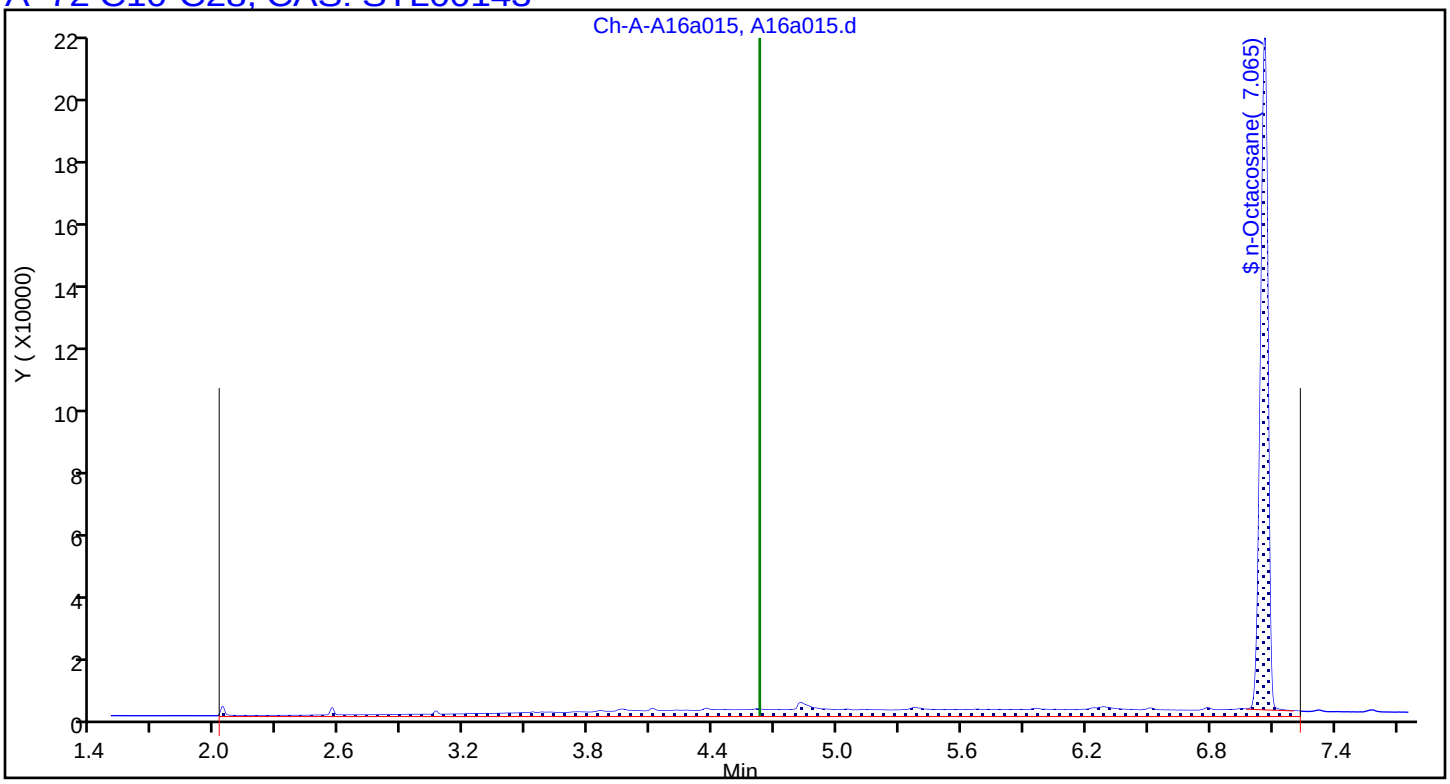
Report Date: 16-Jan-2019 15:09:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a015.d

Injection Date:	16-Jan-2019 14:27:36	Instrument ID:	GC70A		
Lims ID:	720-90736-D-6-A	Lab Sample ID:	440-90736-6		
Client ID:	DG-AS7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



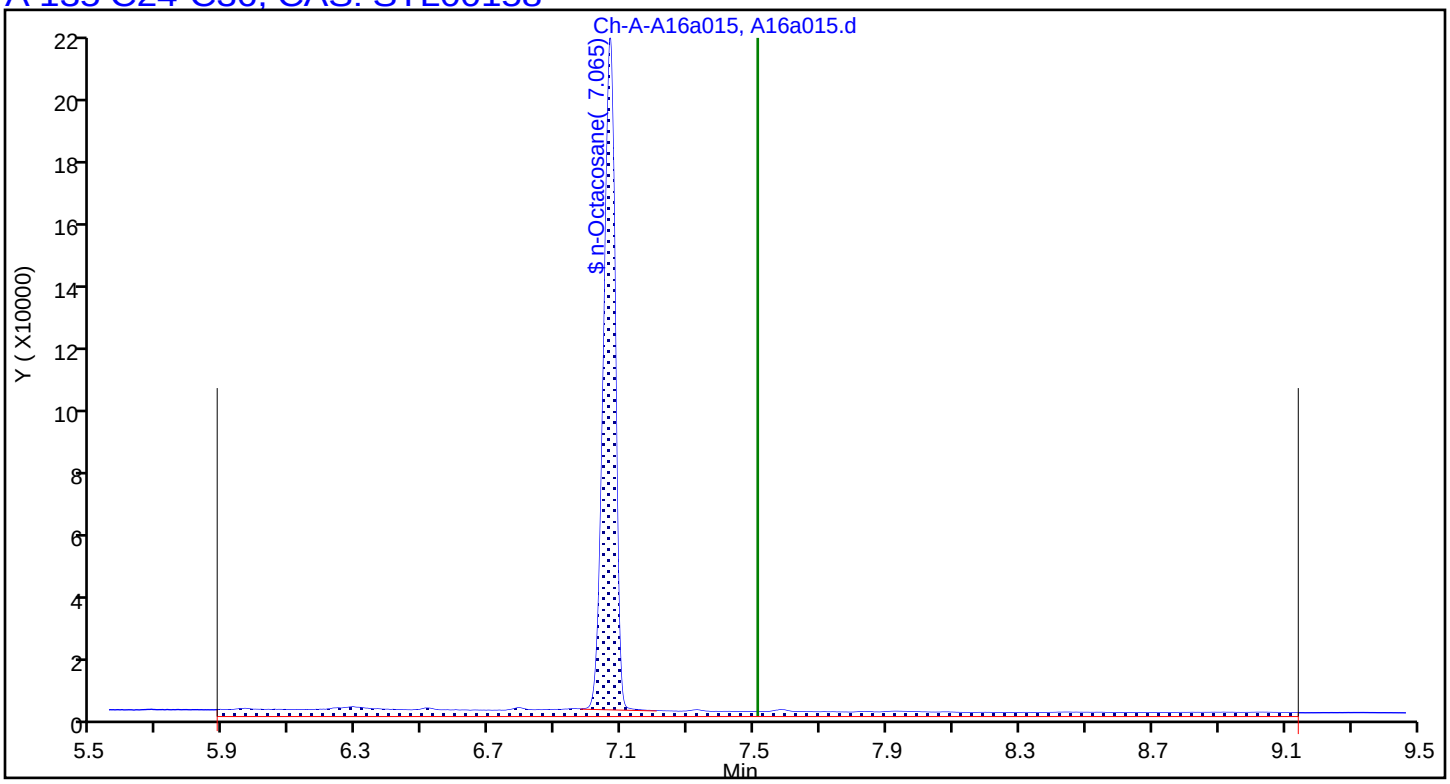
Report Date: 16-Jan-2019 15:09:19 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a015.d

Injection Date:	16-Jan-2019 14:27:36	Instrument ID:	GC70A		
Lims ID:	720-90736-D-6-A	Lab Sample ID:	440-90736-6		
Client ID:	DG-AS7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a021.d				
Lims ID:	720-90736-D-7-A				
Client ID:	DG-AO7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 16:37:50	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 17:06:51	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 17:06:51		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		699401	193.1	
$ 127 n-Octacosane	7.067	7.070	-0.003	507379	137.9	
A 135 C24-C36	7.510	(5.878-9.142)		528590	145.9	

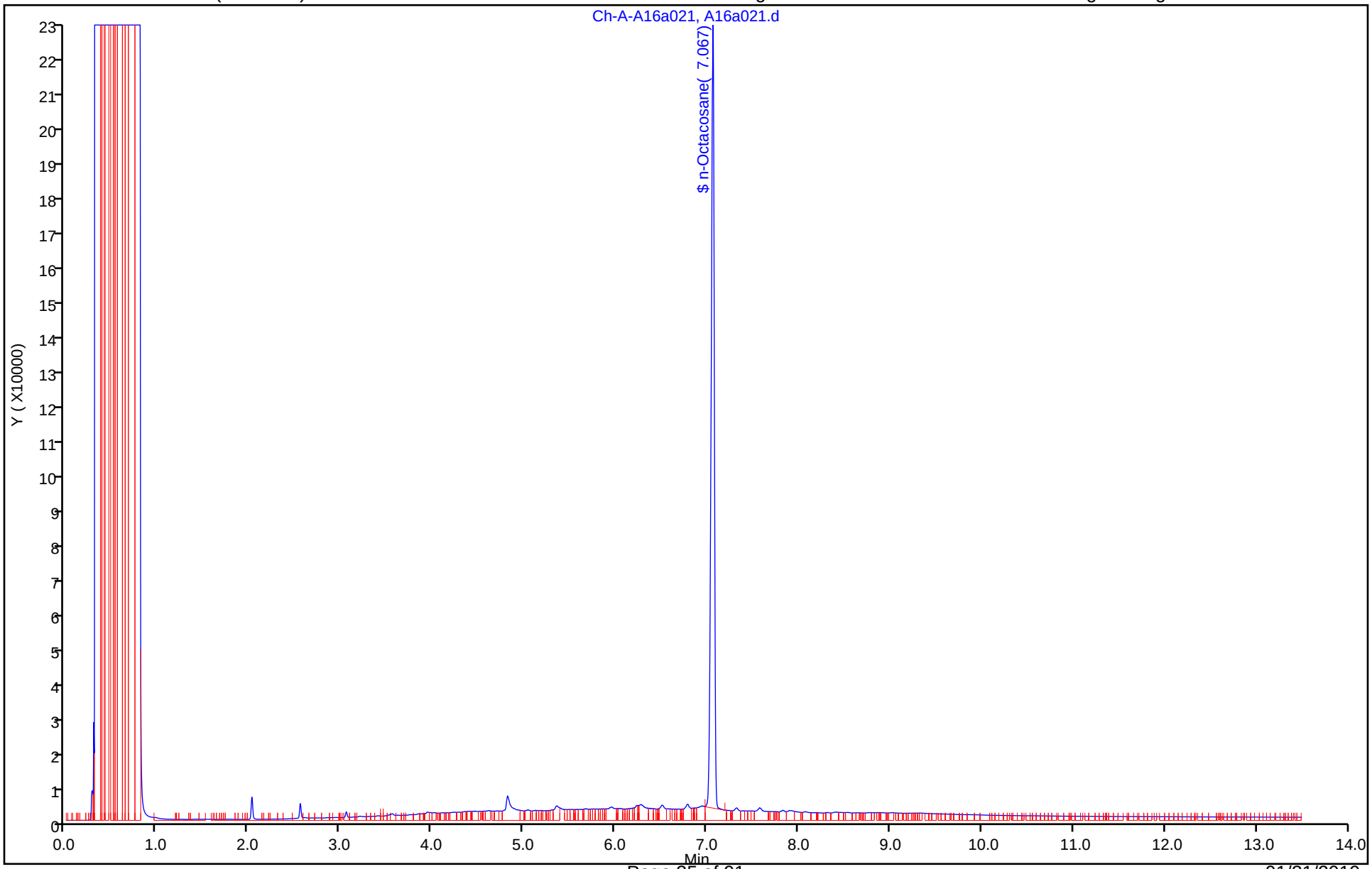
Report Date: 16-Jan-2019 17:06:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a021.d

Injection Date:	16-Jan-2019 16:37:50	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-D-7-A	Lab Sample ID:	440-90736-7	Worklist Smp#:	21
Client ID:	DG-AO7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a021.d				
Lims ID:	720-90736-D-7-A				
Client ID:	DG-AO7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 16:37:50	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 17:06:51	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 17:06:51

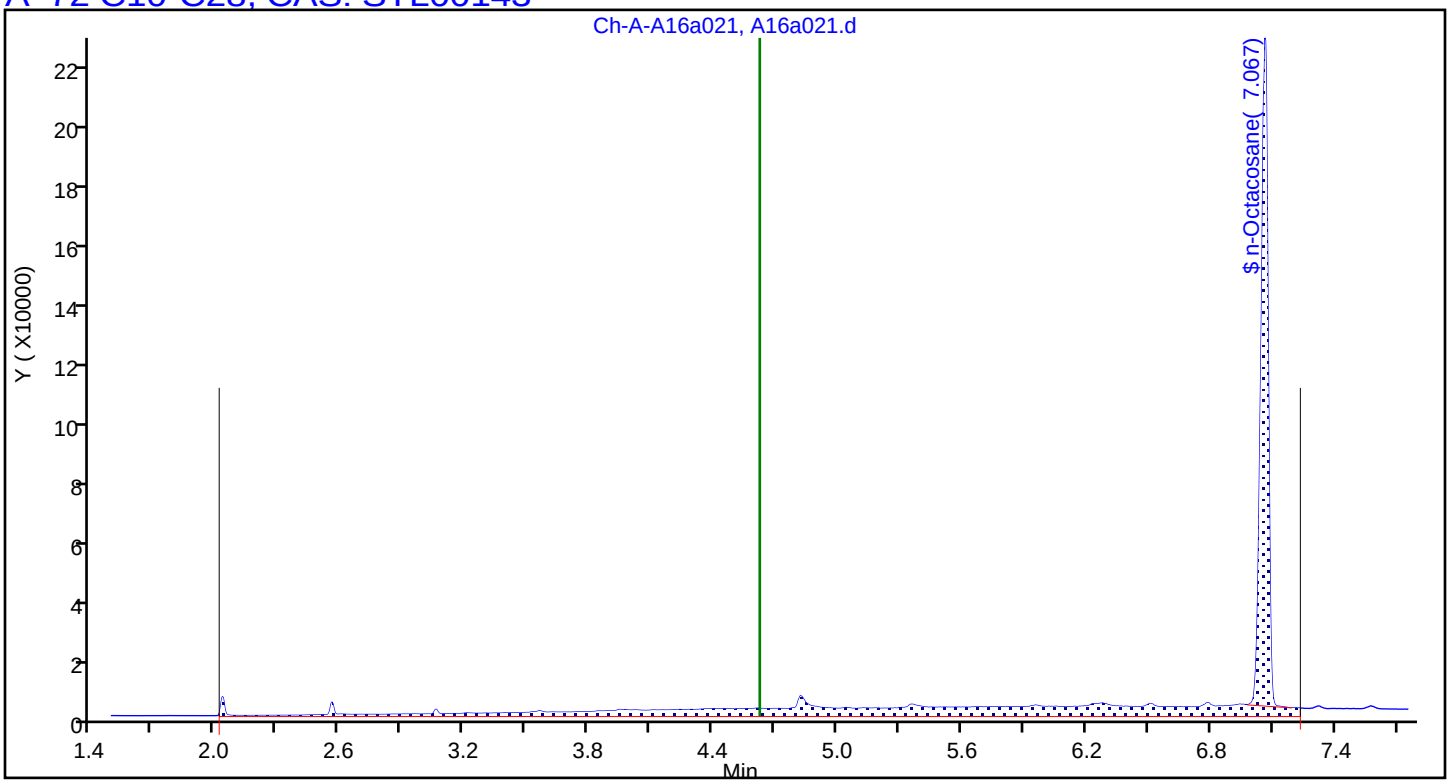
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	137.9	68.96
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 17:06:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a021.d				
Injection Date:	16-Jan-2019 16:37:50	Instrument ID:	GC70A		
Lims ID:	720-90736-D-7-A	Lab Sample ID:	440-90736-7		
Client ID:	DG-AO7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



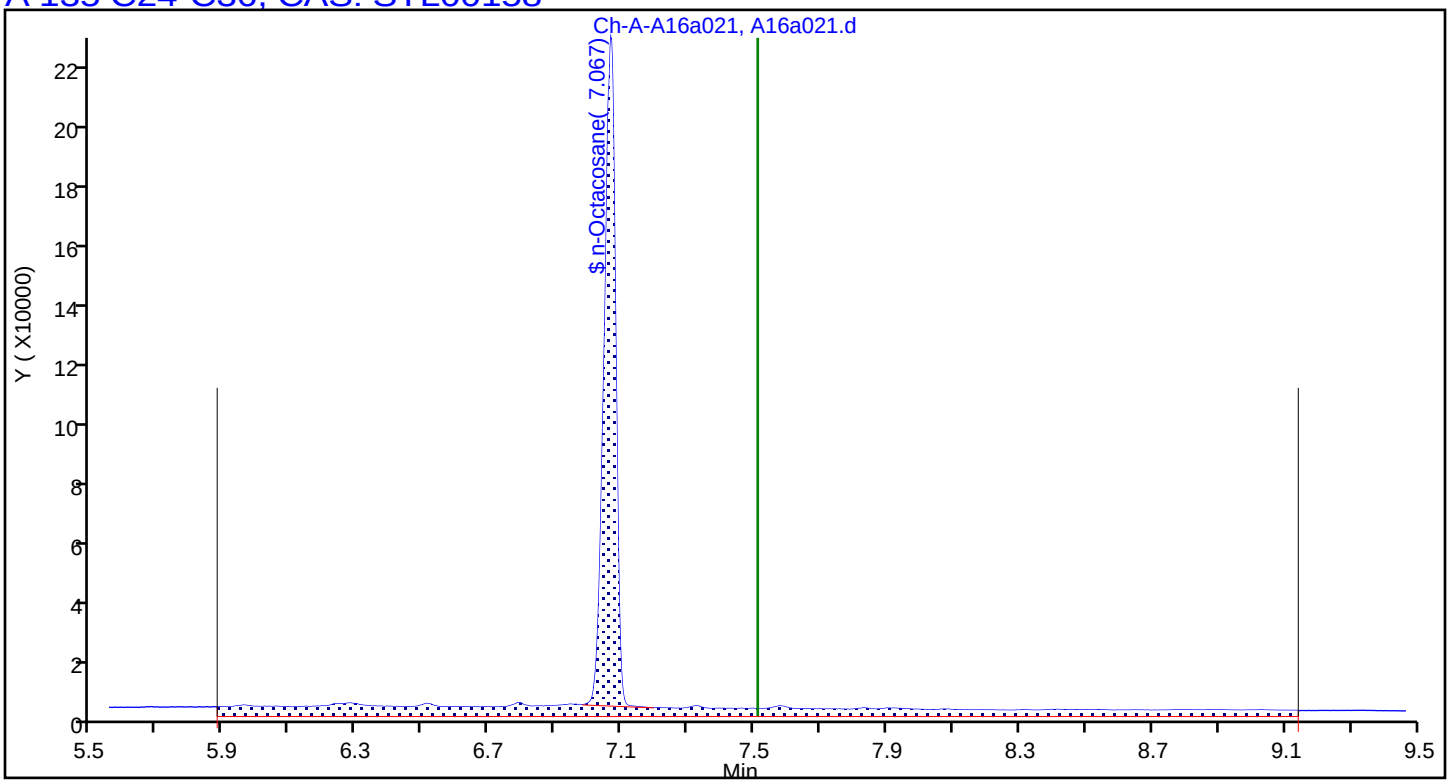
Report Date: 16-Jan-2019 17:06:51 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a021.d

Injection Date:	16-Jan-2019 16:37:50	Instrument ID:	GC70A		
Lims ID:	720-90736-D-7-A	Lab Sample ID:	440-90736-7		
Client ID:	DG-AO7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a016.d				
Lims ID:	720-90736-F-8-A				
Client ID:	DG-AM7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 14:49:17	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:09:34	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0324				
First Level Reviewer: doanm		Date:	16-Jan-2019 15:09:34		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		592811	163.7	
$ 127 n-Octacosane	7.068	7.070	-0.002	551573	149.9	
A 135 C24-C36	7.510	(5.878-9.142)		438756	121.1	

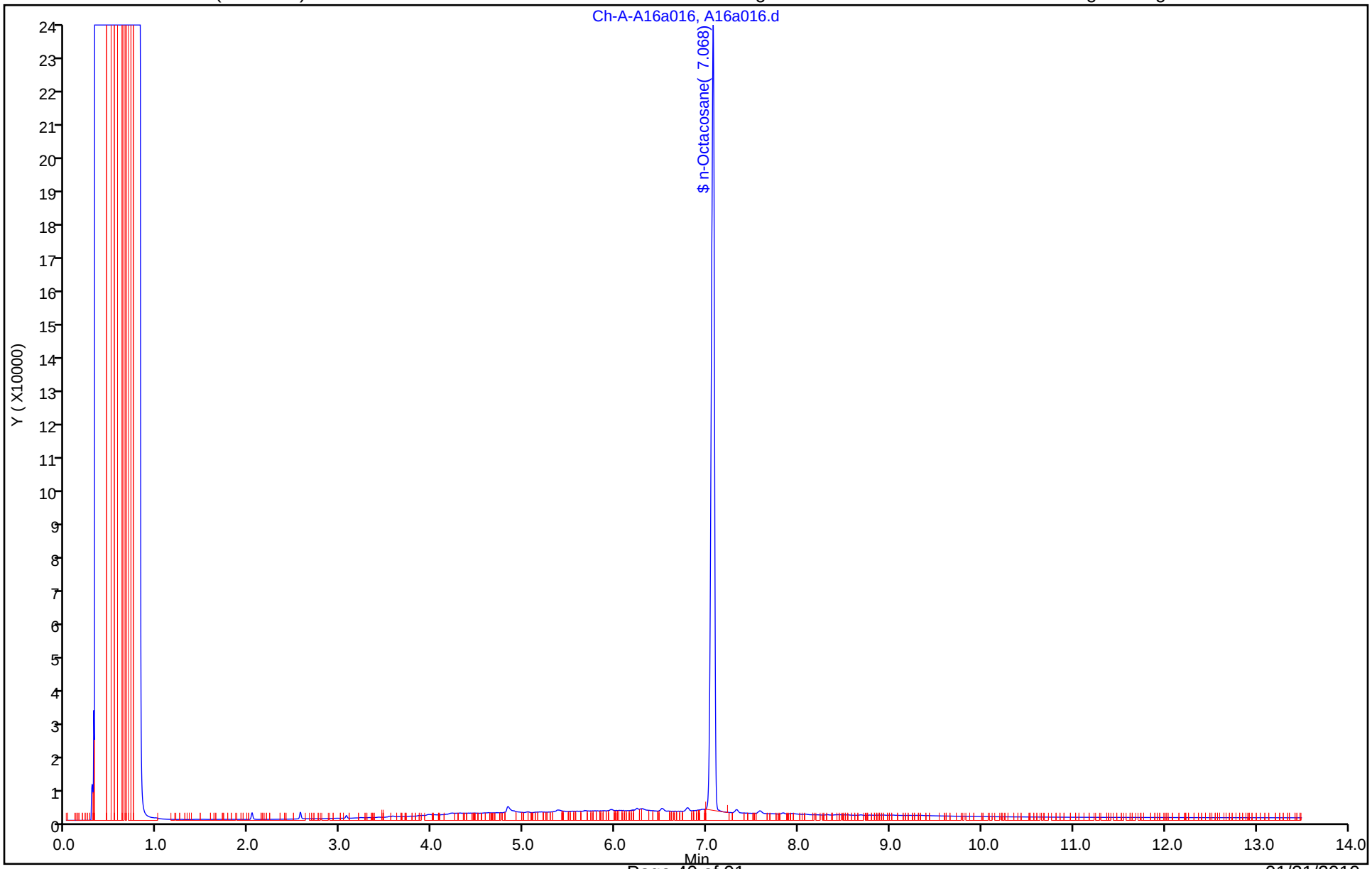
Report Date: 16-Jan-2019 15:09:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a016.d

Injection Date:	16-Jan-2019 14:49:17	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-F-8-A	Lab Sample ID:	440-90736-8	Worklist Smp#:	16
Client ID:	DG-AM7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a016.d				
Lims ID:	720-90736-F-8-A				
Client ID:	DG-AM7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 14:49:17	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 15:09:34	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0324				

First Level Reviewer: doanm Date: 16-Jan-2019 15:09:34

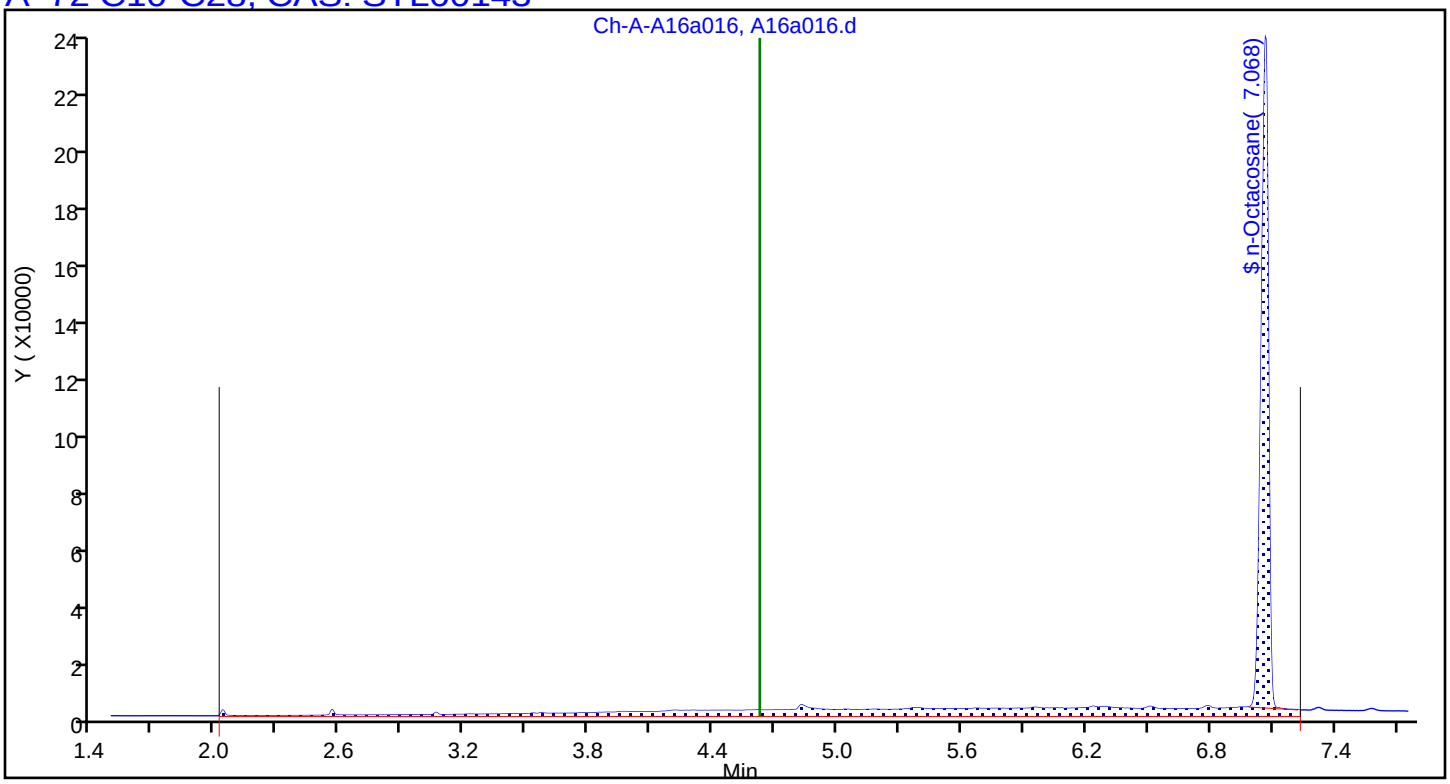
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	149.9	74.96
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 15:09:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a016.d				
Injection Date:	16-Jan-2019 14:49:17	Instrument ID:	GC70A		
Lims ID:	720-90736-F-8-A	Lab Sample ID:	440-90736-8		
Client ID:	DG-AM7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

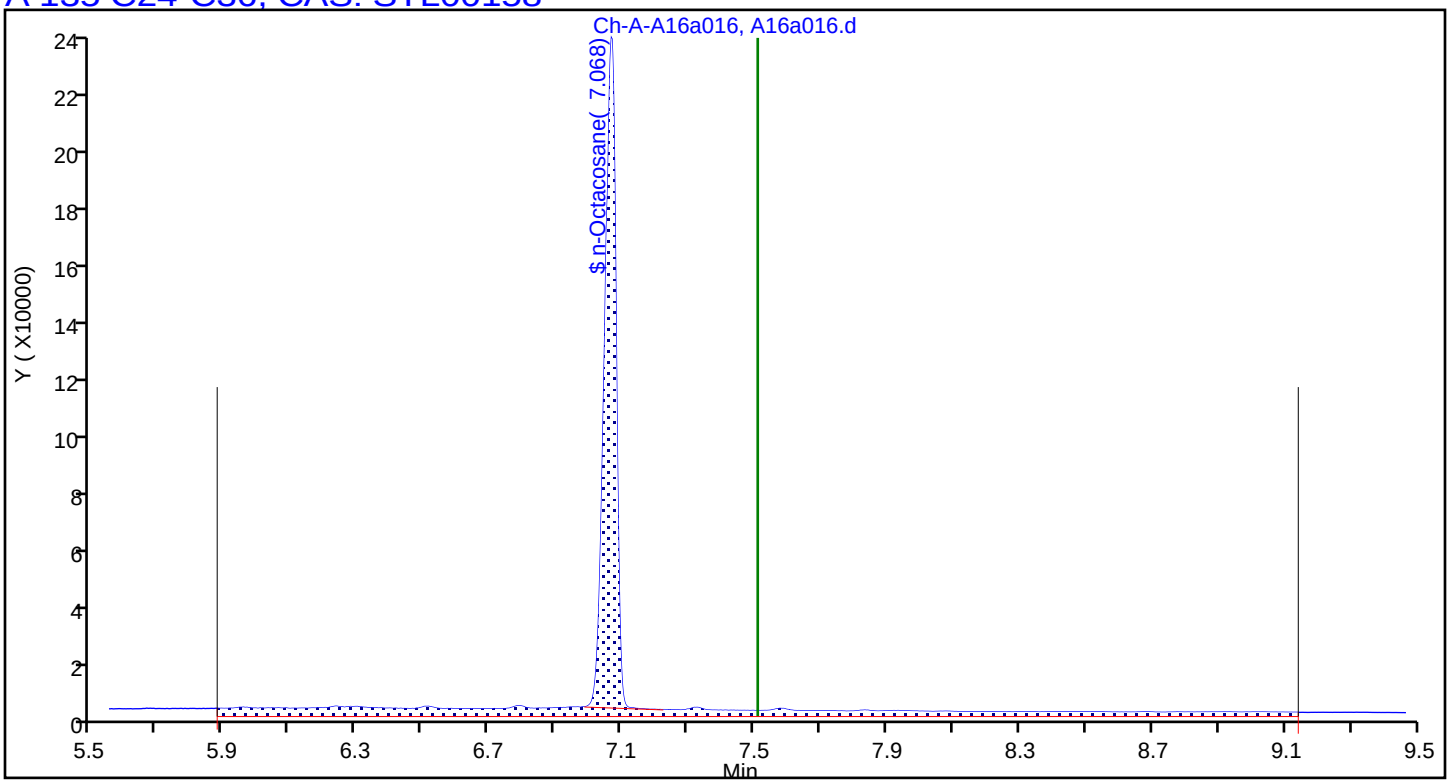


Report Date: 16-Jan-2019 15:09:34 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a016.d				
Injection Date:	16-Jan-2019 14:49:17	Instrument ID:	GC70A		
Lims ID:	720-90736-F-8-A	Lab Sample ID:	440-90736-8		
Client ID:	DG-AM7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a025.d				
Lims ID:	720-90736-E-9-A				
Client ID:	DG-AK7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 18:04:29	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 20:41:23	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 20:41:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		557797	154.0	
$ 127 n-Octacosane	7.065	7.070	-0.005	521671	141.8	
A 135 C24-C36	7.510	(5.878-9.142)		394945	109.0	

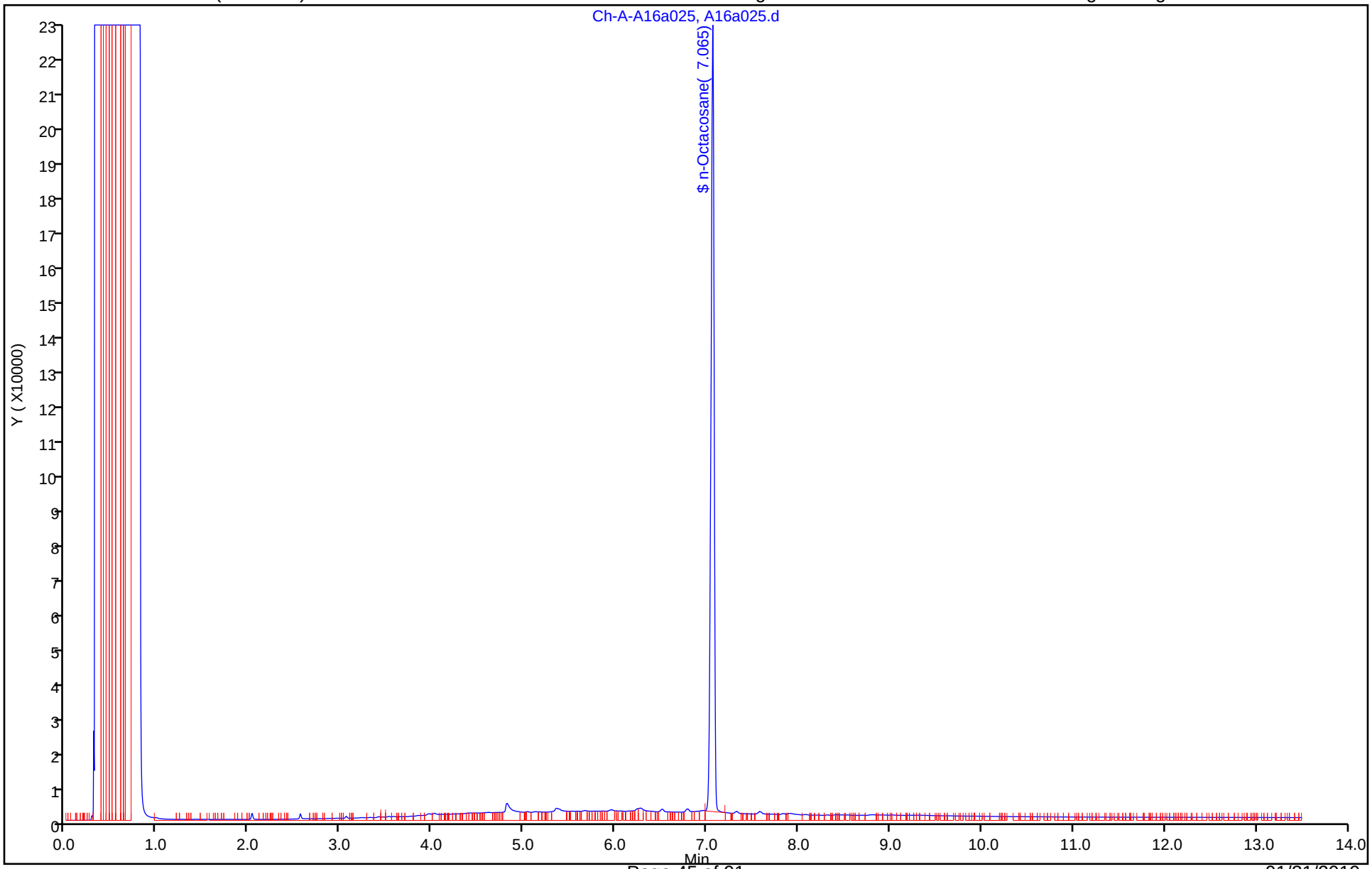
Report Date: 16-Jan-2019 20:41:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a025.d

Injection Date:	16-Jan-2019 18:04:29	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-E-9-A	Lab Sample ID:	440-90736-9	Worklist Smp#:	25
Client ID:	DG-AK7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a025.d
Lims ID: 720-90736-E-9-A
Client ID: DG-AK7W
Sample Type: Client
Inject. Date: 16-Jan-2019 18:04:29 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 16-Jan-2019 20:41:23 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0326

First Level Reviewer: barnettl Date: 16-Jan-2019 20:41:23

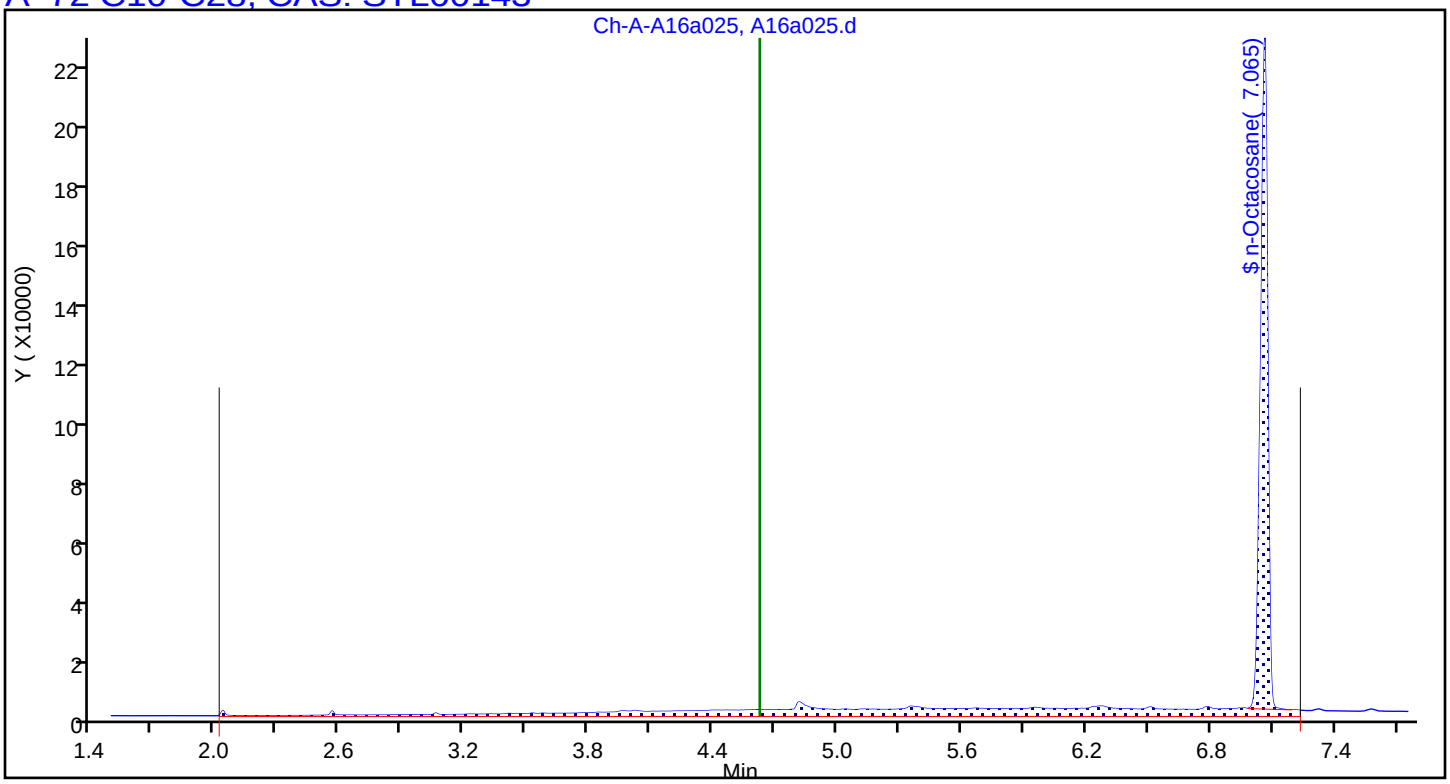
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	141.8	70.90
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 20:41:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a025.d				
Injection Date:	16-Jan-2019 18:04:29	Instrument ID:	GC70A		
Lims ID:	720-90736-E-9-A	Lab Sample ID:	440-90736-9		
Client ID:	DG-AK7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



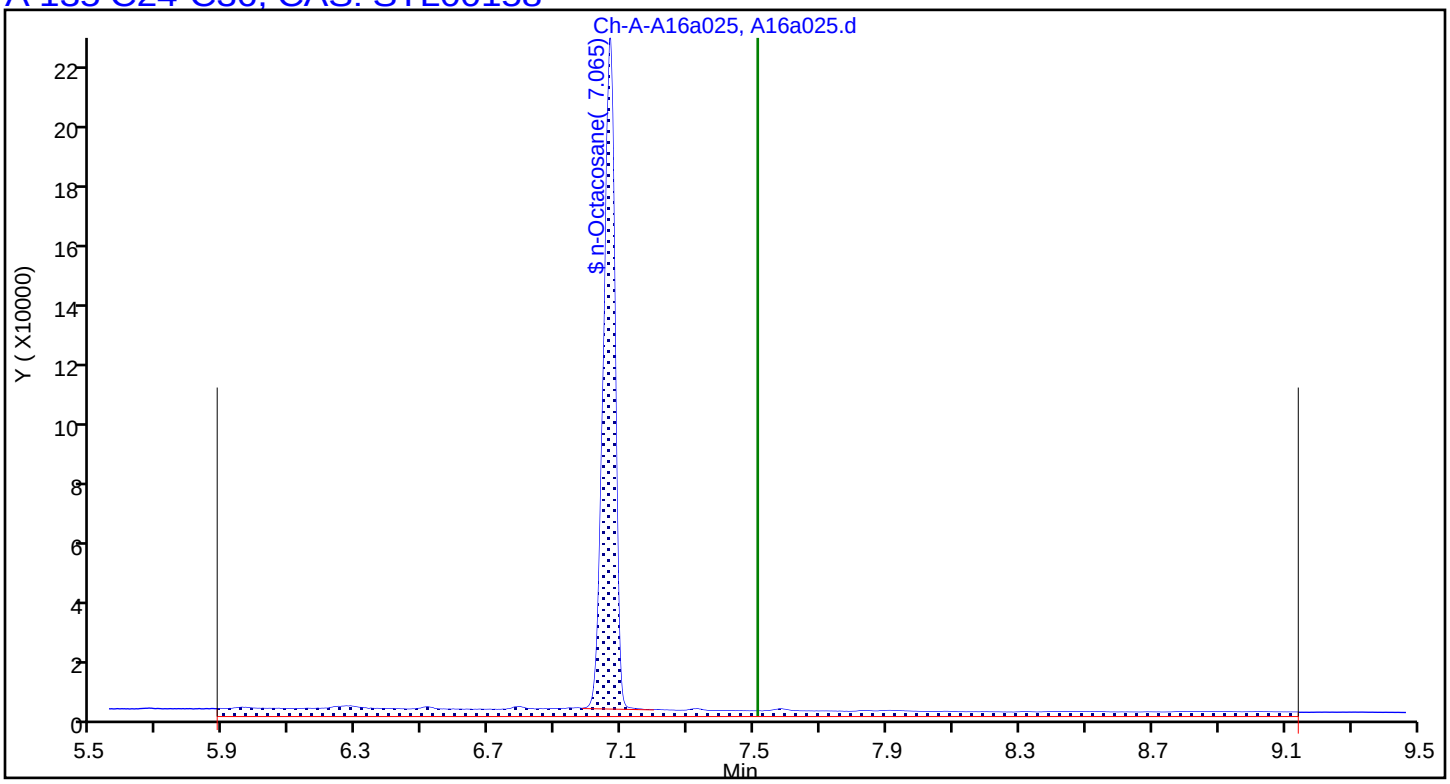
Report Date: 16-Jan-2019 20:41:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a025.d

Injection Date:	16-Jan-2019 18:04:29	Instrument ID:	GC70A		
Lims ID:	720-90736-E-9-A	Lab Sample ID:	440-90736-9		
Client ID:	DG-AK7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a010.d
Lims ID: 720-90736-D-10-C
Client ID: DG-AI7W
Sample Type: Client
Inject. Date: 16-Jan-2019 12:39:53 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 16-Jan-2019 13:05:22 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0324

First Level Reviewer: doanm Date: 16-Jan-2019 13:05:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 197 C7 Range	0.639	(0.173-1.105)		27379438	7558.9	
A 3 C8 Range	1.324	(1.105-1.543)		8166	2.25	
A 4 C8-C9	1.560	(1.105-2.015)		17237	4.76	
A 7 C8-C10	1.730	(1.105-2.355)		29697	8.20	
A 8 C9 Range	1.779	(1.543-2.015)		9070	2.50	
A 22 C7-C14	1.846	(0.200-3.492)		27474314	7585.1	
A 9 C8-C11	1.893	(1.105-2.680)		42753	11.8	
A 10 C9-C10	1.878	(1.543-2.212)		18142	5.01	
A 12 C10 Range	2.185	(2.015-2.355)		12460	3.44	
A 13 C9-C12	2.259	(1.543-2.975)		50524	13.9	
A 16 C10-C11	2.348	(2.015-2.680)		25515	7.04	
A 17 Mineral Spirits	2.392	(1.543-3.240)		70027	19.3	
A 18 Stoddard Solvent	2.392	(1.543-3.240)		70027	19.3	
A 196 C9-C13	2.392	(1.543-3.240)		38876	10.7	
A 15 C8-C15	2.433	(1.105-3.762)		131937	36.4	
A 20 C10-C12	2.495	(2.015-2.975)		41453	11.4	
A 23 C11 Range	2.518	(2.355-2.680)		13055	3.60	
A 21 C8-C16	2.520	(1.105-3.935)		159570	44.1	
A 24 C11-C12	2.665	(2.355-2.975)		28993	8.00	
A 30 C9-C16	2.739	(1.543-3.935)		151403	41.8	
A 29 C8-C18	2.823	(1.105-4.540)		297491	74.7	
A 26 Jet Fuel JP-8	2.823	(1.105-4.540)		241020	0	
A 27 C8-C18 DRO	2.823	(1.105-4.540)		297491	82.1	
A 192 C12 Range	2.828	(2.680-2.975)		15938	4.40	
A 31 C9 - C17	2.848	(1.543-4.152)		194891	53.8	
A 32 C12-C13	2.960	(2.680-3.240)		35441	9.78	
34 C13	2.993	3.008	-0.015	2826	0.7802	
A 33 C9 - C18	3.042	(1.543-4.540)		289324	79.9	
A 35 C12-C14	3.086	(2.680-3.492)		56898	15.7	
A 194 C13 Range	3.108	(2.975-3.240)		19502	5.38	
A 193 C14 Range	3.208	(3.172-3.243)		5396	1.49	
A 36 C13-C14	3.233	(2.975-3.492)		40959	11.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 199 C10-C18	3.278	(2.015-4.540)		280253	NC	
39 n-Tetradecane	3.442	3.290	0.152	13	0.003589	
A 37 C8-C22	3.322	(1.105-5.538)		597195	164.9	
A 38 C13-C15	3.368	(2.975-3.762)		73245	20.2	
A 40 C14-C15	3.501	(3.240-3.762)		53743	14.8	
A 44 C14-C16	3.588	(3.240-3.935)		81376	22.5	
A 43 C8-C24	3.626	(1.105-6.147)		757549	209.1	
A 45 C10-C21	3.666	(2.015-5.317)		510603	141.0	
A 46 C15-C16	3.713	(3.492-3.935)		59919	16.5	
A 47 C10-C22	3.777	(2.015-5.538)		579957	160.1	
A 48 C9-C24	3.845	(1.543-6.147)		749382	206.9	
A 52 C10-C23	3.947	(2.015-5.878)		670766	185.2	
A 53 C11-C22	3.947	(2.355-5.538)		567497	156.7	
A 51 C16-C17	3.957	(3.762-4.152)		71120	19.6	
A 54 C12-C21	3.998	(2.680-5.317)		485088	133.9	
A 55 C9-C25	4.000	(1.543-6.457)		831998	229.7	
A 56 C10-C24	4.081	(2.015-6.147)		740311	204.4	
A 57 C12-C22	4.109	(2.680-5.538)		554441	153.1	
A 59 C8-C28	4.171	(1.105-7.237)		1040025	287.1	
A 63 C10-C25	4.236	(2.015-6.457)		822927	227.2	
A 61 C17-C18	4.238	(3.935-4.540)		137920	38.1	
A 64 C13-C22	4.257	(2.975-5.538)		538503	148.7	
A 62 C15-C20	4.270	(3.492-5.048)		354264	97.8	
A 14 C12-C23	4.279	(2.680-5.878)		645251	178.1	
A 67 C12-C24	4.413	(2.680-6.147)		714796	197.3	
A 69 C8-C30	4.420	(1.105-7.735)		1155783	319.1	
A 66 C13-C23	4.427	(2.975-5.878)		629312	173.7	
A 68 C18-C19	4.477	(4.152-4.802)		166184	45.9	
71 C19	4.597	4.607	-0.010	12366	3.41	
A 72 C10-C28	4.626	(2.015-7.237)		1022788	282.4	
A 60 Diesel	4.626	(2.015-7.237)		1022788	282.4	
A 70 C16-C22	4.650	(3.762-5.538)		465257	128.4	
A 75 C7-C36	4.658	(0.173-9.142)		28828293	7958.9	
A 73 C8-C32	4.678	(1.105-8.250)		1288788	355.8	
A 74 C19-C20	4.794	(4.540-5.048)		156424	43.2	
A 77 C10-C30	4.875	(2.015-7.735)		1138545	314.3	
A 78 C8-C34	4.898	(1.105-8.692)		1377468	380.3	
A 195 C13-C27	4.975	(2.975-6.975)		914015	252.3	
A 79 C20-C21	5.059	(4.802-5.317)		158599	43.8	
A 81 C13-C28	5.106	(2.975-7.237)		981334	270.9	
A 80 C8-C36	5.123	(1.105-9.142)		1448855	400.0	
A 83 C10-C32	5.133	(2.015-8.250)		1271551	351.1	
A 85 C21-C22	5.293	(5.048-5.538)		143278	39.6	
A 84 C20-C23	5.340	(4.802-5.878)		318762	88.0	
A 86 C13-C30	5.355	(2.975-7.735)		1097091	302.9	
A 89 C10-C36	5.578	(2.015-9.142)		1431617	395.2	
A 88 C22-C23	5.598	(5.317-5.878)		160162	44.2	
A 92 C8-C40	5.605	(1.105-10.105)		1572424	434.1	
A 90 C13-C32	5.613	(2.975-8.250)		1230097	339.6	
A 91 C12-C34	5.686	(2.680-8.692)		1334715	368.5	
A 198 C18-C28	5.694	(4.152-7.237)		836967	231.1	
A 96 C9-C40	5.824	(1.543-10.105)		1564258	431.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 94 C23-C24	5.843	(5.538-6.147)		160354	44.3	
A 95 C18-C30	5.943	(4.152-7.735)		952725	263.0	
A 99 C13-C36	6.058	(2.975-9.142)		1390163	383.8	
A 101 C10-C40	6.060	(2.015-10.105)		1555187	429.4	
A 100 C17-C32	6.093	(3.935-8.250)		1129218	311.8	
A 98 C24-C25	6.168	(5.878-6.457)		152161	42.0	
102 C25	6.240	6.242	-0.002	12184	3.36	
A 103 C21-C30	6.392	(5.048-7.735)		701867	193.8	
A 104 C24-C27	6.427	(5.878-6.975)		284702	78.6	
A 106 C25-C26	6.432	(6.147-6.717)		146958	40.6	
A 105 C16-C36	6.452	(3.762-9.142)		1316918	363.6	
A 107 C20-C32	6.526	(4.802-8.250)		919546	253.9	
A 111 C8-C44	6.527	(1.105-11.948)		1718148	474.3	
A 109 C17-C36	6.538	(3.935-9.142)		1289284	355.9	
A 113 C13-C40	6.540	(2.975-10.105)		1513733	417.9	
A 112 C13 - C40	6.540	(2.975-10.105)		1513733	417.9	
A 108 C18-C36	6.647	(4.152-9.142)		1245797	343.9	
A 114 Hydraulic Fluid	6.647	(4.152-9.142)		1245797	343.9	
A 116 C25-C28	6.692	(6.147-7.237)		282476	78.0	
A 115 C26-C27	6.716	(6.457-6.975)		132541	36.6	
A 117 C22-C32	6.783	(5.317-8.250)		760947	210.1	
118 C27	6.793	6.797	-0.004	21736	6.00	
A 120 C23-C32	6.894	(5.538-8.250)		691593	190.9	
A 121 C16-C40	6.918	(3.762-10.075)		1437489	396.9	
A 210 C20-C36	6.972	(4.802-9.142)		1079613	298.1	
A 122 C27-C28	6.977	(6.717-7.237)		135517	37.4	
A 126 C10-C44	6.982	(2.015-11.948)		1700910	469.6	
A 123 C24-C32	7.064	(5.878-8.250)		600784	165.9	
$ 127 n-Octacosane	7.077	7.070	0.007	510271	138.7	
A 124 C22-C35	7.105	(5.317-8.893)		882565	243.7	
A 125 C23-C34	7.115	(5.538-8.692)		780273	215.4	
A 130 C18-C40	7.128	(4.152-10.105)		1369366	378.1	
A 129 C28-C29	7.215	(6.975-7.455)		119578	33.0	
A 128 C23-C35	7.216	(5.538-8.893)		813212	224.5	
A 133 C19-C40	7.323	(4.540-10.105)		1274933	352.0	
132 C29	7.333	7.332	0.001	3275	0.9042	
A 131 C23-C36	7.340	(5.538-9.142)		851660	235.1	
A 137 C20-C40	7.453	(4.802-10.105)		1203182	332.2	
A 136 C28-C31	7.459	(6.975-7.943)		227284	62.7	
A 139 C13-C44	7.462	(2.975-11.948)		1659456	458.1	
A 138 C29-C30	7.486	(7.237-7.735)		115757	32.0	
A 135 C24-C36	7.510	(5.878-9.142)		760851	210.1	
A 140 C25-C36	7.644	(6.147-9.142)		691305	190.9	
A 142 C30-C31	7.699	(7.455-7.943)		107705	29.7	
A 143 C29-C32	7.743	(7.237-8.250)		248763	68.7	
A 146 C23-C40	7.822	(5.538-10.105)		975230	269.2	
145 C31	7.863	7.843	0.020	2257	0.6231	
A 144 C17-C44	7.927	(3.935-11.918)		1556509	429.7	
A 148 C24-C40	7.992	(5.878-10.105)		884420	244.2	
A 147 C31-C32	7.993	(7.735-8.250)		133005	36.7	
A 200 C28-C36	8.058	(6.975-9.142)		476148	131.5	
A 150 C25-C40	8.126	(6.147-10.105)		814875	225.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
152 C33	8.307	8.327	-0.020	13632	3.76	
A 153 C32-C35	8.418	(7.943-8.893)		210416	58.1	
A 154 C33-C34	8.471	(8.250-8.692)		88680	24.5	
A 156 C32-C36	8.543	(7.943-9.142)		248864	68.7	
A 159 C29-C40	8.656	(7.237-10.075)		529400	146.2	
A 158 C33-C36	8.696	(8.250-9.142)		160066	44.2	
A 161 C23-C44	8.743	(5.538-11.948)		1120953	309.5	
A 162 C24-C44	8.913	(5.878-11.948)		1030143	284.4	
A 169 C35-C36	8.917	(8.692-9.142)		71386	19.7	
A 164 C31-C40	8.920	(7.735-10.105)		416641	115.0	
A 166 C33-C40	9.178	(8.250-10.105)		283636	78.3	
A 168 C36-C39	9.363	(8.893-9.833)		132342	36.5	
A 171 C35-C40	9.393	(8.692-10.095)		193964	53.5	
170 C38	9.418	9.438	-0.020	8962	2.47	
A 172 C36-C40	9.499	(8.893-10.105)		162017	44.7	
A 119 C29-C44	9.578	(7.237-11.918)		676054	186.6	
A 174 C37-C40	9.623	(9.142-10.105)		123569	34.1	
173 C39	9.717	9.683	0.034	4364	1.20	
A 175 C39-C40	9.823	(9.542-10.105)		66356	18.3	
A 167 C37-C38	9.938	(9.748-10.128)		42379	11.7	
176 C40	9.997	9.977	0.020	3378	0.9326	
A 134 C33-C44	10.099	(8.250-11.948)		429359	118.5	
A 151 C40-C44	10.891	(9.833-11.948)		175398	48.4	
A 155 C41-C44	11.012	(10.075-11.948)		148721	41.1	
$ 178 n-Triacontane-d62	13.307	13.288	0.019	3333	NC	
S 179 HC Dist (C10-C44)					470.4	
S 182 HC Dist (C8-C44)					475.2	
S 186 HC Dist (C10-C40)					429.4	
S 187 HC Dist (C10-C36)					395.2	
S 188 HC Dist (C13-C44)					454.9	
S 189 HC Dist (C13-C40)					413.8	
S 191 HC Dist (C13-C28)					270.9	
S 190 HC Dist (C8-C40)					434.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

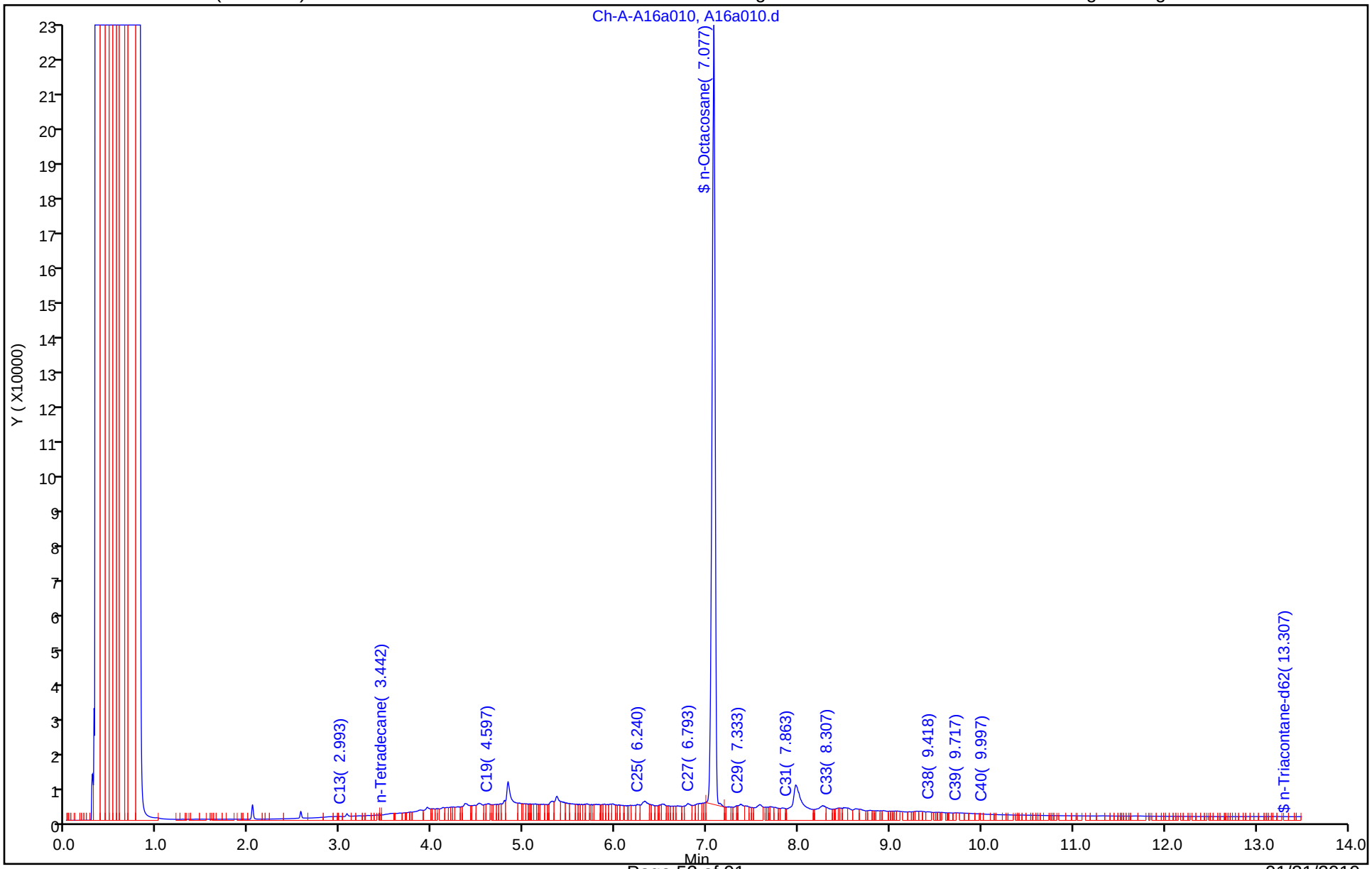
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a010.d

Injection Date:	16-Jan-2019 12:39:53	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-D-10-C	Lab Sample ID:	440-90736-10	Worklist Smp#:	10
Client ID:	DG-AI7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a010.d				
Lims ID:	720-90736-D-10-C				
Client ID:	DG-AI7W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 12:39:53	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 13:05:22	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0324				

First Level Reviewer: doanm Date: 16-Jan-2019 13:05:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	138.7	69.35
$ 178 n-Triacontane-d62	0	0	0.00

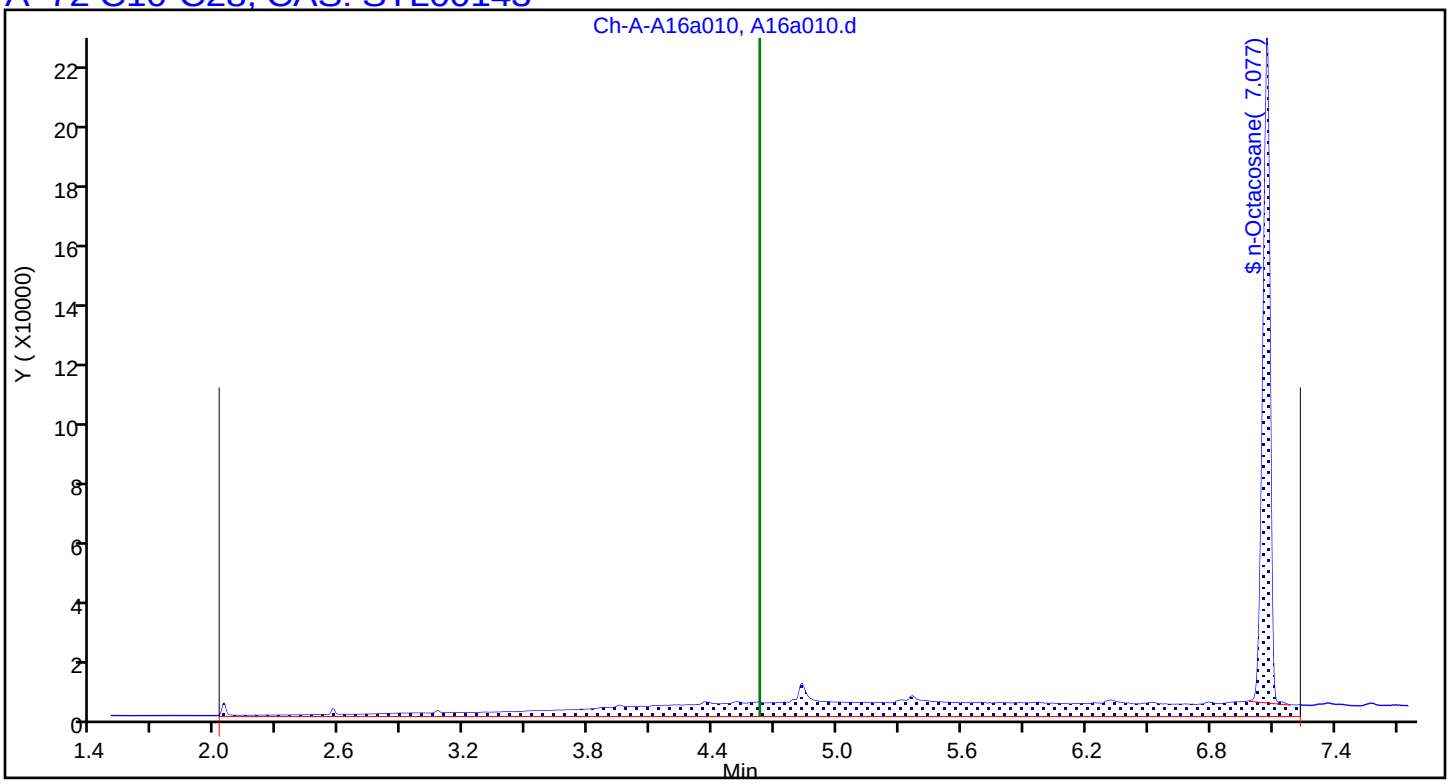
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a010.d

Injection Date:	16-Jan-2019 12:39:53	Instrument ID:	GC70A		
Lims ID:	720-90736-D-10-C	Lab Sample ID:	440-90736-10		
Client ID:	DG-AI7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



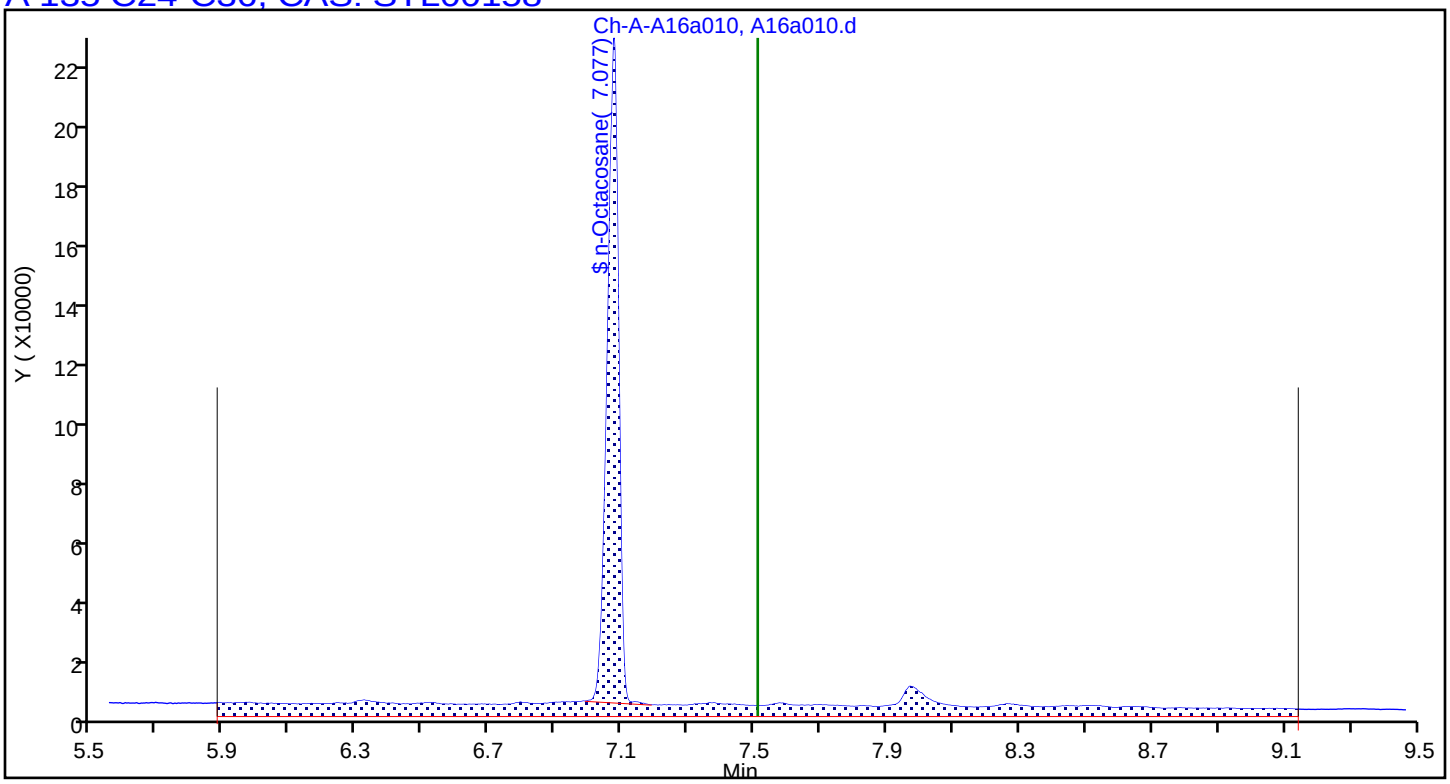
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a010.d

Injection Date:	16-Jan-2019 12:39:53	Instrument ID:	GC70A		
Lims ID:	720-90736-D-10-C	Lab Sample ID:	440-90736-10		
Client ID:	DG-AI7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a022.d				
Lims ID:	720-90736-E-11-A				
Client ID:	DG-AD9W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 16:59:26	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 17:20:14	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 17:20:14		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		2173794	600.1	
$ 127 n-Octacosane	7.068	7.070	-0.002	506888	137.8	
A 135 C24-C36	7.510	(5.878-9.142)		1901781	525.0	

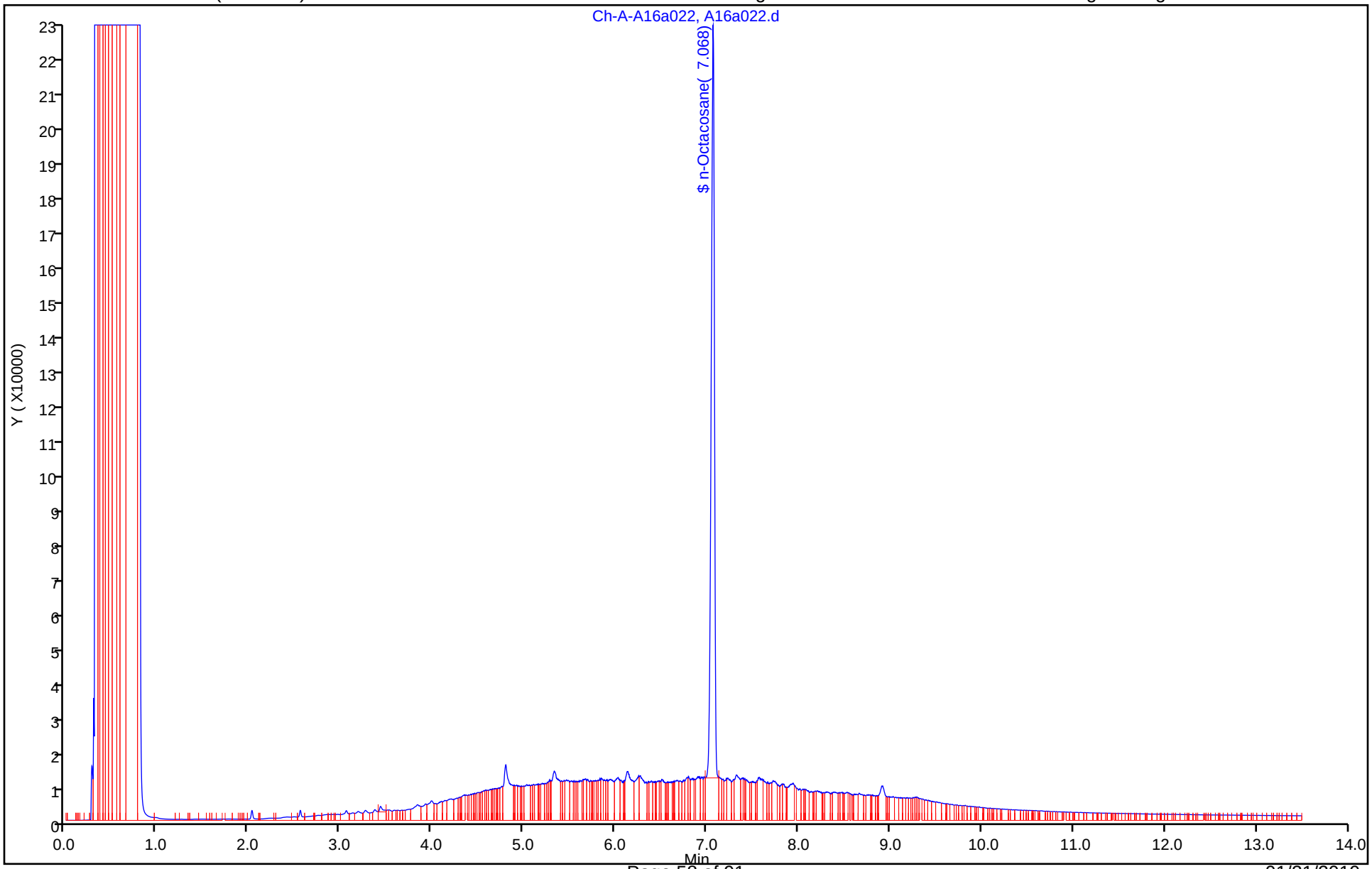
Report Date: 16-Jan-2019 17:20:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a022.d

Injection Date:	16-Jan-2019 16:59:26	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-E-11-A	Lab Sample ID:	440-90736-11	Worklist Smp#:	22
Client ID:	DG-AD9W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a022.d				
Lims ID:	720-90736-E-11-A				
Client ID:	DG-AD9W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 16:59:26	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 17:20:14	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 17:20:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	137.8	68.89
$ 178 n-Triacontane-d62	0.0	0	0.00

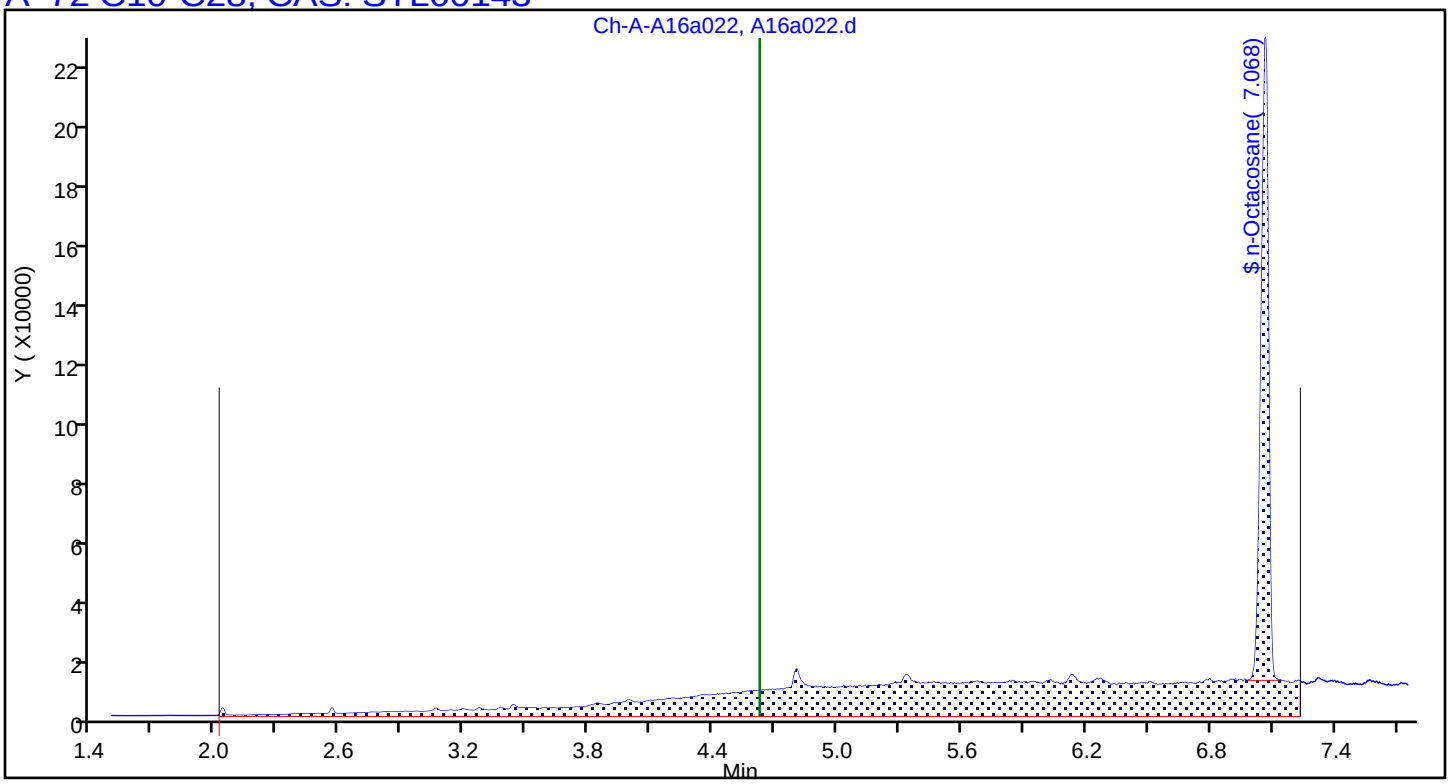
Report Date: 16-Jan-2019 17:20:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a022.d

Injection Date:	16-Jan-2019 16:59:26	Instrument ID:	GC70A		
Lims ID:	720-90736-E-11-A	Lab Sample ID:	440-90736-11		
Client ID:	DG-AD9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

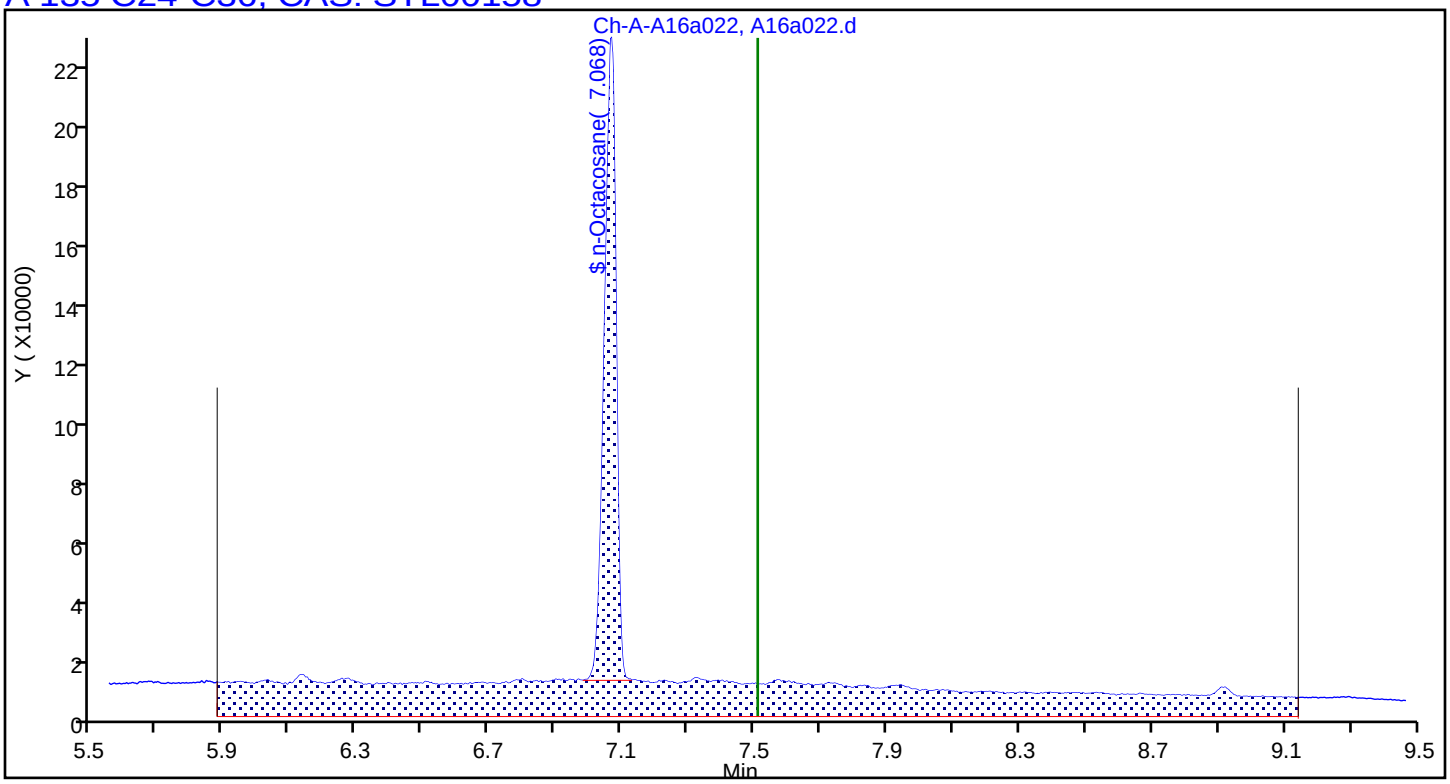


Report Date: 16-Jan-2019 17:20:15 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a022.d				
Injection Date:	16-Jan-2019 16:59:26	Instrument ID:	GC70A		
Lims ID:	720-90736-E-11-A	Lab Sample ID:	440-90736-11		
Client ID:	DG-AD9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a023.d				
Lims ID:	720-90736-F-12-A				
Client ID:	DG-AR9W				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 17:21:02	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 17:59:01	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 18:04:14		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		561804	155.1	
$ 127 n-Octacosane	7.067	7.070	-0.003	525622	142.9	
A 135 C24-C36	7.510	(5.878-9.142)		524571	144.8	

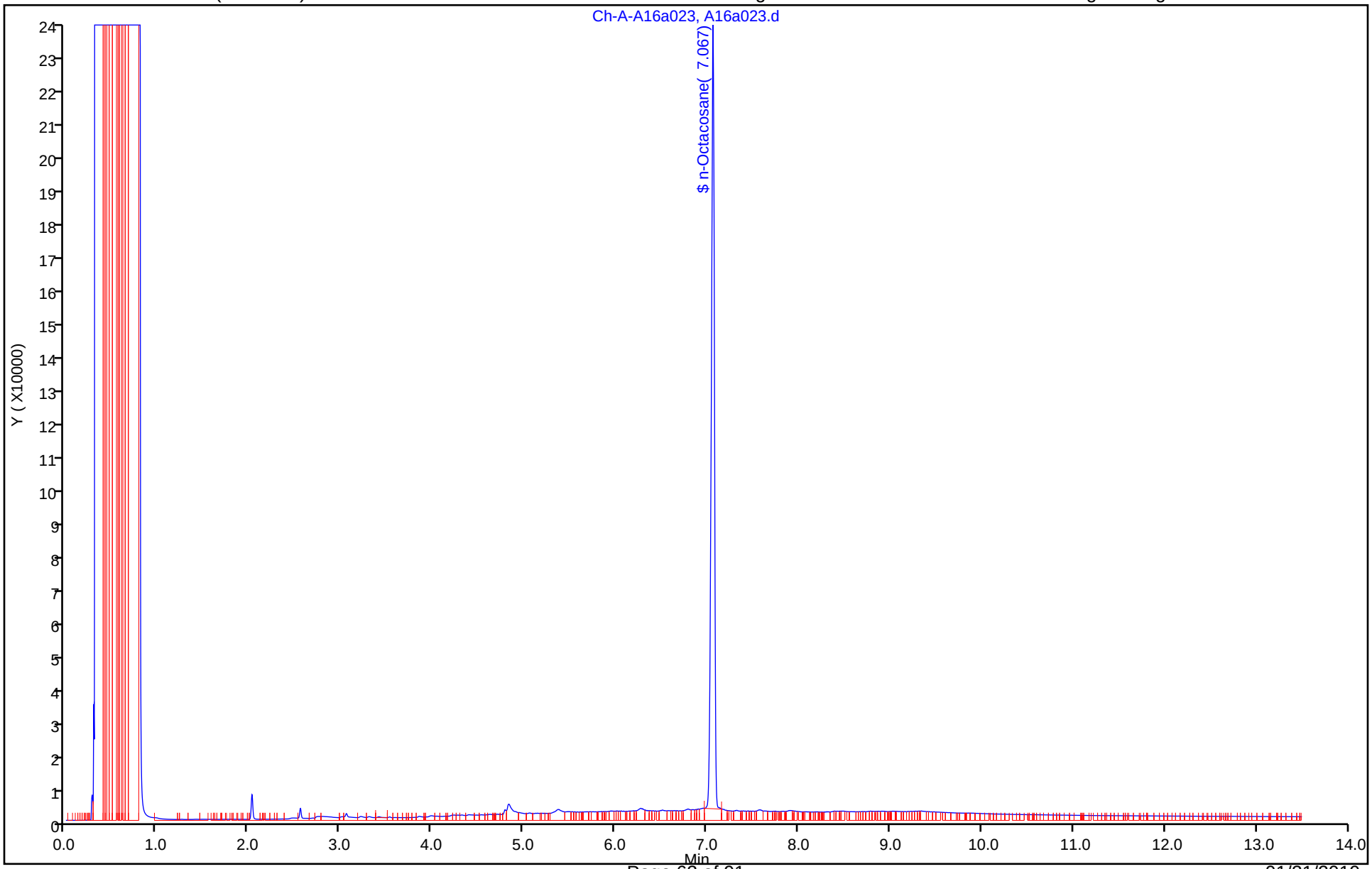
Report Date: 16-Jan-2019 18:04:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a023.d

Injection Date:	16-Jan-2019 17:21:02	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-F-12-A	Lab Sample ID:	440-90736-12	Worklist Smp#:	23
Client ID:	DG-AR9W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a023.d
Lims ID: 720-90736-F-12-A
Client ID: DG-AR9W
Sample Type: Client
Inject. Date: 16-Jan-2019 17:21:02 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 16-Jan-2019 17:59:01 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0326

First Level Reviewer: barnettl Date: 16-Jan-2019 18:04:14

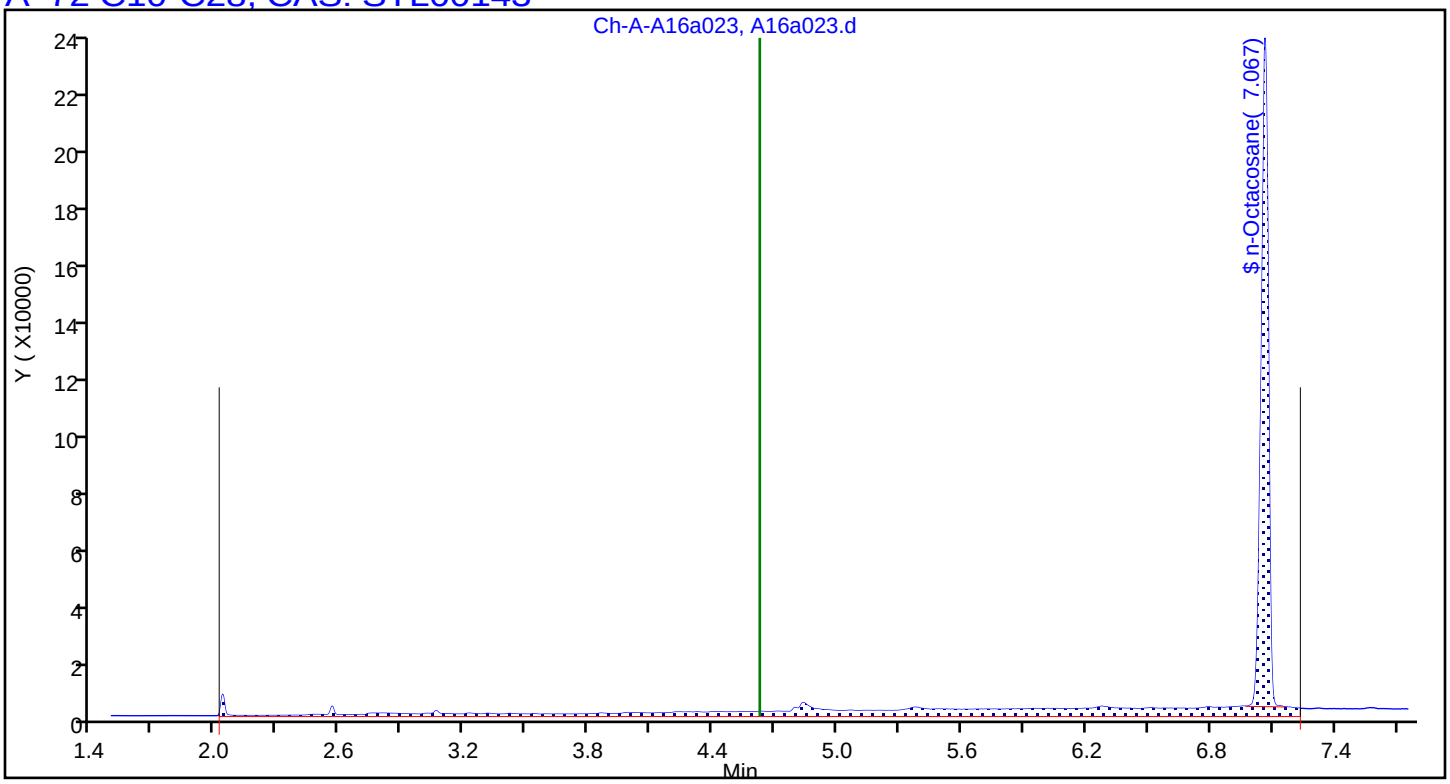
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	142.9	71.44
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 18:04:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a023.d				
Injection Date:	16-Jan-2019 17:21:02	Instrument ID:	GC70A		
Lims ID:	720-90736-F-12-A	Lab Sample ID:	440-90736-12		
Client ID:	DG-AR9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

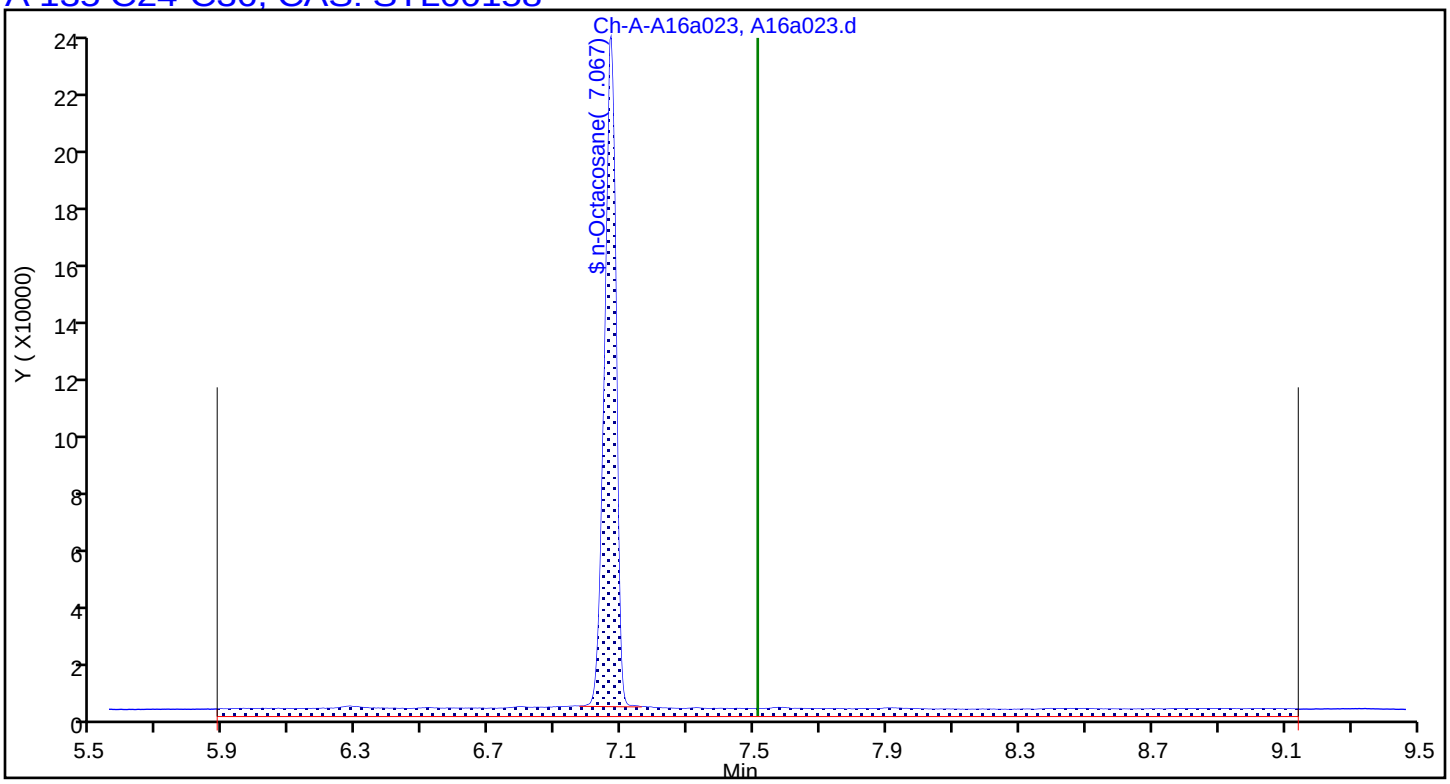


Report Date: 16-Jan-2019 18:04:26 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a023.d				
Injection Date:	16-Jan-2019 17:21:02	Instrument ID:	GC70A		
Lims ID:	720-90736-F-12-A	Lab Sample ID:	440-90736-12		
Client ID:	DG-AR9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a024.d				
Lims ID:	720-90736-E-13-A				
Client ID:	DUP-47				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 17:42:52	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 17:59:01	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 17:59:01		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		271353	74.9	
$ 127 n-Octacosane	7.067	7.070	-0.003	472657	128.5	
A 135 C24-C36	7.510	(5.878-9.142)		282345	78.0	

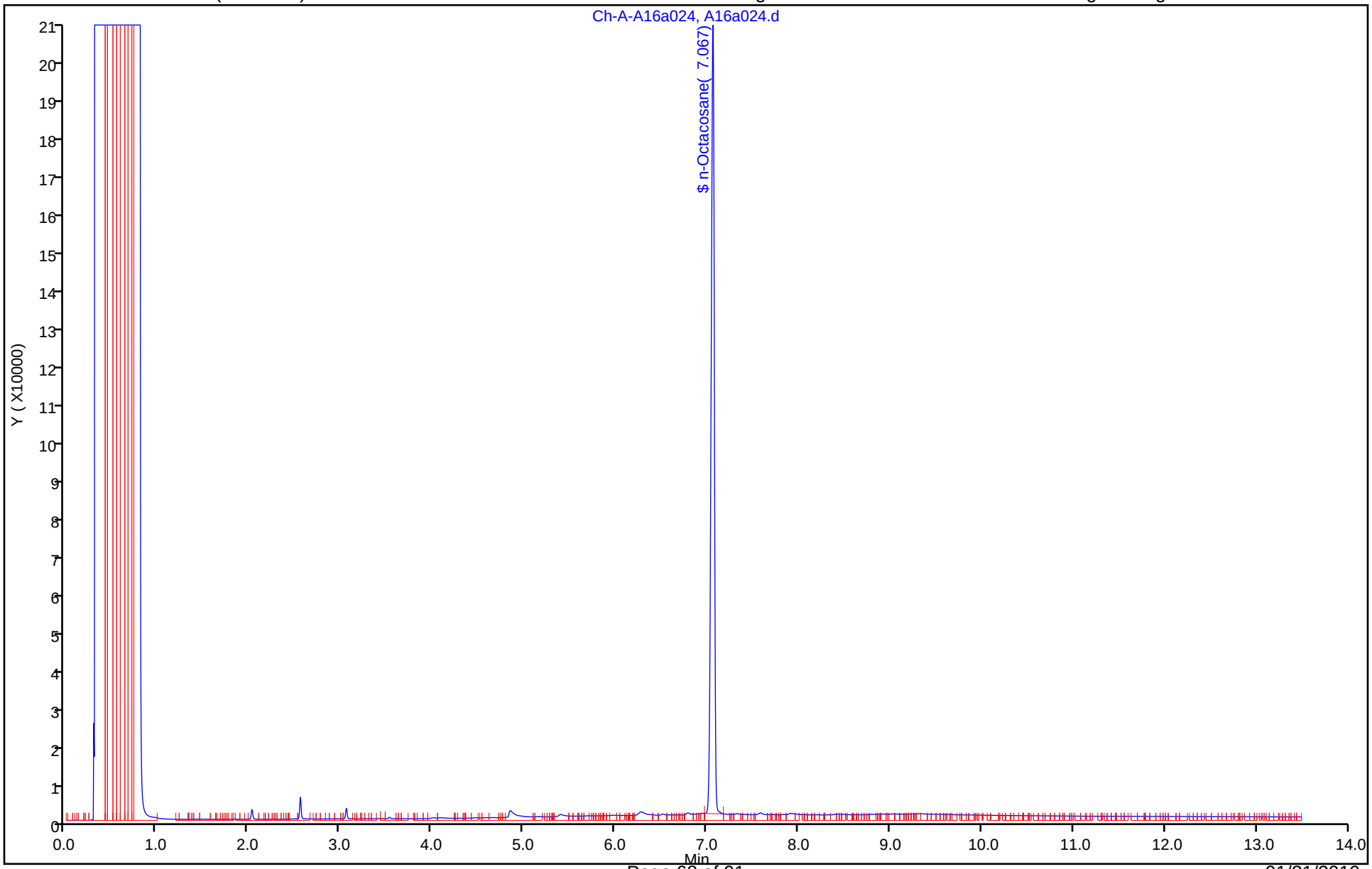
Report Date: 16-Jan-2019 17:59:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a024.d

Injection Date:	16-Jan-2019 17:42:52	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-E-13-A	Lab Sample ID:	440-90736-13	Worklist Smp#:	24
Client ID:	DUP-47				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a024.d				
Lims ID:	720-90736-E-13-A				
Client ID:	DUP-47				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 17:42:52	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 17:59:01	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 17:59:01

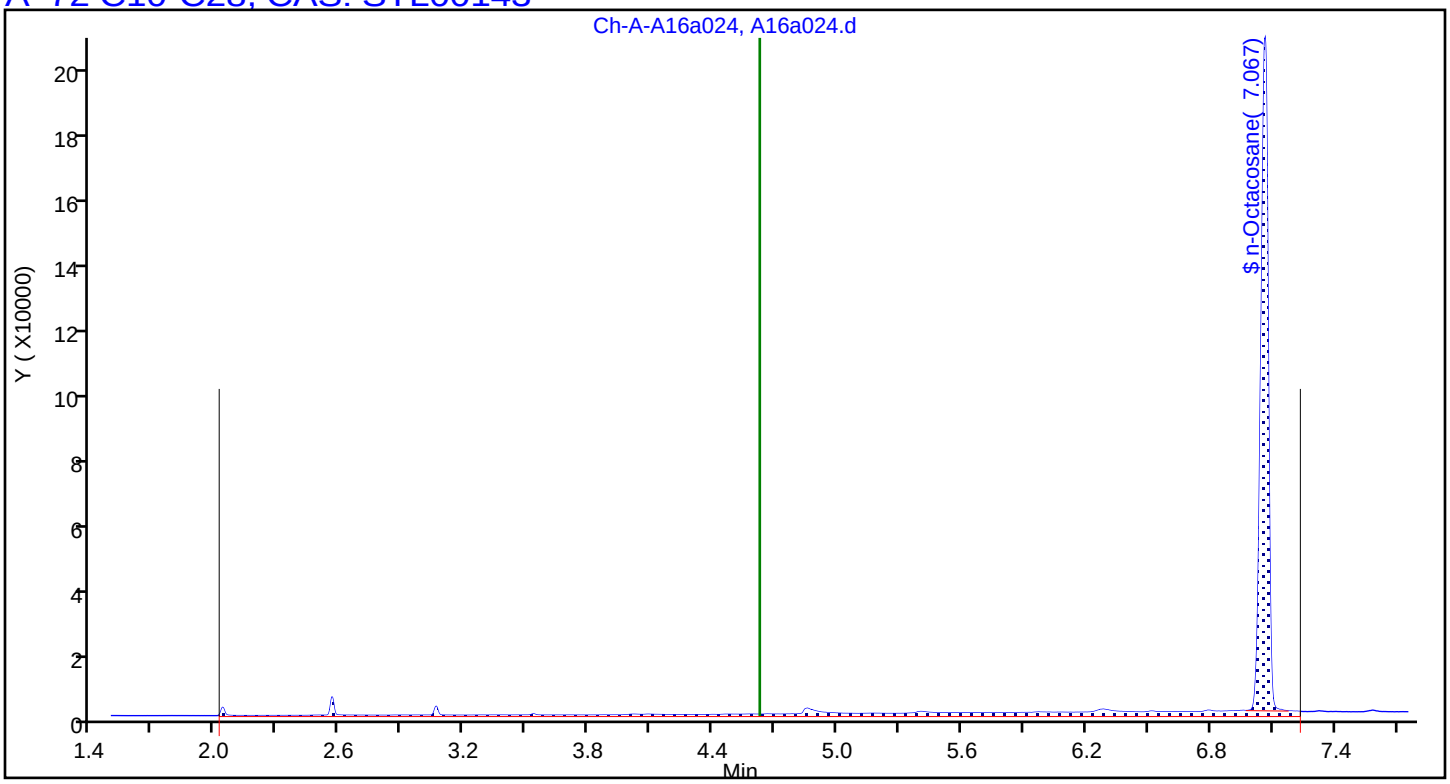
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	128.5	64.24
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 17:59:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a024.d				
Injection Date:	16-Jan-2019 17:42:52	Instrument ID:	GC70A		
Lims ID:	720-90736-E-13-A	Lab Sample ID:	440-90736-13		
Client ID:	DUP-47				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

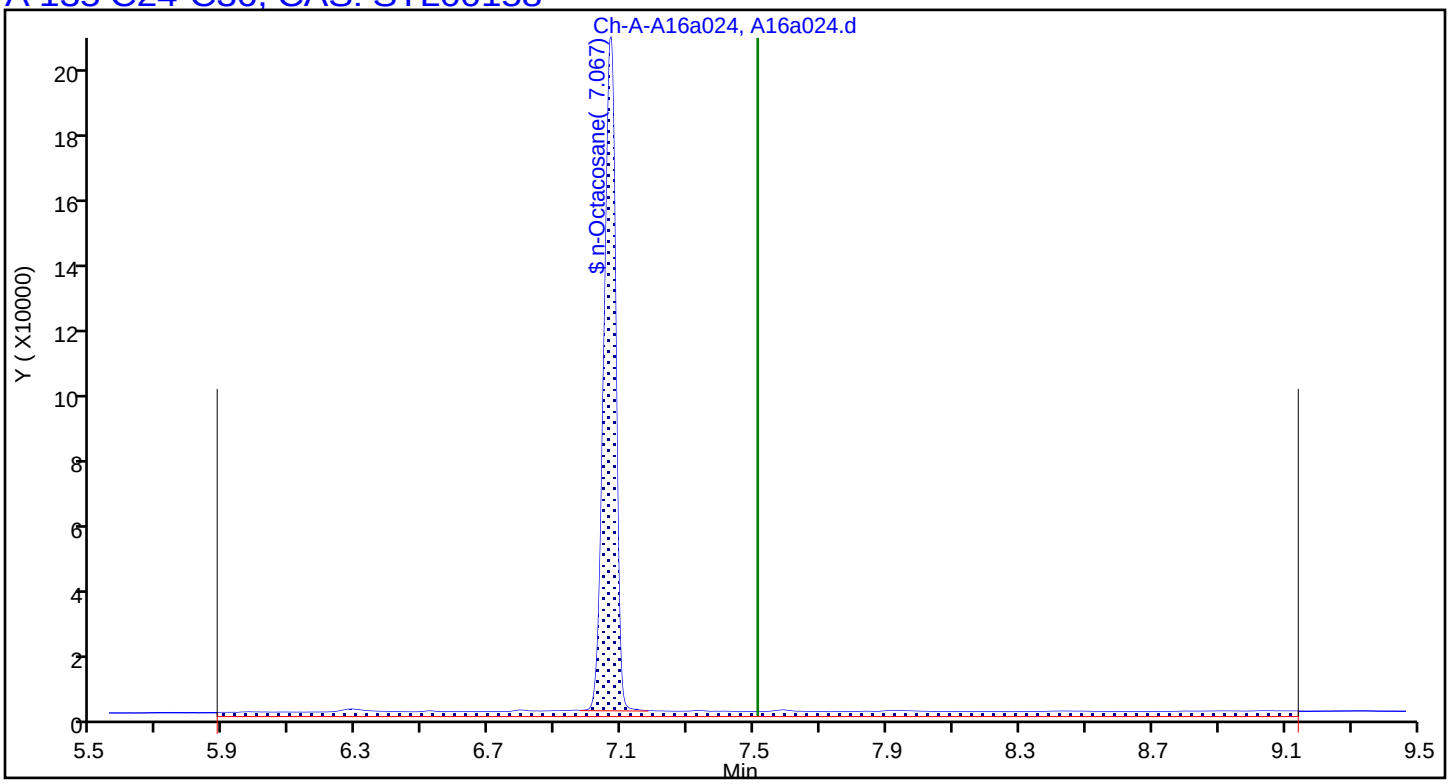


Report Date: 16-Jan-2019 17:59:01 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a024.d				
Injection Date:	16-Jan-2019 17:42:52	Instrument ID:	GC70A		
Lims ID:	720-90736-E-13-A	Lab Sample ID:	440-90736-13		
Client ID:	DUP-47				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a026.d				
Lims ID:	720-90736-F-14-A				
Client ID:	DUP-48				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 18:26:14	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 20:41:47	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 20:41:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		556389	153.6	
$ 127 n-Octacosane	7.067	7.070	-0.003	505682	137.5	
A 135 C24-C36	7.510	(5.878-9.142)		363330	100.3	

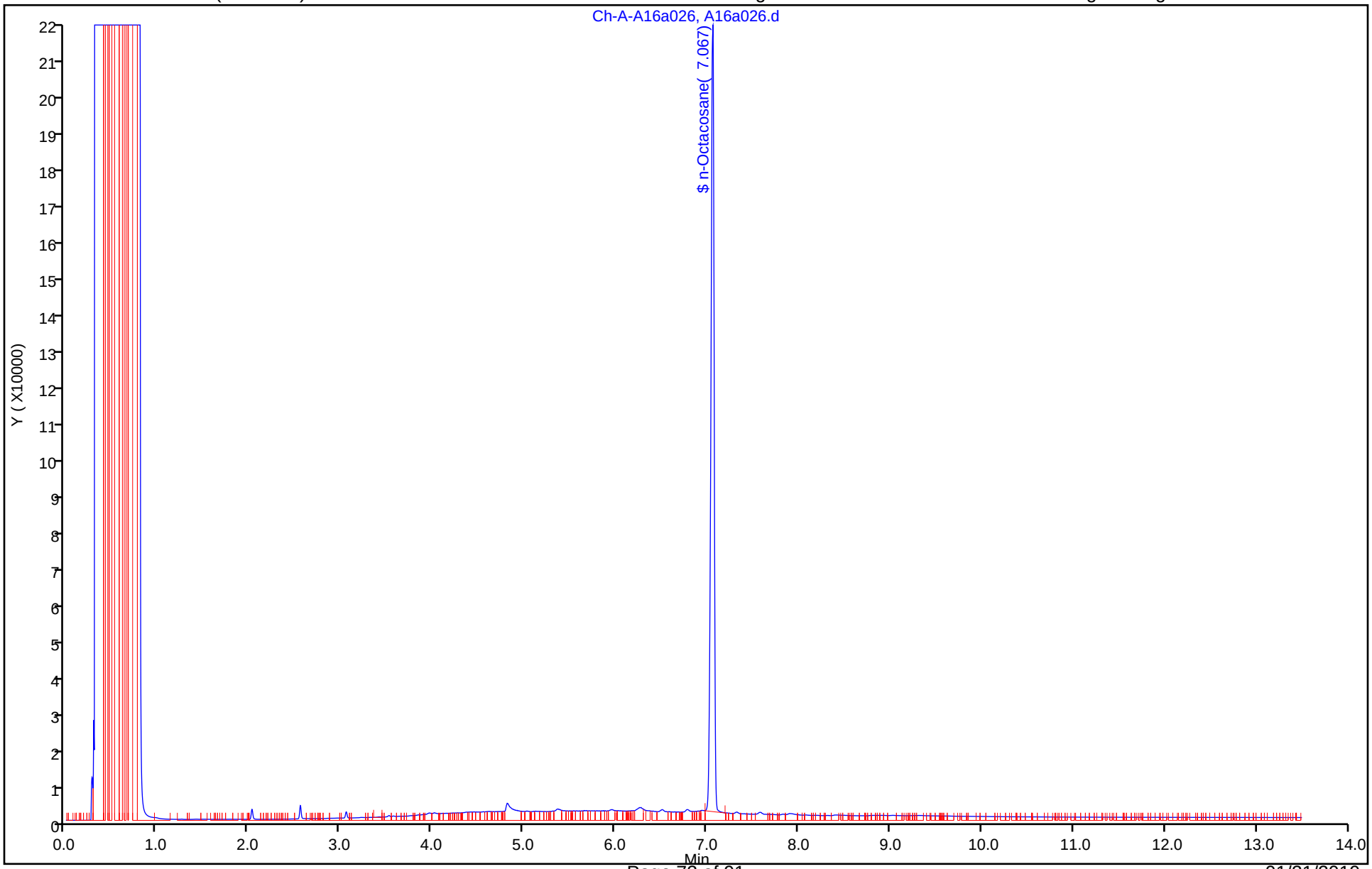
Report Date: 16-Jan-2019 20:41:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a026.d

Injection Date:	16-Jan-2019 18:26:14	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-F-14-A	Lab Sample ID:	440-90736-14	Worklist Smp#:	26
Client ID:	DUP-48				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a026.d				
Lims ID:	720-90736-F-14-A				
Client ID:	DUP-48				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 18:26:14	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 20:41:47	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 20:41:47

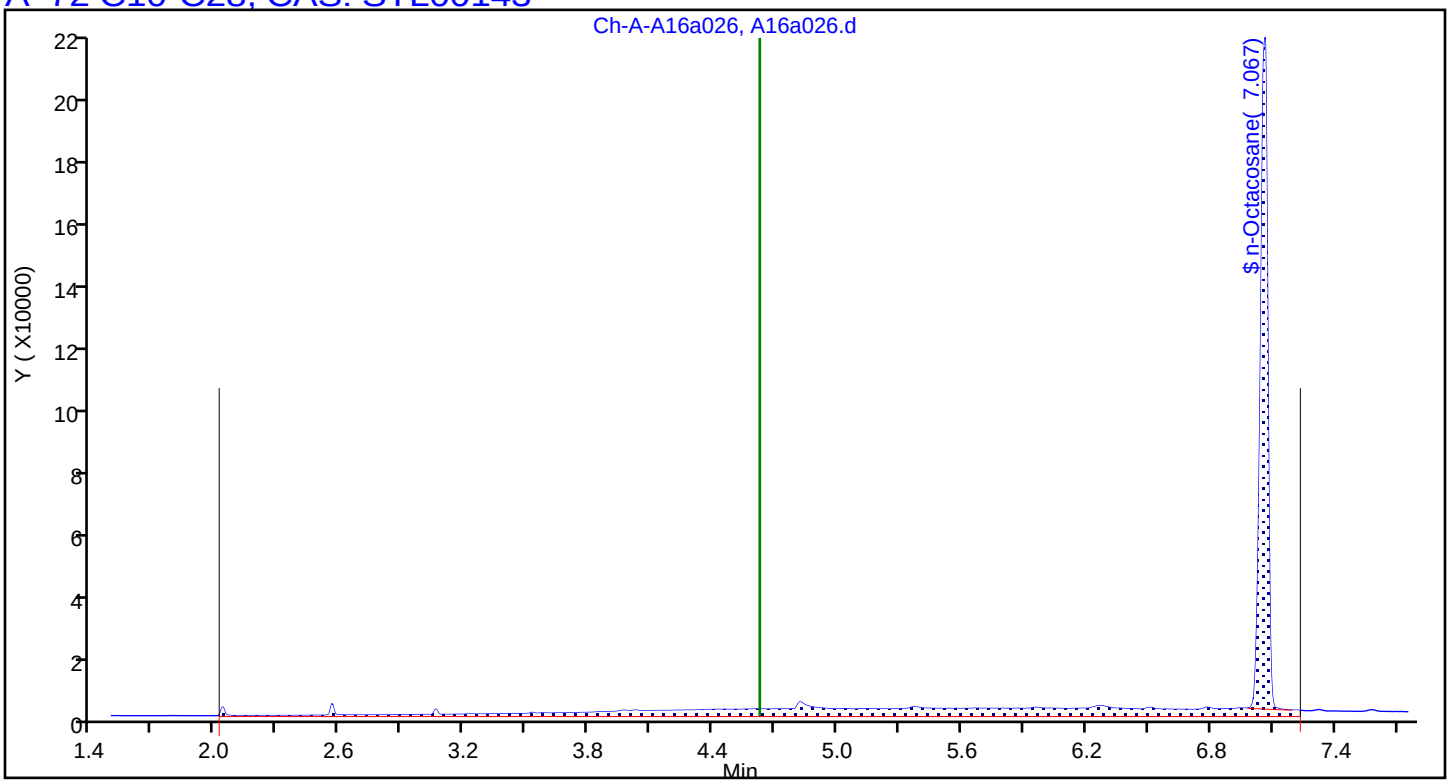
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	137.5	68.73
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 20:41:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a026.d				
Injection Date:	16-Jan-2019 18:26:14	Instrument ID:	GC70A		
Lims ID:	720-90736-F-14-A	Lab Sample ID:	440-90736-14		
Client ID:	DUP-48				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



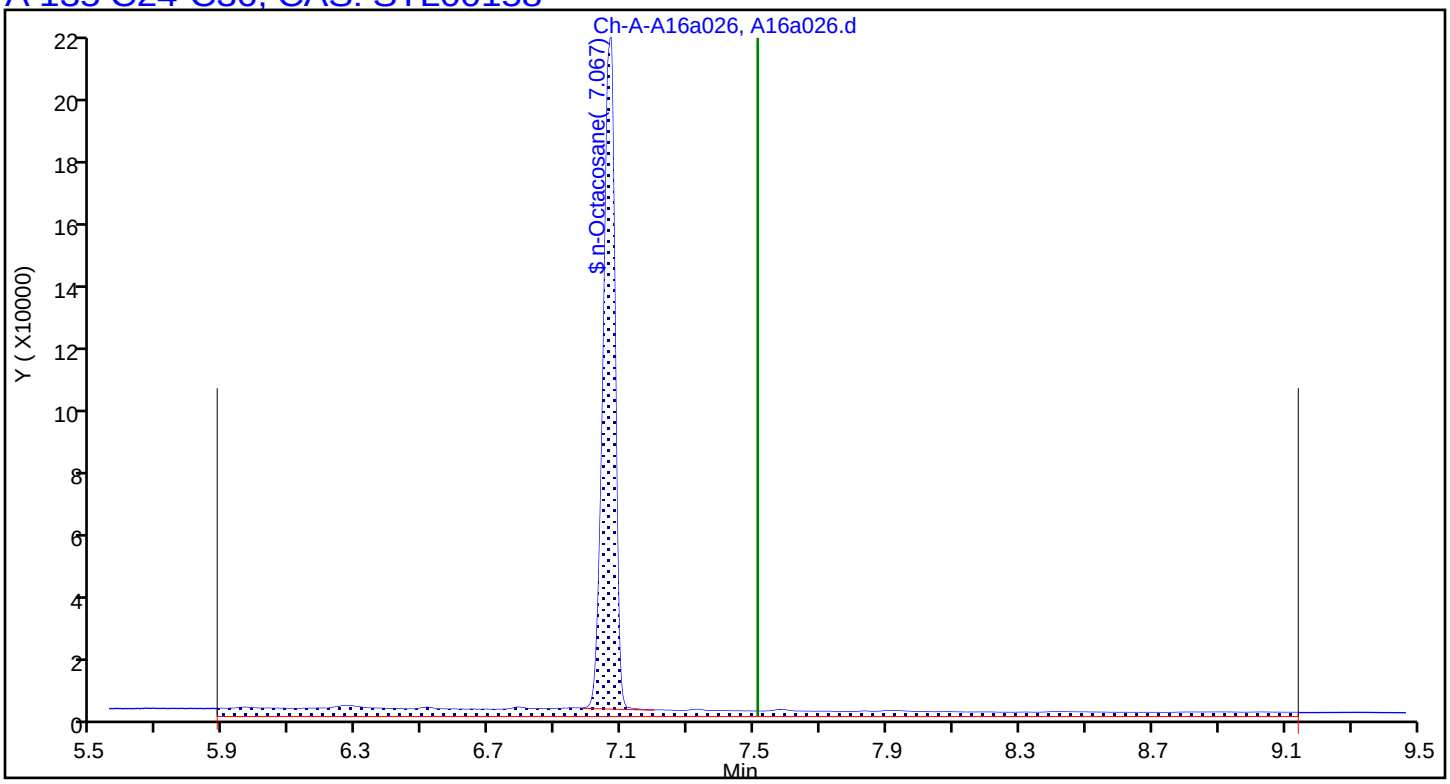
Report Date: 16-Jan-2019 20:41:48 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a026.d

Injection Date:	16-Jan-2019 18:26:14	Instrument ID:	GC70A		
Lims ID:	720-90736-F-14-A	Lab Sample ID:	440-90736-14		
Client ID:	DUP-48				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a027.d				
Lims ID:	720-90736-E-15-A				
Client ID:	DUP-50				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 18:47:44	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 20:42:10	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 20:42:10		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		545819	150.7	
$ 127 n-Octacosane	7.065	7.070	-0.005	565791	153.8	
A 135 C24-C36	7.510	(5.878-9.142)		383087	105.8	

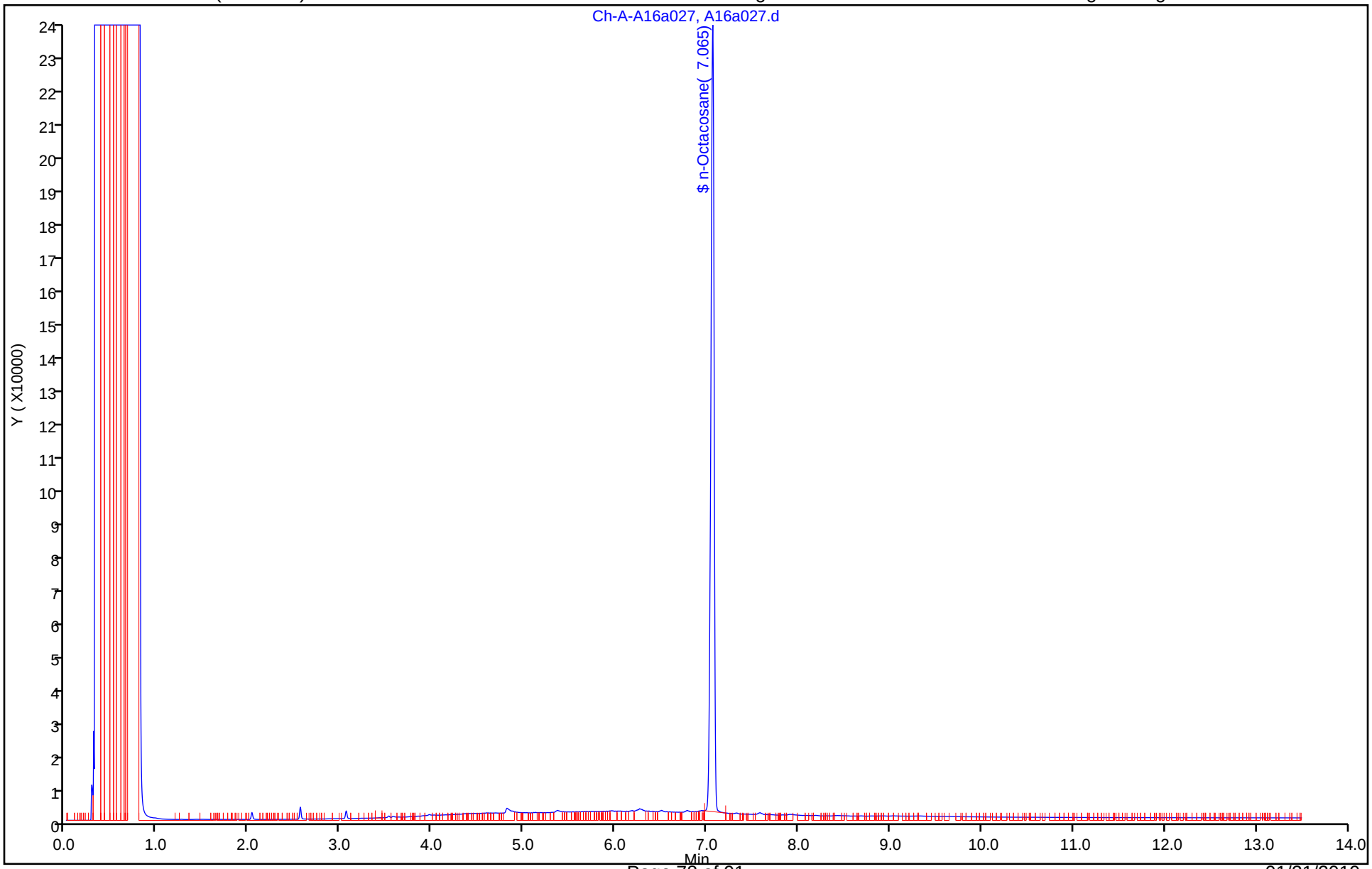
Report Date: 16-Jan-2019 20:42:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a027.d

Injection Date:	16-Jan-2019 18:47:44	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-E-15-A	Lab Sample ID:	440-90736-15	Worklist Smp#:	27
Client ID:	DUP-50				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a027.d				
Lims ID:	720-90736-E-15-A				
Client ID:	DUP-50				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 18:47:44	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 20:42:10	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 20:42:10

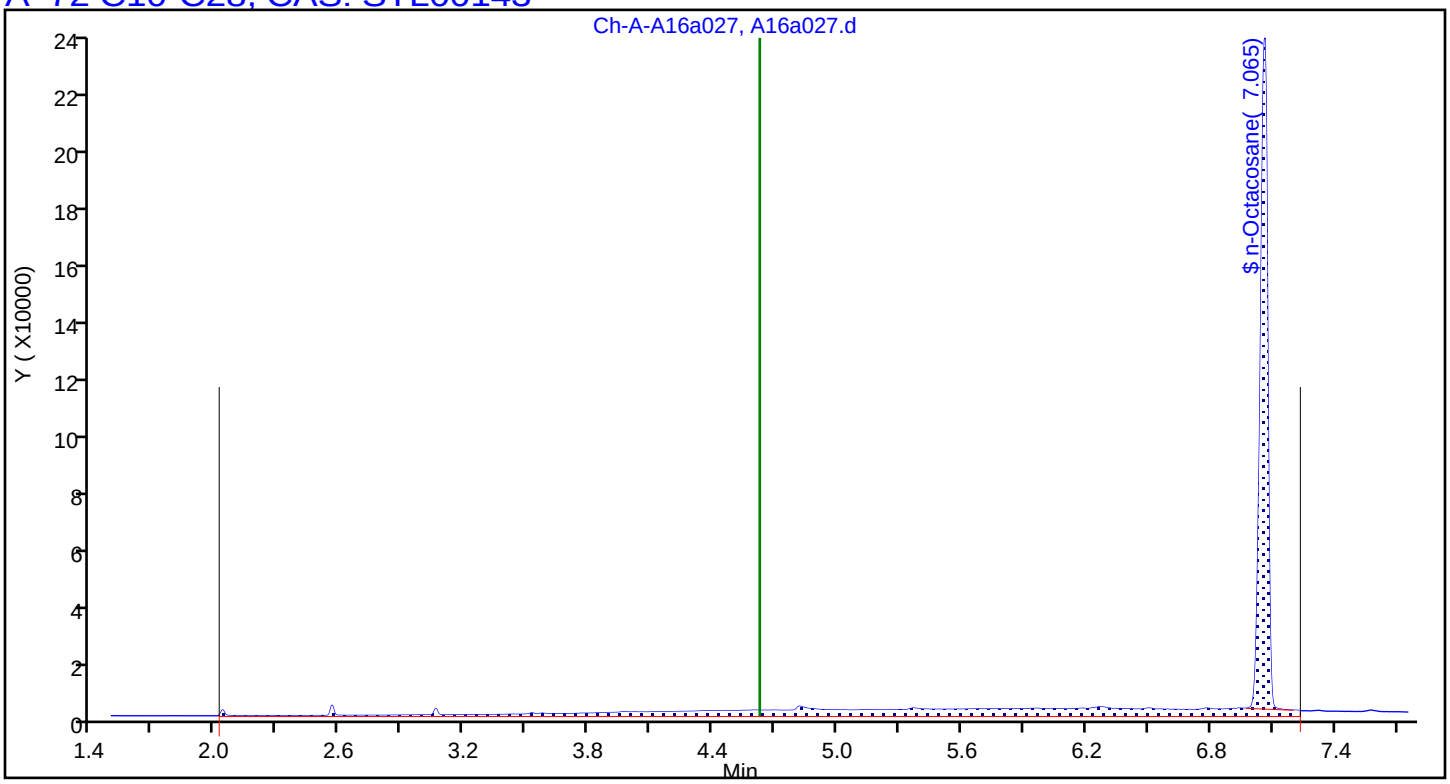
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	153.8	76.90
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 20:42:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a027.d				
Injection Date:	16-Jan-2019 18:47:44	Instrument ID:	GC70A		
Lims ID:	720-90736-E-15-A	Lab Sample ID:	440-90736-15		
Client ID:	DUP-50				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



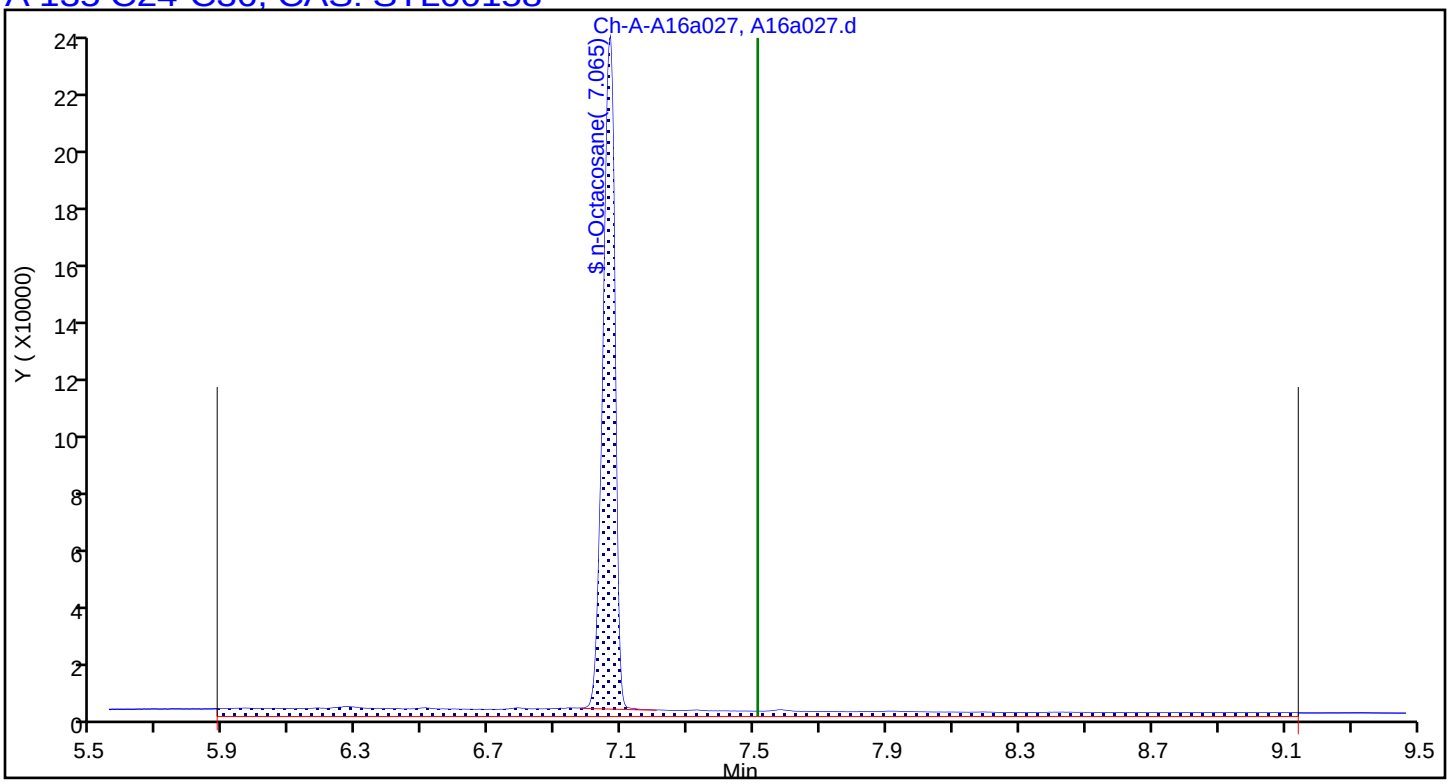
Report Date: 16-Jan-2019 20:42:11 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a027.d

Injection Date:	16-Jan-2019 18:47:44	Instrument ID:	GC70A		
Lims ID:	720-90736-E-15-A	Lab Sample ID:	440-90736-15		
Client ID:	DUP-50				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a028.d				
Lims ID:	720-90736-F-16-A				
Client ID:	DUP-65				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 19:09:10	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 20:42:29	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	16-Jan-2019 20:42:29		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.626	(2.015-7.237)		538948	148.8	
$ 127 n-Octacosane	7.063	7.070	-0.007	477318	129.7	
A 135 C24-C36	7.510	(5.878-9.142)		424759	117.3	

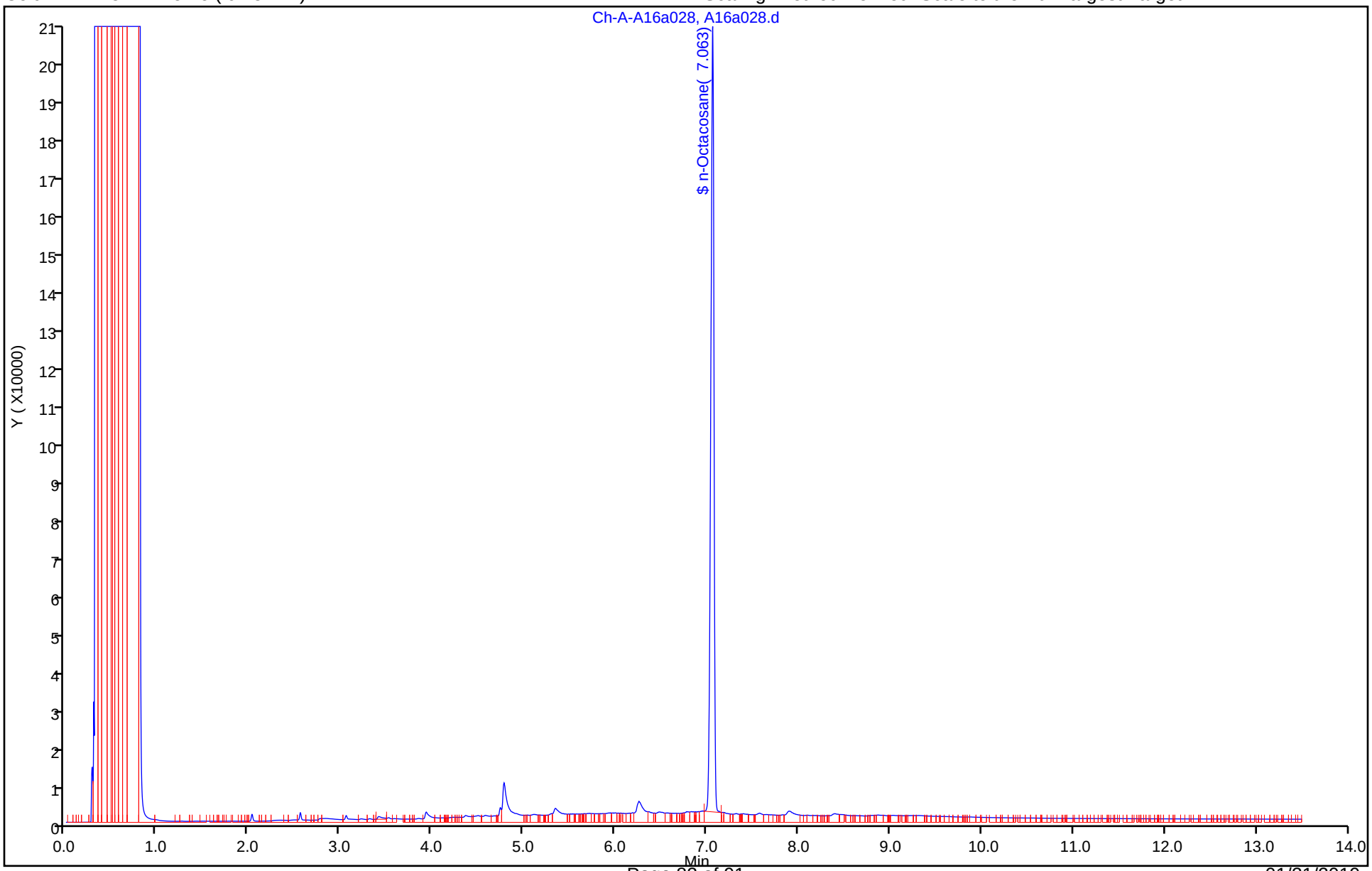
Report Date: 16-Jan-2019 20:42:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a028.d

Injection Date:	16-Jan-2019 19:09:10	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90736-F-16-A	Lab Sample ID:	440-90736-16	Worklist Smp#:	28
Client ID:	DUP-65				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a028.d				
Lims ID:	720-90736-F-16-A				
Client ID:	DUP-65				
Sample Type:	Client				
Inject. Date:	16-Jan-2019 19:09:10	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	16-Jan-2019 20:42:29	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 16-Jan-2019 20:42:29

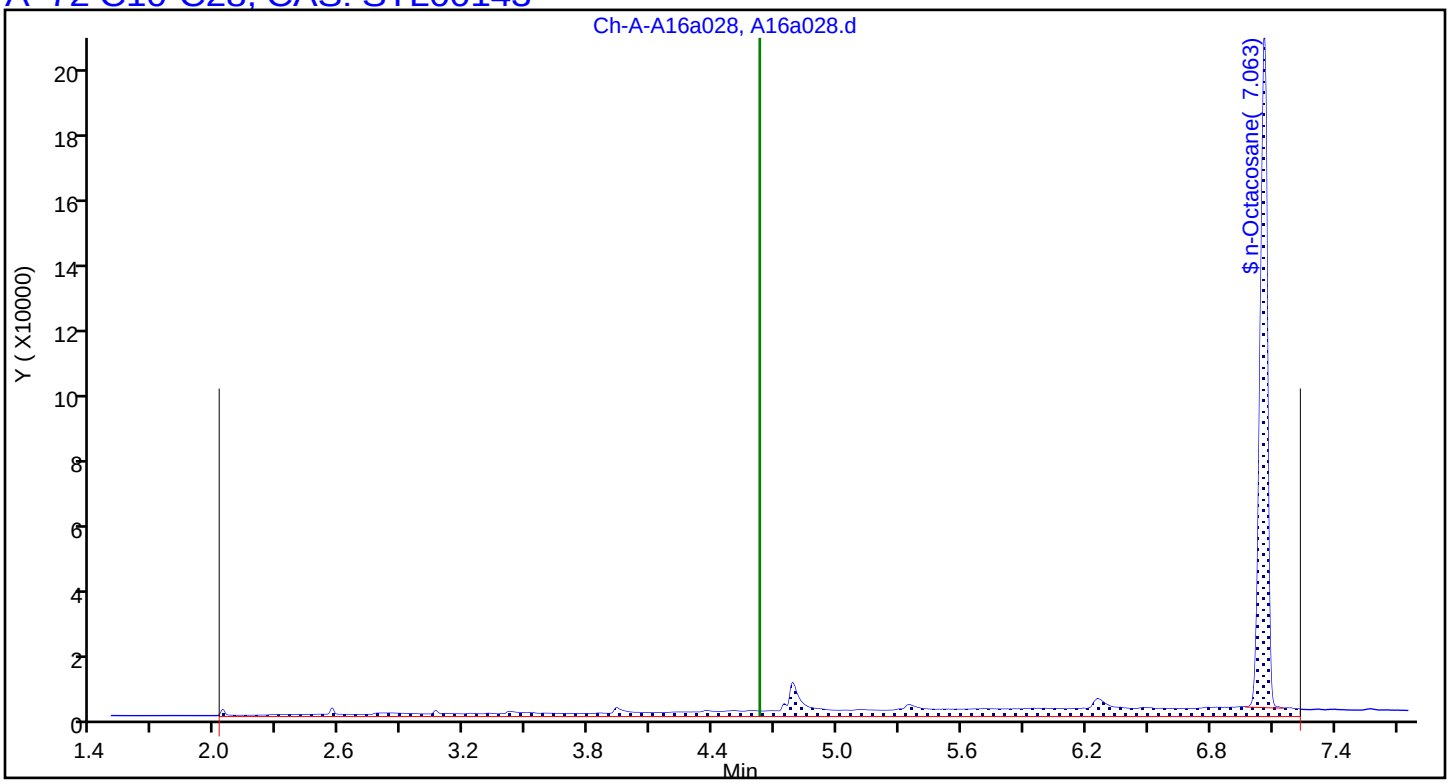
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	129.7	64.87
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 16-Jan-2019 20:42:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a028.d				
Injection Date:	16-Jan-2019 19:09:10	Instrument ID:	GC70A		
Lims ID:	720-90736-F-16-A	Lab Sample ID:	440-90736-16		
Client ID:	DUP-65				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

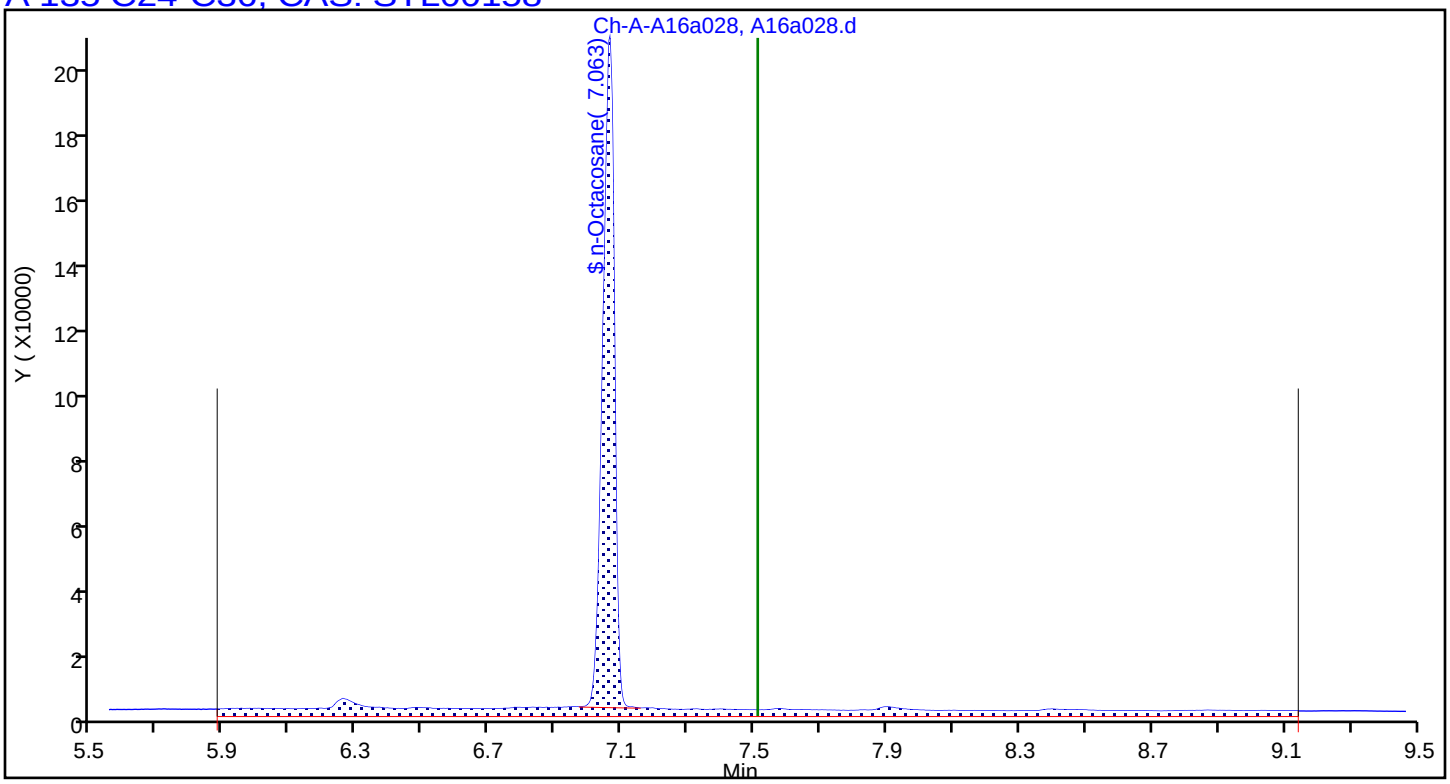


Report Date: 16-Jan-2019 20:42:29 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190116-114274.b\A16a028.d				
Injection Date:	16-Jan-2019 19:09:10	Instrument ID:	GC70A		
Lims ID:	720-90736-F-16-A	Lab Sample ID:	440-90736-16		
Client ID:	DUP-65				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Chain of Custody Record

720-90736

187784

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/11/19	COC No 187784
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90736 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-Y7W	1/11/19	720	G	GW	3	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-AA7W		735											
3	DG-AC7W		755											
4	DG-AE7W		820			12		Y						
5	DG-AU7W		900			3								
6	DG-AS7W		930											
7	DG-AD7W		950											
8	DG-AM7W		1005											
9	DG-AK7W		1030											
10	DG-AJ7W		1055			12		Y						
11	DG-AD9W		1130			3								
12	DG-AR9W		1210			3								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.8, 1.7, 3.0, 2.1, 3.7 °C
2.2, 0.9, 3.0, 1.7, 3.3

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Geosyntec		1/11/19 1300		TA-PLS	1/11/19 13°C
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
TAPLS		1/11/19 1500			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	1/11/19 1500

1/11/19
3.8/1.7/3.0/2.1/3.7
2.2/0.9/1.7/3.3 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600 3002

720-90736

Chain of Custody Record

TestAmerica

187784

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/11/19	COC No 187784
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
13	DUP-47	1/11/19	—	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
14	DUP-48													
15	DUP-50													
16	DUP-65													
17	FB-1.11.19-W					2								
18	TB-1.11.19													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd _____ Corr'd _____		Therm ID No. _____
Relinquished by	Company Geosyntec	Date/Time 1/11/19 1300	Received by	Company TA-PLS	Date/Time 1/11/19 13°C
Relinquished by	Company TA-PLS	Date/Time 1/11/19 1500	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/11/19 1500

1/11/19 3-8|1-7|3|2-1|3-7|3-2
9+3|1-7|3-3 C

01/17/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No: 720-40787.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90736-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Bnsbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-Y7W (720-90736-1)	1/11/19	07:20 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AA7W (720-90736-2)	1/11/19	07.35 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AC7W (720-90736-3)	1/11/19	07:55 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AE7W (720-90736-4)	1/11/19	08:20 Pacific		Water			X	X			4	check for 2 phases
DG-AE7W (720-90736-4MS)	1/11/19	08:20 Pacific	MS	Water			X	X			4	check for 2 phases
DG-AE7W (720-90736-4MSD)	1/11/19	08:20 Pacific	MSD	Water			X	X			2	check for 2 phases
DG-AU7W (720-90736-5)	1/11/19	09.00 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AS7W (720-90736-6)	1/11/19	09:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AO7W (720-90736-7)	1/11/19	09:50 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/11/19 1050	Company: TAPS	Received by	Date/Time.	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time: 1/15/19 1000	Company: TA IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.1/3.5 IR89 2-1/25 1.4/1.8 4.0/4.4

Ver: 09/20/2016

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01/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40787.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90736-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AM7W (720-90736-8)	1/11/19	10:05 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AK7W (720-90736-9)	1/11/19	10:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AI7W (720-90736-10)	1/11/19	10:55 Pacific		Water			X	X			4	check for 2 phases
DG-AI7W (720-90736-10MS)	1/11/19	10:55 Pacific	MS	Water			X	X			4	check for 2 phases
DG-AI7W (720-90736-10MSD)	1/11/19	10:55 Pacific	MSD	Water			X	X			2	check for 2 phases
DG-AD9W (720-90736-11)	1/11/19	11:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AR9W (720-90736-12)	1/11/19	12:10 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-47 (720-90736-13)	1/11/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-48 (720-90736-14)	1/11/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
1		1/14/19 1050	TAPLS			
2	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/15/19 1000	Company TA IRV

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver 09/20/2016

01/31/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No 720-40787.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90736-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/23/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DUP-50 (720-90736-15)	1/11/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-65 (720-90736-16)	1/11/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-1.11.19-W (720-90736-17)	1/11/19	Pacific		Water			X	X			2	check for 2 phases
TB-1.11.19 (720-90736-18)	1/11/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	1/14/19 1050	TAL-SF			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	1/15/19 1000	TA IRV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

01/31/2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90792-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
1/30/2019 5:19 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
01/30/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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GC Semi VOA 5

Method 8015B - DRO 5

Method 8015B - DRO Sample Data 5

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Client Chain of Custody 43

Job Narrative
720-90792-1

Comments
No additional comments.

Receipt
The samples were received on 1/15/2019 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0º C, 4.2º C and 4.6º C.

Receipt Exceptions
One amber for the following sample was received empty: DUP-74 (720-90792-7).

The 1 liter ambers for the following samples were filled below the shoulder of the bottle:
All three ambers for samples DG-Q11W (720-90792-1), DG-S11W (720-90792-2), DG-V13W (720-90792-4), DG-Z9W (720-90792-6)
Four of six ambers for sample DG-U11W (720-90792-3)
Two of three ambers for sample DG-T13W (720-90792-5)

The containers for sample DG-U11W (720-90792-3) were labeled with an ID of DG-V11W. The ID listed on the COC was used in the report.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the nature of their sample matrix: DG-S11W (720-90792-2) and DG-V13W (720-90792-4). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The perylene-d12 internal standard response was below acceptance limits for the following sample: DG-S11W (720-90792-2). The sample shows evidence of matrix interference. The affected compounds are marked with an asterisk (*). If the matrix effect is isolated to perylene-d12, then the results for the associated compounds are biased high.

Method 8270C SIM: The perylene-d12 and acenaphthene-d10 internal standard responses were below acceptance limits for the following sample: DG-V13W (720-90792-4). The sample shows evidence of matrix interference. The affected compounds are marked with an asterisk (*). If the matrix effect is isolated to perylene-d12 and acenaphthene-d10, then the results for the associated compounds are biased high.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-523430 and analytical batch 440-523975 were outside control limits for Phenanthrene. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The surrogate recovery for the following 8015-DRO laboratory control sample (LCS) was outside control limits due to a possible spiking error: (LCS 440-523314/2-A). The surrogate recovery for the method blank and samples were within the control limits; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 3005A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: DG-V13W (720-90792-4). The sample was preserved to the appropriate pH in the laboratory. 1 ml of Nitric was added to sample at 849 1/16/19. Reference batch is 258613

Method 7470A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 7: DG-V13W (720-90792-4). The sample was preserved to the appropriate pH in the laboratory. 1ml of HNO3 was added at 849 1/16/19. ref: 258613

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 8015B preparation/analysis: DG-Q11W (720-90792-1), DG-S11W (720-90792-2), DG-U11W (720-90792-3), DG-V13W (720-90792-4), DG-Z9W (720-90792-6) and DUP-74 (720-90792-7).

Method(s) 3520C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 8270C SIM preparation/analysis: DG-S11W (720-90792-2), DG-U11W (720-90792-3[MS]) and DG-T13W (720-90792-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a028.d				
Lims ID:	720-90792-E-1-A				
Client ID:	DG-Q11W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 18:00:58	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:28:16	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: doanm		Date:	21-Jan-2019 08:28:16		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.621	(2.008-7.233)		1067500	294.7	
$ 127 n-Octacosane	7.085	7.065	0.020	543178	147.6	
A 135 C24-C36	7.498	(5.858-9.137)		1314497	362.9	

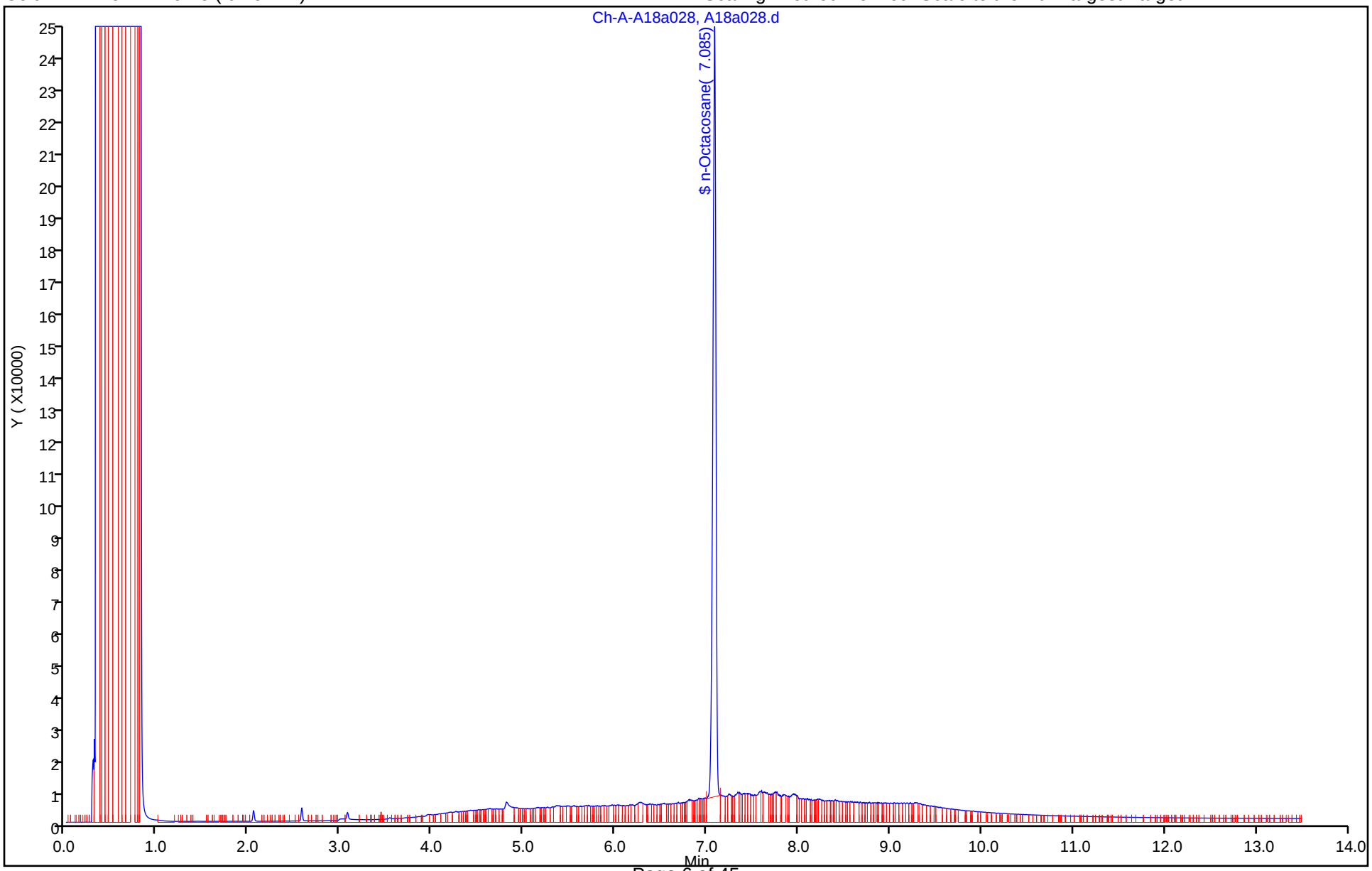
Report Date: 21-Jan-2019 08:28:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a028.d

Injection Date:	18-Jan-2019 18:00:58	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90792-E-1-A	Lab Sample ID:	440-90792-1	Worklist Smp#:	28
Client ID:	DG-Q11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a028.d				
Lims ID:	720-90792-E-1-A				
Client ID:	DG-Q11W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 18:00:58	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:28:16	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: doanm Date: 21-Jan-2019 08:28:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	147.6	73.82
$ 178 n-Triacontane-d62	0.0	0	0.00

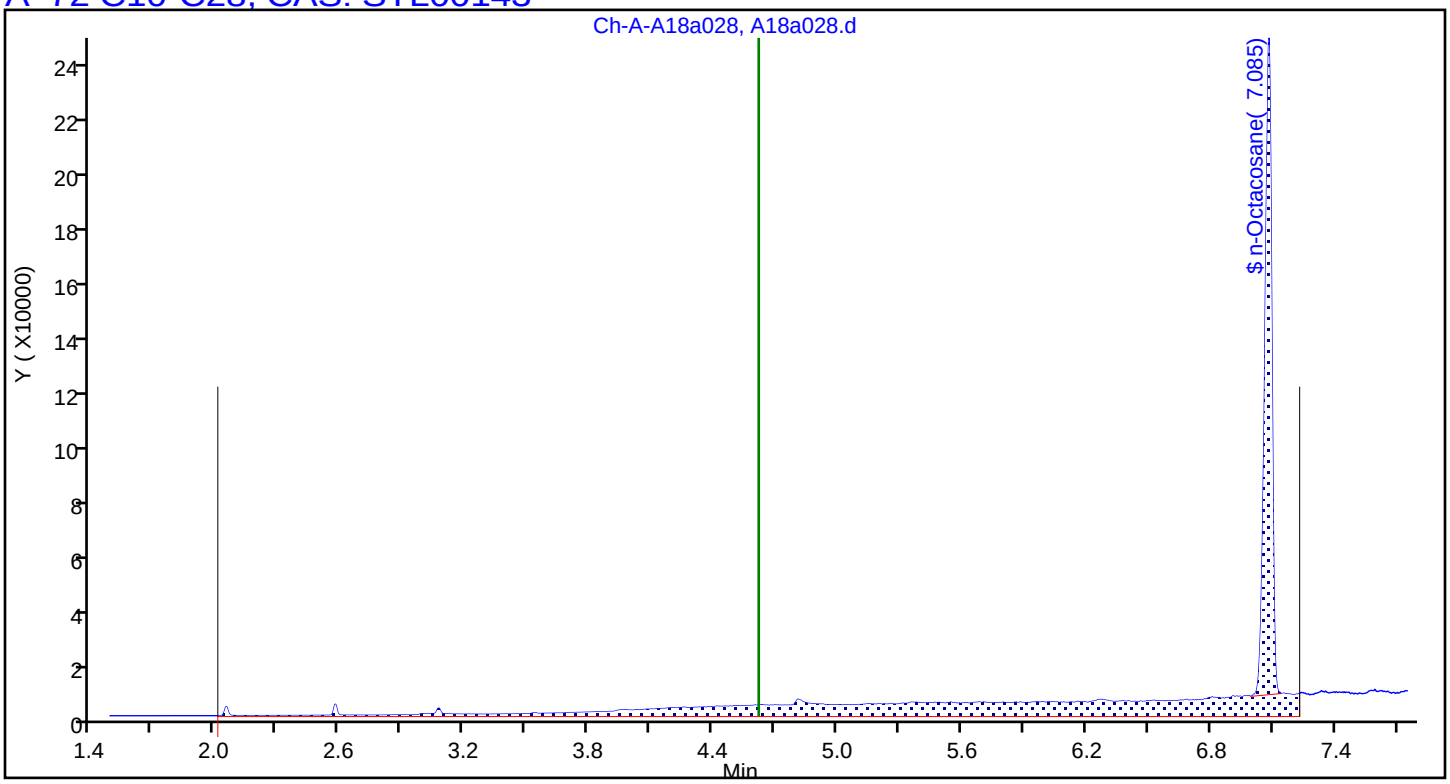
Report Date: 21-Jan-2019 08:28:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a028.d

Injection Date:	18-Jan-2019 18:00:58	Instrument ID:	GC70A		
Lims ID:	720-90792-E-1-A	Lab Sample ID:	440-90792-1		
Client ID:	DG-Q11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

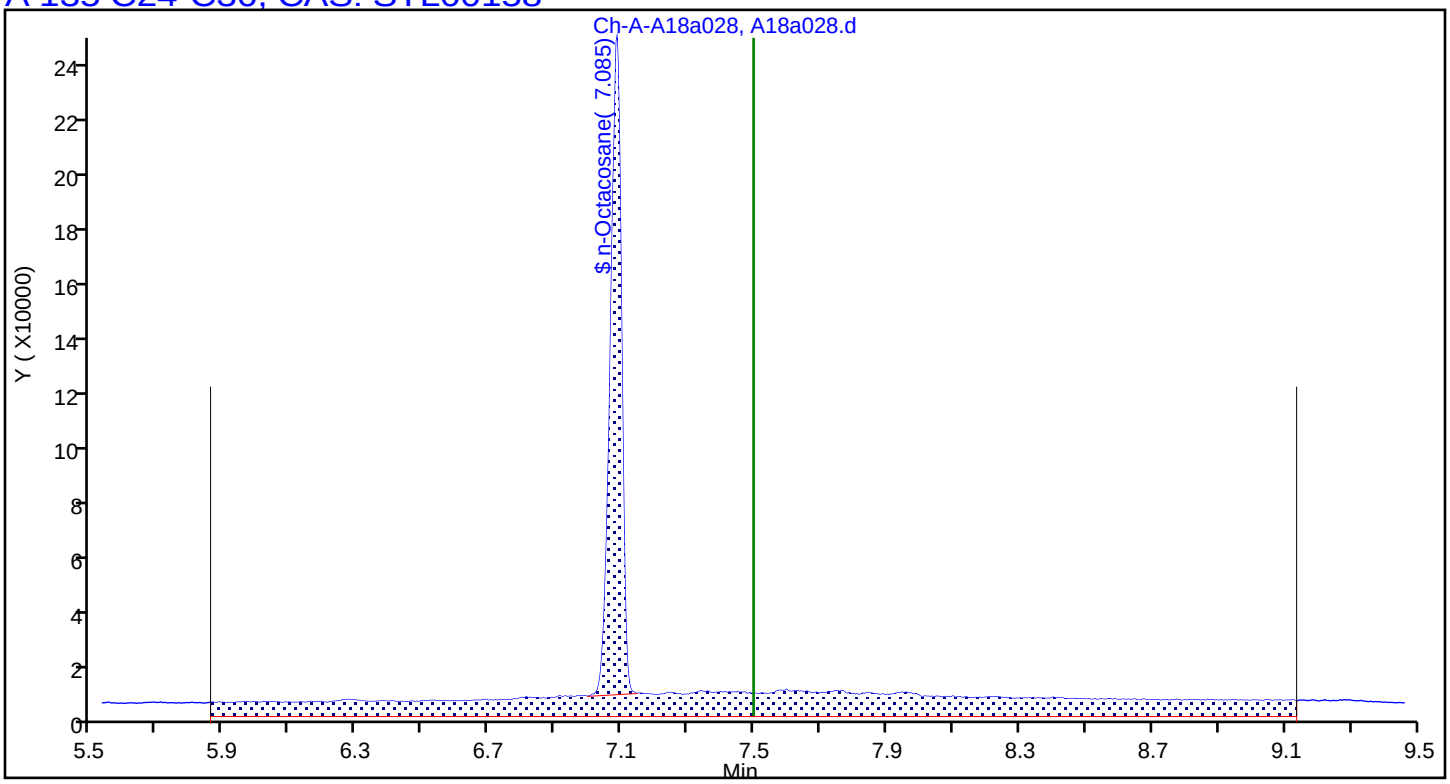


Report Date: 21-Jan-2019 08:28:17 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a028.d				
Injection Date:	18-Jan-2019 18:00:58	Instrument ID:	GC70A		
Lims ID:	720-90792-E-1-A	Lab Sample ID:	440-90792-1		
Client ID:	DG-Q11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a029.d				
Lims ID:	720-90792-E-2-A				
Client ID:	DG-S11W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 18:22:28	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:28:30	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: doanm		Date:	21-Jan-2019 08:28:30		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.621	(2.008-7.233)		1767716	488.0	
$ 127 n-Octacosane	7.087	7.065	0.022	575134	156.3	
A 135 C24-C36	7.498	(5.858-9.137)		2206510	609.2	

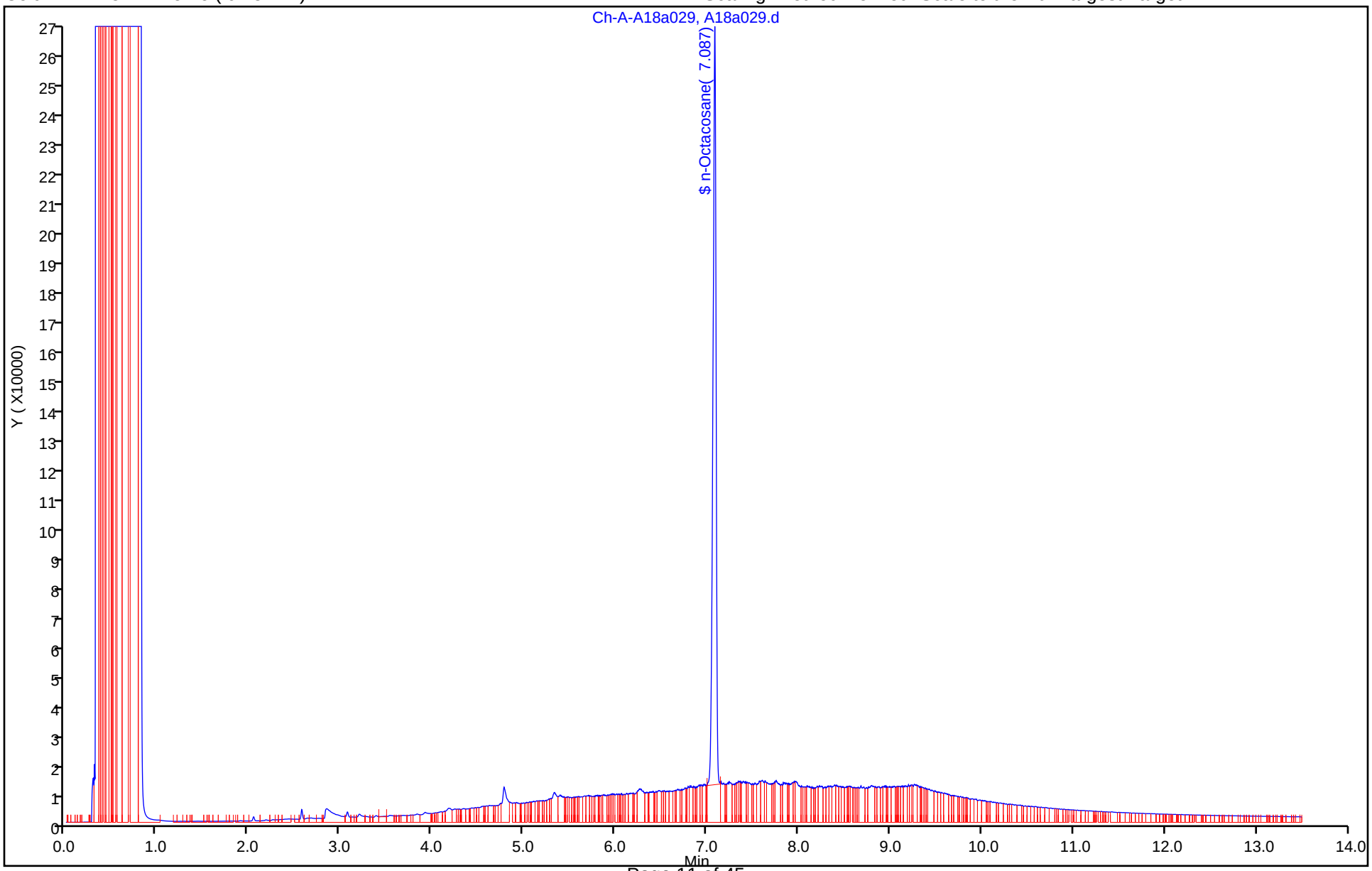
Report Date: 21-Jan-2019 08:28:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a029.d

Injection Date:	18-Jan-2019 18:22:28	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90792-E-2-A	Lab Sample ID:	440-90792-2	Worklist Smp#:	29
Client ID:	DG-S11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a029.d				
Lims ID:	720-90792-E-2-A				
Client ID:	DG-S11W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 18:22:28	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:28:30	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: doanm Date: 21-Jan-2019 08:28:30

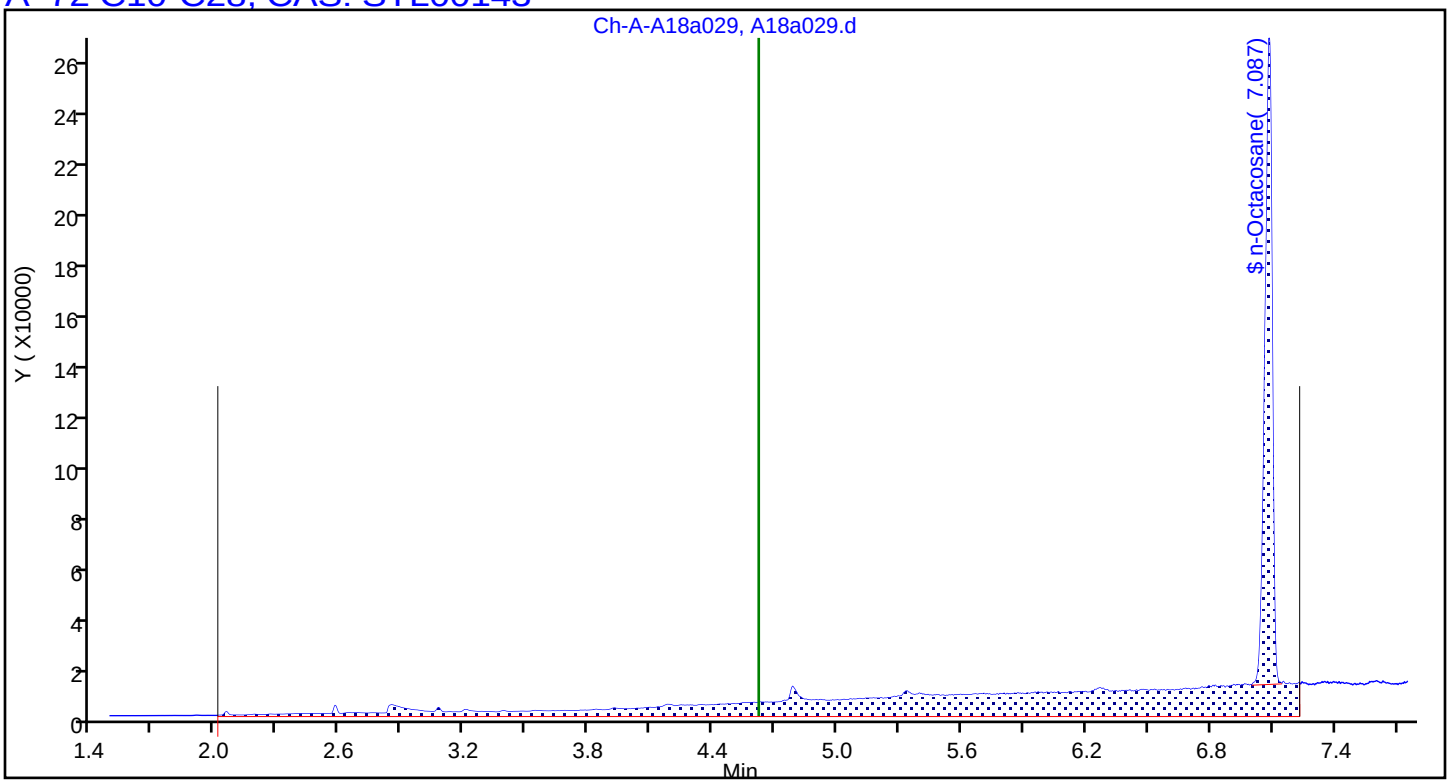
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	156.3	78.17
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 21-Jan-2019 08:28:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a029.d				
Injection Date:	18-Jan-2019 18:22:28	Instrument ID:	GC70A		
Lims ID:	720-90792-E-2-A	Lab Sample ID:	440-90792-2		
Client ID:	DG-S11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

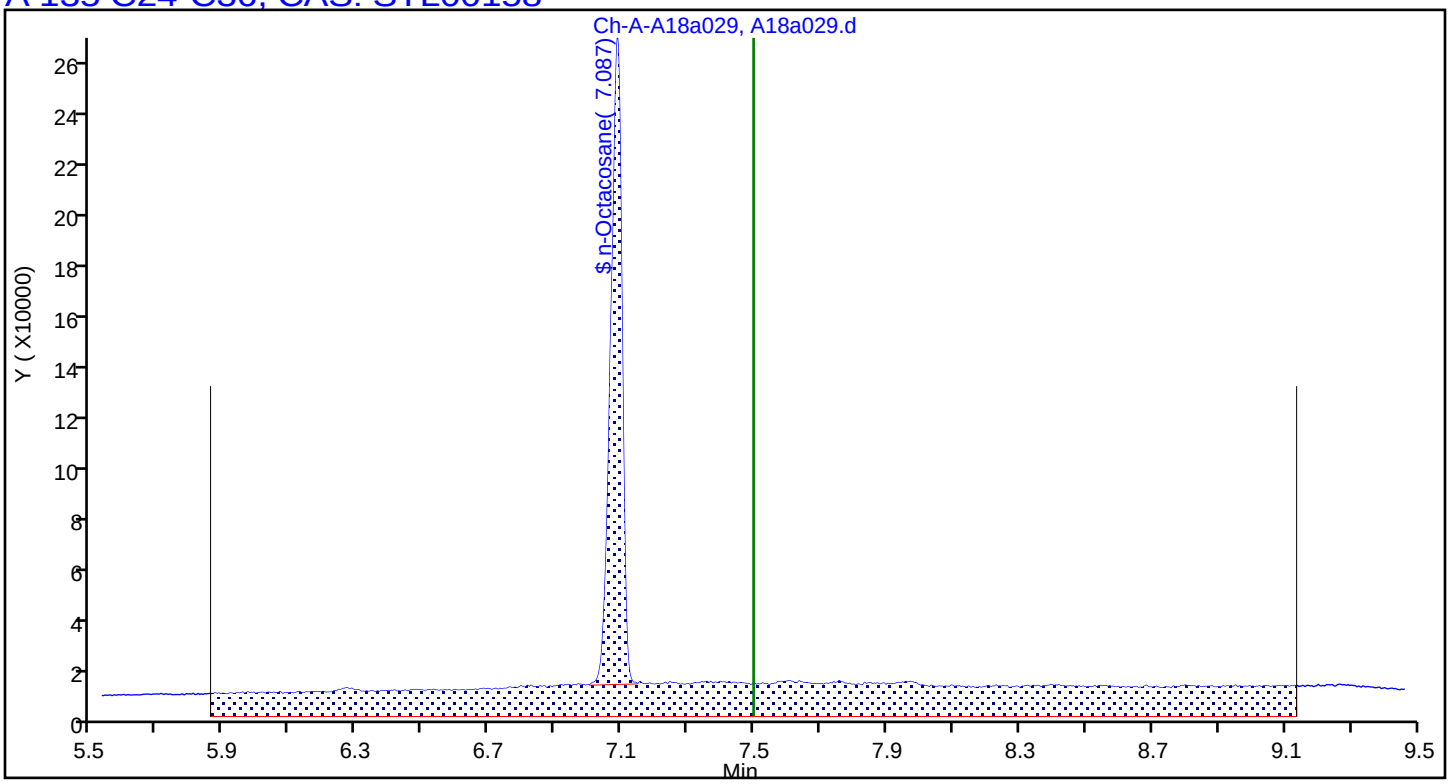


Report Date: 21-Jan-2019 08:28:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a029.d				
Injection Date:	18-Jan-2019 18:22:28	Instrument ID:	GC70A		
Lims ID:	720-90792-E-2-A	Lab Sample ID:	440-90792-2		
Client ID:	DG-S11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a025.d
Lims ID: 720-90792-E-3-B
Client ID: DG-U11W
Sample Type: Client
Inject. Date: 18-Jan-2019 16:56:17 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 21-Jan-2019 08:26:43 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0303

First Level Reviewer: doanm Date: 21-Jan-2019 08:26:43

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 197 C7 Range	0.644	(0.197-1.092)		26840681	7410.2	
A 3 C8 Range	1.313	(1.092-1.533)		7936	2.19	
A 4 C8-C9	1.550	(1.092-2.008)		17580	4.85	
A 7 C8-C10	1.716	(1.092-2.340)		26605	7.35	
A 8 C9 Range	1.771	(1.533-2.008)		9644	2.66	
A 22 C7-C14	1.842	(0.215-3.468)		26908427	7428.9	
A 9 C8-C11	1.882	(1.092-2.672)		38291	10.6	
A 10 C9-C10	1.928	(1.533-2.323)		18332	5.06	
A 12 C10 Range	2.174	(2.008-2.340)		9024	2.49	
A 13 C9-C12	2.248	(1.533-2.962)		40728	11.2	
A 16 C10-C11	2.340	(2.008-2.672)		20710	5.72	
A 17 Mineral Spirits	2.379	(1.533-3.225)		52994	14.6	
A 196 C9-C13	2.379	(1.533-3.225)		24371	6.73	
A 18 Stoddard Solvent	2.379	(1.533-3.225)		52994	14.6	
A 15 C8-C15	2.398	(1.092-3.703)		84053	23.2	
A 20 C10-C12	2.485	(2.008-2.962)		31083	8.58	
A 21 C8-C16	2.493	(1.092-3.895)		97806	27.0	
A 23 C11 Range	2.506	(2.340-2.672)		11685	3.23	
A 24 C11-C12	2.651	(2.340-2.962)		22058	6.09	
A 30 C9-C16	2.714	(1.533-3.895)		89870	24.8	
A 26 Jet Fuel JP-8	2.799	(1.092-4.507)		109268	0	
A 27 C8-C18 DRO	2.799	(1.092-4.507)		164591	45.4	
A 29 C8-C18	2.799	(1.092-4.507)		164591	41.3	
A 192 C12 Range	2.817	(2.672-2.962)		10372	2.86	
A 31 C9 - C17	2.827	(1.533-4.120)		111972	30.9	
A 32 C12-C13	2.948	(2.672-3.225)		22638	6.25	
34 C13	3.077	3.002	0.075	10419	2.88	
A 33 C9 - C18	3.020	(1.533-4.507)		156655	43.2	
A 35 C12-C14	3.070	(2.672-3.468)		32212	8.89	
A 194 C13 Range	3.093	(2.962-3.225)		12265	3.39	
A 193 C14 Range	3.208	(3.172-3.243)		2604	0.7189	
A 36 C13-C14	3.215	(2.962-3.468)		21839	6.03	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 199 C10-C18	3.258	(2.008-4.507)		147011	NC	
39 n-Tetradecane	3.422	3.280	0.142	138	0.0381	
A 38 C13-C15	3.333	(2.962-3.703)		35389	9.77	
A 37 C8-C22	3.337	(1.092-5.582)		301803	83.3	
A 40 C14-C15	3.464	(3.225-3.703)		23123	6.38	
A 44 C14-C16	3.560	(3.225-3.895)		36876	10.2	
A 43 C8-C24	3.618	(1.092-6.145)		365547	100.9	
A 45 C10-C21	3.651	(2.008-5.293)		249421	68.9	
A 46 C15-C16	3.682	(3.468-3.895)		27303	7.54	
A 47 C10-C22	3.795	(2.008-5.582)		284223	78.5	
A 48 C9-C24	3.839	(1.533-6.145)		357611	98.7	
A 51 C16-C17	3.912	(3.703-4.120)		35854	9.90	
A 52 C10-C23	3.933	(2.008-5.858)		315974	87.2	
A 53 C11-C22	3.961	(2.340-5.582)		275198	76.0	
A 54 C12-C21	3.983	(2.672-5.293)		228711	63.1	
A 55 C9-C25	3.987	(1.533-6.440)		397599	109.8	
A 56 C10-C24	4.077	(2.008-6.145)		347966	96.1	
A 57 C12-C22	4.127	(2.672-5.582)		263512	72.8	
A 59 C8-C28	4.163	(1.092-7.233)		500514	138.2	
A 61 C17-C18	4.201	(3.895-4.507)		66785	18.4	
A 63 C10-C25	4.224	(2.008-6.440)		387954	107.1	
A 62 C15-C20	4.247	(3.468-5.025)		163811	45.2	
A 14 C12-C23	4.265	(2.672-5.858)		295263	81.5	
A 64 C13-C22	4.272	(2.962-5.582)		253139	69.9	
A 67 C12-C24	4.408	(2.672-6.145)		327256	90.3	
A 66 C13-C23	4.410	(2.962-5.858)		284890	78.7	
A 69 C8-C30	4.418	(1.092-7.743)		553393	152.8	
A 68 C18-C19	4.445	(4.120-4.770)		81862	22.6	
71 C19	4.635	4.573	0.062	4999	1.38	
A 60 Diesel	4.621	(2.008-7.233)		482933	133.3	
A 72 C10-C28	4.621	(2.008-7.233)		482933	133.3	
A 70 C16-C22	4.643	(3.703-5.582)		217749	60.1	
A 75 C7-C36	4.667	(0.197-9.137)		27507311	7594.2	
A 73 C8-C32	4.668	(1.092-8.243)		596935	164.8	
A 74 C19-C20	4.766	(4.507-5.025)		69722	19.2	
A 77 C10-C30	4.876	(2.008-7.743)		535812	147.9	
A 78 C8-C34	4.889	(1.092-8.687)		631204	174.3	
A 195 C13-C27	4.968	(2.962-6.973)		423207	116.8	
A 79 C20-C21	5.032	(4.770-5.293)		65231	18.0	
A 81 C13-C28	5.098	(2.962-7.233)		451850	124.7	
A 80 C8-C36	5.114	(1.092-9.137)		666629	184.0	
A 83 C10-C32	5.126	(2.008-8.243)		579355	159.9	
A 85 C21-C22	5.303	(5.025-5.582)		67489	18.6	
A 84 C20-C23	5.314	(4.770-5.858)		131783	36.4	
A 86 C13-C30	5.353	(2.962-7.743)		504728	139.3	
A 89 C10-C36	5.573	(2.008-9.137)		649048	179.2	
A 88 C22-C23	5.576	(5.293-5.858)		66552	18.4	
A 92 C8-C40	5.593	(1.092-10.095)		742220	204.9	
A 90 C13-C32	5.603	(2.962-8.243)		548271	151.4	
A 198 C18-C28	5.677	(4.120-7.233)		380605	105.1	
A 91 C12-C34	5.679	(2.672-8.687)		592912	163.7	
A 96 C9-C40	5.814	(1.533-10.095)		734284	202.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 94 C23-C24	5.863	(5.582-6.145)		63743	17.6	
A 95 C18-C30	5.932	(4.120-7.743)		433484	119.7	
A 99 C13-C36	6.049	(2.962-9.137)		617965	170.6	
A 101 C10-C40	6.052	(2.008-10.095)		724639	200.1	
A 100 C17-C32	6.069	(3.895-8.243)		499129	137.8	
A 98 C24-C25	6.149	(5.858-6.440)		71980	19.9	
102 C25	6.252	6.228	0.024	11258	3.11	
A 103 C21-C30	6.384	(5.025-7.743)		319078	88.1	
A 111 C8-C44	6.401	(1.092-11.710)		850025	234.7	
A 104 C24-C27	6.416	(5.858-6.973)		138316	38.2	
A 105 C16-C36	6.420	(3.703-9.137)		582575	160.8	
A 106 C25-C26	6.426	(6.145-6.707)		73483	20.3	
A 107 C20-C32	6.507	(4.770-8.243)		395164	109.1	
A 109 C17-C36	6.516	(3.895-9.137)		568823	157.0	
A 113 C13-C40	6.528	(2.962-10.095)		693555	191.5	
A 112 C13 - C40	6.528	(2.962-10.095)		693555	191.5	
A 108 C18-C36	6.628	(4.120-9.137)		546720	150.9	
A 114 Hydraulic Fluid	6.628	(4.120-9.137)		546720	150.9	
A 116 C25-C28	6.689	(6.145-7.233)		134967	37.3	
A 115 C26-C27	6.707	(6.440-6.973)		66335	18.3	
A 117 C22-C32	6.768	(5.293-8.243)		329933	91.1	
118 C27	6.808	6.787	0.021	15213	4.20	
A 126 C10-C44	6.859	(2.008-11.710)		832444	229.8	
A 121 C16-C40	6.884	(3.703-10.065)		655988	181.1	
A 120 C23-C32	6.913	(5.582-8.243)		295132	81.5	
A 210 C20-C36	6.953	(4.770-9.137)		464858	128.3	
A 122 C27-C28	6.970	(6.707-7.233)		61484	17.0	
A 123 C24-C32	7.051	(5.858-8.243)		263380	72.7	
$ 127 n-Octacosane	7.083	7.065	0.018	411209	111.8	
A 124 C22-C35	7.091	(5.293-8.888)		379727	104.8	
A 130 C18-C40	7.108	(4.120-10.095)		622311	171.8	
A 125 C23-C34	7.134	(5.582-8.687)		329400	90.9	
A 129 C28-C29	7.207	(6.973-7.440)		50934	14.1	
A 128 C23-C35	7.235	(5.582-8.888)		344926	95.2	
A 133 C19-C40	7.301	(4.507-10.095)		577628	159.5	
132 C29	7.337	7.328	0.009	10066	2.78	
A 139 C13-C44	7.336	(2.962-11.710)		801360	221.2	
A 131 C23-C36	7.359	(5.582-9.137)		364825	100.7	
A 137 C20-C40	7.433	(4.770-10.095)		540449	149.2	
A 136 C28-C31	7.471	(6.973-7.968)		102810	28.4	
A 138 C29-C30	7.488	(7.233-7.743)		52878	14.6	
A 135 C24-C36	7.498	(5.858-9.137)		333074	92.0	
A 140 C25-C36	7.641	(6.145-9.137)		301082	83.1	
A 142 C30-C31	7.704	(7.440-7.968)		51875	14.3	
A 143 C29-C32	7.738	(7.233-8.243)		96421	26.6	
A 144 C17-C44	7.788	(3.895-11.680)		750323	207.1	
145 C31	7.848	7.837	0.011	5982	1.65	
A 146 C23-C40	7.838	(5.582-10.095)		440416	121.6	
A 148 C24-C40	7.977	(5.858-10.095)		408665	112.8	
A 147 C31-C32	7.993	(7.743-8.243)		43542	12.0	
A 200 C28-C36	8.055	(6.973-9.137)		194758	53.8	
A 150 C25-C40	8.120	(6.145-10.095)		376672	104.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
152 C33	8.305	8.320	-0.015	2105	0.5811	
A 153 C32-C35	8.428	(7.968-8.888)		72048	19.9	
A 154 C33-C34	8.465	(8.243-8.687)		34268	9.46	
A 156 C32-C36	8.553	(7.968-9.137)		91947	25.4	
A 161 C23-C44	8.646	(5.582-11.710)		548221	151.4	
A 159 C29-C40	8.649	(7.233-10.065)		239527	66.1	
A 158 C33-C36	8.690	(8.243-9.137)		69693	19.2	
A 162 C24-C44	8.784	(5.858-11.710)		516470	142.6	
A 169 C35-C36	8.912	(8.687-9.137)		35425	9.78	
A 164 C31-C40	8.919	(7.743-10.095)		188826	52.1	
A 166 C33-C40	9.169	(8.243-10.095)		145284	40.1	
A 168 C36-C39	9.358	(8.888-9.827)		75636	20.9	
A 171 C35-C40	9.386	(8.687-10.085)		110291	30.4	
170 C38	9.447	9.430	0.017	6366	1.76	
A 119 C29-C44	9.457	(7.233-11.680)		347615	96.0	
A 172 C36-C40	9.492	(8.888-10.095)		95489	26.4	
A 174 C37-C40	9.616	(9.137-10.095)		75590	20.9	
173 C39	9.683	9.673	0.010	3892	1.07	
A 175 C39-C40	9.818	(9.540-10.095)		42102	11.6	
A 167 C37-C38	9.938	(9.748-10.128)		28189	7.78	
176 C40	9.963	9.967	-0.004	3448	0.9519	
A 134 C33-C44	9.977	(8.243-11.710)		253089	69.9	
A 151 C40-C44	10.768	(9.827-11.710)		127657	35.2	
A 155 C41-C44	10.888	(10.065-11.710)		109982	30.4	
$ 178 n-Triacontane-d62	13.278	13.288	-0.010	1115	NC	
S 179 HC Dist (C10-C44)					230.4	
S 182 HC Dist (C8-C44)					235.3	
S 186 HC Dist (C10-C40)					200.1	
S 187 HC Dist (C10-C36)					179.2	
S 188 HC Dist (C13-C44)					220.4	
S 189 HC Dist (C13-C40)					190.0	
S 191 HC Dist (C13-C28)					124.7	
S 190 HC Dist (C8-C40)					204.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

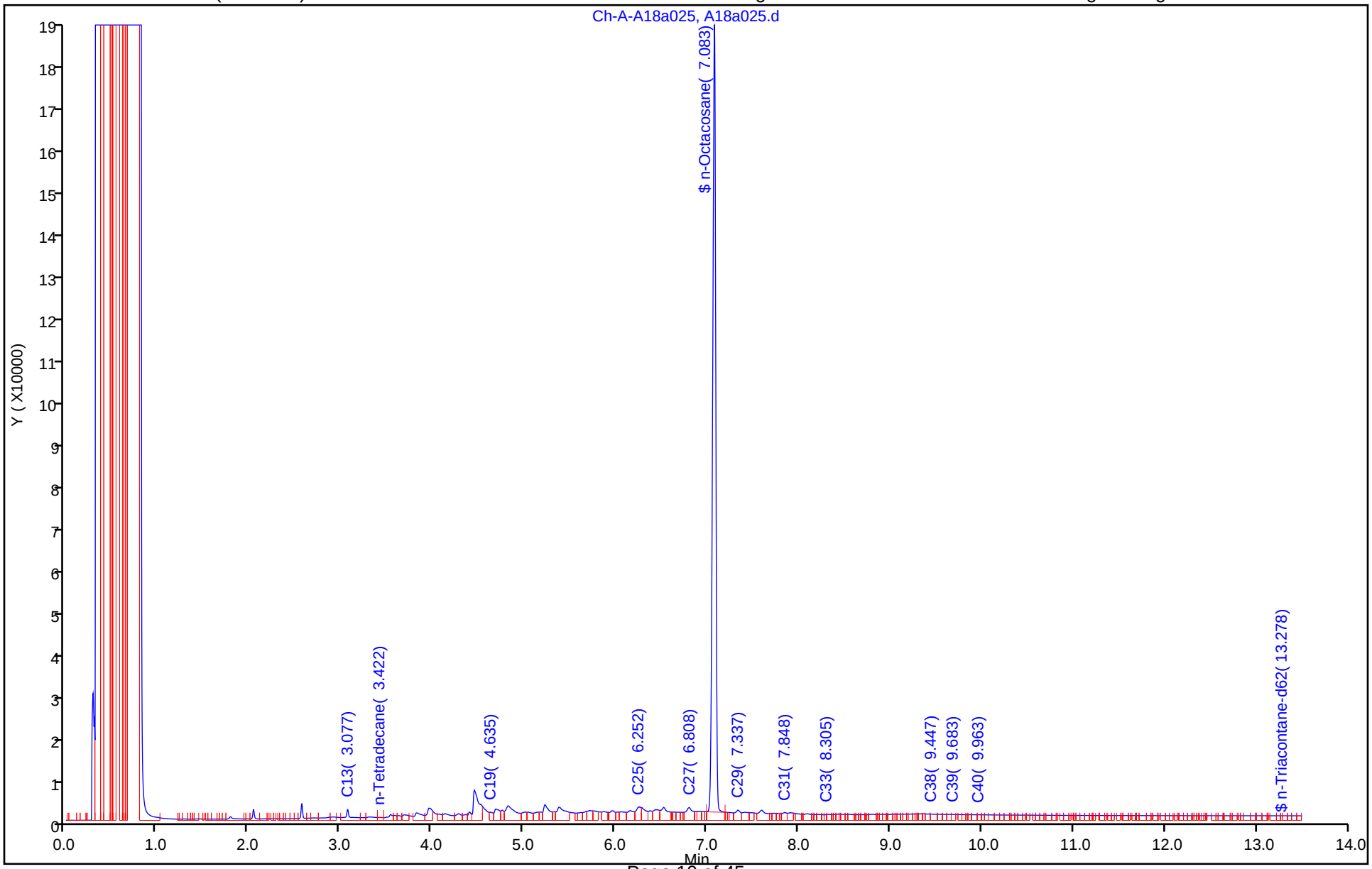
Report Date: 21-Jan-2019 08:26:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a025.d

Injection Date:	18-Jan-2019 16:56:17	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90792-E-3-B	Lab Sample ID:	440-90792-3	Worklist Smp#:	25
Client ID:	DG-U11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a025.d				
Lims ID:	720-90792-E-3-B				
Client ID:	DG-U11W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 16:56:17	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:26:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: doanm Date: 21-Jan-2019 08:26:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	111.8	55.89
$ 178 n-Triacontane-d62	0	0	0.00

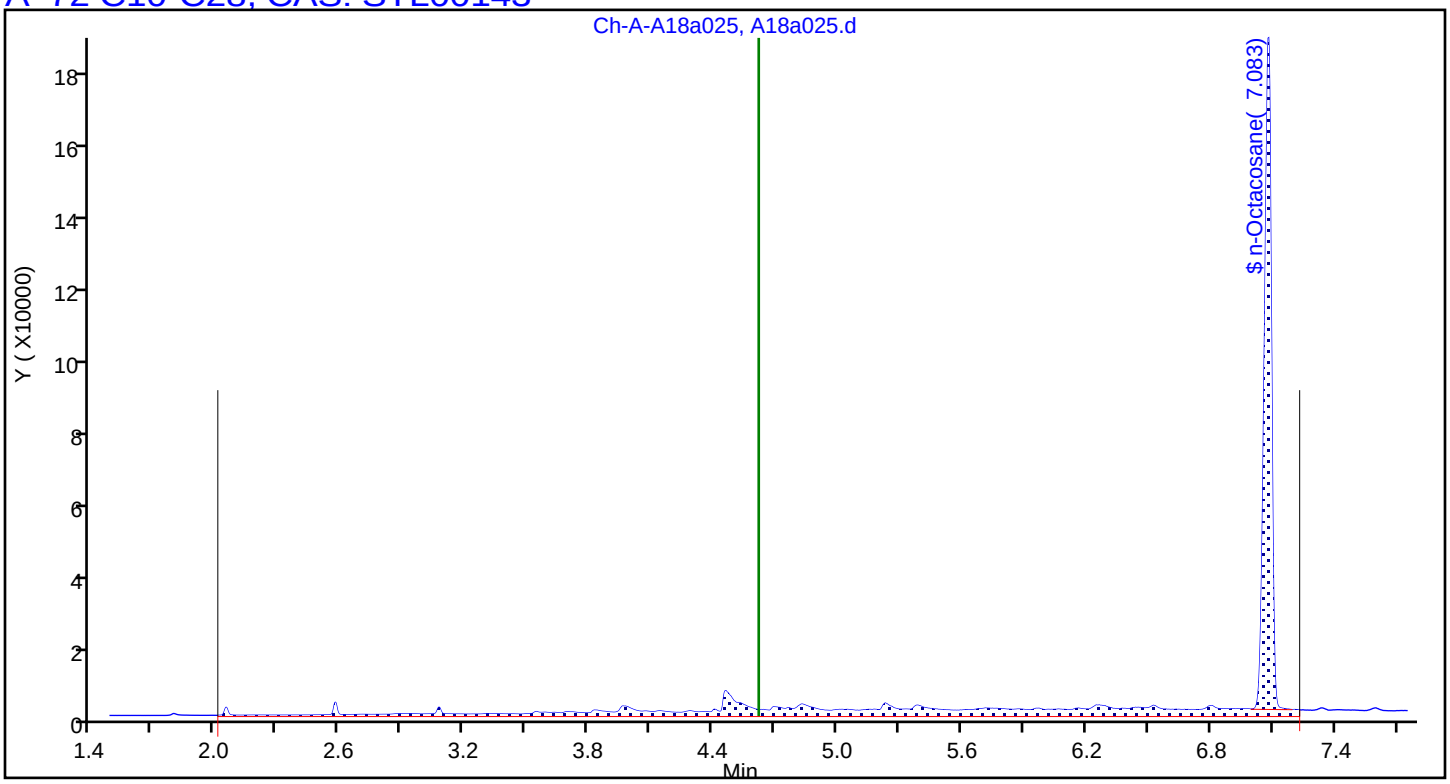
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a025.d

Injection Date:	18-Jan-2019 16:56:17	Instrument ID:	GC70A		
Lims ID:	720-90792-E-3-B	Lab Sample ID:	440-90792-3		
Client ID:	DG-U11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



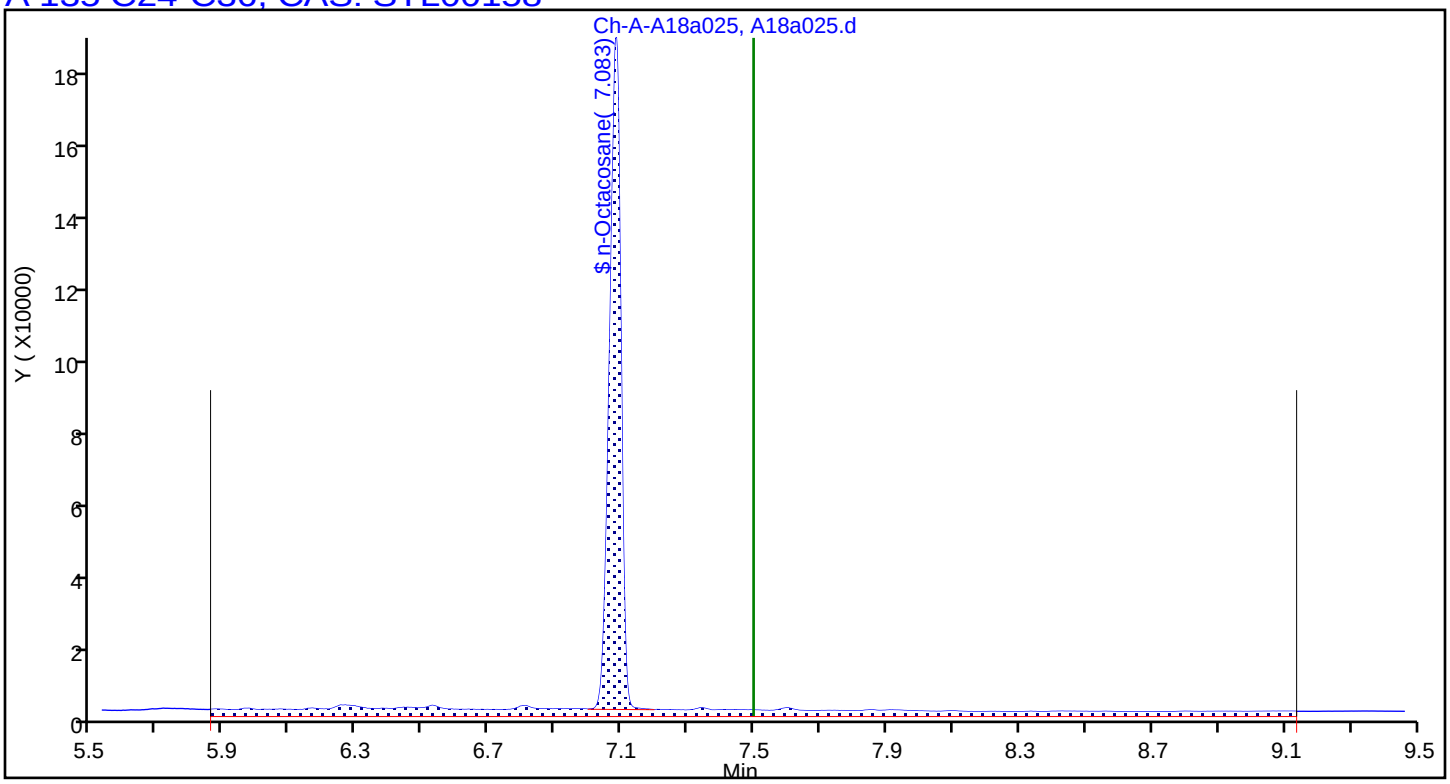
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a025.d

Injection Date:	18-Jan-2019 16:56:17	Instrument ID:	GC70A		
Lims ID:	720-90792-E-3-B	Lab Sample ID:	440-90792-3		
Client ID:	DG-U11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a030.d				
Lims ID:	720-90792-E-4-A				
Client ID:	DG-V13W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 18:44:16	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:28:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: doanm		Date:	21-Jan-2019 08:28:43		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.621	(2.008-7.233)		3238313	894.0	
$ 127 n-Octacosane	7.090	7.065	0.025	644494	175.2	
A 135 C24-C36	7.498	(5.858-9.137)		6377576	1760.7	

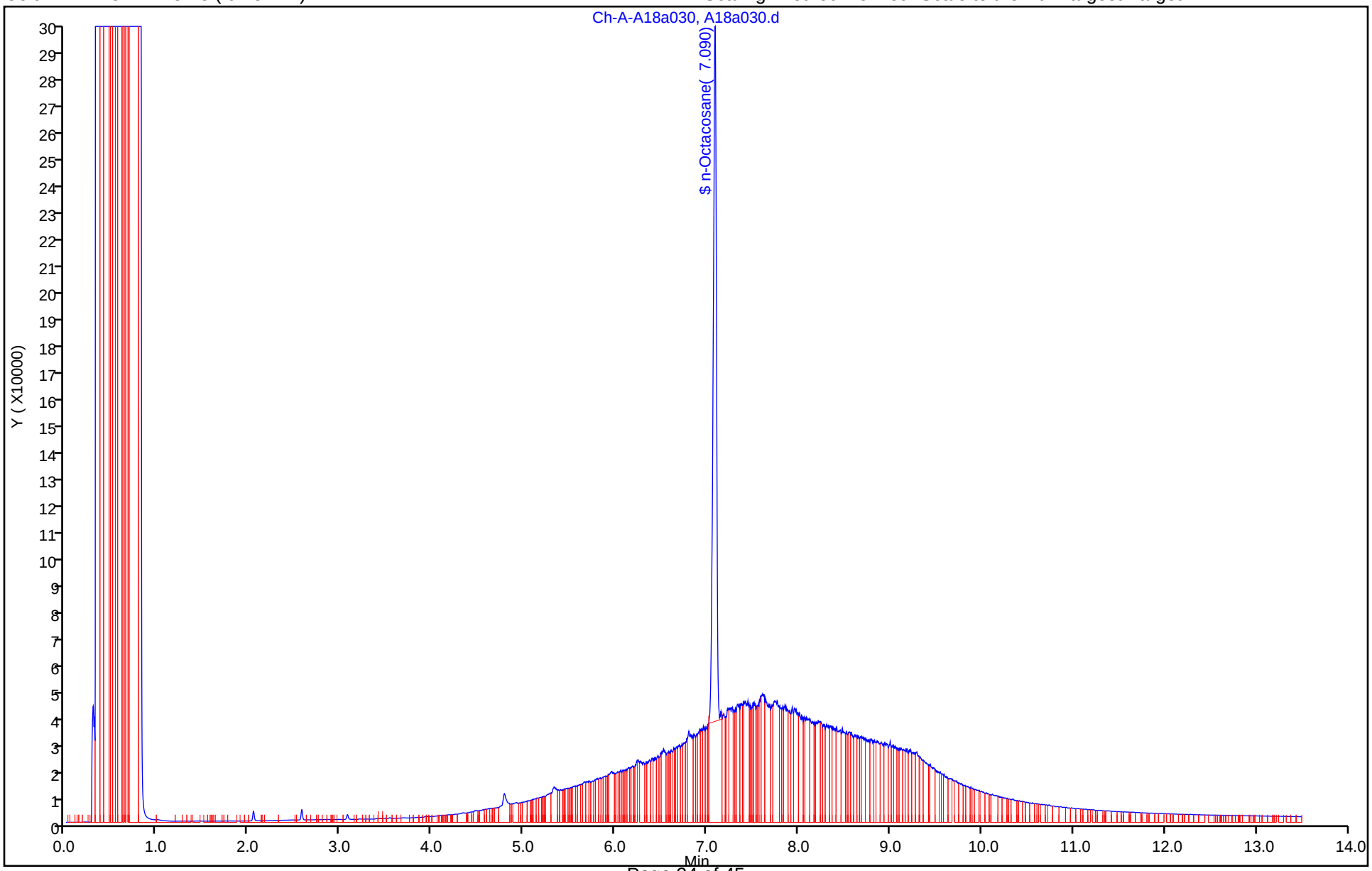
Report Date: 21-Jan-2019 08:28:43 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a030.d

Injection Date:	18-Jan-2019 18:44:16	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90792-E-4-A	Lab Sample ID:	440-90792-4	Worklist Smp#:	30
Client ID:	DG-V13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a030.d				
Lims ID:	720-90792-E-4-A				
Client ID:	DG-V13W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 18:44:16	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:28:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: doanm Date: 21-Jan-2019 08:28:43

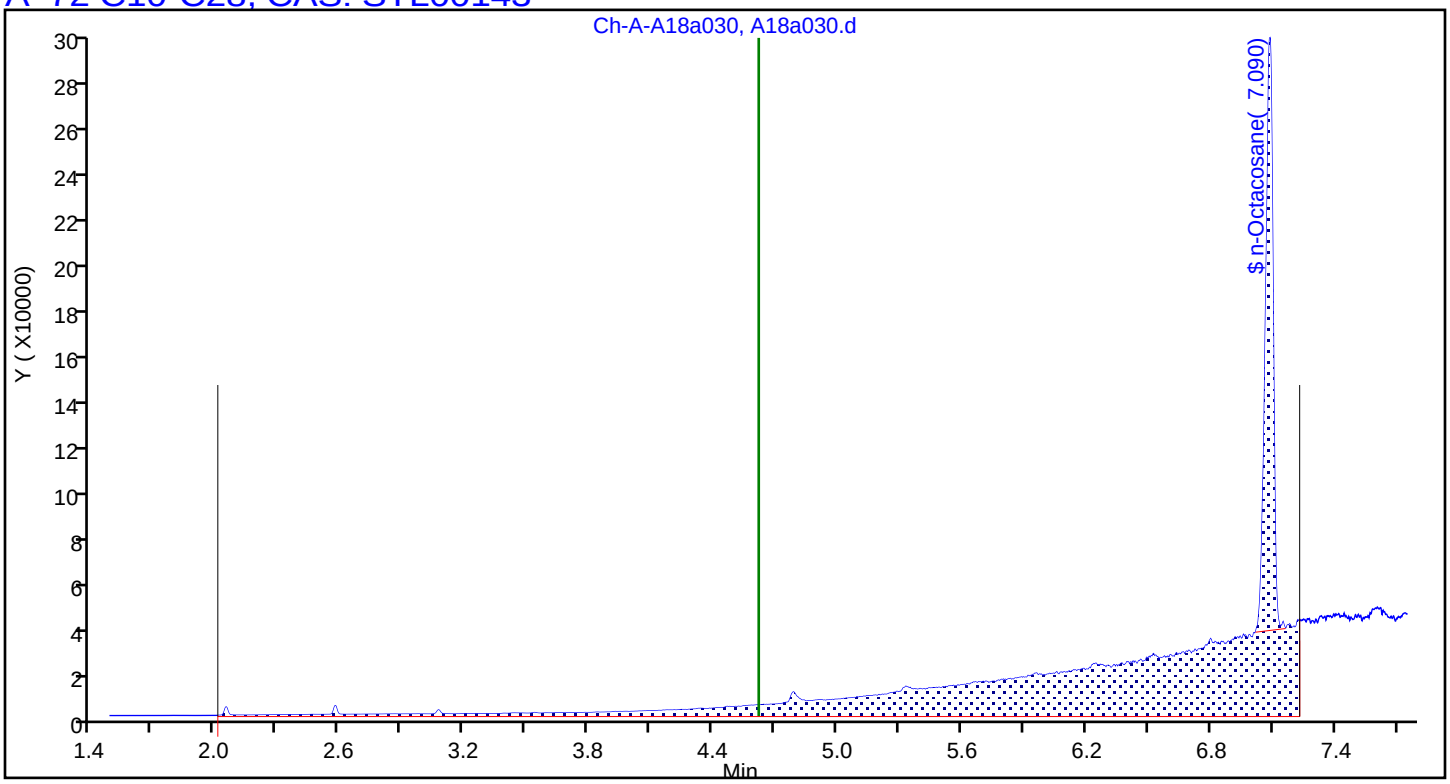
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	175.2	87.59
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 21-Jan-2019 08:28:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a030.d				
Injection Date:	18-Jan-2019 18:44:16	Instrument ID:	GC70A		
Lims ID:	720-90792-E-4-A	Lab Sample ID:	440-90792-4		
Client ID:	DG-V13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

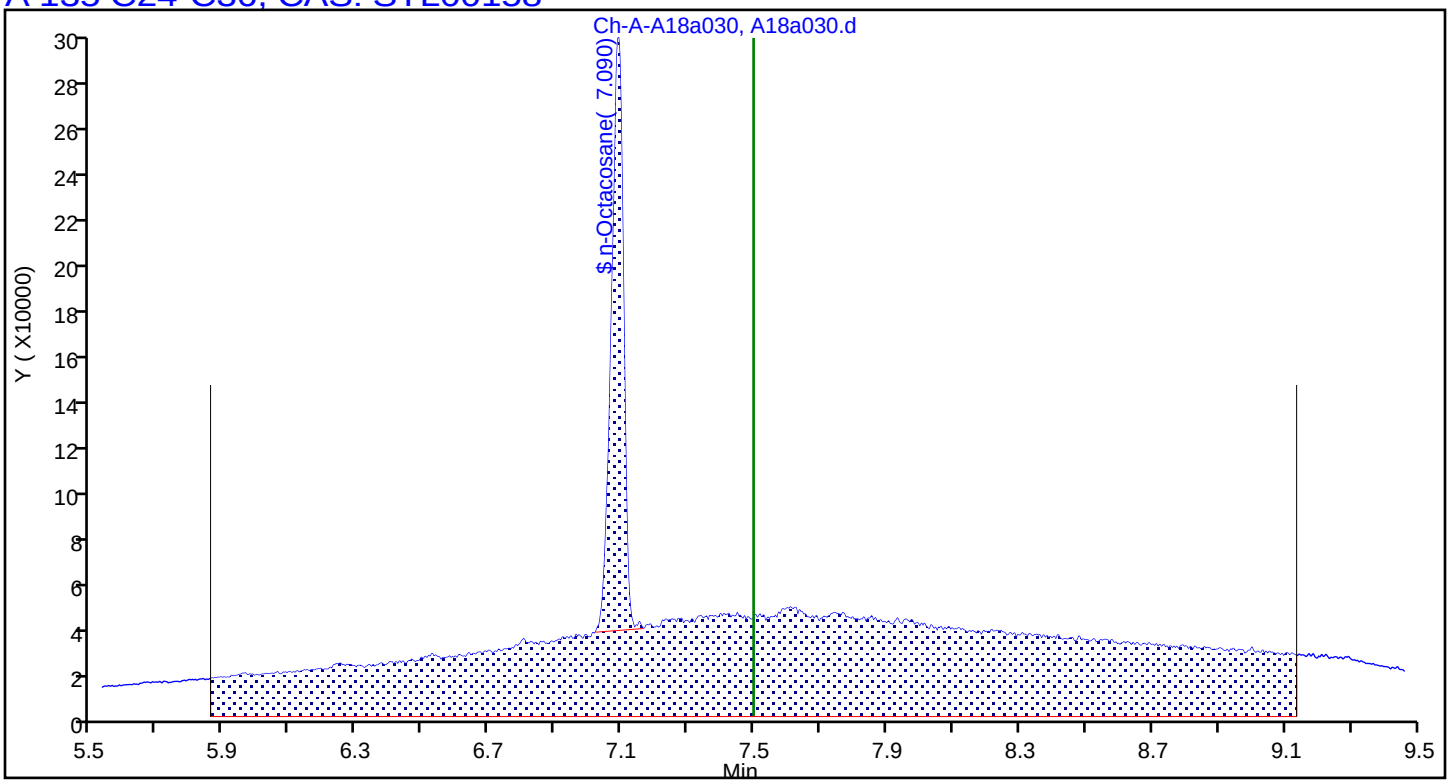


Report Date: 21-Jan-2019 08:28:44 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a030.d				
Injection Date:	18-Jan-2019 18:44:16	Instrument ID:	GC70A		
Lims ID:	720-90792-E-4-A	Lab Sample ID:	440-90792-4		
Client ID:	DG-V13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a034.d				
Lims ID:	720-90792-F-5-A				
Client ID:	DG-T13W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 20:10:56	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:29:52	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: doanm		Date:	21-Jan-2019 08:29:52		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.621	(2.008-7.233)		540240	149.1	
$ 127 n-Octacosane	7.060	7.065	-0.005	527617	143.4	
A 135 C24-C36	7.498	(5.858-9.137)		532067	146.9	

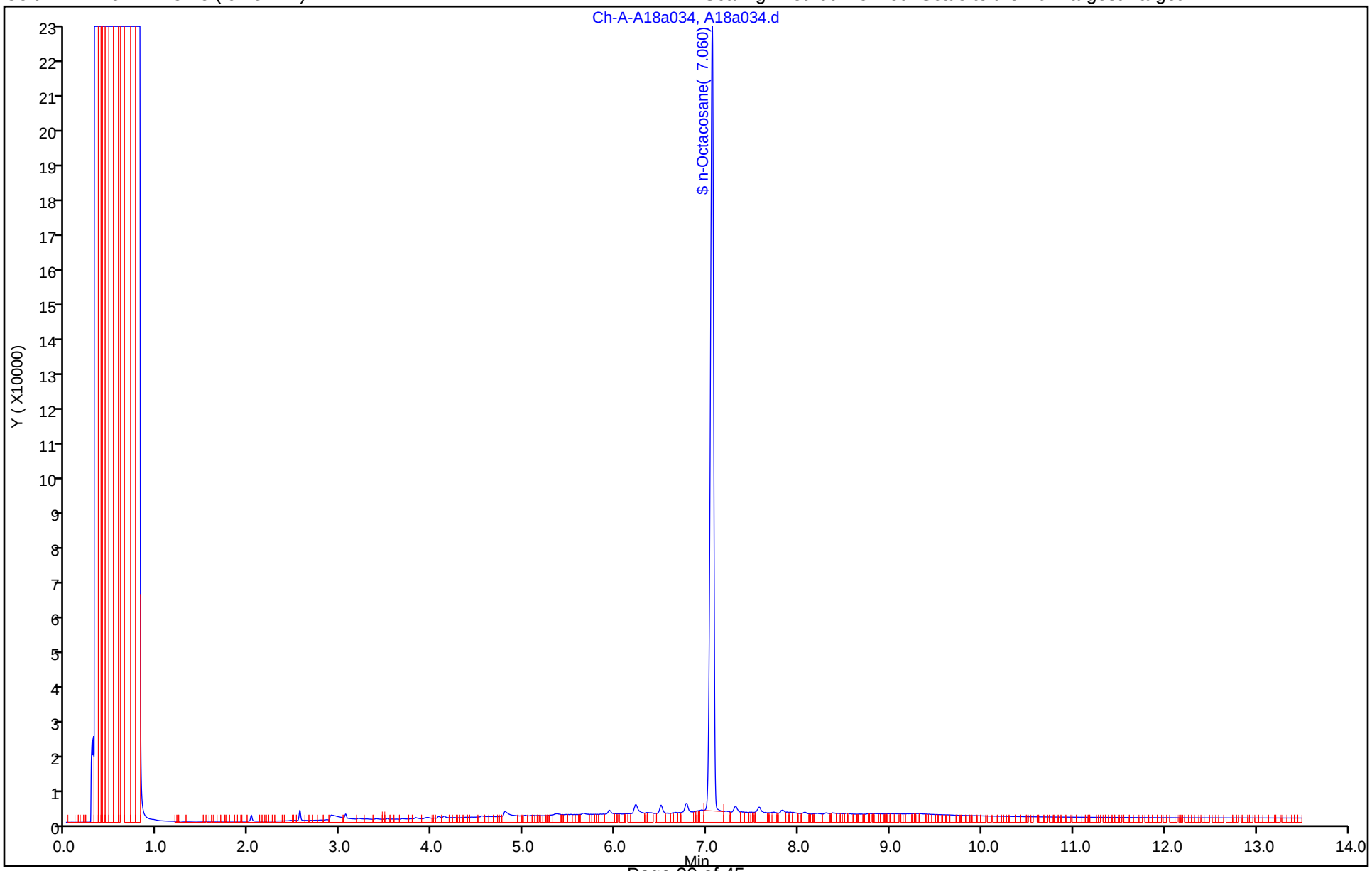
Report Date: 21-Jan-2019 08:29:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a034.d

Injection Date:	18-Jan-2019 20:10:56	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90792-F-5-A	Lab Sample ID:	440-90792-5	Worklist Smp#:	34
Client ID:	DG-T13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a034.d				
Lims ID:	720-90792-F-5-A				
Client ID:	DG-T13W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 20:10:56	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:29:52	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: doanm Date: 21-Jan-2019 08:29:52

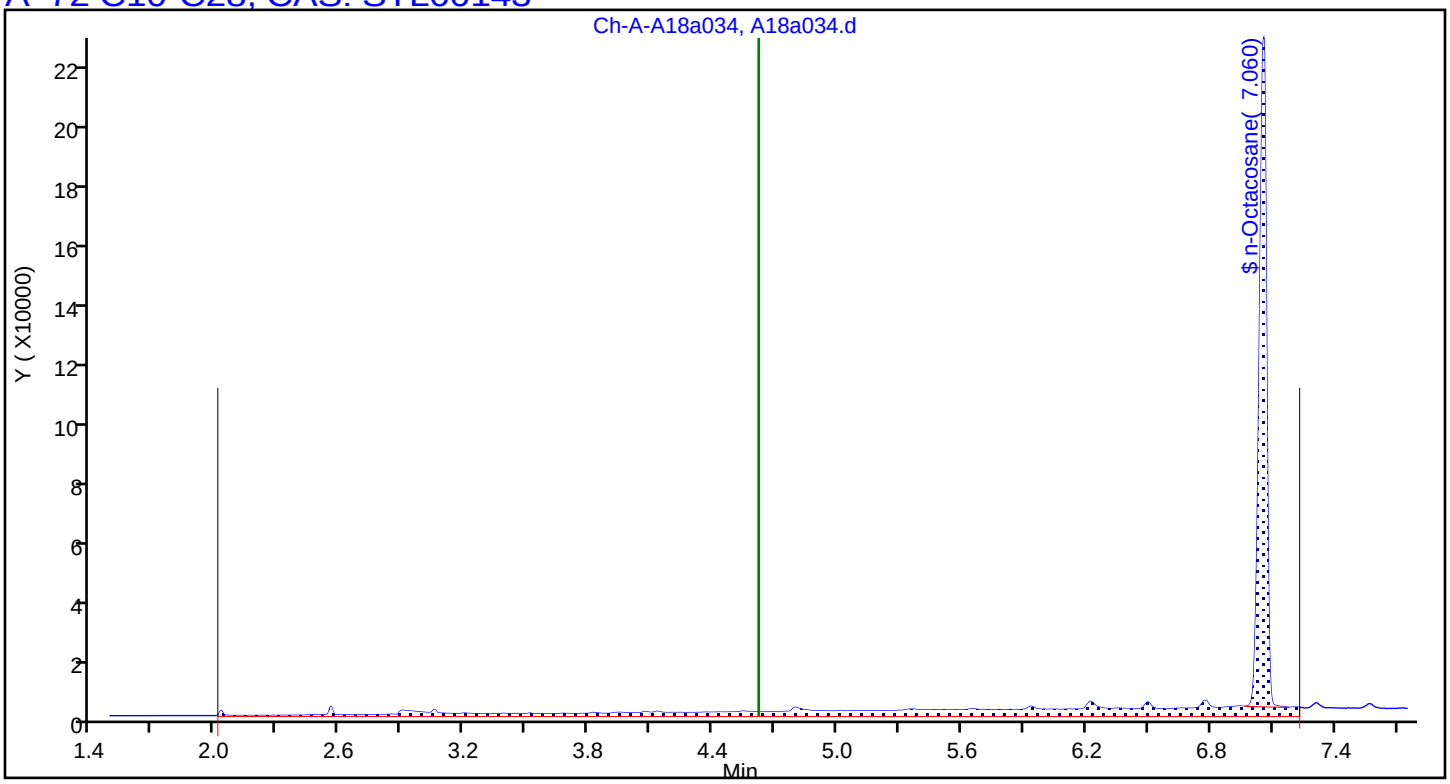
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	143.4	71.71
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 21-Jan-2019 08:29:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a034.d				
Injection Date:	18-Jan-2019 20:10:56	Instrument ID:	GC70A		
Lims ID:	720-90792-F-5-A	Lab Sample ID:	440-90792-5		
Client ID:	DG-T13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

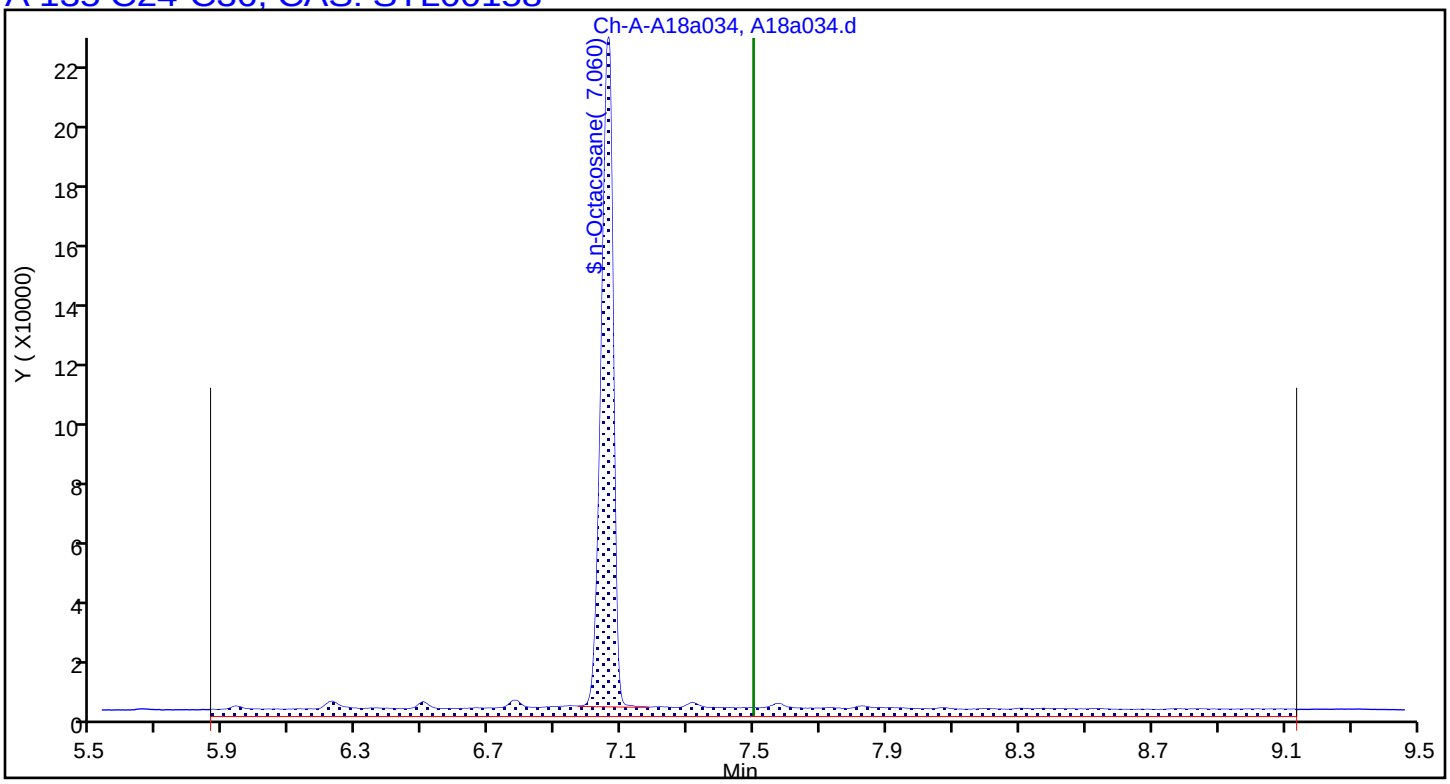


Report Date: 21-Jan-2019 08:29:52 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a034.d				
Injection Date:	18-Jan-2019 20:10:56	Instrument ID:	GC70A		
Lims ID:	720-90792-F-5-A	Lab Sample ID:	440-90792-5		
Client ID:	DG-T13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a035.d				
Lims ID:	720-90792-E-6-A				
Client ID:	DG-Z9W				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 20:32:30	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:30:08	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: doanm		Date:	21-Jan-2019 08:30:08		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.621	(2.008-7.233)		396918	109.6	
$ 127 n-Octacosane	7.058	7.065	-0.007	446610	121.4	
A 135 C24-C36	7.498	(5.858-9.137)		692656	191.2	

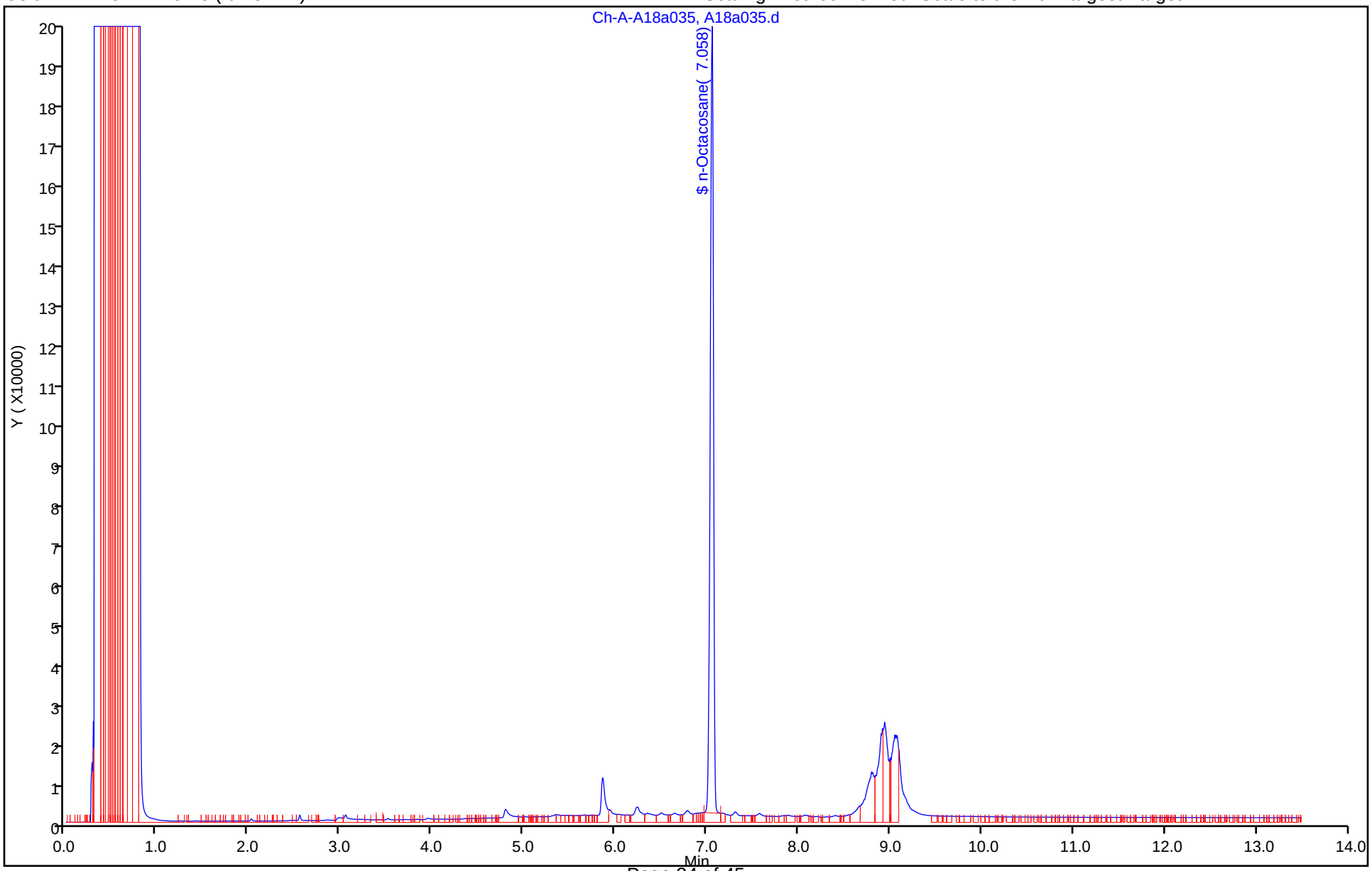
Report Date: 21-Jan-2019 08:30:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a035.d

Injection Date:	18-Jan-2019 20:32:30	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90792-E-6-A	Lab Sample ID:	440-90792-6	Worklist Smp#:	35
Client ID:	DG-Z9W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a035.d
Lims ID: 720-90792-E-6-A
Client ID: DG-Z9W
Sample Type: Client
Inject. Date: 18-Jan-2019 20:32:30 ALS Bottle#: 0 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 21-Jan-2019 08:30:08 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0303

First Level Reviewer: doanm Date: 21-Jan-2019 08:30:08

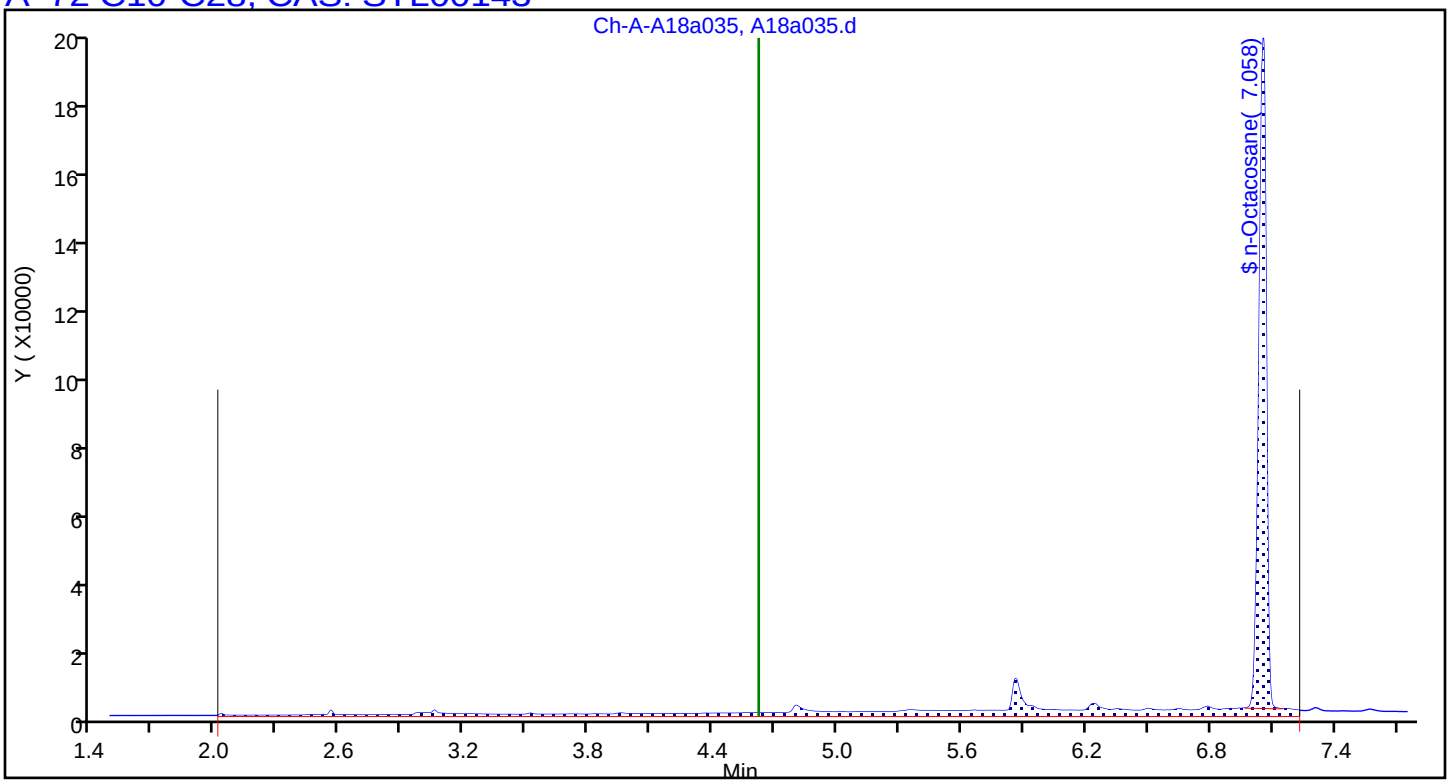
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	121.4	60.70
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 21-Jan-2019 08:30:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a035.d				
Injection Date:	18-Jan-2019 20:32:30	Instrument ID:	GC70A		
Lims ID:	720-90792-E-6-A	Lab Sample ID:	440-90792-6		
Client ID:	DG-Z9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

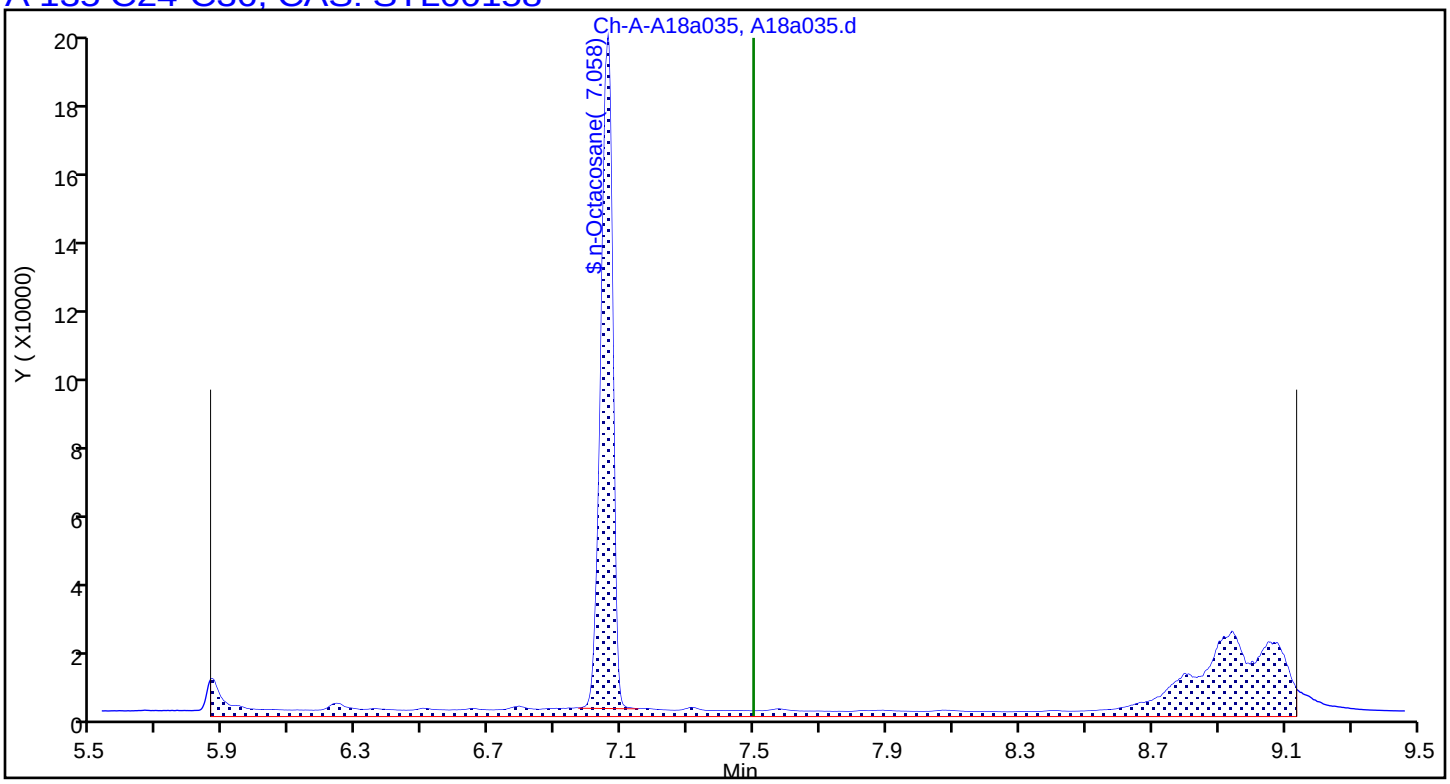


Report Date: 21-Jan-2019 08:30:09 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a035.d				
Injection Date:	18-Jan-2019 20:32:30	Instrument ID:	GC70A		
Lims ID:	720-90792-E-6-A	Lab Sample ID:	440-90792-6		
Client ID:	DG-Z9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a031.d				
Lims ID:	720-90792-E-7-A				
Client ID:	DUP-74				
Sample Type:	Client				
Inject. Date:	18-Jan-2019 19:06:02	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	21-Jan-2019 08:28:58	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: doanm		Date:	21-Jan-2019 08:28:58		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.621	(2.008-7.233)		3147984	869.1	
$ 127 n-Octacosane	7.073	7.065	0.008	622263	169.1	
A 135 C24-C36	7.498	(5.858-9.137)		4448825	1228.2	

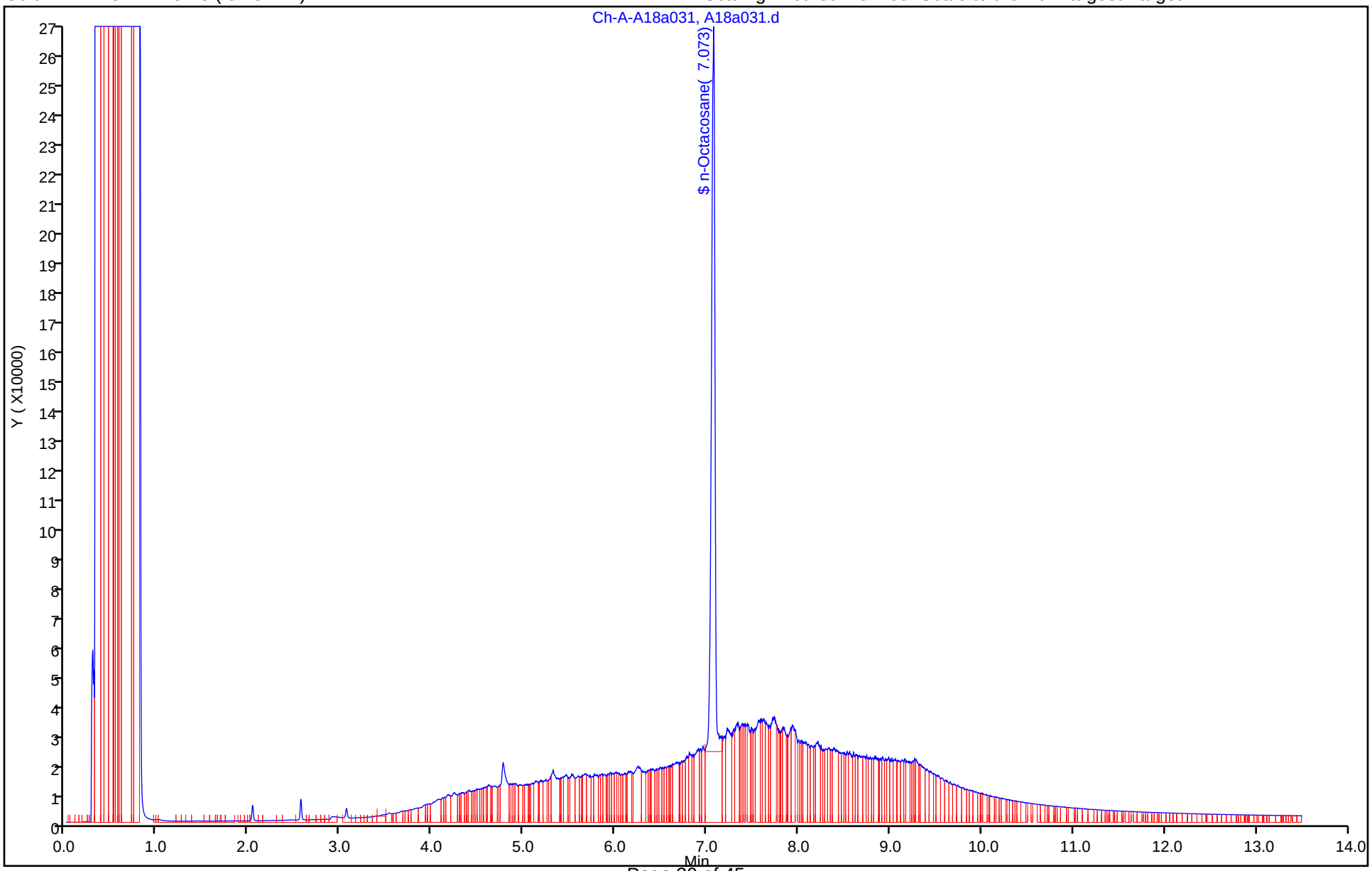
Report Date: 21-Jan-2019 08:28:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a031.d

Injection Date:	18-Jan-2019 19:06:02	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90792-E-7-A	Lab Sample ID:	440-90792-7	Worklist Smp#:	31
Client ID:	DUP-74				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a031.d
Lims ID: 720-90792-E-7-A
Client ID: DUP-74
Sample Type: Client
Inject. Date: 18-Jan-2019 19:06:02 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190118-114382.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 21-Jan-2019 08:28:58 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0303

First Level Reviewer: doanm Date: 21-Jan-2019 08:28:58

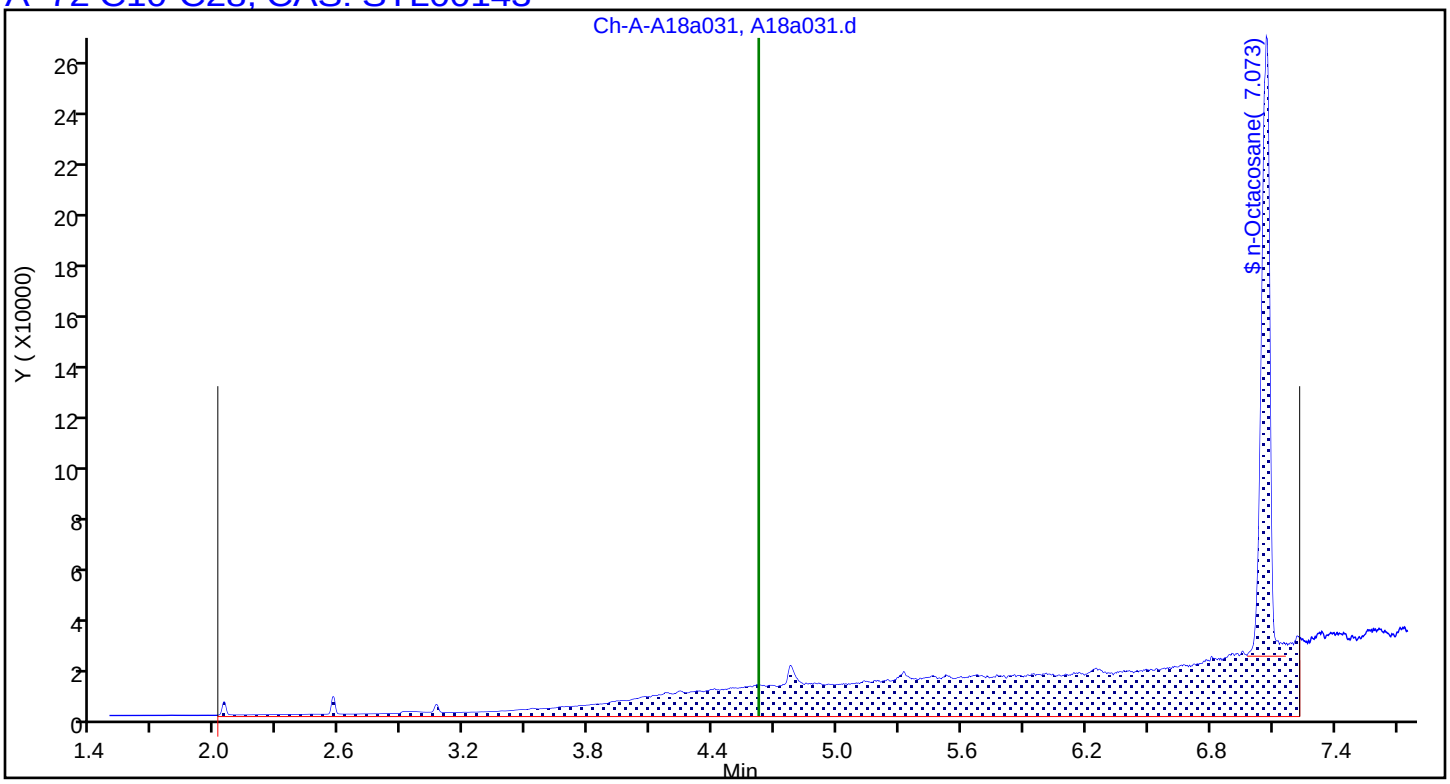
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	169.1	84.57
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 21-Jan-2019 08:28:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a031.d				
Injection Date:	18-Jan-2019 19:06:02	Instrument ID:	GC70A		
Lims ID:	720-90792-E-7-A	Lab Sample ID:	440-90792-7		
Client ID:	DUP-74				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

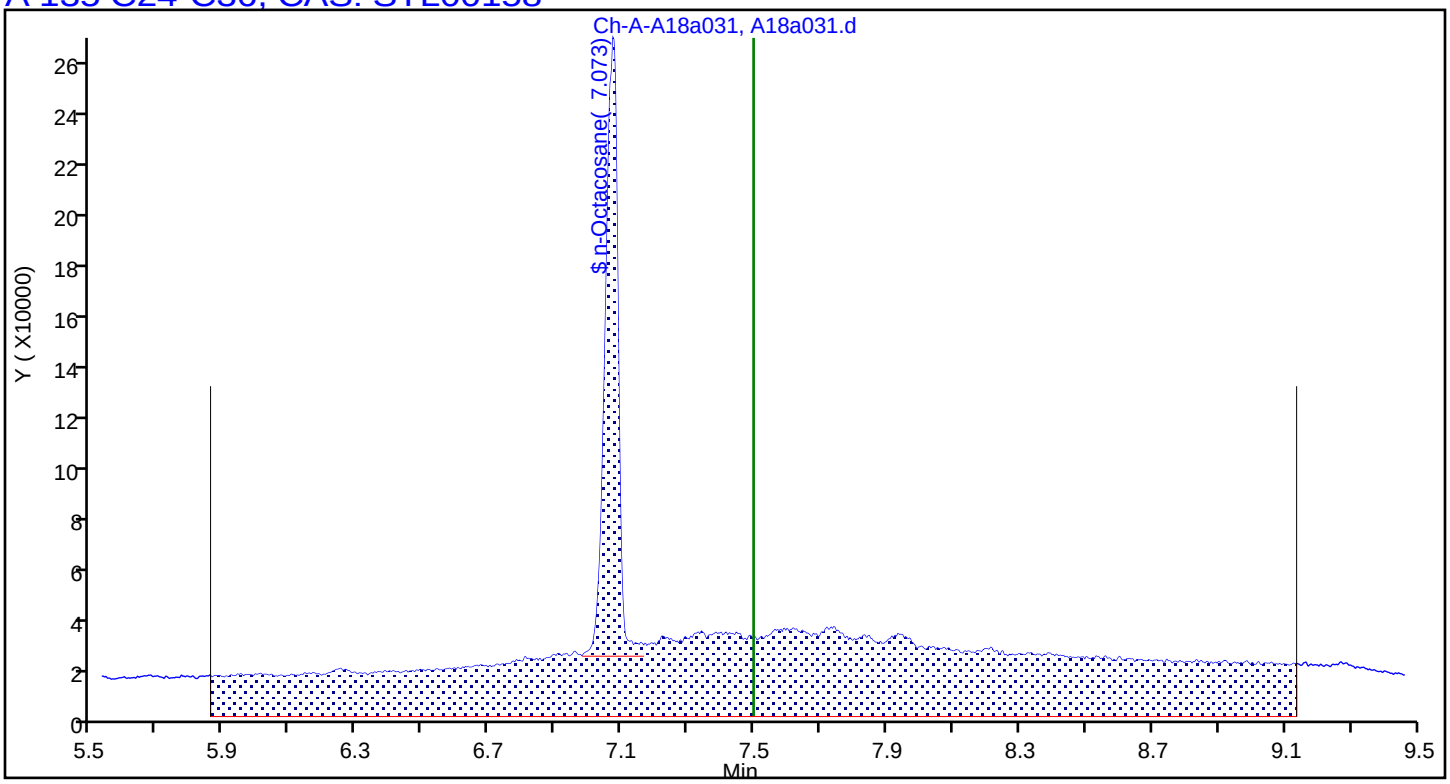


Report Date: 21-Jan-2019 08:28:59 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190118-114382.b\A18a031.d				
Injection Date:	18-Jan-2019 19:06:02	Instrument ID:	GC70A		
Lims ID:	720-90792-E-7-A	Lab Sample ID:	440-90792-7		
Client ID:	DUP-74				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90792

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
157850
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/15/19	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90792 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1. DG - Q11W	1/15/19	1145	G	GW	8	Y		X	X	X	X	X	Metals and chromium samples filtered
2. DG - S11W		1220				Y	Y						MS/MSD for VOCs + metals
3. DG - U11W		1305					Y						MS/MSD for SVOCs + TPH
DG - V13W		1330											
DG - T13W		1355											
DG - Z9W		1430			↓								
DUP - 74		—			↓	↓			↓	↓	↓	↓	
FB - 1.15.19		—			2								
TB - 1.15.19	↓	—	↓	↓	2			↓					

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

2.0°C, 1.2°C, 1.6°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C). Obs'd. ____ Corr'd ____		Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time: 1-15-19 16:20	Received by	Company: TA PLS	Date/Time: 1-15-19 16:20
Relinquished by	Company: TA PLS	Date/Time: 1-15-19 1900	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1-15-19 1900

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40825.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90792-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-Q11W (720-90792-1)	1/15/19	11:45 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-S11W (720-90792-2)	1/15/19	12:20 Pacific		Water			X	X	X	X	5	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-S11W (720-90792-2MS)	1/15/19	12:20 Pacific	MS	Water			X	X			2	check for 2 phases
DG-S11W (720-90792-2MSD)	1/15/19	12:20 Pacific	MSD	Water			X	X			1	check for 2 phases
DG-V11W (720-90792-3)	1/15/19	13:05 Pacific		Water			X	X	X	X	5	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V11W (720-90792-3MS)	1/15/19	13:05 Pacific	MS	Water					X	X	2	check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V11W (720-90792-3MSD)	1/15/19	13:05 Pacific	MSD	Water					X	X	2	check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V13W (720-90792-4)	1/15/19	13:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-T13W (720-90792-5)	1/15/19	13:55 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
	1/16/19 1340	TAPS			
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time 1/17/19 1030	Company TA PW

Custody Seals Intact: Δ Yes Δ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: 3.3/2.3 IR66 / 2.7/2.2 IR94 / IR43 2.6/3.0

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40825.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90792-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-Z9W (720-90792-6)	1/15/19	14:30 Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DUP-74 (720-90792-7)	1/15/19	Pacific		Water			X	X	X	X	6	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-1.15 19 (720-90792-8)	1/15/19	Pacific		Water			X	X			2	check for 2 phases
TB-1.15 19 (720-90792-9)	1/15/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	1/16/19 1340	TAPCS			
Relinquished by	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	1/17/19 1030	TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.2/5.1 & 0.6/4.0C 5.0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90949-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
2/14/2019 4:57 PM

Urvashi Patel, Manager of Project Management
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02/14/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
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The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\5a013019_019.d
Lims ID: 720-90949-E-1-D
Client ID: DG-AP9S-0.5-1
Sample Type: Client
Inject. Date: 30-Jan-2019 18:14:23 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0056359-019
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\DRO5A.m
Limit Group: DRO
Last Update: 31-Jan-2019 12:35:55 Calib Date: 30-Jan-2019 19:41:58
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\5a013019_022.d

Column 1 : Det: GC FID1A
Process Host: CTX0303

First Level Reviewer: luj Date: 31-Jan-2019 12:35:55

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.527			ND	
	23 n-Decane	3.804	3.791	0.013	1049	NC	
A	1 C9-C13	4.514	(2.527-6.501)		206512	NC	
A	21 Stoddard Solvent	4.514	(2.527-6.501)		206512	NC	
A	57 C10-C12	4.744	(3.791-5.697)		4715	0.4811	
	24 Dodecane	5.606	5.697	-0.091	850	NC	
A	3 C9 - C17	5.878	(2.527-9.229)		219241	18.1	
A	47 C9 - C18	6.175	(2.527-9.822)		224165	20.8	
A	60 C10-C16	6.191	(3.791-8.591)		16715	1.52	
A	15 Kerosene	6.444	(2.527-10.361)		237023	22.0	
A	25 C9-C19	6.444	(2.527-10.361)		237023	19.4	
	26 C13	6.517	6.501	0.015	1552	NC	
A	59 C12-C16	7.144	(5.697-8.591)		12850	1.31	
$	27 n-Decanoic Acid (Surr)		7.148			ND	
A	62 C10-C20	7.344	(3.791-10.898)		115078	11.7	
A	28 C9-C24	7.678	(2.527-12.828)		563726	57.5	
A	29 C9-C25	7.896	(2.527-13.265)		729419	74.4	
A	54 C10-C23	8.082	(3.791-12.374)		327115	33.4	
A	4 C10-C24	8.309	(3.791-12.828)		362329	37.0	
A	16 C10-C25	8.528	(3.791-13.265)		528022	53.9	
	45 Hexadecane	8.590	8.591	-0.001	1429	NC	
A	14 C10-C26	8.738	(3.791-13.686)		528022	53.9	
A	67 C12-C22	8.799	(5.697-11.902)		323250	33.0	
A	12 Unknown Hydrocarbons	9.138	(3.791-14.485)		827565	NC	
A	32 C10-C28	9.138	(3.791-14.485)		827565	84.4	
A	5 Diesel	9.138	(3.791-14.485)		827565	84.4	
A	30 C13-C22	9.202	(6.501-11.902)		322000	32.9	
	44 Heptadecane	9.238	9.229	0.009	4924	NC	
A	31 C12-C24	9.263	(5.697-12.828)		358464	36.6	
	49 n-Octadecane	9.836	9.822	0.014	12858	NC	
A	9 Crude Oil Range Organics (	9.871	(2.527-17.215)		2005847	NC	
A	52 Mineral oil	9.871	(2.527-17.215)		2005847	174.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.871	(2.527-17.215)		2747846	NC	
33 C19	10.367	10.361	0.006	23978	NC	
A 64 C13-C28	10.493	(6.501-14.485)		822450	83.9	
A 17 C10-C36	10.503	(3.791-17.215)		2546449	259.8	
A 13 C9-C40	10.641	(2.527-18.754)		2514179	277.0	
A 68 Crude Oil Range Organics (	10.641	(2.527-18.754)		2514179	NC	
A 58 C16-C24	10.710	(8.591-12.828)		347043	35.4	
61 icosane		10.898			ND	
A 6 C10-C40	11.272	(3.791-18.754)		2510071	276.9	
$ 34 p-Terphenyl	11.887	11.897	-0.010	349205	29.3	M
35 n-Docosane		11.902			ND	
A 18 C12-C40	12.225	(5.697-18.754)		2503000	276.6	
36 Tricosane	12.378	12.374	0.004	35214	NC	
A 66 C13-C40	12.628	(6.501-18.754)		2499544	276.3	
37 n-Tetracosane	12.833	12.828	0.005	99714	NC	
A 2 C16-C36 ORO	12.903	(8.591-17.215)		1963143	258.7	
38 C25	13.263	13.265	-0.002	65979	NC	
A 19 C16-C40	13.673	(8.591-18.754)		2471475	273.1	
46 n-Hexacosane		13.686			ND	
A 20 C19-C36	13.788	(10.361-17.215)		1589495	184.2	
A 55 C23-C32	14.153	(12.374-15.932)		1071083	225.2	
39 n-Octacosane	14.476	14.485	-0.009	81572	NC	
65 C29	14.866	14.864	0.002	152623	NC	
A 7 Motor Oil	15.022	(12.828-17.215)		1249168	205.0	
A 40 C24-C36	15.022	(12.828-17.215)		1249168	205.0	
A 50 C25-C36	15.240	(13.265-17.215)		1165861	201.5	
A 10 C22-C40	15.328	(11.902-18.754)		1582504	189.3	
A 41 C23-C40	15.564	(12.374-18.754)		1771554	216.0	
A 8 C24-C40	15.791	(12.828-18.754)		1690048	212.4	
56 Dotriacontane		15.932			ND	
A 51 C28-C40	16.619	(14.485-18.754)		1326467	190.5	
A 63 C29-C40	16.809	(14.864-18.754)		1209359	188.7	
42 n-Hexatriacontane		17.215			ND	
43 C40		18.754			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

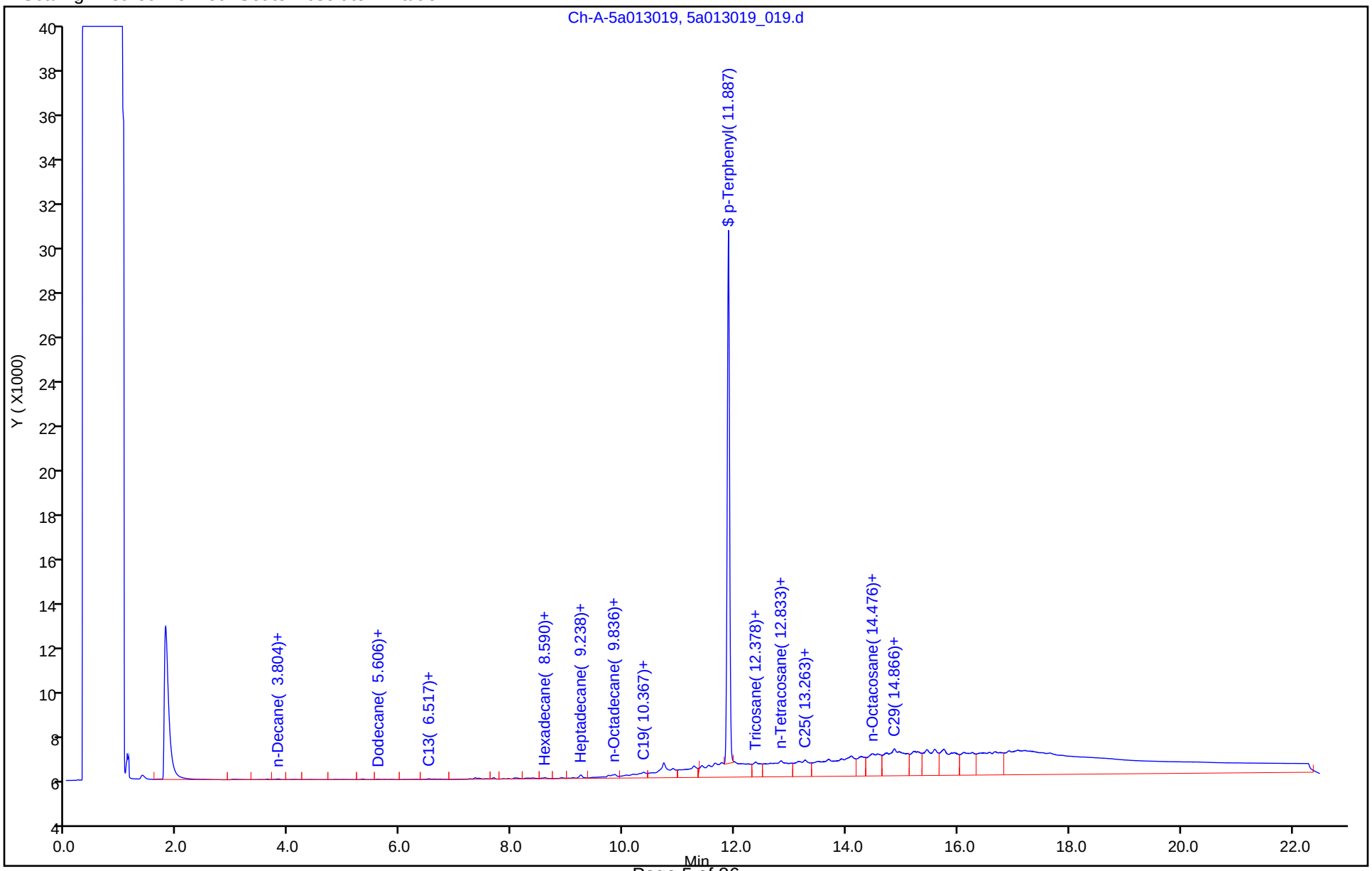
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\5a013019_019.d

Injection Date:	30-Jan-2019 18:14:23	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-1-D	Lab Sample ID:	720-90949-1	Worklist Smp#:	19
Client ID:	DG-AP9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\5a013019_019.d				
Lims ID:	720-90949-E-1-D				
Client ID:	DG-AP9S-0.5-1				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 18:14:23	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0056359-019				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	31-Jan-2019 12:35:55	Calib Date:	30-Jan-2019 19:41:58		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\5a013019_022.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0303				

First Level Reviewer: luj Date: 31-Jan-2019 12:35:55

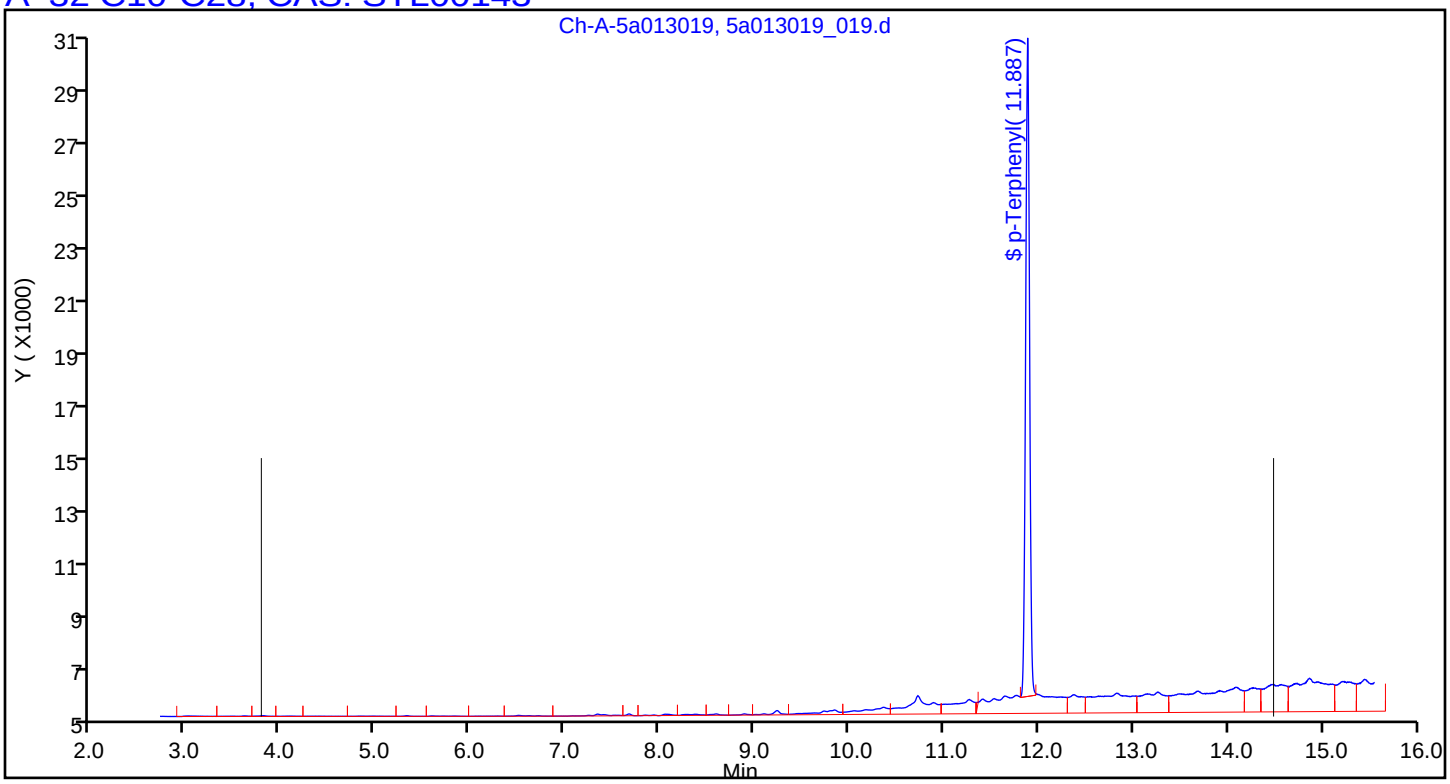
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	29.3	117.13

Report Date: 31-Jan-2019 12:35:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\5a013019_019.d				
Injection Date:	30-Jan-2019 18:14:23	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-1-D	Lab Sample ID:	720-90949-1		
Client ID:	DG-AP9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

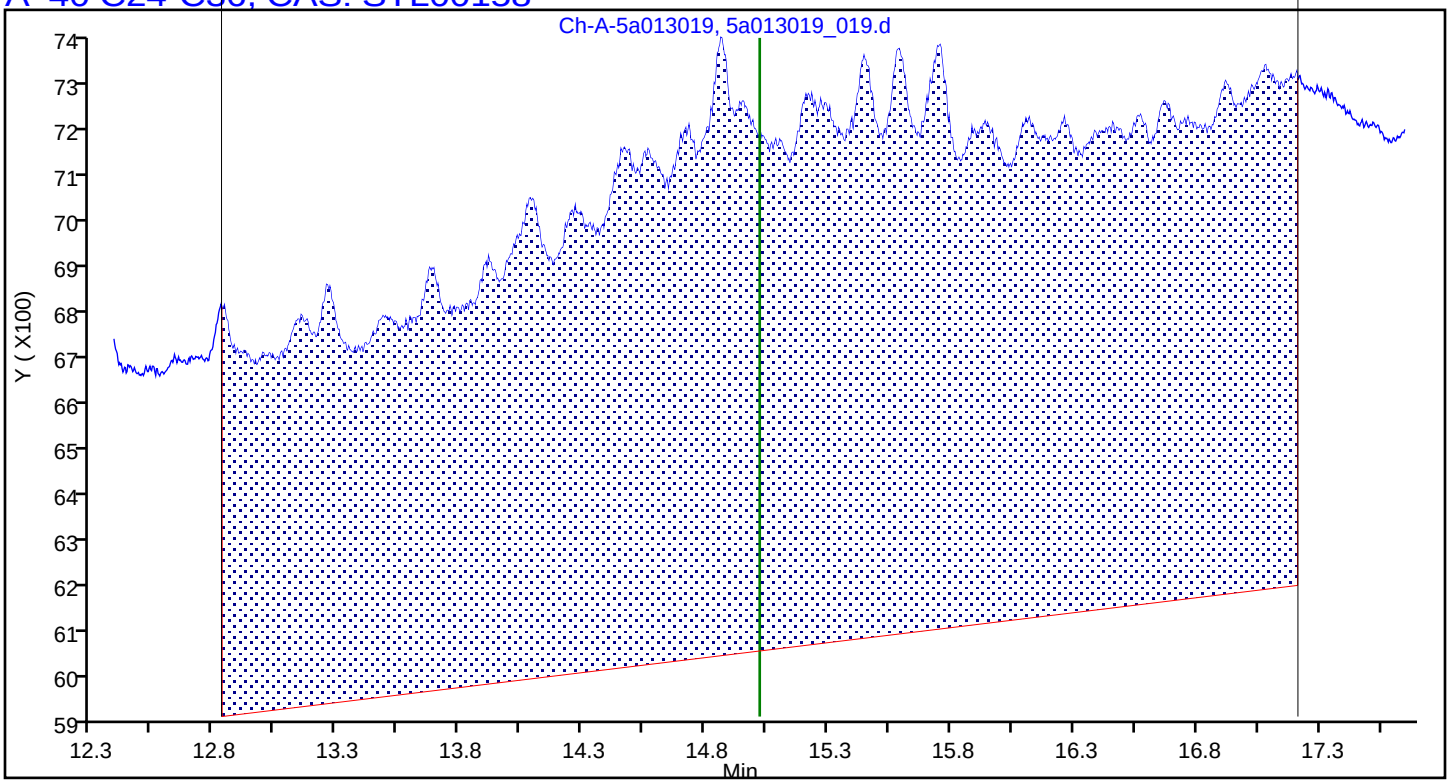


Report Date: 31-Jan-2019 12:35:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56359.b\5a013019_019.d				
Injection Date:	30-Jan-2019 18:14:23	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-1-D	Lab Sample ID:	720-90949-1		
Client ID:	DG-AP9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

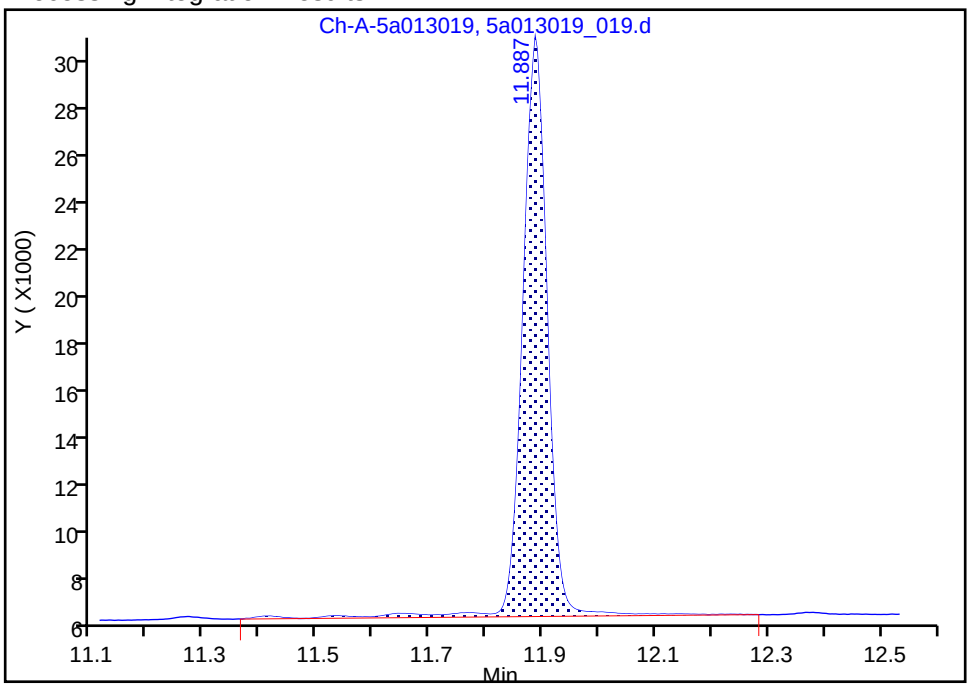
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Injection Date:	30-Jan-2019 18:14:23	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-1-D	Lab Sample ID:	720-90949-1		
Client ID:	DG-AP9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

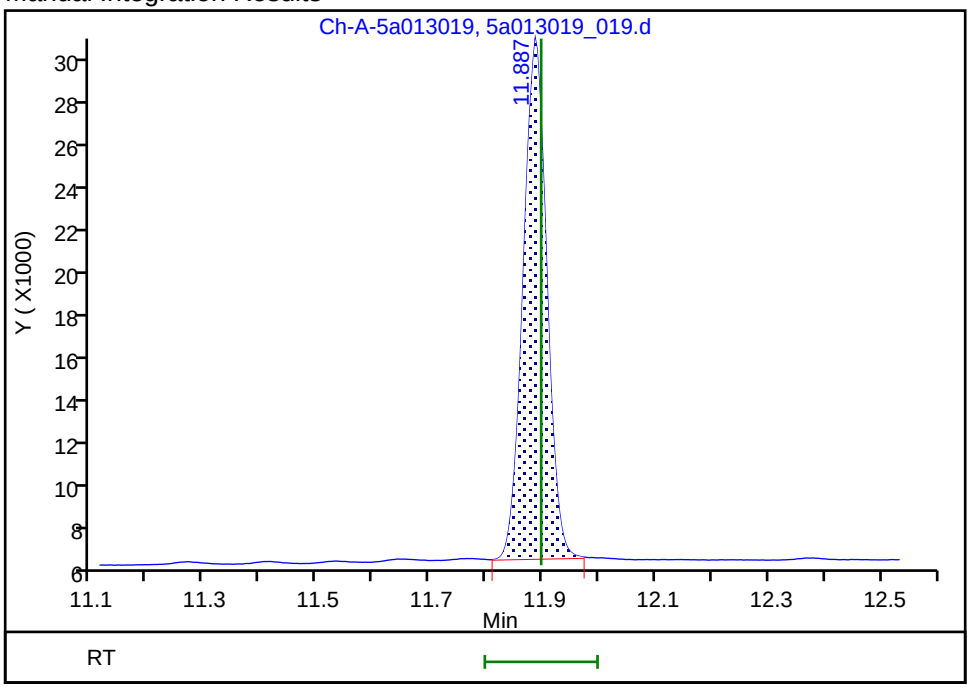
Processing Integration Results

RT: 11.89
Area: 372377
Amount: 31.226809
Amount Units: mg/L



Manual Integration Results

RT: 11.89
Area: 349205
Amount: 29.283650
Amount Units: mg/L



Reviewer: luj, 31-Jan-2019 12:35:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\5a013119_019.d
Lims ID: 720-90949-E-2-D
Client ID: DG-AP9S-3.5-4
Sample Type: Client
Inject. Date: 31-Jan-2019 17:14:51 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 007 Name: 720-0056376-019
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\DRO5A.m
Limit Group: DRO
Last Update: 31-Jan-2019 18:23:33 Calib Date: 31-Jan-2019 08:51:58
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\5a013119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0303

First Level Reviewer: luj Date: 31-Jan-2019 18:23:33

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.529			ND	
	23 n-Decane	3.810	3.790	0.020	1046	NC	
A	1 C9-C13	4.514	(2.529-6.500)		267627	NC	
A	21 Stoddard Solvent	4.514	(2.529-6.500)		267627	NC	
A	57 C10-C12	4.743	(3.790-5.695)		4545	0.4637	
	24 Dodecane	5.729	5.695	0.034	1186	NC	
A	3 C9 - C17	5.879	(2.529-9.229)		286261	23.6	
A	47 C9 - C18	6.175	(2.529-9.822)		290477	27.0	
A	60 C10-C16	6.190	(3.790-8.590)		19592	1.78	
A	15 Kerosene	6.444	(2.529-10.360)		303513	28.1	
A	25 C9-C19	6.444	(2.529-10.360)		303513	24.9	
	26 C13	6.522	6.500	0.022	3077	NC	
A	59 C12-C16	7.142	(5.695-8.590)		15047	1.54	
$	27 n-Decanoic Acid (Surr)		7.150			ND	
A	62 C10-C20	7.343	(3.790-10.897)		70290	7.17	
A	28 C9-C24	7.678	(2.529-12.828)		403257	41.1	
A	29 C9-C25	7.897	(2.529-13.265)		415454	42.4	
A	54 C10-C23	8.082	(3.790-12.374)		120919	12.3	
A	4 C10-C24	8.309	(3.790-12.828)		141361	14.4	
A	16 C10-C25	8.527	(3.790-13.265)		153558	15.7	
	45 Hexadecane	8.598	8.590	0.008	2574	NC	
A	14 C10-C26	8.738	(3.790-13.686)		153558	15.7	
A	67 C12-C22	8.798	(5.695-11.901)		108500	11.1	
A	12 Unknown Hydrocarbons	9.137	(3.790-14.485)		196164	NC	
A	32 C10-C28	9.137	(3.790-14.485)		196164	20.0	
A	5 Diesel	9.137	(3.790-14.485)		196164	20.0	
A	30 C13-C22	9.200	(6.500-11.901)		107314	10.9	
	44 Heptadecane	9.233	9.229	0.004	4216	NC	
A	31 C12-C24	9.261	(5.695-12.828)		136816	14.0	
	49 n-Octadecane	9.831	9.822	0.009	7583	NC	
A	9 Crude Oil Range Organics (	9.872	(2.529-17.215)		650082	NC	
A	52 Mineral oil	9.872	(2.529-17.215)		650082	56.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.872	(2.529-17.215)		588830	NC	
33 C19	10.369	10.360	0.009	5897	NC	
A 64 C13-C28	10.492	(6.500-14.485)		190433	19.4	
A 17 C10-C36	10.503	(3.790-17.215)		326934	33.4	
A 13 C9-C40	10.642	(2.529-18.755)		872506	67.7	
A 68 Crude Oil Range Organics (	10.642	(2.529-18.755)		872506	NC	
A 58 C16-C24	10.709	(8.590-12.828)		121769	12.4	
61 icosane		10.897			ND	
A 6 C10-C40	11.272	(3.790-18.755)		867693	67.6	
$ 34 p-Terphenyl	11.883	11.887	-0.004	315606	26.5	M
35 n-Docosane		11.901			ND	
A 18 C12-C40	12.225	(5.695-18.755)		858805	67.1	
36 Tricosane	12.372	12.374	-0.002	7874	NC	
A 66 C13-C40	12.627	(6.500-18.755)		853893	66.6	
37 n-Tetracosane	12.816	12.828	-0.012	20442	NC	
A 2 C16-C36 ORO	12.903	(8.590-17.215)		603932	79.6	
38 C25	13.263	13.265	-0.002	12197	NC	
A 19 C16-C40	13.672	(8.590-18.755)		826356	63.4	
46 n-Hexacosane		13.686			ND	
A 20 C19-C36	13.788	(10.360-17.215)		345292	40.0	
A 55 C23-C32	14.153	(12.374-15.933)		291528	61.3	
39 n-Octacosane		14.485			ND	
65 C29	14.861	14.864	-0.003	19937	NC	
A 7 Motor Oil	15.022	(12.828-17.215)		275436	45.2	
A 40 C24-C36	15.022	(12.828-17.215)		275436	45.2	
A 50 C25-C36	15.240	(13.265-17.215)		259386	44.8	
A 10 C22-C40	15.328	(11.901-18.755)		244271	29.2	
A 41 C23-C40	15.564	(12.374-18.755)		466434	56.9	
A 8 C24-C40	15.791	(12.828-18.755)		450838	56.7	
56 Dotriacontane		15.933			ND	
A 51 C28-C40	16.620	(14.485-18.755)		377591	39.4	
A 63 C29-C40	16.809	(14.864-18.755)		352151	38.1	
42 n-Hexatriacontane		17.215			ND	
43 C40		18.755			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

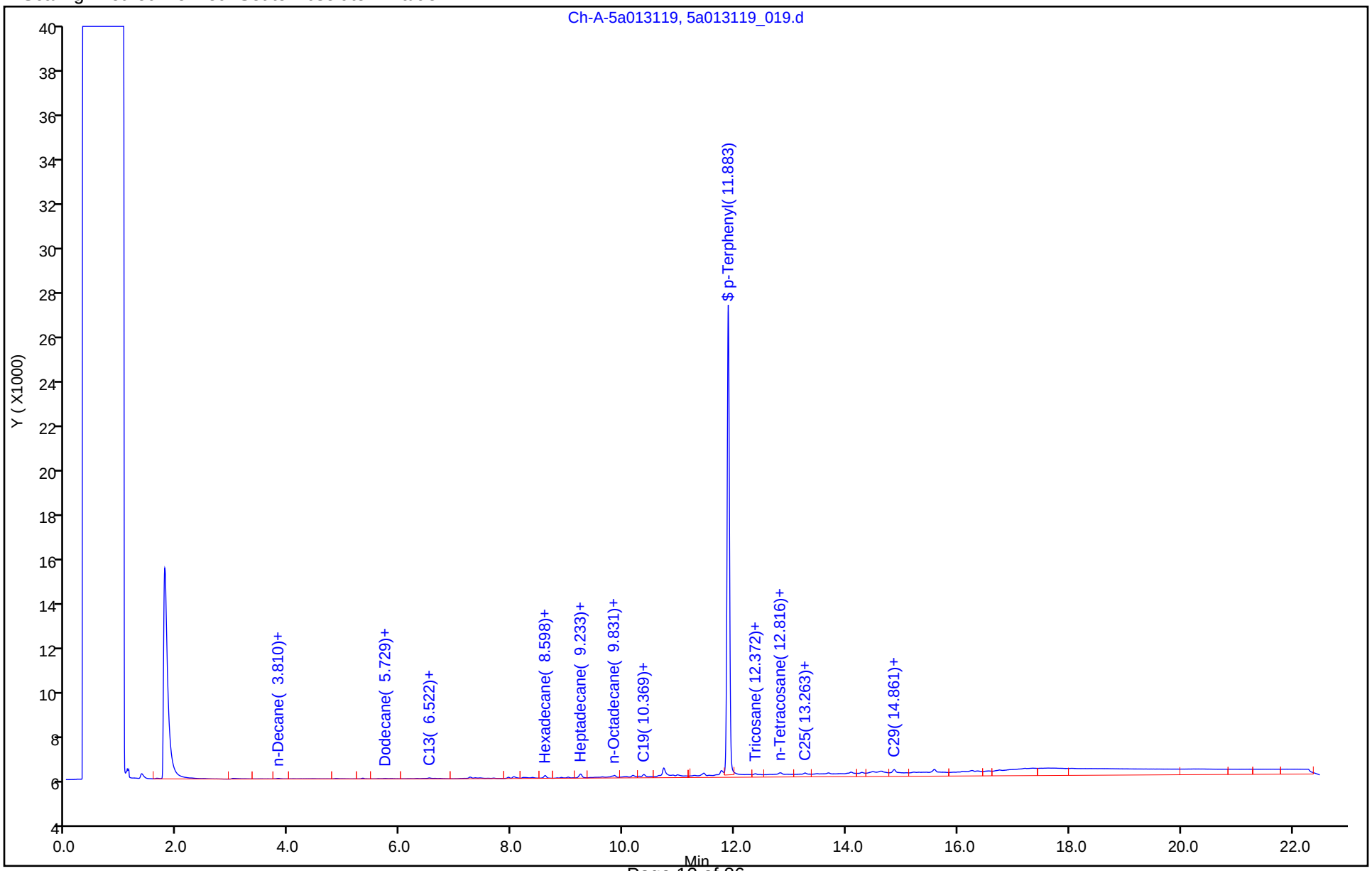
Report Date: 31-Jan-2019 18:23:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\5a013119_019.d

Injection Date:	31-Jan-2019 17:14:51	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-2-D	Lab Sample ID:	720-90949-2	Worklist Smp#:	19
Client ID:	DG-AP9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\5a013119_019.d				
Lims ID:	720-90949-E-2-D				
Client ID:	DG-AP9S-3.5-4				
Sample Type:	Client				
Inject. Date:	31-Jan-2019 17:14:51	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 007 Name: 720-0056376-019				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	31-Jan-2019 18:23:33	Calib Date:	31-Jan-2019 08:51:58		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\5a013119_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0303				

First Level Reviewer: luj Date: 31-Jan-2019 18:23:33

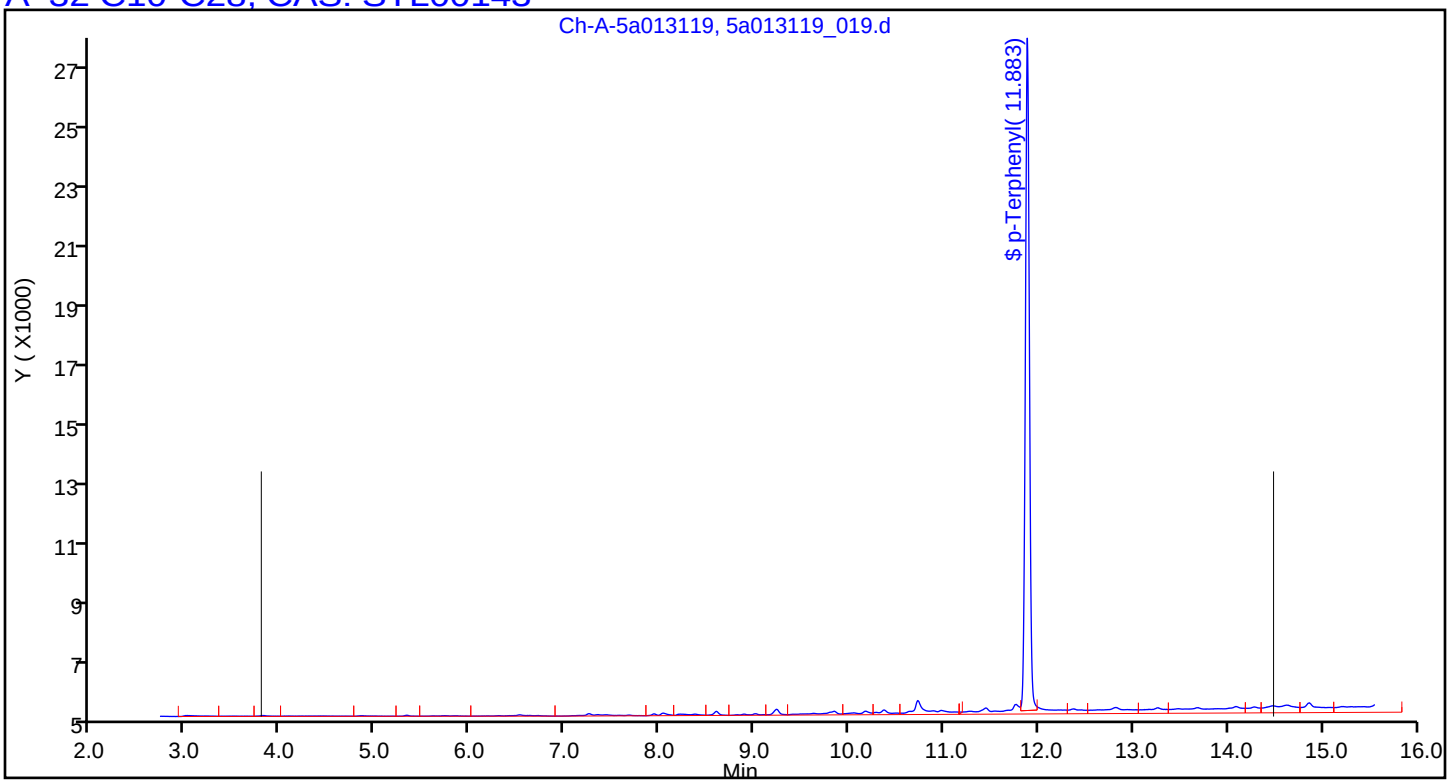
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.5	105.86

Report Date: 31-Jan-2019 18:23:35 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\5a013119_019.d				
Injection Date:	31-Jan-2019 17:14:51	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-2-D	Lab Sample ID:	720-90949-2		
Client ID:	DG-AP9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

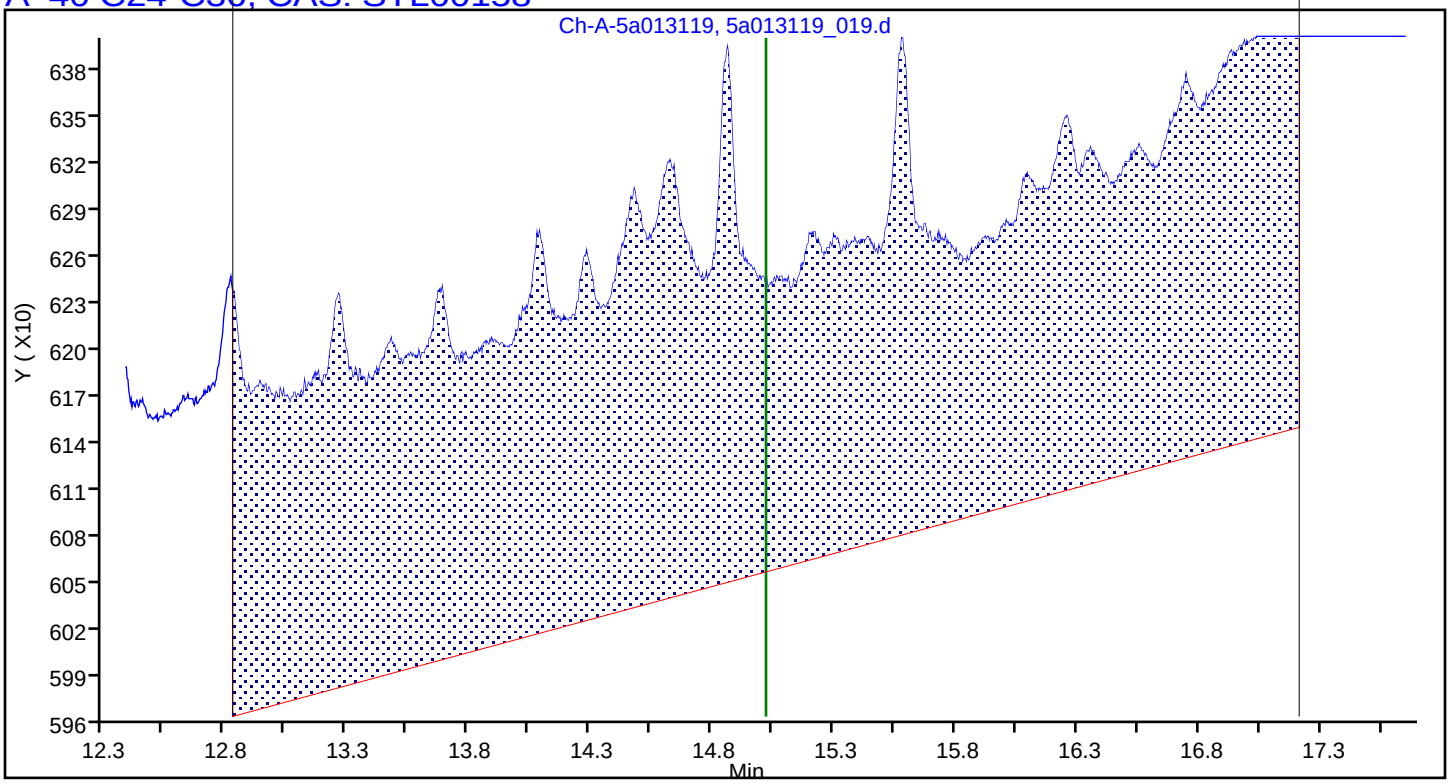


Report Date: 31-Jan-2019 18:23:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\5a013119_019.d				
Injection Date:	31-Jan-2019 17:14:51	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-2-D	Lab Sample ID:	720-90949-2		
Client ID:	DG-AP9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

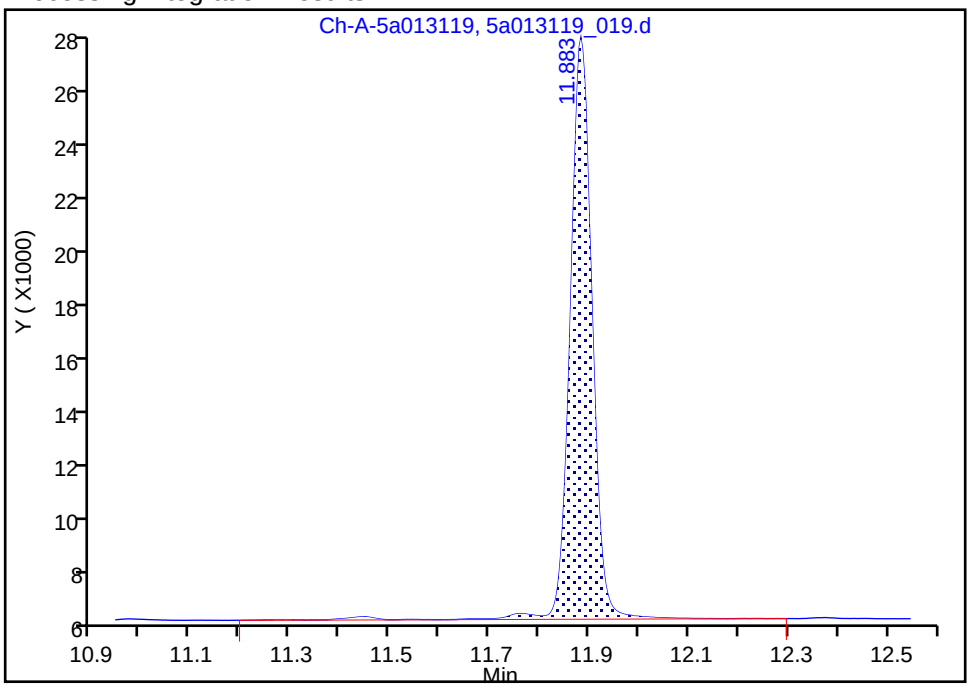
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56376.b\5a013119_019.d				
Injection Date:	31-Jan-2019 17:14:51	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-2-D	Lab Sample ID:	720-90949-2		
Client ID:	DG-AP9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

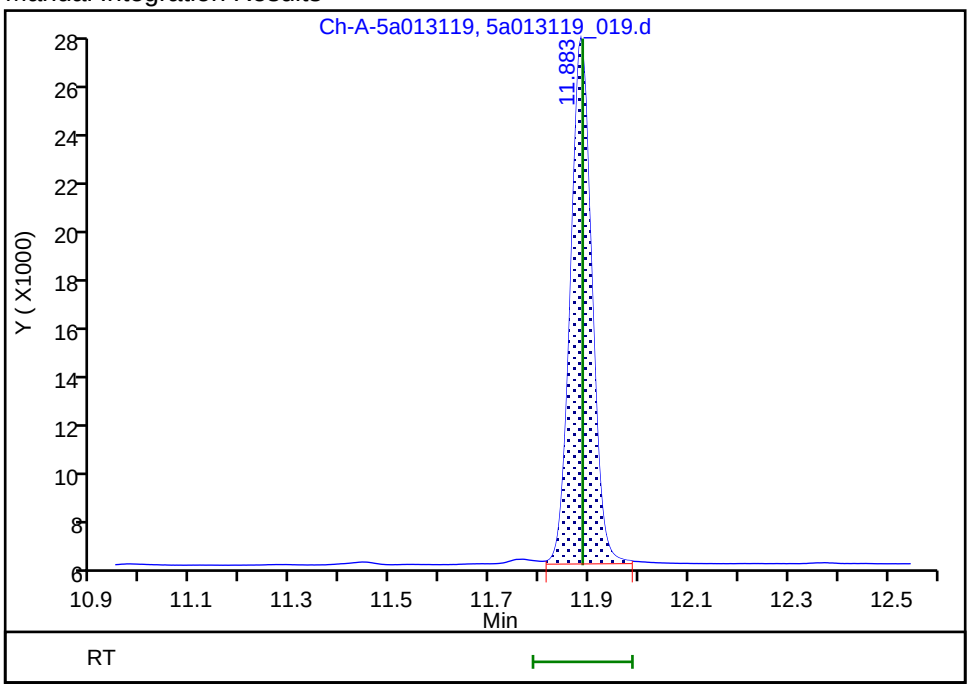
Processing Integration Results

RT: 11.88
Area: 326179
Amount: 27.352735
Amount Units: mg/L



Manual Integration Results

RT: 11.88
Area: 315606
Amount: 26.466104
Amount Units: mg/L



Reviewer: luj, 31-Jan-2019 18:23:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_014.d
Lims ID: 720-90949-E-3-D
Client ID: DG-AN9S-0.5-1
Sample Type: Client
Inject. Date: 04-Feb-2019 15:51:43 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 103 Name: 720-0056422-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m
Limit Group: DRO
Last Update: 04-Feb-2019 16:17:27 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0301

First Level Reviewer: luj Date: 04-Feb-2019 16:17:27

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.687	2.644	0.043	887	NC	
	23 n-Decane	3.868	3.862	0.006	1713	NC	
A	21 Stoddard Solvent	4.600	(2.644-6.555)		42317	3.72	
A	1 C9-C13	4.600	(2.644-6.555)		42317	3.34	
A	57 C10-C12	4.809	(3.862-5.757)		19246	1.96	
	24 Dodecane	5.754	5.757	-0.003	2161	NC	
A	3 C9 - C17	5.951	(2.644-9.259)		180485	13.1	
A	47 C9 - C18	6.240	(2.644-9.835)		290619	25.9	
A	60 C10-C16	6.245	(3.862-8.628)		132470	10.9	
A	25 C9-C19	6.515	(2.644-10.387)		422131	30.6	
A	15 Kerosene	6.515	(2.644-10.387)		422131	37.5	
	26 C13	6.510	6.555	-0.045	5672	NC	
$	27 n-Decanoic Acid (Surr)		7.167			ND	U
A	59 C12-C16	7.193	(5.757-8.628)		115385	11.8	
A	62 C10-C20	7.391	(3.862-10.921)		554768	56.5	
A	28 C9-C24	7.741	(2.644-12.838)		1896973	193.2	
A	29 C9-C25	7.958	(2.644-13.272)		2138816	217.8	
A	54 C10-C23	8.125	(3.862-12.388)		1443950	147.1	
A	4 C10-C24	8.350	(3.862-12.838)		1886141	192.1	
A	16 C10-C25	8.567	(3.862-13.272)		2127984	216.7	
	45 Hexadecane	8.628	8.628	0.000	7688	NC	
A	14 C10-C26	8.776	(3.862-13.690)		2450704	249.6	
A	67 C12-C22	8.838	(5.757-11.919)		1079072	109.9	
A	12 Unknown Hydrocarbons	9.172	(3.862-14.483)		3259377	NC	
A	32 C10-C28	9.172	(3.862-14.483)		3259377	332.0	
A	5 Diesel	9.172	(3.862-14.483)		3259377	332.0	
A	30 C13-C22	9.237	(6.555-11.919)		1070344	109.0	
	44 Heptadecane	9.274	9.259	0.015	34136	NC	
A	31 C12-C24	9.297	(5.757-12.838)		1869056	190.4	
	49 n-Octadecane	9.829	9.835	-0.006	17816	NC	
A	11 Bunker Range Organics (C9-	9.920	(2.644-17.197)		7702092	NC	
A	9 Crude Oil Range Organics (	9.920	(2.644-17.197)		6457096	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.920	(2.644-17.197)		6457096	578.5	
33 C19	10.386	10.387	-0.001	57307	NC	
A 64 C13-C28	10.519	(6.555-14.483)		3233564	329.3	
A 17 C10-C36	10.529	(3.862-17.197)		7691260	783.4	
A 68 Crude Oil Range Organics (	10.675	(2.644-18.706)		7468241	NC	
A 13 C9-C40	10.675	(2.644-18.706)		7468241	934.5	
A 58 C16-C24	10.733	(8.628-12.838)		1761359	179.4	
61 icosane	10.923	10.921	0.002	57346	NC	
A 6 C10-C40	11.284	(3.862-18.706)		7454155	932.9	
$ 34 p-Terphenyl	11.890	11.892	-0.002	277777	24.2	
35 n-Docosane	12.008	11.919	0.089	61355	NC	
A 18 C12-C40	12.231	(5.757-18.706)		7418725	928.7	
36 Tricosane	12.390	12.388	0.002	122733	NC	
A 66 C13-C40	12.631	(6.555-18.706)		7043579	883.0	
37 n-Tetracosane	12.837	12.838	-0.001	138149	NC	
A 2 C16-C36 ORO	12.913	(8.628-17.197)		4843717	679.0	
38 C25	13.273	13.272	0.001	104668	NC	
A 19 C16-C40	13.667	(8.628-18.706)		7243202	907.7	
46 n-Hexacosane	13.690	13.690	0.000	114501	NC	
A 20 C19-C36	13.792	(10.387-17.197)		4743152	608.3	
A 55 C23-C32	14.154	(12.388-15.920)		3175433	773.1	
39 n-Octacosane	14.507	14.483	0.024	72643	NC	
65 C29	14.860	14.860	0.000	195600	NC	
A 7 Motor Oil	15.017	(12.838-17.197)		3976607	696.6	
A 40 C24-C36	15.017	(12.838-17.197)		3976607	696.6	
A 50 C25-C36	15.234	(13.272-17.197)		3632578	675.0	
A 10 C22-C40	15.312	(11.919-18.706)		5221012	659.1	
A 41 C23-C40	15.547	(12.388-18.706)		5180805	670.1	
A 8 C24-C40	15.772	(12.838-18.706)		4862724	651.9	
56 Dotriacontane	15.902	15.920	-0.018	176363	NC	
A 51 C28-C40	16.595	(14.483-18.706)		3460903	683.8	
A 63 C29-C40	16.783	(14.860-18.706)		3071563	680.2	
42 n-Hexatriacontane	17.155	17.197	-0.042	2065894	NC	
43 C40		18.706			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

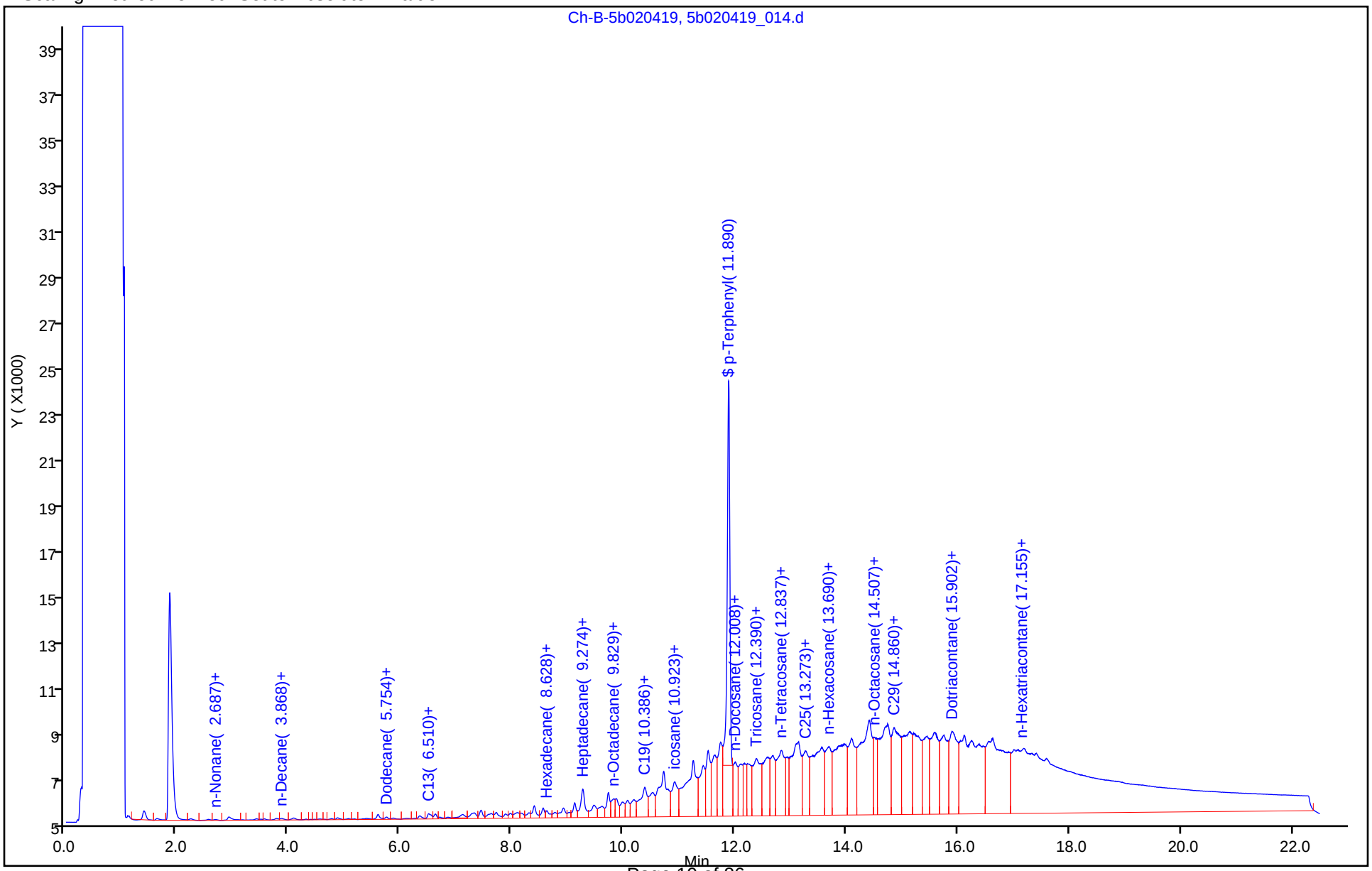
Report Date: 04-Feb-2019 16:17:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_014.d

Injection Date:	04-Feb-2019 15:51:43	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-3-D	Lab Sample ID:	720-90949-3	Worklist Smp#:	14
Client ID:	DG-AN9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_014.d				
Lims ID:	720-90949-E-3-D				
Client ID:	DG-AN9S-0.5-1				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 15:51:43	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 103 Name: 720-0056422-014				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	04-Feb-2019 16:17:27	Calib Date:	04-Feb-2019 09:47:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0301				

First Level Reviewer: luj Date: 04-Feb-2019 16:17:27

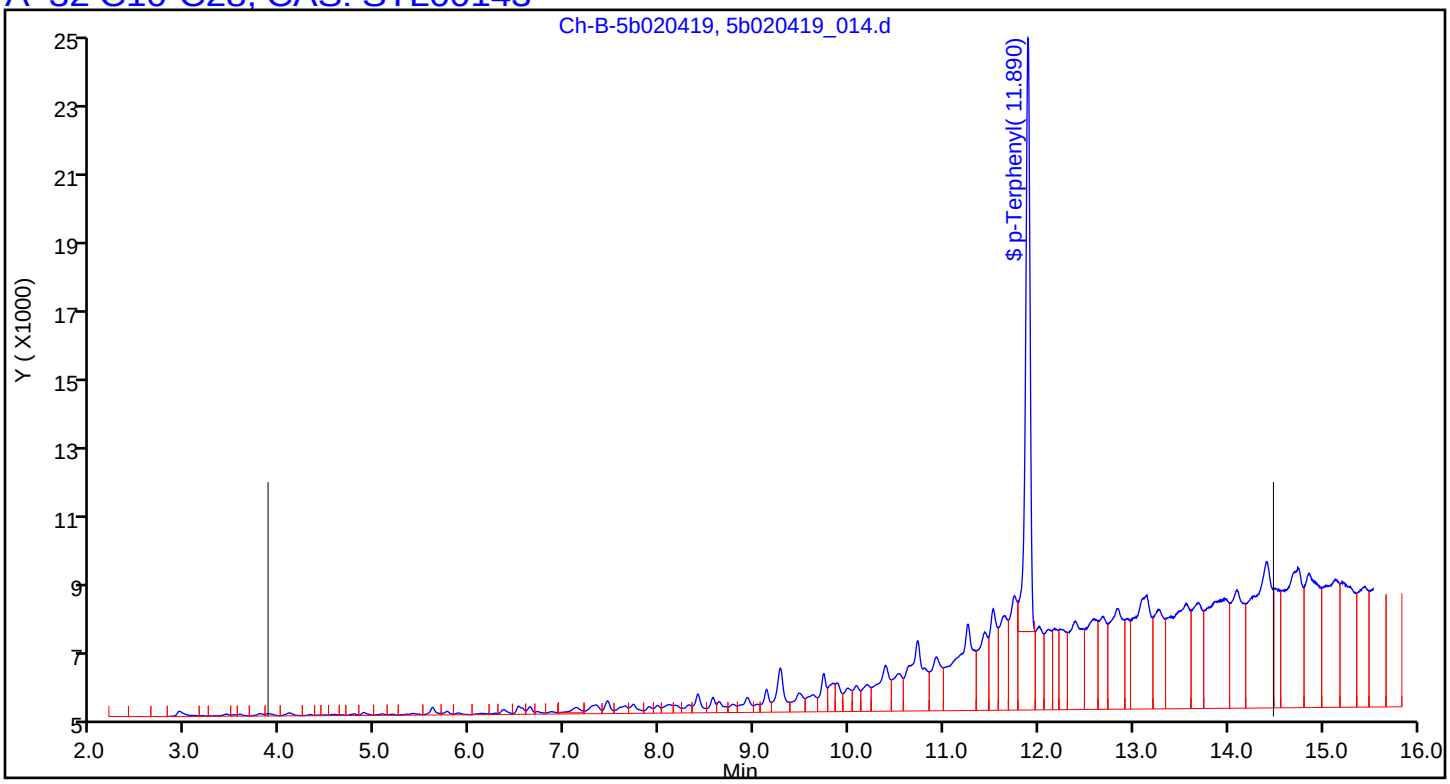
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.2	96.74

Report Date: 04-Feb-2019 16:17:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_014.d				
Injection Date:	04-Feb-2019 15:51:43	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-3-D	Lab Sample ID:	720-90949-3		
Client ID:	DG-AN9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

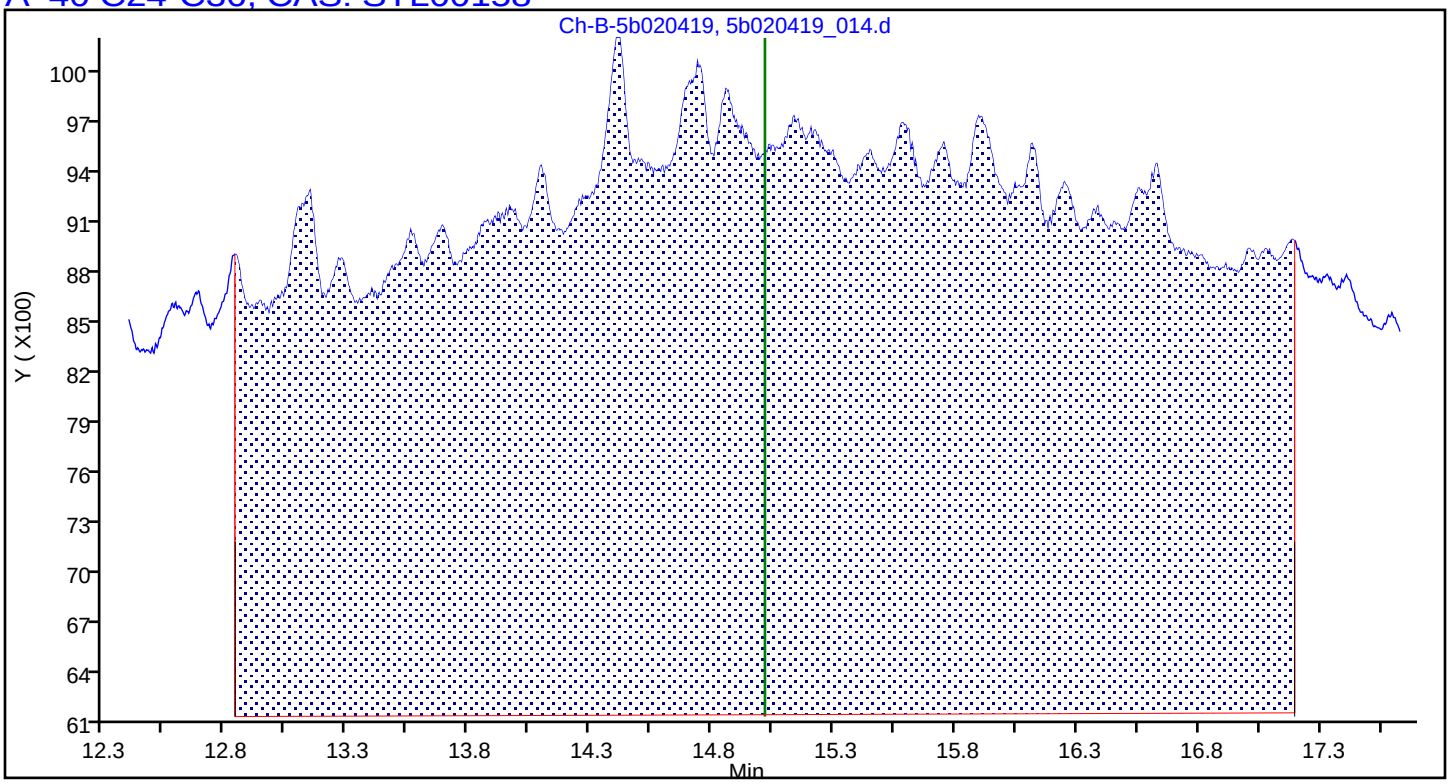


Report Date: 04-Feb-2019 16:17:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_014.d				
Injection Date:	04-Feb-2019 15:51:43	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-3-D	Lab Sample ID:	720-90949-3		
Client ID:	DG-AN9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_016.d
Lims ID: 720-90949-E-4-E
Client ID: DG-AN9S-3.5-4
Sample Type: Client
Inject. Date: 04-Feb-2019 16:50:22 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 105 Name: 720-0056422-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m
Limit Group: DRO
Last Update: 05-Feb-2019 10:52:06 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 10:52:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.702	2.644	0.058	59	NC	
23 n-Decane	3.900	3.862	0.038	1046	NC	
A 21 Stoddard Solvent	4.600	(2.644-6.555)		8053	0.7084	
A 1 C9-C13	4.600	(2.644-6.555)		8053	0.6358	
A 57 C10-C12	4.809	(3.862-5.757)		5621	0.5725	
24 Dodecane	5.712	5.757	-0.045	472	NC	
A 3 C9 - C17	5.951	(2.644-9.259)		14903	1.08	
A 47 C9 - C18	6.240	(2.644-9.835)		16862	1.50	
A 60 C10-C16	6.245	(3.862-8.628)		12907	1.06	
A 25 C9-C19	6.515	(2.644-10.387)		19718	1.43	
A 15 Kerosene	6.515	(2.644-10.387)		19718	1.75	
26 C13		6.555			ND	
$ 27 n-Decanoic Acid (Surr)		7.167			ND	U
A 59 C12-C16	7.193	(5.757-8.628)		7758	0.7902	
A 62 C10-C20	7.391	(3.862-10.921)		27082	2.76	
A 28 C9-C24	7.741	(2.644-12.838)		46600	4.75	
A 29 C9-C25	7.958	(2.644-13.272)		47209	4.81	
A 54 C10-C23	8.125	(3.862-12.388)		41271	4.20	
A 4 C10-C24	8.350	(3.862-12.838)		45174	4.60	
A 16 C10-C25	8.567	(3.862-13.272)		45783	4.66	
45 Hexadecane	8.628	8.628	0.000	537	NC	
A 14 C10-C26	8.776	(3.862-13.690)		52927	5.39	
A 67 C12-C22	8.838	(5.757-11.919)		32696	3.33	
A 12 Unknown Hydrocarbons	9.172	(3.862-14.483)		69576	NC	
A 32 C10-C28	9.172	(3.862-14.483)		69576	7.09	
A 5 Diesel	9.172	(3.862-14.483)		69576	7.09	
A 30 C13-C22	9.237	(6.555-11.919)		32224	3.28	
44 Heptadecane	9.274	9.259	0.015	847	NC	
A 31 C12-C24	9.297	(5.757-12.838)		40025	4.08	
49 n-Octadecane	9.880	9.835	0.045	898	NC	
A 11 Bunker Range Organics (C9-	9.920	(2.644-17.197)		133314	NC	
A 9 Crude Oil Range Organics (	9.305	(2.644-15.967)		457523	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.920	(2.644-17.197)		710073	63.6	
33 C19	10.391	10.387	0.004	398	NC	
A 64 C13-C28	10.519	(6.555-14.483)		63955	6.51	
A 17 C10-C36	9.914	(3.862-15.967)		131888	13.4	
A 68 Crude Oil Range Organics (	10.675	(2.644-18.706)		1136895	NC	
A 13 C9-C40	10.675	(2.644-18.706)		1136895	104.8	
A 58 C16-C24	10.733	(8.628-12.838)		32804	3.34	
61 icosane	10.956	10.921	0.035	721	NC	
A 6 C10-C40	11.284	(3.862-18.706)		1134210	104.7	
$ 34 p-Terphenyl	11.893	11.892	0.001	280983	24.5	
35 n-Docosane		11.919			ND	
A 18 C12-C40	12.231	(5.757-18.706)		1122683	103.7	
36 Tricosane	12.391	12.388	0.003	724	NC	
A 66 C13-C40	12.631	(6.555-18.706)		1067358	98.5	
37 n-Tetracosane	12.828	12.838	-0.010	1699	NC	
A 2 C16-C36 ORO	12.913	(8.628-17.197)		552444	77.4	
38 C25	13.274	13.272	0.002	2092	NC	
A 19 C16-C40	13.667	(8.628-18.706)		1096247	101.1	
46 n-Hexacosane	13.690	13.690	0.000	1652	NC	
A 20 C19-C36	13.792	(10.387-17.197)		400447	51.4	
A 55 C23-C32	14.154	(12.388-15.920)		135292	32.9	
39 n-Octacosane	14.415	14.483	-0.068	6135	NC	
65 C29	14.864	14.860	0.004	9657	NC	
A 7 Motor Oil	15.017	(12.838-17.197)		334812	58.7	
A 40 C24-C36	15.017	(12.838-17.197)		334812	58.7	
A 50 C25-C36	15.234	(13.272-17.197)		330772	61.5	
A 10 C22-C40	15.312	(11.919-18.706)		446543	56.4	
A 41 C23-C40	15.547	(12.388-18.706)		697466	90.2	
A 8 C24-C40	15.772	(12.838-18.706)		695043	93.2	
56 Dotriacontane	15.936	15.920	0.016	21378	NC	
A 51 C28-C40	16.595	(14.483-18.706)		656542	99.7	
A 63 C29-C40	16.783	(14.860-18.706)		639601	108.4	
42 n-Hexatriacontane		17.197			ND	
43 C40		18.706			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

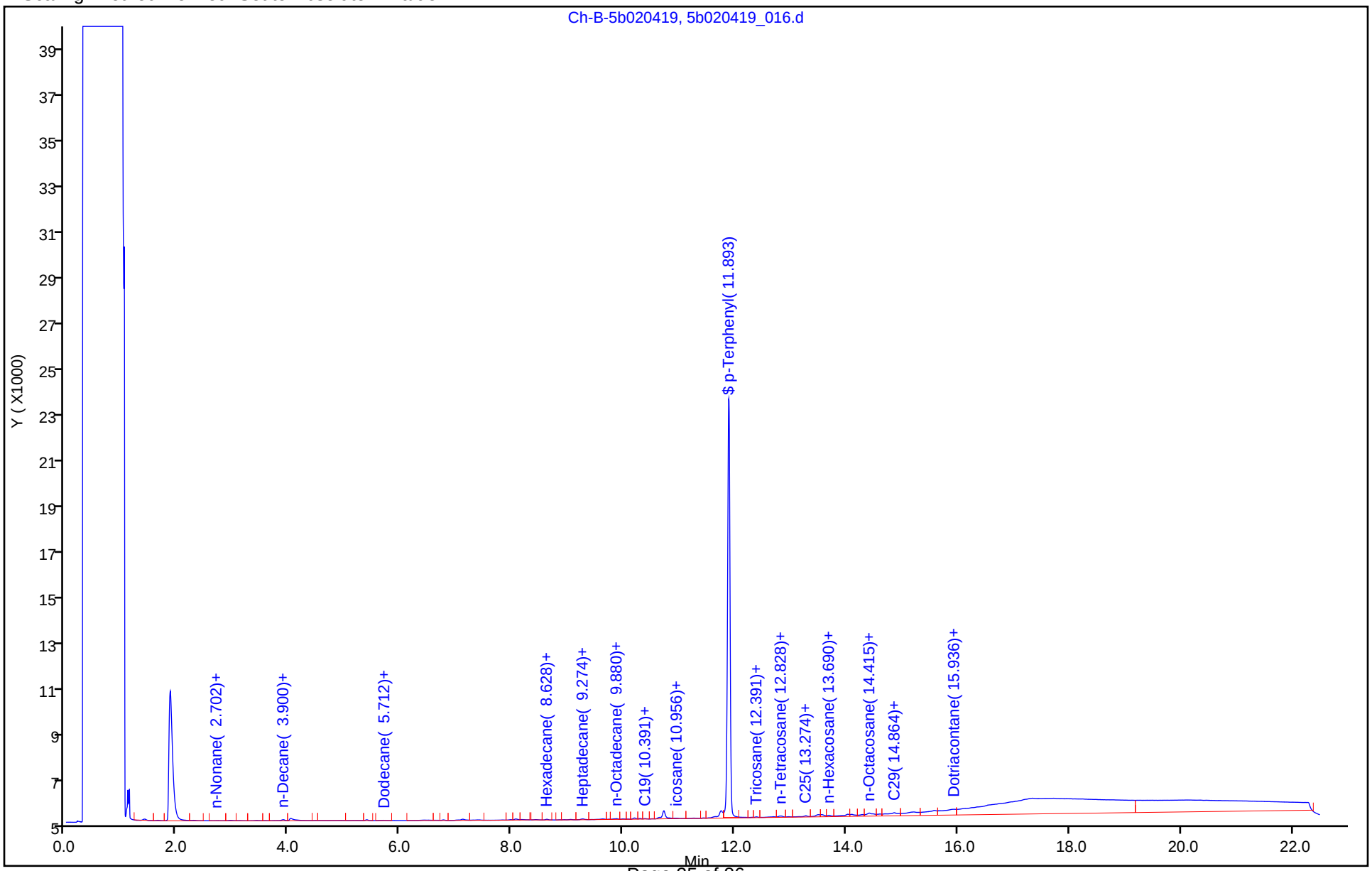
Report Date: 05-Feb-2019 10:52:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_016.d

Injection Date:	04-Feb-2019 16:50:22	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-4-E	Lab Sample ID:	720-90949-4	Worklist Smp#:	16
Client ID:	DG-AN9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_016.d				
Lims ID:	720-90949-E-4-E				
Client ID:	DG-AN9S-3.5-4				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 16:50:22	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 105 Name: 720-0056422-016				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 10:52:06	Calib Date:	04-Feb-2019 09:47:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 10:52:06

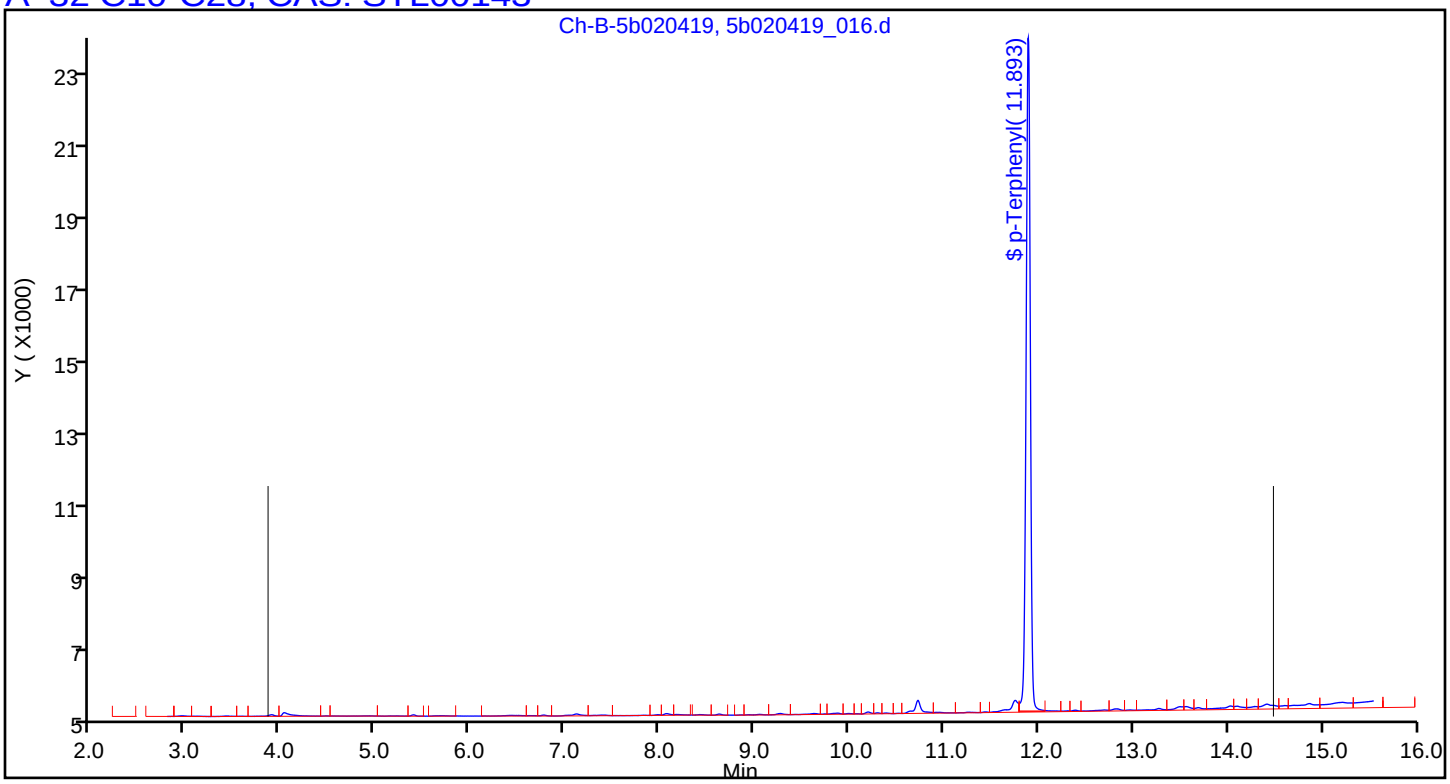
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.5	97.86

Report Date: 05-Feb-2019 10:52:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_016.d				
Injection Date:	04-Feb-2019 16:50:22	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-4-E	Lab Sample ID:	720-90949-4		
Client ID:	DG-AN9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

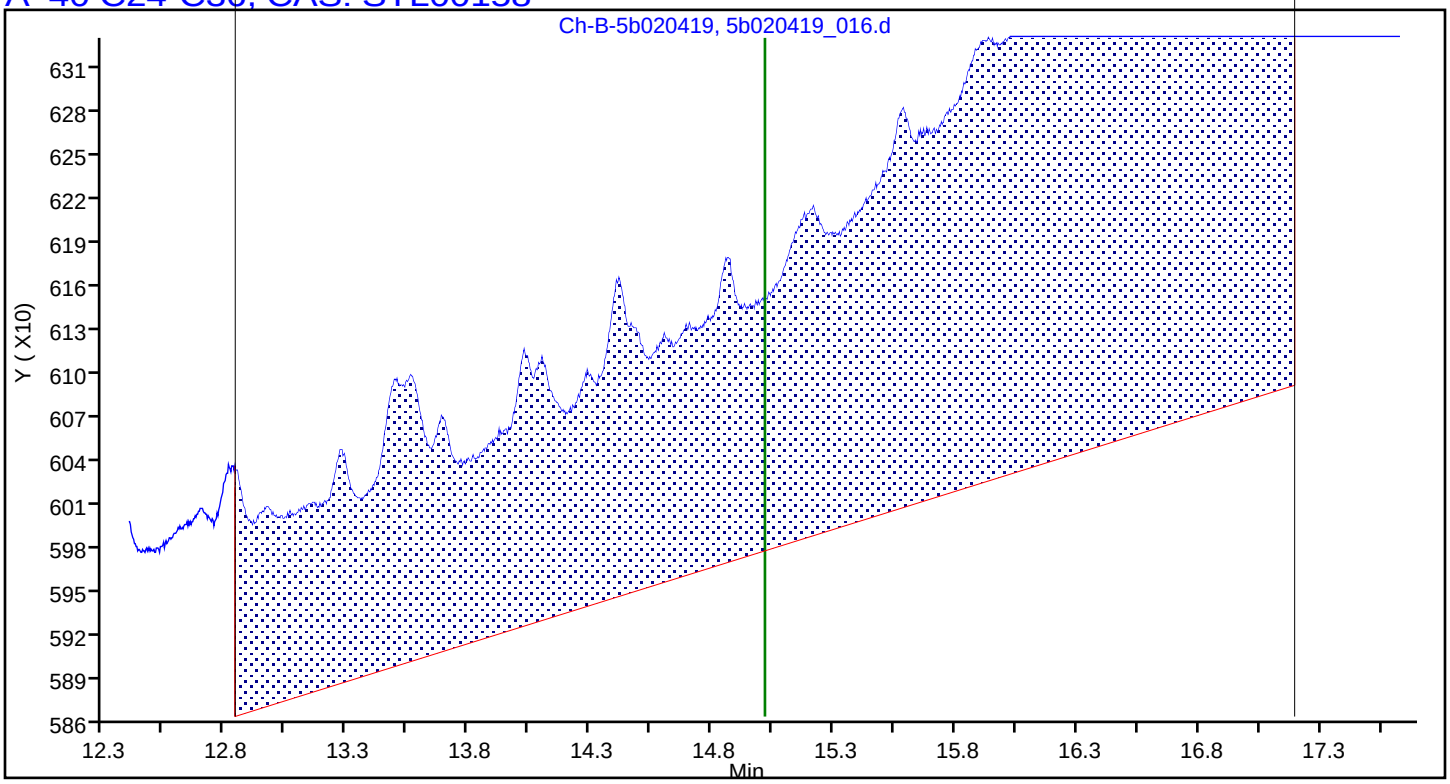


Report Date: 05-Feb-2019 10:52:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_016.d				
Injection Date:	04-Feb-2019 16:50:22	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-4-E	Lab Sample ID:	720-90949-4		
Client ID:	DG-AN9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_017.d
Lims ID: 720-90949-E-5-E
Client ID: DG-AN9S-7-7.5
Sample Type: Client
Inject. Date: 04-Feb-2019 17:19:54 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0056422-017
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m
Limit Group: DRO
Last Update: 05-Feb-2019 10:52:21 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 10:52:21

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.644			ND	
	23 n-Decane	3.895	3.862	0.033	966	NC	
A	21 Stoddard Solvent	4.600	(2.644-6.555)		8400	0.7389	
A	1 C9-C13	4.600	(2.644-6.555)		8400	0.6632	
A	57 C10-C12	4.809	(3.862-5.757)		4799	0.4888	
	24 Dodecane	5.825	5.757	0.068	251	NC	
A	3 C9 - C17	5.951	(2.644-9.259)		20313	1.48	
A	47 C9 - C18	6.240	(2.644-9.835)		30916	2.75	
A	60 C10-C16	6.245	(3.862-8.628)		17905	1.48	
A	25 C9-C19	6.515	(2.644-10.387)		39575	2.87	
A	15 Kerosene	6.515	(2.644-10.387)		39575	3.52	
	26 C13	6.517	6.555	-0.038	951	NC	
$	27 n-Decanoic Acid (Surr)		7.167			ND	U
A	59 C12-C16	7.193	(5.757-8.628)		14265	1.45	
A	62 C10-C20	7.391	(3.862-10.921)		56701	5.78	
A	28 C9-C24	7.741	(2.644-12.838)		113301	11.5	
A	29 C9-C25	7.958	(2.644-13.272)		120779	12.3	
A	54 C10-C23	8.125	(3.862-12.388)		98486	10.0	
A	4 C10-C24	8.350	(3.862-12.838)		112027	11.4	
A	16 C10-C25	8.567	(3.862-13.272)		119505	12.2	
	45 Hexadecane	8.628	8.628	0.000	1134	NC	
A	14 C10-C26	8.776	(3.862-13.690)		132198	13.5	
A	67 C12-C22	8.838	(5.757-11.919)		82035	8.36	
A	12 Unknown Hydrocarbons	9.172	(3.862-14.483)		150446	NC	
A	32 C10-C28	9.172	(3.862-14.483)		150446	15.3	
A	5 Diesel	9.172	(3.862-14.483)		150446	15.3	
A	30 C13-C22	9.237	(6.555-11.919)		79500	8.10	
	44 Heptadecane	9.268	9.259	0.009	2045	NC	
A	31 C12-C24	9.297	(5.757-12.838)		108387	11.0	
	49 n-Octadecane	9.878	9.835	0.043	2393	NC	
A	11 Bunker Range Organics (C9-	9.920	(2.644-17.197)		199035	NC	
A	9 Crude Oil Range Organics (	9.310	(2.644-15.977)		673841	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.920	(2.644-17.197)		887569	79.5	
33 C19	10.391	10.387	0.004	2316	NC	
A 64 C13-C28	10.519	(6.555-14.483)		144271	14.7	
A 17 C10-C36	9.919	(3.862-15.977)		197761	20.1	
A 68 Crude Oil Range Organics (	10.675	(2.644-18.706)		1252453	NC	
A 13 C9-C40	10.675	(2.644-18.706)		1252453	119.9	
A 58 C16-C24	10.733	(8.628-12.838)		95256	9.70	
61 icosane	10.956	10.921	0.035	3938	NC	
A 6 C10-C40	11.284	(3.862-18.706)		1249532	119.8	
$ 34 p-Terphenyl	11.893	11.892	0.001	304663	26.5	
35 n-Docosane		11.919			ND	
A 18 C12-C40	12.231	(5.757-18.706)		1236533	118.6	
36 Tricosane	12.389	12.388	0.001	3402	NC	
A 66 C13-C40	12.631	(6.555-18.706)		1077463	99.8	
37 n-Tetracosane	12.797	12.838	-0.041	5412	NC	
A 2 C16-C36 ORO	12.913	(8.628-17.197)		552623	77.5	
38 C25	13.275	13.272	0.003	2732	NC	
A 19 C16-C40	13.667	(8.628-18.706)		1173322	111.2	
46 n-Hexacosane		13.690			ND	
A 20 C19-C36	13.792	(10.387-17.197)		408595	52.4	
A 55 C23-C32	14.154	(12.388-15.920)		157942	38.5	
39 n-Octacosane	14.414	14.483	-0.069	5998	NC	
65 C29	14.864	14.860	0.004	3671	NC	
A 7 Motor Oil	15.017	(12.838-17.197)		297882	52.2	
A 40 C24-C36	15.017	(12.838-17.197)		297882	52.2	
A 50 C25-C36	15.234	(13.272-17.197)		283344	52.7	
A 10 C22-C40	15.312	(11.919-18.706)		337625	42.6	
A 41 C23-C40	15.547	(12.388-18.706)		598730	77.4	
A 8 C24-C40	15.772	(12.838-18.706)		584624	78.4	
56 Dotriacontane	15.966	15.920	0.046	8733	NC	
A 51 C28-C40	16.595	(14.483-18.706)		521592	71.6	
A 63 C29-C40	16.783	(14.860-18.706)		504065	76.5	
42 n-Hexatriacontane		17.197			ND	
43 C40		18.706			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

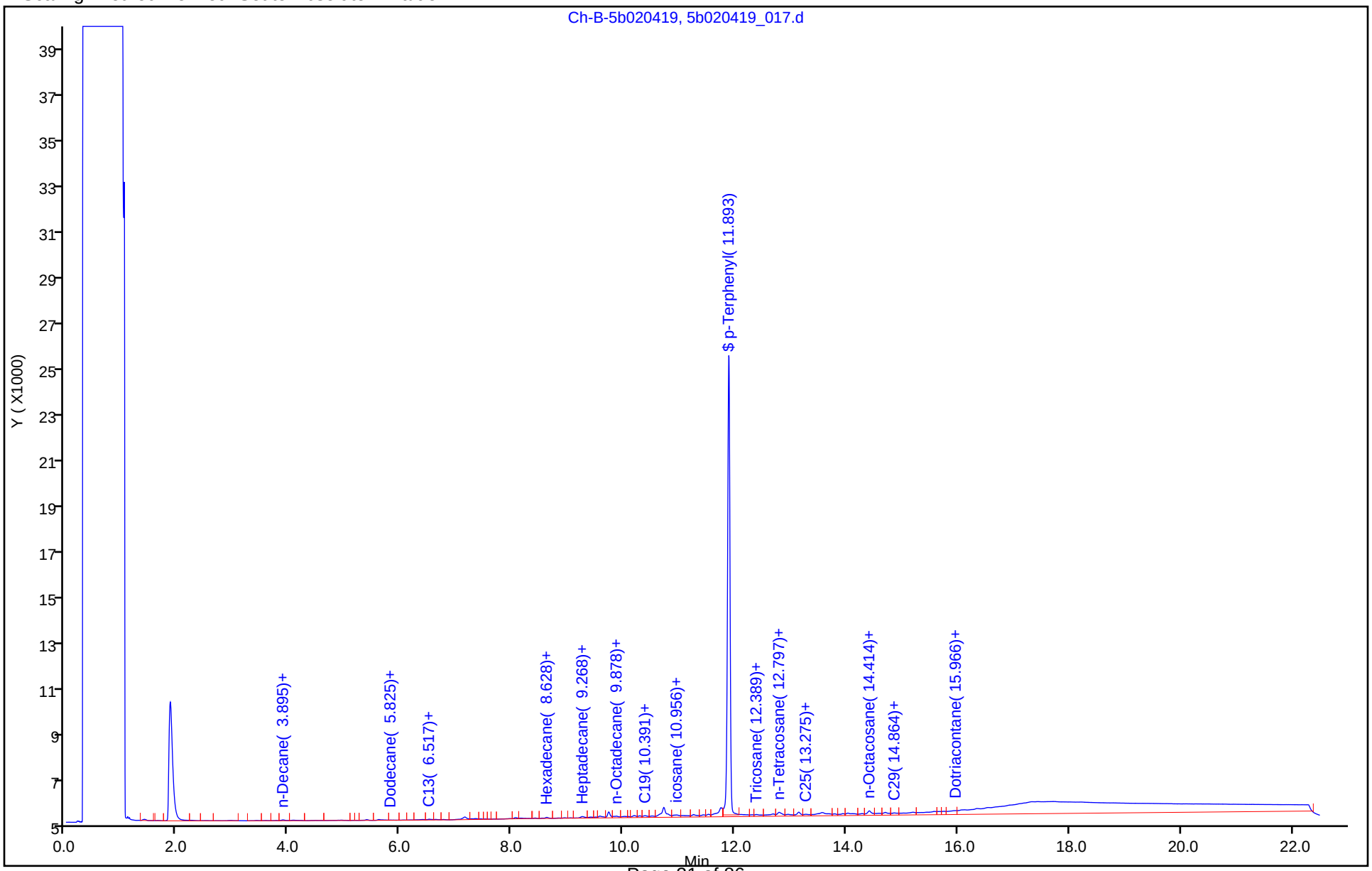
Report Date: 05-Feb-2019 10:52:22 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_017.d

Injection Date:	04-Feb-2019 17:19:54	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-5-E	Lab Sample ID:	720-90949-5	Worklist Smp#:	17
Client ID:	DG-AN9S-7-7.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_017.d				
Lims ID:	720-90949-E-5-E				
Client ID:	DG-AN9S-7-7.5				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 17:19:54	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0056422-017				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 10:52:21	Calib Date:	04-Feb-2019 09:47:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 10:52:21

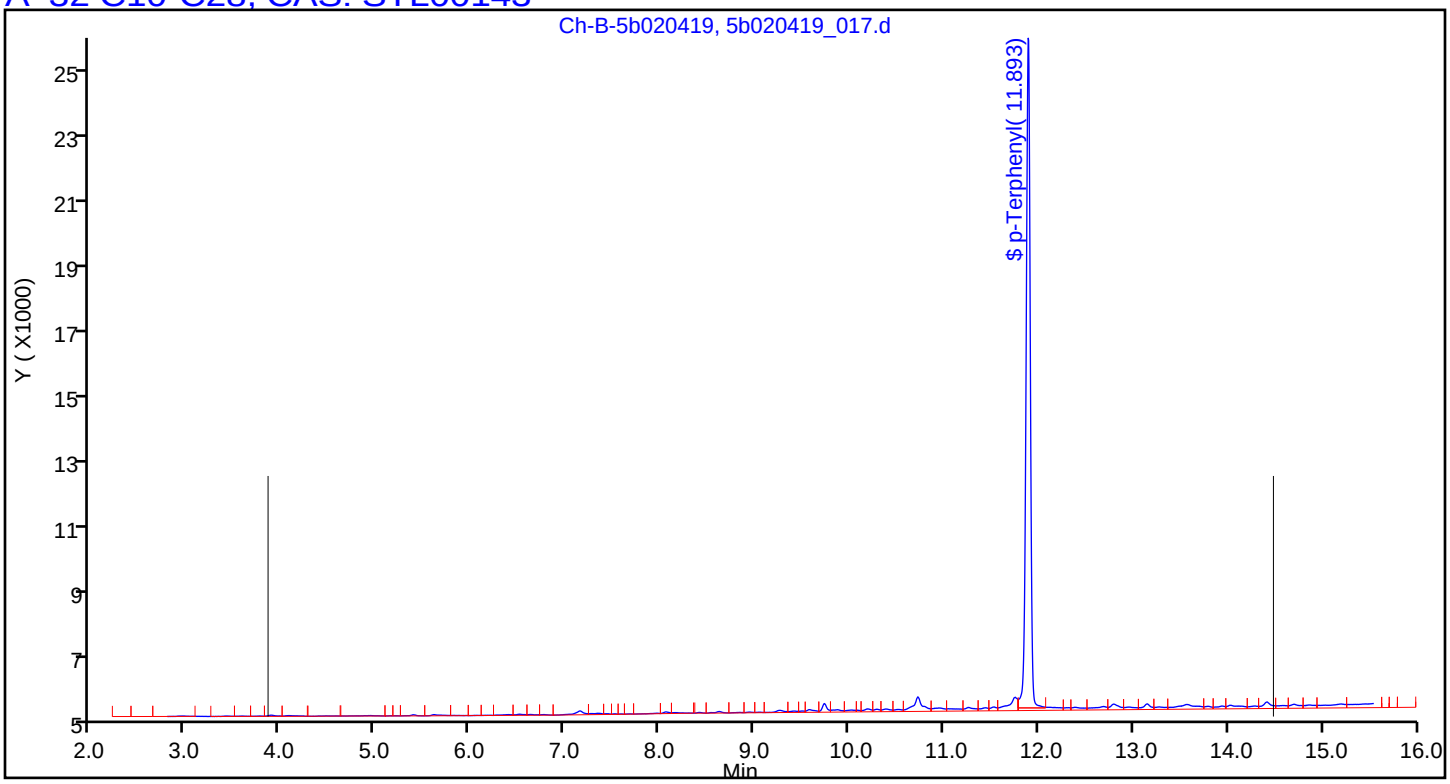
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.5	106.10

Report Date: 05-Feb-2019 10:52:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_017.d				
Injection Date:	04-Feb-2019 17:19:54	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-5-E	Lab Sample ID:	720-90949-5		
Client ID:	DG-AN9S-7-7.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

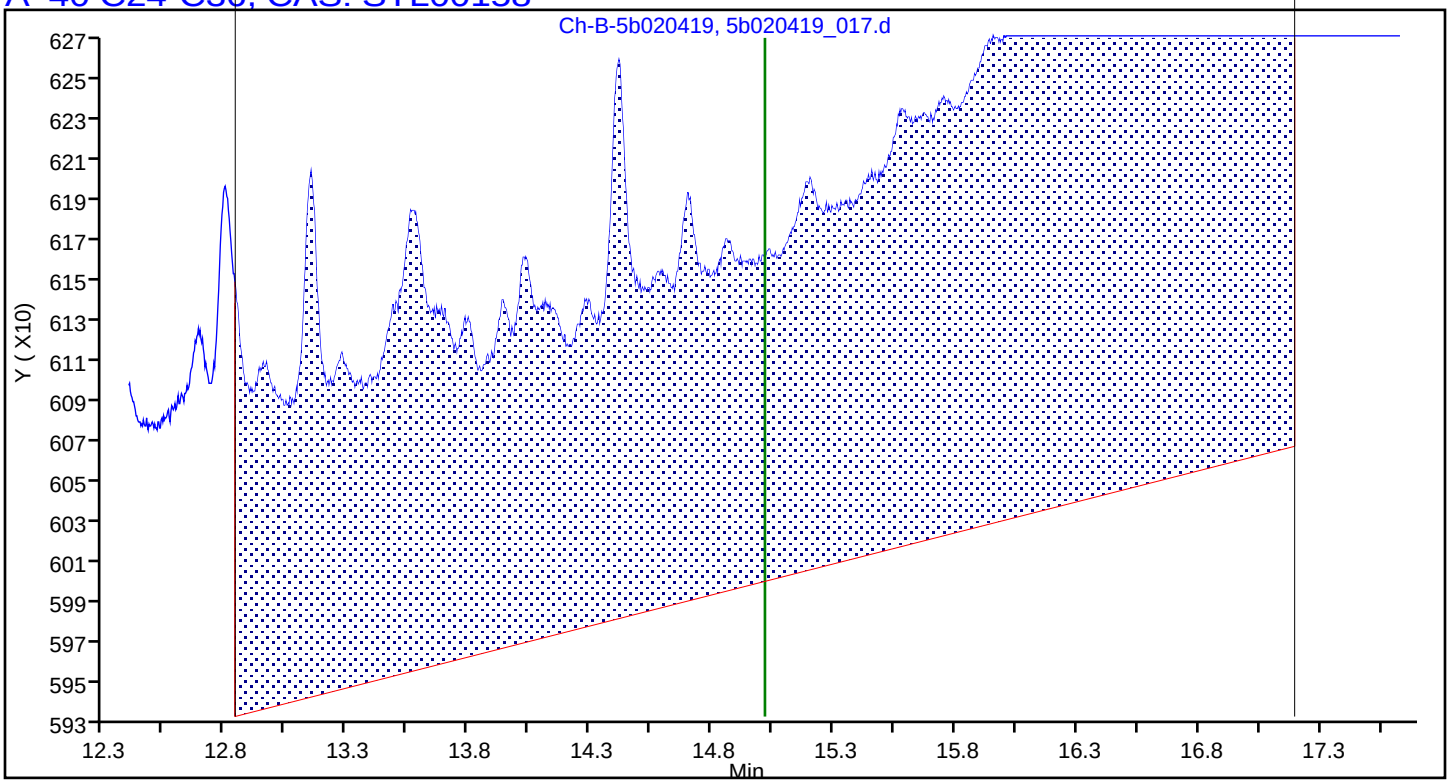


Report Date: 05-Feb-2019 10:52:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_017.d				
Injection Date:	04-Feb-2019 17:19:54	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-5-E	Lab Sample ID:	720-90949-5		
Client ID:	DG-AN9S-7-7.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\5b013019_021.d
Lims ID: 720-90949-E-6-H
Client ID: DG-AL9S-0.5-1
Sample Type: Client
Inject. Date: 30-Jan-2019 19:12:51 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 100 Name: 720-0056360-021
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\DRO5B.m
Limit Group: DRO
Last Update: 31-Jan-2019 12:13:05 Calib Date: 30-Jan-2019 20:11:05
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\5b013019_023.d

Column 1 : Det: GC FID1A
Process Host: CTX0303

First Level Reviewer: luj Date: 31-Jan-2019 12:13:05

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.716	2.661	0.055	991	NC	
	23 n-Decane	3.883	3.882	0.001	1686	NC	
A	21 Stoddard Solvent	4.617	(2.661-6.572)		71734	6.31	
A	1 C9-C13	4.617	(2.661-6.572)		71734	5.66	
A	57 C10-C12	4.827	(3.882-5.773)		35717	3.64	
	24 Dodecane	5.764	5.773	-0.009	2017	NC	
A	3 C9 - C17	5.968	(2.661-9.275)		141227	10.1	
A	47 C9 - C18	6.257	(2.661-9.854)		223473	19.9	
A	60 C10-C16	6.265	(3.882-8.648)		113201	9.19	
A	25 C9-C19	6.535	(2.661-10.410)		275244	19.7	
A	15 Kerosene	6.535	(2.661-10.410)		275244	24.5	
	26 C13		6.572			ND	
$	27 n-Decanoic Acid (Surr)		7.178			ND	U
A	59 C12-C16	7.210	(5.773-8.648)		79501	8.10	
A	62 C10-C20	7.413	(3.882-10.943)		479123	48.8	
A	28 C9-C24	7.763	(2.661-12.864)		1504034	153.2	
A	29 C9-C25	7.980	(2.661-13.299)		1779290	181.2	
A	54 C10-C23	8.147	(3.882-12.413)		1145006	116.6	
A	4 C10-C24	8.373	(3.882-12.864)		1492838	152.0	
A	16 C10-C25	8.591	(3.882-13.299)		1768094	180.1	
	45 Hexadecane	8.646	8.648	-0.002	2180	NC	
A	14 C10-C26	8.800	(3.882-13.718)		2091666	213.0	
A	67 C12-C22	8.858	(5.773-11.943)		828508	84.4	
A	12 Unknown Hydrocarbons	9.197	(3.882-14.512)		2861971	NC	
A	32 C10-C28	9.197	(3.882-14.512)		2861971	291.5	
A	5 Diesel	9.197	(3.882-14.512)		2861971	291.5	
A	30 C13-C22	9.258	(6.572-11.943)		823800	83.9	
	44 Heptadecane	9.294	9.275	0.019	12981	NC	
A	31 C12-C24	9.318	(5.773-12.864)		1459138	148.6	
	49 n-Octadecane		9.854			ND	
A	11 Bunker Range Organics (C9-	9.946	(2.661-17.230)		6505102	NC	
A	9 Crude Oil Range Organics (	9.946	(2.661-17.230)		6410281	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.946	(2.661-17.230)		6410281	574.3	
33 C19	10.415	10.410	0.005	26222	NC	
A 64 C13-C28	10.542	(6.572-14.512)		2823563	287.6	
A 17 C10-C36	10.556	(3.882-17.230)		6493906	661.4	
A 68 Crude Oil Range Organics (	10.713	(2.661-18.765)		7590043	NC	
A 13 C9-C40	10.713	(2.661-18.765)		7590043	950.4	
A 58 C16-C24	10.756	(8.648-12.864)		1381817	140.7	
61 icosane	10.940	10.943	-0.003	33338	NC	
A 6 C10-C40	11.324	(3.882-18.765)		7577685	949.0	
$ 34 p-Terphenyl	11.910	11.917	-0.007	246076	21.4	
35 n-Docosane	12.032	11.943	0.089	52096	NC	
A 18 C12-C40	12.269	(5.773-18.765)		7528665	943.1	
36 Tricosane	12.439	12.413	0.026	91163	NC	
A 66 C13-C40	12.669	(6.572-18.765)		7179684	900.9	
37 n-Tetracosane	12.858	12.864	-0.006	107713	NC	
A 2 C16-C36 ORO	12.939	(8.648-17.230)		5012398	702.6	
38 C25	13.298	13.299	-0.001	66181	NC	
A 19 C16-C40	13.707	(8.648-18.765)		7366816	924.0	
46 n-Hexacosane	13.710	13.718	-0.008	83680	NC	
A 20 C19-C36	13.820	(10.410-17.230)		4420649	566.9	
A 55 C23-C32	14.183	(12.413-15.953)		3181960	774.7	
39 n-Octacosane	14.429	14.512	-0.083	280421	NC	
65 C29	14.884	14.890	-0.006	115145	NC	
A 7 Motor Oil	15.047	(12.864-17.230)		4130848	723.7	
A 40 C24-C36	15.047	(12.864-17.230)		4130848	723.7	
A 50 C25-C36	15.264	(13.299-17.230)		3821068	710.0	
A 10 C22-C40	15.354	(11.943-18.765)		5448973	687.8	
A 41 C23-C40	15.589	(12.413-18.765)		5437454	703.3	
A 8 C24-C40	15.815	(12.864-18.765)		5164704	692.4	
56 Dotriacontane	15.923	15.953	-0.030	139807	NC	
A 51 C28-C40	16.639	(14.512-18.765)		3789232	752.2	
A 63 C29-C40	16.828	(14.890-18.765)		3382348	753.3	
42 n-Hexatriacontane	17.217	17.230	-0.013	1361850	NC	
43 C40		18.765			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

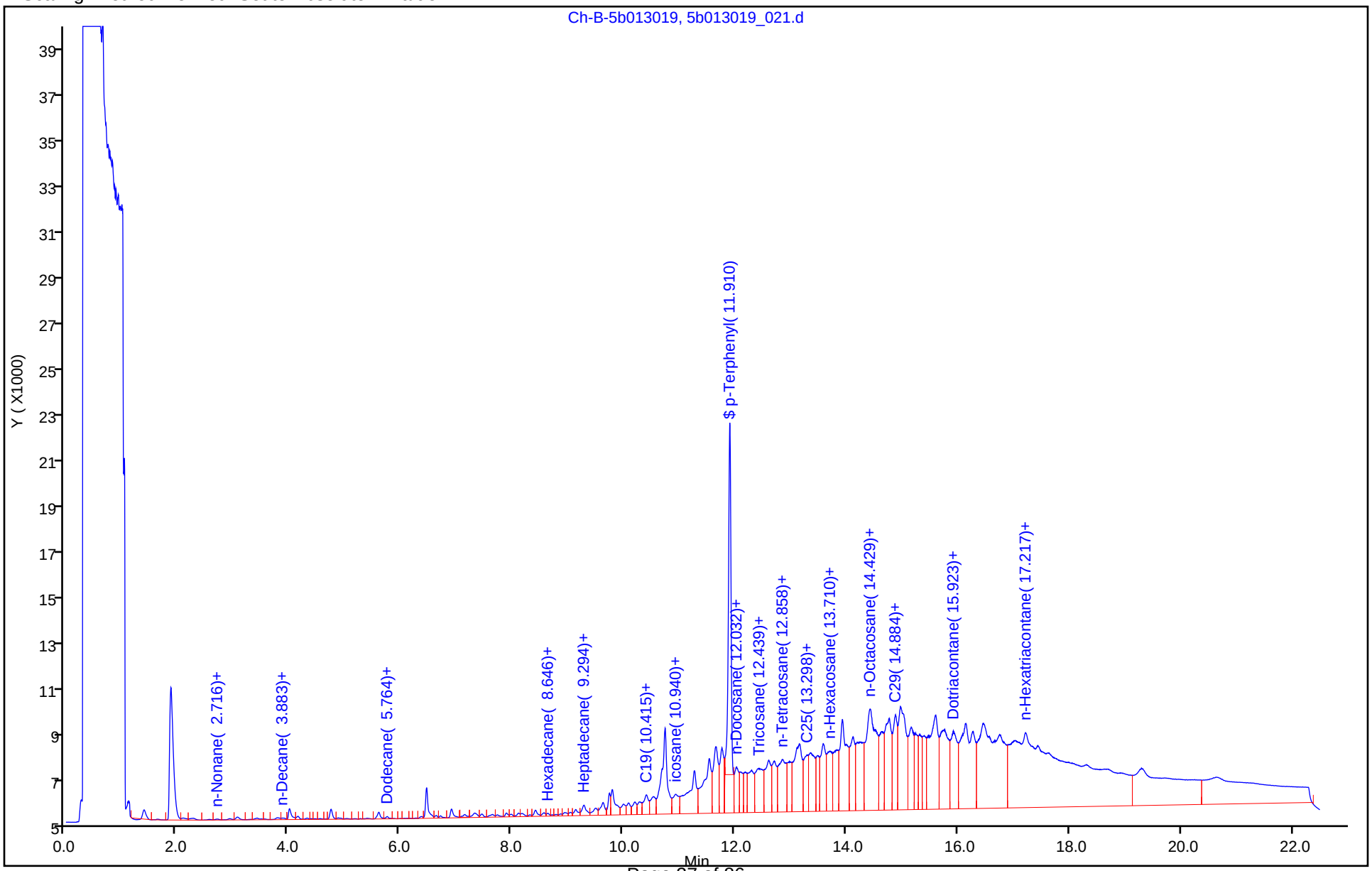
Report Date: 31-Jan-2019 12:13:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\5b013019_021.d

Injection Date:	30-Jan-2019 19:12:51	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-6-H	Lab Sample ID:	720-90949-6	Worklist Smp#:	21
Client ID:	DG-AL9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\5b013019_021.d				
Lims ID:	720-90949-E-6-H				
Client ID:	DG-AL9S-0.5-1				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 19:12:51	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 100 Name: 720-0056360-021				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	31-Jan-2019 12:13:05	Calib Date:	30-Jan-2019 20:11:05		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\5b013019_023.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0303				

First Level Reviewer: luj Date: 31-Jan-2019 12:13:05

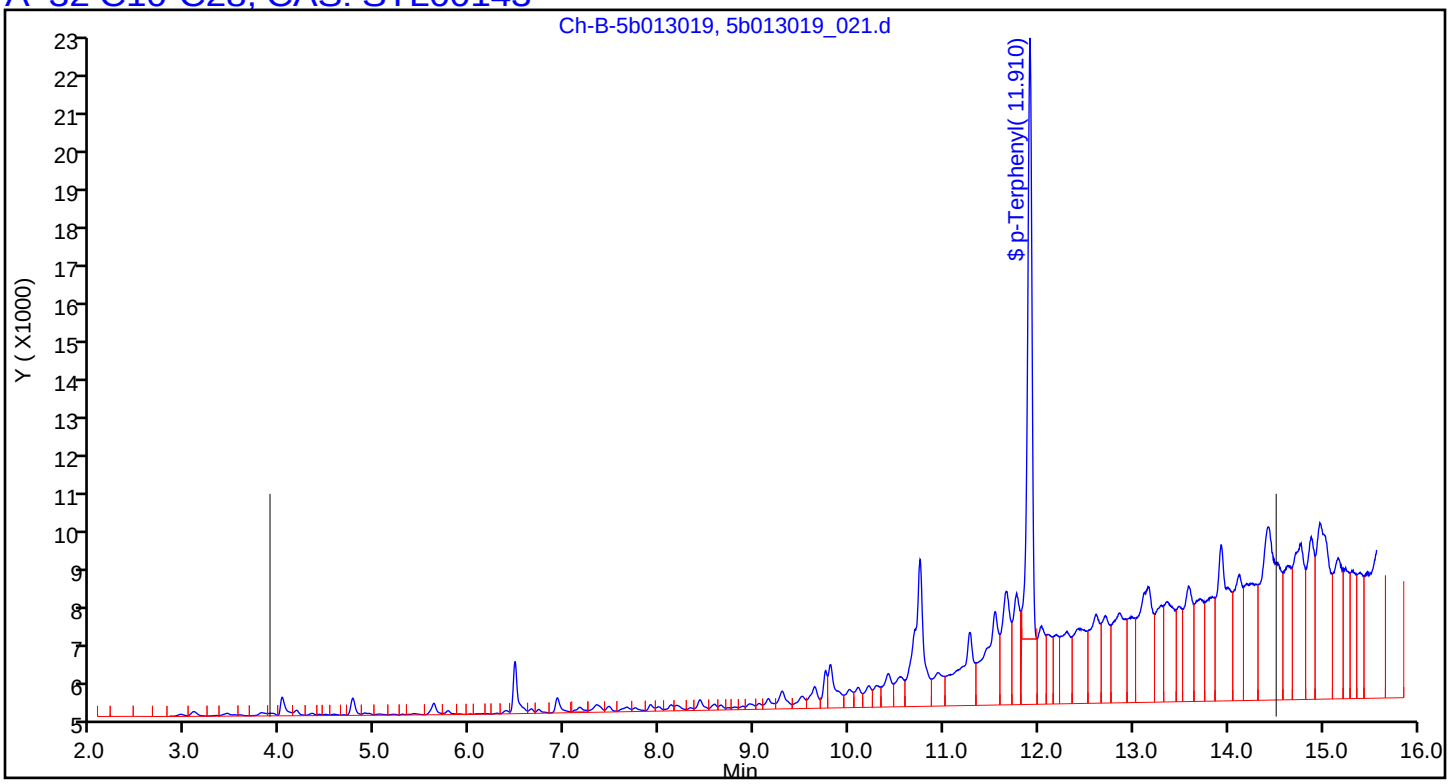
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	21.4	85.70

Report Date: 31-Jan-2019 12:13:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\5b013019_021.d				
Injection Date:	30-Jan-2019 19:12:51	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-6-H	Lab Sample ID:	720-90949-6		
Client ID:	DG-AL9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

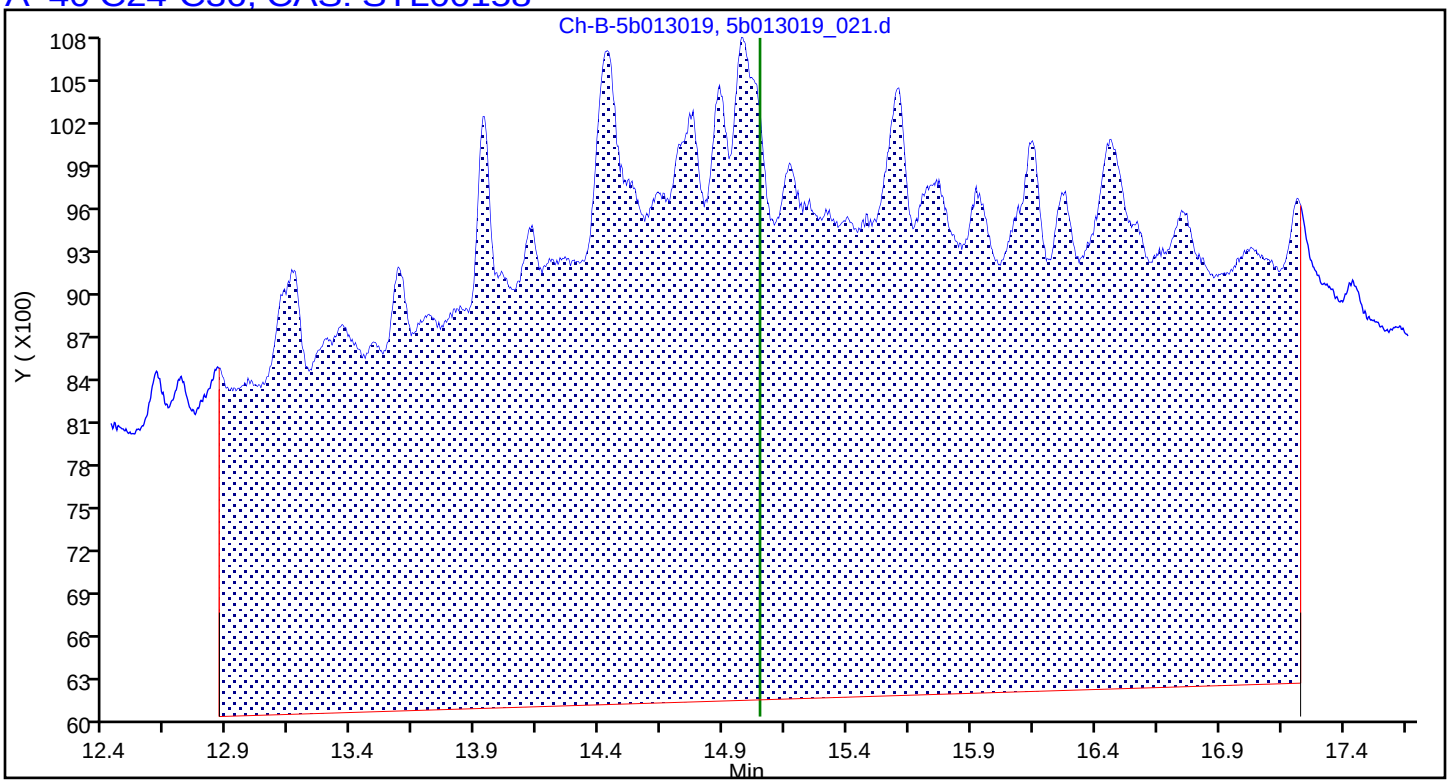


Report Date: 31-Jan-2019 12:13:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190130-56360.b\5b013019_021.d				
Injection Date:	30-Jan-2019 19:12:51	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-6-H	Lab Sample ID:	720-90949-6		
Client ID:	DG-AL9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_015.d
Lims ID: 720-90949-E-7-E
Client ID: DG-AL9S-3.5-4
Sample Type: Client
Inject. Date: 04-Feb-2019 16:21:04 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 104 Name: 720-0056422-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m
Limit Group: DRO
Last Update: 05-Feb-2019 10:50:46 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 10:50:46

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.671	2.644	0.027	1905	NC	
	23 n-Decane	3.868	3.862	0.006	3969	NC	
A	21 Stoddard Solvent	4.600	(2.644-6.555)		121810	10.7	
A	1 C9-C13	4.600	(2.644-6.555)		121810	9.62	
A	57 C10-C12	4.809	(3.862-5.757)		66595	6.78	
	24 Dodecane	5.752	5.757	-0.005	7706	NC	
A	3 C9 - C17	5.951	(2.644-9.259)		433706	31.6	
A	47 C9 - C18	6.240	(2.644-9.835)		639717	57.0	
A	60 C10-C16	6.245	(3.862-8.628)		334343	27.6	
A	25 C9-C19	6.515	(2.644-10.387)		746475	54.1	
A	15 Kerosene	6.515	(2.644-10.387)		746475	66.3	
	26 C13	6.507	6.555	-0.048	13692	NC	
$	27 n-Decanoic Acid (Surr)		7.167			ND	U
A	59 C12-C16	7.193	(5.757-8.628)		275454	28.1	
A	62 C10-C20	7.391	(3.862-10.921)		1067419	108.7	
A	28 C9-C24	7.741	(2.644-12.838)		2429874	247.5	
A	29 C9-C25	7.958	(2.644-13.272)		2922760	297.7	
A	54 C10-C23	8.125	(3.862-12.388)		2173852	221.4	
A	4 C10-C24	8.350	(3.862-12.838)		2410537	245.5	
A	16 C10-C25	8.567	(3.862-13.272)		2903423	295.7	
	45 Hexadecane	8.628	8.628	0.000	11302	NC	
A	14 C10-C26	8.776	(3.862-13.690)		3140229	319.8	
A	67 C12-C22	8.838	(5.757-11.919)		1686458	171.8	
A	12 Unknown Hydrocarbons	9.172	(3.862-14.483)		3934121	NC	
A	32 C10-C28	9.172	(3.862-14.483)		3934121	400.7	
A	5 Diesel	9.172	(3.862-14.483)		3934121	400.7	
A	30 C13-C22	9.237	(6.555-11.919)		1656566	168.7	
	44 Heptadecane	9.273	9.259	0.014	64596	NC	
A	31 C12-C24	9.297	(5.757-12.838)		2351648	239.5	
	49 n-Octadecane	9.831	9.835	-0.004	38304	NC	
A	11 Bunker Range Organics (C9-	9.920	(2.644-17.197)		8231910	NC	
A	9 Crude Oil Range Organics (	9.920	(2.644-17.197)		7484187	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.920	(2.644-17.197)		7484187	670.6	
33 C19	10.392	10.387	0.005	84309	NC	
A 64 C13-C28	10.519	(6.555-14.483)		3845340	391.7	
A 17 C10-C36	10.529	(3.862-17.197)		8212573	836.5	
A 68 Crude Oil Range Organics (	10.675	(2.644-18.706)		8388140	NC	
A 13 C9-C40	10.675	(2.644-18.706)		8388140	1055.0	
A 58 C16-C24	10.733	(8.628-12.838)		2087496	212.6	
61 icosane	10.927	10.921	0.006	61666	NC	
A 6 C10-C40	11.284	(3.862-18.706)		8365604	1052.3	
$ 34 p-Terphenyl	11.890	11.892	-0.002	222550	19.4	
35 n-Docosane		11.919			ND	
A 18 C12-C40	12.231	(5.757-18.706)		8279203	1041.5	
36 Tricosane	12.388	12.388	0.000	117816	NC	
A 66 C13-C40	12.631	(6.555-18.706)		7501581	943.2	
37 n-Tetracosane	12.844	12.838	0.006	175231	NC	
A 2 C16-C36 ORO	12.913	(8.628-17.197)		4913719	688.8	
38 C25	13.270	13.272	-0.002	151103	NC	
A 19 C16-C40	13.667	(8.628-18.706)		7924607	997.2	
46 n-Hexacosane	13.690	13.690	0.000	110759	NC	
A 20 C19-C36	13.792	(10.387-17.197)		5342429	685.1	
A 55 C23-C32	14.154	(12.388-15.920)		3264456	794.7	
39 n-Octacosane	14.484	14.483	0.001	99514	NC	
65 C29	14.862	14.860	0.002	177738	NC	
A 7 Motor Oil	15.017	(12.838-17.197)		4087743	716.1	
A 40 C24-C36	15.017	(12.838-17.197)		4276893	749.3	M
A 50 C25-C36	15.234	(13.272-17.197)		3754662	697.7	
A 10 C22-C40	15.312	(11.919-18.706)		5202062	656.7	
A 41 C23-C40	15.547	(12.388-18.706)		5123500	662.7	
A 8 C24-C40	15.772	(12.838-18.706)		4803701	644.0	
56 Dotriacontane	15.988	15.920	0.068	60581	NC	
A 51 C28-C40	16.595	(14.483-18.706)		3382898	667.6	
A 63 C29-C40	16.783	(14.860-18.706)		2999868	663.3	
42 n-Hexatriacontane		17.197			ND	
43 C40		18.706			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

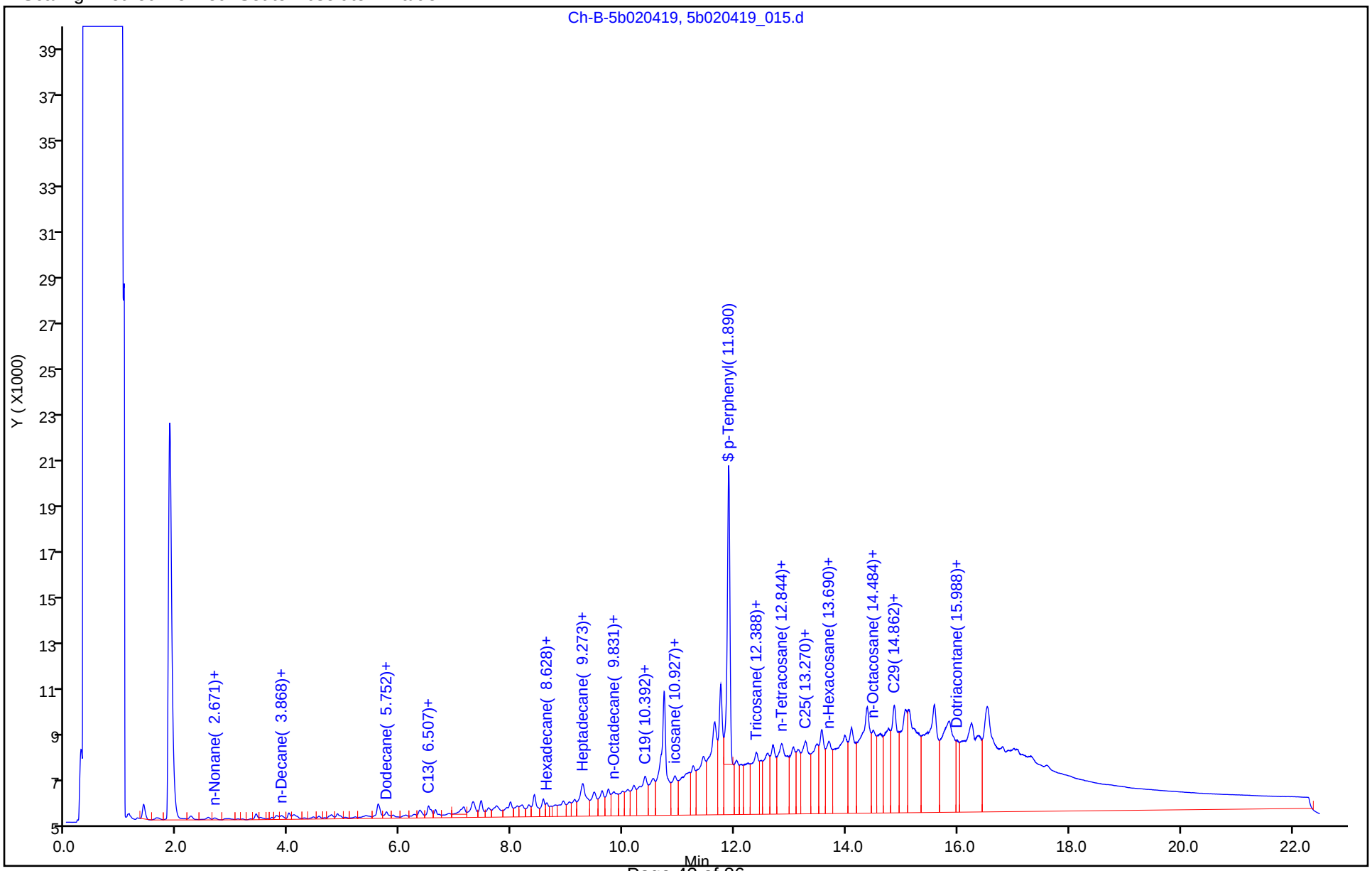
Report Date: 05-Feb-2019 10:50:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_015.d

Injection Date:	04-Feb-2019 16:21:04	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-7-E	Lab Sample ID:	720-90949-7	Worklist Smp#:	15
Client ID:	DG-AL9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_015.d				
Lims ID:	720-90949-E-7-E				
Client ID:	DG-AL9S-3.5-4				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 16:21:04	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 104 Name: 720-0056422-015				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 10:50:46	Calib Date:	04-Feb-2019 09:47:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 10:50:46

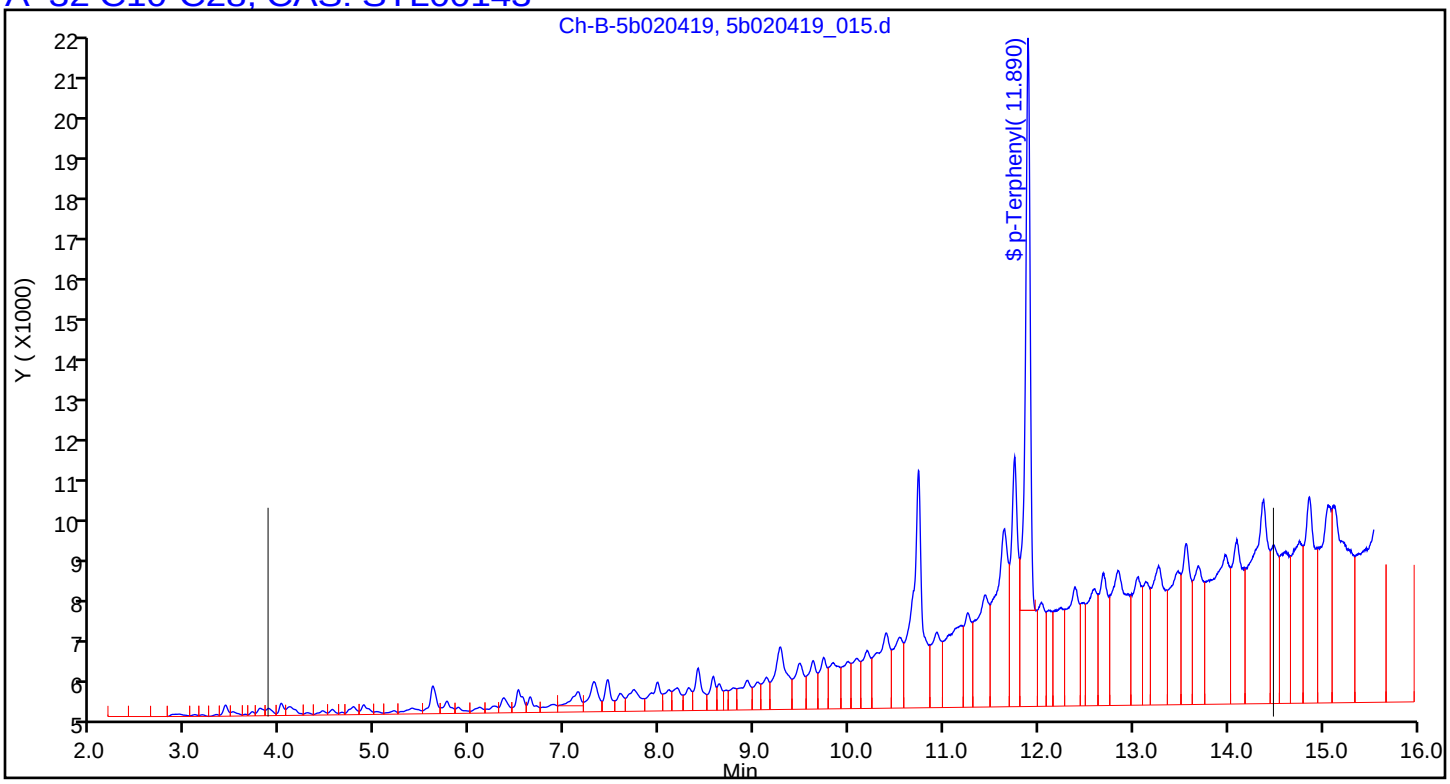
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	19.4	77.51

Report Date: 05-Feb-2019 10:50:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_015.d				
Injection Date:	04-Feb-2019 16:21:04	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-7-E	Lab Sample ID:	720-90949-7		
Client ID:	DG-AL9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

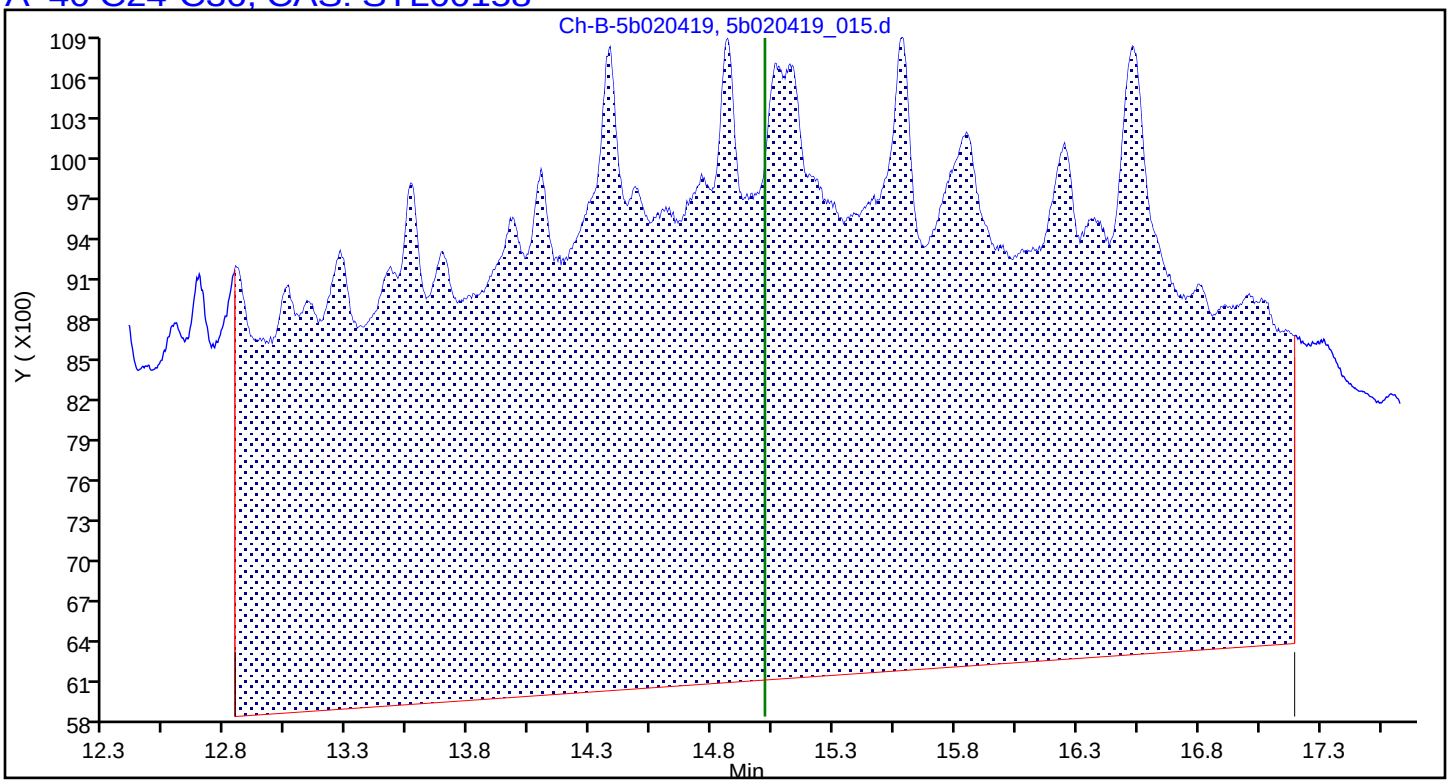


Report Date: 05-Feb-2019 10:50:49 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_015.d				
Injection Date:	04-Feb-2019 16:21:04	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-7-E	Lab Sample ID:	720-90949-7		
Client ID:	DG-AL9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

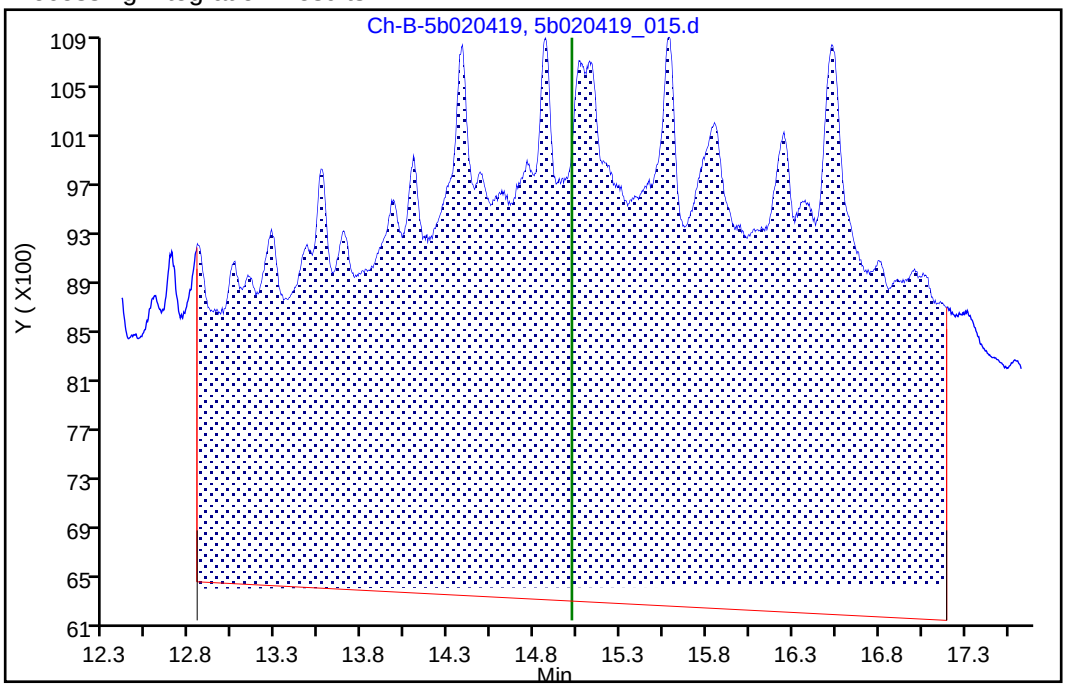
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_015.d				
Injection Date:	04-Feb-2019 16:21:04	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-7-E	Lab Sample ID:	720-90949-7		
Client ID:	DG-AL9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.017, CAS: STL00158

Signal: 1

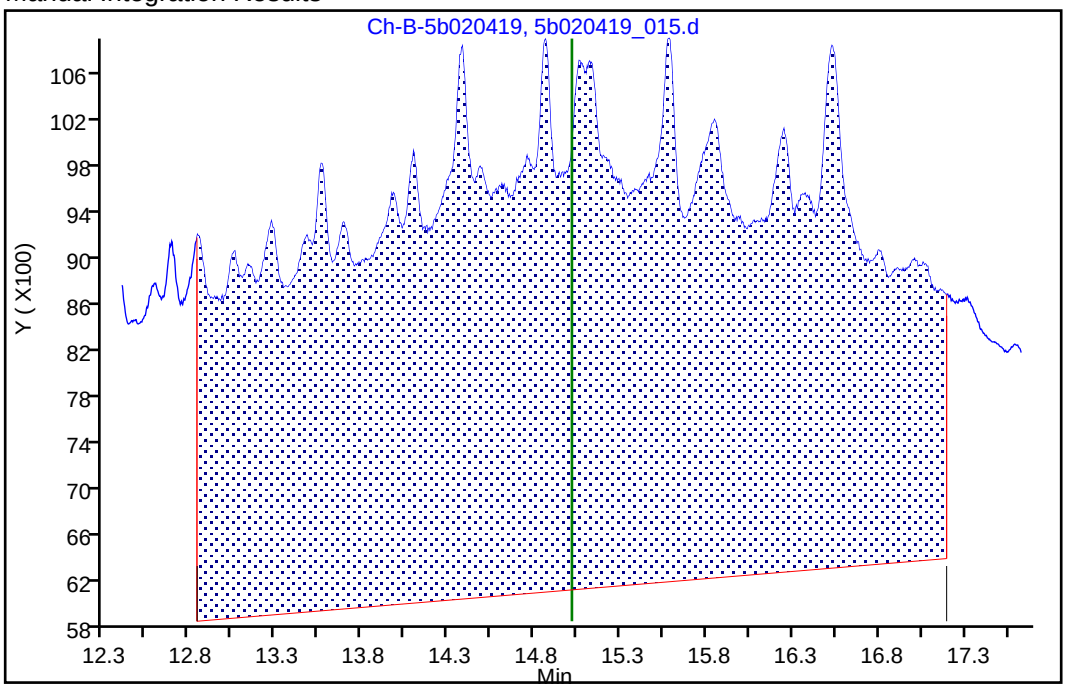
Processing Integration Results

RT: 15.02
Response: 4087743
Amount: 716.1145



Manual Integration Results

RT: 15.02
Response: 4276893
Amount: 749.2509



Reviewer: luj, 05-Feb-2019 10:50:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_018.d
Lims ID: 720-90949-E-8-E
Client ID: DG-AL9S-7-7.5
Sample Type: Client
Inject. Date: 04-Feb-2019 17:49:21 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0056422-018
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m
Limit Group: DRO
Last Update: 05-Feb-2019 10:53:02 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 10:53:02

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.715	2.644	0.071	180	NC	
	23 n-Decane	3.896	3.862	0.034	1080	NC	
A	21 Stoddard Solvent	4.600	(2.644-6.555)		10468	0.9208	
A	1 C9-C13	4.600	(2.644-6.555)		10468	0.8265	
A	57 C10-C12	4.809	(3.862-5.757)		7130	0.7262	
	24 Dodecane		5.757			ND	
A	3 C9 - C17	5.951	(2.644-9.259)		21103	1.54	
A	47 C9 - C18	6.240	(2.644-9.835)		29900	2.66	
A	60 C10-C16	6.245	(3.862-8.628)		17115	1.41	
A	25 C9-C19	6.515	(2.644-10.387)		35114	2.55	
A	15 Kerosene	6.515	(2.644-10.387)		35114	3.12	
	26 C13	6.518	6.555	-0.037	480	NC	
$	27 n-Decanoic Acid (Surr)		7.167			ND	U
A	59 C12-C16	7.193	(5.757-8.628)		10828	1.10	
A	62 C10-C20	7.391	(3.862-10.921)		46411	4.73	
A	28 C9-C24	7.741	(2.644-12.838)		85973	8.76	
A	29 C9-C25	7.958	(2.644-13.272)		91247	9.29	
A	54 C10-C23	8.125	(3.862-12.388)		75743	7.71	
A	4 C10-C24	8.350	(3.862-12.838)		84188	8.57	
A	16 C10-C25	8.567	(3.862-13.272)		89462	9.11	
	45 Hexadecane	8.631	8.628	0.003	1064	NC	
A	14 C10-C26	8.776	(3.862-13.690)		96395	9.82	
A	67 C12-C22	8.838	(5.757-11.919)		60490	6.16	
A	12 Unknown Hydrocarbons	9.172	(3.862-14.483)		106756	NC	
A	32 C10-C28	9.172	(3.862-14.483)		106756	10.9	
A	5 Diesel	9.172	(3.862-14.483)		106756	10.9	
A	30 C13-C22	9.237	(6.555-11.919)		58574	5.97	
	44 Heptadecane	9.266	9.259	0.007	1599	NC	
A	31 C12-C24	9.297	(5.757-12.838)		77901	7.93	
	49 n-Octadecane	9.831	9.835	-0.004	1786	NC	
A	11 Bunker Range Organics (C9-	9.920	(2.644-17.197)		126478	NC	M
A	9 Crude Oil Range Organics (	9.402	(2.644-16.160)		744390	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.920	(2.644-17.197)		928198	83.2	
33 C19	10.390	10.387	0.003	1637	NC	
A 64 C13-C28	10.519	(6.555-14.483)		98553	10.0	
A 17 C10-C36	10.011	(3.862-16.160)		124693	12.7	M
A 68 Crude Oil Range Organics (	10.675	(2.644-18.706)		1267338	NC	
A 13 C9-C40	10.675	(2.644-18.706)		1267338	121.8	
A 58 C16-C24	10.733	(8.628-12.838)		67073	6.83	
61 icosane	10.924	10.921	0.003	2131	NC	
A 6 C10-C40	11.284	(3.862-18.706)		1264140	121.7	
$ 34 p-Terphenyl	11.893	11.892	0.001	289389	25.2	
35 n-Docosane		11.919			ND	
A 18 C12-C40	12.231	(5.757-18.706)		1248742	120.2	
36 Tricosane	12.388	12.388	0.000	1931	NC	
A 66 C13-C40	12.631	(6.555-18.706)		1105256	103.5	
37 n-Tetracosane	12.798	12.838	-0.040	3310	NC	
A 2 C16-C36 ORO	12.913	(8.628-17.197)		592892	83.1	
38 C25	13.279	13.272	0.007	1573	NC	
A 19 C16-C40	13.667	(8.628-18.706)		1192989	113.8	
46 n-Hexacosane	13.684	13.690	-0.006	1666	NC	
A 20 C19-C36	13.792	(10.387-17.197)		406799	52.2	
A 55 C23-C32	14.154	(12.388-15.920)		212888	51.8	
39 n-Octacosane	14.412	14.483	-0.071	4688	NC	
65 C29	14.860	14.860	0.000	1434	NC	M
A 7 Motor Oil	15.017	(12.838-17.197)		347759	60.9	
A 40 C24-C36	15.017	(12.838-17.197)		347759	60.9	
A 50 C25-C36	15.234	(13.272-17.197)		325777	60.5	
A 10 C22-C40	15.312	(11.919-18.706)		390785	49.3	
A 41 C23-C40	15.547	(12.388-18.706)		633247	81.9	
A 8 C24-C40	15.772	(12.838-18.706)		613513	82.3	
56 Dotriacontane		15.920			ND	
A 51 C28-C40	16.595	(14.483-18.706)		521386	71.6	
A 63 C29-C40	16.783	(14.860-18.706)		496554	74.8	
42 n-Hexatriacontane		17.197			ND	
43 C40		18.706			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

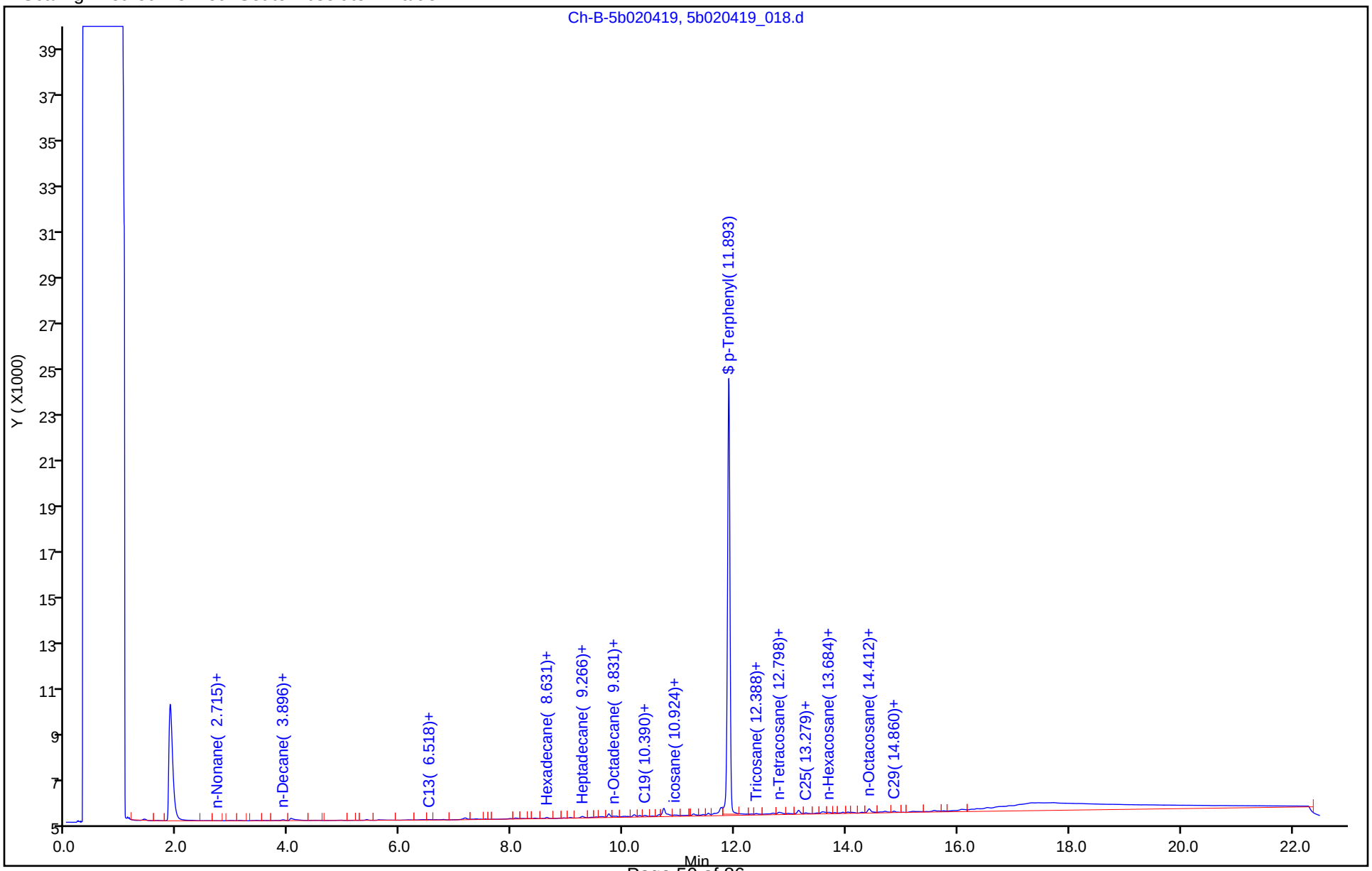
Report Date: 05-Feb-2019 10:53:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_018.d

Injection Date:	04-Feb-2019 17:49:21	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-8-E	Lab Sample ID:	720-90949-8	Worklist Smp#:	18
Client ID:	DG-AL9S-7-7.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_018.d				
Lims ID:	720-90949-E-8-E				
Client ID:	DG-AL9S-7-7.5				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 17:49:21	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0056422-018				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 10:53:02	Calib Date:	04-Feb-2019 09:47:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 10:53:02

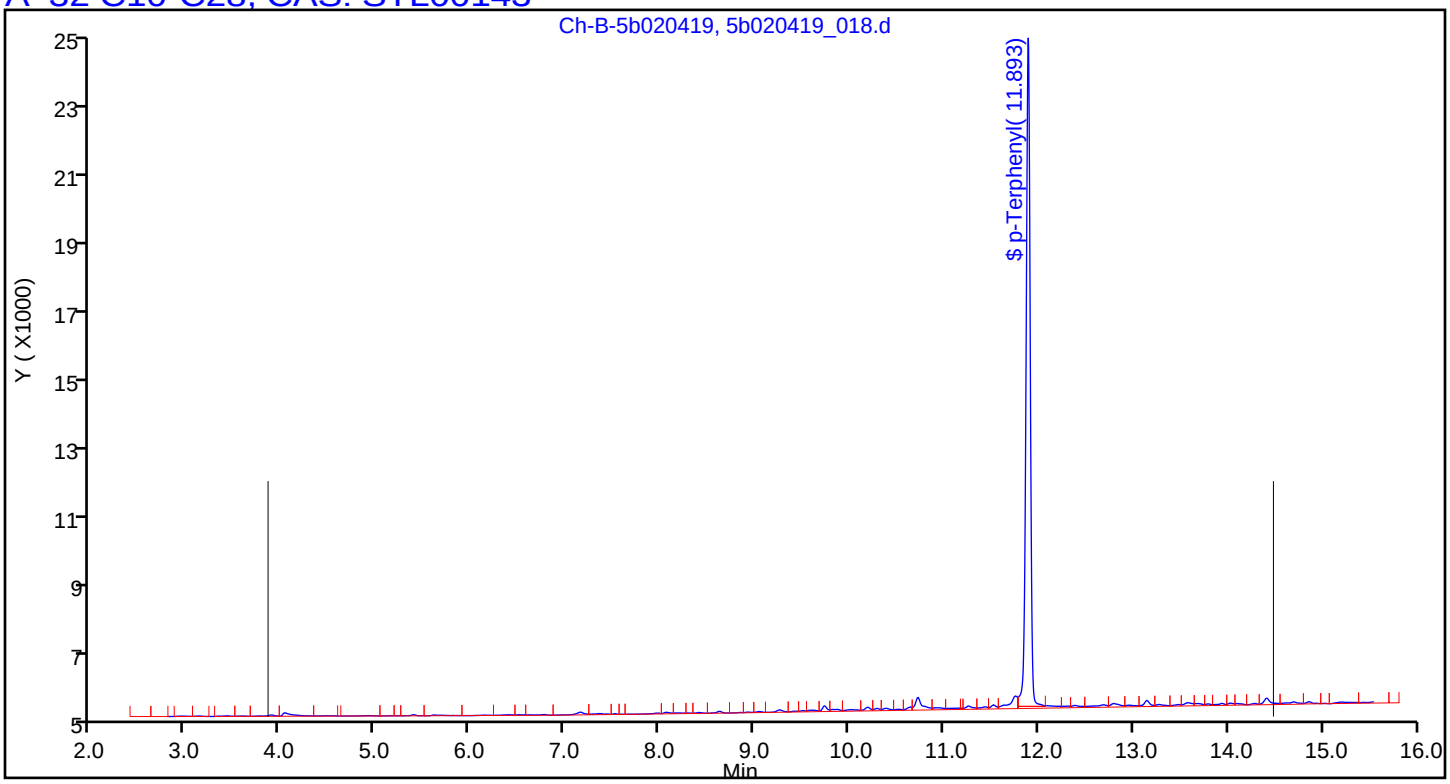
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.2	100.78

Report Date: 05-Feb-2019 10:53:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_018.d				
Injection Date:	04-Feb-2019 17:49:21	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-8-E	Lab Sample ID:	720-90949-8		
Client ID:	DG-AL9S-7-7.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

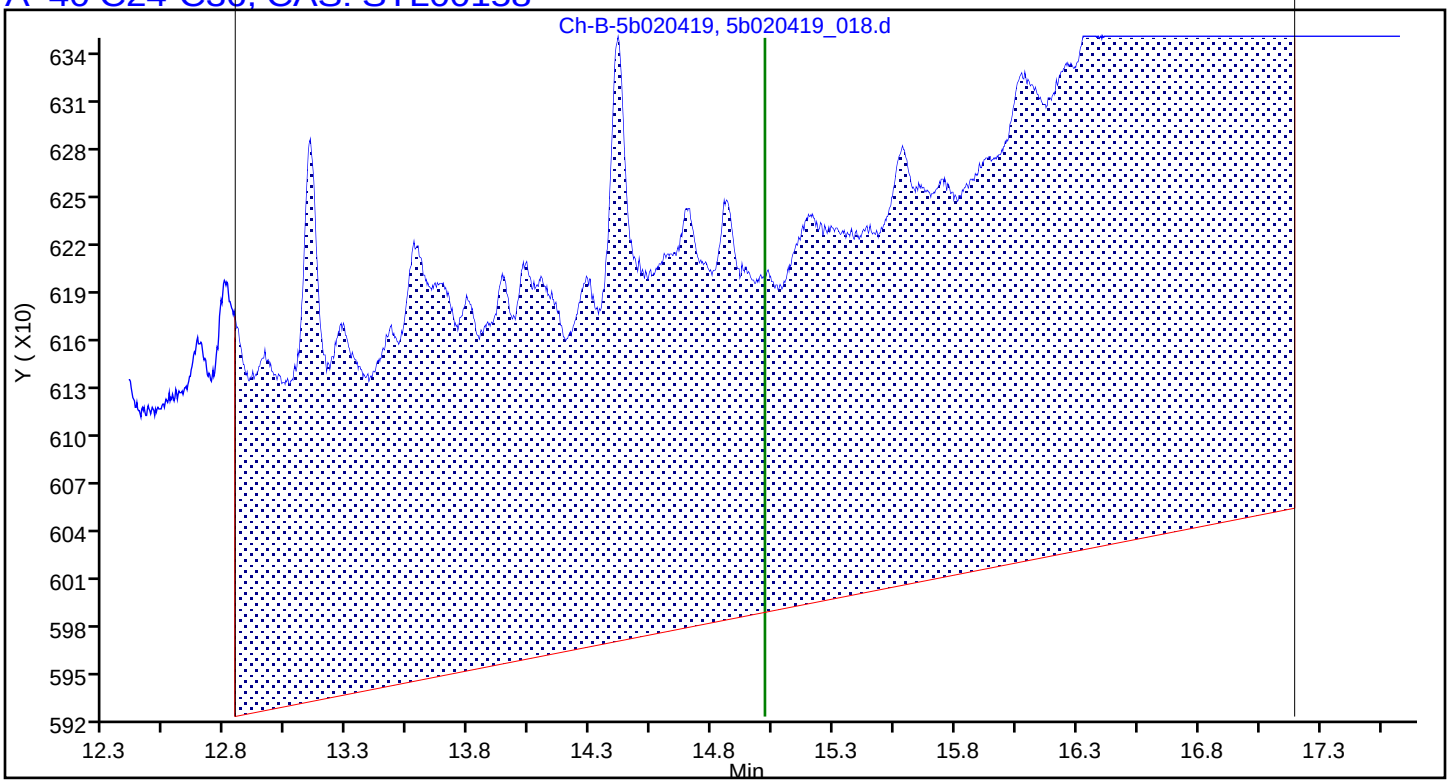


Report Date: 05-Feb-2019 10:53:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_018.d				
Injection Date:	04-Feb-2019 17:49:21	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-8-E	Lab Sample ID:	720-90949-8		
Client ID:	DG-AL9S-7-7.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_020.d
Lims ID: 720-90949-E-9-F
Client ID: DG-Y11S-0.5-1
Sample Type: Client
Inject. Date: 01-Feb-2019 18:18:50 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: #: 100 Name: 720-0056396-020
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\DRO5B.m
Limit Group: DRO
Last Update: 04-Feb-2019 11:03:12 Calib Date: 01-Feb-2019 09:14:15
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0301

First Level Reviewer: luj Date: 04-Feb-2019 11:03:12

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.654			ND	
	23 n-Decane	3.908	3.879	0.029	745	NC	
A	21 Stoddard Solvent	4.610	(2.654-6.567)		4669	0.4107	
A	1 C9-C13	4.610	(2.654-6.567)		4669	0.3686	
A	57 C10-C12	4.823	(3.879-5.767)		2862	0.2915	
	24 Dodecane	5.756	5.767	-0.011	338	NC	
A	3 C9 - C17	5.962	(2.654-9.271)		7449	0.5338	
A	47 C9 - C18	6.251	(2.654-9.848)		7449	0.6636	
A	60 C10-C16	6.261	(3.879-8.643)		6282	0.5099	
A	25 C9-C19	6.529	(2.654-10.404)		7449	0.5326	
A	15 Kerosene	6.529	(2.654-10.404)		7449	0.6620	
	26 C13		6.567			ND	
$	27 n-Decanoic Acid (Surr)		7.193			ND	U
A	59 C12-C16	7.205	(5.767-8.643)		3758	0.3828	
A	62 C10-C20	7.408	(3.879-10.937)		6282	0.6398	
A	28 C9-C24	7.756	(2.654-12.858)		653172	66.5	
A	29 C9-C25	7.973	(2.654-13.292)		785089	80.0	
A	54 C10-C23	8.142	(3.879-12.406)		367809	37.5	
A	4 C10-C24	8.368	(3.879-12.858)		652005	66.4	
A	16 C10-C25	8.585	(3.879-13.292)		783922	79.8	
	45 Hexadecane		8.643			ND	
A	14 C10-C26	8.795	(3.879-13.711)		783922	79.8	
A	67 C12-C22	8.852	(5.767-11.937)		330062	33.6	
A	12 Unknown Hydrocarbons	9.192	(3.879-14.505)		1356111	NC	
A	32 C10-C28	9.192	(3.879-14.505)		1356111	138.1	
A	5 Diesel	9.192	(3.879-14.505)		1356111	138.1	
A	30 C13-C22	9.252	(6.567-11.937)		329084	33.5	
	44 Heptadecane		9.271			ND	
A	31 C12-C24	9.312	(5.767-12.858)		649481	66.2	
	49 n-Octadecane		9.848			ND	
A	11 Bunker Range Organics (C9-	9.935	(2.654-17.217)		2268973	NC	
A	9 Crude Oil Range Organics (	9.479	(2.654-16.303)		2818762	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.935	(2.654-17.217)		3337026	299.0	
33 C19		10.404			ND	
A 64 C13-C28	10.536	(6.567-14.505)		1352609	137.8	
A 17 C10-C36	10.091	(3.879-16.303)		2267806	231.0	
A 68 Crude Oil Range Organics (	10.701	(2.654-18.749)		4160329	NC	
A 13 C9-C40	10.701	(2.654-18.749)		4160329	501.0	
A 58 C16-C24	10.750	(8.643-12.858)		645723	65.8	
61 icosane		10.937			ND	
A 6 C10-C40	11.314	(3.879-18.749)		4158775	501.0	
$ 34 p-Terphenyl		11.910			ND	U
35 n-Docosane		11.937			ND	
A 18 C12-C40	12.258	(5.767-18.749)		4153198	500.8	
36 Tricosane	12.423	12.406	0.017	116604	NC	
A 66 C13-C40	12.658	(6.567-18.749)		4068019	492.4	
37 n-Tetracosane	12.853	12.858	-0.005	55632	NC	
A 2 C16-C36 ORO	12.930	(8.643-17.217)		2681806	375.9	
38 C25		13.292			ND	
A 19 C16-C40	13.696	(8.643-18.749)		4118770	497.7	
46 n-Hexacosane		13.711			ND	
A 20 C19-C36	13.810	(10.404-17.217)		1958145	251.1	
A 55 C23-C32	14.175	(12.406-15.944)		1727275	420.5	
39 n-Octacosane	14.457	14.505	-0.048	77893	NC	
65 C29	14.971	14.882	0.089	197841	NC	
A 7 Motor Oil	15.037	(12.858-17.217)		2198506	385.1	
A 40 C24-C36	15.037	(12.858-17.217)		2198506	385.1	
A 50 C25-C36	15.254	(13.292-17.217)		2020756	375.5	
A 10 C22-C40	15.343	(11.937-18.749)		3234426	408.3	
A 41 C23-C40	15.577	(12.406-18.749)		3089772	399.7	
A 8 C24-C40	15.803	(12.858-18.749)		2924979	392.1	
56 Dotriacontane		15.944			ND	
A 51 C28-C40	16.627	(14.505-18.749)		2158850	412.6	
A 63 C29-C40	16.815	(14.882-18.749)		1943241	414.9	
42 n-Hexatriacontane	17.314	17.217	0.097	1851413	NC	
43 C40		18.749			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

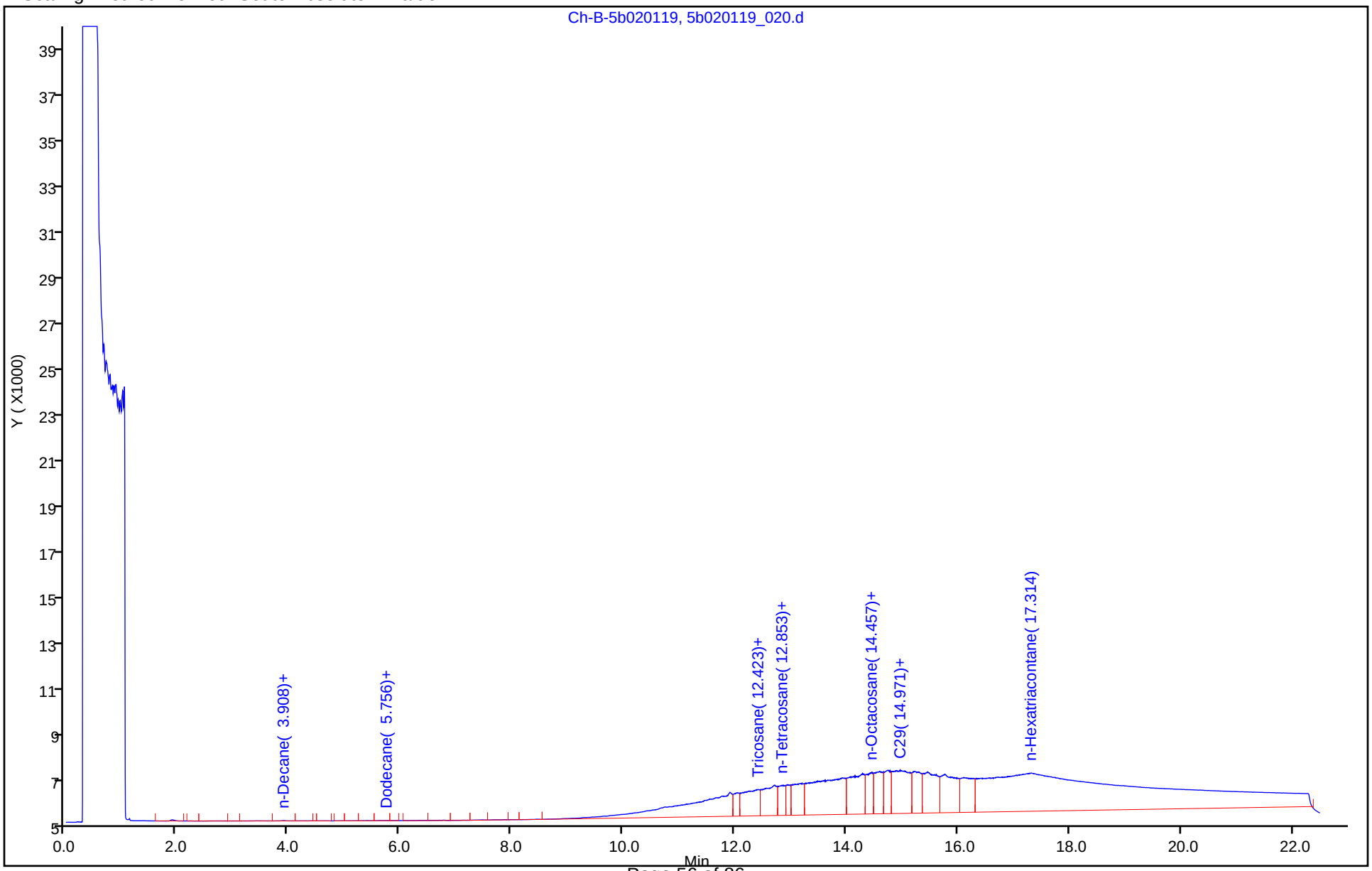
Report Date: 04-Feb-2019 11:03:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_020.d

Injection Date:	01-Feb-2019 18:18:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-9-F	Lab Sample ID:	720-90949-9	Worklist Smp#:	20
Client ID:	DG-Y11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

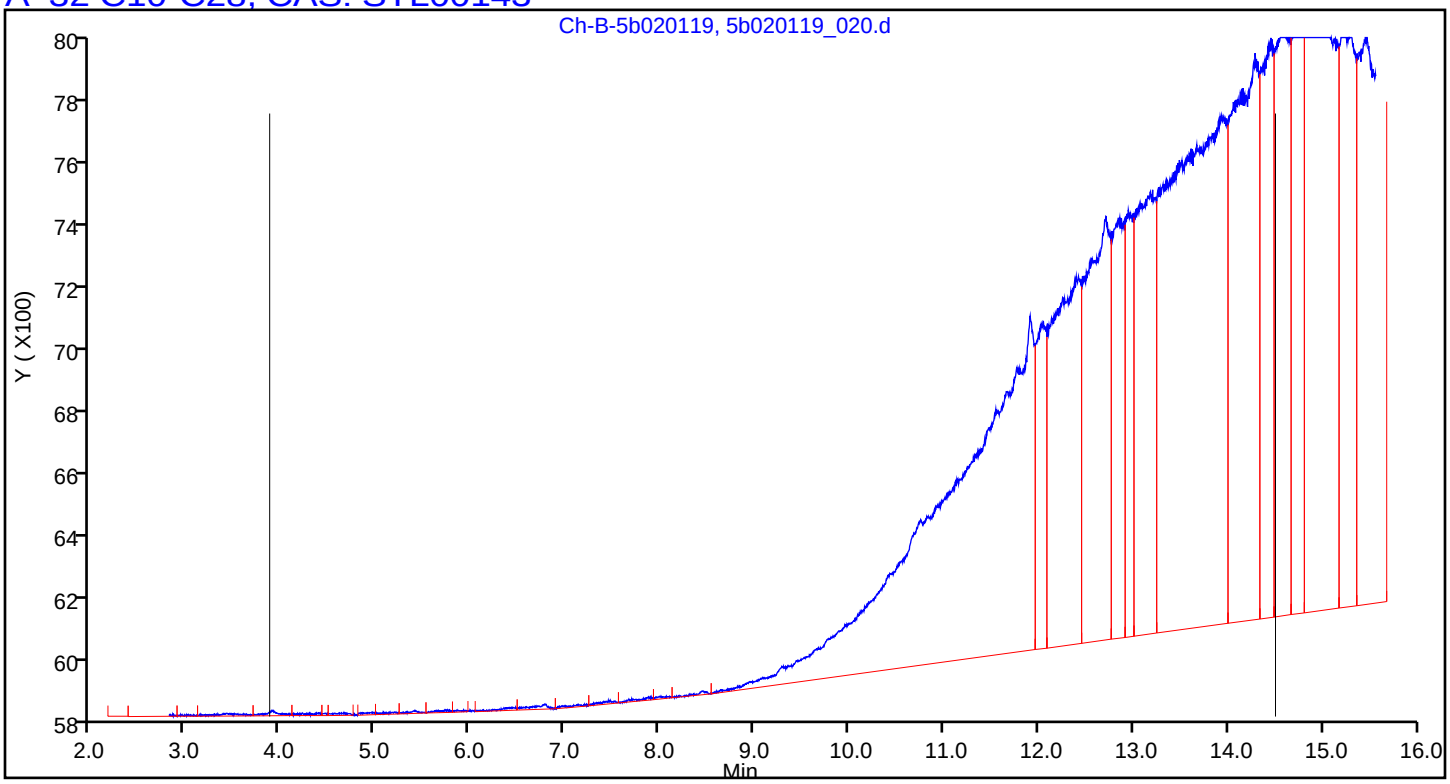


Report Date: 04-Feb-2019 11:03:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_020.d				
Injection Date:	01-Feb-2019 18:18:50	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-9-F	Lab Sample ID:	720-90949-9		
Client ID:	DG-Y11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

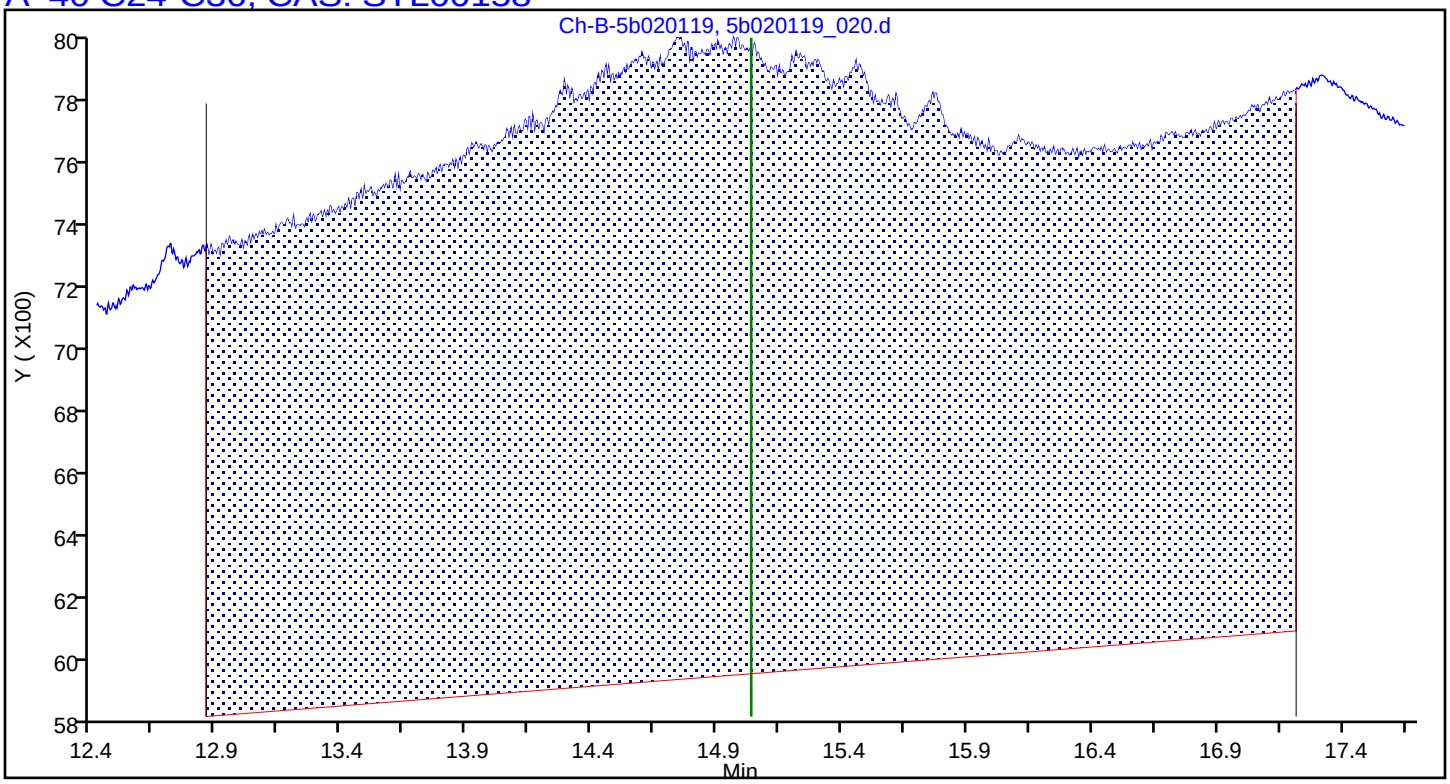


Report Date: 04-Feb-2019 11:03:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_020.d				
Injection Date:	01-Feb-2019 18:18:50	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-9-F	Lab Sample ID:	720-90949-9		
Client ID:	DG-Y11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



User Disabled Compound Report

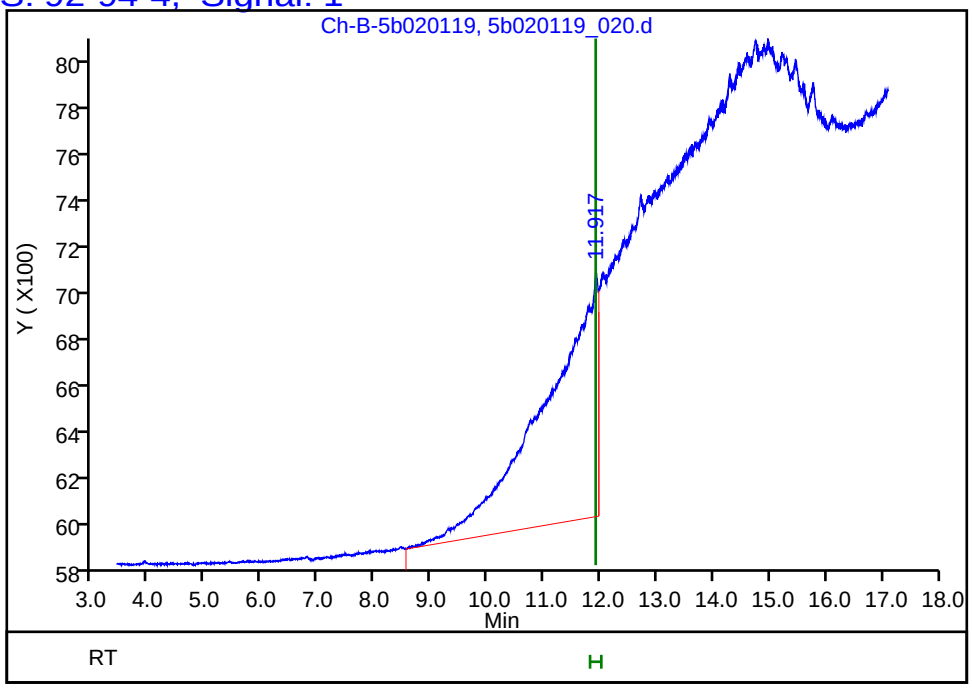
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_020.d

Injection Date:	01-Feb-2019 18:18:50	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-9-F	Lab Sample ID:	720-90949-9		
Client ID:	DG-Y11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.92
Response: 326304
Amount: 28.409985



Reviewer: luj, 04-Feb-2019 11:03:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_013.d
Lims ID: 720-90949-E-10-E
Client ID: DG-Y11S-3.5-4
Sample Type: Client
Inject. Date: 04-Feb-2019 15:22:19 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 102 Name: 720-0056422-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:49:05 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 04-Feb-2019 16:17:43

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.589	2.644	-0.055	579	NC	
	23 n-Decane	3.842	3.862	-0.020	3114	NC	
A	21 Stoddard Solvent	4.600	(2.644-6.555)		44710	3.93	
A	1 C9-C13	4.600	(2.644-6.555)		44710	3.53	
A	57 C10-C12	4.809	(3.862-5.757)		17605	1.79	
	24 Dodecane	5.756	5.757	-0.001	2468	NC	
A	3 C9 - C17	5.951	(2.644-9.259)		366920	26.7	
A	47 C9 - C18	6.240	(2.644-9.835)		3127273	278.6	
A	60 C10-C16	6.245	(3.862-8.628)		356661	29.4	
A	25 C9-C19	6.515	(2.644-10.387)		3127273	226.8	
A	15 Kerosene	6.515	(2.644-10.387)		3127273	277.9	
	26 C13	6.511	6.555	-0.044	4977	NC	
$	27 n-Decanoic Acid (Surr)		7.167			ND	
A	59 C12-C16	7.193	(5.757-8.628)		341524	34.8	
A	62 C10-C20	7.391	(3.862-10.921)		7256251	739.1	
A	28 C9-C24	7.741	(2.644-12.838)		15060096	1533.9	
A	29 C9-C25	7.958	(2.644-13.272)		15887640	1618.2	
A	54 C10-C23	8.125	(3.862-12.388)		13351338	1359.9	
A	4 C10-C24	8.350	(3.862-12.838)		15049837	1532.8	
A	16 C10-C25	8.567	(3.862-13.272)		15877381	1617.1	
	45 Hexadecane		8.628			ND	
A	14 C10-C26	8.776	(3.862-13.690)		16710073	1701.9	
A	67 C12-C22	8.838	(5.757-11.919)		11010279	1121.4	
A	12 Unknown Hydrocarbons	9.172	(3.862-14.483)		18673995	NC	
A	32 C10-C28	9.172	(3.862-14.483)		18673995	1902.0	
A	5 Diesel	9.172	(3.862-14.483)		18673995	1902.0	
A	30 C13-C22	9.237	(6.555-11.919)		10995942	1120.0	
	44 Heptadecane		9.259			ND	
A	31 C12-C24	9.297	(5.757-12.838)		15034700	1531.3	
	49 n-Octadecane	9.796	9.835	-0.039	2760353	NC	
A	11 Bunker Range Organics (C9-	9.920	(2.644-17.197)		28508589	NC	
A	9 Crude Oil Range Organics (	9.920	(2.720-16.160)		25972478	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.920	(2.644-17.197)		25972478	2327.1	
33 C19		10.387			ND	
A 64 C13-C28	10.519	(6.555-14.483)		18644521	1899.0	
A 17 C10-C36	10.607	(3.862-16.160)		28495216	2902.3	
A 68 Crude Oil Range Organics (	10.675	(2.644-18.706)		27860033	NC	
A 13 C9-C40	10.675	(2.644-18.706)		27860033	3606.7	E
A 58 C16-C24	10.733	(8.628-12.838)		14693176	1496.5	
61 icosane	10.969	10.921	0.048	2044310	NC	
A 6 C10-C40	11.284	(3.862-18.706)		27845230	3605.0	E
$ 34 p-Terphenyl	11.893	11.892	0.001	199906	17.4	M
35 n-Docosane		11.919			ND	
A 18 C12-C40	12.231	(5.757-18.706)		27808944	3600.7	E
36 Tricosane		12.388			ND	
A 66 C13-C40	12.631	(6.555-18.706)		27097405	3515.6	E
37 n-Tetracosane	12.797	12.838	-0.041	909283	NC	
A 2 C16-C36 ORO	12.913	(8.628-17.197)		17471986	2449.1	
38 C25	13.270	13.272	-0.002	500644	NC	
A 19 C16-C40	13.667	(8.628-18.706)		27093109	3512.5	E
46 n-Hexacosane	13.685	13.690	-0.005	203422	NC	
A 20 C19-C36	13.792	(10.387-17.197)		19303855	2475.6	
A 55 C23-C32	14.154	(12.388-15.920)		8052740	1960.5	
39 n-Octacosane	14.418	14.483	-0.065	452736	NC	
65 C29	14.926	14.860	0.066	862556	NC	
A 7 Motor Oil	15.017	(12.838-17.197)		8902382	1559.6	
A 40 C24-C36	15.017	(12.838-17.197)		11048487	1935.5	M
A 50 C25-C36	15.234	(13.272-17.197)		7948542	1477.0	
A 10 C22-C40	15.312	(11.919-18.706)		12172256	1536.5	
A 41 C23-C40	15.547	(12.388-18.706)		11036152	1427.5	
A 8 C24-C40	15.772	(12.838-18.706)		9939656	1332.6	
56 Dotriacontane		15.920			ND	
A 51 C28-C40	16.595	(14.483-18.706)		6400282	1296.0	
A 63 C29-C40	16.783	(14.860-18.706)		5465268	1243.0	
42 n-Hexatriacontane		17.197			ND	
43 C40		18.706			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

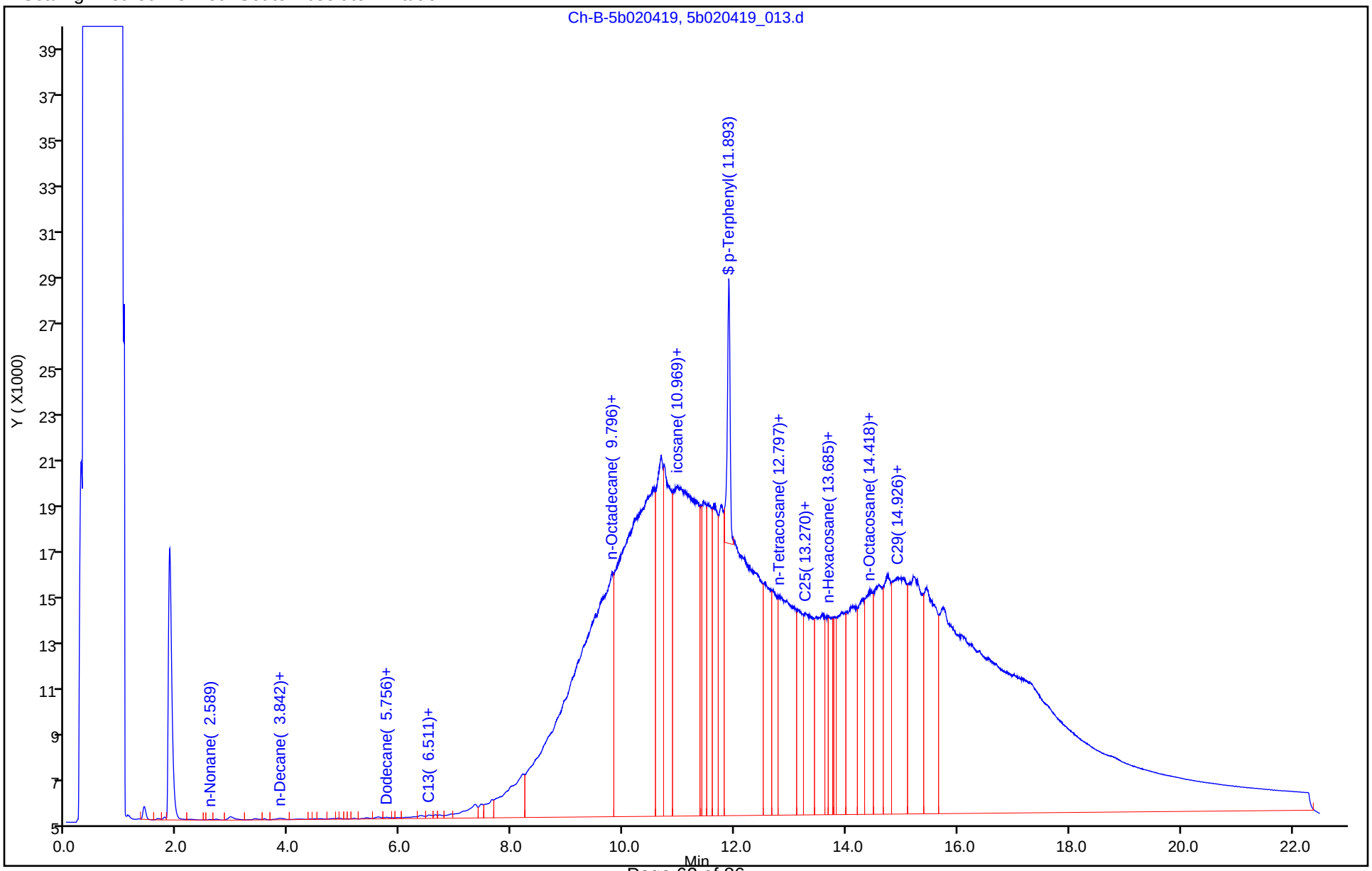
M - Manually Integrated

Report Date: 05-Feb-2019 14:29:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_013.d				
Injection Date:	04-Feb-2019 15:22:19	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-10-E	Lab Sample ID:	720-90949-10	Worklist Smp#:	13
Client ID:	DG-Y11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_013.d				
Lims ID:	720-90949-E-10-E				
Client ID:	DG-Y11S-3.5-4				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 15:22:19	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 102 Name: 720-0056422-013				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 12:49:05	Calib Date:	04-Feb-2019 09:47:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 04-Feb-2019 16:17:43

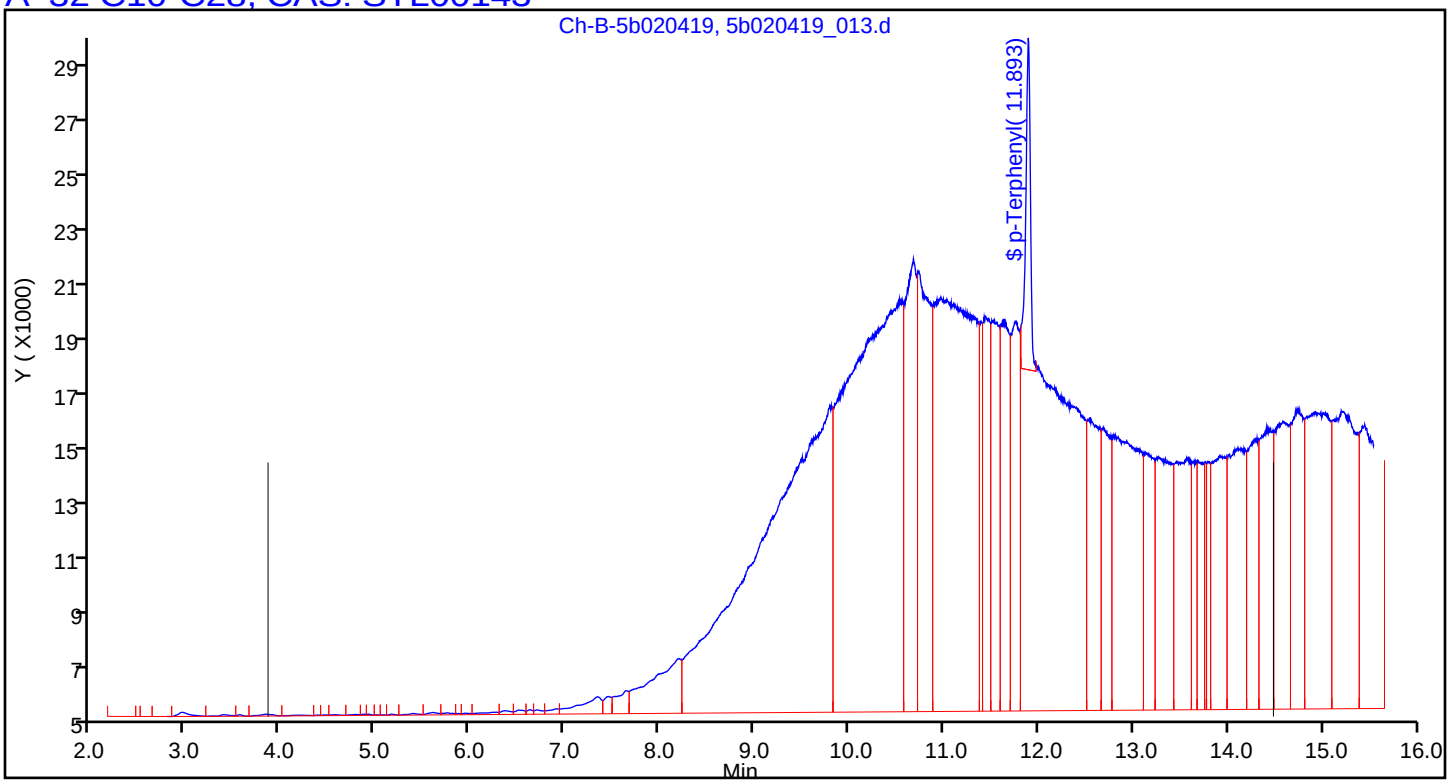
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	17.4	69.62

Report Date: 05-Feb-2019 14:29:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_013.d				
Injection Date:	04-Feb-2019 15:22:19	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-10-E	Lab Sample ID:	720-90949-10		
Client ID:	DG-Y11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

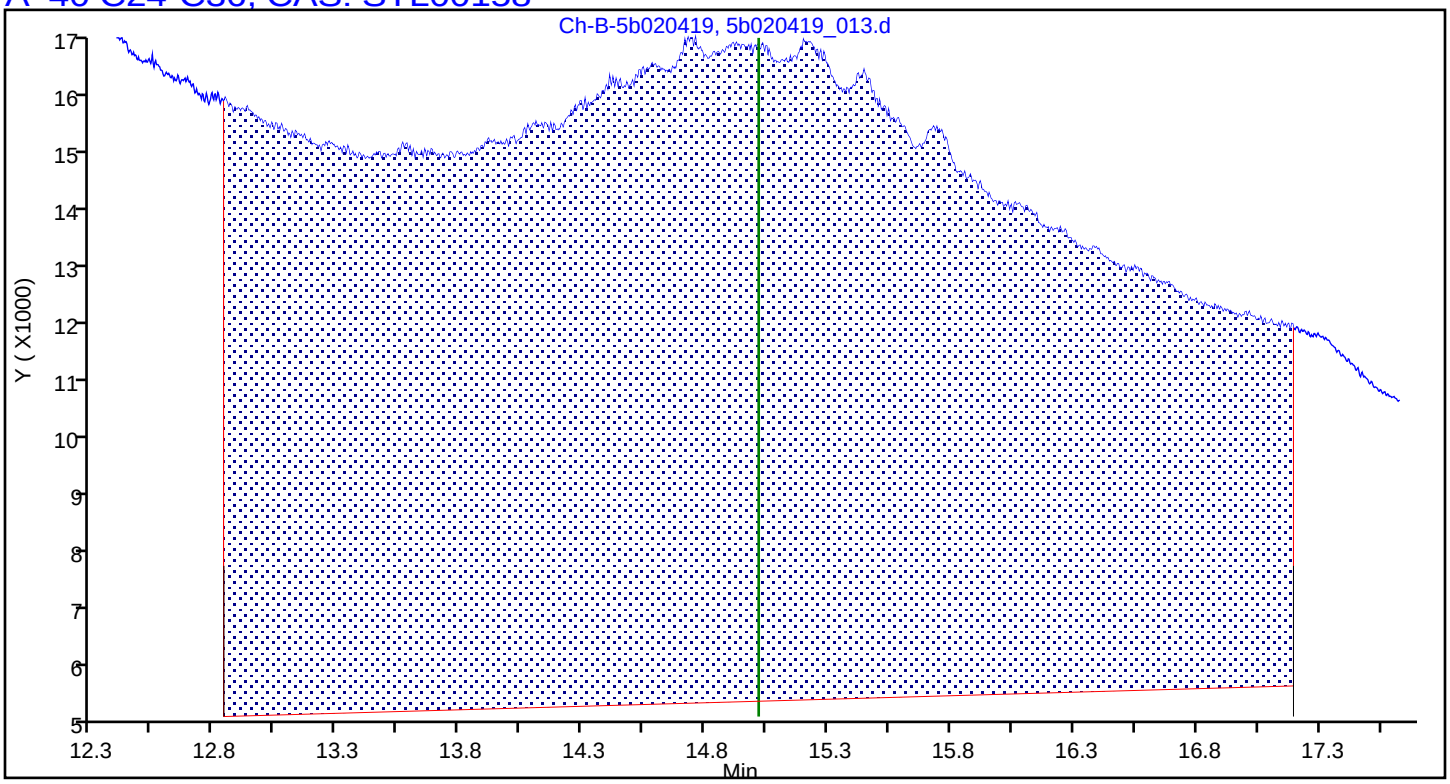


Report Date: 05-Feb-2019 14:29:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_013.d				
Injection Date:	04-Feb-2019 15:22:19	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-10-E	Lab Sample ID:	720-90949-10		
Client ID:	DG-Y11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

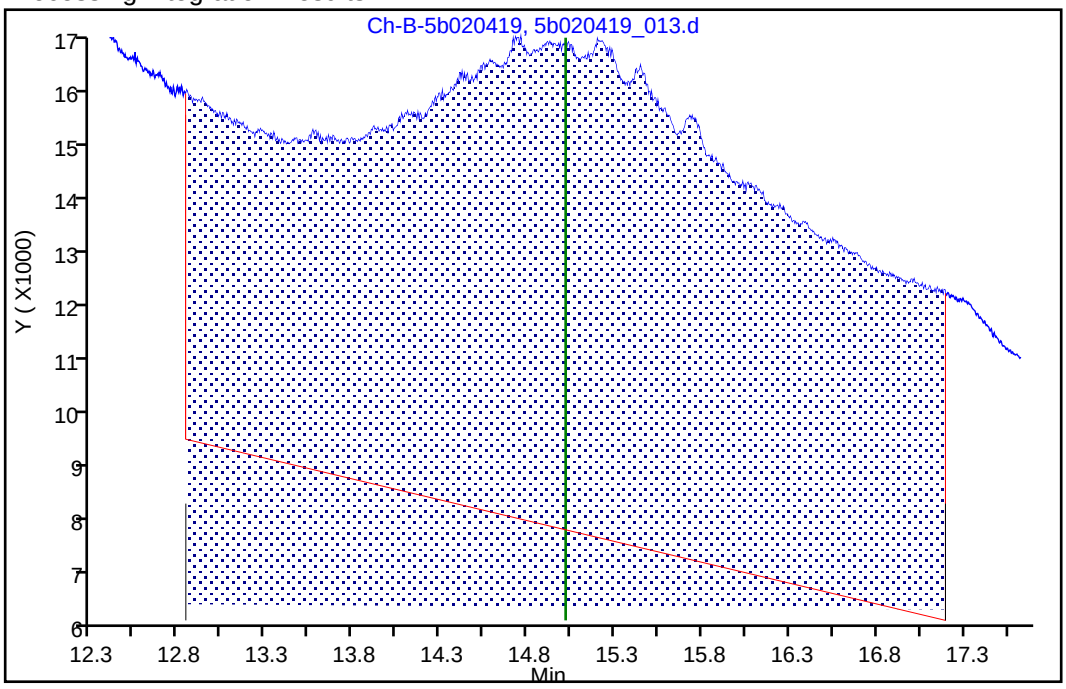
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_013.d				
Injection Date:	04-Feb-2019 15:22:19	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-10-E	Lab Sample ID:	720-90949-10		
Client ID:	DG-Y11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.017, CAS: STL00158

Signal: 1

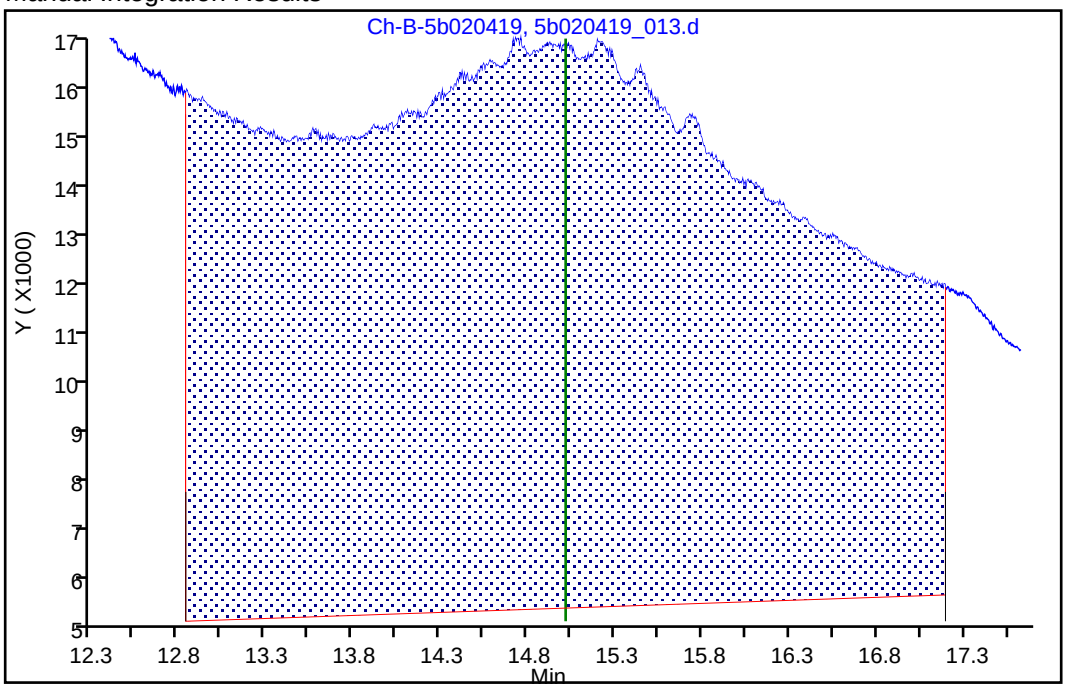
Processing Integration Results

RT: 15.02
Response: 8902382
Amount: 1559.5708



Manual Integration Results

RT: 15.02
Response: 11048487
Amount: 1935.5379



Reviewer: luj, 04-Feb-2019 16:14:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

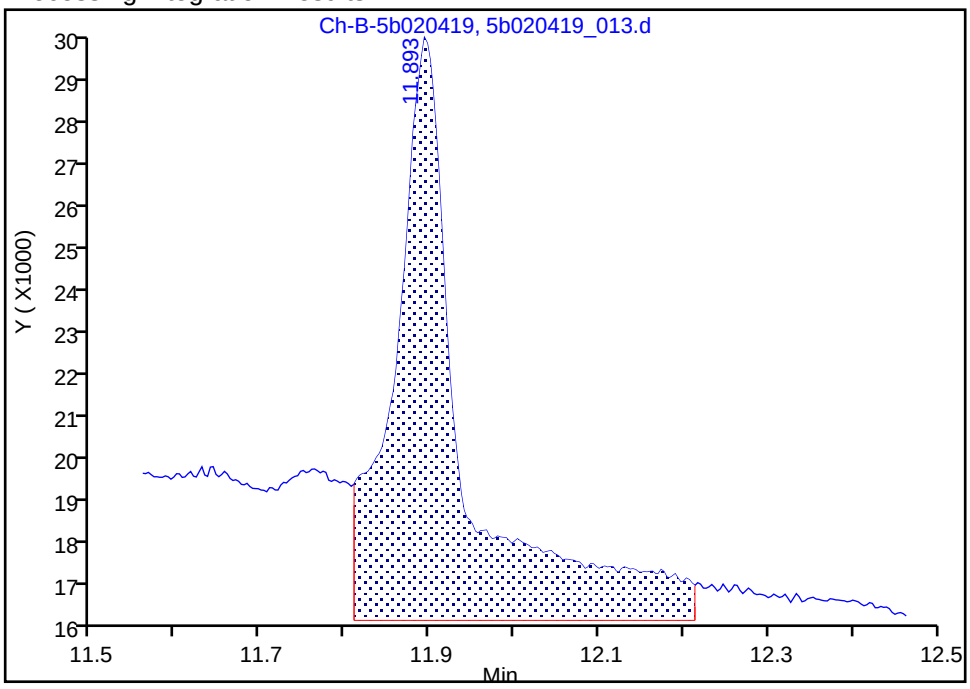
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_013.d				
Injection Date:	04-Feb-2019 15:22:19	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-10-E	Lab Sample ID:	720-90949-10		
Client ID:	DG-Y11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

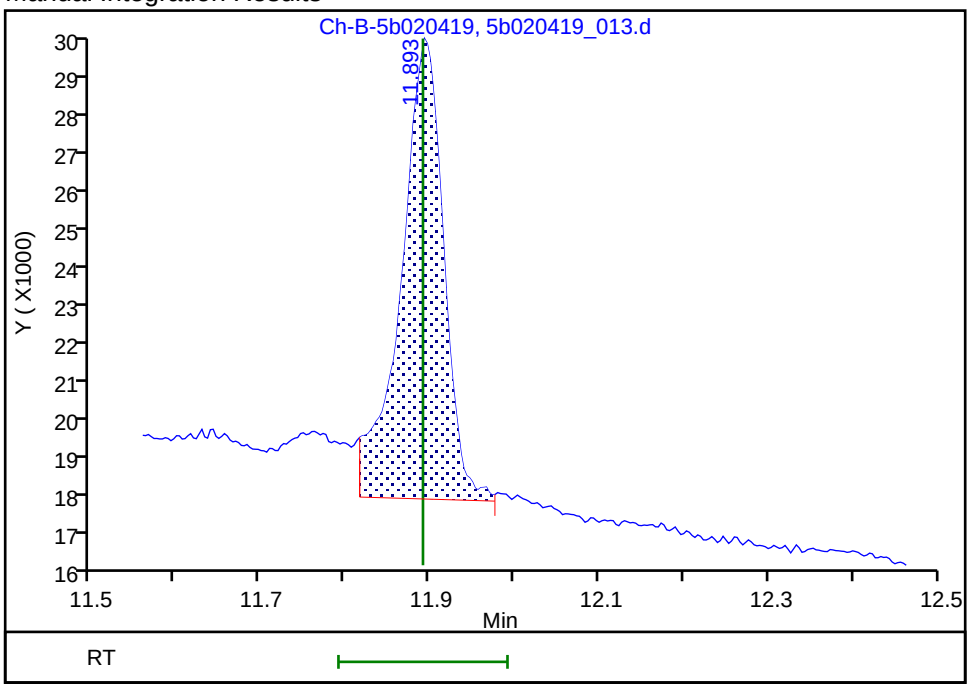
Processing Integration Results

RT: 11.89
Area: 384222
Amount: 33.452674
Amount Units: mg/L



Manual Integration Results

RT: 11.89
Area: 199906
Amount: 17.405017
Amount Units: mg/L



Reviewer: luj, 04-Feb-2019 16:14:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_019.d
Lims ID: 720-90949-E-11-E
Client ID: DUP-64
Sample Type: Client
Inject. Date: 04-Feb-2019 18:18:38 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 106 Name: 720-0056422-019
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m
Limit Group: DRO
Last Update: 05-Feb-2019 10:53:40 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 10:53:40

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.684	2.644	0.040	117	NC	
	23 n-Decane	3.888	3.862	0.026	751	NC	
A	21 Stoddard Solvent	4.600	(2.644-6.555)		10169	0.8945	
A	1 C9-C13	4.600	(2.644-6.555)		10169	0.8029	
A	57 C10-C12	4.809	(3.862-5.757)		6242	0.6358	
	24 Dodecane	5.830	5.757	0.073	210	NC	
A	3 C9 - C17	5.951	(2.644-9.259)		31757	2.31	
A	47 C9 - C18	6.240	(2.644-9.835)		45294	4.04	
A	60 C10-C16	6.245	(3.862-8.628)		24770	2.04	
A	25 C9-C19	6.515	(2.644-10.387)		60136	4.36	
A	15 Kerosene	6.515	(2.644-10.387)		60136	5.34	
	26 C13	6.518	6.555	-0.037	538	NC	
$	27 n-Decanoic Acid (Surr)		7.167			ND	U
A	59 C12-C16	7.193	(5.757-8.628)		19349	1.97	
A	62 C10-C20	7.391	(3.862-10.921)		80517	8.20	
A	28 C9-C24	7.741	(2.644-12.838)		157447	16.0	
A	29 C9-C25	7.958	(2.644-13.272)		168520	17.2	
A	54 C10-C23	8.125	(3.862-12.388)		141251	14.4	
A	4 C10-C24	8.350	(3.862-12.838)		155449	15.8	
A	16 C10-C25	8.567	(3.862-13.272)		166522	17.0	
	45 Hexadecane	8.627	8.628	-0.001	2233	NC	
A	14 C10-C26	8.776	(3.862-13.690)		177759	18.1	
A	67 C12-C22	8.838	(5.757-11.919)		95972	9.77	
A	12 Unknown Hydrocarbons	9.172	(3.862-14.483)		207160	NC	
A	32 C10-C28	9.172	(3.862-14.483)		207160	21.1	
A	5 Diesel	9.172	(3.862-14.483)		207160	21.1	
A	30 C13-C22	9.237	(6.555-11.919)		93760	9.55	
	44 Heptadecane	9.271	9.259	0.012	3359	NC	
A	31 C12-C24	9.297	(5.757-12.838)		150028	15.3	
	49 n-Octadecane	9.875	9.835	0.040	3615	NC	
A	11 Bunker Range Organics (C9-	9.920	(2.644-17.197)		265768	NC	
A	9 Crude Oil Range Organics (	9.422	(2.660-16.183)		694827	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.920	(2.644-17.197)		851130	76.3	
33 C19	10.389	10.387	0.002	3147	NC	
A 64 C13-C28	10.519	(6.555-14.483)		199527	20.3	
A 17 C10-C36	10.022	(3.862-16.183)		263770	26.9	
A 68 Crude Oil Range Organics (	10.675	(2.644-18.706)		1155453	NC	
A 13 C9-C40	10.675	(2.644-18.706)		1155453	107.2	
A 58 C16-C24	10.733	(8.628-12.838)		132912	13.5	
61 icosane	10.960	10.921	0.039	3422	NC	
A 6 C10-C40	11.284	(3.862-18.706)		1152206	107.0	
$ 34 p-Terphenyl	11.893	11.892	0.001	298391	26.0	M
35 n-Docosane		11.919			ND	
A 18 C12-C40	12.231	(5.757-18.706)		1136706	105.5	
36 Tricosane	12.388	12.388	0.000	5760	NC	
A 66 C13-C40	12.631	(6.555-18.706)		974312	86.3	
37 n-Tetracosane	12.804	12.838	-0.034	6305	NC	
A 2 C16-C36 ORO	12.913	(8.628-17.197)		504841	70.8	
38 C25	13.278	13.272	0.006	4305	NC	
A 19 C16-C40	13.667	(8.628-18.706)		1075263	98.4	
46 n-Hexacosane	13.697	13.690	0.007	5038	NC	
A 20 C19-C36	13.792	(10.387-17.197)		369642	47.4	
A 55 C23-C32	14.154	(12.388-15.920)		156398	38.1	
39 n-Octacosane	14.415	14.483	-0.068	6561	NC	
65 C29	14.862	14.860	0.002	4760	NC	
A 7 Motor Oil	15.017	(12.838-17.197)		265854	46.6	
A 40 C24-C36	15.017	(12.838-17.197)		265854	46.6	
A 50 C25-C36	15.234	(13.272-17.197)		249156	46.3	
A 10 C22-C40	15.312	(11.919-18.706)		258770	32.7	
A 41 C23-C40	15.547	(12.388-18.706)		511146	66.1	
A 8 C24-C40	15.772	(12.838-18.706)		496112	66.5	
56 Dotriacontane	15.938	15.920	0.018	5904	NC	
A 51 C28-C40	16.595	(14.483-18.706)		427716	52.1	
A 63 C29-C40	16.783	(14.860-18.706)		409846	54.4	
42 n-Hexatriacontane		17.197			ND	
43 C40		18.706			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

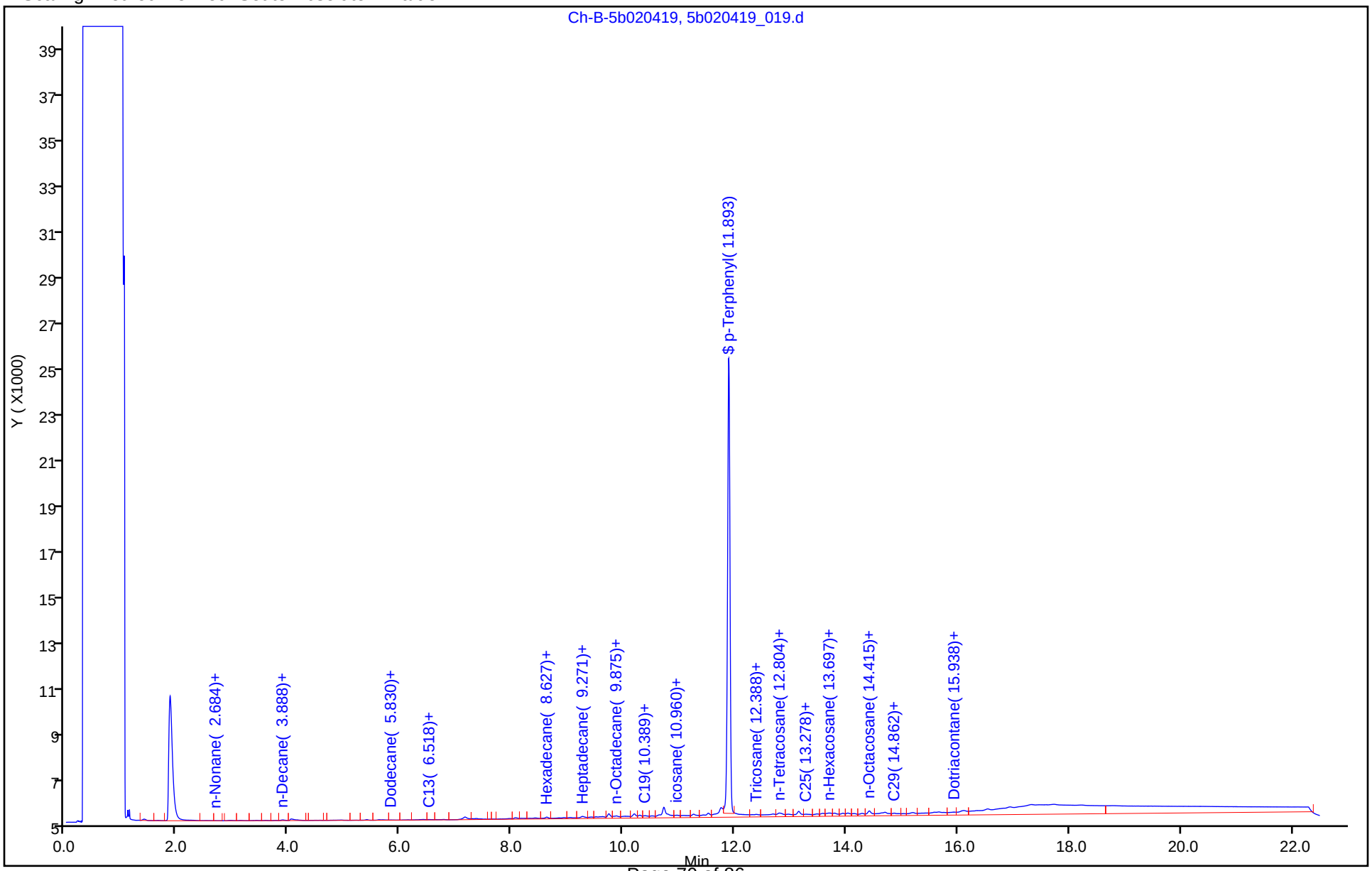
Report Date: 05-Feb-2019 10:53:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_019.d

Injection Date:	04-Feb-2019 18:18:38	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-11-E	Lab Sample ID:	720-90949-11	Worklist Smp#:	19
Client ID:	DUP-64				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_019.d				
Lims ID:	720-90949-E-11-E				
Client ID:	DUP-64				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 18:18:38	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 106 Name: 720-0056422-019				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 10:53:40	Calib Date:	04-Feb-2019 09:47:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 10:53:40

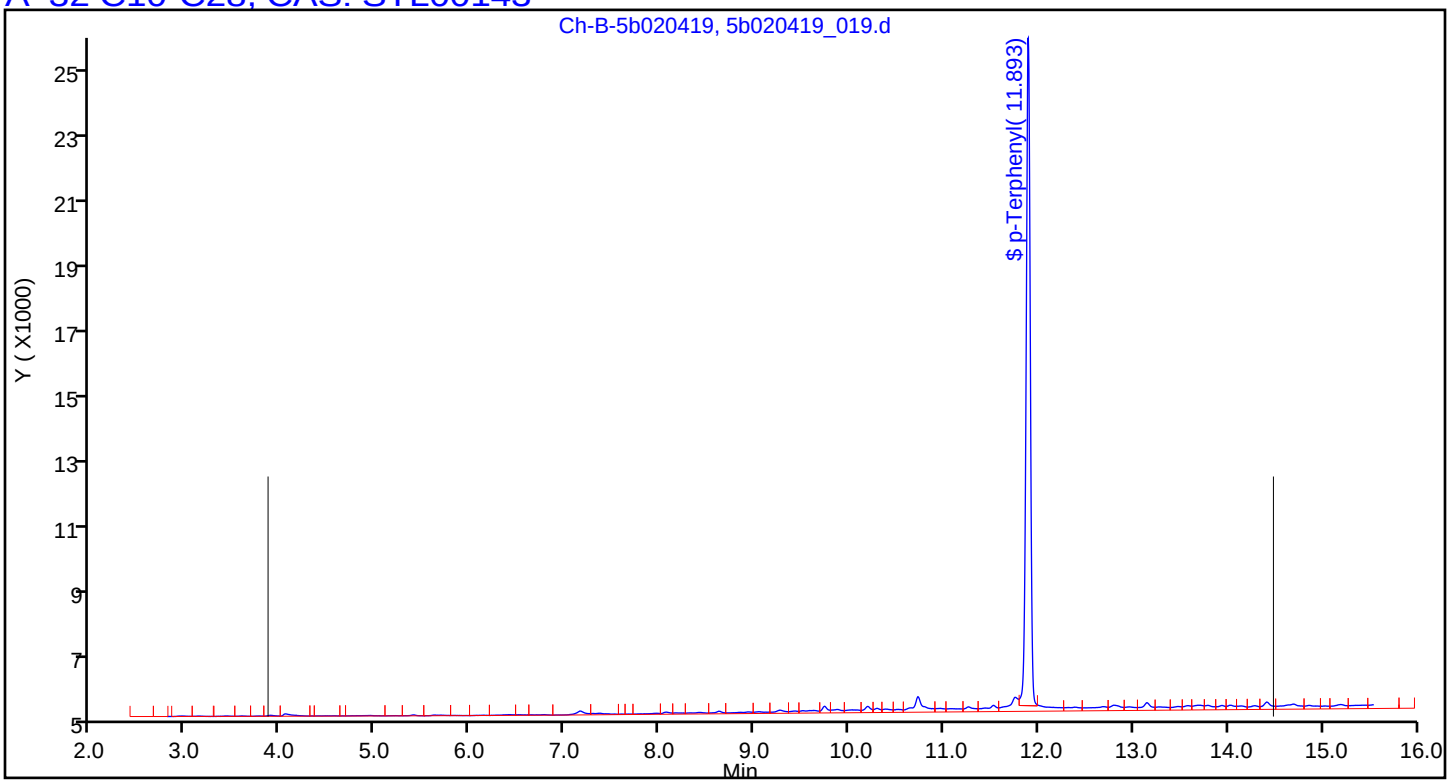
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.0	103.92

Report Date: 05-Feb-2019 10:53:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_019.d				
Injection Date:	04-Feb-2019 18:18:38	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-11-E	Lab Sample ID:	720-90949-11		
Client ID:	DUP-64				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

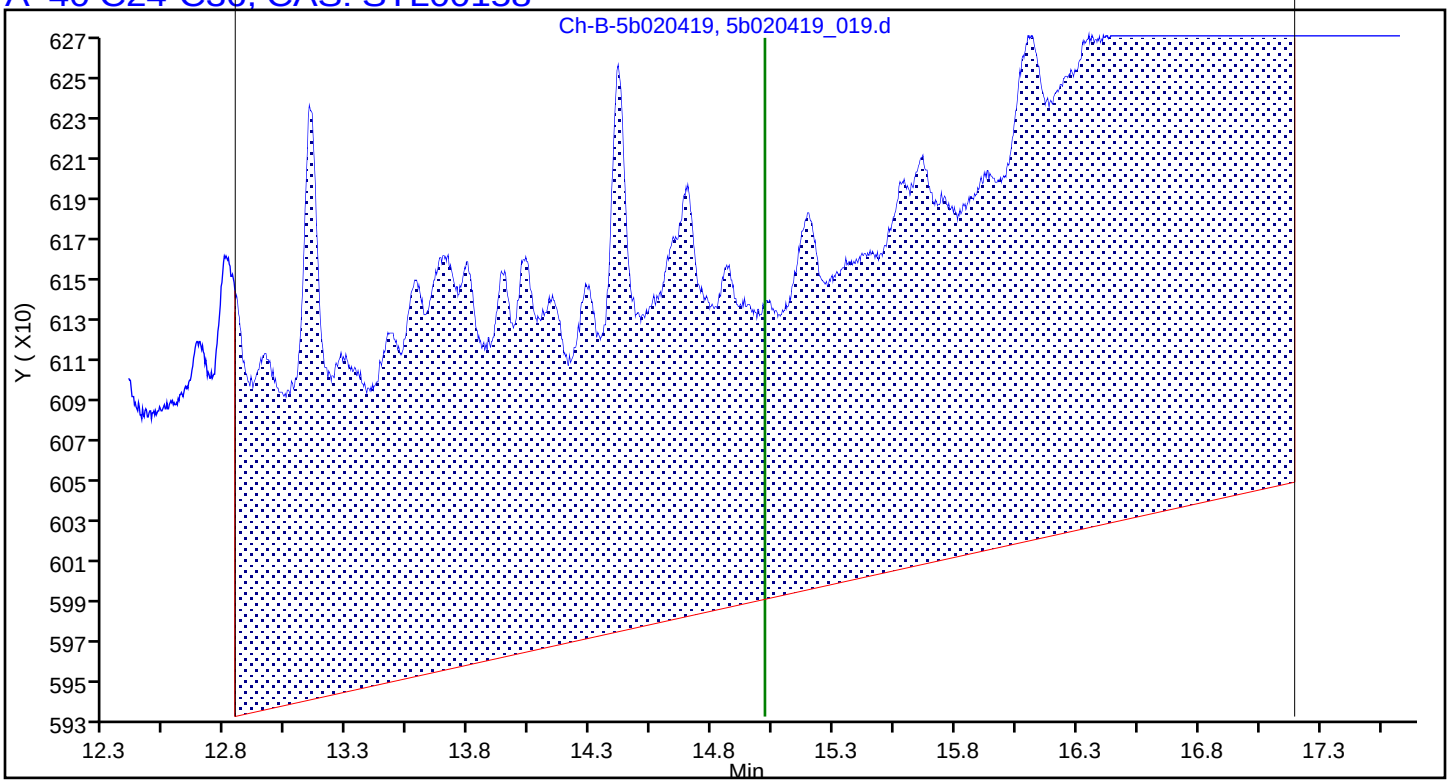


Report Date: 05-Feb-2019 10:53:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_019.d				
Injection Date:	04-Feb-2019 18:18:38	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-11-E	Lab Sample ID:	720-90949-11		
Client ID:	DUP-64				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

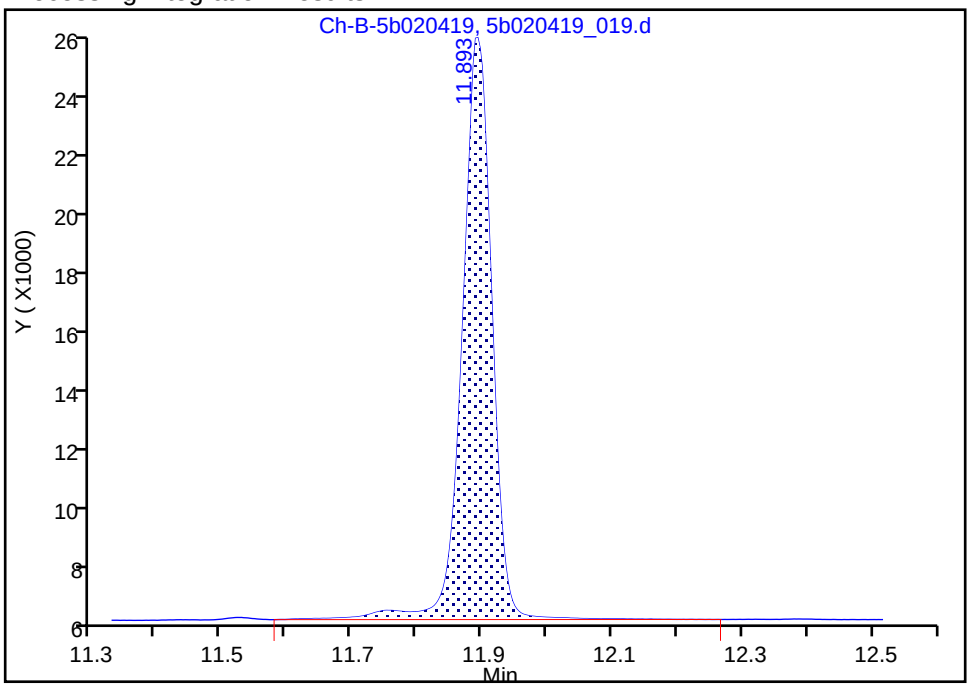
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56422.b\5b020419_019.d				
Injection Date:	04-Feb-2019 18:18:38	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-11-E	Lab Sample ID:	720-90949-11		
Client ID:	DUP-64				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

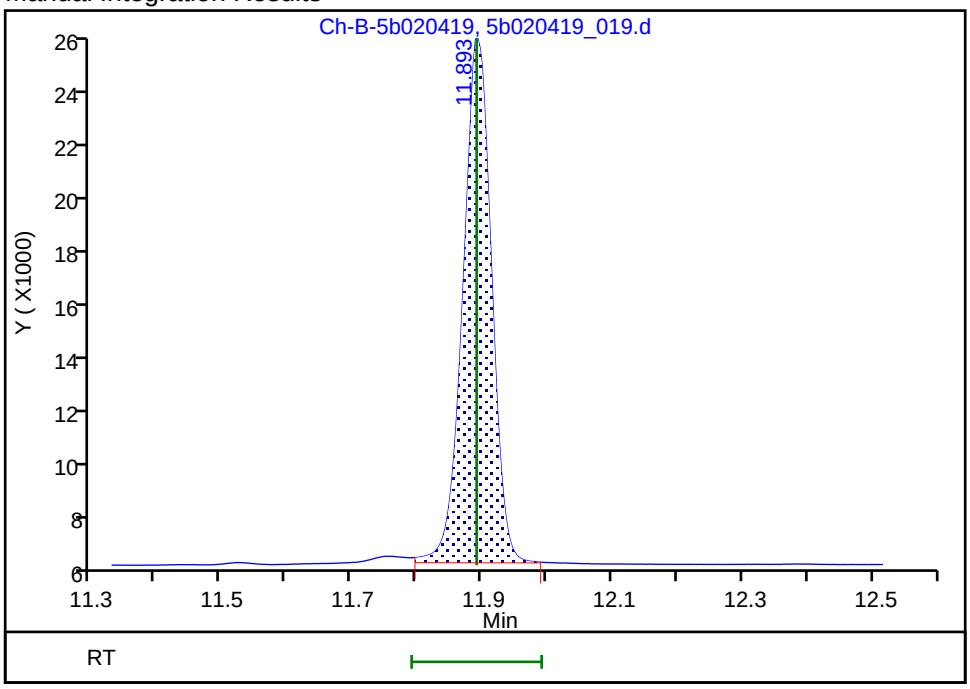
Processing Integration Results

RT: 11.89
Area: 311582
Amount: 27.128200
Amount Units: mg/L



Manual Integration Results

RT: 11.89
Area: 298391
Amount: 25.979712
Amount Units: mg/L



Reviewer: luj, 05-Feb-2019 10:53:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_009.d
Lims ID: 720-90949-E-12-E
Client ID: DUP-76
Sample Type: Client
Inject. Date: 01-Feb-2019 12:37:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 136 Name: 720-0056396-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\DRO5B.m
Limit Group: DRO
Last Update: 04-Feb-2019 11:07:58 Calib Date: 01-Feb-2019 09:14:15
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0301

First Level Reviewer: luj Date: 01-Feb-2019 13:45:13

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.698	2.654	0.044	418	NC	
	23 n-Decane	3.907	3.879	0.028	473	NC	
A	21 Stoddard Solvent	4.610	(2.654-6.567)		7169	0.6306	
A	1 C9-C13	4.610	(2.654-6.567)		7169	0.5660	
A	57 C10-C12	4.823	(3.879-5.767)		2609	0.2657	
	24 Dodecane	5.717	5.767	-0.051	309	NC	
A	3 C9 - C17	5.962	(2.654-9.271)		38775	2.78	
A	47 C9 - C18	6.251	(2.654-9.848)		67786	6.04	
A	60 C10-C16	6.261	(3.879-8.643)		22756	1.85	
A	25 C9-C19	6.529	(2.654-10.404)		94541	6.76	
A	15 Kerosene	6.529	(2.654-10.404)		94541	8.40	
	26 C13	6.521	6.567	-0.046	374	NC	
$	27 n-Decanoic Acid (Surr)		7.193			ND	U
A	59 C12-C16	7.205	(5.767-8.643)		20456	2.08	
A	62 C10-C20	7.408	(3.879-10.937)		169259	17.2	
A	28 C9-C24	7.756	(2.654-12.858)		634751	64.7	
A	29 C9-C25	7.973	(2.654-13.292)		862540	87.9	
A	54 C10-C23	8.142	(3.879-12.406)		409545	41.7	
A	4 C10-C24	8.368	(3.879-12.858)		632008	64.4	
A	16 C10-C25	8.585	(3.879-13.292)		859797	87.6	
	45 Hexadecane	8.645	8.643	0.002	4341	NC	
A	14 C10-C26	8.795	(3.879-13.711)		1108927	112.9	
A	67 C12-C22	8.852	(5.767-11.937)		326840	33.3	
A	12 Unknown Hydrocarbons	9.192	(3.879-14.505)		1780527	NC	
A	32 C10-C28	9.192	(3.879-14.505)		1780527	181.3	
A	5 Diesel	9.192	(3.879-14.505)		1780527	181.3	
A	30 C13-C22	9.252	(6.567-11.937)		325088	33.1	
	44 Heptadecane	9.285	9.271	0.014	8684	NC	
A	31 C12-C24	9.312	(5.767-12.858)		629708	64.1	
	49 n-Octadecane	9.808	9.848	-0.040	7473	NC	
A	11 Bunker Range Organics (C9-	9.935	(2.654-17.217)		5794070	NC	
A	9 Crude Oil Range Organics (	9.935	(2.654-17.217)		4842929	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.935	(2.654-17.217)		4842929	433.9	
33 C19	10.414	10.404	0.010	18387	NC	
A 64 C13-C28	10.536	(6.567-14.505)		1776475	180.9	
A 17 C10-C36	10.548	(3.879-17.217)		5791327	589.9	
A 68 Crude Oil Range Organics (	10.701	(2.654-18.749)		5813294	NC	
A 13 C9-C40	10.701	(2.654-18.749)		5813294	717.6	
A 58 C16-C24	10.750	(8.643-12.858)		609252	62.1	
61 icosane	10.977	10.937	0.040	18693	NC	
A 6 C10-C40	11.314	(3.879-18.749)		5809222	717.3	
$ 34 p-Terphenyl	11.907	11.910	-0.003	128580	11.2	
35 n-Docosane		11.937			ND	
A 18 C12-C40	12.258	(5.767-18.749)		5797535	716.3	
36 Tricosane	12.421	12.406	0.015	109141	NC	
A 66 C13-C40	12.658	(6.567-18.749)		5592646	692.6	
37 n-Tetracosane	12.858	12.858	0.000	63341	NC	
A 2 C16-C36 ORO	12.930	(8.643-17.217)		4095042	574.0	
38 C25	13.300	13.292	0.008	78212	NC	
A 19 C16-C40	13.696	(8.643-18.749)		5716376	707.4	
46 n-Hexacosane	13.726	13.711	0.015	99808	NC	
A 20 C19-C36	13.810	(10.404-17.217)		3543723	454.5	
A 55 C23-C32	14.175	(12.406-15.944)		2753416	670.3	
39 n-Octacosane	14.437	14.505	-0.068	65121	NC	
65 C29	14.981	14.882	0.099	277725	NC	
A 7 Motor Oil	15.037	(12.858-17.217)		3592321	629.3	
A 40 C24-C36	15.037	(12.858-17.217)		3592321	629.3	
A 50 C25-C36	15.254	(13.292-17.217)		3366277	625.5	
A 10 C22-C40	15.343	(11.937-18.749)		4653279	587.4	
A 41 C23-C40	15.577	(12.406-18.749)		4640571	600.3	
A 8 C24-C40	15.803	(12.858-18.749)		4461716	598.2	
56 Dotriacontane	15.901	15.944	-0.043	103607	NC	
A 51 C28-C40	16.627	(14.505-18.749)		3320054	654.5	
A 63 C29-C40	16.815	(14.882-18.749)		2944350	650.3	
42 n-Hexatriacontane	17.202	17.217	-0.015	1695444	NC	
43 C40		18.749			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

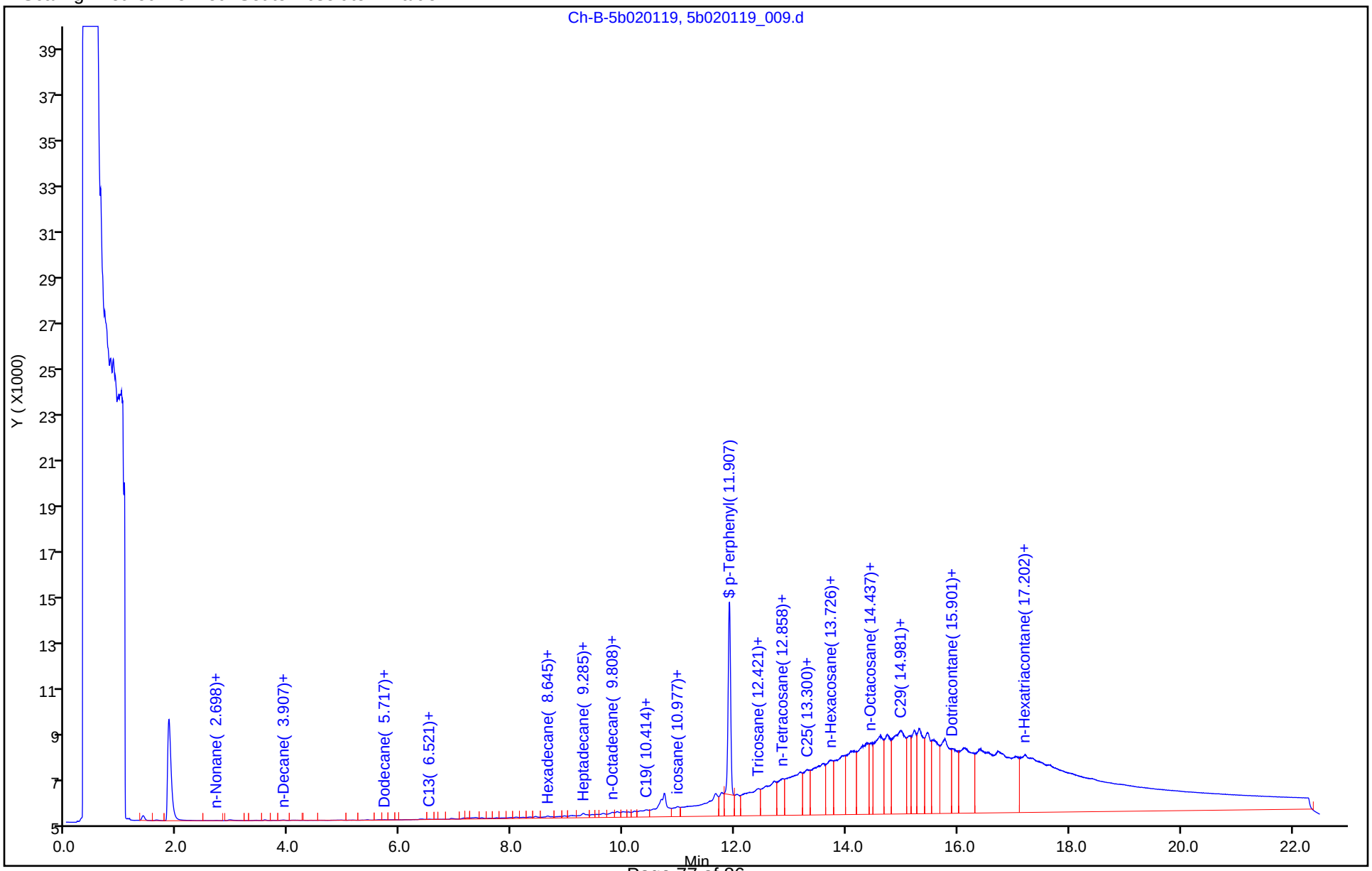
Report Date: 04-Feb-2019 12:53:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_009.d

Injection Date:	01-Feb-2019 12:37:00	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90949-E-12-E	Lab Sample ID:	720-90949-12	Worklist Smp#:	9
Client ID:	DUP-76				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_009.d				
Lims ID:	720-90949-E-12-E				
Client ID:	DUP-76				
Sample Type:	Client				
Inject. Date:	01-Feb-2019 12:37:00	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 136 Name: 720-0056396-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	04-Feb-2019 11:07:58	Calib Date:	01-Feb-2019 09:14:15		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0301				

First Level Reviewer: luj Date: 01-Feb-2019 13:45:13

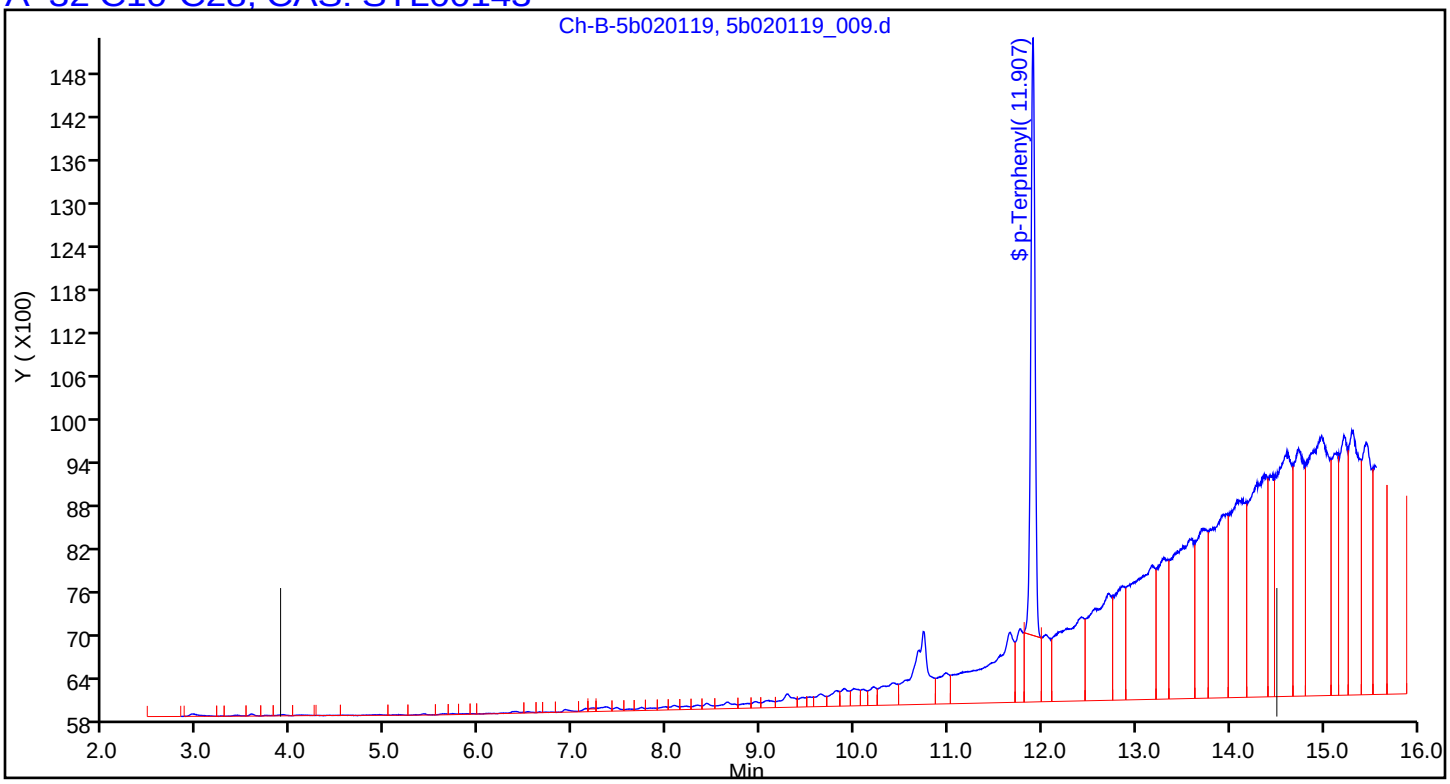
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	11.2	89.56

Report Date: 04-Feb-2019 12:53:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_009.d				
Injection Date:	01-Feb-2019 12:37:00	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-12-E	Lab Sample ID:	720-90949-12		
Client ID:	DUP-76				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

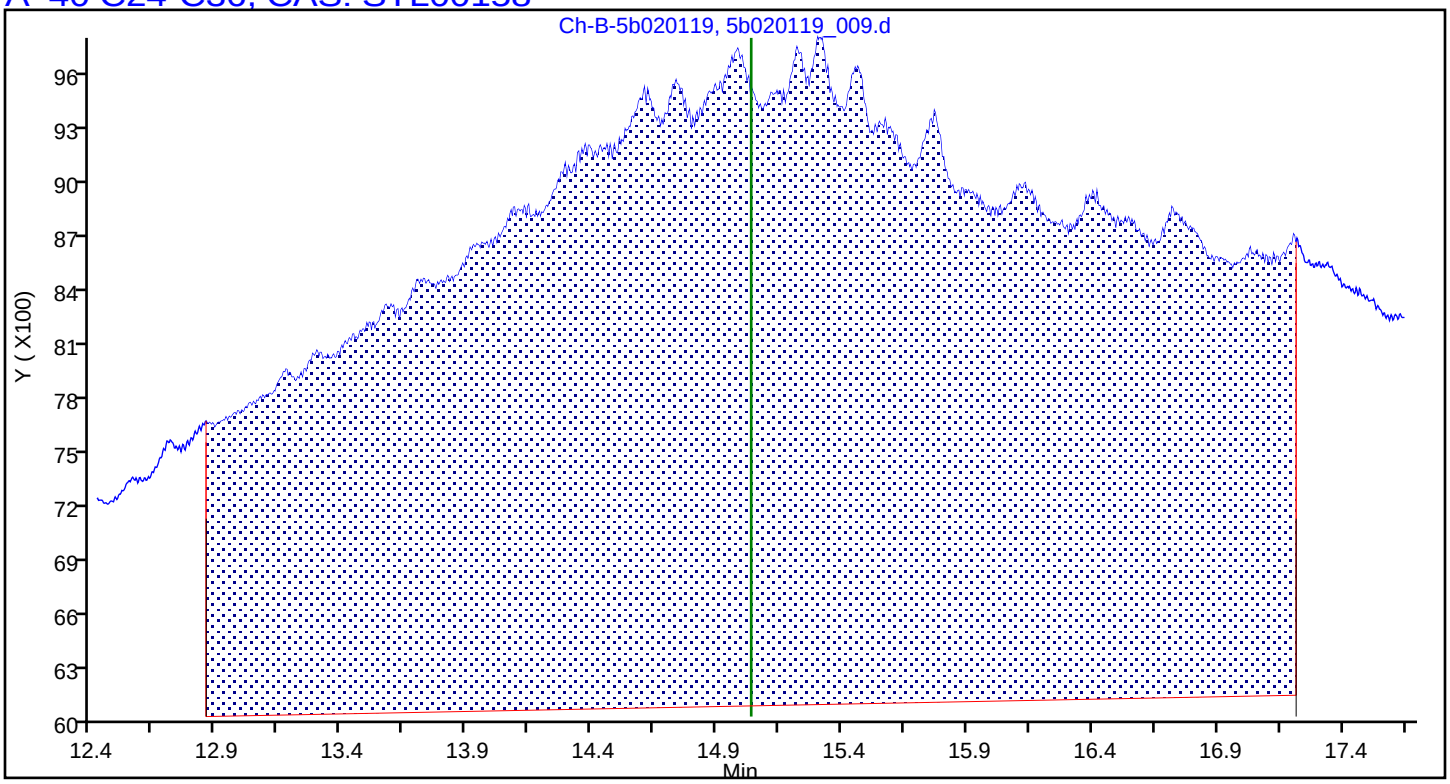


Report Date: 04-Feb-2019 12:53:54 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_009.d				
Injection Date:	01-Feb-2019 12:37:00	Instrument ID:	CHDRO5		
Lims ID:	720-90949-E-12-E	Lab Sample ID:	720-90949-12		
Client ID:	DUP-76				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90949

Chain of Custody Record

188021

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 21 JAN 2019 (CS)	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	____ of ____ COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90949 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-AP9S-0.5-1	1/21/2019	0840	G	S	7	N	N	X	X	X	X	X	X	X	Chromium and PCBs
2	DG-AP9S-3.5-4	1/21/2019	0840			7		N								Short hold
3	DG-AN9S-0.5-1		0950			7		N								
4	DG-AN9S-3.5-4		0950			7		N								
5	DG-AN9S-7-7.5		0950			7		N								
6	DG-AL9S-0.5-1		1010			7 @ 10		Y								
7	DG-AL9S-3.5-4		1010			7		N								
8	DG-AL9S-7-7.5		1010			7		N								
9	DG-Y11S-0.5-1		1120			@ 10?		N								
10	DG-Y11S-3.5-4		1120			7		N								
11	DUP-64		—			7		N								
12	DUP-76	↓	--	↓	↓	7	↓	N	↓	↓	↓	↓	↓	↓	↓	↓

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.5°C, 2.5°C 0.8°C 1.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No ____		
Relinquished by	Company: Geosyntec	Date/Time: 1600 1/21/2019	Received by	Company: TA PLS	Date/Time: 1/21/19 16.00
Relinquished by	Company: TA PLS	Date/Time: 1715 1-21-19	Received by	Company	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/21/19 17.50

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40913.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LUFTMS/5035A_F_FW_T 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_T 8260-CA-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
DS-AP9S-0.5-1 (720-90949-1)	1/21/19	08:40 Pacific		Solid	X	X	3	
DS-AP9S-3.5-4 (720-90949-2)	1/21/19	08:40 Pacific		Solid	X	X		
DS-AN9S-0.5-1 (720-90949-3)	1/21/19	09:50 Pacific		Solid	X	X		
DS-AN9S-3.5-4 (720-90949-4)	1/21/19	09:50 Pacific		Solid	X	X		
DS-AN9S-7-7.5 (720-90949-5)	1/21/19	09:05 Pacific		Solid	X	X		
DS-AL9S-0.5-1 (720-90949-6)	1/21/19	10:10 Pacific		Solid	X	X	2	
DS-AL9S-0.5-1 (720-90949-6MS)	1/21/19	10:10 Pacific	MS	Solid	X	X	2	
DS-AL9S-0.5-1 (720-90949-6MSD)	1/21/19	10:10 Pacific	MSD	Solid	X	X	2	
DS-AL9S-3.5-4 (720-90949-7)	1/21/19	10:10 Pacific		Solid	X	X	3	

720-90949 Chain of Custody

1/21/19

Samples Frozen Time: 1122 Initials: SA

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FedEx 1/0

Relinquished by:	Date/Time: 1/21/19 4:40 PM	Company TA-PLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/22/19 0830	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ▲ Yes ▲ No	Custody Seal No.: 4958 4574 6667
Cooler Temperature(s) °C and Other Remarks	2.1 2.5 WLC

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40913.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	8260B_LUFTMS/5035A_F_PW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_PW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DS-AL9S-7-7.5 (720-90949-8)	1/21/19	10:10 Pacific		Solid	X	X	3	
DS-Y11S-0.5-1 (720-90949-9)	1/21/19	11:20 Pacific		Solid	X	X	3	
DS-Y11S-3.5-4 (720-90949-10)	1/21/19	11:20 Pacific		Solid	X	X	3	
DUP-64 (720-90949-11)	1/21/19	Pacific		Solid	X	X	3	
DUP-76 (720-90949-12)	1/21/19	Pacific		Solid	X	X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX 1/0

Relinquished by:	Date/Time: 1/21/19 4:40PM	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90949

Chain of Custody Record

188021

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 21 JAN 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	____ of ____ COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			720-90949 Chain of Custody
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
1	DG-AP9S-0.5-1	1/21/2019	0840	G	S	7	N	N	X	X	X	X	X	X	X	Chromium and PCBs
2	DG-AP9S-3.5-4	1/21/2019	0840			7		N								Short hold
3	DG-AN9S-0.5-1		0950			7		N								
4	DG-AN9S-3.5-4		0950			7		N								
5	DG-AN9S-7-7.5		0950			7		N								
6	DG-AL9S-0.5-1		1010			@ 10		Y								
7	DG-AL9S-3.5-4		1010			7		N								
8	DG-AL9S-7-7.5		1010			7		N								
9	DG-Y11S-0.5-1		1120			@ 10 7		N								
10	DG-Y11S-3.5-4		1120			7		N								
11	DUP-64		—			7		N								
12	DUP-76		—			7		N								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
0.3°C, 2.3°C, 0.8°C, 1.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1/21/2019 1600	Received by:	Company: TA PLS	Date/Time: 1/21/19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1/21/19 17:12	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/21/19 17:50

Form No. CA-C-WI-002, Rev. 4.16, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No 720-40913.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7-8260-(MOD)-V06++ GRO	8260B/CA_LUFTMS/5035A_F_FW_7-8260-CA-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DS-AP9S-0.5-1 (720-90949-1)	1/21/19	08:40 Pacific		Solid			X	X	X	5	1
DS-AP9S-3.5-4 (720-90949-2)	1/21/19	08:40 Pacific		Solid			X	X	X	5	
DS-AN9S-0.5-1 (720-90949-3)	1/21/19	09:50 Pacific		Solid			X	X	X	5	
DS-AN9S-3.5-4 (720-90949-4)	1/21/19	09:50 Pacific		Solid			X	X	X	5	
DS-AN9S-7-7 5 (720-90949-5)	1/21/19	09:05 Pacific		Solid			X	X	X	5	
DS-AL9S-0.5-1 (720-90949-6)	1/21/19	10.10 Pacific		Solid			X	X	X	4	
DS-AL9S-0.5-1 (720-90949-6MS)	1/21/19	10:10 Pacific	MS	Solid			X	X	X	4	
DS-AL9S-0.5-1 (720-90949-6MSD)	1/21/19	10:10 Pacific	MSD	Solid			X	X	X	3	
DS-AL9S-3.5-4 (720-90949-7)	1/21/19	10:10 Pacific		Solid			X	X	X	5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 1/22/19 1304	Company: TAPL	Received by:	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time: 1/23/19 1000	Company: TA PLV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: Rob 2.9/1.4

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No. 720-40913.2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page. Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90949-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/31/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD)-VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Petr Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DS-AL9S-7-7.5 (720-90949-8)	1/21/19	10:10 Pacific		Solid			X	X	X	6	(1)
DS-Y11S-0.5-1 (720-90949-9)	1/21/19	11:20 Pacific		Solid			X	X	X	6	
DS-Y11S-3 5-4 (720-90949-10)	1/21/19	11:20 Pacific		Solid			X	X	X	6	
DUP-64 (720-90949-11)	1/21/19	Pacific		Solid			X	X	X	6	
DUP-76 (720-90949-12)	1/21/19	Pacific		Solid			X	X	X	6	1/21/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/22/19 1304	TAPLS			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	1/23/19 1000	TA IPV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1866 2.9/1.4

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90959-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Laura Turpen
Project Manager I
2/18/2019 8:23 AM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/18/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
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The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Method 8015B - DRO Sample Data 3
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TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a038.d				
Lims ID:	720-90959-G-1-A				
Client ID:	DG-AL9W				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 00:46:20	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:53:45	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:53:45		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		451905	124.8	
$ 127 n-Octacosane	7.035	7.052	-0.017	542138	147.4	
A 135 C24-C36	7.478	(5.830-9.127)		122459	33.8	

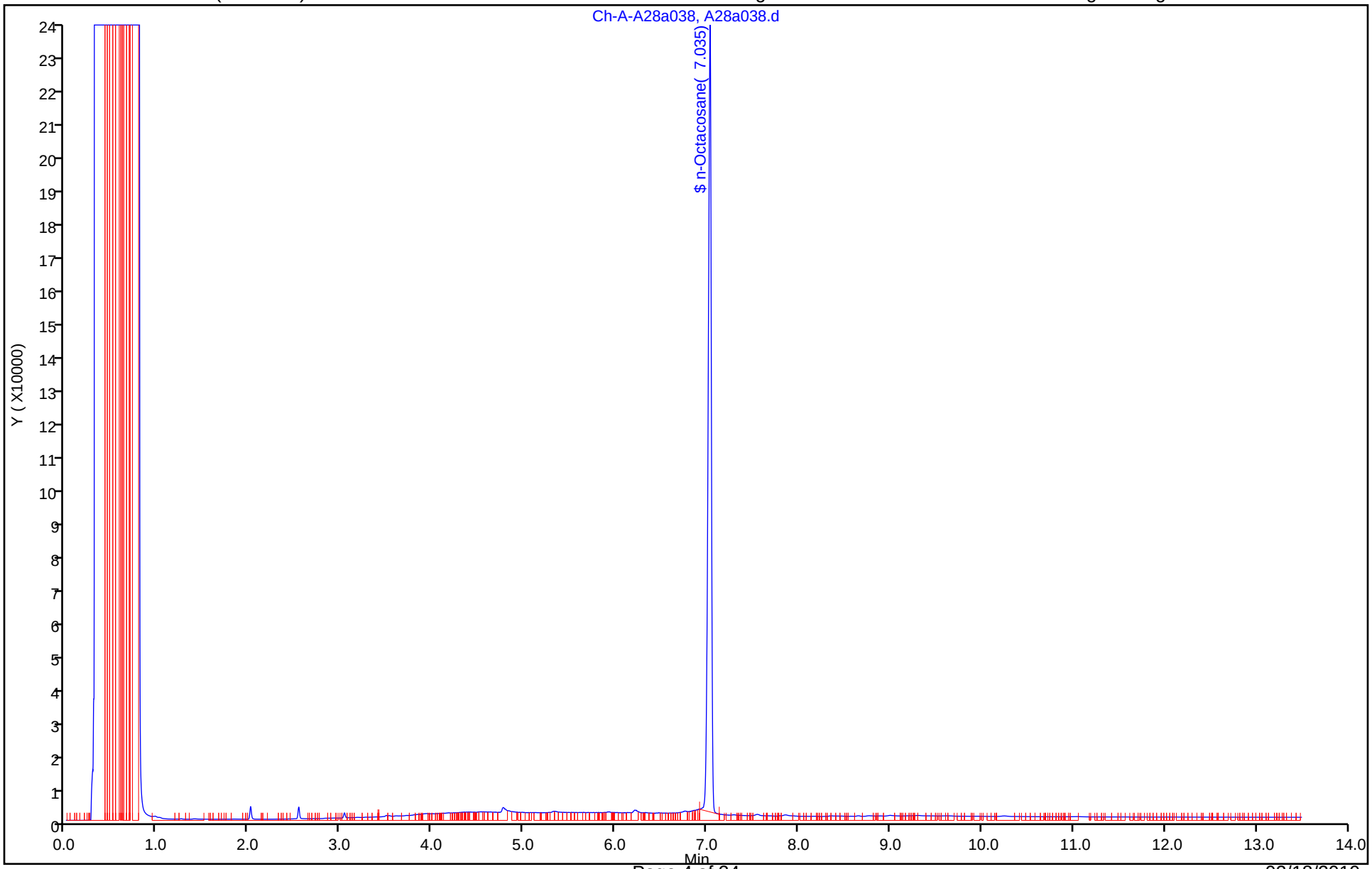
Report Date: 29-Jan-2019 08:53:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a038.d

Injection Date:	29-Jan-2019 00:46:20	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90959-G-1-A	Lab Sample ID:	440-90959-1	Worklist Smp#:	38
Client ID:	DG-AL9W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a038.d				
Lims ID:	720-90959-G-1-A				
Client ID:	DG-AL9W				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 00:46:20	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:53:45	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:53:45

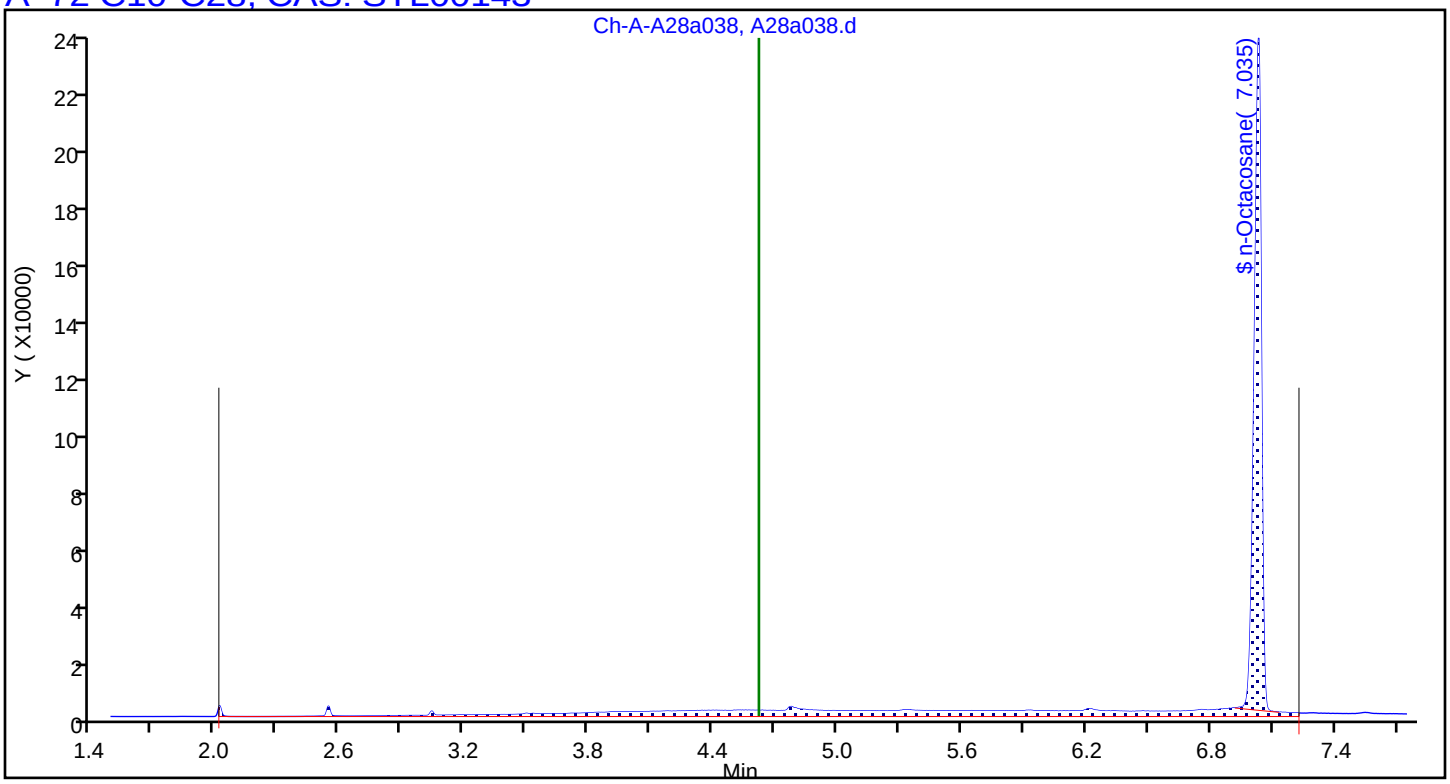
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	147.4	73.68
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:53:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a038.d				
Injection Date:	29-Jan-2019 00:46:20	Instrument ID:	GC70A		
Lims ID:	720-90959-G-1-A	Lab Sample ID:	440-90959-1		
Client ID:	DG-AL9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

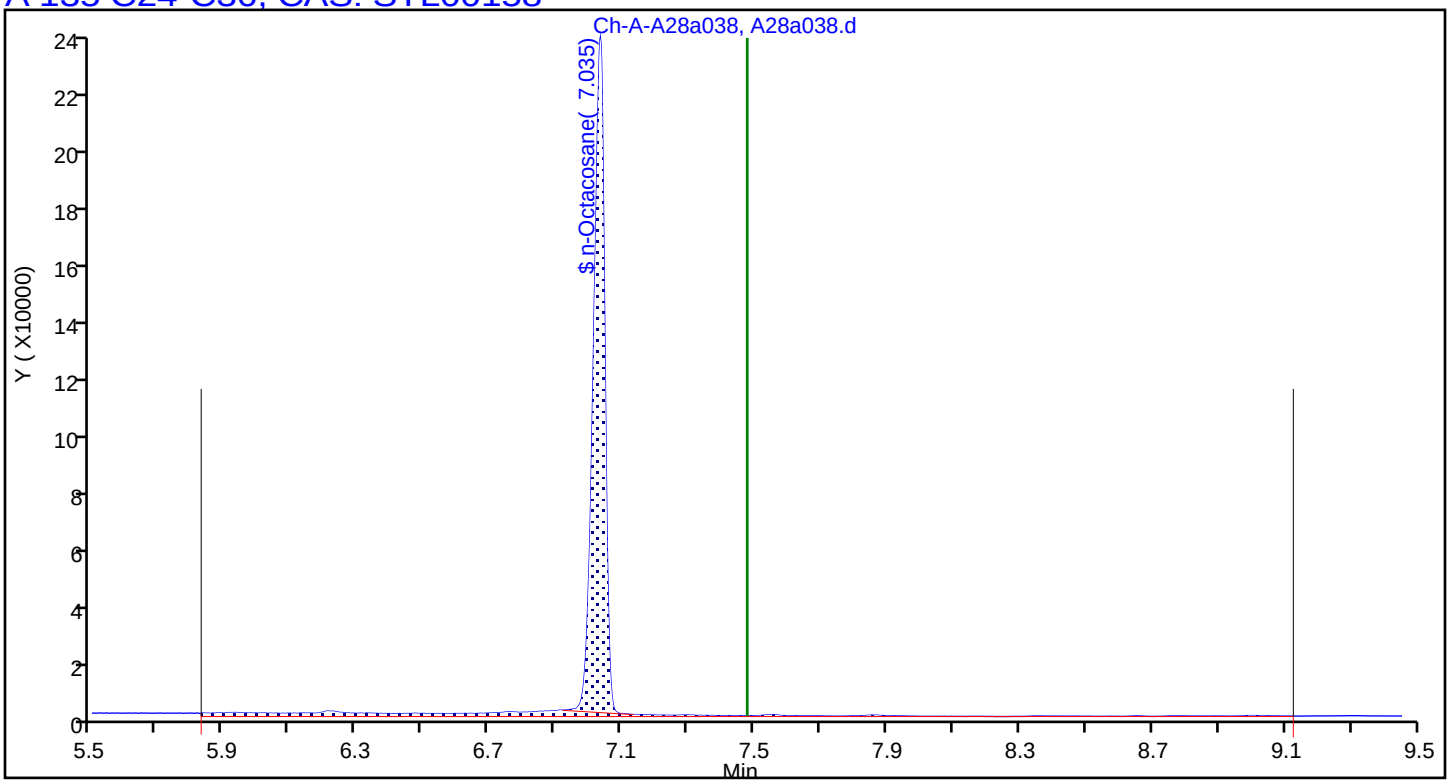


Report Date: 29-Jan-2019 08:53:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a038.d				
Injection Date:	29-Jan-2019 00:46:20	Instrument ID:	GC70A		
Lims ID:	720-90959-G-1-A	Lab Sample ID:	440-90959-1		
Client ID:	DG-AL9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a027.d				
Lims ID:	720-90959-G-2-A				
Client ID:	DG-AE11W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 20:49:59	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:50:30	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:50:30		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		19803913	5467.5	
$ 127 n-Octacosane	7.042	7.052	-0.010	304972	82.9	
A 135 C24-C36	7.478	(5.830-9.127)		2927075	808.1	

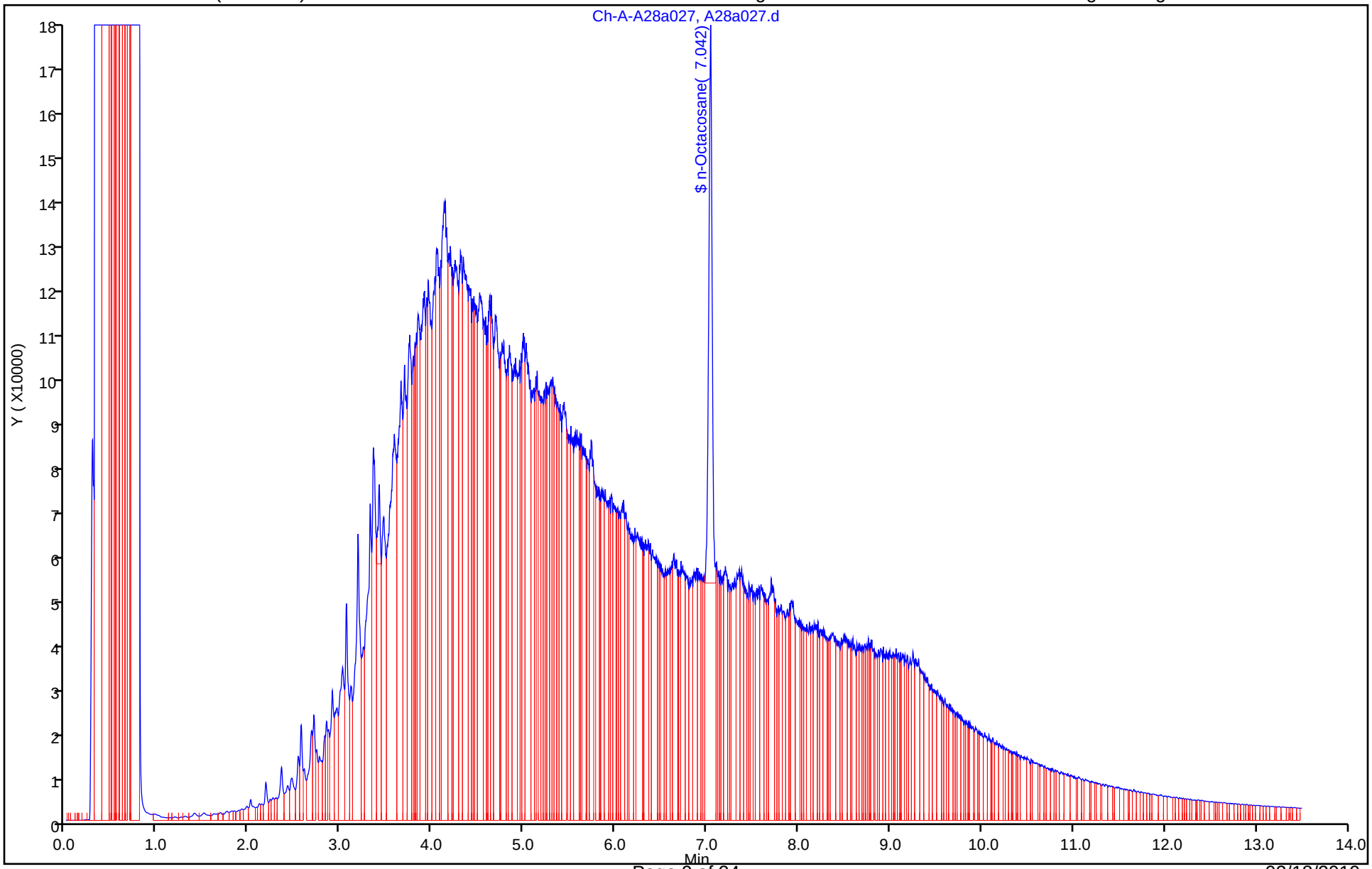
Report Date: 29-Jan-2019 08:50:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a027.d

Injection Date:	28-Jan-2019 20:49:59	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90959-G-2-A	Lab Sample ID:	440-90959-2	Worklist Smp#:	27
Client ID:	DG-AE11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a027.d				
Lims ID:	720-90959-G-2-A				
Client ID:	DG-AE11W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 20:49:59	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:50:30	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:50:30

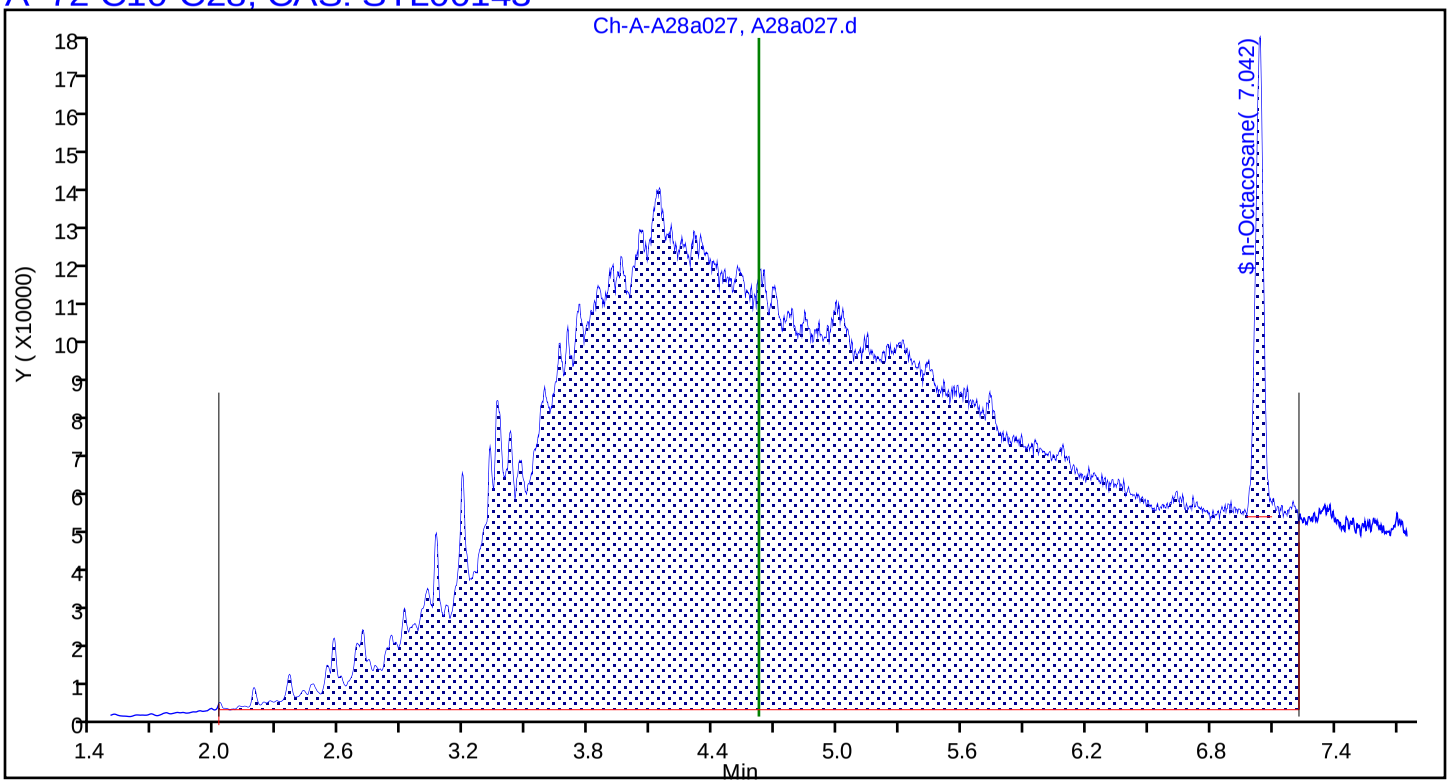
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	82.9	82.90
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:50:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a027.d				
Injection Date:	28-Jan-2019 20:49:59	Instrument ID:	GC70A		
Lims ID:	720-90959-G-2-A	Lab Sample ID:	440-90959-2		
Client ID:	DG-AE11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

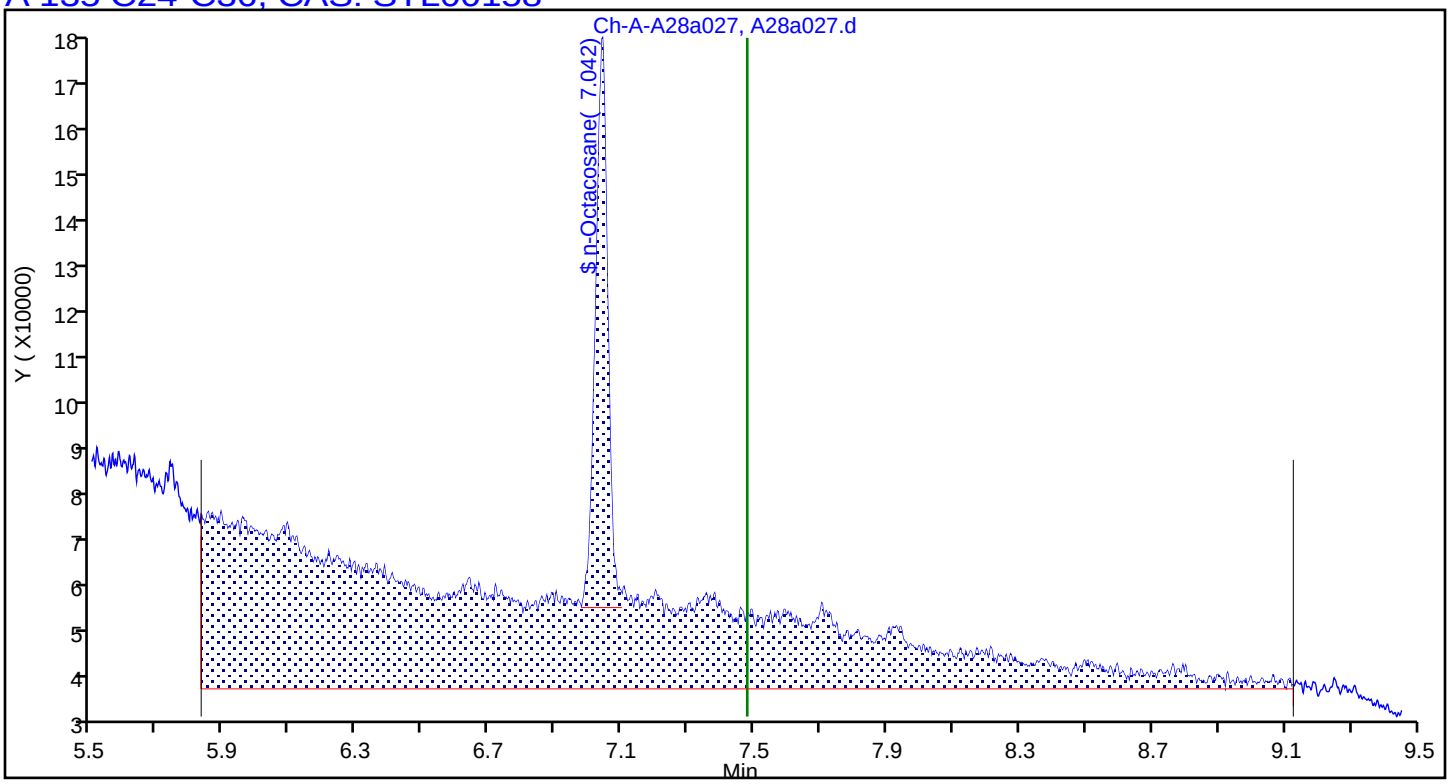


Report Date: 29-Jan-2019 08:50:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a027.d				
Injection Date:	28-Jan-2019 20:49:59	Instrument ID:	GC70A		
Lims ID:	720-90959-G-2-A	Lab Sample ID:	440-90959-2		
Client ID:	DG-AE11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a028.d				
Lims ID:	720-90959-G-3-A				
Client ID:	DG-AG11W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 21:11:27	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:50:44	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:50:44		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		24594798	6790.1	
$ 127 n-Octacosane	7.053	7.052	0.001	640457	174.1	
A 135 C24-C36	7.478	(5.830-9.127)		4203481	1160.5	

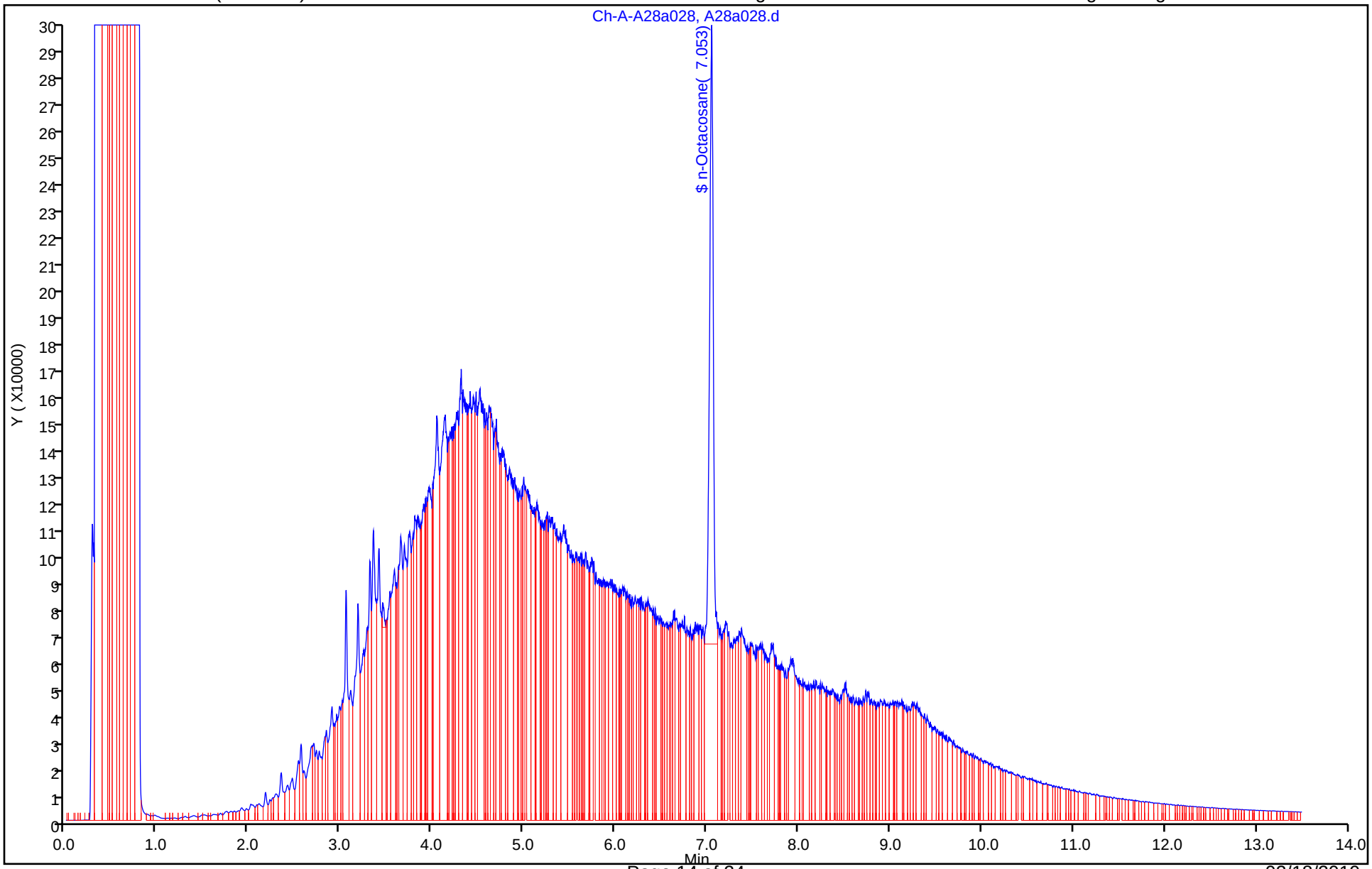
Report Date: 29-Jan-2019 08:50:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a028.d

Injection Date:	28-Jan-2019 21:11:27	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90959-G-3-A	Lab Sample ID:	440-90959-3	Worklist Smp#:	28
Client ID:	DG-AG11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a028.d				
Lims ID:	720-90959-G-3-A				
Client ID:	DG-AG11W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 21:11:27	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:50:44	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:50:44

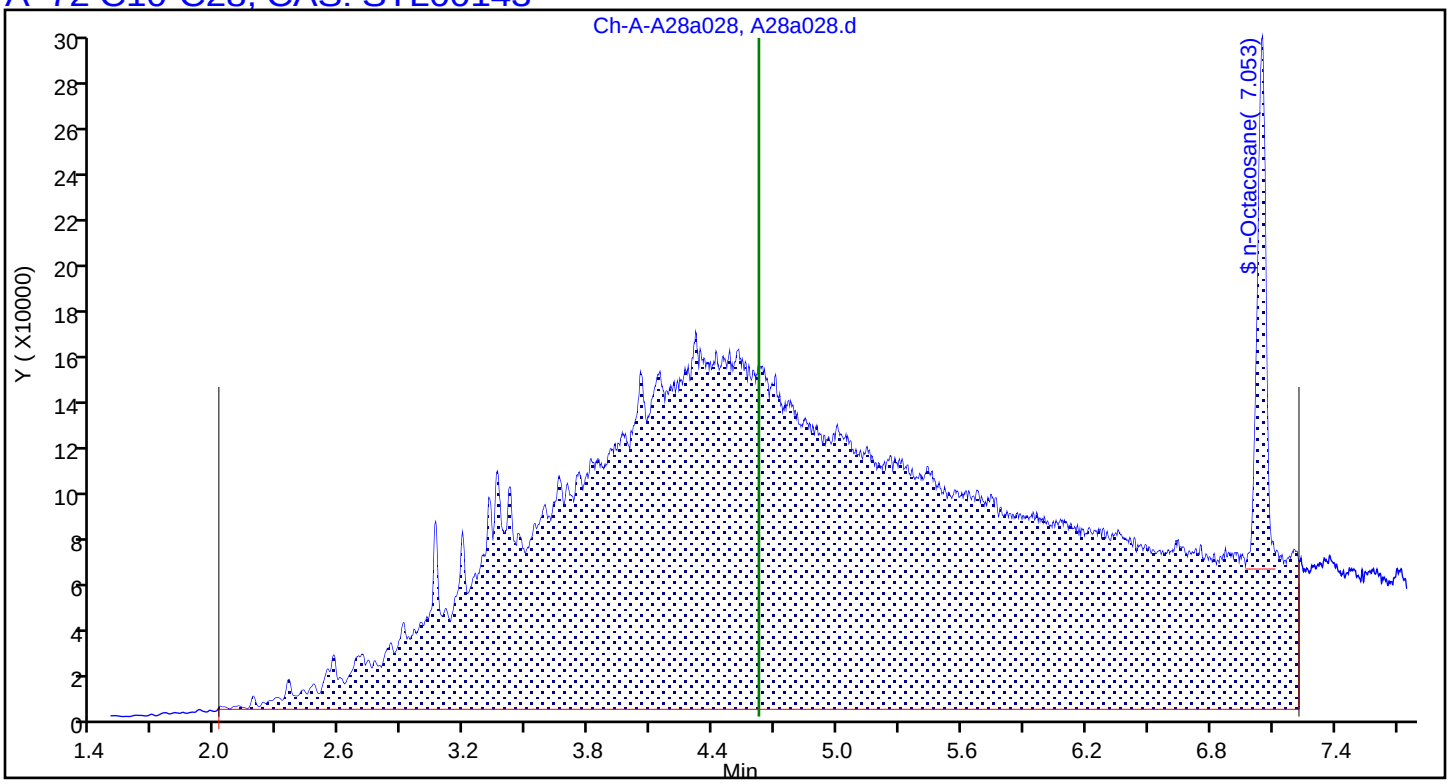
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	174.1	87.05
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:50:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a028.d				
Injection Date:	28-Jan-2019 21:11:27	Instrument ID:	GC70A		
Lims ID:	720-90959-G-3-A	Lab Sample ID:	440-90959-3		
Client ID:	DG-AG11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

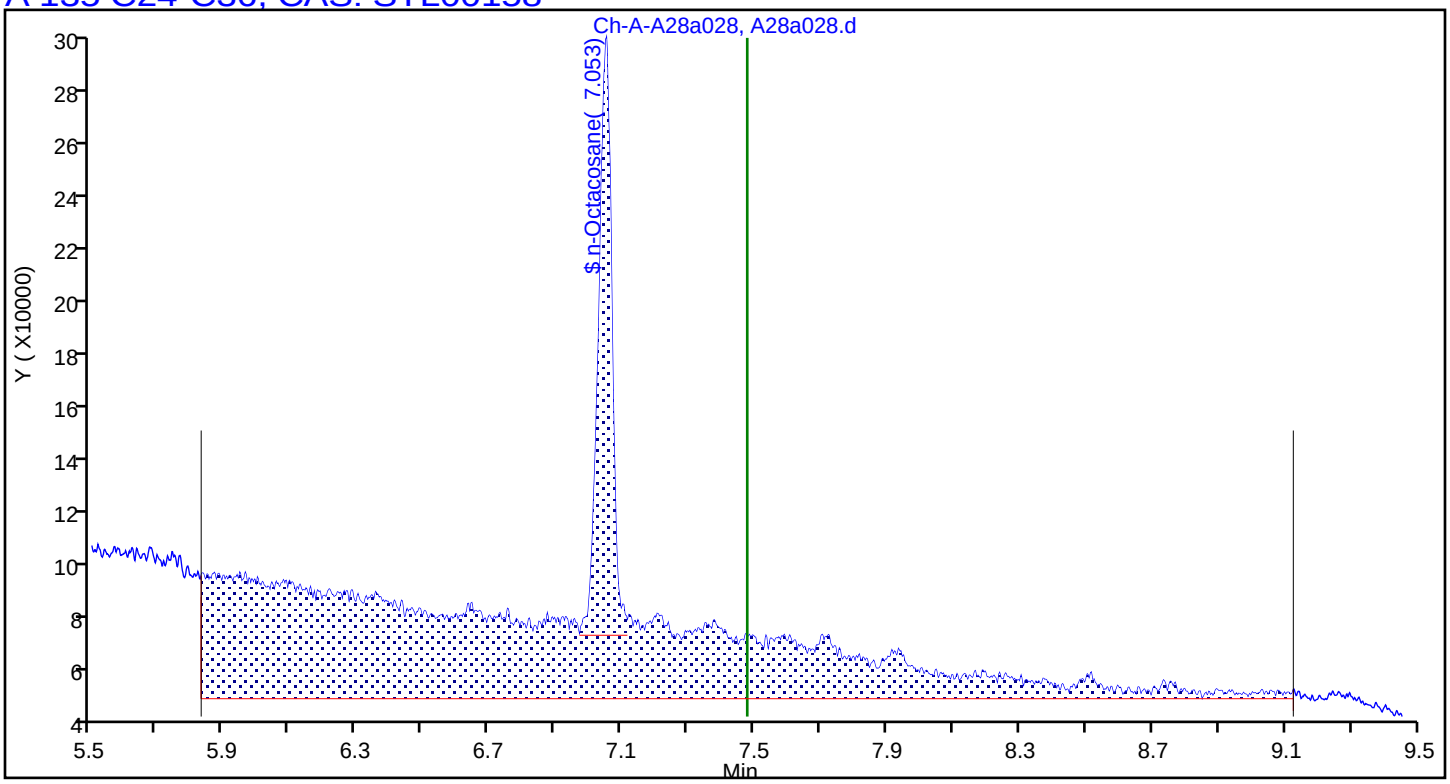


Report Date: 29-Jan-2019 08:50:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a028.d				
Injection Date:	28-Jan-2019 21:11:27	Instrument ID:	GC70A		
Lims ID:	720-90959-G-3-A	Lab Sample ID:	440-90959-3		
Client ID:	DG-AG11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a029.d				
Lims ID:	720-90959-E-4-A				
Client ID:	DG-Y11W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 21:32:59	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:50:57	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:50:57		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		24517428	6768.8	
$ 127 n-Octacosane	7.042	7.052	-0.010	565857	153.8	
A 135 C24-C36	7.478	(5.830-9.127)		1887161	521.0	

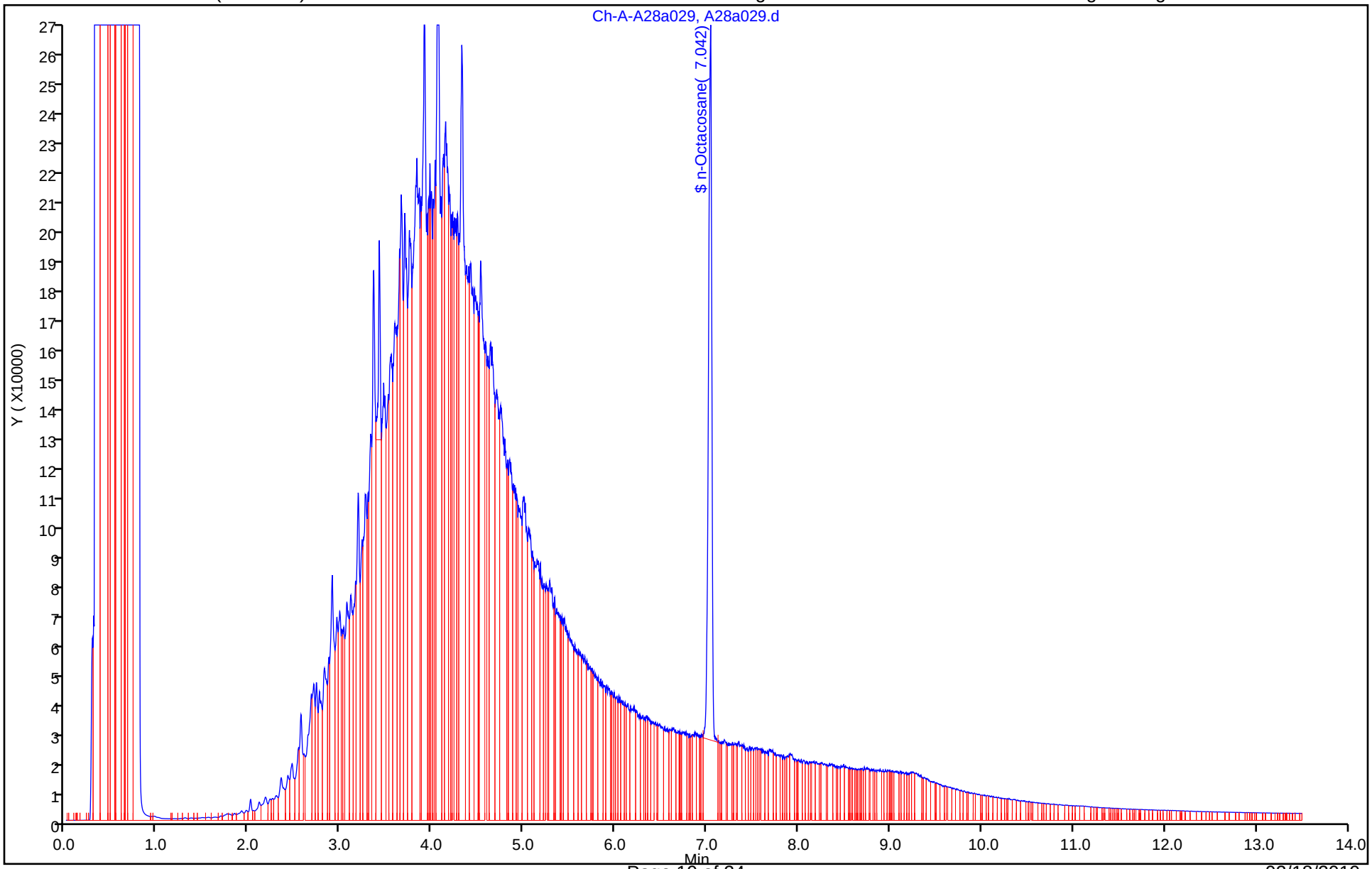
Report Date: 29-Jan-2019 08:50:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a029.d

Injection Date:	28-Jan-2019 21:32:59	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90959-E-4-A	Lab Sample ID:	440-90959-4	Worklist Smp#:	29
Client ID:	DG-Y11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a029.d				
Lims ID:	720-90959-E-4-A				
Client ID:	DG-Y11W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 21:32:59	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:50:57	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:50:57

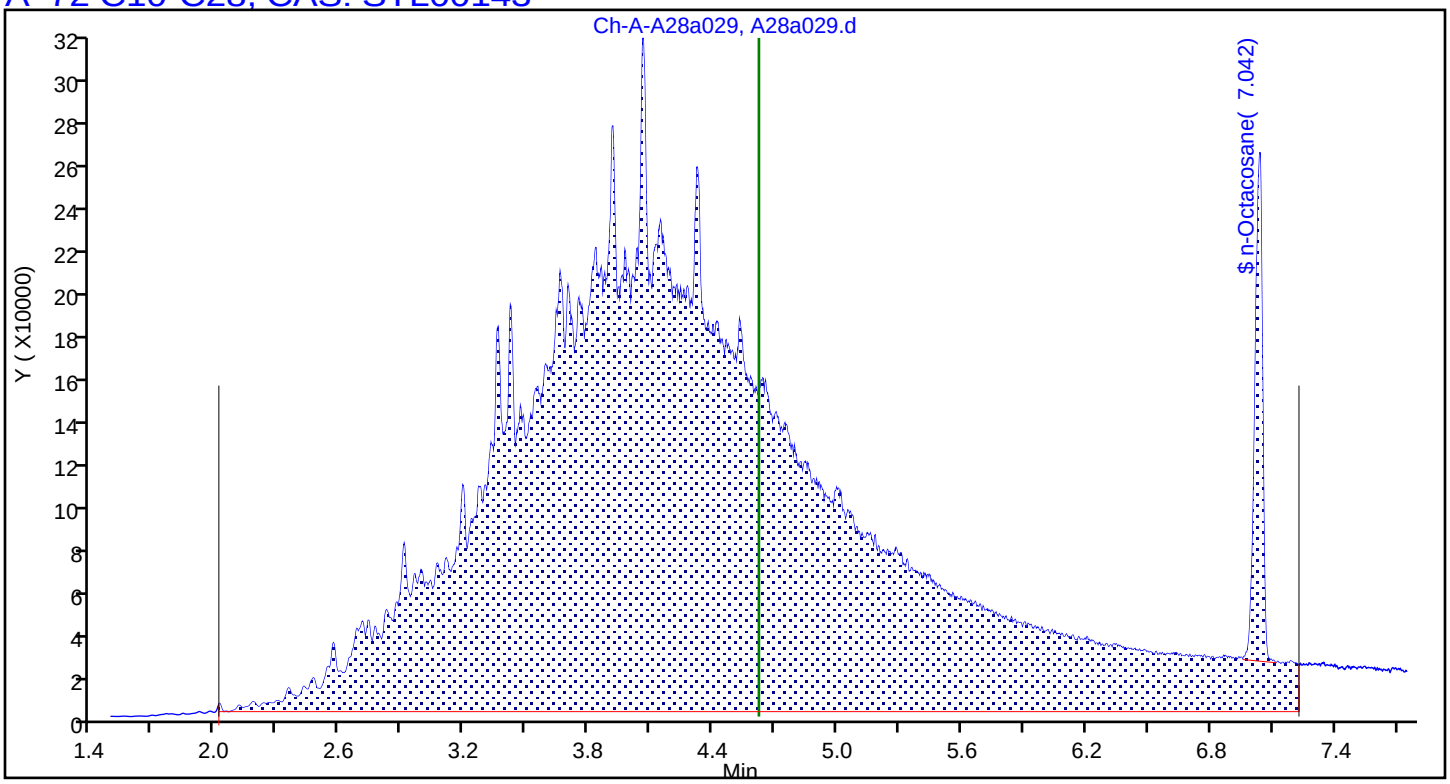
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	153.8	76.91
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:50:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a029.d				
Injection Date:	28-Jan-2019 21:32:59	Instrument ID:	GC70A		
Lims ID:	720-90959-E-4-A	Lab Sample ID:	440-90959-4		
Client ID:	DG-Y11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

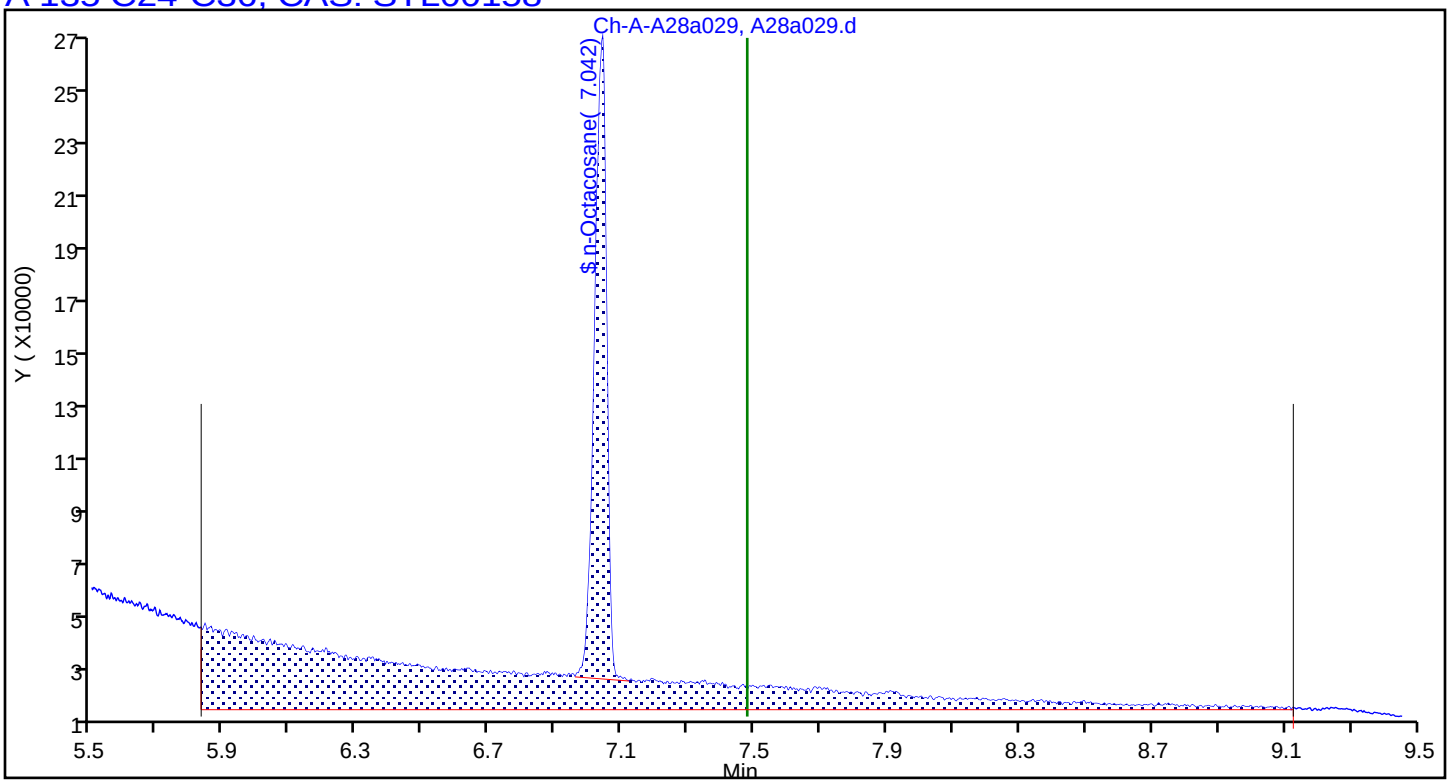


Report Date: 29-Jan-2019 08:50:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a029.d				
Injection Date:	28-Jan-2019 21:32:59	Instrument ID:	GC70A		
Lims ID:	720-90959-E-4-A	Lab Sample ID:	440-90959-4		
Client ID:	DG-Y11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90959

Chain of Custody Record

188045

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 22 JAN 2019	COC No 188045
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	2 weeks			
Project Name. Brisbane OU2 Investigation	1 week			
Site. Brisbane OU2	2 days			
P O # WG2619/ TA project # 72013947	1 day			

720-90959 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1. DG-AL9W	1/22/2019	0820	G	GW	9	Y	N	X	X	X	X	X	Metals and chromium samples filtered
2. ~~DG-AM11W~~ DG-AE11W	↓	1330	↓	↓	9	Y	N	↓	↓	↓	↓	↓	↓
3 DG-AG11W	↓	1420	↓	↓	9	Y	N	↓	↓	↓	↓	↓	↓
4 DG-Y11W	↓	1040	↓	↓	9	Y	N	↓	↓	↓	↓	↓	↓
5 FB 0122	↓	1600	↓	↓	2	Y	N	↓	↓	↓	↓	↓ (5)	↓
6 TB-0122	↓	1600	↓	↓	1	Y	N	↓	↓	↓	↓	↓ (5)	↓
7 TB-0122-2	↓	1600	↓	↓	1	Y	N	↓	↓	↓	↓	↓ (5)	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No			Cooler Temp. (°C) Obs'd _____ Corr'd _____		Therm ID No. _____
Relinquished by	Company	Date/Time		Received by	Company	Date/Time
Relinquished by	Company	Date/Time		Received by	Company	Date/Time
Relinquished by	Company	Date/Time		Received in Laboratory by	Company	Date/Time
					TA-PLS	1/22/19 1840

1/22/19

2.2 | 1.3 | 1.8 | 3.8 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/19/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

02/18/2019

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645742613	COC No: 720-40919.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90959-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AL9W (720-90959-1)	1/22/19	08:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AE11W (720-90959-2)	1/22/19	13:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AG11W (720-90959-3)	1/22/19	14:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Y11W (720-90959-4)	1/22/19	10:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-0122 (720-90959-5)	1/22/19	16:00 Pacific		Water			X	X			2	check for 2 phases
TB-0122 (720-90959-6)	1/22/19	16:00 Pacific		Water			X	X			1	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/23/19 1259	FAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/24/19 9:45	Company TA-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4/1.8 IR93 05/09 IR-93

Ver: 09/20/2016

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Job Number: 720-90960-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
4/14/2019 7:52 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
(949)260-3269
urvashi.patel@testamericainc.com
04/14/2019
Revision: 1

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits
W	PS: Post-digestion spike was outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
720-90960-1

Comments
Revision created to report corrected Thallium results. See letter in correspondence for detailed explanation.

Receipt
The samples were received on 1/22/2019 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 1.8º C, 2.2º C and 3.8º C.

Metals
Method 7471A: The method blank for preparation batch 720-259166 and analytical batch 720-259511 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: : DG-AV12S-0.5-1 (720-90960-1), DG-AV12S-3.5-4 (720-90960-2), DG-AV12S-19.5-20 (720-90960-3), DG-AP14S-0.5-1 (720-90960-4), DG-AP14S-3.5-4 (720-90960-5), DG-AM14S-1-1.5 (720-90960-6), DG-AL14S-0.5-1 (720-90960-7), DG-AL14S-3.5-4 (720-90960-8), DG-AK14S-0.5-1 (720-90960-9), DG-AK14S-3.5-4 (720-90960-10), DG-AK16S-0.5-1 (720-90960-11), DG-AL16S-0.5-1 (720-90960-13), DG-AL15S-1-1.5 (720-90960-14), DG-AJ14S-0.5-1 (720-90960-15), DG-AJ14S-3.5-4 (720-90960-16), DG-AJ15S-0.5-1 (720-90960-17), DG-AJ15S-3.5-4 (720-90960-18), DG-AI16S-1-1.5 (720-90960-19), DG-AI17S-0.5-1 (720-90960-20), DG-AI17S-3.5-4 (720-90960-21), DG-AH15S-0.5-1 (720-90960-22), DG-AH16S-0.5-1 (720-90960-23), DG-AH16S-3.5-4 (720-90960-24), DUP-104 (720-90960-25), DUP-103 (720-90960-26), DUP-120 (720-90960-27), DG-AG16S-0.5-1 (720-90960-28) and DG-AG16S-3.5-4 (720-90960-29). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259167 and analytical batch 720-259583 contained Barium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259167 and analytical batch 720-259583 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259583 was outside control limits for Cobalt-14%, Chromium-11%, and Lead-13%: (720-90960-A-12-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AK16S-3.5-4 (720-90960-12), DG-AK16S-3.5-4 (720-90960-12[MS]), DG-AK16S-3.5-4 (720-90960-12[MSD]), (720-90960-A-12-F PDS) and (720-90960-A-12-F SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259583 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed. Affected sample results for these compounds have been qualified with a "^" symbol .

Method 6010B: Internal standard responses were outside of acceptance limits for the following samples: (ICSA 720-259535/7) and (ICSAB 720-259535/8). The associated sample internal standard recoveries were all within limits.

Method 6010B: The method blank for preparation batch 720-259153 and analytical batch 720-259616 contained Silver, Nickel, Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259153 and analytical batch 720-259616 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-157%, Beryllium-127%, Chromium- 132%,Copper-170%, Lead-126%, Vanadium-126%, Zinc-139% associated with batch 720-259616 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259616 was outside control limits for Arsenic-14%, Barium-18%, Cadmium-44%, Chromium-18%,Copper-17%, Vanadium-22%: (720-90956-A-9-H SD)

Method 6010B: Internal standard responses were outside of acceptance limits for the ICSA/ICSAB, but target analyte recoveries passed criteria: (ICSA 720-259656/7) and (ICSAB 720-259656/8).

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-259661 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 720-259661/5). Affected sample results for these compounds have been qualified with a "^" symbol .

Method 6010B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DG-AV12S-0.5-1 (720-90960-1) and DG-AP14S-3.5-4 (720-90960-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AV12S-0.5-1
Lab Sample ID: 720-90960-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	5.2		3.6	0.60	mg/Kg	10		6010B	Total/NA
Arsenic	21		7.2	0.62	mg/Kg	10		6010B	Total/NA
Barium	310		1.4	0.21	mg/Kg	4		6010B	Total/NA
Beryllium	0.81		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.91	0.090	mg/Kg	10		6010B	Total/NA
Chromium	730		3.6	0.38	mg/Kg	10		6010B	Total/NA
Cobalt	19		1.4	0.14	mg/Kg	10		6010B	Total/NA
Copper	180		11	5.2	mg/Kg	10		6010B	Total/NA
Lead	230		3.6	0.76	mg/Kg	10		6010B	Total/NA
Molybdenum	3.5		1.4	0.19	mg/Kg	4		6010B	Total/NA
Nickel	55	B	3.6	0.37	mg/Kg	10		6010B	Total/NA
Selenium	1.7	J B	7.2	1.1	mg/Kg	10		6010B	Total/NA
Vanadium	55		3.6	0.49	mg/Kg	10		6010B	Total/NA
Zinc	750		11	4.6	mg/Kg	10		6010B	Total/NA
Mercury	0.60		0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV12S-3.5-4
Lab Sample ID: 720-90960-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.81	J	1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	9.9		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	100		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.28	0.091	mg/Kg	4		6010B	Total/NA
Cadmium	0.095	J	0.35	0.035	mg/Kg	4		6010B	Total/NA
Chromium	70		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	48		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	6.3		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	48	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Selenium	0.54	J B	2.8	0.42	mg/Kg	4		6010B	Total/NA
Silver	0.17	J B	0.70	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	74		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	48		4.2	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.082		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AV12S-19.5-20
Lab Sample ID: 720-90960-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	9.3		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	150		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.24	0.078	mg/Kg	4		6010B	Total/NA
Cadmium	0.21	J	0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	51		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	35		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	6.7		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.19	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	48	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J B	2.4	0.36	mg/Kg	4		6010B	Total/NA
Silver	0.22	J B	0.60	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	67		1.2	0.16	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV12S-19.5-20 (Continued) Lab Sample ID: 720-90960-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	87		3.6	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP14S-0.5-1 Lab Sample ID: 720-90960-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	96		1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.24	0.076	mg/Kg	4		6010B	Total/NA
Cadmium	0.16	J	0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	50		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	27		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	42		1.2	0.25	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.2	0.15	mg/Kg	4		6010B	Total/NA
Nickel	33	B	1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	0.83	J B	2.4	0.35	mg/Kg	4		6010B	Total/NA
Silver	0.23	J B	0.59	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	51		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	62		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.061		0.015	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AP14S-3.5-4 Lab Sample ID: 720-90960-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.2		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	16		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	73		1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.32	J	0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.13	J	0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	42		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	5.5		0.72	0.072	mg/Kg	4		6010B	Total/NA
Copper	69		5.4	2.6	mg/Kg	4		6010B	Total/NA
Lead	12		1.8	0.38	mg/Kg	4		6010B	Total/NA
Molybdenum	0.27	J	1.8	0.23	mg/Kg	4		6010B	Total/NA
Nickel	24	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Selenium	0.63	J B	3.6	0.54	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	34		5.4	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.098		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AM14S-1-1.5 Lab Sample ID: 720-90960-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.50	J	1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		3.0	0.26	mg/Kg	4		6010B	Total/NA
Barium	47		1.5	0.21	mg/Kg	4		6010B	Total/NA
Cadmium	0.12	J	0.38	0.037	mg/Kg	4		6010B	Total/NA
Chromium	77		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.60	0.060	mg/Kg	4		6010B	Total/NA
Copper	32		4.5	2.1	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AM14S-1-1.5 (Continued) Lab Sample ID: 720-90960-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	41	B	1.5	0.15	mg/Kg	4		6010B	Total/NA
Vanadium	60		1.5	0.20	mg/Kg	4		6010B	Total/NA
Zinc	34		4.5	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.021		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL14S-0.5-1 Lab Sample ID: 720-90960-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	13		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	61		1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.86		0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.19	J	0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	53		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	17		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	30		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	5.1		1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	4.3		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	38	B	1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.3	J B	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	0.48	J B	0.80	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	57		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	63		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.032		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL14S-3.5-4 Lab Sample ID: 720-90960-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	3.7		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	80		1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.10	J	0.29	0.093	mg/Kg	4		6010B	Total/NA
Cadmium	0.14	J	0.36	0.035	mg/Kg	4		6010B	Total/NA
Chromium	67		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	21		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	11		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	36	B	1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.46	J B	2.9	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	62		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	35		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK14S-0.5-1 Lab Sample ID: 720-90960-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.7		1.4	0.23	mg/Kg	4		6010B	Total/NA
Arsenic	19		2.8	0.23	mg/Kg	4		6010B	Total/NA
Barium	130		1.4	0.20	mg/Kg	4		6010B	Total/NA
Cadmium	1.0		0.34	0.034	mg/Kg	4		6010B	Total/NA
Chromium	390		1.4	0.15	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK14S-0.5-1 (Continued) Lab Sample ID: 720-90960-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.8		0.55	0.055	mg/Kg	4		6010B	Total/NA
Copper	130		4.1	2.0	mg/Kg	4		6010B	Total/NA
Lead	230		1.4	0.29	mg/Kg	4		6010B	Total/NA
Nickel	27	B	1.4	0.14	mg/Kg	4		6010B	Total/NA
Silver	0.37	J B	0.69	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	330		4.1	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.29		0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK14S-3.5-4 Lab Sample ID: 720-90960-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.91	J	1.9	0.31	mg/Kg	4		6010B	Total/NA
Arsenic	1.7	J	3.7	0.32	mg/Kg	4		6010B	Total/NA
Barium	110		1.9	0.27	mg/Kg	4		6010B	Total/NA
Cadmium	0.24	J	0.47	0.046	mg/Kg	4		6010B	Total/NA
Chromium	42		1.9	0.20	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.75	0.075	mg/Kg	4		6010B	Total/NA
Copper	42		5.6	2.7	mg/Kg	4		6010B	Total/NA
Lead	11		1.9	0.39	mg/Kg	4		6010B	Total/NA
Nickel	35	B	1.9	0.19	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J B	3.7	0.56	mg/Kg	4		6010B	Total/NA
Silver	0.24	J B	0.93	0.19	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.9	0.25	mg/Kg	4		6010B	Total/NA
Zinc	65		5.6	2.4	mg/Kg	4		6010B	Total/NA
Mercury	0.051		0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK16S-0.5-1 Lab Sample ID: 720-90960-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		3.5	0.30	mg/Kg	4		6010B	Total/NA
Barium	63		1.8	0.25	mg/Kg	4		6010B	Total/NA
Cadmium	0.25	J	0.44	0.044	mg/Kg	4		6010B	Total/NA
Chromium	63		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	7.0		0.71	0.071	mg/Kg	4		6010B	Total/NA
Copper	21		5.3	2.5	mg/Kg	4		6010B	Total/NA
Lead	50		1.8	0.37	mg/Kg	4		6010B	Total/NA
Nickel	33	B	1.8	0.18	mg/Kg	4		6010B	Total/NA
Silver	0.20	J B	0.88	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	46		1.8	0.24	mg/Kg	4		6010B	Total/NA
Zinc	91		5.3	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.18		0.015	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AK16S-3.5-4 Lab Sample ID: 720-90960-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.2	F1	1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	11		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	130	F2 B	1.2	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.25	0.080	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.31	0.031	mg/Kg	4		6010B	Total/NA
Chromium	48		1.2	0.13	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AK16S-3.5-4 (Continued) Lab Sample ID: 720-90960-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	13		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	25		3.7	1.8	mg/Kg	4		6010B	Total/NA
Lead	49	F2 F1 B ^	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.23	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	30		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	0.84	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Thallium	0.46	J	1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	49		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	76	F1	3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL16S-0.5-1 Lab Sample ID: 720-90960-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.4		1.6	0.27	mg/Kg	4		6010B	Total/NA
Arsenic	5.9		3.2	0.27	mg/Kg	4		6010B	Total/NA
Barium	150	B	1.6	0.23	mg/Kg	4		6010B	Total/NA
Beryllium	0.30	J	0.32	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	1.5		0.40	0.040	mg/Kg	4		6010B	Total/NA
Chromium	160		1.6	0.17	mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.64	0.064	mg/Kg	4		6010B	Total/NA
Copper	49		4.8	2.3	mg/Kg	4		6010B	Total/NA
Lead	390	B	1.6	0.34	mg/Kg	4		6010B	Total/NA
Molybdenum	4.9		1.6	0.20	mg/Kg	4		6010B	Total/NA
Nickel	44		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.2	J	3.2	0.48	mg/Kg	4		6010B	Total/NA
Silver	3.4		0.80	0.16	mg/Kg	4		6010B	Total/NA
Vanadium	44		1.6	0.22	mg/Kg	4		6010B	Total/NA
Zinc	320		4.8	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.14	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AL15S-1-1.5 Lab Sample ID: 720-90960-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.6		1.1	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	5.0		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	170	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.32		0.22	0.073	mg/Kg	4		6010B	Total/NA
Cadmium	0.63		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	230		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	57		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	87	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Molybdenum	0.18	J	1.1	0.14	mg/Kg	4		6010B	Total/NA
Nickel	36		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	0.64	J	2.2	0.34	mg/Kg	4		6010B	Total/NA
Vanadium	45		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	250		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.28	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AJ14S-0.5-1 Lab Sample ID: 720-90960-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.5		1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	5.4		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	92	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.41		0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.40		0.36	0.036	mg/Kg	4		6010B	Total/NA
Chromium	90		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	27		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	27	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	100		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.82	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Thallium	0.63	J	1.4	0.42	mg/Kg	4		6010B	Total/NA
Vanadium	69		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	56		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.052	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ14S-3.5-4 Lab Sample ID: 720-90960-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.7		1.0	0.17	mg/Kg	4		6010B	Total/NA
Arsenic	2.0		2.0	0.17	mg/Kg	4		6010B	Total/NA
Barium	80	B	1.0	0.14	mg/Kg	4		6010B	Total/NA
Beryllium	0.17	J	0.20	0.066	mg/Kg	4		6010B	Total/NA
Cadmium	0.18	J	0.25	0.025	mg/Kg	4		6010B	Total/NA
Chromium	56		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	6.1		0.40	0.040	mg/Kg	4		6010B	Total/NA
Copper	7.6		3.0	1.4	mg/Kg	4		6010B	Total/NA
Lead	5.6	B	1.0	0.21	mg/Kg	4		6010B	Total/NA
Nickel	20		1.0	0.10	mg/Kg	4		6010B	Total/NA
Selenium	0.98	J	2.0	0.30	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	25		3.0	1.3	mg/Kg	4		6010B	Total/NA
Mercury	0.014	J B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AJ15S-0.5-1 Lab Sample ID: 720-90960-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.3		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	3.1	J	3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	160	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.43	0.042	mg/Kg	4		6010B	Total/NA
Chromium	41		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	22		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	48		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	6.3	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	32		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.1	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	120		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	71		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.057	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AJ15S-3.5-4 Lab Sample ID: 720-90960-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.6	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	2.2	J	3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	66	B	1.6	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.41		0.39	0.038	mg/Kg	4		6010B	Total/NA
Chromium	88		1.6	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	6.3		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	13		4.7	2.2	mg/Kg	4		6010B	Total/NA
Lead	2.6	B	1.6	0.33	mg/Kg	4		6010B	Total/NA
Nickel	31		1.6	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.1	J	3.1	0.47	mg/Kg	4		6010B	Total/NA
Vanadium	64		1.6	0.21	mg/Kg	4		6010B	Total/NA
Zinc	50		4.7	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.068	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI16S-1-1.5 Lab Sample ID: 720-90960-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	0.89	J	2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	370	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.49		0.26	0.084	mg/Kg	4		6010B	Total/NA
Cadmium	0.43		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	37		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.52	0.052	mg/Kg	4		6010B	Total/NA
Copper	75		3.9	1.8	mg/Kg	4		6010B	Total/NA
Lead	5.4	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Nickel	31		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.8	J	2.6	0.39	mg/Kg	4		6010B	Total/NA
Vanadium	82		1.3	0.18	mg/Kg	4		6010B	Total/NA
Zinc	57		3.9	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.16	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AI17S-0.5-1 Lab Sample ID: 720-90960-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.1		1.7	0.28	mg/Kg	4		6010B	Total/NA
Arsenic	15		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	92	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	1.0		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.72		0.42	0.042	mg/Kg	4		6010B	Total/NA
Chromium	48		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	18		0.68	0.068	mg/Kg	4		6010B	Total/NA
Copper	49		5.1	2.4	mg/Kg	4		6010B	Total/NA
Lead	25	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Molybdenum	0.26	J	1.7	0.22	mg/Kg	4		6010B	Total/NA
Nickel	47		1.7	0.17	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	3.4	0.51	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	180		5.1	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.029	B	0.015	0.0021	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AI17S-3.5-4 Lab Sample ID: 720-90960-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.4		1.7	0.29	mg/Kg	4		6010B	Total/NA
Arsenic	9.1		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	26	B	1.7	0.24	mg/Kg	4		6010B	Total/NA
Beryllium	0.94		0.34	0.11	mg/Kg	4		6010B	Total/NA
Cadmium	0.94		0.43	0.043	mg/Kg	4		6010B	Total/NA
Chromium	36		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	19		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	59		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	230	B	1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	37		1.7	0.18	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	3.4	0.52	mg/Kg	4		6010B	Total/NA
Vanadium	37		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	1500		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH15S-0.5-1 Lab Sample ID: 720-90960-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.5	0.25	mg/Kg	4		6010B	Total/NA
Arsenic	8.6		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	170	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.78		0.31	0.099	mg/Kg	4		6010B	Total/NA
Cadmium	0.44		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	37		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.61	0.061	mg/Kg	4		6010B	Total/NA
Copper	38		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	62	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Nickel	35		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Vanadium	59		1.5	0.21	mg/Kg	4		6010B	Total/NA
Zinc	73		4.6	1.9	mg/Kg	4		6010B	Total/NA
Mercury	0.28	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AH16S-0.5-1 Lab Sample ID: 720-90960-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6		1.8	0.30	mg/Kg	4		6010B	Total/NA
Arsenic	9.5		3.6	0.31	mg/Kg	4		6010B	Total/NA
Barium	190	B	1.8	0.26	mg/Kg	4		6010B	Total/NA
Beryllium	0.64		0.36	0.12	mg/Kg	4		6010B	Total/NA
Cadmium	0.53		0.45	0.045	mg/Kg	4		6010B	Total/NA
Chromium	47		1.8	0.19	mg/Kg	4		6010B	Total/NA
Cobalt	13		0.73	0.073	mg/Kg	4		6010B	Total/NA
Copper	78		5.5	2.6	mg/Kg	4		6010B	Total/NA
Lead	110	B	1.8	0.38	mg/Kg	4		6010B	Total/NA
Nickel	43		1.8	0.19	mg/Kg	4		6010B	Total/NA
Selenium	2.3	J	3.6	0.55	mg/Kg	4		6010B	Total/NA
Vanadium	56		1.8	0.25	mg/Kg	4		6010B	Total/NA
Zinc	130		5.5	2.3	mg/Kg	4		6010B	Total/NA
Mercury	0.19	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AH16S-3.5-4 Lab Sample ID: 720-90960-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.8		1.1	0.18	mg/Kg	4		6010B	Total/NA
Arsenic	5.8		2.2	0.19	mg/Kg	4		6010B	Total/NA
Barium	70	B	1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.66		0.22	0.072	mg/Kg	4		6010B	Total/NA
Cadmium	0.20	J	0.28	0.027	mg/Kg	4		6010B	Total/NA
Chromium	37		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	7.5		0.44	0.044	mg/Kg	4		6010B	Total/NA
Copper	26		3.3	1.6	mg/Kg	4		6010B	Total/NA
Lead	32	B	1.1	0.23	mg/Kg	4		6010B	Total/NA
Nickel	21		1.1	0.11	mg/Kg	4		6010B	Total/NA
Selenium	1.4	J	2.2	0.33	mg/Kg	4		6010B	Total/NA
Vanadium	50		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	95		3.3	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.075	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-104 Lab Sample ID: 720-90960-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.9		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	7.7		2.4	0.21	mg/Kg	4		6010B	Total/NA
Barium	51	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.92		0.24	0.079	mg/Kg	4		6010B	Total/NA
Cadmium	0.35		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	39		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	38		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	4.7	B	1.2	0.26	mg/Kg	4		6010B	Total/NA
Nickel	29		1.2	0.12	mg/Kg	4		6010B	Total/NA
Selenium	2.0	J	2.4	0.37	mg/Kg	4		6010B	Total/NA
Silver	0.18	J	0.61	0.12	mg/Kg	4		6010B	Total/NA
Thallium	0.69	J	1.2	0.35	mg/Kg	4		6010B	Total/NA
Vanadium	55		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	55		3.7	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.025	B	0.016	0.0023	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-103 Lab Sample ID: 720-90960-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	4.1		1.5	0.26	mg/Kg	4		6010B	Total/NA
Arsenic	17		3.1	0.26	mg/Kg	4		6010B	Total/NA
Barium	99	B	1.5	0.22	mg/Kg	4		6010B	Total/NA
Beryllium	0.85		0.31	0.10	mg/Kg	4		6010B	Total/NA
Cadmium	0.86		0.38	0.038	mg/Kg	4		6010B	Total/NA
Chromium	180		1.5	0.16	mg/Kg	4		6010B	Total/NA
Cobalt	14		0.62	0.062	mg/Kg	4		6010B	Total/NA
Copper	94		4.6	2.2	mg/Kg	4		6010B	Total/NA
Lead	76	B	1.5	0.32	mg/Kg	4		6010B	Total/NA
Molybdenum	0.40	J	1.5	0.20	mg/Kg	4		6010B	Total/NA
Nickel	33		1.5	0.16	mg/Kg	4		6010B	Total/NA
Selenium	2.4	J	3.1	0.46	mg/Kg	4		6010B	Total/NA
Thallium	0.75	J	1.5	0.45	mg/Kg	4		6010B	Total/NA
Vanadium	63		1.5	0.21	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-103 (Continued) Lab Sample ID: 720-90960-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	210		4.6	2.0	mg/Kg	4		6010B	Total/NA
Mercury	0.47	B	0.017	0.0025	mg/Kg	1		7471A	Total/NA

Client Sample ID: DUP-120 Lab Sample ID: 720-90960-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.3		1.2	0.20	mg/Kg	4		6010B	Total/NA
Arsenic	9.8		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	130	B	1.2	0.17	mg/Kg	4		6010B	Total/NA
Beryllium	0.50		0.25	0.080	mg/Kg	4		6010B	Total/NA
Cadmium	0.53		0.31	0.030	mg/Kg	4		6010B	Total/NA
Chromium	52		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.49	0.049	mg/Kg	4		6010B	Total/NA
Copper	45		3.7	1.7	mg/Kg	4		6010B	Total/NA
Lead	66	B	1.2	0.26	mg/Kg	4		6010B	Total/NA
Molybdenum	0.16	J	1.2	0.16	mg/Kg	4		6010B	Total/NA
Nickel	32		1.2	0.13	mg/Kg	4		6010B	Total/NA
Selenium	1.6	J	2.5	0.37	mg/Kg	4		6010B	Total/NA
Thallium	0.62	J	1.2	0.36	mg/Kg	4		6010B	Total/NA
Vanadium	53		1.2	0.17	mg/Kg	4		6010B	Total/NA
Zinc	110		3.7	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.16	B	0.014	0.0021	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG16S-0.5-1 Lab Sample ID: 720-90960-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.1		1.3	0.21	mg/Kg	4		6010B	Total/NA
Arsenic	6.5		2.6	0.22	mg/Kg	4		6010B	Total/NA
Barium	110	B	1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.89		0.26	0.083	mg/Kg	4		6010B	Total/NA
Cadmium	0.35		0.32	0.032	mg/Kg	4		6010B	Total/NA
Chromium	37		1.3	0.14	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.51	0.051	mg/Kg	4		6010B	Total/NA
Copper	32		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	18	B	1.3	0.27	mg/Kg	4		6010B	Total/NA
Molybdenum	0.20	J	1.3	0.16	mg/Kg	4		6010B	Total/NA
Nickel	35		1.3	0.13	mg/Kg	4		6010B	Total/NA
Selenium	2.2	J	2.6	0.38	mg/Kg	4		6010B	Total/NA
Silver	0.17	J	0.64	0.13	mg/Kg	4		6010B	Total/NA
Thallium	1.2	J	1.3	0.37	mg/Kg	4		6010B	Total/NA
Vanadium	54		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	58		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.065	B	0.016	0.0024	mg/Kg	1		7471A	Total/NA

Client Sample ID: DG-AG16S-3.5-4 Lab Sample ID: 720-90960-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.1	J	1.4	0.24	mg/Kg	4		6010B	Total/NA
Arsenic	6.6		2.9	0.24	mg/Kg	4		6010B	Total/NA
Barium	56	B	1.4	0.20	mg/Kg	4		6010B	Total/NA
Beryllium	0.21	J	0.29	0.094	mg/Kg	4		6010B	Total/NA
Cadmium	0.22	J	0.36	0.036	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AG16S-3.5-4 (Continued) Lab Sample ID: 720-90960-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	38		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.58	0.058	mg/Kg	4		6010B	Total/NA
Copper	16		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	20	B	1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	32		1.4	0.15	mg/Kg	4		6010B	Total/NA
Selenium	0.82	J	2.9	0.43	mg/Kg	4		6010B	Total/NA
Vanadium	35		1.4	0.20	mg/Kg	4		6010B	Total/NA
Zinc	33		4.3	1.8	mg/Kg	4		6010B	Total/NA
Mercury	0.18	B	0.015	0.0022	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-AV12S-0.5-1 — Lab Sample ID: 720-90960-1

Date Collected: 01/22/19 08:45 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2		3.6	0.60	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Arsenic	21		7.2	0.62	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Barium	310		1.4	0.21	mg/Kg		01/25/19 09:46	01/31/19 19:15	4
Beryllium	0.81		0.29	0.094	mg/Kg		01/25/19 09:46	01/31/19 19:15	4
Cadmium	1.1		0.91	0.090	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Chromium	730		3.6	0.38	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Cobalt	19		1.4	0.14	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Copper	180		11	5.2	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Lead	230		3.6	0.76	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Molybdenum	3.5		1.4	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:15	4
Nickel	55	B	3.6	0.37	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Selenium	1.7	J B	7.2	1.1	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Silver	ND		1.8	0.37	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Thallium	ND	^	3.6	1.1	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Vanadium	55		3.6	0.49	mg/Kg		01/25/19 09:46	02/01/19 12:14	10
Zinc	750		11	4.6	mg/Kg		01/25/19 09:46	02/01/19 12:14	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.60		0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.2		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AV12S-3.5-4 — Lab Sample ID: 720-90960-2

Date Collected: 01/22/19 08:45 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.81	J	1.4	0.23	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Arsenic	9.9		2.8	0.24	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Barium	100		1.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Beryllium	0.40		0.28	0.091	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Cadmium	0.095	J	0.35	0.035	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Chromium	70		1.4	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Cobalt	8.7		0.56	0.056	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Copper	48		4.2	2.0	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Lead	6.3		1.4	0.29	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Nickel	48	B	1.4	0.14	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Selenium	0.54	J B	2.8	0.42	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Silver	0.17	J B	0.70	0.14	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Thallium	ND		1.4	0.41	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Vanadium	74		1.4	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:20	4
Zinc	48		4.2	1.8	mg/Kg		01/25/19 09:46	01/31/19 19:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082		0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:36	1

Client Sample ID: DG-AV12S-3.5-4 — Lab Sample ID: 720-90960-2

Date Collected: 01/22/19 08:45 **Matrix: Solid**
Date Received: 01/22/19 18:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.7		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AV12S-19.5-20 — Lab Sample ID: 720-90960-3

Date Collected: 01/22/19 09:00 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Arsenic	9.3		2.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Barium	150		1.2	0.17	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Beryllium	0.46		0.24	0.078	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Cadmium	0.21	J	0.30	0.030	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Chromium	51		1.2	0.13	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Cobalt	22		0.48	0.048	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Copper	35		3.6	1.7	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Lead	6.7		1.2	0.25	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Molybdenum	0.19	J	1.2	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Nickel	48	B	1.2	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Selenium	1.2	J B	2.4	0.36	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Silver	0.22	J B	0.60	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Thallium	ND		1.2	0.35	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Vanadium	67		1.2	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:25	4
Zinc	87		3.6	1.5	mg/Kg		01/25/19 09:46	01/31/19 19:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.2		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AP14S-0.5-1 — Lab Sample ID: 720-90960-4

Date Collected: 01/22/19 09:45 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Arsenic	11		2.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Barium	96		1.2	0.17	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Beryllium	0.49		0.24	0.076	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Cadmium	0.16	J	0.29	0.029	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Chromium	50		1.2	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Cobalt	9.8		0.47	0.047	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Copper	27		3.5	1.7	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Lead	42		1.2	0.25	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Molybdenum	0.20	J	1.2	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Nickel	33	B	1.2	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Selenium	0.83	J B	2.4	0.35	mg/Kg		01/25/19 09:46	01/31/19 19:29	4

Client Sample ID: DG-AP14S-0.5-1 — Lab Sample ID: 720-90960-4

Date Collected: 01/22/19 09:45 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.23	J B	0.59	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Thallium	ND		1.2	0.34	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Vanadium	51		1.2	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:29	4
Zinc	62		3.5	1.5	mg/Kg		01/25/19 09:46	01/31/19 19:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.015	0.0021	mg/Kg		01/30/19 10:38	01/30/19 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AP14S-3.5-4 — Lab Sample ID: 720-90960-5

Date Collected: 01/22/19 09:45 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.2		1.8	0.30	mg/Kg		01/25/19 09:46	02/01/19 12:18	4
Arsenic	16		3.6	0.31	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Barium	73		1.8	0.26	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Beryllium	0.32	J	0.36	0.12	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Cadmium	0.13	J	0.45	0.045	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Chromium	42		1.8	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Cobalt	5.5		0.72	0.072	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Copper	69		5.4	2.6	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Lead	12		1.8	0.38	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Molybdenum	0.27	J	1.8	0.23	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Nickel	24	B	1.8	0.18	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Selenium	0.63	J B	3.6	0.54	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Silver	ND		0.90	0.18	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Thallium	ND		1.8	0.52	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Vanadium	59		1.8	0.25	mg/Kg		01/25/19 09:46	01/31/19 19:34	4
Zinc	34		5.4	2.3	mg/Kg		01/25/19 09:46	01/31/19 19:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.0		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AM14S-1-1.5 — Lab Sample ID: 720-90960-6

Date Collected: 01/22/19 10:05 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J	1.5	0.25	mg/Kg		01/25/19 09:46	01/31/19 19:48	4

Client Sample ID: DG-AM14S-1-1.5

Lab Sample ID: 720-90960-6
Date Collected: 01/22/19 10:05
Matrix: Solid
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		3.0	0.26	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Barium	47		1.5	0.21	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Beryllium	ND		0.30	0.098	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Cadmium	0.12	J	0.38	0.037	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Chromium	77		1.5	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Cobalt	9.3		0.60	0.060	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Copper	32		4.5	2.1	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Lead	12		1.5	0.32	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Molybdenum	ND		1.5	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Nickel	41	B	1.5	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Selenium	ND		3.0	0.45	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Silver	ND		0.75	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Thallium	ND		1.5	0.44	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Vanadium	60		1.5	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:48	4
Zinc	34		4.5	1.9	mg/Kg		01/25/19 09:46	01/31/19 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AL14S-0.5-1

Lab Sample ID: 720-90960-7
Date Collected: 01/22/19 10:15
Matrix: Solid
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.6	0.27	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Arsenic	13		3.2	0.27	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Barium	61		1.6	0.23	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Beryllium	0.86		0.32	0.10	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Cadmium	0.19	J	0.40	0.040	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Chromium	53		1.6	0.17	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Cobalt	17		0.64	0.064	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Copper	30		4.8	2.3	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Lead	5.1		1.6	0.34	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Molybdenum	4.3		1.6	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Nickel	38	B	1.6	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Selenium	1.3	J B	3.2	0.48	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Silver	0.48	J B	0.80	0.16	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Thallium	ND		1.6	0.46	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Vanadium	57		1.6	0.22	mg/Kg		01/25/19 09:46	01/31/19 19:53	4
Zinc	63		4.8	2.0	mg/Kg		01/25/19 09:46	01/31/19 19:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.015	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:48	1

Client Sample ID: DG-AL14S-0.5-1 — Lab Sample ID: 720-90960-7

Date Collected: 01/22/19 10:15 **Matrix: Solid**
Date Received: 01/22/19 18:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AL14S-3.5-4 — Lab Sample ID: 720-90960-8

Date Collected: 01/22/19 10:15 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J	1.4	0.24	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Arsenic	3.7		2.9	0.24	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Barium	80		1.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Beryllium	0.10	J	0.29	0.093	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Cadmium	0.14	J	0.36	0.035	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Chromium	67		1.4	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Cobalt	8.8		0.57	0.057	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Copper	21		4.3	2.0	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Lead	11		1.4	0.30	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Nickel	36	B	1.4	0.15	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Selenium	0.46	J B	2.9	0.43	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Silver	ND		0.71	0.14	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Thallium	ND		1.4	0.41	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Vanadium	62		1.4	0.19	mg/Kg		01/25/19 09:46	01/31/19 19:58	4
Zinc	35		4.3	1.8	mg/Kg		01/25/19 09:46	01/31/19 19:58	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AK14S-0.5-1 — Lab Sample ID: 720-90960-9

Date Collected: 01/22/19 10:50 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7		1.4	0.23	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Arsenic	19		2.8	0.23	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Barium	130		1.4	0.20	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Beryllium	ND		0.28	0.090	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Cadmium	1.0		0.34	0.034	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Chromium	390		1.4	0.15	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Cobalt	8.8		0.55	0.055	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Copper	130		4.1	2.0	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Lead	230		1.4	0.29	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Nickel	27	B	1.4	0.14	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Selenium	ND		2.8	0.41	mg/Kg		01/25/19 09:46	01/31/19 20:03	4

Client Sample ID: DG-AK14S-0.5-1 — Lab Sample ID: 720-90960-9

Date Collected: 01/22/19 10:50 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.37	J B	0.69	0.14	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Thallium	ND		1.4	0.40	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Vanadium	59		1.4	0.19	mg/Kg		01/25/19 09:46	01/31/19 20:03	4
Zinc	330		4.1	1.8	mg/Kg		01/25/19 09:46	01/31/19 20:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.016	0.0024	mg/Kg		01/30/19 10:38	01/30/19 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AK14S-3.5-4 — Lab Sample ID: 720-90960-10

Date Collected: 01/22/19 10:50 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.91	J	1.9	0.31	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Arsenic	1.7	J	3.7	0.32	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Barium	110		1.9	0.27	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Beryllium	ND		0.37	0.12	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Cadmium	0.24	J	0.47	0.046	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Chromium	42		1.9	0.20	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Cobalt	22		0.75	0.075	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Copper	42		5.6	2.7	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Lead	11		1.9	0.39	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Molybdenum	ND		1.9	0.24	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Nickel	35	B	1.9	0.19	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Selenium	1.2	J B	3.7	0.56	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Silver	0.24	J B	0.93	0.19	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Thallium	ND		1.9	0.54	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Vanadium	120		1.9	0.25	mg/Kg		01/25/19 09:46	01/31/19 20:07	4
Zinc	65		5.6	2.4	mg/Kg		01/25/19 09:46	01/31/19 20:07	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.051		0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.2		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AK16S-0.5-1 — Lab Sample ID: 720-90960-11

Date Collected: 01/22/19 11:35 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8	0.29	mg/Kg		01/25/19 09:46	01/31/19 20:12	4

Client Sample ID: DG-AK16S-0.5-1 — Lab Sample ID: 720-90960-11

Date Collected: 01/22/19 11:35 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		3.5	0.30	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Barium	63		1.8	0.25	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Beryllium	ND		0.35	0.12	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Cadmium	0.25	J	0.44	0.044	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Chromium	63		1.8	0.19	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Cobalt	7.0		0.71	0.071	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Copper	21		5.3	2.5	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Lead	50		1.8	0.37	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Nickel	33	B	1.8	0.18	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Selenium	ND		3.5	0.53	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Silver	0.20	J B	0.88	0.18	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Thallium	ND		1.8	0.51	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Vanadium	46		1.8	0.24	mg/Kg		01/25/19 09:46	01/31/19 20:12	4
Zinc	91		5.3	2.2	mg/Kg		01/25/19 09:46	01/31/19 20:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.015	0.0023	mg/Kg		01/30/19 10:38	01/30/19 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AK16S-3.5-4 — Lab Sample ID: 720-90960-12

Date Collected: 01/22/19 11:35 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	F1	1.2	0.20	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Arsenic	11		2.5	0.21	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Barium	130	F2 B	1.2	0.18	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Beryllium	0.35		0.25	0.080	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Cadmium	0.46		0.31	0.031	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Chromium	48		1.2	0.13	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Cobalt	13		0.49	0.049	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Copper	25		3.7	1.8	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Lead	49	F2 F1 B ^	1.2	0.26	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Molybdenum	0.23	J	1.2	0.16	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Nickel	30		1.2	0.13	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Selenium	0.84	J	2.5	0.37	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Silver	ND		0.62	0.12	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Thallium	0.46	J	1.2	0.36	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Vanadium	49		1.2	0.17	mg/Kg		01/26/19 11:54	01/31/19 14:51	4
Zinc	76	F1	3.7	1.6	mg/Kg		01/26/19 11:54	01/31/19 14:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.016	0.0024	mg/Kg		01/30/19 10:38	01/30/19 15:35	1

Client Sample ID: DG-AK16S-3.5-4 — Lab Sample ID: 720-90960-12

Date Collected: 01/22/19 11:35 — **Matrix: Solid**
Date Received: 01/22/19 18:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AL16S-0.5-1 — Lab Sample ID: 720-90960-13

Date Collected: 01/22/19 11:50 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.4		1.6	0.27	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Arsenic	5.9		3.2	0.27	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Barium	150	B	1.6	0.23	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Beryllium	0.30	J	0.32	0.10	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Cadmium	1.5		0.40	0.040	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Chromium	160		1.6	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Cobalt	9.8		0.64	0.064	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Copper	49		4.8	2.3	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Lead	390	B	1.6	0.34	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Molybdenum	4.9		1.6	0.20	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Nickel	44		1.6	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Selenium	1.2	J	3.2	0.48	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Silver	3.4		0.80	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Thallium	ND		1.6	0.46	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Vanadium	44		1.6	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:12	4
Zinc	320		4.8	2.0	mg/Kg		01/26/19 11:54	02/06/19 23:12	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14	B	0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.6		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AL15S-1-1.5 — Lab Sample ID: 720-90960-14

Date Collected: 01/22/19 11:55 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.6		1.1	0.19	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Arsenic	5.0		2.2	0.19	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Barium	170	B	1.1	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Beryllium	0.32		0.22	0.073	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Cadmium	0.63		0.28	0.028	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Chromium	230		1.1	0.12	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Cobalt	9.2		0.45	0.045	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Copper	57		3.4	1.6	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Lead	87	B	1.1	0.23	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Molybdenum	0.18	J	1.1	0.14	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Nickel	36		1.1	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Selenium	0.64	J	2.2	0.34	mg/Kg		01/26/19 11:54	02/06/19 23:17	4

Client Sample ID: DG-AL15S-1-1.5 — Lab Sample ID: 720-90960-14

Date Collected: 01/22/19 11:55 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.56	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Thallium	ND		1.1	0.32	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Vanadium	**45**		1.1	0.15	mg/Kg		01/26/19 11:54	02/06/19 23:17	4
Zinc	**250**		3.4	1.4	mg/Kg		01/26/19 11:54	02/06/19 23:17	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**	**B**	0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AJ14S-0.5-1 — Lab Sample ID: 720-90960-15

Date Collected: 01/22/19 13:15 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.5**		1.4	0.24	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Arsenic	**5.4**		2.9	0.24	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Barium	**92**	**B**	1.4	0.20	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Beryllium	**0.41**		0.29	0.094	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Cadmium	**0.40**		0.36	0.036	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Chromium	**90**		1.4	0.15	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Cobalt	**15**		0.58	0.058	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Copper	**27**		4.3	2.0	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Lead	**27**	**B**	1.4	0.30	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Nickel	**100**		1.4	0.15	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Selenium	**0.82**	**J**	2.9	0.43	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Silver	ND		0.72	0.15	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Thallium	**0.63**	**J**	1.4	0.42	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Vanadium	**69**		1.4	0.20	mg/Kg		01/26/19 11:54	02/06/19 23:22	4
Zinc	**56**		4.3	1.8	mg/Kg		01/26/19 11:54	02/06/19 23:22	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.052**	**B**	0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AJ14S-3.5-4 — Lab Sample ID: 720-90960-16

Date Collected: 01/22/19 13:15 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.7**		1.0	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:27	4

Client Sample ID: DG-AJ14S-3.5-4 — Lab Sample ID: 720-90960-16

Date Collected: 01/22/19 13:15 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		2.0	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Barium	80	B	1.0	0.14	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Beryllium	0.17	J	0.20	0.066	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Cadmium	0.18	J	0.25	0.025	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Chromium	56		1.0	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Cobalt	6.1		0.40	0.040	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Copper	7.6		3.0	1.4	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Lead	5.6	B	1.0	0.21	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Molybdenum	ND		1.0	0.13	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Nickel	20		1.0	0.10	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Selenium	0.98	J	2.0	0.30	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Silver	ND		0.51	0.10	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Thallium	ND		1.0	0.29	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Vanadium	54		1.0	0.14	mg/Kg		01/26/19 11:54	02/06/19 23:27	4
Zinc	25		3.0	1.3	mg/Kg		01/26/19 11:54	02/06/19 23:27	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J B	0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AJ15S-0.5-1 — Lab Sample ID: 720-90960-17

Date Collected: 01/22/19 13:30 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.3		1.7	0.28	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Arsenic	3.1	J	3.4	0.29	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Barium	160	B	1.7	0.24	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Beryllium	0.40		0.34	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Cadmium	0.46		0.43	0.042	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Chromium	41		1.7	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Cobalt	22		0.68	0.068	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Copper	48		5.1	2.4	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Lead	6.3	B	1.7	0.36	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Nickel	32		1.7	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Selenium	2.1	J	3.4	0.51	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Silver	ND		0.85	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Thallium	ND		1.7	0.50	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Vanadium	120		1.7	0.23	mg/Kg		01/26/19 11:54	02/06/19 23:31	4
Zinc	71		5.1	2.2	mg/Kg		01/26/19 11:54	02/06/19 23:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057	B	0.015	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:52	1

Client Sample ID: DG-AJ15S-0.5-1 — Lab Sample ID: 720-90960-17

Date Collected: 01/22/19 13:30 — **Matrix: Solid**
Date Received: 01/22/19 18:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AJ15S-3.5-4 — Lab Sample ID: 720-90960-18

Date Collected: 01/22/19 13:30 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.6	0.26	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Arsenic	2.2	J	3.1	0.26	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Barium	66	B	1.6	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Beryllium	0.21	J	0.31	0.10	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Cadmium	0.41		0.39	0.038	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Chromium	88		1.6	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Cobalt	6.3		0.62	0.062	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Copper	13		4.7	2.2	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Lead	2.6	B	1.6	0.33	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Molybdenum	ND		1.6	0.20	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Nickel	31		1.6	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Selenium	1.1	J	3.1	0.47	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Silver	ND		0.78	0.16	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Thallium	ND		1.6	0.45	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Vanadium	64		1.6	0.21	mg/Kg		01/26/19 11:54	02/06/19 23:36	4
Zinc	50		4.7	2.0	mg/Kg		01/26/19 11:54	02/06/19 23:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.068	B	0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AI16S-1-1.5 — Lab Sample ID: 720-90960-19

Date Collected: 01/22/19 13:50 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.4		1.3	0.21	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Arsenic	0.89	J	2.6	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Barium	370	B	1.3	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Beryllium	0.49		0.26	0.084	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Cadmium	0.43		0.32	0.032	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Chromium	37		1.3	0.14	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Cobalt	16		0.52	0.052	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Copper	75		3.9	1.8	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Lead	5.4	B	1.3	0.27	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Molybdenum	ND		1.3	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Nickel	31		1.3	0.13	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Selenium	1.8	J	2.6	0.39	mg/Kg		01/26/19 11:54	02/06/19 23:51	4

Client Sample ID: DG-AI16S-1-1.5 — Lab Sample ID: 720-90960-19

Date Collected: 01/22/19 13:50 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.65	0.13	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Thallium	ND		1.3	0.37	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Vanadium	**82**		1.3	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:51	4
Zinc	**57**		3.9	1.6	mg/Kg		01/26/19 11:54	02/06/19 23:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**	**B**	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.3**		0.1	0.05	%			01/24/19 13:49	1

Client Sample ID: DG-AI17S-0.5-1 — Lab Sample ID: 720-90960-20

Date Collected: 01/22/19 14:10 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.1**		1.7	0.28	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Arsenic	**15**		3.4	0.29	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Barium	**92**	**B**	1.7	0.24	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Beryllium	**1.0**		0.34	0.11	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Cadmium	**0.72**		0.42	0.042	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Chromium	**48**		1.7	0.18	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Cobalt	**18**		0.68	0.068	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Copper	**49**		5.1	2.4	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Lead	**25**	**B**	1.7	0.36	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Molybdenum	**0.26**	**J**	1.7	0.22	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Nickel	**47**		1.7	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Selenium	**2.3**	**J**	3.4	0.51	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Silver	ND		0.85	0.17	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Thallium	ND		1.7	0.49	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Vanadium	**59**		1.7	0.23	mg/Kg		01/26/19 11:54	02/06/19 23:56	4
Zinc	**180**		5.1	2.2	mg/Kg		01/26/19 11:54	02/06/19 23:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**	**B**	0.015	0.0021	mg/Kg		01/30/19 10:38	01/30/19 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AI17S-3.5-4 — Lab Sample ID: 720-90960-21

Date Collected: 01/22/19 14:10 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.4**		1.7	0.29	mg/Kg		01/26/19 11:54	02/07/19 00:00	4

Client Sample ID: DG-AI17S-3.5-4 — Lab Sample ID: 720-90960-21

Date Collected: 01/22/19 14:10 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		3.4	0.29	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Barium	26	B	1.7	0.24	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Beryllium	0.94		0.34	0.11	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Cadmium	0.94		0.43	0.043	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Chromium	36		1.7	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Cobalt	19		0.69	0.069	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Copper	59		5.2	2.5	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Lead	230	B	1.7	0.36	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Molybdenum	ND		1.7	0.22	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Nickel	37		1.7	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Selenium	2.0	J	3.4	0.52	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Silver	ND		0.86	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Thallium	ND		1.7	0.50	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Vanadium	37		1.7	0.23	mg/Kg		01/26/19 11:54	02/07/19 00:00	4
Zinc	1500		5.2	2.2	mg/Kg		01/26/19 11:54	02/07/19 00:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AH15S-0.5-1 — Lab Sample ID: 720-90960-22

Date Collected: 01/22/19 14:30 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.5	0.25	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Arsenic	8.6		3.1	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Barium	170	B	1.5	0.22	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Beryllium	0.78		0.31	0.099	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Cadmium	0.44		0.38	0.038	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Chromium	37		1.5	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Cobalt	13		0.61	0.061	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Copper	38		4.6	2.2	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Lead	62	B	1.5	0.32	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Molybdenum	ND		1.5	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Nickel	35		1.5	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Selenium	1.6	J	3.1	0.46	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Silver	ND		0.76	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Thallium	ND		1.5	0.44	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Vanadium	59		1.5	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:05	4
Zinc	73		4.6	1.9	mg/Kg		01/26/19 11:54	02/07/19 00:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28	B	0.016	0.0024	mg/Kg		01/30/19 10:38	01/30/19 16:03	1

Client Sample ID: DG-AH15S-0.5-1 — Lab Sample ID: 720-90960-22

Date Collected: 01/22/19 14:30 — **Matrix: Solid**
Date Received: 01/22/19 18:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AH16S-0.5-1 — Lab Sample ID: 720-90960-23

Date Collected: 01/22/19 14:40 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.6		1.8	0.30	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Arsenic	9.5		3.6	0.31	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Barium	190	B	1.8	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Beryllium	0.64		0.36	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Cadmium	0.53		0.45	0.045	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Chromium	47		1.8	0.19	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Cobalt	13		0.73	0.073	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Copper	78		5.5	2.6	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Lead	110	B	1.8	0.38	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Molybdenum	ND		1.8	0.23	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Nickel	43		1.8	0.19	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Selenium	2.3	J	3.6	0.55	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Silver	ND		0.91	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Thallium	ND		1.8	0.53	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Vanadium	56		1.8	0.25	mg/Kg		01/26/19 11:54	02/07/19 00:10	4
Zinc	130		5.5	2.3	mg/Kg		01/26/19 11:54	02/07/19 00:10	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19	B	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.4		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AH16S-3.5-4 — Lab Sample ID: 720-90960-24

Date Collected: 01/22/19 14:40 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.8		1.1	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Arsenic	5.8		2.2	0.19	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Barium	70	B	1.1	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Beryllium	0.66		0.22	0.072	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Cadmium	0.20	J	0.28	0.027	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Chromium	37		1.1	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Cobalt	7.5		0.44	0.044	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Copper	26		3.3	1.6	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Lead	32	B	1.1	0.23	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Molybdenum	ND		1.1	0.14	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Nickel	21		1.1	0.11	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Selenium	1.4	J	2.2	0.33	mg/Kg		01/26/19 11:54	02/07/19 00:15	4

Client Sample ID: DG-AH16S-3.5-4

Lab Sample ID: 720-90960-24
Date Collected: 01/22/19 14:40
Matrix: Solid
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.55	0.11	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Thallium	ND		1.1	0.32	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Vanadium	**50**		1.1	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:15	4
Zinc	**95**		3.3	1.4	mg/Kg		01/26/19 11:54	02/07/19 00:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**	**B**	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DUP-104

Lab Sample ID: 720-90960-25
Date Collected: 01/22/19 00:00
Matrix: Solid
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.9**		1.2	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Arsenic	**7.7**		2.4	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Barium	**51**	**B**	1.2	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Beryllium	**0.92**		0.24	0.079	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Cadmium	**0.35**		0.30	0.030	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Chromium	**39**		1.2	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Cobalt	**14**		0.49	0.049	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Copper	**38**		3.7	1.7	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Lead	**4.7**	**B**	1.2	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Molybdenum	ND		1.2	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Nickel	**29**		1.2	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Selenium	**2.0**	**J**	2.4	0.37	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Silver	**0.18**	**J**	0.61	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Thallium	**0.69**	**J**	1.2	0.35	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Vanadium	**55**		1.2	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:20	4
Zinc	**55**		3.7	1.5	mg/Kg		01/26/19 11:54	02/07/19 00:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**	**B**	0.016	0.0023	mg/Kg		01/30/19 10:38	01/30/19 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DUP-103

Lab Sample ID: 720-90960-26
Date Collected: 01/22/19 00:00
Matrix: Solid
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**4.1**		1.5	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:25	4

Client Sample ID: DUP-103 — Lab Sample ID: 720-90960-26

Date Collected: 01/22/19 00:00 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		3.1	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Barium	99	B	1.5	0.22	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Beryllium	0.85		0.31	0.10	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Cadmium	0.86		0.38	0.038	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Chromium	180		1.5	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Cobalt	14		0.62	0.062	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Copper	94		4.6	2.2	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Lead	76	B	1.5	0.32	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Molybdenum	0.40	J	1.5	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Nickel	33		1.5	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Selenium	2.4	J	3.1	0.46	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Silver	ND		0.77	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Thallium	0.75	J	1.5	0.45	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Vanadium	63		1.5	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:25	4
Zinc	210		4.6	2.0	mg/Kg		01/26/19 11:54	02/07/19 00:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.47	B	0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DUP-120 — Lab Sample ID: 720-90960-27

Date Collected: 01/22/19 00:00 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.3		1.2	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Arsenic	9.8		2.5	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Barium	130	B	1.2	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Beryllium	0.50		0.25	0.080	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Cadmium	0.53		0.31	0.030	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Chromium	52		1.2	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Cobalt	16		0.49	0.049	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Copper	45		3.7	1.7	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Lead	66	B	1.2	0.26	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Molybdenum	0.16	J	1.2	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Nickel	32		1.2	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Selenium	1.6	J	2.5	0.37	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Silver	ND		0.61	0.12	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Thallium	0.62	J	1.2	0.36	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Vanadium	53		1.2	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:30	4
Zinc	110		3.7	1.6	mg/Kg		01/26/19 11:54	02/07/19 00:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	B	0.014	0.0021	mg/Kg		01/30/19 10:38	01/30/19 16:20	1

Client Sample ID: DUP-120 — Lab Sample ID: 720-90960-27

Date Collected: 01/22/19 00:00 — **Matrix: Solid**
Date Received: 01/22/19 18:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.5		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AG16S-0.5-1 — Lab Sample ID: 720-90960-28

Date Collected: 01/22/19 15:10 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.1		1.3	0.21	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Arsenic	6.5		2.6	0.22	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Barium	110	B	1.3	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Beryllium	0.89		0.26	0.083	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Cadmium	0.35		0.32	0.032	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Chromium	37		1.3	0.14	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Cobalt	15		0.51	0.051	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Copper	32		3.8	1.8	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Lead	18	B	1.3	0.27	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Molybdenum	0.20	J	1.3	0.16	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Nickel	35		1.3	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Selenium	2.2	J	2.6	0.38	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Silver	0.17	J	0.64	0.13	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Thallium	1.2	J	1.3	0.37	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Vanadium	54		1.3	0.17	mg/Kg		01/26/19 11:54	02/07/19 00:34	4
Zinc	58		3.8	1.6	mg/Kg		01/26/19 11:54	02/07/19 00:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065	B	0.016	0.0024	mg/Kg		01/30/19 10:38	01/30/19 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.05	%			01/24/19 14:24	1

Client Sample ID: DG-AG16S-3.5-4 — Lab Sample ID: 720-90960-29

Date Collected: 01/22/19 15:10 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	1.4	0.24	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Arsenic	6.6		2.9	0.24	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Barium	56	B	1.4	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Beryllium	0.21	J	0.29	0.094	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Cadmium	0.22	J	0.36	0.036	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Chromium	38		1.4	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Cobalt	8.2		0.58	0.058	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Copper	16		4.3	2.0	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Lead	20	B	1.4	0.30	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Molybdenum	ND		1.4	0.18	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Nickel	32		1.4	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Selenium	0.82	J	2.9	0.43	mg/Kg		01/26/19 11:54	02/07/19 00:49	4

Client Sample ID: DG-AG16S-3.5-4 Lab Sample ID: 720-90960-29

Date Collected: 01/22/19 15:10 **Matrix: Solid**
Date Received: 01/22/19 18:40

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.72	0.15	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Thallium	ND		1.4	0.42	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Vanadium	**35**		1.4	0.20	mg/Kg		01/26/19 11:54	02/07/19 00:49	4
Zinc	**33**		4.3	1.8	mg/Kg		01/26/19 11:54	02/07/19 00:49	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	**B**	0.015	0.0022	mg/Kg		01/30/19 10:38	01/30/19 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.7**		0.1	0.05	%			01/24/19 14:24	1

Default Detection Limits

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method: 6010B - Metals (ICP)

Prep: 3050B

Analyte	RL	MDL	Units
Antimony	0.50	0.083	mg/Kg
Arsenic	1.0	0.085	mg/Kg
Barium	0.50	0.071	mg/Kg
Beryllium	0.10	0.033	mg/Kg
Cadmium	0.13	0.012	mg/Kg
Chromium	0.50	0.053	mg/Kg
Cobalt	0.20	0.020	mg/Kg
Copper	1.5	0.71	mg/Kg
Lead	0.50	0.11	mg/Kg
Molybdenum	0.50	0.064	mg/Kg
Nickel	0.50	0.051	mg/Kg
Selenium	1.0	0.15	mg/Kg
Silver	0.25	0.051	mg/Kg
Thallium	0.50	0.15	mg/Kg
Vanadium	0.50	0.068	mg/Kg
Zinc	1.5	0.64	mg/Kg

Method: 7471A - Mercury (CVAA)

Prep: 7471A

Analyte	RL	MDL	Units
Mercury	0.017	0.0025	mg/Kg

General Chemistry

Analyte	RL	MDL	Units
Percent Moisture	0.1	0.05	%

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-259153/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259616 **Prep Batch: 259153**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Arsenic	ND		1.0	0.085	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Barium	ND		0.50	0.071	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Beryllium	ND		0.10	0.033	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Cadmium	ND		0.13	0.012	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Chromium	ND		0.50	0.053	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Cobalt	ND		0.20	0.020	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Copper	ND		1.5	0.71	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Lead	ND		0.50	0.11	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Nickel	0.0946	J	0.50	0.051	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Selenium	0.218	J	1.0	0.15	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Silver	0.0532	J	0.25	0.051	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Thallium	ND		0.50	0.15	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Vanadium	ND		0.50	0.068	mg/Kg		01/25/19 09:46	01/31/19 17:54	1
Zinc	ND		1.5	0.64	mg/Kg		01/25/19 09:46	01/31/19 17:54	1

Lab Sample ID: LCS 720-259153/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259616 **Prep Batch: 259153**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.1		mg/Kg		100	80 - 120
Arsenic	50.0	49.6		mg/Kg		99	80 - 120
Barium	50.0	50.4		mg/Kg		101	80 - 120
Beryllium	50.0	52.4		mg/Kg		105	80 - 120
Cadmium	50.0	53.6		mg/Kg		107	80 - 120
Chromium	50.0	51.5		mg/Kg		103	80 - 120
Cobalt	50.0	54.9		mg/Kg		110	80 - 120
Copper	50.0	51.2		mg/Kg		102	80 - 120
Lead	50.0	53.7		mg/Kg		107	80 - 120
Molybdenum	50.0	51.1		mg/Kg		102	80 - 120
Nickel	50.0	53.4		mg/Kg		107	80 - 120
Selenium	50.0	51.0		mg/Kg		102	80 - 120
Silver	25.0	24.2		mg/Kg		97	80 - 120
Thallium	50.0	53.0		mg/Kg		106	80 - 120
Vanadium	50.0	50.4		mg/Kg		101	80 - 120
Zinc	50.0	52.7		mg/Kg		105	80 - 120

Lab Sample ID: 720-90956-A-9-F MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259616 **Prep Batch: 259153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.2	F1	45.0	18.2	F1	mg/Kg		31	75 - 125
Arsenic	49	F1	45.0	108	F1	mg/Kg		131	75 - 125
Barium	200		45.0	330	4	mg/Kg		280	75 - 125
Beryllium	0.40	F1	45.0	62.6	F1	mg/Kg		138	75 - 125
Cadmium	3.4	F1	45.0	60.0	F1	mg/Kg		126	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90956-A-9-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259616 — **Prep Batch: 259153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	110	F1	45.0	127	F1	mg/Kg		43	75 - 125
Cobalt	16	F1	45.0	74.8	F1	mg/Kg		132	75 - 125
Copper	410		45.0	428	4	mg/Kg		32	75 - 125
Lead	190		45.0	202	4	mg/Kg		28	75 - 125
Molybdenum	3.3		45.0	51.6		mg/Kg		107	75 - 125
Nickel	68	B	45.0	114		mg/Kg		102	75 - 125
Selenium	8.2	B F1 F2	45.0	55.1		mg/Kg		104	75 - 125
Silver	1.8	B	22.5	29.5		mg/Kg		123	75 - 125
Thallium	0.64	J	45.0	52.1		mg/Kg		114	75 - 125
Vanadium	51	F1	45.0	124	F1	mg/Kg		162	75 - 125
Zinc	470		45.0	523	4	mg/Kg		106	75 - 125

Lab Sample ID: 720-90956-A-9-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259616 — **Prep Batch: 259153**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.2	F1	45.0	15.5	F1	mg/Kg		25	75 - 125	16	20
Arsenic	49	F1	45.0	92.0		mg/Kg		95	75 - 125	16	20
Barium	200		45.0	340	4	mg/Kg		301	75 - 125	3	20
Beryllium	0.40	F1	45.0	58.5	F1	mg/Kg		129	75 - 125	7	20
Cadmium	3.4	F1	45.0	58.2		mg/Kg		122	75 - 125	3	20
Chromium	110	F1	45.0	129	F1	mg/Kg		47	75 - 125	1	20
Cobalt	16	F1	45.0	72.5	F1	mg/Kg		126	75 - 125	3	20
Copper	410		45.0	490	4	mg/Kg		170	75 - 125	14	20
Lead	190		45.0	237	4	mg/Kg		106	75 - 125	16	20
Molybdenum	3.3		45.0	49.8		mg/Kg		103	75 - 125	4	20
Nickel	68	B	45.0	121		mg/Kg		117	75 - 125	6	20
Selenium	8.2	B F1 F2	45.0	135	F1 F2	mg/Kg		282	75 - 125	84	20
Silver	1.8	B	22.5	29.1		mg/Kg		121	75 - 125	1	20
Thallium	0.64	J	45.0	49.7		mg/Kg		109	75 - 125	5	20
Vanadium	51	F1	45.0	121	F1	mg/Kg		155	75 - 125	3	20
Zinc	470		45.0	572	4	mg/Kg		215	75 - 125	9	20

Lab Sample ID: MB 720-259167/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259583 — **Prep Batch: 259167**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Arsenic	ND		1.0	0.085	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Barium	0.165	J	0.50	0.071	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Beryllium	ND		0.10	0.033	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Cadmium	ND		0.13	0.012	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Chromium	ND		0.50	0.053	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Cobalt	ND		0.20	0.020	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Copper	ND		1.5	0.71	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Lead	0.247	J	0.50	0.11	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Molybdenum	ND		0.50	0.064	mg/Kg		01/26/19 11:54	01/31/19 14:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-259167/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259583 **Prep Batch: 259167**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.50	0.051	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Selenium	ND		1.0	0.15	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Silver	ND		0.25	0.051	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Thallium	ND		0.50	0.15	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Vanadium	ND		0.50	0.068	mg/Kg		01/26/19 11:54	01/31/19 14:23	1
Zinc	ND		1.5	0.64	mg/Kg		01/26/19 11:54	01/31/19 14:23	1

Lab Sample ID: LCS 720-259167/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259583 **Prep Batch: 259167**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.4		mg/Kg		97	80 - 120
Arsenic	50.0	48.2		mg/Kg		96	80 - 120
Barium	50.0	45.6		mg/Kg		91	80 - 120
Beryllium	50.0	45.5		mg/Kg		91	80 - 120
Cadmium	50.0	50.6		mg/Kg		101	80 - 120
Chromium	50.0	49.6		mg/Kg		99	80 - 120
Cobalt	50.0	51.3		mg/Kg		103	80 - 120
Copper	50.0	49.1		mg/Kg		98	80 - 120
Lead	50.0	52.4		mg/Kg		105	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	52.3		mg/Kg		105	80 - 120
Selenium	50.0	49.4		mg/Kg		99	80 - 120
Silver	25.0	24.4		mg/Kg		98	80 - 120
Thallium	50.0	51.9		mg/Kg		104	80 - 120
Vanadium	50.0	49.4		mg/Kg		99	80 - 120
Zinc	50.0	51.2		mg/Kg		102	80 - 120

Lab Sample ID: 720-90960-12 MS **Client Sample ID: DG-AK16S-3.5-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 259583 **Prep Batch: 259167**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2	F1	31.1	9.22	F1	mg/Kg		26	75 - 125
Arsenic	11		31.1	36.2		mg/Kg		82	75 - 125
Barium	130	F2 B	31.1	130	4	mg/Kg		2	75 - 125
Beryllium	0.35		31.1	28.6		mg/Kg		91	75 - 125
Cadmium	0.46		31.1	30.0		mg/Kg		95	75 - 125
Chromium	48		31.1	77.5		mg/Kg		94	75 - 125
Cobalt	13		31.1	42.9		mg/Kg		96	75 - 125
Copper	25		31.1	53.9		mg/Kg		95	75 - 125
Lead	49	F2 F1 B ^	31.1	70.0	F1	mg/Kg		68	75 - 125
Molybdenum	0.23	J	31.1	25.0		mg/Kg		80	75 - 125
Nickel	30		31.1	59.7		mg/Kg		94	75 - 125
Selenium	0.84	J	31.1	27.6		mg/Kg		86	75 - 125
Silver	ND		15.5	15.5		mg/Kg		100	75 - 125
Thallium	0.46	J	31.1	29.9		mg/Kg		95	75 - 125
Vanadium	49		31.1	80.5		mg/Kg		100	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-90960-12 MS — **Client Sample ID: DG-AK16S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259583 — **Prep Batch: 259167**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	76	F1	31.1	96.6	F1	mg/Kg		65	75 - 125

Lab Sample ID: 720-90960-12 MSD — **Client Sample ID: DG-AK16S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259583 — **Prep Batch: 259167**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.2	F1	31.1	9.80	F1	mg/Kg		28	75 - 125	6	20
Arsenic	11		31.1	38.8		mg/Kg		90	75 - 125	7	20
Barium	130	F2 B	31.1	229	4 F2	mg/Kg		319	75 - 125	55	20
Beryllium	0.35		31.1	29.7		mg/Kg		94	75 - 125	4	20
Cadmium	0.46		31.1	30.6		mg/Kg		97	75 - 125	2	20
Chromium	48		31.1	82.0		mg/Kg		108	75 - 125	6	20
Cobalt	13		31.1	42.1		mg/Kg		94	75 - 125	2	20
Copper	25		31.1	56.8		mg/Kg		104	75 - 125	5	20
Lead	49	F2 F1 B ^	31.1	103	F1 F2	mg/Kg		175	75 - 125	38	20
Molybdenum	0.23	J	31.1	25.7		mg/Kg		82	75 - 125	3	20
Nickel	30		31.1	60.0		mg/Kg		95	75 - 125	0	20
Selenium	0.84	J	31.1	28.6		mg/Kg		89	75 - 125	3	20
Silver	ND		15.5	15.4		mg/Kg		99	75 - 125	1	20
Thallium	0.46	J	31.1	30.6		mg/Kg		97	75 - 125	2	20
Vanadium	49		31.1	79.9		mg/Kg		98	75 - 125	1	20
Zinc	76	F1	31.1	110		mg/Kg		110	75 - 125	13	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-259152/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259510 — **Prep Batch: 259152**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 13:58	1

Lab Sample ID: LCS 720-259152/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259510 — **Prep Batch: 259152**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.743		mg/Kg		89	80 - 120

Lab Sample ID: MB 720-259166/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259511 — **Prep Batch: 259166**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0123	J	0.017	0.0025	mg/Kg		01/30/19 10:38	01/30/19 15:26	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-259166/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259511 — **Prep Batch: 259166**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.762		mg/Kg		91	80 - 120		

Lab Sample ID: 720-90960-12 MS — **Client Sample ID: DG-AK16S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259511 — **Prep Batch: 259166**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.19	B	0.794	0.834		mg/Kg		81	75 - 125		

Lab Sample ID: 720-90960-12 MSD — **Client Sample ID: DG-AK16S-3.5-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259511 — **Prep Batch: 259166**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.19	B	0.806	0.848		mg/Kg		82	75 - 125	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: 720-90960-1 DU — **Client Sample ID: DG-AV12S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259151

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	14.2			13.7		%				4	20

Lab Sample ID: 720-90960-20 DU — **Client Sample ID: DG-AI17S-0.5-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259155

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.9			10.5		%				4	20

Metals

Prep Batch: 259152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	7471A	
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	7471A	
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	7471A	
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	7471A	
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	7471A	
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	7471A	
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	7471A	
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	7471A	
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	7471A	
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	7471A	
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	7471A	
MB 720-259152/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259152/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 259153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	3050B	
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	3050B	
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	3050B	
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	3050B	
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	3050B	
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	3050B	
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	3050B	
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	3050B	
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	3050B	
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	3050B	
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	3050B	
MB 720-259153/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259153/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90956-A-9-F MS	Matrix Spike	Total/NA	Solid	3050B	
720-90956-A-9-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 259166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	7471A	
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	7471A	
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	7471A	
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	7471A	
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	7471A	
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	7471A	
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	7471A	
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	7471A	
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	7471A	
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	7471A	
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	7471A	
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	7471A	
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	7471A	
720-90960-25	DUP-104	Total/NA	Solid	7471A	
720-90960-26	DUP-103	Total/NA	Solid	7471A	
720-90960-27	DUP-120	Total/NA	Solid	7471A	
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 259166 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	7471A	
MB 720-259166/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-259166/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-90960-12 MS	DG-AK16S-3.5-4	Total/NA	Solid	7471A	
720-90960-12 MSD	DG-AK16S-3.5-4	Total/NA	Solid	7471A	

Prep Batch: 259167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	3050B	
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	3050B	
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	3050B	
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	3050B	
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	3050B	
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	3050B	
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	3050B	
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	3050B	
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	3050B	
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	3050B	
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	3050B	
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	3050B	
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	3050B	
720-90960-25	DUP-104	Total/NA	Solid	3050B	
720-90960-26	DUP-103	Total/NA	Solid	3050B	
720-90960-27	DUP-120	Total/NA	Solid	3050B	
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	3050B	
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	3050B	
MB 720-259167/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-259167/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-90960-12 MS	DG-AK16S-3.5-4	Total/NA	Solid	3050B	
720-90960-12 MSD	DG-AK16S-3.5-4	Total/NA	Solid	3050B	

Analysis Batch: 259510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	7471A	259152
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	7471A	259152
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	7471A	259152
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	7471A	259152
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	7471A	259152
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	7471A	259152
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	7471A	259152
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	7471A	259152
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	7471A	259152
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	7471A	259152
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	7471A	259152
MB 720-259152/1-A	Method Blank	Total/NA	Solid	7471A	259152
LCS 720-259152/2-A	Lab Control Sample	Total/NA	Solid	7471A	259152

Analysis Batch: 259511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	7471A	259166

Metals (Continued)

Analysis Batch: 259511 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	7471A	259166
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	7471A	259166
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-25	DUP-104	Total/NA	Solid	7471A	259166
720-90960-26	DUP-103	Total/NA	Solid	7471A	259166
720-90960-27	DUP-120	Total/NA	Solid	7471A	259166
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	7471A	259166
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	7471A	259166
MB 720-259166/1-A	Method Blank	Total/NA	Solid	7471A	259166
LCS 720-259166/2-A	Lab Control Sample	Total/NA	Solid	7471A	259166
720-90960-12 MS	DG-AK16S-3.5-4	Total/NA	Solid	7471A	259166
720-90960-12 MSD	DG-AK16S-3.5-4	Total/NA	Solid	7471A	259166

Analysis Batch: 259583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	6010B	259167
MB 720-259167/1-A	Method Blank	Total/NA	Solid	6010B	259167
LCS 720-259167/2-A	Lab Control Sample	Total/NA	Solid	6010B	259167
720-90960-12 MS	DG-AK16S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-12 MSD	DG-AK16S-3.5-4	Total/NA	Solid	6010B	259167

Analysis Batch: 259616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	6010B	259153
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	6010B	259153
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	6010B	259153
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	6010B	259153
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	6010B	259153
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	6010B	259153
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	6010B	259153
MB 720-259153/1-A	Method Blank	Total/NA	Solid	6010B	259153
LCS 720-259153/2-A	Lab Control Sample	Total/NA	Solid	6010B	259153
720-90956-A-9-F MS	Matrix Spike	Total/NA	Solid	6010B	259153
720-90956-A-9-G MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	259153

Analysis Batch: 259661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	6010B	259153
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	6010B	259153

Metals

Analysis Batch: 259951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	6010B	259167
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	6010B	259167
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-25	DUP-104	Total/NA	Solid	6010B	259167
720-90960-26	DUP-103	Total/NA	Solid	6010B	259167
720-90960-27	DUP-120	Total/NA	Solid	6010B	259167
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	6010B	259167

Analysis Batch: 261958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	6010B	259167
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	6010B	259167
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	6010B	259167
720-90960-25	DUP-104	Total/NA	Solid	6010B	259167
720-90960-26	DUP-103	Total/NA	Solid	6010B	259167
720-90960-27	DUP-120	Total/NA	Solid	6010B	259167
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	6010B	259167
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	6010B	259167

General Chemistry

Analysis Batch: 259151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-1	DG-AV12S-0.5-1	Total/NA	Solid	Moisture	
720-90960-2	DG-AV12S-3.5-4	Total/NA	Solid	Moisture	
720-90960-3	DG-AV12S-19.5-20	Total/NA	Solid	Moisture	
720-90960-4	DG-AP14S-0.5-1	Total/NA	Solid	Moisture	
720-90960-5	DG-AP14S-3.5-4	Total/NA	Solid	Moisture	
720-90960-6	DG-AM14S-1-1.5	Total/NA	Solid	Moisture	
720-90960-7	DG-AL14S-0.5-1	Total/NA	Solid	Moisture	
720-90960-8	DG-AL14S-3.5-4	Total/NA	Solid	Moisture	
720-90960-9	DG-AK14S-0.5-1	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 259151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-10	DG-AK14S-3.5-4	Total/NA	Solid	Moisture	
720-90960-11	DG-AK16S-0.5-1	Total/NA	Solid	Moisture	
720-90960-12	DG-AK16S-3.5-4	Total/NA	Solid	Moisture	
720-90960-13	DG-AL16S-0.5-1	Total/NA	Solid	Moisture	
720-90960-14	DG-AL15S-1-1.5	Total/NA	Solid	Moisture	
720-90960-15	DG-AJ14S-0.5-1	Total/NA	Solid	Moisture	
720-90960-16	DG-AJ14S-3.5-4	Total/NA	Solid	Moisture	
720-90960-17	DG-AJ15S-0.5-1	Total/NA	Solid	Moisture	
720-90960-18	DG-AJ15S-3.5-4	Total/NA	Solid	Moisture	
720-90960-19	DG-AI16S-1-1.5	Total/NA	Solid	Moisture	
720-90960-1 DU	DG-AV12S-0.5-1	Total/NA	Solid	Moisture	

Analysis Batch: 259155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-90960-20	DG-AI17S-0.5-1	Total/NA	Solid	Moisture	
720-90960-21	DG-AI17S-3.5-4	Total/NA	Solid	Moisture	
720-90960-22	DG-AH15S-0.5-1	Total/NA	Solid	Moisture	
720-90960-23	DG-AH16S-0.5-1	Total/NA	Solid	Moisture	
720-90960-24	DG-AH16S-3.5-4	Total/NA	Solid	Moisture	
720-90960-25	DUP-104	Total/NA	Solid	Moisture	
720-90960-26	DUP-103	Total/NA	Solid	Moisture	
720-90960-27	DUP-120	Total/NA	Solid	Moisture	
720-90960-28	DG-AG16S-0.5-1	Total/NA	Solid	Moisture	
720-90960-29	DG-AG16S-3.5-4	Total/NA	Solid	Moisture	
720-90960-20 DU	DG-AI17S-0.5-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AV12S-0.5-1 — Lab Sample ID: 720-90960-1

Date Collected: 01/22/19 08:45 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		10	259661	02/01/19 12:14	OBI	TAL PLS
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:15	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:34	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AV12S-3.5-4 — Lab Sample ID: 720-90960-2

Date Collected: 01/22/19 08:45 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:20	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:36	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AV12S-19.5-20 — Lab Sample ID: 720-90960-3

Date Collected: 01/22/19 09:00 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:25	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:39	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AP14S-0.5-1 — Lab Sample ID: 720-90960-4

Date Collected: 01/22/19 09:45 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:29	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:41	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AP14S-3.5-4 — Lab Sample ID: 720-90960-5

Date Collected: 01/22/19 09:45 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259661	02/01/19 12:18	OBI	TAL PLS
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:34	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AM14S-1-1.5 — Lab Sample ID: 720-90960-6

Date Collected: 01/22/19 10:05 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:48	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:46	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AL14S-0.5-1 — Lab Sample ID: 720-90960-7

Date Collected: 01/22/19 10:15 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:53	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:48	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AL14S-3.5-4 — Lab Sample ID: 720-90960-8

Date Collected: 01/22/19 10:15 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 19:58	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:55	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DG-AK14S-0.5-1 Lab Sample ID: 720-90960-9

Date Collected: 01/22/19 10:50 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 20:03	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:57	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AK14S-3.5-4 Lab Sample ID: 720-90960-10

Date Collected: 01/22/19 10:50 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 20:07	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 14:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AK16S-0.5-1 Lab Sample ID: 720-90960-11

Date Collected: 01/22/19 11:35 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259153	01/25/19 09:46	SUN	TAL PLS
Total/NA	Analysis	6010B		4	259616	01/31/19 20:12	OBI	TAL PLS
Total/NA	Prep	7471A			259152	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259510	01/30/19 15:02	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AK16S-3.5-4 Lab Sample ID: 720-90960-12

Date Collected: 01/22/19 11:35 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259583	01/31/19 14:51	MAG	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:35	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AL16S-0.5-1 — Lab Sample ID: 720-90960-13

Date Collected: 01/22/19 11:50 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:12	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/06/19 23:12	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:38	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AL15S-1-1.5 — Lab Sample ID: 720-90960-14

Date Collected: 01/22/19 11:55 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:17	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/06/19 23:17	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:40	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AJ14S-0.5-1 — Lab Sample ID: 720-90960-15

Date Collected: 01/22/19 13:15 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:22	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/06/19 23:22	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:43	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AJ14S-3.5-4 — Lab Sample ID: 720-90960-16

Date Collected: 01/22/19 13:15 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:27	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/06/19 23:27	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:45	MAG	TAL PLS

Client Sample ID: DG-AJ14S-3.5-4 — Lab Sample ID: 720-90960-16

Date Collected: 01/22/19 13:15 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AJ15S-0.5-1 — Lab Sample ID: 720-90960-17

Date Collected: 01/22/19 13:30 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:31	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/06/19 23:31	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:52	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AJ15S-3.5-4 — Lab Sample ID: 720-90960-18

Date Collected: 01/22/19 13:30 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:36	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/06/19 23:36	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:54	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AI16S-1-1.5 — Lab Sample ID: 720-90960-19

Date Collected: 01/22/19 13:50 — **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:51	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/06/19 23:51	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:56	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259151	01/24/19 13:49	TNL	TAL PLS

Client Sample ID: DG-AI17S-0.5-1 — Lab Sample ID: 720-90960-20

Date Collected: 01/22/19 14:10 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/06/19 23:56	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/06/19 23:56	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 15:59	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AI17S-3.5-4 — Lab Sample ID: 720-90960-21

Date Collected: 01/22/19 14:10 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:00	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:00	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:01	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AH15S-0.5-1 — Lab Sample ID: 720-90960-22

Date Collected: 01/22/19 14:30 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:05	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:05	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:03	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AH16S-0.5-1 — Lab Sample ID: 720-90960-23

Date Collected: 01/22/19 14:40 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:10	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:10	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:06	MAG	TAL PLS

Client Sample ID: DG-AH16S-0.5-1 — Lab Sample ID: 720-90960-23

Date Collected: 01/22/19 14:40 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AH16S-3.5-4 — Lab Sample ID: 720-90960-24

Date Collected: 01/22/19 14:40 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:15	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:15	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:08	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DUP-104 — Lab Sample ID: 720-90960-25

Date Collected: 01/22/19 00:00 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:20	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:20	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:10	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DUP-103 — Lab Sample ID: 720-90960-26

Date Collected: 01/22/19 00:00 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:25	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:25	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:12	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Lab Chronicle

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Client Sample ID: DUP-120 — Lab Sample ID: 720-90960-27

Date Collected: 01/22/19 00:00 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:30	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:30	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:20	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AG16S-0.5-1 — Lab Sample ID: 720-90960-28

Date Collected: 01/22/19 15:10 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:34	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:34	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:22	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Client Sample ID: DG-AG16S-3.5-4 — Lab Sample ID: 720-90960-29

Date Collected: 01/22/19 15:10 **Matrix: Solid**
Date Received: 01/22/19 18:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	259951	02/07/19 00:49	BKR	TAL PLS
Total/NA	Prep	3050B			259167	01/26/19 11:54	MAA	TAL PLS
Total/NA	Analysis	6010B		4	261958	02/07/19 00:49	BKR	TAL PLS
Total/NA	Prep	7471A			259166	01/30/19 10:38	MAA	TAL PLS
Total/NA	Analysis	7471A		1	259511	01/30/19 16:24	MAG	TAL PLS
Total/NA	Analysis	Moisture		1	259155	01/24/19 14:24	TNL	TAL PLS

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Laboratory: Eurofins TestAmerica, Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2496	01-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Method Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
3050B	Preparation, Metals	SW846	TAL PLS
7471A	Preparation, Mercury	SW846	TAL PLS

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = Eurofins TestAmerica, Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Geosyntec Consultants, Inc. Job ID: 720-90960-1
Project/Site: Brisbane OU-2 Data Gap Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-90960-1	DG-AV12S-0.5-1	Solid	01/22/19 08:45	01/22/19 18:40
720-90960-2	DG-AV12S-3.5-4	Solid	01/22/19 08:45	01/22/19 18:40
720-90960-3	DG-AV12S-19.5-20	Solid	01/22/19 09:00	01/22/19 18:40
720-90960-4	DG-AP14S-0.5-1	Solid	01/22/19 09:45	01/22/19 18:40
720-90960-5	DG-AP14S-3.5-4	Solid	01/22/19 09:45	01/22/19 18:40
720-90960-6	DG-AM14S-1-1.5	Solid	01/22/19 10:05	01/22/19 18:40
720-90960-7	DG-AL14S-0.5-1	Solid	01/22/19 10:15	01/22/19 18:40
720-90960-8	DG-AL14S-3.5-4	Solid	01/22/19 10:15	01/22/19 18:40
720-90960-9	DG-AK14S-0.5-1	Solid	01/22/19 10:50	01/22/19 18:40
720-90960-10	DG-AK14S-3.5-4	Solid	01/22/19 10:50	01/22/19 18:40
720-90960-11	DG-AK16S-0.5-1	Solid	01/22/19 11:35	01/22/19 18:40
720-90960-12	DG-AK16S-3.5-4	Solid	01/22/19 11:35	01/22/19 18:40
720-90960-13	DG-AL16S-0.5-1	Solid	01/22/19 11:50	01/22/19 18:40
720-90960-14	DG-AL15S-1-1.5	Solid	01/22/19 11:55	01/22/19 18:40
720-90960-15	DG-AJ14S-0.5-1	Solid	01/22/19 13:15	01/22/19 18:40
720-90960-16	DG-AJ14S-3.5-4	Solid	01/22/19 13:15	01/22/19 18:40
720-90960-17	DG-AJ15S-0.5-1	Solid	01/22/19 13:30	01/22/19 18:40
720-90960-18	DG-AJ15S-3.5-4	Solid	01/22/19 13:30	01/22/19 18:40
720-90960-19	DG-AI16S-1-1.5	Solid	01/22/19 13:50	01/22/19 18:40
720-90960-20	DG-AI17S-0.5-1	Solid	01/22/19 14:10	01/22/19 18:40
720-90960-21	DG-AI17S-3.5-4	Solid	01/22/19 14:10	01/22/19 18:40
720-90960-22	DG-AH15S-0.5-1	Solid	01/22/19 14:30	01/22/19 18:40
720-90960-23	DG-AH16S-0.5-1	Solid	01/22/19 14:40	01/22/19 18:40
720-90960-24	DG-AH16S-3.5-4	Solid	01/22/19 14:40	01/22/19 18:40
720-90960-25	DUP-104	Solid	01/22/19 00:00	01/22/19 18:40
720-90960-26	DUP-103	Solid	01/22/19 00:00	01/22/19 18:40
720-90960-27	DUP-120	Solid	01/22/19 00:00	01/22/19 18:40
720-90960-28	DG-AG16S-0.5-1	Solid	01/22/19 15:10	01/22/19 18:40
720-90960-29	DG-AG16S-3.5-4	Solid	01/22/19 15:10	01/22/19 18:40

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
Cation_00197	03/07/19	01/22/19	DI,HNO3,HCL, Lot 129810/154852	200 mL	Al10000ppm_s_00032	20 mL	Al	1000 ug/mL
					Ca10000ppm_s_00032	20 mL	Ca	1000 ug/mL
					Fe10K2nd_s_00006	20 mL	Fe	1000 ug/mL
					K10000ppm_s_00018	20 mL	K	1000 ug/mL
					Mg_Std_00018	20 mL	Mg	1000 ug/mL
					Na10000ppm_s_00018	20 mL	Na	1000 ug/mL
.Al10000ppm_s_00032	04/28/19	CPI, Lot 103665-72			(Purchased Reagent)		Al	10000 ug/mL
.Ca10000ppm_s_00032	04/17/19	CPI, Lot 147497-47			(Purchased Reagent)		Ca	10000 ug/mL
.Fe10K2nd_s_00006	02/28/23	ULTRA SCI, Lot CP-0049			(Purchased Reagent)		Fe	10000 ug/mL
.K10000ppm_s_00018	03/07/19	CPI, Lot 106958-75			(Purchased Reagent)		K	10000 ug/mL
.Mg_Std_00018	09/30/22	Ultra, Lot CM-4445			(Purchased Reagent)		Mg	10000 ug/mL
.Na10000ppm_s_00018	04/17/19	CPI International, Lot 107139-81			(Purchased Reagent)		Na	10000 ug/mL
CRI_ICP_00138	02/03/19	12/13/18	DI,HNO&3HCL, Lot 185595/173962	1 L	Ag1000ppm_s_00010	10 uL	Silver	0.01 mg/L
					As1000ppm_s_00008	10 uL	Arsenic	0.01 mg/L
					Ba1000ppm_s_00008	10 uL	Barium	0.01 mg/L
					Be1000ppm_s_00007	4 uL	Beryllium	0.004 mg/L
					Cd1000ppm_s_00007	4 uL	Cadmium	0.004 mg/L
					Co1000ppm_s_00007	4 uL	Cobalt	0.004 mg/L
					Cr1000ppm_s_00009	20 uL	Chromium	0.02 mg/L
					Cu_Std_00009	40 uL	Copper	0.04 mg/L
					Mo1000ppm_s_00008	20 uL	Molybdenum	0.02 mg/L
					Ni1000ppm_s_00008	20 uL	Nickel	0.02 mg/L
					Pb1000ppm_s_00008	10 uL	Lead	0.01 mg/L
					Sb1000ppm_s_00007	20 uL	Antimony	0.02 mg/L
					Se1000ppm_s_00007	40 uL	Selenium	0.04 mg/L
					Tl1000ppm_s_00008	20 uL	Thallium	0.02 mg/L
					V1000ppm_s_00008	20 uL	Vanadium	0.02 mg/L
					Zn_Std_00009	40 uL	Zinc	0.04 mg/L
.Ag1000ppm_s_00010	06/23/19	CPI, Lot 162712-9			(Purchased Reagent)		Silver	1000 ug/mL
.As1000ppm_s_00008	02/07/19	CPI, Lot 143356-61			(Purchased Reagent)		Arsenic	1000 ug/mL
.Ba1000ppm_s_00008	06/23/19	CPI, Lot 158364-3			(Purchased Reagent)		Barium	1000 ug/mL
.Be1000ppm_s_00007	02/07/19	CPI, Lot 151747R-91			(Purchased Reagent)		Beryllium	1000 ug/mL
.Cd1000ppm_s_00007	06/23/19	CPI, Lot 137386			(Purchased Reagent)		Cadmium	1000 ug/mL
.Co1000ppm_s_00007	06/23/19	CPI, Lot 16I693-10			(Purchased Reagent)		Cobalt	1000 ug/mL
.Cr1000ppm_s_00009	06/23/19	CPI, Lot 163115-4			(Purchased Reagent)		Chromium	1000 ug/mL
.Cu_Std_00009	02/07/19	CPI, Lot 140652-90			(Purchased Reagent)		Copper	1000 ug/mL
.Mo1000ppm_s_00008	06/23/19	CPI, Lot 134169R-102			(Purchased Reagent)		Molybdenum	1000 ug/mL
.Ni1000ppm_s_00008	06/23/19	CPI, Lot 166665-34			(Purchased Reagent)		Nickel	1000 ug/mL
.Pb1000ppm_s_00008	06/23/19	CPI, Lot 165343-9			(Purchased Reagent)		Lead	1000 ug/mL
.Sb1000ppm_s_00007	02/07/19	CPI, Lot 153992-1			(Purchased Reagent)		Antimony	1000 ug/mL
.Se1000ppm_s_00007	06/23/19	CPI, Lot 154366-16			(Purchased Reagent)		Selenium	1000 ug/mL
.Tl1000ppm_s_00008	06/23/19	CPI, Lot 148983-70			(Purchased Reagent)		Thallium	1000 ug/mL
.V1000ppm_s_00008	02/07/19	CPI, Lot 152207-10			(Purchased Reagent)		Vanadium	1000 ug/mL
.Zn_Std_00009	06/23/19	CPI, Lot 115752-148			(Purchased Reagent)		Zinc	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
CRI_ICP_00139	03/01/19	02/02/19	DI,HNO&3HCL, Lot 185595/173962	1 L	Ag1000ppm_s_00010	10 uL	Silver	0.01 mg/L
					As1000ppm_s_00009	10 uL	Arsenic	0.01 mg/L
					Ba1000ppm_s_00008	10 uL	Barium	0.01 mg/L
					Be1000ppm_s_00008	4 uL	Beryllium	0.004 mg/L
					Cd1000ppm_s_00007	4 uL	Cadmium	0.004 mg/L
					Co1000ppm_s_00007	4 uL	Cobalt	0.004 mg/L
					Cr1000ppm_s_00009	20 uL	Chromium	0.02 mg/L
					Cu_Std_00010	40 uL	Copper	0.04 mg/L
					Mo1000ppm_s_00008	20 uL	Molybdenum	0.02 mg/L
					Ni1000ppm_s_00008	20 uL	Nickel	0.02 mg/L
					Pb1000ppm_s_00008	10 uL	Lead	0.01 mg/L
					Sb1000ppm_s_00008	20 uL	Antimony	0.02 mg/L
					Se1000ppm_s_00007	40 uL	Selenium	0.04 mg/L
					Tl1000ppm_s_00008	20 uL	Thallium	0.02 mg/L
					V1000ppm_s_00009	20 uL	Vanadium	0.02 mg/L
					Zn_Std_00009	40 uL	Zinc	0.04 mg/L
.Ag1000ppm_s_00010	06/23/19		CPI, Lot 162712-9		(Purchased Reagent)		Silver	1000 ug/mL
.As1000ppm_s_00009	04/02/19		CPI, Lot 143356-61		(Purchased Reagent)		Arsenic	1000 ug/mL
.Ba1000ppm_s_00008	06/23/19		CPI, Lot 158364-3		(Purchased Reagent)		Barium	1000 ug/mL
.Be1000ppm_s_00008	04/02/19		CPI, Lot 151747R-91		(Purchased Reagent)		Beryllium	1000 ug/mL
.Cd1000ppm_s_00007	06/23/19		CPI, Lot 137386		(Purchased Reagent)		Cadmium	1000 ug/mL
.Co1000ppm_s_00007	06/23/19		CPI, Lot 16I693-10		(Purchased Reagent)		Cobalt	1000 ug/mL
.Cr1000ppm_s_00009	06/23/19		CPI, Lot 163115-4		(Purchased Reagent)		Chromium	1000 ug/mL
.Cu_Std_00010	04/02/19		CPI, Lot 140652-90		(Purchased Reagent)		Copper	1000 ug/mL
.Mo1000ppm_s_00008	06/23/19		CPI, Lot 134169R-102		(Purchased Reagent)		Molybdenum	1000 ug/mL
.Ni1000ppm_s_00008	06/23/19		CPI, Lot 166665-34		(Purchased Reagent)		Nickel	1000 ug/mL
.Pb1000ppm_s_00008	06/23/19		CPI, Lot 165343-9		(Purchased Reagent)		Lead	1000 ug/mL
.Sb1000ppm_s_00008	04/02/19		CPI, Lot 153992-1		(Purchased Reagent)		Antimony	1000 ug/mL
.Se1000ppm_s_00007	06/23/19		CPI, Lot 154366-16		(Purchased Reagent)		Selenium	1000 ug/mL
.Tl1000ppm_s_00008	06/23/19		CPI, Lot 148983-70		(Purchased Reagent)		Thallium	1000 ug/mL
.V1000ppm_s_00009	04/02/19		CPI, Lot 152207-10		(Purchased Reagent)		Vanadium	1000 ug/mL
.Zn_Std_00009	06/23/19		CPI, Lot 115752-148		(Purchased Reagent)		Zinc	1000 ug/mL
ICP ICV_00287	02/03/19	12/13/18	DI,HNO&3HCL, Lot 185595/173962	1000 mL	MetICVSpike_s_00015	5 mL	Antimony	0.5 ug/mL
							Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Beryllium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Cobalt	0.5 ug/mL
							Copper	0.5 ug/mL
							Lead	0.5 ug/mL
							Molybdenum	0.5 ug/mL
							Nickel	0.5 ug/mL
							Selenium	0.5 ug/mL
							Silver	0.25 ug/mL
							Thallium	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vanadium	0.5 ug/mL
							Zinc	0.5 ug/mL
.MetICVSpike_s_00015	04/05/19	SCP Science, Lot S180222037			(Purchased Reagent)		Antimony	100 ug/mL
							Arsenic	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Molybdenum	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL
							Silver	50 ug/mL
							Thallium	100 ug/mL
							Vanadium	100 ug/mL
							Zinc	100 ug/mL
ICP ICV_00288	03/01/19	02/02/19	DI,HNO&3HCL, Lot 185595/173962	1000 mL	MetICVSpike_s_00015	5 mL	Antimony	0.5 ug/mL
							Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Beryllium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Cobalt	0.5 ug/mL
							Copper	0.5 ug/mL
							Lead	0.5 ug/mL
							Molybdenum	0.5 ug/mL
							Nickel	0.5 ug/mL
							Selenium	0.5 ug/mL
							Silver	0.25 ug/mL
							Thallium	0.5 ug/mL
							Vanadium	0.5 ug/mL
							Zinc	0.5 ug/mL
.MetICVSpike_s_00015	04/05/19	SCP Science, Lot S180222037			(Purchased Reagent)		Antimony	100 ug/mL
							Arsenic	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Molybdenum	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL
							Silver	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Thallium	100 ug/mL
							Vanadium	100 ug/mL
							Zinc	100 ug/mL
ICSA_00142	02/03/19	12/13/18	DI,HNO&3HCL, Lot 185595/173962	500 mL	Al10000ppm_s_00031	25 mL	Al	500 ug/mL
					Ca10000ppm_s_00035	25 mL	Ca	500 ug/mL
					Fe10000ppm_s_00030	25 mL	Fe	500 ug/mL
					Mg10000ppm_s_00032	25 mL	Mg	500 ug/mL
.Al10000ppm_s_00031	04/17/19		CPI, Lot 158058-9		(Purchased Reagent)		Al	10000 ug/mL
.Ca10000ppm_s_00035	04/20/19		CPI, Lot 147497-30		(Purchased Reagent)		Ca	10000 ug/mL
.Fe10000ppm_s_00030	07/31/19		CPI, Lot 156651-18		(Purchased Reagent)		Fe	10000 ug/mL
.Mg10000ppm_s_00032	07/31/19		CPI, Lot 148250-25		(Purchased Reagent)		Mg	10000 ug/mL
ICSA_00143	03/01/19	02/02/19	DI,HNO&3HCL, Lot 185595/173962	500 mL	Al10000ppm_s_00031	25 mL	Al	500 ug/mL
					Ca10000ppm_s_00035	25 mL	Ca	500 ug/mL
					Fe10000ppm_s_00030	25 mL	Fe	500 ug/mL
					Mg10000ppm_s_00032	25 mL	Mg	500 ug/mL
.Al10000ppm_s_00031	04/17/19		CPI, Lot 158058-9		(Purchased Reagent)		Al	10000 ug/mL
.Ca10000ppm_s_00035	04/20/19		CPI, Lot 147497-30		(Purchased Reagent)		Ca	10000 ug/mL
.Fe10000ppm_s_00030	07/31/19		CPI, Lot 156651-18		(Purchased Reagent)		Fe	10000 ug/mL
.Mg10000ppm_s_00032	07/31/19		CPI, Lot 148250-25		(Purchased Reagent)		Mg	10000 ug/mL
ICSAB_00144	02/03/19	12/13/18	DI,HNO3HCL, Lot 185595/173962	500 mL	Al10000ppm_s_00031	25 mL	Al	500 ug/mL
					Ca10000ppm_s_00035	25 mL	Ca	500 ug/mL
					Fe10000ppm_s_00030	25 mL	Fe	500 ug/mL
					MetCalSpike_s_00067	1.25 mL	Antimony	0.25 ug/mL
							Arsenic	0.25 ug/mL
							B	0.25 ug/mL
							Barium	0.25 ug/mL
							Beryllium	0.25 ug/mL
							Cadmium	0.25 ug/mL
							Chromium	0.25 ug/mL
							Cobalt	0.25 ug/mL
							Copper	0.25 ug/mL
							Lead	0.25 ug/mL
							Mn	0.25 ug/mL
							Molybdenum	0.25 ug/mL
							Nickel	0.25 ug/mL
							Selenium	0.25 ug/mL
							Silver	0.125 ug/mL
							Sn	0.25 ug/mL
							Sr	0.25 ug/mL
							Thallium	0.25 ug/mL
							Vanadium	0.25 ug/mL
							Zinc	0.25 ug/mL
					Mg10000ppm_s_00032	25 mL	Mg	500 ug/mL
.Al10000ppm_s_00031	04/17/19		CPI, Lot 158058-9		(Purchased Reagent)		Al	10000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.Ca10000ppm_s_00035	04/20/19		CPI, Lot 147497-30		(Purchased Reagent)		Ca	10000 ug/mL
.Fe10000ppm_s_00030	07/31/19		CPI, Lot 156651-18		(Purchased Reagent)		Fe	10000 ug/mL
.MetCalSpike_s_00067	03/01/19		CPI, Lot 10074935-3		(Purchased Reagent)		Antimony	100 ug/mL
							Arsenic	100 ug/mL
							B	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Mn	100 ug/mL
							Molybdenum	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL
							Silver	50 ug/mL
							Sn	100 ug/mL
							Sr	100 ug/mL
							Thallium	100 ug/mL
							Vanadium	100 ug/mL
							Zinc	100 ug/mL
.Mg10000ppm_s_00032	07/31/19		CPI, Lot 148250-25		(Purchased Reagent)		Mg	10000 ug/mL
ICSAB_00145	03/01/19	02/02/19	DI,HNO3HCL, Lot 185595/173962	500 mL	Al10000ppm_s_00031	25 mL	Al	500 ug/mL
					Ca10000ppm_s_00035	25 mL	Ca	500 ug/mL
					Fe10000ppm_s_00030	25 mL	Fe	500 ug/mL
					MetCalSpike_s_00067	1.25 mL	Antimony	0.25 ug/mL
							Arsenic	0.25 ug/mL
							B	0.25 ug/mL
							Barium	0.25 ug/mL
							Beryllium	0.25 ug/mL
							Cadmium	0.25 ug/mL
							Chromium	0.25 ug/mL
							Cobalt	0.25 ug/mL
							Copper	0.25 ug/mL
							Lead	0.25 ug/mL
							Mn	0.25 ug/mL
							Molybdenum	0.25 ug/mL
							Nickel	0.25 ug/mL
							Selenium	0.25 ug/mL
							Silver	0.125 ug/mL
							Sn	0.25 ug/mL
							Sr	0.25 ug/mL
							Thallium	0.25 ug/mL
							Vanadium	0.25 ug/mL
							Zinc	0.25 ug/mL
					Mg10000ppm_s_00032	25 mL	Mg	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.Al10000ppm_s_00031	04/17/19		CPI, Lot 158058-9		(Purchased Reagent)		Al	10000 ug/mL
.Ca10000ppm_s_00035	04/20/19		CPI, Lot 147497-30		(Purchased Reagent)		Ca	10000 ug/mL
.Fe10000ppm_s_00030	07/31/19		CPI, Lot 156651-18		(Purchased Reagent)		Fe	10000 ug/mL
.MetCalSpike_s_00067	03/01/19		CPI, Lot 10074935-3		(Purchased Reagent)		Antimony	100 ug/mL
							Arsenic	100 ug/mL
							B	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Mn	100 ug/mL
							Molybdenum	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL
							Silver	50 ug/mL
							Sn	100 ug/mL
							Sr	100 ug/mL
							Thallium	100 ug/mL
							Vanadium	100 ug/mL
							Zinc	100 ug/mL
.Mg10000ppm_s_00032	07/31/19		CPI, Lot 148250-25		(Purchased Reagent)		Mg	10000 ug/mL
MetCalSpike_s_00067	03/01/19		CPI, Lot 10074935-3		(Purchased Reagent)		Antimony	100 ug/mL
							Arsenic	100 ug/mL
							Au	100 ug/mL
							B	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Mn	100 ug/mL
							Molybdenum	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL
							Si	100 ug/mL
							Silver	50 ug/mL
							Sn	100 ug/mL
							Sr	100 ug/mL
							Thallium	100 ug/mL
							Ti	100 ug/mL
							Vanadium	100 ug/mL
							Zinc	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
S Hg ICV_01698	01/31/19	01/30/19	DI,HNO3,HCL, Lot 160739/163526	100 mL	Hg icv&ccv_s_00008	25 uL	Mercury	0.25 ug/mL
.Hg icv&ccv_s_00008	02/14/19	CPI, Lot 143369-74			(Purchased Reagent)		Mercury	1000 mg/L
S1_00164	02/03/19	12/13/18	DI,HNO3,HCL, Lot 185595/173962	1000 mL	MetCalSpike_s_00067	10 mL	Antimony	1 ug/mL
							Arsenic	1 ug/mL
							Barium	1 ug/mL
							Beryllium	1 ug/mL
							Cadmium	1 ug/mL
							Chromium	1 ug/mL
							Cobalt	1 ug/mL
							Copper	1 ug/mL
							Lead	1 ug/mL
							Molybdenum	1 ug/mL
							Nickel	1 ug/mL
							Selenium	1 ug/mL
							Silver	0.5 ug/mL
							Thallium	1 ug/mL
							Vanadium	1 ug/mL
							Zinc	1 ug/mL
.MetCalSpike_s_00067	03/01/19	CPI, Lot 10074935-3			(Purchased Reagent)		Antimony	100 ug/mL
							Arsenic	100 ug/mL
							Barium	100 ug/mL
							Beryllium	100 ug/mL
							Cadmium	100 ug/mL
							Chromium	100 ug/mL
							Cobalt	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Molybdenum	100 ug/mL
							Nickel	100 ug/mL
							Selenium	100 ug/mL
							Silver	50 ug/mL
							Thallium	100 ug/mL
							Vanadium	100 ug/mL
							Zinc	100 ug/mL

Reagent

Ag1000ppm_s_00010

REPORT OF ANALYSIS

Single-Element Aqueous RM — Product #: S4400-1000511

Silver (Ag) – 1000 µg/mL — Lot #: 162712-9

Matrix: 2% HNO_3

Element	Certified Concentration
Ag	1000 µg/mL (w/v)
	994 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure silver (Ag) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3151**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	MAJOR	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	1	Cr	0.7	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	10	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	137	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

June 15, 2018
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Reagent

Al10000ppm_s_00031

REPORT OF ANALYSIS

Single-Element Aqueous RM

Aluminum (Al) – 10,000 µg/mL

Product #: 4400-10M11

Matrix: 10% HNO_3

Lot #: 158058-9

Element	Certified Concentration
Al	10,000 µg/mL (w/v)
	9430 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.999% pure aluminum nitrate [$Al(NO_3)_3$] dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3101a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Ce	<2	Gd	<2	Lu	<2	Pb	<10	Se	<20	Tl	<5
Al	MAJOR	Co	<10	Ge	<5	Mg	<50	Pd	<5	Si	<1000	Tm	<2
As	<20	Cs	<5	Hf	<2	Mn	<10	Pr	<2	Sm	<2	U	<5
Au	<5	Cr	32	Hg	<5	Mo	11	Pt	<5	Sn	<5	V	<10
B	<50	Cu	<10	Ho	<2	Na	4101	Rb	<5	Sr	<10	W	<5
Ba	<10	Dy	<2	In	nd	Nb	<5	Re	<2	Ta	<5	Y	<5
Be	<5	Er	<2	Ir	<2	Nd	<2	Rh	<5	Tb	<5	Yb	<2
Bi	<2	Eu	<2	K	<250	Ni	<20	Ru	19	Te	<10	Zn	30
Ca	1082	Fe	525	La	<5	Os	<5	Sb	<5	Th	<5	Zr	6
Cd	<5	Ga	410	Li	<20	P	<1000	Sc	<50	Ti	36		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

February 6, 2018

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Reagent

Al10000ppm_s_00032

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: 4400-10M11

Aluminum (Al) – 10,000 µg/mL

Lot #: 103665-72

Matrix: 10% HNO_3

Element	Certified Concentration
Al	10,020 µg/mL (w/v)
	9449 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.999% pure aluminum nitrate [$Al(NO_3)_3$] dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3101a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Ce	<2	Gd	<2	Lu	<2	Pb	<10	Se	<20	Tl	<5
Al	MAJOR	Co	<10	Ge	<5	Mg	<50	Pd	<5	Si	<1000	Tm	<2
As	<20	Cs	<5	Hf	<2	Mn	<10	Pr	<2	Sm	<2	U	<5
Au	<5	Cr	32	Hg	<5	Mo	12	Pt	<5	Sn	<5	V	<10
B	63	Cu	<10	Ho	<2	Na	4470	Rb	<5	Sr	<10	W	<5
Ba	<10	Dy	<2	In	nd	Nb	<5	Re	<2	Ta	<5	Y	<5
Be	<5	Er	<2	Ir	<2	Nd	<2	Rh	<5	Tb	<5	Yb	<2
Bi	<2	Eu	<2	K	<250	Ni	<20	Ru	<5	Te	<10	Zn	35
Ca	1140	Fe	479	La	<5	Os	<5	Sb	<5	Th	<5	Zr	7
Cd	<5	Ga	416	Li	<20	P	<1000	Sc	<50	Ti	36		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

October 28, 2017

Certification Date

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Reagent

As1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-100031

Arsenic (As) – 1000 µg/mL

Lot #: 143356-61

Matrix: 2% HNO_3

Element	Certified Concentration
As	999 µg/mL (w/v)
	976 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure arsenic (As) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3103a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	1	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	MAJOR	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	2	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	1	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

As1000ppm_s_00009

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-100031

Arsenic (As) – 1000 µg/mL

Lot #: 143356-61

Matrix: 2% HNO_3

Element	Certified Concentration
As	999 µg/mL (w/v)
	976 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure arsenic (As) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3103a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	1	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	MAJOR	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	2	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	1	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Ba1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-100041

Barium (Ba) – 1000 µg/mL

Lot #: 158364-3

Matrix: 2% HNO_3

Element	Certified Concentration
Ba	1003 µg/mL (w/v)
	998 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure barium nitrate ($Ba(NO_3)_2$) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3104a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	0.7	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	30	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	0.6	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	4.5	W	<0.5
Ba	MAJOR	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	2
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<5	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<2	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

June 15, 2018

Certification Date

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Reagent

Be1000ppm_s_00007

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-100051

Beryllium (Be) – 1000 µg/mL

Lot #: 151747R-91

Matrix: 2% HNO_3

Element	Certified Concentration
Be	1002 µg/mL (w/v)
	988 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.995% pure beryllium acetate [$Be_4O(C_2H_3O_2)_6$] dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3105a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	13	Ce	<0.2	Gd	<1	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	8	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	0.7	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	Major	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.5	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	1	Zn	6
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Be1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-100051

Beryllium (Be) – 1000 µg/mL

Lot #: 151747R-91

Matrix: 2% HNO_3

Element	Certified Concentration
Be	1002 µg/mL (w/v)
	988 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.995% pure beryllium acetate [$Be_4O(C_2H_3O_2)_6$] dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3105a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	13	Ce	<0.2	Gd	<1	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	8	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	0.7	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	Major	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.5	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	1	Zn	6
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Ca10000ppm_s_00035

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: 4400-10M91

Calcium (Ca) – 10,000 µg/mL

Lot #: 147497-30

Matrix: 4% HNO_3

Element	Certified Concentration
Ca	9989 µg/mL (w/v)
	9652 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.999% pure calcium carbonate ($CaCO_3$) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3109a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Ce	<2	Gd	<2	Lu	<2	Pb	<10	Se	<20	Tl	<5
Al	<20	Co	<10	Ge	<5	Mg	<50	Pd	<5	Si	<1000	Tm	<2
As	<20	Cs	<5	Hf	<2	Mn	<10	Pr	<2	Sm	<2	U	<5
Au	<5	Cr	<5	Hg	<5	Mo	<5	Pt	<5	Sn	6	V	<10
B	<50	Cu	<10	Ho	<2	Na	<250	Rb	<5	Sr	294	W	<5
Ba	<10	Dy	<2	In	nd	Nb	<5	Re	<2	Ta	<5	Y	<5
Be	<5	Er	<2	Ir	<2	Nd	<2	Rh	<5	Tb	<5	Yb	<2
Bi	<2	Eu	<2	K	<250	Ni	<20	Ru	<5	Te	<10	Zn	<20
Ca	MAJOR	Fe	<100	La	9	Os	<5	Sb	<5	Th	<5	Zr	<5
Cd	<5	Ga	<5	Li	<20	P	<1000	Sc	<50	Ti	<20		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

October 28, 2017

Certification Date

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Reagent

Cd1000ppm_s_00007

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-100081

Cadmium (Cd) – 1000 µg/mL

Lot #: 137386RR-111

Matrix: 2% HNO_3

Element	Certified Concentration
Cd	996 µg/mL (w/v)
	989 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9997% pure cadmium (Cd) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3108**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	3	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	0.288	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	Major	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Co1000ppm_s_00007

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000131

Cobalt (Co) – 1000 µg/mL

Lot #: 161693-10

Matrix: 2% HNO_3

Element	Certified Concentration
Co	1001 µg/mL (w/v)
	997 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure cobalt (Co) powder dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3113**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	0.4	Gd	<0.2	Lu	<0.2	Pb	3	Se	<2	Tl	<0.5
Al	10	Co	MAJOR	Ge	<0.5	Mg	<5	Pd	1	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	4	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	2
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	2	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Cr1000ppm_s_00009

REPORT OF ANALYSIS

Single-Element Aqueous RM — Product #: S4400-1000121

Chromium (Cr) – 1000 µg/mL — Lot #: 163115-4

Matrix: 2% HNO_3

Element	Certified Concentration
Cr	1003 µg/mL (w/v)
	997 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.99% pure chromium metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3112a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	MAJOR	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	13	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	1	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

June 15, 2018

Certification Date

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Reagent

Cu_Std_00009

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000141

Copper (Cu) – 1000 µg/mL

Lot #: 140652-90

Matrix: 2% HNO_3

Element	Certified Concentration
Cu	1003 µg/mL (w/v)
	998 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure copper (Cu) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3114**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	MAJOR	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Cu_Std_00010

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000141

Copper (Cu) – 1000 µg/mL

Lot #: 140652-90

Matrix: 2% HNO_3

Element	Certified Concentration
Cu	1003 µg/mL (w/v)
	998 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure copper (Cu) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3114**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	MAJOR	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Fe10000ppm_s_00030

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: 4400-10M261

Iron (Fe) – 10,000 µg/mL

Lot #: 156651-18

Matrix: 4% HNO_3

Element	Certified Concentration
Fe	10,010 µg/mL (w/v)
	9609 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.999% pure iron nitrate nonahydrate [$Fe(NO_3)_3$] in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3126a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Ce	<2	Gd	<2	Lu	<2	Pb	<10	Se	<20	Tl	<5
Al	37	Co	24	Ge	<5	Mg	<50	Pd	<5	Si	<1000	Tm	<2
As	<20	Cs	<5	Hf	<2	Mn	13	Pr	<2	Sm	<2	U	<5
Au	<5	Cr	37	Hg	<5	Mo	<5	Pt	<5	Sn	<5	V	<10
B	<50	Cu	<10	Ho	<2	Na	<250	Rb	<5	Sr	<10	W	<5
Ba	27	Dy	<2	In	nd	Nb	<5	Re	<2	Ta	<5	Y	<5
Be	<5	Er	<2	Ir	<2	Nd	<2	Rh	<5	Tb	<5	Yb	<2
Bi	<2	Eu	<2	K	<250	Ni	<20	Ru	<5	Te	<10	Zn	<20
Ca	<250	Fe	MAJOR	La	<5	Os	<5	Sb	<5	Th	<5	Zr	<5
Cd	<5	Ga	<5	Li	<20	P	<1000	Sc	<50	Ti	<20		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

February 6, 2018

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Reagent

Fe10K2nd_s_00006

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

2307559
ID: Fe10K2nd_s_00006
Exp: 02/28/23 Prpd: SLK
FE ICP STD

TRIPLE ISO CERTIFICATION ULTRA ISO 17025 • ISO GUIDE 34 • ISO 9001

ISO Guide 34 Reference Material

Product Number: ICP-126
Lot Number: CP-0049

Lot Issue Date: 12-Jan 2016
Expiration Date: 28-Feb 2023

Product Name: Iron ICP Standard

Description:
This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under ULTRA Scientific's ISO 9001 registered quality system. The neat materials used for this product have been verified by ULTRA's ISO 17025 laboratory and under ULTRA's ISO Guide 34 accreditation. The analyte concentrations were verified by ULTRA's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Calculated Value	True Value	Traceability & Method
Iron	iron nitrate nonahydrate	RM10531	99.999%	10008 ± 20 µg/mL	10242 ± 44 µg/mL	NIST SRM 3126a; ICP-OES

Solvent: 2% nitric acid in low TOC water (< 50 ppb)

Non-Certified Values:

Density: 1.0440 g/mL @ 20.00 ± 0.05°C

Trace Metallic Impurities in Solution Standard in µg/mL

*	Al	<0.005 D	*	Ga	<0.005 ND	n	Nb		n	S	
*	Sb	<0.005 ND	n	Ge		n	Os		n	Ta	
*	As	<0.005 ND	n	Au		*	Pd	<0.005 ND	n	Te	
*	Ba	<0.005 ND	n	Hf		*	P	<0.005 ND	n	Tb	
*	Be	<0.005 ND	n	Ho		*	Pt	<0.005 ND	*	Tl	<0.005 ND
*	Bi	<0.005 ND	*	In	<0.005 ND	*	K	<0.005 ND	n	Th	
*	B	<0.005 ND	n	Ir		n	Pr		n	Tm	
*	Cd	<0.005 ND	s	Fe		n	Re		*	Sn	<0.005 ND
n	Cs		*	La	<0.005 ND	n	Rh		*	Ti	<0.005 ND
*	Ca	<0.005 D	*	Pb	<0.005 ND	n	Rb		n	W	
n	Ce		*	Li	<0.005 ND	n	Ru		n	U	
*	Cr	<0.005 D	n	Lu		n	Sm		*	V	<0.005 ND
*	Co	<0.005 ND	*	Mg	<0.005 ND	n	Sc		n	Yb	
*	Cu	<0.005 ND	*	Mn	<0.005 ND	*	Se	<0.005 ND	n	Y	
n	Dy		*	Hg	<0.005 ND	*	Si	<0.005 ND	*	Zn	<0.005 D
*	Er	<0.005 ND	*	Mo	<0.005 ND	*	Ag	<0.005 ND	n	Zr	
*	Eu	<0.005 ND	n	Nd		*	Na	<0.005 D			
*	Gd	<0.005 ND	*	Ni	<0.005 ND	*	Sr	<0.005 ND			

* - element checked; i - spectral interference; n – element not checked; D – element detected; ND – element not detected; s - standard element

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ANAB ACCREDITED TESTING LABORATORY

ISO 9001 Registered Quality System – TUV USA

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ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

TRIPLE ISO CERTIFICATION — ULTRA — ISO 17025 • ISO GUIDE 34 • ISO 9001

ISO Guide 34 Reference Material

Product Number: ICP-126
Lot Number: CP-0049

Lot Issue Date: 12-Jan 2016
Expiration Date: 28-Feb 2023

Storage: Store at Room Temperature (15° to 30°C).

Traceability:
Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:
The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:
This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:
Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, ULTRA Scientific will notify the purchaser.

Peter A. King, Ph.D.
VP, Technical Operations

Daniel J. Lamendola
Director of QA/RA

ANAB ACCREDITED — REFERENCE MATERIAL PRODUCER
ANAB ACCREDITED — TESTING LABORATORY

ISO 9001 Registered Quality System – TUV USA

Reagent

Hg icv&ccv_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000331

Mercury (Hg) – 1000 µg/mL

Lot #: 143369-74

Matrix: 2% HNO_3

Element	Certified Concentration
Hg	997 µg/mL (w/v)
	981 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure mercury (Hg) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3133**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	6	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	1	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	MAJOR	Mo	<0.5	Pt	<0.5	Sn	2	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	4	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

February 6, 2018

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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www.cpiinternational.com

Reagent

K10000ppm_s_00018

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: 4400-10M411

Potassium (K) – 10,000 µg/mL

Lot #: 106958-75

Matrix: 1% HNO_3

Element	Certified Concentration
K	9923 µg/mL (w/v)
	9610 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.999% pure potassium nitrate (KNO_3) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3141a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Ce	<2	Gd	<2	Lu	<2	Pb	<10	Se	<20	Tl	<5
Al	<20	Co	<10	Ge	<5	Mg	<50	Pd	<5	Si	<1000	Tm	<2
As	<20	Cs	<5	Hf	<2	Mn	<10	Pr	<2	Sm	<2	U	<5
Au	<5	Cr	<5	Hg	<5	Mo	<5	Pt	<5	Sn	<5	V	<10
B	<50	Cu	<10	Ho	<2	Na	<250	Rb	51	Sr	<10	W	<5
Ba	<10	Dy	<2	In	nd	Nb	<5	Re	<2	Ta	<5	Y	<5
Be	<5	Er	<2	Ir	<2	Nd	<2	Rh	<5	Tb	<5	Yb	<2
Bi	<2	Eu	<2	K	MAJOR	Ni	<20	Ru	<5	Te	<10	Zn	<20
Ca	<250	Fe	<100	La	<5	Os	<5	Sb	<5	Th	<5	Zr	<5
Cd	<5	Ga	<5	Li	<20	P	<1000	Sc	<50	Ti	<20		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

October 17, 2017

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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www.cpiinternational.com

Reagent

MetCalSpike_s_00067

CPI INTERNATIONAL

REPORT OF ANALYSIS

Multi-Element Aqueous RM

Product #: 4400-090529RH03-500

Custom Cal-Spike Solution Standard

Lot #: 10074935-3

Matrix: 20% HCl

Element	Certified Concentration	Element	Certified Concentration	Element	Certified Concentration
Ag	50.0 µg/mL	Cr	100 µg/mL	Si	100 µg/mL
As	100 µg/mL	Cu	101 µg/mL	Sn	100 µg/mL
Au	100 µg/mL	Mn	100 µg/mL	Sr	100 µg/mL
B	100 µg/mL	Mo	100 µg/mL	Ti	100 µg/mL
Ba	100 µg/mL	Ni	100 µg/mL	Tl	100 µg/mL
Be	100 µg/mL	Pb	99.9 µg/mL	V	100 µg/mL
Cd	101 µg/mL	Sb	100 µg/mL	Zn	101 µg/mL
Co	100 µg/mL	Se	100 µg/mL		

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to the certified concentrations shown above by gravimetric methods using single-element concentrates, and was stabilized using high purity hydrochloric acid (HCl) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

February 23, 2018

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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This RM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM		Analyte	Aq. SRM	MO SRM		Analyte	Aq. SRM	MO SRM
Ag	3151	1077a		Hf	3122	—		S	3154	2770
Al	3101a	1075a		Hg	3133	3133		Sb	3102a	3102a
As	3103a	3103a		Ho	3123a	—		Sc	3148a	3148a
Au	3121	—		In	3124a	3124a		Se	3149	3149
B	3107	3107		K	3141a	3141a		Si	3150	1066a
Ba	3104a	1051b		La	3127a	3127a		Sm	3147a	—
Be	3105a	3105a		Li	3129a	3129a		Sn	3161a	1057b
Bi	3106	3106		Lu	3130a	—		SO_4^{-2}	3181	—
Br^-	3184	—		Mg	3131a	3131a		Sr	3153a	3153a
Ca	3109a	3109a		Mn	3132	3132		Ta	3155	—
Cd	3108	1053a		Mo	3134	3134		Tb	3157a	—
Ce	3110	3110		Na	3152a	3152a		Te	3156	—
Cl^-	3182	1818a		Nb	3137	—		Th	3159	—
Co	3113	3113		Nd	3135a	—		Ti	3162a	3162a
Cr	3112a	1078b		Ni	3136	1065b		Tl	3158	3158
Cs	3111a	—		NO_3^-	3185	—		Tm	3160a	—
Cu	3114	1080a		P	3139a	3139a		U	3164	—
Dy	3115a	—		Pb	3128	3128		V	3165	1052b
Er	3116a	—		Pd	3138	—		W	3163	3163
Eu	3117a	—		PO_4^{-3}	3186	—		Y	3167a	3167a
F^-	3183	—		Pr	3142a	—		Yb	3166a	—
Fe	3126a	1079b		Pt	3140	3140		Zn	3168a	3168a
Ga	3119a	—		Rb	3145a	—		Zr	3169	3169
Gd	3118a	—		Re	3143	—				
Ge	3120a	—		Rh	3144	3144				

Reagent

MetICVSpike_s_00015

SCP SCIENCE
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Certificate of Analysis

1.0 DESCRIPTION :

Plasma CAL – Custom Standard

Catalogue Number : 600-304-807

Lot Number : S180222037

Matrix: 5.0% HNO3 0.1% HF Traces Tartaric acid

Expiration Date : February 2019

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:

Method of Analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: Applicable NIST Standard Reference Materials (see list below):

3101a	Al	3109a	Ca	3117a	Eu	3126a	Fe	3134	Mo	3142a	Pr	3151	Ag	3159	Th	3167a	Y
3102a	Sb	3110	Ce	3118a	Gd	3127a	La	3135a	Nd	3143	Re	3152a	Na	3160a	Tm	3168a	Zn
3103a	As	3111a	Cs	3119a	Ga	3128	Pb	3136	Ni	3144	Rh	3153a	Sr	3161a	Sn	3169	Zr
3104a	Ba	3112a	Cr	3120a	Ge	3129a	Li	3137	Nb	3145a	Rb	3154	S	3162a	Ti		
3105a	Be	3113	Co	3121	Au	3130a	Lu	3138	Pd	3147a	Sm	3155	Ta	3163	W		
3106	Bi	3114	Cu	3122	Hf	3131a	Mg	3139a	P	3148a	Sc	3156	Te	3164	U		
3107	B	3115a	Dy	3123a	Ho	3132	Mn	3140	Pt	3149	Se	3157a	Tb	3165	V		
3108	Cd	3116a	Er	3124a	In	3133	Hg	3141a	K	3150	Si	3158	Tl	3166a	Yb		

Certified Concentrations:

Ag	49.38 ± 0.36	µg/ml	Ni	99.5 ± 0.8	µg/ml
As	98.7 ± 0.8	µg/ml	Pb	100.2 ± 0.9	µg/ml
B	99.8 ± 0.9	µg/ml	Sb	99.3 ± 0.9	µg/ml
Ba	98.1 ± 0.7	µg/ml	Se	99.6 ± 0.7	µg/ml
Be	98.7 ± 1.0	µg/ml	Si*	100.0 ± 1.0	µg/ml
Cd	99.5 ± 0.6	µg/ml	Sn	98.7 ± 0.7	µg/ml
Co	98.6 ± 0.8	µg/ml	Sr	99.7 ± 0.8	µg/ml
Cr	98.9 ± 0.7	µg/ml	Ti	99.6 ± 0.7	µg/ml
Cu	98.9 ± 0.8	µg/ml	Tl	98.6 ± 0.8	µg/ml
Mn	98.8 ± 0.8	µg/ml	V	99.1 ± 0.8	µg/ml
Mo	100.1 ± 0.9	µg/ml	Zn	99.2 ± 0.7	µg/ml

ACCREDITED
Reference Material Producer
CERTIFICATE #2885.02

*Concentration value derived from v/v dilutions of certified, NIST-traceable starting materials

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) such as the SRM inherited uncertainty, weighing and dilution errors and instrument variability. The combined uncertainty ($uc = v\Sigma u_i^2$) has been multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:

Density: 1.029 g/ml @ 23.1 °C

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Yaling Sui, Chemist

Certification Date: February 23, 2018

Yaling Sui

Reagent

Mg_Std_00018

ULTRA SCIENTIFIC
Analytical Solutions

2307558
ID Mg_Std_00018
Exp 09/30/22 Prpd SLK
10000ppm Magnesium ICP 2n

Certificate of Analysis

ULTRAgrade™ Solution
Magnesium ICP / ICP-MS Standard
10000 µg/mL

Catalog Number: ICP-112
Lot Number: CM-4445
Lot Issue Date: 08/19/2015
Expiration Date: 09/30/2022

Starting Material:	magnesium nitrate hexahydrate
Starting Material Purity:	99.999%
Starting Material Lot #:	RM07690
Matrix:	2% nitric acid in low TOC water (< 50 ppb)
Atomic Weight Mg:	24.31

Certified Value: 10015 ± 20 µg/mL

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO Guide 34 / ISO 17025 accredited laboratory, and compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

Classical Wet Assay Method: Theoretical, based on gravimetric measurements

Confirmation by Inductively Coupled Plasma Spectroscopy (ICP / ICP/MS) vs. NIST SRM 3131a

ULTRA uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of ULTRAgrade standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

Trace Metallic Impurities in Solution Standard in µg/mL:

*	Al	<0.005	ND	*	Ga	<0.005	ND	n	Nb			n	S				
*	Sb	<0.005	ND	n	Ge			n	Os			n	Ta				
*	As	<0.005	ND	n	Au			*	Pd	<0.005	ND	n	Te				
*	Ba	<0.005	ND	n	Hf			*	P	<0.005	ND	n	Tb				
*	Be	<0.005	ND	n	Ho			*	Pt	<0.005	ND	*	Tl	<0.005	ND		
*	Bi	<0.005	ND	*	In	<0.005	ND	*	K	<0.005	ND	n	Th				
*	B	<0.005	ND	n	Ir			n	Pr			n	Tm				
*	Cd	<0.005	ND	*	Fe	<0.005	D	n	Re			*	Sn	<0.005	ND		
*	Ca	<0.005	D	*	La	<0.005	ND	n	Rh			*	Ti	<0.005	ND		
n	Ce			*	Pb	<0.005	ND	n	Rb			n	W				
n	Cs			*	Li	<0.005	ND	n	Ru			n	U				
*	Cr	<0.005	ND	n	Lu			n	Sm			*	V	<0.005	ND		
*	Co	<0.005	ND	s	Mg			n	Sc			n	Yb				
*	Cu	<0.005	ND	*	Mn	<0.005	ND	*	Se	<0.005	ND	n	Y				
n	Dy			*	Hg	<0.005	ND	*	Si	<0.005	ND	*	Zn	<0.005	ND		
*	Er	<0.005	ND	*	Mo	<0.005	ND	*	Ag	<0.005	ND	n	Zr				
*	Eu	<0.005	ND	n	Nd			*	Na	<0.005	ND						
*	Gd	<0.005	ND	s	Ni			*	Sr	<0.005	ND						

* - element checked for
ND – not detected
I – spectral interference
D – detected
n – not checked for
s – solution standard element

Density of Solution (measured at 20.00°C ± 0.05°C): 1.0537 g/mL

William J. Leary
Quality Assurance Manager

ANAB ACCREDITED TESTING LABORATORY

ISO 9001 Registered Quality System – TUV USA

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Reagent

Mg10000ppm_s_00032

CPI INTERNATIONAL

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: 4400-10M311

Magnesium (Mg) – 10,000 µg/mL

Lot #: 148250-25

Matrix: 4% HNO_3

Element	Certified Concentration
Mg	9921 µg/mL (w/v)
	9456 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.999% pure magnesium nitrate [$Mg(NO_3)_2$] dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3131a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	8	Ce	17	Gd	13	Lu	<2	Pb	<10	Se	<20	Tl	<5
Al	<20	Co	<10	Ge	<5	Mg	MAJOR	Pd	<5	Si	<1000	Tm	<2
As	<20	Cs	<5	Hf	<2	Mn	32	Pr	<2	Sm	<2	U	<5
Au	<5	Cr	<5	Hg	<5	Mo	7	Pt	<5	Sn	<5	V	<10
B	<50	Cu	<10	Ho	<2	Na	<250	Rb	<5	Sr	<10	W	<5
Ba	<10	Dy	<2	In	nd	Nb	<5	Re	<2	Ta	<5	Y	<5
Be	<5	Er	<2	Ir	<2	Nd	<2	Rh	<5	Tb	<5	Yb	<2
Bi	<2	Eu	<2	K	<250	Ni	<20	Ru	<5	Te	<10	Zn	<20
Ca	1440	Fe	<100	La	<5	Os	<5	Sb	<5	Th	<5	Zr	<5
Cd	9	Ga	<5	Li	<20	P	<1000	Sc	<50	Ti	<20		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

February 6, 2018

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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www.cpiinternational.com

Reagent

Mo1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000343

Molybdenum (Mo) – 1000 µg/mL

Lot #: 134169R-102

Matrix: 2% HNO_3/0.1% HF

Element	Certified Concentration
Mo	1001 µg/mL (w/v)
	980 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure molybdenum (Mo) dissolved in high purity nitric acid (HNO_3), hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3134**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.5	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	MAJOR	Pt	<0.5	Sn	4	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	71
Ba	<1	Dy	<0.2	In	nd	Nb	<2	Re	7	Ta	0.8	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	0.9	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<1
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

June 15, 2018

Certification Date

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Reagent

Na10000ppm_s_00018

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: 4400-10M521

Sodium (Na) – 10,000 µg/mL

Lot #: 107139-81

Matrix: 3% HNO_3

Element	Certified Concentration
Na	10,010 µg/mL (w/v)
	9731 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.997% pure sodium carbonate (Na_2CO_3) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3152a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Ce	<2	Gd	<2	Lu	<2	Pb	<10	Se	<20	Tl	<5
Al	<20	Co	<10	Ge	<5	Mg	<50	Pd	<5	Si	<1000	Tm	<2
As	<20	Cs	<5	Hf	<2	Mn	<10	Pr	<2	Sm	<2	U	<5
Au	<5	Cr	10	Hg	<5	Mo	<5	Pt	<5	Sn	<5	V	<10
B	<50	Cu	<10	Ho	<2	Na	MAJOR	Rb	<5	Sr	<10	W	<5
Ba	<10	Dy	<2	In	nd	Nb	<5	Re	<2	Ta	<5	Y	<5
Be	<5	Er	<2	Ir	<2	Nd	<2	Rh	<5	Tb	<5	Yb	<2
Bi	<2	Eu	<2	K	<250	Ni	<20	Ru	<5	Te	<10	Zn	<20
Ca	<250	Fe	<100	La	<5	Os	<5	Sb	<5	Th	<5	Zr	<5
Cd	<5	Ga	<5	Li	<20	P	<1000	Sc	<50	Ti	<20		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

October 17, 2017

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Reagent

Ni1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000361

Nickel (Ni) – 1000 µg/mL

Lot #: 166665-34

Matrix: 2% HNO_3

Element	Certified Concentration
Ni	995 µg/mL (w/v)
	990 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.996% pure nickel (Ni) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3136**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	4	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	14
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	MAJOR	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	31	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

June 15, 2018

Certification Date

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Reagent

Pb1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000281

Lead (Pb) – 1000 µg/mL

Lot #: 165343-9

Matrix: 2% HNO_3

Element	Certified Concentration
Pb	1000 µg/mL (w/v)
	996 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure lead (Pb) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3128**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	MAJOR	Se	<2	Tl	1
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<2	Tb	<0.5	Yb	<0.2
Bi	2	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	5	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	0.8	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

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Chuck Goudreau

Chuck Goudreau, Certifying Officer

June 15, 2018

Certification Date

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Reagent

Sb1000ppm_s_00007

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-100023

Antimony (Sb) – 1000 µg/mL

Lot #: 153992-1

Matrix: 5% HNO_3/0.1% HF

Element	Certified Concentration
Sb	1000 µg/mL (w/v)
	977 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using pure antimony (Sb) metal dissolved in high purity nitric acid (HNO_3), hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3102a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018
Certification Date

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Reagent

Sb1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-100023

Antimony (Sb) – 1000 µg/mL

Lot #: 153992-1

Matrix: 5% HNO_3/0.1% HF

Element	Certified Concentration
Sb	1000 µg/mL (w/v)
	977 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using pure antimony (Sb) metal dissolved in high purity nitric acid (HNO_3), hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3102a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018
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Reagent

Se1000ppm_s_00007

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000491

Selenium (Se) – 1000 µg/mL

Lot #: 154366-16

Matrix: 2% HNO_3

Element	Certified Concentration
Se	996 µg/mL (w/v)
	987 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure selenium (Se) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3149**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	MAJOR	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Tl1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Thallium (Tl) – 1000 µg/mL | Product #: S4400-1000581

Matrix: 2% HNO_3 | Lot #: 148983-70

Element	Certified Concentration
Tl	1002 µg/mL (w/v)
	997 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.99% pure thallium (Tl) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3158**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<1	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	5	Se	<2	Tl	MAJOR
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	13	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	2	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	0.3	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	<2
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

June 15, 2018

Certification Date

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Reagent

V1000ppm_s_00008

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000651

Vanadium (V) – 1000 µg/mL

Lot #: 152207-10

Matrix: 2% HNO_3

Element	Certified Concentration
V	998 µg/mL (w/v)
	989 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.995% pure vanadium pentoxide (V_2O_5) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3165**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	8	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	141	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	1
Au	<0.5	Cr	8	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	MAJOR
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	5	Sr	<1	W	<0.5
Ba	28	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	1	Te	<1	Zn	<2
Ca	<25	Fe	18	La	<0.5	Os	<0.5	Sb	1	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	6		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

V1000ppm_s_00009

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000651

Vanadium (V) – 1000 µg/mL

Lot #: 152207-10

Matrix: 2% HNO_3

Element	Certified Concentration
V	998 µg/mL (w/v)
	989 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.995% pure vanadium pentoxide (V_2O_5) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3165**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	8	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	141	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	1
Au	<0.5	Cr	8	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	MAJOR
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	5	Sr	<1	W	<0.5
Ba	28	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	1	Te	<1	Zn	<2
Ca	<25	Fe	18	La	<0.5	Os	<0.5	Sb	1	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	6		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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Reagent

Zn_Std_00009

REPORT OF ANALYSIS

Single-Element Aqueous RM

Product #: S4400-1000681

Zinc (Zn) – 1000 µg/mL

Lot #: 115752-148

Matrix: 2% HNO_3

Element	Certified Concentration
Zn	1001 µg/mL (w/v)
	995 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure zinc (Zn) metal dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration was determined based upon gravimetric procedures. Secondary verification of the certified concentration was performed using ICP-OES and is traceable to **NIST SRM 3168a**. The uncertainty associated with the certified concentration is ±0.5% relative, which is the sum of the estimated errors due to the purity of the raw materials, the gravimetric preparation of the solution, and transpiration through the container. This represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Ce	<0.2	Gd	<0.2	Lu	<0.2	Pb	<1	Se	<2	Tl	<0.5
Al	<2	Co	<1	Ge	<0.5	Mg	<5	Pd	<0.5	Si	<100	Tm	<0.2
As	<2	Cs	<0.5	Hf	<0.2	Mn	<1	Pr	<0.2	Sm	<0.2	U	<0.5
Au	<0.5	Cr	<0.5	Hg	<0.5	Mo	<0.5	Pt	<0.5	Sn	<0.5	V	<1
B	<5	Cu	<1	Ho	<0.2	Na	<25	Rb	<0.5	Sr	<1	W	<0.5
Ba	<1	Dy	<0.2	In	nd	Nb	<0.5	Re	<0.2	Ta	<0.5	Y	<0.5
Be	<0.5	Er	<0.2	Ir	<0.2	Nd	<0.2	Rh	<0.5	Tb	<0.5	Yb	<0.2
Bi	<0.2	Eu	<0.2	K	<25	Ni	<2	Ru	<0.5	Te	<1	Zn	MAJOR
Ca	<25	Fe	<10	La	<0.5	Os	<0.5	Sb	<0.5	Th	<0.5	Zr	<0.5
Cd	<0.5	Ga	<0.5	Li	<2	P	<100	Sc	<5	Ti	<2		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

January 30, 2018

Certification Date

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COVER PAGE
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job Number: 720-90960-1

SDG No.:

Project: Brisbane OU-2 Data Gap Investigation

Client Sample ID	Lab Sample ID
DG-AV12S-0.5-1	720-90960-1
DG-AV12S-3.5-4	720-90960-2
DG-AV12S-19.5-20	720-90960-3
DG-AP14S-0.5-1	720-90960-4
DG-AP14S-3.5-4	720-90960-5
DG-AM14S-1-1.5	720-90960-6
DG-AL14S-0.5-1	720-90960-7
DG-AL14S-3.5-4	720-90960-8
DG-AK14S-0.5-1	720-90960-9
DG-AK14S-3.5-4	720-90960-10
DG-AK16S-0.5-1	720-90960-11
DG-AK16S-3.5-4	720-90960-12
DG-AL16S-0.5-1	720-90960-13
DG-AL15S-1-1.5	720-90960-14
DG-AJ14S-0.5-1	720-90960-15
DG-AJ14S-3.5-4	720-90960-16
DG-AJ15S-0.5-1	720-90960-17
DG-AJ15S-3.5-4	720-90960-18
DG-AI16S-1-1.5	720-90960-19
DG-AI17S-0.5-1	720-90960-20
DG-AI17S-3.5-4	720-90960-21
DG-AH15S-0.5-1	720-90960-22
DG-AH16S-0.5-1	720-90960-23
DG-AH16S-3.5-4	720-90960-24
DUP-104	720-90960-25
DUP-103	720-90960-26
DUP-120	720-90960-27
DG-AG16S-0.5-1	720-90960-28
DG-AG16S-3.5-4	720-90960-29

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AV12S-0.5-1 Lab Sample ID: 720-90960-1

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 08:45

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	5.2	3.6	0.60	mg/Kg			10	6010B
7440-38-2	Arsenic	21	7.2	0.62	mg/Kg			10	6010B
7440-39-3	Barium	310	1.4	0.21	mg/Kg			4	6010B
7440-41-7	Beryllium	0.81	0.29	0.094	mg/Kg			4	6010B
7440-43-9	Cadmium	1.1	0.91	0.090	mg/Kg			10	6010B
7440-47-3	Chromium	730	3.6	0.38	mg/Kg			10	6010B
7440-48-4	Cobalt	19	1.4	0.14	mg/Kg			10	6010B
7440-50-8	Copper	180	11	5.2	mg/Kg			10	6010B
7439-92-1	Lead	230	3.6	0.76	mg/Kg			10	6010B
7439-98-7	Molybdenum	3.5	1.4	0.19	mg/Kg			4	6010B
7440-02-0	Nickel	55	3.6	0.37	mg/Kg		B	10	6010B
7782-49-2	Selenium	1.7	7.2	1.1	mg/Kg	J	B	10	6010B
7440-22-4	Silver	ND	1.8	0.37	mg/Kg			10	6010B
7440-28-0	Thallium	ND	3.6	1.1	mg/Kg		^	10	6010B
7440-62-2	Vanadium	55	3.6	0.49	mg/Kg			10	6010B
7440-66-6	Zinc	750	11	4.6	mg/Kg			10	6010B
7439-97-6	Mercury	0.60	0.017	0.0025	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AV12S-3.5-4 Lab Sample ID: 720-90960-2

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 08:45

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.81	1.4	0.23	mg/Kg	J		4	6010B
7440-38-2	Arsenic	9.9	2.8	0.24	mg/Kg			4	6010B
7440-39-3	Barium	100	1.4	0.20	mg/Kg			4	6010B
7440-41-7	Beryllium	0.40	0.28	0.091	mg/Kg			4	6010B
7440-43-9	Cadmium	0.095	0.35	0.035	mg/Kg	J		4	6010B
7440-47-3	Chromium	70	1.4	0.15	mg/Kg			4	6010B
7440-48-4	Cobalt	8.7	0.56	0.056	mg/Kg			4	6010B
7440-50-8	Copper	48	4.2	2.0	mg/Kg			4	6010B
7439-92-1	Lead	6.3	1.4	0.29	mg/Kg			4	6010B
7439-98-7	Molybdenum	ND	1.4	0.18	mg/Kg			4	6010B
7440-02-0	Nickel	48	1.4	0.14	mg/Kg		B	4	6010B
7782-49-2	Selenium	0.54	2.8	0.42	mg/Kg	J	B	4	6010B
7440-22-4	Silver	0.17	0.70	0.14	mg/Kg	J	B	4	6010B
7440-28-0	Thallium	ND	1.4	0.41	mg/Kg			4	6010B
7440-62-2	Vanadium	74	1.4	0.19	mg/Kg			4	6010B
7440-66-6	Zinc	48	4.2	1.8	mg/Kg			4	6010B
7439-97-6	Mercury	0.082	0.016	0.0023	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AV12S-19.5-20 Lab Sample ID: 720-90960-3

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 09:00

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.2	1.2	0.20	mg/Kg			4	6010B
7440-38-2	Arsenic	9.3	2.4	0.20	mg/Kg			4	6010B
7440-39-3	Barium	150	1.2	0.17	mg/Kg			4	6010B
7440-41-7	Beryllium	0.46	0.24	0.078	mg/Kg			4	6010B
7440-43-9	Cadmium	0.21	0.30	0.030	mg/Kg	J		4	6010B
7440-47-3	Chromium	51	1.2	0.13	mg/Kg			4	6010B
7440-48-4	Cobalt	22	0.48	0.048	mg/Kg			4	6010B
7440-50-8	Copper	35	3.6	1.7	mg/Kg			4	6010B
7439-92-1	Lead	6.7	1.2	0.25	mg/Kg			4	6010B
7439-98-7	Molybdenum	0.19	1.2	0.15	mg/Kg	J		4	6010B
7440-02-0	Nickel	48	1.2	0.12	mg/Kg		B	4	6010B
7782-49-2	Selenium	1.2	2.4	0.36	mg/Kg	J	B	4	6010B
7440-22-4	Silver	0.22	0.60	0.12	mg/Kg	J	B	4	6010B
7440-28-0	Thallium	ND	1.2	0.35	mg/Kg			4	6010B
7440-62-2	Vanadium	67	1.2	0.16	mg/Kg			4	6010B
7440-66-6	Zinc	87	3.6	1.5	mg/Kg			4	6010B
7439-97-6	Mercury	0.035	0.015	0.0022	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AP14S-0.5-1 Lab Sample ID: 720-90960-4

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 09:45

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.2	1.2	0.20	mg/Kg			4	6010B
7440-38-2	Arsenic	11	2.4	0.20	mg/Kg			4	6010B
7440-39-3	Barium	96	1.2	0.17	mg/Kg			4	6010B
7440-41-7	Beryllium	0.49	0.24	0.076	mg/Kg			4	6010B
7440-43-9	Cadmium	0.16	0.29	0.029	mg/Kg	J		4	6010B
7440-47-3	Chromium	50	1.2	0.12	mg/Kg			4	6010B
7440-48-4	Cobalt	9.8	0.47	0.047	mg/Kg			4	6010B
7440-50-8	Copper	27	3.5	1.7	mg/Kg			4	6010B
7439-92-1	Lead	42	1.2	0.25	mg/Kg			4	6010B
7439-98-7	Molybdenum	0.20	1.2	0.15	mg/Kg	J		4	6010B
7440-02-0	Nickel	33	1.2	0.12	mg/Kg		B	4	6010B
7782-49-2	Selenium	0.83	2.4	0.35	mg/Kg	J	B	4	6010B
7440-22-4	Silver	0.23	0.59	0.12	mg/Kg	J	B	4	6010B
7440-28-0	Thallium	ND	1.2	0.34	mg/Kg			4	6010B
7440-62-2	Vanadium	51	1.2	0.16	mg/Kg			4	6010B
7440-66-6	Zinc	62	3.5	1.5	mg/Kg			4	6010B
7439-97-6	Mercury	0.061	0.015	0.0021	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AP14S-3.5-4 Lab Sample ID: 720-90960-5

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 09:45

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.2	1.8	0.30	mg/Kg			4	6010B
7440-38-2	Arsenic	16	3.6	0.31	mg/Kg			4	6010B
7440-39-3	Barium	73	1.8	0.26	mg/Kg			4	6010B
7440-41-7	Beryllium	0.32	0.36	0.12	mg/Kg	J		4	6010B
7440-43-9	Cadmium	0.13	0.45	0.045	mg/Kg	J		4	6010B
7440-47-3	Chromium	42	1.8	0.19	mg/Kg			4	6010B
7440-48-4	Cobalt	5.5	0.72	0.072	mg/Kg			4	6010B
7440-50-8	Copper	69	5.4	2.6	mg/Kg			4	6010B
7439-92-1	Lead	12	1.8	0.38	mg/Kg			4	6010B
7439-98-7	Molybdenum	0.27	1.8	0.23	mg/Kg	J		4	6010B
7440-02-0	Nickel	24	1.8	0.18	mg/Kg		B	4	6010B
7782-49-2	Selenium	0.63	3.6	0.54	mg/Kg	J	B	4	6010B
7440-22-4	Silver	ND	0.90	0.18	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.8	0.52	mg/Kg			4	6010B
7440-62-2	Vanadium	59	1.8	0.25	mg/Kg			4	6010B
7440-66-6	Zinc	34	5.4	2.3	mg/Kg			4	6010B
7439-97-6	Mercury	0.098	0.016	0.0023	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AM14S-1-1.5 Lab Sample ID: 720-90960-6

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 10:05

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.50	1.5	0.25	mg/Kg	J		4	6010B
7440-38-2	Arsenic	5.4	3.0	0.26	mg/Kg			4	6010B
7440-39-3	Barium	47	1.5	0.21	mg/Kg			4	6010B
7440-41-7	Beryllium	ND	0.30	0.098	mg/Kg			4	6010B
7440-43-9	Cadmium	0.12	0.38	0.037	mg/Kg	J		4	6010B
7440-47-3	Chromium	77	1.5	0.16	mg/Kg			4	6010B
7440-48-4	Cobalt	9.3	0.60	0.060	mg/Kg			4	6010B
7440-50-8	Copper	32	4.5	2.1	mg/Kg			4	6010B
7439-92-1	Lead	12	1.5	0.32	mg/Kg			4	6010B
7439-98-7	Molybdenum	ND	1.5	0.19	mg/Kg			4	6010B
7440-02-0	Nickel	41	1.5	0.15	mg/Kg		B	4	6010B
7782-49-2	Selenium	ND	3.0	0.45	mg/Kg			4	6010B
7440-22-4	Silver	ND	0.75	0.15	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.5	0.44	mg/Kg			4	6010B
7440-62-2	Vanadium	60	1.5	0.20	mg/Kg			4	6010B
7440-66-6	Zinc	34	4.5	1.9	mg/Kg			4	6010B
7439-97-6	Mercury	0.021	0.016	0.0023	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AL14S-0.5-1 Lab Sample ID: 720-90960-7

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 10:15

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.2	1.6	0.27	mg/Kg	J		4	6010B
7440-38-2	Arsenic	13	3.2	0.27	mg/Kg			4	6010B
7440-39-3	Barium	61	1.6	0.23	mg/Kg			4	6010B
7440-41-7	Beryllium	0.86	0.32	0.10	mg/Kg			4	6010B
7440-43-9	Cadmium	0.19	0.40	0.040	mg/Kg	J		4	6010B
7440-47-3	Chromium	53	1.6	0.17	mg/Kg			4	6010B
7440-48-4	Cobalt	17	0.64	0.064	mg/Kg			4	6010B
7440-50-8	Copper	30	4.8	2.3	mg/Kg			4	6010B
7439-92-1	Lead	5.1	1.6	0.34	mg/Kg			4	6010B
7439-98-7	Molybdenum	4.3	1.6	0.20	mg/Kg			4	6010B
7440-02-0	Nickel	38	1.6	0.16	mg/Kg		B	4	6010B
7782-49-2	Selenium	1.3	3.2	0.48	mg/Kg	J	B	4	6010B
7440-22-4	Silver	0.48	0.80	0.16	mg/Kg	J	B	4	6010B
7440-28-0	Thallium	ND	1.6	0.46	mg/Kg			4	6010B
7440-62-2	Vanadium	57	1.6	0.22	mg/Kg			4	6010B
7440-66-6	Zinc	63	4.8	2.0	mg/Kg			4	6010B
7439-97-6	Mercury	0.032	0.015	0.0023	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AL14S-3.5-4 Lab Sample ID: 720-90960-8

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 10:15

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.2	1.4	0.24	mg/Kg	J		4	6010B
7440-38-2	Arsenic	3.7	2.9	0.24	mg/Kg			4	6010B
7440-39-3	Barium	80	1.4	0.20	mg/Kg			4	6010B
7440-41-7	Beryllium	0.10	0.29	0.093	mg/Kg	J		4	6010B
7440-43-9	Cadmium	0.14	0.36	0.035	mg/Kg	J		4	6010B
7440-47-3	Chromium	67	1.4	0.15	mg/Kg			4	6010B
7440-48-4	Cobalt	8.8	0.57	0.057	mg/Kg			4	6010B
7440-50-8	Copper	21	4.3	2.0	mg/Kg			4	6010B
7439-92-1	Lead	11	1.4	0.30	mg/Kg			4	6010B
7439-98-7	Molybdenum	ND	1.4	0.18	mg/Kg			4	6010B
7440-02-0	Nickel	36	1.4	0.15	mg/Kg		B	4	6010B
7782-49-2	Selenium	0.46	2.9	0.43	mg/Kg	J	B	4	6010B
7440-22-4	Silver	ND	0.71	0.14	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.4	0.41	mg/Kg			4	6010B
7440-62-2	Vanadium	62	1.4	0.19	mg/Kg			4	6010B
7440-66-6	Zinc	35	4.3	1.8	mg/Kg			4	6010B
7439-97-6	Mercury	0.11	0.014	0.0021	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AK14S-0.5-1 Lab Sample ID: 720-90960-9

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 10:50

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	3.7	1.4	0.23	mg/Kg			4	6010B
7440-38-2	Arsenic	19	2.8	0.23	mg/Kg			4	6010B
7440-39-3	Barium	130	1.4	0.20	mg/Kg			4	6010B
7440-41-7	Beryllium	ND	0.28	0.090	mg/Kg			4	6010B
7440-43-9	Cadmium	1.0	0.34	0.034	mg/Kg			4	6010B
7440-47-3	Chromium	390	1.4	0.15	mg/Kg			4	6010B
7440-48-4	Cobalt	8.8	0.55	0.055	mg/Kg			4	6010B
7440-50-8	Copper	130	4.1	2.0	mg/Kg			4	6010B
7439-92-1	Lead	230	1.4	0.29	mg/Kg			4	6010B
7439-98-7	Molybdenum	ND	1.4	0.18	mg/Kg			4	6010B
7440-02-0	Nickel	27	1.4	0.14	mg/Kg		B	4	6010B
7782-49-2	Selenium	ND	2.8	0.41	mg/Kg			4	6010B
7440-22-4	Silver	0.37	0.69	0.14	mg/Kg	J	B	4	6010B
7440-28-0	Thallium	ND	1.4	0.40	mg/Kg			4	6010B
7440-62-2	Vanadium	59	1.4	0.19	mg/Kg			4	6010B
7440-66-6	Zinc	330	4.1	1.8	mg/Kg			4	6010B
7439-97-6	Mercury	0.29	0.016	0.0024	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AK14S-3.5-4 Lab Sample ID: 720-90960-10

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 10:50

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.91	1.9	0.31	mg/Kg	J		4	6010B
7440-38-2	Arsenic	1.7	3.7	0.32	mg/Kg	J		4	6010B
7440-39-3	Barium	110	1.9	0.27	mg/Kg			4	6010B
7440-41-7	Beryllium	ND	0.37	0.12	mg/Kg			4	6010B
7440-43-9	Cadmium	0.24	0.47	0.046	mg/Kg	J		4	6010B
7440-47-3	Chromium	42	1.9	0.20	mg/Kg			4	6010B
7440-48-4	Cobalt	22	0.75	0.075	mg/Kg			4	6010B
7440-50-8	Copper	42	5.6	2.7	mg/Kg			4	6010B
7439-92-1	Lead	11	1.9	0.39	mg/Kg			4	6010B
7439-98-7	Molybdenum	ND	1.9	0.24	mg/Kg			4	6010B
7440-02-0	Nickel	35	1.9	0.19	mg/Kg		B	4	6010B
7782-49-2	Selenium	1.2	3.7	0.56	mg/Kg	J	B	4	6010B
7440-22-4	Silver	0.24	0.93	0.19	mg/Kg	J	B	4	6010B
7440-28-0	Thallium	ND	1.9	0.54	mg/Kg			4	6010B
7440-62-2	Vanadium	120	1.9	0.25	mg/Kg			4	6010B
7440-66-6	Zinc	65	5.6	2.4	mg/Kg			4	6010B
7439-97-6	Mercury	0.051	0.016	0.0023	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AK16S-0.5-1 Lab Sample ID: 720-90960-11

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 11:35

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	ND	1.8	0.29	mg/Kg			4	6010B
7440-38-2	Arsenic	4.5	3.5	0.30	mg/Kg			4	6010B
7440-39-3	Barium	63	1.8	0.25	mg/Kg			4	6010B
7440-41-7	Beryllium	ND	0.35	0.12	mg/Kg			4	6010B
7440-43-9	Cadmium	0.25	0.44	0.044	mg/Kg	J		4	6010B
7440-47-3	Chromium	63	1.8	0.19	mg/Kg			4	6010B
7440-48-4	Cobalt	7.0	0.71	0.071	mg/Kg			4	6010B
7440-50-8	Copper	21	5.3	2.5	mg/Kg			4	6010B
7439-92-1	Lead	50	1.8	0.37	mg/Kg			4	6010B
7439-98-7	Molybdenum	ND	1.8	0.23	mg/Kg			4	6010B
7440-02-0	Nickel	33	1.8	0.18	mg/Kg		B	4	6010B
7782-49-2	Selenium	ND	3.5	0.53	mg/Kg			4	6010B
7440-22-4	Silver	0.20	0.88	0.18	mg/Kg	J	B	4	6010B
7440-28-0	Thallium	ND	1.8	0.51	mg/Kg			4	6010B
7440-62-2	Vanadium	46	1.8	0.24	mg/Kg			4	6010B
7440-66-6	Zinc	91	5.3	2.2	mg/Kg			4	6010B
7439-97-6	Mercury	0.18	0.015	0.0023	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AK16S-3.5-4 Lab Sample ID: 720-90960-12

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 11:35

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.2	1.2	0.20	mg/Kg		F1	4	6010B
7440-38-2	Arsenic	11	2.5	0.21	mg/Kg			4	6010B
7440-39-3	Barium	130	1.2	0.18	mg/Kg		F2 B	4	6010B
7440-41-7	Beryllium	0.35	0.25	0.080	mg/Kg			4	6010B
7440-43-9	Cadmium	0.46	0.31	0.031	mg/Kg			4	6010B
7440-47-3	Chromium	48	1.2	0.13	mg/Kg			4	6010B
7440-48-4	Cobalt	13	0.49	0.049	mg/Kg			4	6010B
7440-50-8	Copper	25	3.7	1.8	mg/Kg			4	6010B
7439-92-1	Lead	49	1.2	0.26	mg/Kg		F2 F1 B ^	4	6010B
7439-98-7	Molybdenum	0.23	1.2	0.16	mg/Kg	J		4	6010B
7440-02-0	Nickel	30	1.2	0.13	mg/Kg			4	6010B
7782-49-2	Selenium	0.84	2.5	0.37	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.62	0.12	mg/Kg			4	6010B
7440-28-0	Thallium	0.46	1.2	0.36	mg/Kg	J		4	6010B
7440-62-2	Vanadium	49	1.2	0.17	mg/Kg			4	6010B
7440-66-6	Zinc	76	3.7	1.6	mg/Kg		F1	4	6010B
7439-97-6	Mercury	0.19	0.016	0.0024	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AL16S-0.5-1 Lab Sample ID: 720-90960-13

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 11:50

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	4.4	1.6	0.27	mg/Kg			4	6010B
7440-38-2	Arsenic	5.9	3.2	0.27	mg/Kg			4	6010B
7440-39-3	Barium	150	1.6	0.23	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.30	0.32	0.10	mg/Kg	J		4	6010B
7440-43-9	Cadmium	1.5	0.40	0.040	mg/Kg			4	6010B
7440-47-3	Chromium	160	1.6	0.17	mg/Kg			4	6010B
7440-48-4	Cobalt	9.8	0.64	0.064	mg/Kg			4	6010B
7440-50-8	Copper	49	4.8	2.3	mg/Kg			4	6010B
7439-92-1	Lead	390	1.6	0.34	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	4.9	1.6	0.20	mg/Kg			4	6010B
7440-02-0	Nickel	44	1.6	0.16	mg/Kg			4	6010B
7782-49-2	Selenium	1.2	3.2	0.48	mg/Kg	J		4	6010B
7440-22-4	Silver	3.4	0.80	0.16	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.6	0.46	mg/Kg			4	6010B
7440-62-2	Vanadium	44	1.6	0.22	mg/Kg			4	6010B
7440-66-6	Zinc	320	4.8	2.0	mg/Kg			4	6010B
7439-97-6	Mercury	0.14	0.017	0.0025	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AL15S-1-1.5 Lab Sample ID: 720-90960-14

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 11:55

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	3.6	1.1	0.19	mg/Kg			4	6010B
7440-38-2	Arsenic	5.0	2.2	0.19	mg/Kg			4	6010B
7440-39-3	Barium	170	1.1	0.16	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.32	0.22	0.073	mg/Kg			4	6010B
7440-43-9	Cadmium	0.63	0.28	0.028	mg/Kg			4	6010B
7440-47-3	Chromium	230	1.1	0.12	mg/Kg			4	6010B
7440-48-4	Cobalt	9.2	0.45	0.045	mg/Kg			4	6010B
7440-50-8	Copper	57	3.4	1.6	mg/Kg			4	6010B
7439-92-1	Lead	87	1.1	0.23	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	0.18	1.1	0.14	mg/Kg	J		4	6010B
7440-02-0	Nickel	36	1.1	0.11	mg/Kg			4	6010B
7782-49-2	Selenium	0.64	2.2	0.34	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.56	0.11	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.1	0.32	mg/Kg			4	6010B
7440-62-2	Vanadium	45	1.1	0.15	mg/Kg			4	6010B
7440-66-6	Zinc	250	3.4	1.4	mg/Kg			4	6010B
7439-97-6	Mercury	0.28	0.014	0.0021	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AJ14S-0.5-1 Lab Sample ID: 720-90960-15

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 13:15

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.5	1.4	0.24	mg/Kg			4	6010B
7440-38-2	Arsenic	5.4	2.9	0.24	mg/Kg			4	6010B
7440-39-3	Barium	92	1.4	0.20	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.41	0.29	0.094	mg/Kg			4	6010B
7440-43-9	Cadmium	0.40	0.36	0.036	mg/Kg			4	6010B
7440-47-3	Chromium	90	1.4	0.15	mg/Kg			4	6010B
7440-48-4	Cobalt	15	0.58	0.058	mg/Kg			4	6010B
7440-50-8	Copper	27	4.3	2.0	mg/Kg			4	6010B
7439-92-1	Lead	27	1.4	0.30	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.4	0.18	mg/Kg			4	6010B
7440-02-0	Nickel	100	1.4	0.15	mg/Kg			4	6010B
7782-49-2	Selenium	0.82	2.9	0.43	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.72	0.15	mg/Kg			4	6010B
7440-28-0	Thallium	0.63	1.4	0.42	mg/Kg	J		4	6010B
7440-62-2	Vanadium	69	1.4	0.20	mg/Kg			4	6010B
7440-66-6	Zinc	56	4.3	1.8	mg/Kg			4	6010B
7439-97-6	Mercury	0.052	0.014	0.0021	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AJ14S-3.5-4 Lab Sample ID: 720-90960-16

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 13:15

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.7	1.0	0.17	mg/Kg			4	6010B
7440-38-2	Arsenic	2.0	2.0	0.17	mg/Kg			4	6010B
7440-39-3	Barium	80	1.0	0.14	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.17	0.20	0.066	mg/Kg	J		4	6010B
7440-43-9	Cadmium	0.18	0.25	0.025	mg/Kg	J		4	6010B
7440-47-3	Chromium	56	1.0	0.11	mg/Kg			4	6010B
7440-48-4	Cobalt	6.1	0.40	0.040	mg/Kg			4	6010B
7440-50-8	Copper	7.6	3.0	1.4	mg/Kg			4	6010B
7439-92-1	Lead	5.6	1.0	0.21	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.0	0.13	mg/Kg			4	6010B
7440-02-0	Nickel	20	1.0	0.10	mg/Kg			4	6010B
7782-49-2	Selenium	0.98	2.0	0.30	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.51	0.10	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.0	0.29	mg/Kg			4	6010B
7440-62-2	Vanadium	54	1.0	0.14	mg/Kg			4	6010B
7440-66-6	Zinc	25	3.0	1.3	mg/Kg			4	6010B
7439-97-6	Mercury	0.014	0.016	0.0023	mg/Kg	J	B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AJ15S-0.5-1 Lab Sample ID: 720-90960-17

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 13:30

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	3.3	1.7	0.28	mg/Kg			4	6010B
7440-38-2	Arsenic	3.1	3.4	0.29	mg/Kg	J		4	6010B
7440-39-3	Barium	160	1.7	0.24	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.40	0.34	0.11	mg/Kg			4	6010B
7440-43-9	Cadmium	0.46	0.43	0.042	mg/Kg			4	6010B
7440-47-3	Chromium	41	1.7	0.18	mg/Kg			4	6010B
7440-48-4	Cobalt	22	0.68	0.068	mg/Kg			4	6010B
7440-50-8	Copper	48	5.1	2.4	mg/Kg			4	6010B
7439-92-1	Lead	6.3	1.7	0.36	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.7	0.22	mg/Kg			4	6010B
7440-02-0	Nickel	32	1.7	0.17	mg/Kg			4	6010B
7782-49-2	Selenium	2.1	3.4	0.51	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.85	0.17	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.7	0.50	mg/Kg			4	6010B
7440-62-2	Vanadium	120	1.7	0.23	mg/Kg			4	6010B
7440-66-6	Zinc	71	5.1	2.2	mg/Kg			4	6010B
7439-97-6	Mercury	0.057	0.015	0.0021	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AJ15S-3.5-4 Lab Sample ID: 720-90960-18

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 13:30

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.6	1.6	0.26	mg/Kg			4	6010B
7440-38-2	Arsenic	2.2	3.1	0.26	mg/Kg	J		4	6010B
7440-39-3	Barium	66	1.6	0.22	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.21	0.31	0.10	mg/Kg	J		4	6010B
7440-43-9	Cadmium	0.41	0.39	0.038	mg/Kg			4	6010B
7440-47-3	Chromium	88	1.6	0.16	mg/Kg			4	6010B
7440-48-4	Cobalt	6.3	0.62	0.062	mg/Kg			4	6010B
7440-50-8	Copper	13	4.7	2.2	mg/Kg			4	6010B
7439-92-1	Lead	2.6	1.6	0.33	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.6	0.20	mg/Kg			4	6010B
7440-02-0	Nickel	31	1.6	0.16	mg/Kg			4	6010B
7782-49-2	Selenium	1.1	3.1	0.47	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.78	0.16	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.6	0.45	mg/Kg			4	6010B
7440-62-2	Vanadium	64	1.6	0.21	mg/Kg			4	6010B
7440-66-6	Zinc	50	4.7	2.0	mg/Kg			4	6010B
7439-97-6	Mercury	0.068	0.014	0.0021	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AI16S-1-1.5 Lab Sample ID: 720-90960-19

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 13:50

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.4	1.3	0.21	mg/Kg			4	6010B
7440-38-2	Arsenic	0.89	2.6	0.22	mg/Kg	J		4	6010B
7440-39-3	Barium	370	1.3	0.18	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.49	0.26	0.084	mg/Kg			4	6010B
7440-43-9	Cadmium	0.43	0.32	0.032	mg/Kg			4	6010B
7440-47-3	Chromium	37	1.3	0.14	mg/Kg			4	6010B
7440-48-4	Cobalt	16	0.52	0.052	mg/Kg			4	6010B
7440-50-8	Copper	75	3.9	1.8	mg/Kg			4	6010B
7439-92-1	Lead	5.4	1.3	0.27	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.3	0.17	mg/Kg			4	6010B
7440-02-0	Nickel	31	1.3	0.13	mg/Kg			4	6010B
7782-49-2	Selenium	1.8	2.6	0.39	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.65	0.13	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.3	0.37	mg/Kg			4	6010B
7440-62-2	Vanadium	82	1.3	0.18	mg/Kg			4	6010B
7440-66-6	Zinc	57	3.9	1.6	mg/Kg			4	6010B
7439-97-6	Mercury	0.16	0.015	0.0022	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AI17S-0.5-1 Lab Sample ID: 720-90960-20

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 14:10

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	3.1	1.7	0.28	mg/Kg			4	6010B
7440-38-2	Arsenic	15	3.4	0.29	mg/Kg			4	6010B
7440-39-3	Barium	92	1.7	0.24	mg/Kg		B	4	6010B
7440-41-7	Beryllium	1.0	0.34	0.11	mg/Kg			4	6010B
7440-43-9	Cadmium	0.72	0.42	0.042	mg/Kg			4	6010B
7440-47-3	Chromium	48	1.7	0.18	mg/Kg			4	6010B
7440-48-4	Cobalt	18	0.68	0.068	mg/Kg			4	6010B
7440-50-8	Copper	49	5.1	2.4	mg/Kg			4	6010B
7439-92-1	Lead	25	1.7	0.36	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	0.26	1.7	0.22	mg/Kg	J		4	6010B
7440-02-0	Nickel	47	1.7	0.17	mg/Kg			4	6010B
7782-49-2	Selenium	2.3	3.4	0.51	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.85	0.17	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.7	0.49	mg/Kg			4	6010B
7440-62-2	Vanadium	59	1.7	0.23	mg/Kg			4	6010B
7440-66-6	Zinc	180	5.1	2.2	mg/Kg			4	6010B
7439-97-6	Mercury	0.029	0.015	0.0021	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AI17S-3.5-4 Lab Sample ID: 720-90960-21

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 14:10

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.4	1.7	0.29	mg/Kg			4	6010B
7440-38-2	Arsenic	9.1	3.4	0.29	mg/Kg			4	6010B
7440-39-3	Barium	26	1.7	0.24	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.94	0.34	0.11	mg/Kg			4	6010B
7440-43-9	Cadmium	0.94	0.43	0.043	mg/Kg			4	6010B
7440-47-3	Chromium	36	1.7	0.18	mg/Kg			4	6010B
7440-48-4	Cobalt	19	0.69	0.069	mg/Kg			4	6010B
7440-50-8	Copper	59	5.2	2.5	mg/Kg			4	6010B
7439-92-1	Lead	230	1.7	0.36	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.7	0.22	mg/Kg			4	6010B
7440-02-0	Nickel	37	1.7	0.18	mg/Kg			4	6010B
7782-49-2	Selenium	2.0	3.4	0.52	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.86	0.17	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.7	0.50	mg/Kg			4	6010B
7440-62-2	Vanadium	37	1.7	0.23	mg/Kg			4	6010B
7440-66-6	Zinc	1500	5.2	2.2	mg/Kg			4	6010B
7439-97-6	Mercury	0.19	0.015	0.0022	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AH15S-0.5-1 Lab Sample ID: 720-90960-22

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 14:30

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.8	1.5	0.25	mg/Kg			4	6010B
7440-38-2	Arsenic	8.6	3.1	0.26	mg/Kg			4	6010B
7440-39-3	Barium	170	1.5	0.22	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.78	0.31	0.099	mg/Kg			4	6010B
7440-43-9	Cadmium	0.44	0.38	0.038	mg/Kg			4	6010B
7440-47-3	Chromium	37	1.5	0.16	mg/Kg			4	6010B
7440-48-4	Cobalt	13	0.61	0.061	mg/Kg			4	6010B
7440-50-8	Copper	38	4.6	2.2	mg/Kg			4	6010B
7439-92-1	Lead	62	1.5	0.32	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.5	0.20	mg/Kg			4	6010B
7440-02-0	Nickel	35	1.5	0.16	mg/Kg			4	6010B
7782-49-2	Selenium	1.6	3.1	0.46	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.76	0.15	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.5	0.44	mg/Kg			4	6010B
7440-62-2	Vanadium	59	1.5	0.21	mg/Kg			4	6010B
7440-66-6	Zinc	73	4.6	1.9	mg/Kg			4	6010B
7439-97-6	Mercury	0.28	0.016	0.0024	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AH16S-0.5-1 Lab Sample ID: 720-90960-23

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 14:40

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.6	1.8	0.30	mg/Kg			4	6010B
7440-38-2	Arsenic	9.5	3.6	0.31	mg/Kg			4	6010B
7440-39-3	Barium	190	1.8	0.26	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.64	0.36	0.12	mg/Kg			4	6010B
7440-43-9	Cadmium	0.53	0.45	0.045	mg/Kg			4	6010B
7440-47-3	Chromium	47	1.8	0.19	mg/Kg			4	6010B
7440-48-4	Cobalt	13	0.73	0.073	mg/Kg			4	6010B
7440-50-8	Copper	78	5.5	2.6	mg/Kg			4	6010B
7439-92-1	Lead	110	1.8	0.38	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.8	0.23	mg/Kg			4	6010B
7440-02-0	Nickel	43	1.8	0.19	mg/Kg			4	6010B
7782-49-2	Selenium	2.3	3.6	0.55	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.91	0.18	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.8	0.53	mg/Kg			4	6010B
7440-62-2	Vanadium	56	1.8	0.25	mg/Kg			4	6010B
7440-66-6	Zinc	130	5.5	2.3	mg/Kg			4	6010B
7439-97-6	Mercury	0.19	0.015	0.0022	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AH16S-3.5-4 Lab Sample ID: 720-90960-24

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 14:40

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.8	1.1	0.18	mg/Kg			4	6010B
7440-38-2	Arsenic	5.8	2.2	0.19	mg/Kg			4	6010B
7440-39-3	Barium	70	1.1	0.16	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.66	0.22	0.072	mg/Kg			4	6010B
7440-43-9	Cadmium	0.20	0.28	0.027	mg/Kg	J		4	6010B
7440-47-3	Chromium	37	1.1	0.12	mg/Kg			4	6010B
7440-48-4	Cobalt	7.5	0.44	0.044	mg/Kg			4	6010B
7440-50-8	Copper	26	3.3	1.6	mg/Kg			4	6010B
7439-92-1	Lead	32	1.1	0.23	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.1	0.14	mg/Kg			4	6010B
7440-02-0	Nickel	21	1.1	0.11	mg/Kg			4	6010B
7782-49-2	Selenium	1.4	2.2	0.33	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.55	0.11	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.1	0.32	mg/Kg			4	6010B
7440-62-2	Vanadium	50	1.1	0.15	mg/Kg			4	6010B
7440-66-6	Zinc	95	3.3	1.4	mg/Kg			4	6010B
7439-97-6	Mercury	0.075	0.015	0.0022	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP-104 Lab Sample ID: 720-90960-25

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 00:00

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.9	1.2	0.20	mg/Kg			4	6010B
7440-38-2	Arsenic	7.7	2.4	0.21	mg/Kg			4	6010B
7440-39-3	Barium	51	1.2	0.17	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.92	0.24	0.079	mg/Kg			4	6010B
7440-43-9	Cadmium	0.35	0.30	0.030	mg/Kg			4	6010B
7440-47-3	Chromium	39	1.2	0.13	mg/Kg			4	6010B
7440-48-4	Cobalt	14	0.49	0.049	mg/Kg			4	6010B
7440-50-8	Copper	38	3.7	1.7	mg/Kg			4	6010B
7439-92-1	Lead	4.7	1.2	0.26	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.2	0.16	mg/Kg			4	6010B
7440-02-0	Nickel	29	1.2	0.12	mg/Kg			4	6010B
7782-49-2	Selenium	2.0	2.4	0.37	mg/Kg	J		4	6010B
7440-22-4	Silver	0.18	0.61	0.12	mg/Kg	J		4	6010B
7440-28-0	Thallium	0.69	1.2	0.35	mg/Kg	J		4	6010B
7440-62-2	Vanadium	55	1.2	0.17	mg/Kg			4	6010B
7440-66-6	Zinc	55	3.7	1.5	mg/Kg			4	6010B
7439-97-6	Mercury	0.025	0.016	0.0023	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP-103 Lab Sample ID: 720-90960-26

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 00:00

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	4.1	1.5	0.26	mg/Kg			4	6010B
7440-38-2	Arsenic	17	3.1	0.26	mg/Kg			4	6010B
7440-39-3	Barium	99	1.5	0.22	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.85	0.31	0.10	mg/Kg			4	6010B
7440-43-9	Cadmium	0.86	0.38	0.038	mg/Kg			4	6010B
7440-47-3	Chromium	180	1.5	0.16	mg/Kg			4	6010B
7440-48-4	Cobalt	14	0.62	0.062	mg/Kg			4	6010B
7440-50-8	Copper	94	4.6	2.2	mg/Kg			4	6010B
7439-92-1	Lead	76	1.5	0.32	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	0.40	1.5	0.20	mg/Kg	J		4	6010B
7440-02-0	Nickel	33	1.5	0.16	mg/Kg			4	6010B
7782-49-2	Selenium	2.4	3.1	0.46	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.77	0.16	mg/Kg			4	6010B
7440-28-0	Thallium	0.75	1.5	0.45	mg/Kg	J		4	6010B
7440-62-2	Vanadium	63	1.5	0.21	mg/Kg			4	6010B
7440-66-6	Zinc	210	4.6	2.0	mg/Kg			4	6010B
7439-97-6	Mercury	0.47	0.017	0.0025	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP-120 Lab Sample ID: 720-90960-27

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 00:00

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	3.3	1.2	0.20	mg/Kg			4	6010B
7440-38-2	Arsenic	9.8	2.5	0.21	mg/Kg			4	6010B
7440-39-3	Barium	130	1.2	0.17	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.50	0.25	0.080	mg/Kg			4	6010B
7440-43-9	Cadmium	0.53	0.31	0.030	mg/Kg			4	6010B
7440-47-3	Chromium	52	1.2	0.13	mg/Kg			4	6010B
7440-48-4	Cobalt	16	0.49	0.049	mg/Kg			4	6010B
7440-50-8	Copper	45	3.7	1.7	mg/Kg			4	6010B
7439-92-1	Lead	66	1.2	0.26	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	0.16	1.2	0.16	mg/Kg	J		4	6010B
7440-02-0	Nickel	32	1.2	0.13	mg/Kg			4	6010B
7782-49-2	Selenium	1.6	2.5	0.37	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.61	0.12	mg/Kg			4	6010B
7440-28-0	Thallium	0.62	1.2	0.36	mg/Kg	J		4	6010B
7440-62-2	Vanadium	53	1.2	0.17	mg/Kg			4	6010B
7440-66-6	Zinc	110	3.7	1.6	mg/Kg			4	6010B
7439-97-6	Mercury	0.16	0.014	0.0021	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AG16S-0.5-1 Lab Sample ID: 720-90960-28

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 15:10

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.1	1.3	0.21	mg/Kg			4	6010B
7440-38-2	Arsenic	6.5	2.6	0.22	mg/Kg			4	6010B
7440-39-3	Barium	110	1.3	0.18	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.89	0.26	0.083	mg/Kg			4	6010B
7440-43-9	Cadmium	0.35	0.32	0.032	mg/Kg			4	6010B
7440-47-3	Chromium	37	1.3	0.14	mg/Kg			4	6010B
7440-48-4	Cobalt	15	0.51	0.051	mg/Kg			4	6010B
7440-50-8	Copper	32	3.8	1.8	mg/Kg			4	6010B
7439-92-1	Lead	18	1.3	0.27	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	0.20	1.3	0.16	mg/Kg	J		4	6010B
7440-02-0	Nickel	35	1.3	0.13	mg/Kg			4	6010B
7782-49-2	Selenium	2.2	2.6	0.38	mg/Kg	J		4	6010B
7440-22-4	Silver	0.17	0.64	0.13	mg/Kg	J		4	6010B
7440-28-0	Thallium	1.2	1.3	0.37	mg/Kg	J		4	6010B
7440-62-2	Vanadium	54	1.3	0.17	mg/Kg			4	6010B
7440-66-6	Zinc	58	3.8	1.6	mg/Kg			4	6010B
7439-97-6	Mercury	0.065	0.016	0.0024	mg/Kg		B	1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DG-AG16S-3.5-4 Lab Sample ID: 720-90960-29

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG ID.:

Matrix: Solid Date Sampled: 01/22/2019 15:10

Reporting Basis: WET Date Received: 01/22/2019 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.1	1.4	0.24	mg/Kg	J		4	6010B
7440-38-2	Arsenic	6.6	2.9	0.24	mg/Kg			4	6010B
7440-39-3	Barium	56	1.4	0.20	mg/Kg		B	4	6010B
7440-41-7	Beryllium	0.21	0.29	0.094	mg/Kg	J		4	6010B
7440-43-9	Cadmium	0.22	0.36	0.036	mg/Kg	J		4	6010B
7440-47-3	Chromium	38	1.4	0.15	mg/Kg			4	6010B
7440-48-4	Cobalt	8.2	0.58	0.058	mg/Kg			4	6010B
7440-50-8	Copper	16	4.3	2.0	mg/Kg			4	6010B
7439-92-1	Lead	20	1.4	0.30	mg/Kg		B	4	6010B
7439-98-7	Molybdenum	ND	1.4	0.18	mg/Kg			4	6010B
7440-02-0	Nickel	32	1.4	0.15	mg/Kg			4	6010B
7782-49-2	Selenium	0.82	2.9	0.43	mg/Kg	J		4	6010B
7440-22-4	Silver	ND	0.72	0.15	mg/Kg			4	6010B
7440-28-0	Thallium	ND	1.4	0.42	mg/Kg			4	6010B
7440-62-2	Vanadium	35	1.4	0.20	mg/Kg			4	6010B
7440-66-6	Zinc	33	4.3	1.8	mg/Kg			4	6010B
7439-97-6	Mercury	0.18	0.015	0.0022	mg/Kg		B	1	7471A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICV Source: ICP ICV_00287 Concentration Units: mg/L

CCV Source: ICP ICV_00287

Analyte	ICV 720-259583/4 01/31/2019 09:01				CCV 720-259583/11 01/31/2019 14:08				CCV 720-259583/20 01/31/2019 15:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	0.519		0.500	104	0.489		0.500	98	0.492		0.500	98
Arsenic	0.515		0.500	103	0.488		0.500	98	0.493		0.500	99
Barium	0.505		0.500	101	0.459		0.500	92	0.470		0.500	94
Beryllium	0.529		0.500	106	0.453		0.500	91	0.469		0.500	94
Cadmium	0.518		0.500	104	0.490		0.500	98	0.495		0.500	99
Chromium	0.520		0.500	104	0.486		0.500	97	0.496		0.500	99
Cobalt	0.520		0.500	104	0.491		0.500	98	0.495		0.500	99
Copper	0.512		0.500	102	0.480		0.500	96	0.495		0.500	99
Lead	0.518		0.500	104	0.513		0.500	103	0.508		0.500	102
Molybdenum	0.514		0.500	103	0.488		0.500	98	0.496		0.500	99
Nickel	0.515		0.500	103	0.507		0.500	101	0.506		0.500	101
Selenium	0.513		0.500	103	0.491		0.500	98	0.494		0.500	99
Silver	0.250		0.250	100	0.243		0.250	97	0.251		0.250	100
Thallium	0.540		0.500	108	0.506		0.500	101	0.513		0.500	103
Vanadium	0.512		0.500	102	0.490		0.500	98	0.500		0.500	100
Zinc	0.515		0.500	103	0.504		0.500	101	0.501		0.500	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICV Source: ICP ICV_00287 Concentration Units: mg/L

CCV Source: ICP ICV_00287

Analyte	ICV 720-259616/9 01/31/2019 17:24				CCV 720-259616/12 01/31/2019 17:39				CCV 720-259616/24 01/31/2019 18:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	0.519		0.500	104	0.518		0.500	104	0.509		0.500	102
Arsenic	0.517		0.500	103	0.516		0.500	103	0.511		0.500	102
Barium	0.516		0.500	103	0.507		0.500	101	0.496		0.500	99
Beryllium	0.525		0.500	105	0.523		0.500	105	0.525		0.500	105
Cadmium	0.521		0.500	104	0.518		0.500	104	0.507		0.500	101
Chromium	0.522		0.500	104	0.521		0.500	104	0.521		0.500	104
Cobalt	0.524		0.500	105	0.521		0.500	104	0.511		0.500	102
Copper	0.518		0.500	104	0.516		0.500	103	0.520		0.500	104
Lead	0.524		0.500	105	0.521		0.500	104	0.509		0.500	102
Molybdenum	0.519		0.500	104	0.516		0.500	103	0.512		0.500	102
Nickel	0.522		0.500	104	0.520		0.500	104	0.507		0.500	101
Selenium	0.521		0.500	104	0.518		0.500	104	0.507		0.500	101
Silver	0.257		0.250	103	0.257		0.250	103	0.255		0.250	102
Thallium	0.531		0.500	106	0.529		0.500	106	0.510		0.500	102
Vanadium	0.517		0.500	103	0.516		0.500	103	0.513		0.500	103
Zinc	0.524		0.500	105	0.521		0.500	104	0.512		0.500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICV Source: ICP ICV_00287 Concentration Units: mg/L

CCV Source: ICP ICV_00287

Analyte	CCV 720-259616/36 01/31/2019 19:39				CCV 720-259616/44 01/31/2019 20:36							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	0.521		0.500	104	0.518		0.500	104				
Arsenic	0.520		0.500	104	0.517		0.500	103				
Barium	0.498		0.500	100	0.489		0.500	98				
Beryllium	0.532		0.500	106	0.523		0.500	105				
Cadmium	0.527		0.500	105	0.521		0.500	104				
Chromium	0.530		0.500	106	0.527		0.500	105				
Cobalt	0.530		0.500	106	0.525		0.500	105				
Copper	0.522		0.500	104	0.523		0.500	105				
Lead	0.526		0.500	105	0.519		0.500	104				
Molybdenum	0.520		0.500	104	0.518		0.500	104				
Nickel	0.523		0.500	105	0.513		0.500	103				
Selenium	0.517		0.500	103	0.515		0.500	103				
Silver	0.253		0.250	101	0.256		0.250	102				
Thallium	0.522		0.500	104	0.529		0.500	106				
Vanadium	0.519		0.500	104	0.516		0.500	103				
Zinc	0.528		0.500	106	0.518		0.500	104				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICV Source: ICP ICV_00288 Concentration Units: mg/L

CCV Source: ICP ICV_00288

Analyte	ICV 720-259951/4 02/06/2019 14:33				CCV 720-259951/11 02/06/2019 22:43				CCV 720-259951/19 02/06/2019 23:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	0.497		0.500	99	0.509		0.500	102	0.510		0.500	102
Arsenic	0.499		0.500	100	0.491		0.500	98	0.488		0.500	98
Barium	0.505		0.500	101	0.493		0.500	99	0.484		0.500	97
Beryllium	0.483		0.500	97	0.498		0.500	100	0.494		0.500	99
Cadmium	0.504		0.500	101	0.527		0.500	105	0.524		0.500	105
Chromium	0.501		0.500	100	0.521		0.500	104	0.512		0.500	102
Cobalt	0.503		0.500	101	0.538		0.500	108	0.536		0.500	107
Copper	0.510		0.500	102	0.517		0.500	103	0.508		0.500	102
Lead	0.512		0.500	102	0.525		0.500	105	0.520		0.500	104
Molybdenum	0.504		0.500	101	0.500		0.500	100	0.496		0.500	99
Nickel	0.521		0.500	104	0.502		0.500	100	0.497		0.500	99
Selenium	0.514		0.500	103	0.501		0.500	100	0.496		0.500	99
Silver	0.257		0.250	103	0.261		0.250	104	0.256		0.250	102
Vanadium	0.500		0.500	100	0.524		0.500	105	0.516		0.500	103
Zinc	0.512		0.500	102	0.519		0.500	104	0.517		0.500	103
Thallium	0.503		0.500	101	0.516		0.500	103	0.511		0.500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICV Source: ICP ICV_00288 Concentration Units: mg/L

CCV Source: ICP ICV_00288

Analyte	CCV 720-259951/31 02/07/2019 00:39				CCV 720-259951/36 02/07/2019 01:03							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	0.509		0.500	102	0.508		0.500	102				
Arsenic	0.488		0.500	98	0.491		0.500	98				
Barium	0.486		0.500	97	0.472		0.500	94				
Beryllium	0.488		0.500	98	0.483		0.500	97				
Cadmium	0.523		0.500	105	0.515		0.500	103				
Chromium	0.516		0.500	103	0.511		0.500	102				
Cobalt	0.536		0.500	107	0.527		0.500	105				
Copper	0.513		0.500	103	0.509		0.500	102				
Lead	0.520		0.500	104	0.513		0.500	103				
Molybdenum	0.498		0.500	100	0.498		0.500	100				
Nickel	0.499		0.500	100	0.491		0.500	98				
Selenium	0.496		0.500	99	0.485		0.500	97				
Silver	0.260		0.250	104	0.259		0.250	104				
Vanadium	0.521		0.500	104	0.516		0.500	103				
Zinc	0.514		0.500	103	0.507		0.500	101				
Thallium	0.514		0.500	103	0.511		0.500	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICV Source: ICP ICV_00288 Concentration Units: mg/L

CCV Source: ICP ICV_00288

Analyte	ICV 720-261958/4 02/06/2019 14:33				CCV 720-261958/11 02/06/2019 22:43				CCV 720-261958/19 02/06/2019 23:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Thallium	0.506		0.500	101	0.511		0.500	102	0.508		0.500	102
Antimony	0.497		0.500	99	0.509		0.500	102	0.510		0.500	102
Arsenic	0.499		0.500	100	0.491		0.500	98	0.488		0.500	98
Barium	0.505		0.500	101	0.493		0.500	99	0.484		0.500	97
Beryllium	0.483		0.500	97	0.498		0.500	100	0.494		0.500	99
Cadmium	0.504		0.500	101	0.527		0.500	105	0.524		0.500	105
Chromium	0.501		0.500	100	0.521		0.500	104	0.512		0.500	102
Cobalt	0.503		0.500	101	0.538		0.500	108	0.536		0.500	107
Copper	0.510		0.500	102	0.517		0.500	103	0.508		0.500	102
Lead	0.512		0.500	102	0.525		0.500	105	0.520		0.500	104
Molybdenum	0.504		0.500	101	0.500		0.500	100	0.496		0.500	99
Nickel	0.521		0.500	104	0.502		0.500	100	0.497		0.500	99
Selenium	0.514		0.500	103	0.501		0.500	100	0.496		0.500	99
Silver	0.257		0.250	103	0.261		0.250	104	0.256		0.250	102
Vanadium	0.500		0.500	100	0.524		0.500	105	0.516		0.500	103
Zinc	0.512		0.500	102	0.519		0.500	104	0.517		0.500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICV Source: ICP ICV_00288 Concentration Units: mg/L

CCV Source: ICP ICV_00288

Analyte	CCV 720-261958/31 02/07/2019 00:39				CCV 720-261958/34 02/07/2019 01:03							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Thallium	0.510		0.500	102	0.509		0.500	102				
Antimony	0.509		0.500	102	0.508		0.500	102				
Arsenic	0.488		0.500	98	0.491		0.500	98				
Barium	0.486		0.500	97	0.472		0.500	94				
Beryllium	0.488		0.500	98	0.483		0.500	97				
Cadmium	0.523		0.500	105	0.515		0.500	103				
Chromium	0.516		0.500	103	0.511		0.500	102				
Cobalt	0.536		0.500	107	0.527		0.500	105				
Copper	0.513		0.500	103	0.509		0.500	102				
Lead	0.520		0.500	104	0.513		0.500	103				
Molybdenum	0.498		0.500	100	0.498		0.500	100				
Nickel	0.499		0.500	100	0.491		0.500	98				
Selenium	0.496		0.500	99	0.485		0.500	97				
Silver	0.260		0.250	104	0.259		0.250	104				
Vanadium	0.521		0.500	104	0.516		0.500	103				
Zinc	0.514		0.500	103	0.507		0.500	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Method: 6010B Instrument ID: Thermo ICP

Lab Sample ID: CRI 720-259656/6 Concentration Units: mg/L

CRQL Check Standard Source: CRI_ICP_00138

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	0.0200	0.0217		109	50-150
Arsenic	0.0100	0.00970	J	97	50-150
Barium	0.0100	0.00980	J	98	50-150
Beryllium	0.00400	0.00420		105	50-150
Cadmium	0.00400	0.00420		105	50-150
Chromium	0.0200	0.0208		104	50-150
Cobalt	0.00400	0.00450		113	50-150
Copper	0.0400	0.0420		105	50-150
Lead	0.0100	0.0124		124	50-150
Molybdenum	0.0200	0.0212		106	50-150
Nickel	0.0200	0.0204		102	50-150
Selenium	0.0400	0.0391		98	50-150
Silver	0.0100	0.0107		107	50-150
Thallium	0.0200	0.0208		104	50-150
Vanadium	0.0200	0.0213		107	50-150
Zinc	0.0400	0.0412		103	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Method: 6010B Instrument ID: Thermo ICP2

Lab Sample ID: CRI 720-259583/6 Concentration Units: mg/L

CRQL Check Standard Source: CRI_ICP_00138

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	0.0200	0.0210		105	50-150
Arsenic	0.0100	0.0109		109	50-150
Barium	0.0100	0.0147		147	50-150
Beryllium	0.00400	0.00510		128	50-150
Cadmium	0.00400	0.00550		138	50-150
Chromium	0.0200	0.0245		123	50-150
Cobalt	0.00400	0.00530		133	50-150
Copper	0.0400	0.0474		119	50-150
Lead	0.0100	0.0126		126	50-150
Molybdenum	0.0200	0.0237		119	50-150
Nickel	0.0200	0.0226		113	50-150
Selenium	0.0400	0.0442		111	50-150
Silver	0.0100	0.0120		120	50-150
Thallium	0.0200	0.0224		112	50-150
Vanadium	0.0200	0.0242		121	50-150
Zinc	0.0400	0.0421		105	50-150

Lab Sample ID: CRI 720-259616/11 Concentration Units: mg/L

CRQL Check Standard Source: CRI_ICP_00138

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	0.0200	0.0184		92	50-150
Arsenic	0.0100	0.0114		114	50-150
Barium	0.0100	0.0113		113	50-150
Beryllium	0.00400	0.00410		103	50-150
Cadmium	0.00400	0.00430		108	50-150
Chromium	0.0200	0.0202		101	50-150
Cobalt	0.00400	0.00460		115	50-150
Copper	0.0400	0.0410		103	50-150
Lead	0.0100	0.0106		106	50-150
Molybdenum	0.0200	0.0204		102	50-150
Nickel	0.0200	0.0205		103	50-150
Selenium	0.0400	0.0381		95	50-150
Silver	0.0100	0.0124		124	50-150
Thallium	0.0200	0.0180		90	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Method: 6010B Instrument ID: Thermo ICP2

Lab Sample ID: CRI 720-259616/11 Concentration Units: mg/L

CRQL Check Standard Source: CRI_ICP_00138

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Vanadium	0.0200	0.0206		103	50-150
Zinc	0.0400	0.0388		97	50-150

Lab Sample ID: CRI 720-259951/6 Concentration Units: mg/L

CRQL Check Standard Source: CRI_ICP_00139

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	0.0200	0.0230		115	50-150
Arsenic	0.0100	0.0114		114	50-150
Barium	0.0100	0.00910	J	91	50-150
Beryllium	0.00400	0.00520		130	50-150
Cadmium	0.00400	0.00490		123	50-150
Chromium	0.0200	0.0232		116	50-150
Cobalt	0.00400	0.00500		125	50-150
Copper	0.0400	0.0459		115	50-150
Lead	0.0100	0.0122		122	50-150
Molybdenum	0.0200	0.0220		110	50-150
Nickel	0.0200	0.0215		108	50-150
Selenium	0.0400	0.0432		108	50-150
Silver	0.0100	0.0120		120	50-150
Thallium	0.0200	0.0221		111	50-150
Vanadium	0.0200	0.0234		117	50-150
Zinc	0.0400	0.0429		107	50-150

Lab Sample ID: CRI 720-261958/6 Concentration Units: mg/L

CRQL Check Standard Source: CRI_ICP_00139

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	0.0200	0.0230		115	50-150
Arsenic	0.0100	0.0114		114	50-150
Barium	0.0100	0.00910	J	91	50-150
Beryllium	0.00400	0.00520		130	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Method: 6010B Instrument ID: Thermo ICP2

Lab Sample ID: CRI 720-261958/6 Concentration Units: mg/L

CRQL Check Standard Source: CRI_ICP_00139

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cadmium	0.00400	0.00490		123	50-150
Chromium	0.0200	0.0232		116	50-150
Cobalt	0.00400	0.00500		125	50-150
Copper	0.0400	0.0459		115	50-150
Lead	0.0100	0.0122		122	50-150
Molybdenum	0.0200	0.0220		110	50-150
Nickel	0.0200	0.0215		108	50-150
Selenium	0.0400	0.0432		108	50-150
Silver	0.0100	0.0120		120	50-150
Thallium	0.0200	0.0213		107	50-150
Vanadium	0.0200	0.0234		117	50-150
Zinc	0.0400	0.0429		107	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 720-259656/5 02/01/2019 09:05							
		Found	C	Found	C	Found	C	Found	C
Antimony	0.010	ND							
Arsenic	0.010	ND							
Barium	0.010	ND							
Beryllium	0.0020	ND							
Cadmium	0.0025	ND							
Chromium	0.010	ND							
Cobalt	0.0020	ND							
Copper	0.020	ND							
Lead	0.0050	0.00340	J						
Molybdenum	0.010	ND							
Nickel	0.010	ND							
Selenium	0.020	ND							
Silver	0.0050	ND							
Thallium	0.010	0.00500	J						
Vanadium	0.010	ND							
Zinc	0.020	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 720-259583/5 01/31/2019 09:05		CCB 720-259583/12 01/31/2019 14:12		CCB 720-259583/21 01/31/2019 15:10			
		Found	C	Found	C	Found	C	Found	C
Antimony	0.010	ND		ND		ND			
Arsenic	0.010	ND		ND		ND			
Barium	0.010	0.00250	J	0.00480	J	0.00380	J		
Beryllium	0.0020	ND		0.000800	J	0.00110	J		
Cadmium	0.0025	0.00140	J	ND		ND			
Chromium	0.010	0.00200	J	ND		ND			
Cobalt	0.0020	ND		ND		0.00130	J		
Copper	0.020	0.00150	J	0.00260	J	0.00150	J		
Lead	0.0050	0.00230	J	0.00780		0.00240	J		
Molybdenum	0.010	ND		ND		ND			
Nickel	0.010	0.000800	J	0.000800	J	0.000900	J		
Selenium	0.020	ND		ND		ND			
Silver	0.0050	ND		ND		ND			
Thallium	0.010	0.00950	J	0.00670	J	0.00530	J		
Vanadium	0.010	0.00150	J	0.00120	J	0.00130	J		
Zinc	0.020	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 720-259616/10 01/31/2019 17:29		CCB 720-259616/13 01/31/2019 17:43		CCB 720-259616/25 01/31/2019 18:46		CCB 720-259616/37 01/31/2019 19:44	
		Found	C	Found	C	Found	C	Found	C
Antimony	0.010	ND		ND		ND		ND	
Arsenic	0.010	ND		ND		ND		ND	
Barium	0.010	ND		ND		0.00530	J	0.00300	J
Beryllium	0.0020	0.00170	J	ND		0.00120	J	0.000400	J
Cadmium	0.0025	ND		ND		ND		ND	
Chromium	0.010	ND		ND		ND		ND	
Cobalt	0.0020	ND		ND		ND		ND	
Copper	0.020	ND		ND		ND		ND	
Lead	0.0050	ND		ND		0.00260	J	ND	
Molybdenum	0.010	ND		ND		ND		ND	
Nickel	0.010	0.00190	J	0.000900	J	0.00240	J	0.00180	J
Selenium	0.020	ND		ND		ND		ND	
Silver	0.0050	0.00260	J	ND		ND		ND	
Thallium	0.010	ND		ND		ND		ND	
Vanadium	0.010	ND		0.000900	J	0.00100	J	0.00160	J
Zinc	0.020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 720-259616/45 01/31/2019 20:41							
		Found	C	Found	C	Found	C	Found	C
Antimony	0.010	ND							
Arsenic	0.010	ND							
Barium	0.010	0.00200	J						
Beryllium	0.0020	0.000500	J						
Cadmium	0.0025	ND							
Chromium	0.010	ND							
Cobalt	0.0020	ND							
Copper	0.020	ND							
Lead	0.0050	ND							
Molybdenum	0.010	ND							
Nickel	0.010	0.00140	J						
Selenium	0.020	ND							
Silver	0.0050	0.00130	J						
Thallium	0.010	ND							
Vanadium	0.010	0.00100	J						
Zinc	0.020	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 720-259951/5 02/06/2019 14:38		CCB 720-259951/12 02/06/2019 22:48		CCB 720-259951/20 02/06/2019 23:46		CCB 720-259951/32 02/07/2019 00:44	
		Found	C	Found	C	Found	C	Found	C
Antimony	0.010	ND		ND		ND		ND	
Arsenic	0.010	ND		ND		0.00260	J	ND	
Barium	0.010	0.00390	J	ND		ND		ND	
Beryllium	0.0020	0.00160	J	0.000400	J	ND		0.000700	J
Cadmium	0.0025	ND		ND		ND		ND	
Chromium	0.010	ND		ND		ND		ND	
Cobalt	0.0020	0.00120	J	ND		ND		ND	
Copper	0.020	0.00270	J	0.00170	J	0.00290	J	0.00180	J
Lead	0.0050	ND		ND		0.00230	J	0.00350	J
Molybdenum	0.010	ND		ND		ND		ND	
Nickel	0.010	ND		ND		0.000800	J	0.00100	J
Selenium	0.020	ND		ND		ND		ND	
Silver	0.0050	ND		ND		ND		ND	
Vanadium	0.010	0.00170	J	0.00100	J	0.00120	J	0.00160	J
Zinc	0.020	ND		ND		ND		ND	
Thallium	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 720-259951/37 02/07/2019 01:08							
		Found	C	Found	C	Found	C	Found	C
Antimony	0.010	ND							
Arsenic	0.010	ND							
Barium	0.010	ND							
Beryllium	0.0020	0.00120	J						
Cadmium	0.0025	ND							
Chromium	0.010	ND							
Cobalt	0.0020	ND							
Copper	0.020	0.00190	J						
Lead	0.0050	ND							
Molybdenum	0.010	ND							
Nickel	0.010	ND							
Selenium	0.020	ND							
Silver	0.0050	ND							
Vanadium	0.010	0.00100	J						
Zinc	0.020	ND							
Thallium	0.010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 720-261958/5 02/06/2019 14:38		CCB 720-261958/12 02/06/2019 22:48		CCB 720-261958/20 02/06/2019 23:46		CCB 720-261958/32 02/07/2019 00:44	
		Found	C	Found	C	Found	C	Found	C
Thallium	0.010	ND		ND		ND		ND	
Antimony	0.010	ND		ND		ND		ND	
Arsenic	0.010	ND		ND		0.00260	J	ND	
Barium	0.010	0.00390	J	ND		ND		ND	
Beryllium	0.0020	0.00160	J	0.000400	J	ND		0.000700	J
Cadmium	0.0025	ND		ND		ND		ND	
Chromium	0.010	ND		ND		ND		ND	
Cobalt	0.0020	0.00120	J	ND		ND		ND	
Copper	0.020	0.00270	J	0.00170	J	0.00290	J	0.00180	J
Lead	0.0050	ND		ND		0.00230	J	0.00350	J
Molybdenum	0.010	ND		ND		ND		ND	
Nickel	0.010	ND		ND		0.000800	J	0.00100	J
Selenium	0.020	ND		ND		ND		ND	
Silver	0.0050	ND		ND		ND		ND	
Vanadium	0.010	0.00170	J	0.00100	J	0.00120	J	0.00160	J
Zinc	0.020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 720-261958/35 02/07/2019 01:08							
		Found	C	Found	C	Found	C	Found	C
Thallium	0.010	ND							
Antimony	0.010	ND							
Arsenic	0.010	ND							
Barium	0.010	ND							
Beryllium	0.0020	0.00120	J						
Cadmium	0.0025	ND							
Chromium	0.010	ND							
Cobalt	0.0020	ND							
Copper	0.020	0.00190	J						
Lead	0.0050	ND							
Molybdenum	0.010	ND							
Nickel	0.010	ND							
Selenium	0.020	ND							
Silver	0.0050	ND							
Vanadium	0.010	0.00100	J						
Zinc	0.020	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 720-259167/1-A

Instrument Code: Thermo ICP2 Batch No.: 259583

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	ND			6010B
7440-38-2	Arsenic	ND			6010B
7440-39-3	Barium	0.165	J		6010B
7440-41-7	Beryllium	ND			6010B
7440-43-9	Cadmium	ND			6010B
7440-47-3	Chromium	ND			6010B
7440-48-4	Cobalt	ND			6010B
7440-50-8	Copper	ND			6010B
7439-92-1	Lead	0.247	J		6010B
7439-98-7	Molybdenum	ND			6010B
7440-02-0	Nickel	ND			6010B
7782-49-2	Selenium	ND			6010B
7440-22-4	Silver	ND			6010B
7440-28-0	Thallium	ND			6010B
7440-62-2	Vanadium	ND			6010B
7440-66-6	Zinc	ND			6010B

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 720-259153/1-A

Instrument Code: Thermo ICP2 Batch No.: 259616

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	ND			6010B
7440-38-2	Arsenic	ND			6010B
7440-39-3	Barium	ND			6010B
7440-41-7	Beryllium	ND			6010B
7440-43-9	Cadmium	ND			6010B
7440-47-3	Chromium	ND			6010B
7440-48-4	Cobalt	ND			6010B
7440-50-8	Copper	ND			6010B
7439-92-1	Lead	ND			6010B
7439-98-7	Molybdenum	ND			6010B
7440-02-0	Nickel	0.0946	J		6010B
7782-49-2	Selenium	0.218	J		6010B
7440-22-4	Silver	0.0532	J		6010B
7440-28-0	Thallium	ND			6010B
7440-62-2	Vanadium	ND			6010B
7440-66-6	Zinc	ND			6010B

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 720-259152/1-A

Instrument Code: LL_HG II Batch No.: 259510

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471A

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 720-259166/1-A

Instrument Code: LL_HG II Batch No.: 259511

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.0123	J		7471A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSA 720-259656/7 Instrument ID: Thermo ICP

Lab File ID: 020119CAL102.asc ICS Source: ICSA_00142

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	*500*	*498*	*100*
Antimony		*0.0083*	
Arsenic		*0.0040*	
B		*-0.0139*	
Barium		*-0.0013*	
Beryllium		*-0.0004*	
Cadmium		*0.0000*	
Calcium	*500*	*532*	*106*
Chromium		*0.0068*	
Cobalt		*-0.0011*	
Copper		*-0.0107*	
Iron	*500*	*508*	*102*
Lead		*-0.0040*	
Magnesium	*500*	*526*	*105*
Manganese		*0.0161*	
Molybdenum		*-0.0017*	
Nickel		*-0.0006*	
Potassium		*1.16*	
Selenium		*-0.0005*	
Silver		*-0.0012*	
Sn		*-0.0054*	
Sodium		*2.05*	
Sr		*0.0014*	
Thallium		*0.0041*	
Vanadium		*0.0017*	
Zinc		*0.0071*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSAB 720-259656/8 Instrument ID: Thermo ICP

Lab File ID: 020119CAL102.asc ICS Source: ICSAB_00144

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	*500*	*501*	*100*
Antimony	*0.250*	*0.264*	*105*
Arsenic	*0.250*	*0.267*	*107*
B	*0.250*	*0.341*	*136*
Barium	*0.250*	*0.283*	*113*
Beryllium	*0.250*	*0.279*	*112*
Cadmium	*0.250*	*0.241*	*96*
Calcium	*500*	*531*	*106*
Chromium	*0.250*	*0.260*	*104*
Cobalt	*0.250*	*0.241*	*96*
Copper	*0.250*	*0.263*	*105*
Iron	*500*	*507*	*101*
Lead	*0.250*	*0.231*	*92*
Magnesium	*500*	*524*	*105*
Manganese	*0.250*	*0.264*	*106*
Molybdenum	*0.250*	*0.255*	*102*
Nickel	*0.250*	*0.236*	*94*
Potassium		*0.714*	
Selenium	*0.250*	*0.243*	*97*
Silver	*0.125*	*0.133*	*106*
Sn	*0.250*	*0.238*	*95*
Sodium		*2.41*	
Sr	*0.250*	*0.281*	*112*
Thallium	*0.250*	*0.220*	*88*
Vanadium	*0.250*	*0.264*	*105*
Zinc	*0.250*	*0.246*	*98*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSA 720-259583/7 Instrument ID: Thermo ICP2

Lab File ID: 013119CAL102.asc ICS Source: ICSA_00142

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.0021**	
Arsenic		**-0.0042**	
Barium		**0.0013**	
Beryllium		**0.0005**	
Cadmium		**0.0006**	
Chromium		**0.0016**	
Cobalt		**0.0014**	
Copper		**-0.0083**	
Lead		**0.0032**	
Molybdenum		**0.0039**	
Nickel		**0.0021**	
Selenium		**-0.0105**	
Silver		**-0.0015**	
Thallium		**0.0049**	
Vanadium		**-0.0025**	
Zinc		**0.0030**	
Aluminum	*500*	*529*	*106*
B		*-0.0041*	
Calcium	*500*	*559*	*112*
Iron	*500*	*542*	*108*
Magnesium	*500*	*503*	*101*
Manganese		*0.0071*	
Potassium		*0.690*	
Sn		*0.0004*	
Sodium		*0.455*	
Sr		*-0.0026*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSAB 720-259583/8 Instrument ID: Thermo ICP2

Lab File ID: 013119CAL102.asc ICS Source: ICSAB_00144

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Antimony	**0.250**	**0.234**	**94**
Arsenic	**0.250**	**0.235**	**94**
Barium	**0.250**	**0.260**	**104**
Beryllium	**0.250**	**0.254**	**102**
Cadmium	**0.250**	**0.266**	**107**
Chromium	**0.250**	**0.229**	**91**
Cobalt	**0.250**	**0.264**	**106**
Copper	**0.250**	**0.228**	**91**
Lead	**0.250**	**0.261**	**104**
Molybdenum	**0.250**	**0.233**	**93**
Nickel	**0.250**	**0.263**	**105**
Selenium	**0.250**	**0.271**	**108**
Silver	**0.125**	**0.120**	**96**
Thallium	**0.250**	**0.238**	**95**
Vanadium	**0.250**	**0.230**	**92**
Zinc	**0.250**	**0.267**	**107**
Aluminum	*500*	*516*	*103*
B	*0.250*	*0.269*	*107*
Calcium	*500*	*554*	*111*
Iron	*500*	*534*	*107*
Magnesium	*500*	*492*	*98*
Manganese	*0.250*	*0.229*	*92*
Potassium		*0.865*	
Sn	*0.250*	*0.262*	*105*
Sodium		*0.477*	
Sr	*0.250*	*0.255*	*102*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSA 720-259616/7 Instrument ID: Thermo ICP2

Lab File ID: 013119CAL201.asc ICS Source: ICSA_00142

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**-0.0059**	
Arsenic		**-0.0027**	
Barium		**-0.0011**	
Beryllium		**-0.0001**	
Cadmium		**-0.0014**	
Chromium		**0.0013**	
Cobalt		**0.0016**	
Copper		**-0.0078**	
Lead		**0.0038**	
Molybdenum		**0.0032**	
Nickel		**0.0023**	
Selenium		**-0.0064**	
Silver		**-0.0014**	
Thallium		**-0.0054**	
Vanadium		**-0.0026**	
Zinc		**0.0040**	
Aluminum	*500*	*532*	*106*
B		*-0.0051*	
Calcium	*500*	*566*	*113*
Iron	*500*	*547*	*109*
Magnesium	*500*	*514*	*103*
Manganese		*0.0043*	
Potassium		*0.633*	
Sn		*0.0008*	
Sodium		*0.230*	
Sr		*-0.0031*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSAB 720-259616/8 Instrument ID: Thermo ICP2

Lab File ID: 013119CAL201.asc ICS Source: ICSAB_00144

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Antimony	**0.250**	**0.235**	**94**
Arsenic	**0.250**	**0.240**	**96**
Barium	**0.250**	**0.268**	**107**
Beryllium	**0.250**	**0.263**	**105**
Cadmium	**0.250**	**0.274**	**109**
Chromium	**0.250**	**0.233**	**93**
Cobalt	**0.250**	**0.274**	**109**
Copper	**0.250**	**0.235**	**94**
Lead	**0.250**	**0.267**	**107**
Molybdenum	**0.250**	**0.237**	**95**
Nickel	**0.250**	**0.270**	**108**
Selenium	**0.250**	**0.276**	**110**
Silver	**0.125**	**0.123**	**99**
Thallium	**0.250**	**0.236**	**94**
Vanadium	**0.250**	**0.234**	**94**
Zinc	**0.250**	**0.277**	**111**
Aluminum	*500*	*528*	*106*
B	*0.250*	*0.277*	*111*
Calcium	*500*	*560*	*112*
Iron	*500*	*540*	*108*
Magnesium	*500*	*502*	*100*
Manganese	*0.250*	*0.229*	*92*
Potassium		*0.705*	
Sn	*0.250*	*0.269*	*107*
Sodium		*0.316*	
Sr	*0.250*	*0.262*	*105*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSA 720-259951/7 Instrument ID: Thermo ICP2

Lab File ID: 020619CAL307.asc ICS Source: ICSA_00143

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.0002**	
Arsenic		**-0.0029**	
Barium		**0.0016**	
Beryllium		**0.0000**	
Cadmium		**0.0002**	
Chromium		**0.0016**	
Cobalt		**0.0011**	
Copper		**-0.0072**	
Lead		**-0.0002**	
Molybdenum		**0.0039**	
Nickel		**-0.0088**	
Selenium		**0.0009**	
Silver		**0.0012**	
Vanadium		**0.0062**	
Zinc		**0.0039**	
Aluminum	*500*	*518*	*104*
B		*-0.0064*	
Calcium	*500*	*537*	*107*
Iron	*500*	*511*	*102*
Magnesium	*500*	*512*	*102*
Manganese		*0.0060*	
Potassium		*1.26*	
Sn		*0.0001*	
Sodium		*0.627*	
Sr		*-0.0020*	
Thallium		*-0.0003*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSA 720-261958/7 Instrument ID: Thermo ICP2

Lab File ID: 020619CAL307 TL.asc ICS Source: ICSA_00143

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Thallium		**0.0005**	
Aluminum	*500*	*518*	*104*
Antimony		*0.0002*	
Arsenic		*-0.0029*	
B		*-0.0064*	
Barium		*0.0016*	
Beryllium		*0.0000*	
Cadmium		*0.0002*	
Calcium	*500*	*537*	*107*
Chromium		*0.0016*	
Cobalt		*0.0011*	
Copper		*-0.0072*	
Iron	*500*	*511*	*102*
Lead		*-0.0002*	
Magnesium	*500*	*512*	*102*
Manganese		*0.0060*	
Molybdenum		*0.0039*	
Nickel		*-0.0088*	
Potassium		*1.26*	
Selenium		*0.0009*	
Silver		*0.0012*	
Sn		*0.0001*	
Sodium		*0.627*	
Sr		*-0.0020*	
Vanadium		*0.0062*	
Zinc		*0.0039*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSAB 720-259951/8 Instrument ID: Thermo ICP2

Lab File ID: 020619CAL307.asc ICS Source: ICSAB_00145

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Antimony	**0.250**	**0.237**	**95**
Arsenic	**0.250**	**0.237**	**95**
Barium	**0.250**	**0.271**	**108**
Beryllium	**0.250**	**0.245**	**98**
Cadmium	**0.250**	**0.263**	**105**
Chromium	**0.250**	**0.229**	**92**
Cobalt	**0.250**	**0.261**	**104**
Copper	**0.250**	**0.239**	**96**
Lead	**0.250**	**0.257**	**103**
Molybdenum	**0.250**	**0.235**	**94**
Nickel	**0.250**	**0.255**	**102**
Selenium	**0.250**	**0.287**	**115**
Silver	**0.125**	**0.127**	**102**
Vanadium	**0.250**	**0.241**	**96**
Zinc	**0.250**	**0.271**	**108**
Aluminum	*500*	*522*	*104*
B	*0.250*	*0.260*	*104*
Calcium	*500*	*534*	*107*
Iron	*500*	*503*	*101*
Magnesium	*500*	*525*	*105*
Manganese	*0.250*	*0.244*	*97*
Potassium		*1.24*	
Sn	*0.250*	*0.264*	*105*
Sodium		*0.622*	
Sr	*0.250*	*0.261*	*104*
Thallium	*0.250*	*0.214*	*85*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job No.: 720-90960-1

SDG No.:

Lab Sample ID: ICSAB 720-261958/8 Instrument ID: Thermo ICP2

Lab File ID: 020619CAL307 TL.asc ICS Source: ICSAB_00145

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Thallium	**0.250**	**0.201**	**80**
Aluminum	*500*	*522*	*104*
Antimony	*0.250*	*0.237*	*95*
Arsenic	*0.250*	*0.237*	*95*
B	*0.250*	*0.260*	*104*
Barium	*0.250*	*0.271*	*108*
Beryllium	*0.250*	*0.245*	*98*
Cadmium	*0.250*	*0.263*	*105*
Calcium	*500*	*534*	*107*
Chromium	*0.250*	*0.229*	*92*
Cobalt	*0.250*	*0.261*	*104*
Copper	*0.250*	*0.239*	*96*
Iron	*500*	*503*	*101*
Lead	*0.250*	*0.257*	*103*
Magnesium	*500*	*525*	*105*
Manganese	*0.250*	*0.244*	*97*
Molybdenum	*0.250*	*0.235*	*94*
Nickel	*0.250*	*0.255*	*102*
Potassium		*1.24*	
Selenium	*0.250*	*0.287*	*115*
Silver	*0.125*	*0.127*	*102*
Sn	*0.250*	*0.264*	*105*
Sodium		*0.622*	
Sr	*0.250*	*0.261*	*104*
Vanadium	*0.250*	*0.241*	*96*
Zinc	*0.250*	*0.271*	*108*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: DG-AK16S-3.5-4 MS
Lab ID: 720-90960-12 MS
Lab Name: Eurofins TestAmerica, Pleasanton
Job No.: 720-90960-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	9.22		1.2		31.1	26	75-125	F1	6010B
Arsenic	36.2		11		31.1	82	75-125		6010B
Barium	130		130		31.1	2	75-125	4	6010B
Beryllium	28.6		0.35		31.1	91	75-125		6010B
Cadmium	30.0		0.46		31.1	95	75-125		6010B
Chromium	77.5		48		31.1	94	75-125		6010B
Cobalt	42.9		13		31.1	96	75-125		6010B
Copper	53.9		25		31.1	95	75-125		6010B
Lead	70.0		49		31.1	68	75-125	F1	6010B
Molybdenum	25.0		0.23	J	31.1	80	75-125		6010B
Nickel	59.7		30		31.1	94	75-125		6010B
Selenium	27.6		0.84	J	31.1	86	75-125		6010B
Silver	15.5		ND		15.5	100	75-125		6010B
Thallium	29.9		0.46	J	31.1	95	75-125		6010B
Vanadium	80.5		49		31.1	100	75-125		6010B
Zinc	96.6		76		31.1	65	75-125	F1	6010B
Mercury	0.834		0.19		0.794	81	75-125		7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 720-90956-A-9-F MS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/Kg

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	18.2		4.2		45.0	31	75-125	F1	6010B
Arsenic	108		49		45.0	131	75-125	F1	6010B
Barium	330		200		45.0	280	75-125	4	6010B
Beryllium	62.6		0.40		45.0	138	75-125	F1	6010B
Cadmium	60.0		3.4		45.0	126	75-125	F1	6010B
Chromium	127		110		45.0	43	75-125	F1	6010B
Cobalt	74.8		16		45.0	132	75-125	F1	6010B
Copper	428		410		45.0	32	75-125	4	6010B
Lead	202		190		45.0	28	75-125	4	6010B
Molybdenum	51.6		3.3		45.0	107	75-125		6010B
Nickel	114		68		45.0	102	75-125		6010B
Selenium	55.1		8.2		45.0	104	75-125		6010B
Silver	29.5		1.8		22.5	123	75-125		6010B
Thallium	52.1		0.64	J	45.0	114	75-125		6010B
Vanadium	124		51		45.0	162	75-125	F1	6010B
Zinc	523		470		45.0	106	75-125	4	6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: DG-AK16S-3.5-4 MSD Lab ID: 720-90960-12 MSD

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	9.80		31.1	28	75-125	6	20	F1	6010B
Arsenic	38.8		31.1	90	75-125	7	20		6010B
Barium	229		31.1	319	75-125	55	20	4 F2	6010B
Beryllium	29.7		31.1	94	75-125	4	20		6010B
Cadmium	30.6		31.1	97	75-125	2	20		6010B
Chromium	82.0		31.1	108	75-125	6	20		6010B
Cobalt	42.1		31.1	94	75-125	2	20		6010B
Copper	56.8		31.1	104	75-125	5	20		6010B
Lead	103		31.1	175	75-125	38	20	F1 F2	6010B
Molybdenum	25.7		31.1	82	75-125	3	20		6010B
Nickel	60.0		31.1	95	75-125	0	20		6010B
Selenium	28.6		31.1	89	75-125	3	20		6010B
Silver	15.4		15.5	99	75-125	1	20		6010B
Thallium	30.6		31.1	97	75-125	2	20		6010B
Vanadium	79.9		31.1	98	75-125	1	20		6010B
Zinc	110		31.1	110	75-125	13	20		6010B
Mercury	0.848		0.806	82	75-125	2	20		7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 720-90956-A-9-G MSD

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/Kg

% Solids: _____

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	15.5		45.0	25	75-125	16	20	F1	6010B
Arsenic	92.0		45.0	95	75-125	16	20		6010B
Barium	340		45.0	301	75-125	3	20	4	6010B
Beryllium	58.5		45.0	129	75-125	7	20	F1	6010B
Cadmium	58.2		45.0	122	75-125	3	20		6010B
Chromium	129		45.0	47	75-125	1	20	F1	6010B
Cobalt	72.5		45.0	126	75-125	3	20	F1	6010B
Copper	490		45.0	170	75-125	14	20	4	6010B
Lead	237		45.0	106	75-125	16	20	4	6010B
Molybdenum	49.8		45.0	103	75-125	4	20		6010B
Nickel	121		45.0	117	75-125	6	20		6010B
Selenium	135		45.0	282	75-125	84	20	F1 F2	6010B
Silver	29.1		22.5	121	75-125	1	20		6010B
Thallium	49.7		45.0	109	75-125	5	20		6010B
Vanadium	121		45.0	155	75-125	3	20	F1	6010B
Zinc	572		45.0	215	75-125	9	20	4	6010B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: DG-AK16S-3.5-4 PDS Lab ID: 720-90960-12 PDS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	116		1.2		123	93	75-125		6010B
Arsenic	127		11		123	94	75-125		6010B
Barium	232		130		123	83	75-125		6010B
Beryllium	110		0.35		123	89	75-125		6010B
Cadmium	118		0.46		123	95	75-125		6010B
Chromium	163		48		123	93	75-125		6010B
Cobalt	129		13		123	94	75-125		6010B
Copper	140		25		123	94	75-125		6010B
Lead	166		49		123	95	75-125		6010B
Molybdenum	116		0.23	J	123	94	75-125		6010B
Nickel	148		30		123	95	75-125		6010B
Selenium	117		0.84	J	123	94	75-125		6010B
Silver	56.9		ND		61.7	92	75-125		6010B
Thallium	117		0.46	J	123	94	75-125		6010B
Vanadium	164		49		123	93	75-125		6010B
Zinc	194		76		123	95	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 720-90956-A-9-H PDS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	219		4.2		183	117	75-125		6010B
Arsenic	273		49		183	122	75-125		6010B
Barium	492		200		183	157	75-125	W	6010B
Beryllium	234		0.40		183	127	75-125	W	6010B
Cadmium	227		3.4		183	122	75-125		6010B
Chromium	350		110		183	132	75-125	W	6010B
Cobalt	240		16		183	122	75-125		6010B
Copper	726		410		183	170	75-125	W	6010B
Lead	421		190		183	126	75-125	W	6010B
Molybdenum	219		3.3		183	118	75-125		6010B
Nickel	294		68		183	123	75-125		6010B
Selenium	232		8.2		183	122	75-125		6010B
Silver	110		1.8		91.7	118	75-125		6010B
Thallium	221		0.64	J	183	120	75-125		6010B
Vanadium	283		51		183	126	75-125	W	6010B
Zinc	729		470		183	139	75-125	W	6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 720-259167/2-A

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

Sample Matrix: Solid LCS Source: MetCalSpike_s_00067

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	50.0	48.4		97	80	120		6010B
Arsenic	50.0	48.2		96	80	120		6010B
Barium	50.0	45.6		91	80	120		6010B
Beryllium	50.0	45.5		91	80	120		6010B
Cadmium	50.0	50.6		101	80	120		6010B
Chromium	50.0	49.6		99	80	120		6010B
Cobalt	50.0	51.3		103	80	120		6010B
Copper	50.0	49.1		98	80	120		6010B
Lead	50.0	52.4		105	80	120		6010B
Molybdenum	50.0	49.3		99	80	120		6010B
Nickel	50.0	52.3		105	80	120		6010B
Selenium	50.0	49.4		99	80	120		6010B
Silver	25.0	24.4		98	80	120		6010B
Thallium	50.0	51.9		104	80	120		6010B
Vanadium	50.0	49.4		99	80	120		6010B
Zinc	50.0	51.2		102	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 720-259153/2-A

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

Sample Matrix: Solid LCS Source: MetCalSpike_s_00067

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	50.0	50.1		100	80	120		6010B
Arsenic	50.0	49.6		99	80	120		6010B
Barium	50.0	50.4		101	80	120		6010B
Beryllium	50.0	52.4		105	80	120		6010B
Cadmium	50.0	53.6		107	80	120		6010B
Chromium	50.0	51.5		103	80	120		6010B
Cobalt	50.0	54.9		110	80	120		6010B
Copper	50.0	51.2		102	80	120		6010B
Lead	50.0	53.7		107	80	120		6010B
Molybdenum	50.0	51.1		102	80	120		6010B
Nickel	50.0	53.4		107	80	120		6010B
Selenium	50.0	51.0		102	80	120		6010B
Silver	25.0	24.2		97	80	120		6010B
Thallium	50.0	53.0		106	80	120		6010B
Vanadium	50.0	50.4		101	80	120		6010B
Zinc	50.0	52.7		105	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 720-259152/2-A

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

Sample Matrix: Solid LCS Source: S Hg ICV_01698

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.743		89	80	120		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 720-259166/2-A

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

Sample Matrix: Solid LCS Source: S Hg ICV_01698

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.833	0.762		91	80	120		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 720-90960-12

SDG No:

Lab Name: Eurofins TestAmerica, Pleasanton Job No: 720-90960-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	1.2		ND		NC		6010B
Arsenic	11		11.6	J	7.4		6010B
Barium	130		141		8.6		6010B
Beryllium	0.35		1.05	J	NC		6010B
Cadmium	0.46		1.40	J	NC		6010B
Chromium	48		53.8		11	V	6010B
Cobalt	13		14.7		14	V	6010B
Copper	25		27.7		NC		6010B
Lead	49		55.2		13	V	6010B
Molybdenum	0.23	J	1.29	J	NC		6010B
Nickel	30		33.0		8.8		6010B
Selenium	0.84	J	ND		NC		6010B
Silver	ND		ND		NC		6010B
Thallium	0.46	J	7.94		NC		6010B
Vanadium	49		54.0		9.4		6010B
Zinc	76		80.5		NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 720-90956-A-9-H SD

SDG No:

Lab Name: Eurofins TestAmerica, Pleasanton Job No: 720-90960-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	4.2		4.55	J	NC		6010B
Arsenic	49		56.1		14	V	6010B
Barium	200		241		18	V	6010B
Beryllium	0.40		2.29		NC		6010B
Cadmium	3.4		4.89		44	V	6010B
Chromium	110		126		18	V	6010B
Cobalt	16		16.8		8.6		6010B
Copper	410		485		17	V	6010B
Lead	190		192		1.4		6010B
Molybdenum	3.3		5.20	J	NC		6010B
Nickel	68		70.6		3.4		6010B
Selenium	8.2		14.9	J	NC		6010B
Silver	1.8		4.05	J	NC		6010B
Thallium	0.64	J	8.13	J	NC		6010B
Vanadium	51		62.1		22	V	6010B
Zinc	470		468		1.5		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG Number:

Matrix: Solid Instrument ID: Thermo ICP

Method: 6010B MDL Date: 11/08/2018 17:13

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Antimony		0.5	0.083
Arsenic		1	0.085
Cadmium		0.125	0.0124
Chromium		0.5	0.053
Cobalt		0.2	0.02
Copper		1.5	0.7121
Lead		0.5	0.105
Nickel		0.5	0.051
Selenium		1	0.15
Silver		0.25	0.0505
Thallium		0.5	0.145
Vanadium		0.5	0.068
Zinc		1.5	0.635

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG Number:

Matrix: Solid Instrument ID: Thermo ICP

Method: 6010B XMDL Date: 10/11/2018 14:25

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Antimony		0.01	0.0027
Arsenic		0.01	0.0026
Cadmium		0.0025	0.0013
Chromium		0.01	0.0015
Cobalt		0.002	0.0012
Copper		0.02	0.0015
Lead		0.005	0.0023
Nickel		0.01	0.0008
Selenium		0.02	0.0071
Silver		0.005	0.0012
Thallium		0.01	0.0035
Vanadium		0.01	0.0007
Zinc		0.02	0.0096

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG Number:

Matrix: Solid Instrument ID: Thermo ICP2

Method: 6010B MDL Date: 11/08/2018 17:13

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Antimony		0.5	0.083
Arsenic		1	0.085
Barium		0.5	0.071
Beryllium		0.1	0.0325
Cadmium		0.125	0.0124
Chromium		0.5	0.053
Cobalt		0.2	0.02
Copper		1.5	0.7121
Lead		0.5	0.105
Molybdenum		0.5	0.064
Nickel		0.5	0.051
Selenium		1	0.15
Silver		0.25	0.0505
Thallium		0.5	0.145
Vanadium		0.5	0.068
Zinc		1.5	0.635

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG Number:

Matrix: Solid Instrument ID: Thermo ICP2

Method: 6010B XMDL Date: 10/11/2018 14:25

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Antimony		0.01	0.0027
Arsenic		0.01	0.0026
Barium		0.01	0.0014
Beryllium		0.002	0.00033
Cadmium		0.0025	0.0013
Chromium		0.01	0.0015
Cobalt		0.002	0.0012
Copper		0.02	0.0015
Lead		0.005	0.0023
Molybdenum		0.01	0.0023
Nickel		0.01	0.0008
Selenium		0.02	0.0071
Silver		0.005	0.0012
Thallium		0.01	0.0035
Vanadium		0.01	0.0007
Zinc		0.02	0.0096

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG Number:

Matrix: Solid Instrument ID: LL_HG II

Method: 7471A MDL Date: 09/03/2010 12:18

Prep Method: 7471A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.017	0.0025

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG Number:

Matrix: Solid Instrument ID: LL_HG II

Method: 7471A XMDL Date: 10/01/2005 12:15

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury		0.0002	0.0001

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG No.:

ICP-AES Instrument ID: Thermo ICP2 Date: 10/05/2018

Analyte	Wave Length	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	CaCO3	Cd	Co	Cr	Cr6
Aluminum	396.152														
Antimony	206.833		0.00001946	0.00027800						0.00000900				0.01196700	
Arsenic	189.042													-0.01059940	
Barium	455.403														
Beryllium	313.042														
Bismuth															
Boron	208.959						0.00006600								
Cadmium	214.438														
Cadmium	226.502													0.00006980	
Calcium	317.933														
Chromium	267.716		0.00000140												
Cobalt	228.616														
Copper	327.396			-0.00001300						0.00000504					
Gold	242.795														
Iron	239.562														
Iron	259.940														
Lanthanum															
Lead	220.353		-0.00006749							-0.00007663					
Lithium															
Lutetium															
Magnesium	279.079									0.00002442					
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604							-0.00136500		0.00001200					
Palladium															
Phosphorus															
Potassium	769.896														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG No.:

ICP-AES Instrument ID: Thermo ICP2 Date: 10/05/2018

Analyte	Wave Length	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	CaCO3	Cd	Co	Cr	Cr6
Selenium	196.090		-0.00001300							0.00001000					
Silicon	212.412														
Silver	328.068														
Sodium	588.995	0.1410000													
Sodium	589.592														
Strontium	407.771														
Sulfur															
Thallium	190.856												0.00397400	0.00037800	
Thorium															
Tin	189.989														
Titanium	336.121														
Tungsten															
Uranium															
Vanadium	292.402													-0.000030	
Zinc	206.200														
Zinc	213.856														
Zirconium															

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG No.:

ICP-AES Instrument ID: Thermo ICP2 Date: 10/05/2018

Analyte	Wave Length	Cu	Fe	HardCC	K	La	Li	Lu	Mg	MgHARD	Mn	Mo	Na	Ni	P
Aluminum	396.152											0.02988243			
Antimony	206.833		-0.000019									-0.00408300		-0.00062400	
Arsenic	189.042		-0.0000098												
Barium	455.403														
Beryllium	313.042														
Bismuth															
Boron	208.959		-0.000044									0.024636			
Cadmium	214.438		0.00005												
Cadmium	226.502		0.000002												
Calcium	317.933														
Chromium	267.716		-0.00000436												
Cobalt	228.616		0.00000539									-0.000936			
Copper	327.396		0.00000494												
Gold	242.795		0.00014840								-0.003802				
Iron	259.940														
Iron	239.562														
Lanthanum															
Lead	220.353		0.000065								0	-0.00025		0.00025000	
Lithium															
Lutetium															
Magnesium	279.079		0.00001236								0.00243838	-0.00585191			
Manganese	257.610								0.00003970						
Molybdenum	202.030														
Nickel	231.604		-0.00005120									0.00020700			
Palladium															
Phosphorus															
Potassium	769.896		0.00492200						-0.000610						

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG No.:

ICP-AES Instrument ID: Thermo ICP2 Date: 10/05/2018

Analyte	Wave Length	Cu	Fe	HardCC	K	La	Li	Lu	Mg	MgHARD	Mn	Mo	Na	Ni	P
Selenium	196.090		0.00000920								0.00054000				
Silicon	212.412		0.00000113									0.02000000			
Silver	328.068		-0.000002												
Sodium	589.592														
Sodium	588.995														
Strontium	407.771		0.00002												
Sulfur															
Thallium	190.856		-0.00001000								0.000864				
Thorium															
Tin	189.989		0.00000113												
Titanium	336.121														
Tungsten															
Uranium															
Vanadium	292.402		0.00004660									-0.01073240			
Zinc	206.200														
Zinc	213.856	0.00245300	0.000144						-0.00000350					0.00421400	
Zirconium															

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG No.:

ICP-AES Instrument ID: Thermo ICP2 Date: 10/05/2018

Analyte	Wave Length	Pb	Pd	Pt	S	Sb	Sc	Se	Si	SiO2	Sn	Sr	Te	Th	Ti
Aluminum	396.152														
Antimony	206.833										-0.01233800				
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Bismuth															
Boron	208.959					0.00094600									
Cadmium	214.438														
Cadmium	226.502														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														0.00158200
Copper	327.396														
Gold	242.795					0.00094600									
Iron	239.562														
Iron	259.940														
Lanthanum															
Lead	220.353								00006						
Lithium															
Lutetium															
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Palladium															
Phosphorus															
Potassium	769.896														
Selenium	196.090														
Silicon	212.412					0.0124400					0.0070800				0.0102800

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG No.:

ICP-AES Instrument ID: Thermo ICP2 Date: 10/05/2018

Analyte	Wave Length	Pb	Pd	Pt	S	Sb	Sc	Se	Si	SiO2	Sn	Sr	Te	Th	Ti
Silver	328.068														
Sodium	588.995														
Sodium	589.592														
Strontium	407.771														
Sulfur															
Thallium	190.856														-0.001112
Thorium															
Tin	189.989														-0.001938
Titanium	336.121														
Tungsten															
Uranium															
Vanadium	292.402														
Zinc	206.200														
Zinc	213.856	0.0001													
Zirconium															

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG No.:

ICP-AES Instrument ID: Thermo ICP2 Date: 10/05/2018

Analyte	Wave Length	Tl	U	V	V2O5	W	Y	Zn	Zr						
Aluminum	396.152														
Antimony	206.833			-0.001205											
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042			0.00053600											
Bismuth															
Boron	208.959														
Cadmium	214.438														
Cadmium	226.502														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Gold	242.795														
Iron	259.940														
Iron	239.562														
Lanthanum															
Lead	220.353														
Lithium															
Lutetium															
Magnesium	279.079							-0.00104838							
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604	0.00034400													
Palladium															
Phosphorus															
Potassium	769.896														
Selenium	196.090														
Silicon	212.412														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG No.:

ICP-AES Instrument ID: Thermo ICP2 Date: 10/05/2018

Analyte	Wave Length	Tl	U	V	V2O5	W	Y	Zn	Zr						
Silver	328.068			-0.00252050											
Sodium	589.592														
Sodium	588.995														
Strontium	407.771														
Sulfur															
Thallium	190.856			-0.01274800											
Thorium															
Tin	189.989														
Titanium	336.121			-0.00035											
Tungsten															
Uranium															
Vanadium	292.402														
Zinc	206.200														
Zinc	213.856														
Zirconium															

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Pleasant Job No: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP Date: 02/09/2018 17:10

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Antimony		50	6010B
Arsenic		50	6010B
Cadmium		20	6010B
Chromium		50	6010B
Cobalt		50	6010B
Copper		50	6010B
Lead		50	6010B
Nickel		50	6010B
Selenium		20	6010B
Silver		4.0	6010B
Thallium		50	6010B
Vanadium		50	6010B
Zinc		50	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Pleasant Job No: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP2 Date: 02/09/2018 17:16

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Antimony		50	6010B
Arsenic		40	6010B
Barium		40	6010B
Beryllium		50	6010B
Cadmium		18	6010B
Chromium		20	6010B
Cobalt		50	6010B
Copper		50	6010B
Lead		50	6010B
Molybdenum		20	6010B
Nickel		50	6010B
Selenium		20	6010B
Silver		5.0	6010B
Thallium		50	6010B
Vanadium		40	6010B
Zinc		50	6010B

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 720-259153/1-A	01/25/2019 09:46	259153	1		50
LCS 720-259153/2-A	01/25/2019 09:46	259153	1		50
720-90956-A-9-F MS	01/25/2019 09:46	259153	1.11		50
720-90956-A-9-G MSD	01/25/2019 09:46	259153	1.11		50
720-90960-1	01/25/2019 09:46	259153	1.38		50
720-90960-2	01/25/2019 09:46	259153	1.43		50
720-90960-3	01/25/2019 09:46	259153	1.67		50
720-90960-4	01/25/2019 09:46	259153	1.70		50
720-90960-5	01/25/2019 09:46	259153	1.11		50
720-90960-6	01/25/2019 09:46	259153	1.33		50
720-90960-7	01/25/2019 09:46	259153	1.25		50
720-90960-8	01/25/2019 09:46	259153	1.40		50
720-90960-9	01/25/2019 09:46	259153	1.45		50
720-90960-10	01/25/2019 09:46	259153	1.07		50
720-90960-11	01/25/2019 09:46	259153	1.13		50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 720-259167/1-A	01/26/2019 11:54	259167	1		50
LCS 720-259167/2-A	01/26/2019 11:54	259167	1		50
720-90960-12 MS	01/26/2019 11:54	259167	1.61		50
720-90960-12 MSD	01/26/2019 11:54	259167	1.61		50
720-90960-12	01/26/2019 11:54	259167	1.62		50
720-90960-13	01/26/2019 11:54	259167	1.25		50
720-90960-14	01/26/2019 11:54	259167	1.79		50
720-90960-15	01/26/2019 11:54	259167	1.39		50
720-90960-16	01/26/2019 11:54	259167	1.98		50
720-90960-17	01/26/2019 11:54	259167	1.17		50
720-90960-18	01/26/2019 11:54	259167	1.29		50
720-90960-19	01/26/2019 11:54	259167	1.55		50
720-90960-20	01/26/2019 11:54	259167	1.18		50
720-90960-21	01/26/2019 11:54	259167	1.16		50
720-90960-22	01/26/2019 11:54	259167	1.31		50
720-90960-23	01/26/2019 11:54	259167	1.10		50
720-90960-24	01/26/2019 11:54	259167	1.81		50
720-90960-25	01/26/2019 11:54	259167	1.64		50
720-90960-26	01/26/2019 11:54	259167	1.30		50
720-90960-27	01/26/2019 11:54	259167	1.63		50
720-90960-28	01/26/2019 11:54	259167	1.56		50
720-90960-29	01/26/2019 11:54	259167	1.39		50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 720-259152/1-A	01/30/2019 10:38	259152	0.6		50
LCS 720-259152/2-A	01/30/2019 10:38	259152	0.6		50
720-90960-1	01/30/2019 10:38	259152	0.61		50
720-90960-2	01/30/2019 10:38	259152	0.64		50
720-90960-3	01/30/2019 10:38	259152	0.68		50
720-90960-4	01/30/2019 10:38	259152	0.70		50
720-90960-5	01/30/2019 10:38	259152	0.65		50
720-90960-6	01/30/2019 10:38	259152	0.64		50
720-90960-7	01/30/2019 10:38	259152	0.66		50
720-90960-8	01/30/2019 10:38	259152	0.71		50
720-90960-9	01/30/2019 10:38	259152	0.62		50
720-90960-10	01/30/2019 10:38	259152	0.65		50
720-90960-11	01/30/2019 10:38	259152	0.66		50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 720-259166/1-A	01/30/2019 10:38	259166	0.6		50
LCS 720-259166/2-A	01/30/2019 10:38	259166	0.6		50
720-90960-12 MS	01/30/2019 10:38	259166	0.63		50
720-90960-12 MSD	01/30/2019 10:38	259166	0.62		50
720-90960-12	01/30/2019 10:38	259166	0.62		50
720-90960-13	01/30/2019 10:38	259166	0.61		50
720-90960-14	01/30/2019 10:38	259166	0.71		50
720-90960-15	01/30/2019 10:38	259166	0.71		50
720-90960-16	01/30/2019 10:38	259166	0.64		50
720-90960-17	01/30/2019 10:38	259166	0.70		50
720-90960-18	01/30/2019 10:38	259166	0.71		50
720-90960-19	01/30/2019 10:38	259166	0.68		50
720-90960-20	01/30/2019 10:38	259166	0.70		50
720-90960-21	01/30/2019 10:38	259166	0.69		50
720-90960-22	01/30/2019 10:38	259166	0.62		50
720-90960-23	01/30/2019 10:38	259166	0.67		50
720-90960-24	01/30/2019 10:38	259166	0.67		50
720-90960-25	01/30/2019 10:38	259166	0.65		50
720-90960-26	01/30/2019 10:38	259166	0.61		50
720-90960-27	01/30/2019 10:38	259166	0.72		50
720-90960-28	01/30/2019 10:38	259166	0.62		50
720-90960-29	01/30/2019 10:38	259166	0.69		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP Analysis Method: 6010B

Start Date: 02/01/2019 08:46 End Date: 02/01/2019 12:04

Lab Sample Id	D/F	Type	Time	Analytes																							
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	Zn								
ICIS 720-259656/1	1		08:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
IC 720-259656/2	1		08:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			08:55																								
ICV 720-259656/4	1		09:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICB 720-259656/5	1		09:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CRI 720-259656/6	1		09:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICSA 720-259656/7	1		09:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICSAB 720-259656/8	1		09:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCV 720-259656/9			09:24																								
CCB 720-259656/10			09:29																								
CCV 720-259656/11			09:34																								
CCB 720-259656/12			09:39																								
CCV 720-259656/13			10:50																								
CCB 720-259656/14			10:55																								
ZZZZZZ			11:12																								
CCV 720-259656/16			11:59																								
CCB 720-259656/17			12:04																								

Prep Types:
=

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP Analysis Method: 6010B

Start Date: 02/01/2019 10:50 End Date: 02/01/2019 12:28

Lab Sample Id	D/F	Type	Time	Analytes																									
				Ag	As	Cd	Co	Cr	Cu	Ni	Pb	Sb	Se	Tl	V	Zn														
CCV 720-259661/1			10:50																										
CCB 720-259661/2			10:55																										
ZZZZZZ			11:50																										
ZZZZZZ			11:54																										
CCV 720-259661/5	1		11:59	X	X	X	X	X	X	X	X	X	X	X	X	X														
CCB 720-259661/6	1		12:04	X	X	X	X	X	X	X	X	X	X	X	X	X														
ZZZZZZ			12:09																										
720-90960-1	10	T	12:14	X	X	X	X	X	X	X	X	X	X	X	X	X														
720-90960-5	4	T	12:18									X																		
CCV 720-259661/10	1		12:23	X	X	X	X	X	X	X	X	X	X	X	X	X														
CCB 720-259661/11	1		12:28	X	X	X	X	X	X	X	X	X	X	X	X	X														

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP2 Analysis Method: 6010B

Start Date: 01/31/2019 08:46 End Date: 01/31/2019 15:10

Lab Sample Id	D/F	Type	Time	Analytes																							
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	Zn								
ICIS 720-259583/1	1		08:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
IC 720-259583/2			08:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			08:56																								
ICV 720-259583/4	1		09:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICB 720-259583/5	1		09:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CRI 720-259583/6	1		09:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICSA 720-259583/7	1		09:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICSAB 720-259583/8	1		09:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCV 720-259583/9			09:25																								
CCB 720-259583/10			09:29																								
CCV 720-259583/11	1		14:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 720-259583/12	1		14:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
MB 720-259167/1-A	1	T	14:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
LCS 720-259167/2-A	1	T	14:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-12 MS	4	T	14:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-12 MSD	4	T	14:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-12 PDS	4	T	14:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-12 SD	20	T	14:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-12	4	T	14:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCV 720-259583/20	1		15:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 720-259583/21	1		15:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP2 Analysis Method: 6010B

Start Date: 01/31/2019 16:46 End Date: 01/31/2019 20:41

Lab Sample Id	D/F	Type	Time	Analytes																							
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	Zn								
ICIS 720-259616/1	1		16:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
IC 720-259616/2			16:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			16:56																								
ZZZZZZ			17:00																								
ZZZZZZ			17:05																								
ZZZZZZ			17:10																								
ICSA 720-259616/7	1		17:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICSAB 720-259616/8	1		17:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICV 720-259616/9	1		17:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICB 720-259616/10	1		17:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CRI 720-259616/11	1		17:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCV 720-259616/12	1		17:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 720-259616/13	1		17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
MB 720-259153/1-A	1	T	17:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
LCS 720-259153/2-A	1	T	17:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90956-A-9-F MS	4	T	18:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90956-A-9-G MSD	4	T	18:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90956-A-9-H PDS	4	T	18:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90956-A-9-H SD	20	T	18:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			18:23																								
ZZZZZZ			18:27																								
ZZZZZZ			18:32																								
ZZZZZZ			18:37																								
CCV 720-259616/24	1		18:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 720-259616/25	1		18:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			18:51																								
ZZZZZZ			18:56																								
ZZZZZZ			19:01																								
ZZZZZZ			19:06																								
ZZZZZZ			19:10																								
720-90960-1	4	T	19:15			X	X					X															
720-90960-2	4	T	19:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-3	4	T	19:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-4	4	T	19:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-5	4	T	19:34	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X								
CCV 720-259616/36	1		19:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 720-259616/37	1		19:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-6	4	T	19:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-7	4	T	19:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-8	4	T	19:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-9	4	T	20:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
720-90960-10	4	T	20:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP2 Analysis Method: 6010B

Start Date: 01/31/2019 16:46 End Date: 01/31/2019 20:41

Lab Sample Id	D/F	Type	Time	Analytes																							
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	Zn								
720-90960-11	4	T	20:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCV 720-259616/44	1		20:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 720-259616/45	1		20:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP2 Analysis Method: 6010B

Start Date: 02/06/2019 14:19 End Date: 02/07/2019 01:08

Lab Sample Id	D/F	Type	Time	Analytes																							
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	V	Zn										
ICIS 720-259951/1	1		14:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
IC 720-259951/2			14:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
ZZZZZZ			14:29																								
ICV 720-259951/4	1		14:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
ICB 720-259951/5	1		14:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CRI 720-259951/6	1		14:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
ICSA 720-259951/7	1		14:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
ICSAB 720-259951/8	1		14:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CCV 720-259951/9			14:57																								
CCB 720-259951/10			15:02																								
CCV 720-259951/11	1		22:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CCB 720-259951/12	1		22:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-13	4	T	23:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-14	4	T	23:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-15	4	T	23:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-16	4	T	23:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-17	4	T	23:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-18	4	T	23:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CCV 720-259951/19	1		23:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CCB 720-259951/20	1		23:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-19	4	T	23:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-20	4	T	23:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-21	4	T	00:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-22	4	T	00:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-23	4	T	00:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-24	4	T	00:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-25	4	T	00:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-26	4	T	00:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-27	4	T	00:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-28	4	T	00:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CCV 720-259951/31	1		00:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CCB 720-259951/32	1		00:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
720-90960-29	4	T	00:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
ZZZZZZ			00:54																								
ZZZZZZ			00:58																								
CCV 720-259951/36	1		01:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										
CCB 720-259951/37	1		01:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X										

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: Thermo ICP2 Analysis Method: 6010B

Start Date: 02/06/2019 14:19 End Date: 02/07/2019 01:08

Lab Sample Id	D/F	Type	Time	Analytes																								
				Tl																								
ICIS 720-261958/1	1		14:19	X																								
IC 720-261958/2			14:24	X																								
ZZZZZZ			14:29																									
ICV 720-261958/4	1		14:33	X																								
ICB 720-261958/5	1		14:38	X																								
CRI 720-261958/6	1		14:43	X																								
ICSA 720-261958/7	1		14:48	X																								
ICSAB 720-261958/8	1		14:53	X																								
CCV 720-261958/9			14:57																									
CCB 720-261958/10			15:02																									
CCV 720-261958/11	1		22:43	X																								
CCB 720-261958/12	1		22:48	X																								
720-90960-13	4	T	23:12	X																								
720-90960-14	4	T	23:17	X																								
720-90960-15	4	T	23:22	X																								
720-90960-16	4	T	23:27	X																								
720-90960-17	4	T	23:31	X																								
720-90960-18	4	T	23:36	X																								
CCV 720-261958/19	1		23:41	X																								
CCB 720-261958/20	1		23:46	X																								
720-90960-19	4	T	23:51	X																								
720-90960-20	4	T	23:56	X																								
720-90960-21	4	T	00:00	X																								
720-90960-22	4	T	00:05	X																								
720-90960-23	4	T	00:10	X																								
720-90960-24	4	T	00:15	X																								
720-90960-25	4	T	00:20	X																								
720-90960-26	4	T	00:25	X																								
720-90960-27	4	T	00:30	X																								
720-90960-28	4	T	00:34	X																								
CCV 720-261958/31	1		00:39	X																								
CCB 720-261958/32	1		00:44	X																								
720-90960-29	4	T	00:49	X																								
CCV 720-261958/34	1		01:03	X																								
CCB 720-261958/35	1		01:08	X																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: LL_HG II Analysis Method: 7471A

Start Date: 01/30/2019 12:42 End Date: 01/30/2019 15:49

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
CCV 720-259510/1	1		12:42	X																								
CCB 720-259510/2	1		12:44	X																								
MB 720-259152/1-A	1	T	13:58	X																								
LCS 720-259152/2-A	1	T	14:00	X																								
ZZZZZZ			14:02																									
ZZZZZZ			14:05																									
ZZZZZZ			14:08																									
ZZZZZZ			14:10																									
ZZZZZZ			14:13																									
ZZZZZZ			14:15																									
ZZZZZZ			14:17																									
ZZZZZZ			14:20																									
CCV 720-259510/13	1		14:22	X																								
CCB 720-259510/14	1		14:25	X																								
ZZZZZZ			14:27																									
ZZZZZZ			14:29																									
ZZZZZZ			14:32																									
720-90960-1	1	T	14:34	X																								
720-90960-2	1	T	14:36	X																								
720-90960-3	1	T	14:39	X																								
720-90960-4	1	T	14:41	X																								
720-90960-5	1	T	14:43	X																								
720-90960-6	1	T	14:46	X																								
720-90960-7	1	T	14:48	X																								
CCV 720-259510/25	1		14:50	X																								
CCB 720-259510/26	1		14:52	X																								
720-90960-8	1	T	14:55	X																								
720-90960-9	1	T	14:57	X																								
720-90960-10	1	T	14:59	X																								
720-90960-11	1	T	15:02	X																								
ZZZZZZ			15:04																									
ZZZZZZ			15:06																									
ZZZZZZ			15:09																									
ZZZZZZ			15:11																									
ZZZZZZ			15:14																									
ZZZZZZ			15:16																									
CCV 720-259510/37	1		15:19	X																								
CCB 720-259510/38	1		15:21	X																								
ZZZZZZ			15:24																									
CCV 720-259510/40			15:47																									
CCB 720-259510/41			15:49																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: LL_HG II Analysis Method: 7471A

Start Date: 01/30/2019 12:42 End Date: 01/30/2019 15:49

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: LL_HG II Analysis Method: 7471A

Start Date: 01/30/2019 15:19 End Date: 01/30/2019 16:33

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
CCV 720-259511/1	1		15:19	X																								
CCB 720-259511/2	1		15:21	X																								
MB 720-259166/1-A	1	T	15:26	X																								
LCS 720-259166/2-A	1	T	15:28	X																								
720-90960-12 MS	1	T	15:30	X																								
720-90960-12 MSD	1	T	15:33	X																								
720-90960-12	1	T	15:35	X																								
720-90960-13	1	T	15:38	X																								
720-90960-14	1	T	15:40	X																								
720-90960-15	1	T	15:43	X																								
720-90960-16	1	T	15:45	X																								
CCV 720-259511/12	1		15:47	X																								
CCB 720-259511/13	1		15:49	X																								
720-90960-17	1	T	15:52	X																								
720-90960-18	1	T	15:54	X																								
720-90960-19	1	T	15:56	X																								
720-90960-20	1	T	15:59	X																								
720-90960-21	1	T	16:01	X																								
720-90960-22	1	T	16:03	X																								
720-90960-23	1	T	16:06	X																								
720-90960-24	1	T	16:08	X																								
720-90960-25	1	T	16:10	X																								
720-90960-26	1	T	16:12	X																								
CCV 720-259511/24	1		16:15	X																								
CCB 720-259511/25	1		16:17	X																								
720-90960-27	1	T	16:20	X																								
720-90960-28	1	T	16:22	X																								
720-90960-29	1	T	16:24	X																								
ZZZZZZ			16:26																									
ZZZZZZ			16:29																									
CCV 720-259511/31	1		16:31	X																								
CCB 720-259511/32	1		16:33	X																								

Prep Types:
T = Total/NA

FORM XIII-IN

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICP Instrument ID: Thermo ICP Start Date: 02/01/2019 End Date: 02/01/2019

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y 224.306	Q	Element Y 371.030	Q	Element	Q	Element	Q	Element	Q
ICIS 720-259656/1	08:46										
IC 720-259656/2	08:51										
ICV 720-259656/4	09:00	97		98							
ICB 720-259656/5	09:05	97		99							
CRI 720-259656/6	09:10	93		95							
ICSA 720-259656/7	09:15	64	*	66							
ICSAB 720-259656/8	09:20	63	*	65							

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICP Instrument ID: Thermo ICP Start Date: 02/01/2019 End Date: 02/01/2019

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y 224.306	Q	Element Y 371.030	Q	Element	Q	Element	Q	Element	Q
CCV 720-259661/5	11:59										
CCB 720-259661/6	12:04										
720-90960-1	12:14										
720-90960-5	12:18										
CCV 720-259661/10	12:23										
CCB 720-259661/11	12:28										

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICP Instrument ID: Thermo ICP2 Start Date: 01/31/2019 End Date: 01/31/2019

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y 224.306	Q	Element Y 371.030	Q	Element	Q	Element	Q	Element	Q
ICIS 720-259583/1	08:46										
ICV 720-259583/4	09:01	101		96							
ICB 720-259583/5	09:05	103		101							
CRI 720-259583/6	09:10	104		103							
ICSA 720-259583/7	09:15	82		78							
ICSAB 720-259583/8	09:20	82		79							
CCV 720-259583/11	14:08	98		95							
CCB 720-259583/12	14:12	102		100							
MB 720-259167/1-A	14:23	96		94							
LCS 720-259167/2-A	14:28	95		94							
720-90960-12 MS	14:33	99		97							
720-90960-12 MSD	14:37	101		97							
720-90960-12 PDS	14:42	98		95							
720-90960-12 SD	14:47	103		100							
720-90960-12	14:51	100		96							
CCV 720-259583/20	15:06	99		97							
CCB 720-259583/21	15:10	101		99							

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICP Instrument ID: Thermo ICP2 Start Date: 01/31/2019 End Date: 01/31/2019

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y 224.306	Q	Element Y 371.030	Q	Element	Q	Element	Q	Element	Q
ICIS 720-259616/1	16:46										
ICSA 720-259616/7	17:15	82		82							
ICSAB 720-259616/8	17:20	82		81							
ICV 720-259616/9	17:24	101		101							
ICB 720-259616/10	17:29	105		103							
CRI 720-259616/11	17:34	105		105							
CCV 720-259616/12	17:39	101		101							
CCB 720-259616/13	17:43	103		103							
MB 720-259153/1-A	17:54	98		99							
LCS 720-259153/2-A	17:59	97		96							
720-90956-A-9-F MS	18:04	101		99							
720-90956-A-9-G MSD	18:08	99		99							
720-90956-A-9-H PDS	18:13	96		96							
720-90956-A-9-H SD	18:18	103		102							
CCV 720-259616/24	18:42	103		99							
CCB 720-259616/25	18:46	102		104							
720-90960-1	19:15	98		100							
720-90960-2	19:20	104		104							
720-90960-3	19:25	105		102							
720-90960-4	19:29	103		103							
720-90960-5	19:34	100		100							
CCV 720-259616/36	19:39	102		100							
CCB 720-259616/37	19:44	103		105							
720-90960-6	19:48	102		103							
720-90960-7	19:53	107		103							
720-90960-8	19:58	102		101							
720-90960-9	20:03	96		97							
720-90960-10	20:07	102		101							
720-90960-11	20:12	103		102							
CCV 720-259616/44	20:36	103		101							
CCB 720-259616/45	20:41	105		104							

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICP Instrument ID: Thermo ICP2 Start Date: 02/06/2019 End Date: 02/07/2019

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y 224.306	Q	Element Y 371.030	Q	Element	Q	Element	Q	Element	Q
ICIS 720-259951/1	14:19										
ICV 720-259951/4	14:33	96		96							
ICB 720-259951/5	14:38	101		102							
CRI 720-259951/6	14:43	103		94							
ICSA 720-259951/7	14:48	82		81							
ICSAB 720-259951/8	14:53	80		82							
CCV 720-259951/11	22:43	100		88							
CCB 720-259951/12	22:48	105		101							
720-90960-13	23:12	102		97							
720-90960-14	23:17	101		97							
720-90960-15	23:22	104		100							
720-90960-16	23:27	103		98							
720-90960-17	23:31	105		100							
720-90960-18	23:36	105		100							
CCV 720-259951/19	23:41	100		95							
CCB 720-259951/20	23:46	102		98							
720-90960-19	23:51	105		99							
720-90960-20	23:56	109		104							
720-90960-21	00:00	103		98							
720-90960-22	00:05	106		100							
720-90960-23	00:10	104		100							
720-90960-24	00:15	115		108							
720-90960-25	00:20	107		102							
720-90960-26	00:25	103		98							
720-90960-27	00:30	104		97							
720-90960-28	00:34	106		101							
CCV 720-259951/31	00:39	100		96							
CCB 720-259951/32	00:44	104		101							
720-90960-29	00:49	105		101							
CCV 720-259951/36	01:03	102		97							
CCB 720-259951/37	01:08	104		100							

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

ICP Instrument ID: Thermo ICP2 Start Date: 02/06/2019 End Date: 02/07/2019

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y 224.306	Q	Element Y 371.030	Q	Element	Q	Element	Q	Element	Q
ICIS 720-261958/1	14:19										
ICV 720-261958/4	14:33	96		96							
ICB 720-261958/5	14:38	101		102							
CRI 720-261958/6	14:43	103		94							
ICSA 720-261958/7	14:48	82		81							
ICSAB 720-261958/8	14:53	80		82							
CCV 720-261958/11	22:43	100		88							
CCB 720-261958/12	22:48	105		101							
720-90960-13	23:12	102		97							
720-90960-14	23:17	101		97							
720-90960-15	23:22	104		100							
720-90960-16	23:27	103		98							
720-90960-17	23:31	105		100							
720-90960-18	23:36	105		100							
CCV 720-261958/19	23:41	100		95							
CCB 720-261958/20	23:46	102		98							
720-90960-19	23:51	105		99							
720-90960-20	23:56	109		104							
720-90960-21	00:00	103		98							
720-90960-22	00:05	106		100							
720-90960-23	00:10	104		100							
720-90960-24	00:15	115		108							
720-90960-25	00:20	107		102							
720-90960-26	00:25	103		98							
720-90960-27	00:30	104		97							
720-90960-28	00:34	106		101							
CCV 720-261958/31	00:39	100		96							
CCB 720-261958/32	00:44	104		101							
720-90960-29	00:49	105		101							
CCV 720-261958/34	01:03	102		97							
CCB 720-261958/35	01:08	104		100							

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259153 Batch Start Date: 01/25/19 09:46 Batch Analyst: Sunahara, Megumi X

Batch Method: 3050B Batch End Date: 01/25/19 14:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cation 00197	MetCalSpike_s 00067	AnalysisComment	
MB 720-259153/1		3050B, 6010B		1 g	50 mL			weighed by: MS spiked by: MS	
LCS 720-259153/2		3050B, 6010B		1 g	50 mL	0.5 mL	0.5 mL	start time & temp: 946 1/25/19 @ 96.0 -0.4	
720-90956-A-9 MS		3050B, 6010B	T	1.11 g	50 mL	0.5 mL	0.5 mL	arcadis end time & temp: 1419 1/25/19 @ 97.0 -0.4	
720-90956-A-9 MSD		3050B, 6010B	T	1.11 g	50 mL	0.5 mL	0.5 mL	arcadis 1:1 nitric: 946 1/25/19	
720-90960-A-1	DG-AV12S-0.5-1	3050B, 6010B	T	1.38 g	50 mL			geosyntec	
720-90960-A-2	DG-AV12S-3.5-4	3050B, 6010B	T	1.43 g	50 mL			geosyntec	
720-90960-A-3	DG-AV12S-19.5-20	3050B, 6010B	T	1.67 g	50 mL			geosyntec	
720-90960-A-4	DG-AP14S-0.5-1	3050B, 6010B	T	1.70 g	50 mL			geosyntec	
720-90960-A-5	DG-AP14S-3.5-4	3050B, 6010B	T	1.11 g	50 mL			geosyntec	
720-90960-A-6	DG-AM14S-1-1.5	3050B, 6010B	T	1.33 g	50 mL			geosyntec	
720-90960-A-7	DG-AL14S-0.5-1	3050B, 6010B	T	1.25 g	50 mL			geosyntec	
720-90960-A-8	DG-AL14S-3.5-4	3050B, 6010B	T	1.40 g	50 mL			geosyntec	
720-90960-A-9	DG-AK14S-0.5-1	3050B, 6010B	T	1.45 g	50 mL			geosyntec	
720-90960-A-10	DG-AK14S-3.5-4	3050B, 6010B	T	1.07 g	50 mL			geosyntec	
720-90960-A-11	DG-AK16S-0.5-1	3050B, 6010B	T	1.13 g	50 mL			geosyntec	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259153 Batch Start Date: 01/25/19 09:46 Batch Analyst: Sunahara, Megumi X

Batch Method: 3050B Batch End Date: 01/25/19 14:19

Batch Notes	
Balance ID	sf-03
Blank Soil Lot Number	23228917
Temperature - Corrected - End	96.6 Degrees C
Temperature - Corrected - Start	95.6 Degrees C
Digestion Unit ID	3
Digestion Tube/Cup ID	315911-4503
Hydrogen Peroxide ID	2916877
Hydrochloric Acid ID	2961318
Nitric Acid ID	1:1 2985029; 2969877
Pipette/Syringe/Dispenser ID	R16265F
Thermometer ID	J91415
Temperature - Uncorrected - End	97.0 Degrees C
Temperature - Uncorrected - Start	96.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259167 Batch Start Date: 01/26/19 11:54 Batch Analyst: Alcantara, Michael A

Batch Method: 3050B Batch End Date: 01/26/19 14:57

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cation 00197	MetCalSpike_s 00067	AnalysisComment	
MB 720-259167/1		3050B, 6010B		1 g	50 mL			weighed by: MS spiked by: ma	
LCS 720-259167/2		3050B, 6010B		1 g	50 mL	0.5 mL	0.5 mL	start time & temp:1154 1/26/19 @ 95.4 +0.5	
720-90960-A-12 MS	DG-AK16S-3.5-4	3050B, 6010B	T	1.61 g	50 mL	0.5 mL	0.5 mL	geosyntec end time & temp: 1457 1/26/19 @ 96.3 +0.5	
720-90960-A-12 MSD	DG-AK16S-3.5-4	3050B, 6010B	T	1.61 g	50 mL	0.5 mL	0.5 mL	geosyntec 1:1 nitric: 1154 1/26/19	
720-90960-A-12	DG-AK16S-3.5-4	3050B, 6010B	T	1.62 g	50 mL			geosyntec 2nd nitric: 1209 1/26/19	
720-90960-A-13	DG-AL16S-0.5-1	3050B, 6010B	T	1.25 g	50 mL			geosyntec H2O2: 1412 1/26/19	
720-90960-A-14	DG-AL15S-1-1.5	3050B, 6010B	T	1.79 g	50 mL			geosyntec HCl: 1442 1/26/19	
720-90960-A-15	DG-AJ14S-0.5-1	3050B, 6010B	T	1.39 g	50 mL			geosyntec	
720-90960-A-16	DG-AJ14S-3.5-4	3050B, 6010B	T	1.98 g	50 mL			geosyntec	
720-90960-A-17	DG-AJ15S-0.5-1	3050B, 6010B	T	1.17 g	50 mL			geosyntec	
720-90960-A-18	DG-AJ15S-3.5-4	3050B, 6010B	T	1.29 g	50 mL			geosyntec	
720-90960-A-19	DG-AI16S-1-1.5	3050B, 6010B	T	1.55 g	50 mL			geosyntec	
720-90960-A-20	DG-AI17S-0.5-1	3050B, 6010B	T	1.18 g	50 mL			geosyntec	
720-90960-A-21	DG-AI17S-3.5-4	3050B, 6010B	T	1.16 g	50 mL			geosyntec	
720-90960-A-22	DG-AH15S-0.5-1	3050B, 6010B	T	1.31 g	50 mL			geosyntec	
720-90960-A-23	DG-AH16S-0.5-1	3050B, 6010B	T	1.10 g	50 mL			geosyntec	
720-90960-A-24	DG-AH16S-3.5-4	3050B, 6010B	T	1.81 g	50 mL			geosyntec	
720-90960-A-25	DUP-104	3050B, 6010B	T	1.64 g	50 mL			geosyntec	
720-90960-A-26	DUP-103	3050B, 6010B	T	1.30 g	50 mL			geosyntec	
720-90960-A-27	DUP-120	3050B, 6010B	T	1.63 g	50 mL			geosyntec	
720-90960-A-28	DG-AG16S-0.5-1	3050B, 6010B	T	1.56 g	50 mL			geosyntec	
720-90960-A-29	DG-AG16S-3.5-4	3050B, 6010B	T	1.39 g	50 mL			geosyntec	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259167 Batch Start Date: 01/26/19 11:54 Batch Analyst: Alcantara, Michael A

Batch Method: 3050B Batch End Date: 01/26/19 14:57

Batch Notes	
Balance ID	sf-03
Blank Soil Lot Number	23228917
Temperature - Corrected - End	96.8 Degrees C
Temperature - Corrected - Start	95.9 Degrees C
Digestion Unit ID	4
Digestion Tube/Cup ID	315911-4503
Hydrogen Peroxide ID	2916877
Hydrochloric Acid ID	2961318
Nitric Acid ID	1:1 2985029; 2969877
Pipette/Syringe/Dispenser ID	R16265F
Thermometer ID	LOL-995
Temperature - Uncorrected - End	96.3 Degrees C
Temperature - Uncorrected - Start	95.4 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259152 Batch Start Date: 01/30/19 10:38 Batch Analyst: Alcantara, Michael A

Batch Method: 7471A Batch End Date: 01/30/19 11:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	S Hg ICV 01698	AnalysisComment		
MB 720-259152/1		7471A, 7471A		0.6 g	50 mL		weighed by: MS spiked by: ma		
LCS 720-259152/2		7471A, 7471A		0.6 g	50 mL	2 mL	start time & temp: 1038 1/30/19 @ 92.0 +0.5		
720-90960-A-1	DG-AV12S-0.5-1	7471A, 7471A	T	0.61 g	50 mL		geosyntec		
720-90960-A-2	DG-AV12S-3.5-4	7471A, 7471A	T	0.64 g	50 mL		geosyntec		
720-90960-A-3	DG-AV12S-19.5-20	7471A, 7471A	T	0.68 g	50 mL		geosyntec		
720-90960-A-4	DG-AP14S-0.5-1	7471A, 7471A	T	0.70 g	50 mL		geosyntec		
720-90960-A-5	DG-AP14S-3.5-4	7471A, 7471A	T	0.65 g	50 mL		geosyntec		
720-90960-A-6	DG-AM14S-1-1.5	7471A, 7471A	T	0.64 g	50 mL		geosyntec		
720-90960-A-7	DG-AL14S-0.5-1	7471A, 7471A	T	0.66 g	50 mL		geosyntec		
720-90960-A-8	DG-AL14S-3.5-4	7471A, 7471A	T	0.71 g	50 mL		geosyntec		
720-90960-A-9	DG-AK14S-0.5-1	7471A, 7471A	T	0.62 g	50 mL		geosyntec		
720-90960-A-10	DG-AK14S-3.5-4	7471A, 7471A	T	0.65 g	50 mL		geosyntec		
720-90960-A-11	DG-AK16S-0.5-1	7471A, 7471A	T	0.66 g	50 mL		geosyntec		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259152 Batch Start Date: 01/30/19 10:38 Batch Analyst: Alcantara, Michael A

Batch Method: 7471A Batch End Date: 01/30/19 11:08

Batch Notes	
Balance ID	sf-03
Blank Matrix ID	23228917
Temperature - Corrected - End	92.5 Degrees C
Temperature - Corrected - Start	92.5 Degrees C
Digestion End Time	01/30/2019 11:08
Digestion Start Time	01/30/2019 10:38
Digestion Unit ID	5
Hydrochloric Acid ID	aqua regia: 2991235
Hydroxylamine ID	2984181
Potassium Permanganate ID	2984425
Pipette/Syringe/Dispenser ID	H35472H
Thermometer ID	J91865
Digestion Tube/Cup ID	315911-4503
Temperature - Uncorrected - End	92.0 Degrees C
Temperature - Uncorrected - Start	92.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259166 Batch Start Date: 01/30/19 10:38 Batch Analyst: Alcantara, Michael A

Batch Method: 7471A Batch End Date: 01/30/19 11:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	S Hg ICV 01698	AnalysisComment		
MB 720-259166/1		7471A, 7471A		0.6 g	50 mL		weighed by: MS spiked by: ma		
LCS 720-259166/2		7471A, 7471A		0.6 g	50 mL	2 mL	start time & temp: 1038 1/30/19 @ 92.0 +0.5		
720-90960-A-12 MS	DG-AK16S-3.5-4	7471A, 7471A	T	0.63 g	50 mL	2 mL	geosyntec end time & temp: 1108 1/30/19 @ 92.0 +0.5		
720-90960-A-12 MSD	DG-AK16S-3.5-4	7471A, 7471A	T	0.62 g	50 mL	2 mL	geosyntec curve batch: 259454		
720-90960-A-12	DG-AK16S-3.5-4	7471A, 7471A	T	0.62 g	50 mL		geosyntec		
720-90960-A-13	DG-AL16S-0.5-1	7471A, 7471A	T	0.61 g	50 mL		geosyntec		
720-90960-A-14	DG-AL15S-1-1.5	7471A, 7471A	T	0.71 g	50 mL		geosyntec		
720-90960-A-15	DG-AJ14S-0.5-1	7471A, 7471A	T	0.71 g	50 mL		geosyntec		
720-90960-A-16	DG-AJ14S-3.5-4	7471A, 7471A	T	0.64 g	50 mL		geosyntec		
720-90960-A-17	DG-AJ15S-0.5-1	7471A, 7471A	T	0.70 g	50 mL		geosyntec		
720-90960-A-18	DG-AJ15S-3.5-4	7471A, 7471A	T	0.71 g	50 mL		geosyntec		
720-90960-A-19	DG-AI16S-1-1.5	7471A, 7471A	T	0.68 g	50 mL		geosyntec		
720-90960-A-20	DG-AI17S-0.5-1	7471A, 7471A	T	0.70 g	50 mL		geosyntec		
720-90960-A-21	DG-AI17S-3.5-4	7471A, 7471A	T	0.69 g	50 mL		geosyntec		
720-90960-A-22	DG-AH15S-0.5-1	7471A, 7471A	T	0.62 g	50 mL		geosyntec		
720-90960-A-23	DG-AH16S-0.5-1	7471A, 7471A	T	0.67 g	50 mL		geosyntec		
720-90960-A-24	DG-AH16S-3.5-4	7471A, 7471A	T	0.67 g	50 mL		geosyntec		
720-90960-A-25	DUP-104	7471A, 7471A	T	0.65 g	50 mL		geosyntec		
720-90960-A-26	DUP-103	7471A, 7471A	T	0.61 g	50 mL		geosyntec		
720-90960-A-27	DUP-120	7471A, 7471A	T	0.72 g	50 mL		geosyntec		
720-90960-A-28	DG-AG16S-0.5-1	7471A, 7471A	T	0.62 g	50 mL		geosyntec		
720-90960-A-29	DG-AG16S-3.5-4	7471A, 7471A	T	0.69 g	50 mL		geosyntec		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259166 Batch Start Date: 01/30/19 10:38 Batch Analyst: Alcantara, Michael A

Batch Method: 7471A Batch End Date: 01/30/19 11:08

Batch Notes	
Balance ID	sf-03
Blank Matrix ID	23228917
Temperature - Corrected - End	92.5 Degrees C
Temperature - Corrected - Start	92.5 Degrees C
Digestion End Time	01/30/2019 11:08
Digestion Start Time	01/30/2019 10:38
Digestion Unit ID	5
Hydrochloric Acid ID	aqua regia: 2991235
Hydroxylamine ID	2984181
Potassium Permanganate ID	2984425
Pipette/Syringe/Dispenser ID	H35472H
Thermometer ID	J91865
Digestion Tube/Cup ID	315911-4503
Temperature - Uncorrected - End	92.0 Degrees C
Temperature - Uncorrected - Start	92.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Sample Report

Author:

Published: 2/1/2019 12:48:19PM

Notes:

Blank

Acquire Date: 2/1/2019 8:46:03AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		46.15	Cts/S	16.76	36.31
Al3961		-6.464	Cts/S	0.8253	12.77
As1890		1.686	Cts/S	1.282	76.06
Au2427		2.975	Cts/S	4.702	158.1
B_2089		-0.0001200	Cts/S	0.0001880	157.3
Ba4934		61.16	Cts/S	0.6588	1.077
Be3130		-2.861	Cts/S	0.5854	20.47
Ca3179		18.06	Cts/S	1.084	6.002
Cd2144		0.06722	Cts/S	0.07083	105.4
Co2286		2.827	Cts/S	0.6190	21.89
Cr2677		-0.8000	Cts/S	5.052	631.5
Cu327.39		6.300	Cts/S	11.17	177.3
Fe2395		-0.8062	Cts/S	1.812	224.8
K7694		0.04928	Cts/S	0.0007340	1.490
Mg2790		-1.861	Cts/S	1.784	95.85
Mn2576		27.63	Cts/S	4.419	16.00
Mo2020		-2.028	Cts/S	0.9347	46.08
Na5895		1.506	Cts/S	0.01884	1.251
Ni2316		-0.6223	Cts/S	1.587	255.0
Pb2203		-0.8096	Cts/S	0.03865	4.773
Sb2068		-0.8124	Cts/S	0.8096	99.66
Se1960		-1.945	Cts/S	0.2908	14.95
Si2124		0.004774	Cts/S	0.00007500	1.578
Sn1899		4.536	Cts/S	0.2421	5.338
Sr4077		-0.2530	Cts/S	1.039	410.7
Ti3361		0.000003000	Cts/S	0.000002000	79.22
Tl1908		1.207	Cts/S	0.2327	19.28
V2924		3.200	Cts/S	4.879	152.5
Zn2062		11.63	Cts/S	1.623	13.96
Y371.030		10,415	Cts/S	15.572	0.14952
Y029A		289,170	Cts/S	1,477.3	0.51086
Y029R		2,831.3	Cts/S	32.816	1.1590

CAL STD.

Acquire Date: 2/1/2019 8:51:00AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5,950	Cts/S	0.1060	0.001782
Al3961		1,713	Cts/S	11.87	0.6928
As1890		293.3	Cts/S	1.145	0.3903

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

CAL STD.

Acquire Date: 2/1/2019 8:51:00AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Au2427		14.37	Cts/S	2.793	19.43
B_2089		0.1631	Cts/S	0.0003320	0.2036
Ba4934		6,375	Cts/S	54.32	0.8521
Be3130		3,948	Cts/S	29.32	0.7426
Ca3179		2,471	Cts/S	32.50	1.315
Cd2144		12,350	Cts/S	51.09	0.4137
Co2286		4,915	Cts/S	17.47	0.3555
Cr2677		9,306	Cts/S	23.18	0.2491
Cu327.39		8,356	Cts/S	53.02	0.6346
Fe2395		627.5	Cts/S	4.575	0.7291
K7694		0.6258	Cts/S	0.001523	0.2434
Mg2790		207.3	Cts/S	3.249	1.568
Mn2576		43,160	Cts/S	212.8	0.4930
Mo2020		1,914	Cts/S	0.7131	0.03726
Na5895		6.247	Cts/S	0.08404	1.345
Ni2316		3,388	Cts/S	5.257	0.1552
Pb2203		861.5	Cts/S	0.7852	0.09114
Sb2068		401.6	Cts/S	2.162	0.5383
Se1960		207.1	Cts/S	2.073	1.001
Si2124		1.886	Cts/S	0.03689	1.956
Sn1899		910.9	Cts/S	3.848	0.4225
Sr4077		6,885	Cts/S	62.53	0.9082
Ti3361		0.001698	Cts/S	0.00005100	2.984
Tl1908		92.14	Cts/S	1.987	2.157
V2924		14,520	Cts/S	61.05	0.4204
Zn2062		6,247	Cts/S	22.24	0.3560
Y371.030		9,243.3	Cts/S	19.885	0.21513
Y029A		256,990	Cts/S	3,554.0	1.3829
Y029R		2,485.9	Cts/S	43.454	1.7480

STD 1

Acquire Date: 2/1/2019 8:55:56AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.5044	ppm	0.005034	0.9980	.5000	Rel(%)	Pass	
Al3961		20.31	ppm	0.08960	0.4412	20.00	Rel(%)	Pass	
As1890		1.032	ppm	0.002635	0.2555	1.000	Rel(%)	Pass	
Au2427	**F**	**0.8013**	**ppm**	**0.6703**	**83.66**	**1.000**	**Rel(%)**	**Fail Low**	**-5.000**
B_2089		1.014	ppm	0.0006090	0.06002	1.000	Rel(%)	Pass	
Ba4934		1.020	ppm	0.006181	0.6059	1.000	Rel(%)	Pass	
Be3130		1.025	ppm	0.009416	0.9182	1.000	Rel(%)	Pass	
Ca3179		20.54	ppm	0.1068	0.5202	20.00	Rel(%)	Pass	
Cd2144		1.027	ppm	0.001473	0.1434	1.000	Rel(%)	Pass	
Co2286		1.021	ppm	0.002198	0.2153	1.000	Rel(%)	Pass	
Cr2677		1.022	ppm	0.007532	0.7371	1.000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

STD 1

Acquire Date: 2/1/2019 8:55:56AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Cu327.39		1.013	ppm	0.01482	1.463	1.000	Rel(%)	Pass	
Fe2395		20.19	ppm	0.04361	0.2160	20.00	Rel(%)	Pass	
K7694		20.23	ppm	0.1574	0.7781	20.00	Rel(%)	Pass	
Mg2790		20.73	ppm	0.2019	0.9743	20.00	Rel(%)	Pass	
Mn2576		1.020	ppm	0.01044	1.023	1.000	Rel(%)	Pass	
Mo2020		1.026	ppm	0.001511	0.1474	1.000	Rel(%)	Pass	
Na5895		20.00	ppm	0.2130	1.065	20.00	Rel(%)	Pass	
Ni2316		1.025	ppm	0.001062	0.1036	1.000	Rel(%)	Pass	
Pb2203		1.027	ppm	0.004260	0.4146	1.000	Rel(%)	Pass	
Sb2068		1.023	ppm	0.006085	0.5949	1.000	Rel(%)	Pass	
Se1960		1.036	ppm	0.008407	0.8118	1.000	Rel(%)	Pass	
Si2124		10.14	ppm	0.1089	1.074	10.00	Rel(%)	Pass	
Sn1899		1.027	ppm	0.004491	0.4374	1.000	Rel(%)	Pass	
Sr4077		1.017	ppm	0.003966	0.3901	1.000	Rel(%)	Pass	
Ti3361		1.001	ppm	0.006318	0.6313	1.000	Rel(%)	Pass	
Tl1908		1.025	ppm	0.01763	1.721	1.000	Rel(%)	Pass	
V2924		1.013	ppm	0.003504	0.3458	1.000	Rel(%)	Pass	
Zn2062		1.031	ppm	0.002216	0.2149	1.000	Rel(%)	Pass	
Y371.030		9,334.2	Cts/S	21.133	0.22640				
Y029A		261,750	Cts/S	882.78	0.33726				
Y029R		2,514.5	Cts/S	33.000	1.3124				

ICV/CCV

Acquire Date: 2/1/2019 9:00:39AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2523	ppm	0.0003220	0.1277	.2500	Rel(%)	Pass	
Al3961		14.54	ppm	0.06544	0.4500	15.00	Rel(%)	Pass	
As1890		0.5074	ppm	0.005514	1.087	.5000	Rel(%)	Pass	
Au2427		74.74	ppm	2.391	3.200				
B_2089	**W**	**0.4584**	**ppm**	**0.001107**	**0.2415**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ba4934		0.5065	ppm	0.001048	0.2069	.5000	Rel(%)	Pass	
Be3130		0.5112	ppm	0.001832	0.3584	.5000	Rel(%)	Pass	
Ca3179		15.42	ppm	0.1374	0.8911	15.00	Rel(%)	Pass	
Cd2144		0.5088	ppm	0.0009060	0.1781	.5000	Rel(%)	Pass	
Co2286		0.5070	ppm	0.0005240	0.1033	.5000	Rel(%)	Pass	
Cr2677		0.5032	ppm	0.002068	0.4109	.5000	Rel(%)	Pass	
Cu327.39		0.4996	ppm	0.002668	0.5340	.5000	Rel(%)	Pass	
Fe2395		15.03	ppm	0.05688	0.3785	15.00	Rel(%)	Pass	
K7694	**F**	**13.44**	**ppm**	**0.05609**	**0.4175**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mg2790		15.73	ppm	0.3586	2.280	15.00	Rel(%)	Pass	
Mn2576		0.4956	ppm	0.003850	0.7769	.5000	Rel(%)	Pass	
Mo2020		0.5055	ppm	0.001695	0.3353	.5000	Rel(%)	Pass	
Na5895	**F**	**12.95**	**ppm**	**0.1703**	**1.315**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Ni2316		0.5024	ppm	0.002663	0.5301	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 9:00:39AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Pb2203		0.5086	ppm	0.002819	0.5543	.5000	Rel(%)	Pass	
Sb2068		0.4991	ppm	0.001800	0.3606	.5000	Rel(%)	Pass	
Se1960		0.5077	ppm	0.001438	0.2832	.5000	Rel(%)	Pass	
Si2124		0.4537	ppm	0.002659	0.5861				
Sn1899		0.5080	ppm	0.003376	0.6647	.5000	Rel(%)	Pass	
Sr4077		0.5009	ppm	0.0009130	0.1823	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.4616**	**ppm**	**0.01260**	**2.729**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Tl1908	**W**	**0.5397**	**ppm**	**0.01639**	**3.036**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.5055	ppm	0.001407	0.2784	.5000	Rel(%)	Pass	
Zn2062		0.5099	ppm	0.002104	0.4128	.5000	Rel(%)	Pass	
Y371.030		10,077	Cts/S	4.6274	0.045919				
Y029A		282,370	Cts/S	3,256.5	1.1533				
Y029R		2,752.8	Cts/S	25.394	0.92250				

ICB/CCB

Acquire Date: 2/1/2019 9:05:26AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001040	ppm	0.0002370	22.75	.0000	Abs	Pass	
Al3961		0.01226	ppm	0.04235	345.4	.0000	Abs	Pass	
As1890		0.00001100	ppm	0.0002380	2,245	.0000	Abs	Pass	
Au2427		1.521	ppm	0.1705	11.21				
B_2089		0.0006000	ppm	0.0006220	103.8	.0000	Abs	Pass	
Ba4934		-0.0004850	ppm	0.0005860	120.9	.0000	Abs	Pass	
Be3130		0.0002180	ppm	0.0005000	228.9	.0000	Abs	Pass	
Ca3179		-0.01124	ppm	0.003547	31.56	.0000	Abs	Pass	
Cd2144		0.000001000	ppm	0.0001210	9,839	.0000	Abs	Pass	
Co2286		0.0002590	ppm	0.0001670	64.66	.0000	Abs	Pass	
Cr2677		0.0005640	ppm	0.00009900	17.47	.0000	Abs	Pass	
Cu327.39		-0.0007070	ppm	0.001178	166.6	.0000	Abs	Pass	
Fe2395		0.02185	ppm	0.006024	27.57	.0000	Abs	Pass	
K7694		-0.04494	ppm	0.1262	280.8	.0000	Abs	Pass	
Mg2790		0.006194	ppm	0.01147	185.2	.0000	Abs	Pass	
Mn2576		-0.00003200	ppm	0.00004300	134.4	.0000	Abs	Pass	
Mo2020		0.0008760	ppm	0.0003340	38.14	.0000	Abs	Pass	
Na5895		0.1407	ppm	0.09664	68.69	.0000	Abs	Pass	
Ni2316		-0.0004390	ppm	0.0003330	75.82	.0000	Abs	Pass	
Pb2203		0.003434	ppm	0.0008640	25.15	.0000	Abs	Pass	
Sb2068		0.0008470	ppm	0.002050	242.0	.0000	Abs	Pass	
Se1960		-0.001417	ppm	0.001456	102.8	.0000	Abs	Pass	
Si2124		-0.004686	ppm	0.0006820	14.56				
Sn1899		0.0002390	ppm	0.0003620	151.5	.0000	Abs	Pass	
Sr4077		-0.0001010	ppm	0.0001160	114.6	.0000	Abs	Pass	
Ti3361		0.003715	ppm	0.002947	79.32	.0000	Abs	Pass	
Tl1908		0.005000	ppm	0.005904	118.1	.0000	Abs	Pass	
V2924		0.0001350	ppm	0.0004420	326.5	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 9:05:26AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Zn2062		-0.0001910	ppm	0.0000	0.1518	.0000	Abs	Pass	
Y371.030		10,117	Cts/S	20.427	0.20191				
Y029A		286,450	Cts/S	199.98	0.069813				
Y029R		2,727.3	Cts/S	38.438	1.4094				

CRI

Acquire Date: 2/1/2019 9:10:24AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.01069	ppm	0.0004160	3.896	.0100	Abs	Pass	
Al3961		0.4160	ppm	0.01318	3.169	.4000	Abs	Pass	
As1890		0.009717	ppm	0.001413	14.54	.0100	Abs	Pass	
Au2427		3.163	ppm	0.3595	11.37				
B_2089	**F**	**0.1508**	**ppm**	**0.0003910**	**0.2593**	**.1000**	**Abs**	**Fail High**	**.1500**
Ba4934		0.009810	ppm	0.0003520	3.588	.0100	Abs	Pass	
Be3130		0.004219	ppm	0.0001060	2.502	.0040	Abs	Pass	
Ca3179		0.4191	ppm	0.006754	1.612	.4000	Abs	Pass	
Cd2144		0.004244	ppm	0.00004000	0.9448	.0040	Abs	Pass	
Co2286		0.004531	ppm	0.0001170	2.582	.0040	Abs	Pass	
Cr2677		0.02081	ppm	0.0005450	2.618	.0200	Abs	Pass	
Cu327.39		0.04203	ppm	0.001081	2.571	.0400	Abs	Pass	
Fe2395		0.6298	ppm	0.003598	0.5713	.6000	Abs	Pass	
K7694		1.952	ppm	0.06016	3.082	2.000	Abs	Pass	
Mg2790		0.3773	ppm	0.03130	8.295	.4000	Abs	Pass	
Mn2576		0.04156	ppm	0.0002420	0.5813	.0400	Abs	Pass	
Mo2020		0.02119	ppm	0.00003100	0.1487	.0200	Abs	Pass	
Na5895		1.319	ppm	0.07007	5.313	1.000	Abs	Pass	
Ni2316		0.02038	ppm	0.0007840	3.846	.0200	Abs	Pass	
Pb2203		0.01243	ppm	0.001686	13.57	.0100	Abs	Pass	
Sb2068		0.02167	ppm	0.0002560	1.183	.0200	Abs	Pass	
Se1960		0.03912	ppm	0.001880	4.804	.0400	Abs	Pass	
Si2124		1.003	ppm	0.01670	1.666				
Sn1899		0.02158	ppm	0.0004530	2.098	.0200	Abs	Pass	
Sr4077		0.01018	ppm	0.0006350	6.232	.0100	Abs	Pass	
Ti3361		0.02113	ppm	0.006334	29.97	.0200	Abs	Pass	
Tl1908		0.02084	ppm	0.009188	44.10	.0200	Abs	Pass	
V2924		0.02135	ppm	0.0001400	0.6547	.0200	Abs	Pass	
Zn2062		0.04121	ppm	0.0002660	0.6443	.0400	Abs	Pass	
Y371.030		9,728.8	Cts/S	57.132	0.58725				
Y029A		274,350	Cts/S	3,488.5	1.2715				
Y029R		2,631.4	Cts/S	31.842	1.2101				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSA

Acquire Date: 2/1/2019 9:15:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001218	ppm	0.0001860	15.29	.0000	Abs	Pass	
Al3961		498.4	ppm	5.011	1.005	500.0	Abs	Pass	
As1890		0.004013	ppm	0.001532	38.19	.0000	Abs	Pass	
Au2427		24.48	ppm	0.5899	2.410				
B_2089		-0.01386	ppm	0.003457	24.95				
Ba4934		-0.001312	ppm	0.0002910	22.19	.0000	Abs	Pass	
Be3130		-0.0004470	ppm	0.0002520	56.47	.0000	Abs	Pass	
Ca3179		532.4	ppm	4.983	0.9359	500.0	Abs	Pass	
Cd2144		0.000002000	ppm	0.00009000	5,877	.0000	Abs	Pass	
Co2286		-0.001078	ppm	0.00002200	1.997	.0000	Abs	Pass	
Cr2677		0.006838	ppm	0.0009560	13.99	.0000	Abs	Pass	
Cu327.39		-0.01070	ppm	0.0001820	1.699	.0000	Abs	Pass	
Fe2395		508.4	ppm	6.196	1.219	500.0	Abs	Pass	
K7694		1.159	ppm	0.04672	4.029	.0000	Abs	Pass	
Mg2790		525.8	ppm	1.984	0.3772	500.0	Abs	Pass	
Mn2576		0.01609	ppm	0.00001900	0.1189	.0000	Abs	Pass	
Mo2020		-0.001658	ppm	0.0001250	7.545	.0000	Abs	Pass	
Na5895		2.045	ppm	0.01756	0.8588	.0000	Abs	Pass	
Ni2316		-0.0005550	ppm	0.00007100	12.71	.0000	Abs	Pass	
Pb2203		-0.003954	ppm	0.002528	63.95	.0000	Abs	Pass	
Sb2068		0.008348	ppm	0.001117	13.37	.0000	Abs	Pass	
Se1960		-0.0004920	ppm	0.002375	483.2	.0000	Abs	Pass	
Si2124		0.03834	ppm	0.0009150	2.388				
Sn1899		-0.005378	ppm	0.0003480	6.464	.0000	Abs	Pass	
Sr4077		0.001355	ppm	0.00008300	6.144	.0000	Abs	Pass	
Ti3361		0.01732	ppm	0.007571	43.72	.0000	Abs	Pass	
Tl1908		0.004116	ppm	0.008463	205.6	.0000	Abs	Pass	
V2924		0.001661	ppm	0.00005300	3.216	.0000	Abs	Pass	
Zn2062		0.007149	ppm	0.0006980	9.767	.0000	Abs	Pass	
Y371.030		6,669.6	Cts/S	46.543	0.69785				
Y029A		189,790	Cts/S	437.72	0.23063				
Y029R		1,982.1	Cts/S	1.0095	0.050930				

ICSAB

Acquire Date: 2/1/2019 9:20:05AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.1326	ppm	0.001385	1.044	.1250	Rel(%)	Pass	
Al3961		500.8	ppm	4.071	0.8130	500.0	Rel(%)	Pass	
As1890		0.2666	ppm	0.006139	2.302	.2500	Rel(%)	Pass	
Au2427		24.62	ppm	0.4277	1.737				
B_2089		0.3411	ppm	0.0003890	0.1139				
Ba4934		0.2830	ppm	0.004015	1.419	.2500	Rel(%)	Pass	
Be3130		0.2794	ppm	0.0007880	0.2820	.2500	Rel(%)	Pass	
Ca3179		531.4	ppm	3.941	0.7416	500.0	Rel(%)	Pass	
Cd2144		0.2407	ppm	0.0001530	0.06354	.2500	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSAB

Acquire Date: 2/1/2019 9:20:05AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Co2286		0.2408	ppm	0.0006640	0.2756	.2500	Rel(%)	Pass	
Cr2677		0.2600	ppm	0.001318	0.5068	.2500	Rel(%)	Pass	
Cu327.39		0.2627	ppm	0.001879	0.7154	.2500	Rel(%)	Pass	
Fe2395		506.7	ppm	3.632	0.7168	500.0	Rel(%)	Pass	
K7694		0.7137	ppm	0.05988	8.389				
Mg2790		523.7	ppm	1.685	0.3218	500.0	Rel(%)	Pass	
Mn2576		0.2638	ppm	0.0009250	0.3509	.2500	Rel(%)	Pass	
Mo2020		0.2550	ppm	0.0004120	0.1617	.2500	Rel(%)	Pass	
Na5895		2.412	ppm	0.02547	1.056				
Ni2316		0.2360	ppm	0.001446	0.6129	.2500	Rel(%)	Pass	
Pb2203		0.2307	ppm	0.003512	1.522	.2500	Rel(%)	Pass	
Sb2068		0.2637	ppm	0.002303	0.8733	.2500	Rel(%)	Pass	
Se1960		0.2426	ppm	0.005405	2.228	.2500	Rel(%)	Pass	
Si2124		0.3802	ppm	0.0008860	0.2331				
Sn1899		0.2383	ppm	0.0005440	0.2281	.2500	Rel(%)	Pass	
Sr4077		0.2810	ppm	0.003226	1.148	.2500	Rel(%)	Pass	
Ti3361	**F**	**0.3904**	**ppm**	**0.004784**	**1.225**	**.2500**	**Rel(%)**	**Fail High**	**20.00**
Tl1908		0.2201	ppm	0.003151	1.432	.2500	Rel(%)	Pass	
V2924		0.2635	ppm	0.001933	0.7335	.2500	Rel(%)	Pass	
Zn2062		0.2457	ppm	0.0006450	0.2626	.2500	Rel(%)	Pass	
Y371.030		6,511.1	Cts/S	10.212	0.15684				
Y029A		187,830	Cts/S	2,949.2	1.5701				
Y029R		1,921.6	Cts/S	5.5151	0.28701				

ICV/CCV

Acquire Date: 2/1/2019 9:24:43AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2494	ppm	0.0003060	0.1229	.2500	Rel(%)	Pass	
Al3961		14.74	ppm	0.1237	0.8392	15.00	Rel(%)	Pass	
As1890		0.5094	ppm	0.005605	1.100	.5000	Rel(%)	Pass	
Au2427		73.92	ppm	1.191	1.611				
B_2089		0.4840	ppm	0.003216	0.6645	.5000	Rel(%)	Pass	
Ba4934		0.5026	ppm	0.002902	0.5774	.5000	Rel(%)	Pass	
Be3130		0.5058	ppm	0.0007950	0.1572	.5000	Rel(%)	Pass	
Ca3179		15.52	ppm	0.05810	0.3743	15.00	Rel(%)	Pass	
Cd2144		0.5095	ppm	0.002836	0.5566	.5000	Rel(%)	Pass	
Co2286		0.5121	ppm	0.002258	0.4409	.5000	Rel(%)	Pass	
Cr2677		0.5040	ppm	0.001831	0.3632	.5000	Rel(%)	Pass	
Cu327.39		0.5099	ppm	0.003993	0.7832	.5000	Rel(%)	Pass	
Fe2395		15.37	ppm	0.1391	0.9051	15.00	Rel(%)	Pass	
K7694		14.30	ppm	0.3052	2.134	15.00	Rel(%)	Pass	
Mg2790		15.49	ppm	0.09207	0.5944	15.00	Rel(%)	Pass	
Mn2576		0.4994	ppm	0.004432	0.8874	.5000	Rel(%)	Pass	
Mo2020		0.5097	ppm	0.003307	0.6489	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 9:24:43AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Na5895		14.43	ppm	0.05966	0.4134	15.00	Rel(%)	Pass	
Ni2316		0.5033	ppm	0.0009200	0.1829	.5000	Rel(%)	Pass	
Pb2203		0.5098	ppm	0.003603	0.7067	.5000	Rel(%)	Pass	
Sb2068		0.4990	ppm	0.0004400	0.08826	.5000	Rel(%)	Pass	
Se1960		0.5076	ppm	0.001225	0.2413	.5000	Rel(%)	Pass	
Si2124		0.4882	ppm	0.007594	1.555				
Sn1899		0.5075	ppm	0.001566	0.3086	.5000	Rel(%)	Pass	
Sr4077		0.4999	ppm	0.002612	0.5226	.5000	Rel(%)	Pass	
Ti3361		0.4797	ppm	0.01821	3.796	.5000	Rel(%)	Pass	
Tl1908	**F**	**0.5615**	**ppm**	**0.0006310**	**0.1124**	**.5000**	**Rel(%)**	**Fail High**	**10.00**
V2924		0.5080	ppm	0.00002200	0.004411	.5000	Rel(%)	Pass	
Zn2062		0.5100	ppm	0.001580	0.3098	.5000	Rel(%)	Pass	
Y371.030		9,487.3	Cts/S	45.707	0.48177				
Y029A		265,500	Cts/S	2,430.2	0.91534				
Y029R		2,547.0	Cts/S	7.2185	0.28341				

ICB/CCB

Acquire Date: 2/1/2019 9:29:29AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001093	ppm	0.00001800	1.645	.0000	Abs	Pass	
Al3961		0.1011	ppm	0.008839	8.746	.0000	Abs	Pass	
As1890		-0.002008	ppm	0.003260	162.4	.0000	Abs	Pass	
Au2427		1.449	ppm	0.4029	27.81				
B_2089		0.0007220	ppm	0.00001500	2.103	.0000	Abs	Pass	
Ba4934		-0.0003510	ppm	0.0004750	135.5	.0000	Abs	Pass	
Be3130		0.0002880	ppm	0.0007090	246.3	.0000	Abs	Pass	
Ca3179		0.03760	ppm	0.0001040	0.2775	.0000	Abs	Pass	
Cd2144		0.00003100	ppm	0.00005200	168.3	.0000	Abs	Pass	
Co2286		0.0001200	ppm	0.0002210	184.0	.0000	Abs	Pass	
Cr2677		0.0001970	ppm	0.0002960	150.3	.0000	Abs	Pass	
Cu327.39		0.00008300	ppm	0.0002790	337.9	.0000	Abs	Pass	
Fe2395		0.07470	ppm	0.01687	22.58	.0000	Abs	Pass	
K7694		0.008472	ppm	0.03517	415.1	.0000	Abs	Pass	
Mg2790		-0.1235	ppm	0.04701	38.08	.0000	Abs	Pass	
Mn2576		0.00008300	ppm	0.00007200	87.10	.0000	Abs	Pass	
Mo2020		0.001034	ppm	0.0003500	33.84	.0000	Abs	Pass	
Na5895		-0.07518	ppm	0.008806	11.71	.0000	Abs	Pass	
Ni2316		-0.0004840	ppm	0.0005400	111.5	.0000	Abs	Pass	
Pb2203		0.002081	ppm	0.00005600	2.672	.0000	Abs	Pass	
Sb2068		0.004428	ppm	0.0009910	22.37	.0000	Abs	Pass	
Se1960		-0.002183	ppm	0.001196	54.77	.0000	Abs	Pass	
Si2124		-0.006539	ppm	0.001169	17.88				
Sn1899		-0.001025	ppm	0.0008260	80.62	.0000	Abs	Pass	
Sr4077		0.0002620	ppm	0.0003160	120.6	.0000	Abs	Pass	
Ti3361		0.002474	ppm	0.003399	137.4	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 9:29:29AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Tl1908	**F**	**0.01036**	**ppm**	**0.008649**	**83.51**	**.0000**	**Abs**	**Fail High**	**.0100**
V2924		0.0002910	ppm	0.0003310	113.7	.0000	Abs	Pass	
Zn2062		-0.0001240	ppm	0.0001940	157.0	.0000	Abs	Pass	
Y371.030		10,404	Cts/S	43.463	0.41776				
Y029A		293,230	Cts/S	844.04	0.28784				
Y029R		2,799.2	Cts/S	11.307	0.40392				

ICV/CCV

Acquire Date: 2/1/2019 9:34:27AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2590	ppm	0.002025	0.7818	.2500	Rel(%)	Pass	
Al3961		14.74	ppm	0.04022	0.2728	15.00	Rel(%)	Pass	
As1890		0.5202	ppm	0.0006970	0.1340	.5000	Rel(%)	Pass	
Au2427		77.48	ppm	2.650	3.420				
B_2089		0.4938	ppm	0.002191	0.4437	.5000	Rel(%)	Pass	
Ba4934		0.5138	ppm	0.003244	0.6314	.5000	Rel(%)	Pass	
Be3130		0.5199	ppm	0.001302	0.2505	.5000	Rel(%)	Pass	
Ca3179		15.59	ppm	0.006615	0.04243	15.00	Rel(%)	Pass	
Cd2144		0.5231	ppm	0.0003830	0.07314	.5000	Rel(%)	Pass	
Co2286		0.5204	ppm	0.0008940	0.1718	.5000	Rel(%)	Pass	
Cr2677		0.5211	ppm	0.002845	0.5459	.5000	Rel(%)	Pass	
Cu327.39		0.5177	ppm	0.0004220	0.08159	.5000	Rel(%)	Pass	
Fe2395		15.25	ppm	0.2532	1.660	15.00	Rel(%)	Pass	
K7694		14.73	ppm	0.3334	2.263	15.00	Rel(%)	Pass	
Mg2790	**W**	**16.09**	**ppm**	**0.1473**	**0.9157**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mn2576		0.5108	ppm	0.003137	0.6142	.5000	Rel(%)	Pass	
Mo2020		0.5191	ppm	0.001113	0.2144	.5000	Rel(%)	Pass	
Na5895		14.37	ppm	0.03043	0.2118	15.00	Rel(%)	Pass	
Ni2316		0.5157	ppm	0.0005940	0.1151	.5000	Rel(%)	Pass	
Pb2203		0.5226	ppm	0.0008520	0.1631	.5000	Rel(%)	Pass	
Sb2068		0.5096	ppm	0.0001830	0.03595	.5000	Rel(%)	Pass	
Se1960		0.5186	ppm	0.005987	1.154	.5000	Rel(%)	Pass	
Si2124		0.4908	ppm	0.001475	0.3004				
Sn1899		0.5203	ppm	0.001538	0.2955	.5000	Rel(%)	Pass	
Sr4077		0.5050	ppm	0.001987	0.3934	.5000	Rel(%)	Pass	
Ti3361		0.4784	ppm	0.007599	1.588	.5000	Rel(%)	Pass	
Tl1908	**W**	**0.5491**	**ppm**	**0.005977**	**1.088**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.5232	ppm	0.001099	0.2101	.5000	Rel(%)	Pass	
Zn2062	**W**	**0.5253**	**ppm**	**0.0001150**	**0.02194**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Y371.030		9,560.2	Cts/S	15.445	0.16156				
Y029A		269,440	Cts/S	2,258.1	0.83807				
Y029R		2,588.5	Cts/S	1.7734	0.068511				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 9:39:08AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0009760	ppm	0.0001230	12.58	.0000	Abs	Pass	
Al3961		0.01994	ppm	0.01276	64.02	.0000	Abs	Pass	
As1890		-0.0002310	ppm	0.002580	1,117	.0000	Abs	Pass	
Au2427		1.674	ppm	0.3936	23.51				
B_2089		0.0004690	ppm	0.0008320	177.3	.0000	Abs	Pass	
Ba4934		-0.002235	ppm	0.0005360	23.98	.0000	Abs	Pass	
Be3130		-0.0001460	ppm	0.0003480	238.1	.0000	Abs	Pass	
Ca3179		-0.001382	ppm	0.02498	1,807	.0000	Abs	Pass	
Cd2144		0.00004400	ppm	0.00002700	60.56	.0000	Abs	Pass	
Co2286		0.000007000	ppm	0.0001320	1,799	.0000	Abs	Pass	
Cr2677		0.0004850	ppm	0.0001710	35.32	.0000	Abs	Pass	
Cu327.39		-0.001585	ppm	0.001758	110.9	.0000	Abs	Pass	
Fe2395		0.01990	ppm	0.04195	210.8	.0000	Abs	Pass	
K7694		0.2852	ppm	0.004421	1.550	.0000	Abs	Pass	
Mg2790		0.1249	ppm	0.1573	126.0	.0000	Abs	Pass	
Mn2576		0.00005900	ppm	0.0001430	241.5	.0000	Abs	Pass	
Mo2020		0.0009600	ppm	0.0008160	85.03	.0000	Abs	Pass	
Na5895		0.1917	ppm	0.004902	2.557	.0000	Abs	Pass	
Ni2316		-0.0004710	ppm	0.00004400	9.391	.0000	Abs	Pass	
Pb2203		0.001712	ppm	0.001384	80.84	.0000	Abs	Pass	
Sb2068		0.001253	ppm	0.001564	124.8	.0000	Abs	Pass	
Se1960		-0.001509	ppm	0.0005640	37.38	.0000	Abs	Pass	
Si2124		-0.009510	ppm	0.001002	10.53				
Sn1899		0.00002400	ppm	0.00007700	322.1	.0000	Abs	Pass	
Sr4077		0.0001350	ppm	0.0002810	207.9	.0000	Abs	Pass	
Ti3361		0.003877	ppm	0.0004070	10.50	.0000	Abs	Pass	
Tl1908		-0.002764	ppm	0.006762	244.7	.0000	Abs	Pass	
V2924		0.0004890	ppm	0.00009300	19.07	.0000	Abs	Pass	
Zn2062		-0.0001570	ppm	0.00004500	28.59	.0000	Abs	Pass	
Y371.030		10,129	Cts/S	0.12469	0.0012310				
Y029A		286,390	Cts/S	1,253.5	0.43769				
Y029R		2,705.4	Cts/S	4.3416	0.16048				

ICV/CCV

Acquire Date: 2/1/2019 10:50:33AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2460	ppm	0.001275	0.5181	.2500	Rel(%)	Pass	
Al3961	**W**	**13.90**	**ppm**	**0.1553**	**1.117**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
As1890		0.4997	ppm	0.004593	0.9192	.5000	Rel(%)	Pass	
Au2427		73.29	ppm	2.172	2.964				
B_2089		0.4792	ppm	0.001750	0.3652	.5000	Rel(%)	Pass	
Ba4934		0.4767	ppm	0.001999	0.4192	.5000	Rel(%)	Pass	
Be3130		0.4804	ppm	0.004267	0.8882	.5000	Rel(%)	Pass	
Ca3179		14.48	ppm	0.04828	0.3334	15.00	Rel(%)	Pass	
Cd2144		0.5022	ppm	0.0005300	0.1056	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 10:50:33AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Co2286		0.5026	ppm	0.001766	0.3514	.5000	Rel(%)	Pass	
Cr2677		0.4946	ppm	0.00004700	0.009509	.5000	Rel(%)	Pass	
Cu327.39		0.4966	ppm	0.0009290	0.1871	.5000	Rel(%)	Pass	
Fe2395		14.32	ppm	0.02770	0.1935	15.00	Rel(%)	Pass	
K7694		14.50	ppm	0.1095	0.7548	15.00	Rel(%)	Pass	
Mg2790		14.53	ppm	0.1578	1.086	15.00	Rel(%)	Pass	
Mn2576		0.4869	ppm	0.00007500	0.01550	.5000	Rel(%)	Pass	
Mo2020		0.5021	ppm	0.001525	0.3037	.5000	Rel(%)	Pass	
Na5895		14.74	ppm	0.1896	1.286	15.00	Rel(%)	Pass	
Ni2316		0.4944	ppm	0.001866	0.3775	.5000	Rel(%)	Pass	
Pb2203		0.5058	ppm	0.003416	0.6755	.5000	Rel(%)	Pass	
Sb2068		0.4902	ppm	0.007437	1.517	.5000	Rel(%)	Pass	
Se1960		0.4950	ppm	0.002211	0.4466	.5000	Rel(%)	Pass	
Si2124		0.4967	ppm	0.002351	0.4732				
Sn1899		0.5026	ppm	0.002008	0.3996	.5000	Rel(%)	Pass	
Sr4077		0.4761	ppm	0.003021	0.6346	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.4546**	**ppm**	**0.0003000**	**0.06598**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Tl1908	**F**	**0.5505**	**ppm**	**0.004808**	**0.8734**	**.5000**	**Rel(%)**	**Fail High**	**10.00**
V2924		0.4979	ppm	0.0005040	0.1013	.5000	Rel(%)	Pass	
Zn2062		0.5051	ppm	0.002777	0.5498	.5000	Rel(%)	Pass	
Y371.030		9,444.6	Cts/S	59.455	0.62951				
Y029A		264,900	Cts/S	1,357.4	0.51242				
Y029R		2,477.2	Cts/S	18.320	0.73955				

ICB/CCB

Acquire Date: 2/1/2019 10:55:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0003240	ppm	0.000003000	0.9384	.0000	Abs	Pass	
Al3961		0.009708	ppm	0.02737	281.9	.0000	Abs	Pass	
As1890		0.001275	ppm	0.003162	247.9	.0000	Abs	Pass	
Au2427		1.194	ppm	0.09919	8.304				
B_2089		0.0005640	ppm	0.0008920	158.0	.0000	Abs	Pass	
Ba4934		-0.0002680	ppm	0.0009450	352.5	.0000	Abs	Pass	
Be3130		-0.0001370	ppm	0.0001170	85.18	.0000	Abs	Pass	
Ca3179		-0.001865	ppm	0.04388	2,352	.0000	Abs	Pass	
Cd2144		0.00002700	ppm	0.00003800	140.9	.0000	Abs	Pass	
Co2286		0.0001000	ppm	0.00004700	47.34	.0000	Abs	Pass	
Cr2677		0.0008180	ppm	0.0002850	34.87	.0000	Abs	Pass	
Cu327.39		-0.0005570	ppm	0.0008390	150.6	.0000	Abs	Pass	
Fe2395		0.03515	ppm	0.01161	33.02	.0000	Abs	Pass	
K7694		0.3620	ppm	0.002615	0.7223	.0000	Abs	Pass	
Mg2790		0.06670	ppm	0.1284	192.4	.0000	Abs	Pass	
Mn2576		-0.0001710	ppm	0.000004000	2.248	.0000	Abs	Pass	
Mo2020		0.001097	ppm	0.0003550	32.42	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 10:55:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Na5895		0.5536	ppm	0.07024	12.69	.0000	Abs	Pass	
Ni2316		-0.0006490	ppm	0.0002880	44.39	.0000	Abs	Pass	
Pb2203		0.001721	ppm	0.0009730	56.53	.0000	Abs	Pass	
Sb2068		0.003876	ppm	0.001321	34.07	.0000	Abs	Pass	
Se1960		-0.0006820	ppm	0.005518	809.6	.0000	Abs	Pass	
Si2124		-0.004899	ppm	0.0004070	8.304				
Sn1899		-0.0002150	ppm	0.0009860	458.9	.0000	Abs	Pass	
Sr4077		0.00005400	ppm	0.0001220	228.4	.0000	Abs	Pass	
Ti3361		0.002865	ppm	0.004398	153.5	.0000	Abs	Pass	
Tl1908		0.001710	ppm	0.003827	223.8	.0000	Abs	Pass	
V2924		0.0007720	ppm	0.0005630	72.99	.0000	Abs	Pass	
Zn2062		-0.0001340	ppm	0.0001580	117.8	.0000	Abs	Pass	
Y371.030		9,914.9	Cts/S	17.055	0.17201				
Y029A		285,060	Cts/S	5,611.4	1.9685				
Y029R		2,599.9	Cts/S	28.625	1.1010				

720-90949-e-4-a

Acquire Date: 2/1/2019 11:12:28AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0001230	ppm	0.0003790	308.1
Al3961		7.988	ppm	0.05555	0.6954
As1890		0.06939	ppm	0.0005650	0.8139
Au2427		12.49	ppm	0.06067	0.4859
B_2089		0.01563	ppm	0.0005680	3.636
Ba4934		0.09989	ppm	0.0001690	0.1691
Be3130		0.0001380	ppm	0.0005360	387.7
Ca3179		13.04	ppm	0.008576	0.06579
Cd2144		0.001666	ppm	0.00005500	3.297
Co2286		0.02896	ppm	0.00007700	0.2671
Cr2677		0.06982	ppm	0.0007700	1.103
Cu327.39		0.8050	ppm	0.002065	0.2565
Fe2395		225.2	ppm	2.964	1.316
K7694		2.071	ppm	0.2726	13.16
Mg2790		21.24	ppm	0.2375	1.119
Mn2576		1.263	ppm	0.001520	0.1203
Mo2020		0.004076	ppm	0.00002600	0.6314
Na5895		2.460	ppm	0.01636	0.6650
Ni2316		0.1756	ppm	0.0003970	0.2263
Pb2203		2.063	ppm	0.006329	0.3068
Sb2068		0.04403	ppm	0.001407	3.195
Se1960		0.001967	ppm	0.004631	235.5
Si2124		1.062	ppm	0.006897	0.6497
Sn1899		0.1243	ppm	0.0003320	0.2671
Sr4077		0.1425	ppm	0.002258	1.585
Ti3361		0.4188	ppm	0.002052	0.4900

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90949-e-4-a

Acquire Date: 2/1/2019 11:12:28AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Tl1908		-0.004921	ppm	0.00003700	0.7471
V2924		0.06447	ppm	0.0006500	1.008
Zn2062		0.4227	ppm	0.001930	0.4567
Y371.030		7,723.4	Cts/S	10.888	0.14097
Y029A		223,280	Cts/S	333.46	0.14935
Y029R		2,092.2	Cts/S	1.6400	0.078386

720-91048-e-21-b

Acquire Date: 2/1/2019 11:17:11AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01132	ppm	0.001226	10.83
Al3961		31.17	ppm	0.4493	1.441
As1890		0.08527	ppm	0.0003400	0.3990
Au2427		21.27	ppm	0.6078	2.858
B_2089		0.2767	ppm	0.001118	0.4040
Ba4934		2.767	ppm	0.03255	1.176
Be3130		0.0005750	ppm	0.0003420	59.52
Ca3179		89.18	ppm	0.8830	0.9901
Cd2144		0.02855	ppm	0.0001320	0.4608
Co2286		0.02552	ppm	0.00007100	0.2778
Cr2677		0.1122	ppm	0.001976	1.762
Cu327.39		1.550	ppm	0.0005870	0.03789
Fe2395		378.7	ppm	4.229	1.117
K7694		5.479	ppm	0.04317	0.7878
Mg2790		171.2	ppm	1.740	1.016
Mn2576		2.417	ppm	0.003263	0.1350
Mo2020		0.001545	ppm	0.0001610	10.40
Na5895		8.367	ppm	0.1339	1.600
Ni2316		0.1242	ppm	0.000006000	0.004691
Pb2203		35.43	ppm	0.04057	0.1145
Sb2068		0.07065	ppm	0.0009790	1.386
Se1960		0.008446	ppm	0.004531	53.65
Si2124		2.872	ppm	0.02072	0.7213
Sn1899		2.781	ppm	0.002807	0.1009
Sr4077		0.5570	ppm	0.005343	0.9593
Ti3361		0.8089	ppm	0.005837	0.7216
Tl1908		-0.003701	ppm	0.005549	149.9
V2924		0.07557	ppm	0.0007950	1.052
Zn2062		12.18	ppm	0.009272	0.07615
Y371.030		7,251.5	Cts/S	5.0739	0.069971
Y029A		209,520	Cts/S	256.89	0.12261
Y029R		1,990.1	Cts/S	8.6996	0.43715

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91068-b-2-a

Acquire Date: 2/1/2019 11:21:48AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001617	ppm	0.0005730	35.45
Al3961		117.8	ppm	1.191	1.011
As1890		0.1390	ppm	0.0005050	0.3638
Au2427		12.44	ppm	0.6179	4.965
B_2089		0.02649	ppm	0.0006160	2.325
Ba4934		1.212	ppm	0.01652	1.363
Be3130		0.003065	ppm	0.0001790	5.855
Ca3179		50.43	ppm	0.5315	1.054
Cd2144		0.002550	ppm	0.0001990	7.811
Co2286		0.1340	ppm	0.00005300	0.03949
Cr2677		0.6109	ppm	0.002907	0.4759
Cu327.39		0.3503	ppm	0.001164	0.3323
Fe2395		215.0	ppm	0.7358	0.3422
K7694		12.52	ppm	0.1417	1.132
Mg2790		-11.63	ppm	0.5087	4.374
Mn2576		4.183	ppm	0.02135	0.5105
Mo2020		0.0001970	ppm	0.0005090	259.1
Na5895		1.671	ppm	0.1335	7.992
Ni2316		0.8687	ppm	0.003879	0.4466
Pb2203		0.1913	ppm	0.001815	0.9492
Sb2068		0.005592	ppm	0.0004690	8.390
Se1960		0.002920	ppm	0.00001600	0.5619
Si2124		3.856	ppm	0.05464	1.417
Sn1899		-0.01171	ppm	0.0004770	4.072
Sr4077		0.1754	ppm	0.001412	0.8048
Ti3361		4.518	ppm	0.03901	0.8635
Tl1908		-0.001133	ppm	0.003633	320.6
V2924		0.4465	ppm	0.0006870	0.1540
Zn2062		0.4817	ppm	0.001299	0.2696
Y371.030		9,617.6	Cts/S	50.603	0.52615
Y029A		271,550	Cts/S	765.55	0.28192
Y029R		2,556.1	Cts/S	42.535	1.6640

720-91010-d-1-a

Acquire Date: 2/1/2019 11:26:34AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0009520	ppm	0.0003510	36.87
Al3961		43.08	ppm	0.003925	0.009112
As1890		0.04822	ppm	0.003217	6.672
Au2427		3.933	ppm	0.3239	8.235
B_2089		0.09157	ppm	0.0001660	0.1808
Ba4934		1.150	ppm	0.003897	0.3389
Be3130		0.001830	ppm	0.0002420	13.23
Ca3179		65.13	ppm	0.2544	0.3906

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-d-1-a

Acquire Date: 2/1/2019 11:26:34AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.0006320	ppm	0.000006000	0.9574
Co2286		0.03763	ppm	0.0002100	0.5589
Cr2677		0.1668	ppm	0.001447	0.8676
Cu327.39		0.1331	ppm	0.002274	1.709
Fe2395		70.07	ppm	0.5381	0.7679
K7694		5.613	ppm	0.3501	6.237
Mg2790		114.0	ppm	0.2859	0.2507
Mn2576		1.123	ppm	0.006692	0.5961
Mo2020		0.01897	ppm	0.0004080	2.150
Na5895		4.763	ppm	0.06292	1.321
Ni2316		0.1761	ppm	0.0001450	0.08213
Pb2203		0.1169	ppm	0.001254	1.074
Sb2068		0.0008150	ppm	0.001022	125.5
Se1960		0.001225	ppm	0.007008	572.1
Si2124		2.380	ppm	0.01157	0.4861
Sn1899		0.007696	ppm	0.0005450	7.077
Sr4077		1.218	ppm	0.004239	0.3481
Ti3361		1.479	ppm	0.01483	1.002
Tl1908		-0.003982	ppm	0.003025	75.97
V2924		0.1713	ppm	0.001958	1.143
Zn2062		0.1978	ppm	0.0001310	0.06619
Y371.030		8,482.3	Cts/S	36.656	0.43215
Y029A		243,520	Cts/S	293.32	0.12045
Y029R		2,276.9	Cts/S	13.681	0.60087

720-91010-d-11-a

Acquire Date: 2/1/2019 11:31:17AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0006440	ppm	0.0003350	52.02
Al3961		46.06	ppm	0.3386	0.7351
As1890		0.03842	ppm	0.002665	6.936
Au2427		18.49	ppm	0.2000	1.082
B_2089		0.05184	ppm	0.002287	4.412
Ba4934		1.821	ppm	0.01740	0.9551
Be3130		0.001449	ppm	0.0001750	12.10
Ca3179		40.15	ppm	0.3393	0.8453
Cd2144		0.002689	ppm	0.0003310	12.33
Co2286		0.09704	ppm	0.000003000	0.003163
Cr2677		0.1614	ppm	0.0009340	0.5791
Cu327.39		0.5066	ppm	0.002950	0.5824
Fe2395		308.8	ppm	3.325	1.077
K7694		6.133	ppm	0.1784	2.909
Mg2790		59.14	ppm	0.3012	0.5094

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-d-11-a

Acquire Date: 2/1/2019 11:31:17AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		6.452	ppm	0.07761	1.203
Mo2020		0.0001540	ppm	0.0004500	292.1
Na5895		2.220	ppm	0.03420	1.541
Ni2316		0.2545	ppm	0.001699	0.6677
Pb2203		2.813	ppm	0.01677	0.5963
Sb2068		0.01417	ppm	0.0007300	5.156
Se1960		0.01282	ppm	0.001388	10.83
Si2124		1.198	ppm	0.01961	1.638
Sn1899		0.2276	ppm	0.0001850	0.08133
Sr4077		0.2791	ppm	0.004384	1.571
Ti3361		2.188	ppm	0.01713	0.7830
Tl1908		0.001127	ppm	0.0006500	57.66
V2924		0.1779	ppm	0.0006320	0.3552
Zn2062		0.8887	ppm	0.006159	0.6930
Y371.030		8,521.8	Cts/S	8.1210	0.095296
Y029A		246,490	Cts/S	358.29	0.14536
Y029R		2,289.6	Cts/S	10.547	0.46065

720-91010-d-12-a

Acquire Date: 2/1/2019 11:36:01AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0008050	ppm	0.0005640	70.05
Al3961		10.77	ppm	0.03689	0.3425
As1890		0.01766	ppm	0.002158	12.22
Au2427		9.258	ppm	0.1454	1.571
B_2089		0.01734	ppm	0.000009000	0.05452
Ba4934		0.5310	ppm	0.0003880	0.07309
Be3130		0.0004270	ppm	0.0002710	63.42
Ca3179		14.58	ppm	0.06984	0.4789
Cd2144		0.001638	ppm	0.00004500	2.740
Co2286		0.04805	ppm	0.0002050	0.4264
Cr2677		0.05970	ppm	0.0007360	1.232
Cu327.39		0.1905	ppm	0.0007410	0.3891
Fe2395		158.0	ppm	0.6559	0.4151
K7694		1.320	ppm	0.1103	8.360
Mg2790		23.16	ppm	0.2941	1.270
Mn2576		2.508	ppm	0.02049	0.8172
Mo2020		0.001146	ppm	0.0002320	20.24
Na5895		0.4467	ppm	0.03520	7.881
Ni2316		0.09676	ppm	0.0002460	0.2538
Pb2203		1.562	ppm	0.005858	0.3750
Sb2068		0.007500	ppm	0.0005550	7.401
Se1960		0.002522	ppm	0.001997	79.19
Si2124		0.5753	ppm	0.004584	0.7968

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-d-12-a

Acquire Date: 2/1/2019 11:36:01AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.06665	ppm	0.0003820	0.5738
Sr4077		0.09726	ppm	0.00005100	0.05192
Ti3361		0.7304	ppm	0.001532	0.2097
Tl1908		-0.007858	ppm	0.0002640	3.358
V2924		0.05434	ppm	0.001177	2.167
Zn2062		0.3064	ppm	0.0005870	0.1916
Y371.030		10,099	Cts/S	31.725	0.31413
Y029A		286,290	Cts/S	2,815.2	0.98331
Y029R		2,664.4	Cts/S	0.92614	0.034760

720-91010-d-15-a

Acquire Date: 2/1/2019 11:40:50AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0009730	ppm	0.0005540	56.93
Al3961		74.56	ppm	1.329	1.783
As1890		0.04773	ppm	0.003557	7.453
Au2427		9.223	ppm	0.3557	3.857
B_2089		0.06064	ppm	0.001053	1.737
Ba4934		2.245	ppm	0.03761	1.675
Be3130		0.003328	ppm	0.0002970	8.935
Ca3179		34.65	ppm	0.5534	1.597
Cd2144		0.005709	ppm	0.0001440	2.518
Co2286		0.1107	ppm	0.0008400	0.7585
Cr2677		0.4355	ppm	0.0005810	0.1333
Cu327.39		0.3246	ppm	0.001496	0.4609
Fe2395		168.8	ppm	2.210	1.310
K7694		11.45	ppm	0.03537	0.3088
Mg2790		36.36	ppm	0.7636	2.100
Mn2576		2.011	ppm	0.003432	0.1707
Mo2020		0.003635	ppm	0.0004330	11.90
Na5895		6.590	ppm	0.02119	0.3215
Ni2316		0.5986	ppm	0.005110	0.8535
Pb2203		0.6970	ppm	0.002779	0.3987
Sb2068		0.007742	ppm	0.0003200	4.135
Se1960		-0.001291	ppm	0.0004610	35.70
Si2124		2.087	ppm	0.02587	1.239
Sn1899		0.09411	ppm	0.0001610	0.1707
Sr4077		0.4113	ppm	0.004530	1.101
Ti3361		2.347	ppm	0.05969	2.543
Tl1908		-0.01054	ppm	0.0001280	1.212
V2924		0.2967	ppm	0.002195	0.7396
Zn2062		2.038	ppm	0.007905	0.3878
Y371.030		8,360.1	Cts/S	18.112	0.21665

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-d-15-a

Acquire Date: 2/1/2019 11:40:50AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		239,530	Cts/S	2,234.7	0.93298
Y029R		2,248.0	Cts/S	11.917	0.53012

720-91009-a-19-c

Acquire Date: 2/1/2019 11:45:31AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.002485	ppm	0.0003650	14.68
Al3961		47.01	ppm	0.08356	0.1777
As1890		0.06116	ppm	0.0006040	0.9873
Au2427		17.01	ppm	0.05267	0.3097
B_2089		-0.0004500	ppm	0.0004740	105.3
Ba4934		0.3039	ppm	0.003377	1.111
Be3130		0.003263	ppm	0.0001440	4.424
Ca3179		2.393	ppm	0.01874	0.7832
Cd2144		0.001856	ppm	0.00007200	3.877
Co2286		0.1664	ppm	0.0002970	0.1783
Cr2677		0.6340	ppm	0.001960	0.3092
Cu327.39		0.2658	ppm	0.001034	0.3892
Fe2395		302.9	ppm	1.313	0.4334
K7694		2.303	ppm	0.2353	10.22
Mg2790		-2.814	ppm	0.08660	3.077
Mn2576		0.5491	ppm	0.001154	0.2102
Mo2020		0.05230	ppm	0.0002030	0.3874
Na5895		5.115	ppm	0.02502	0.4891
Ni2316		0.5509	ppm	0.0009100	0.1651
Pb2203		0.04531	ppm	0.0005200	1.148
Sb2068		0.01541	ppm	0.0005740	3.724
Se1960		0.005308	ppm	0.008404	158.3
Si2124		0.6166	ppm	0.002432	0.3945
Sn1899		0.01564	ppm	0.0001490	0.9559
Sr4077		0.04036	ppm	0.0002120	0.5248
Ti3361		0.03763	ppm	0.006260	16.64
Tl1908		-0.01131	ppm	0.004760	42.08
V2924		0.3492	ppm	0.0001480	0.04248
Zn2062		0.2069	ppm	0.0001500	0.07269
Y371.030		9,270.4	Cts/S	17.182	0.18534
Y029A		262,930	Cts/S	468.77	0.17829
Y029R		2,448.4	Cts/S	19.394	0.79209

720-90956-a-10-b

Acquire Date: 2/1/2019 11:50:16AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0001320	ppm	0.0001850	141.0
Al3961		89.94	ppm	1.655	1.840
As1890		0.08183	ppm	0.006797	8.307
Au2427		12.64	ppm	0.2858	2.262
B_2089		0.02347	ppm	0.0007430	3.167
Ba4934		1.042	ppm	0.01744	1.674
Be3130		0.002063	ppm	0.0003330	16.14
Ca3179		52.85	ppm	0.9231	1.747
Cd2144		0.006517	ppm	0.0002760	4.235
Co2286		0.09567	ppm	0.001483	1.550
Cr2677		0.3995	ppm	0.003150	0.7886
Cu327.39		0.6291	ppm	0.004762	0.7570
Fe2395		217.1	ppm	4.580	2.110
K7694		7.883	ppm	0.2124	2.695
Mg2790		60.39	ppm	0.8633	1.430
Mn2576		3.513	ppm	0.03182	0.9056
Mo2020		0.003153	ppm	0.0002700	8.565
Na5895		2.644	ppm	0.1811	6.850
Ni2316		0.3835	ppm	0.005534	1.443
Pb2203		0.2033	ppm	0.001492	0.7340
Sb2068		0.009050	ppm	0.0001590	1.753
Se1960		0.01103	ppm	0.0005250	4.765
Si2124		1.760	ppm	0.05979	3.396
Sn1899		0.01546	ppm	0.0006990	4.519
Sr4077		0.2686	ppm	0.004659	1.734
Ti3361		3.141	ppm	0.05671	1.805
Tl1908		0.003988	ppm	0.008331	208.9
V2924		0.3934	ppm	0.0002940	0.07484
Zn2062		1.065	ppm	0.01524	1.432
Y371.030		8,904.5	Cts/S	5.6450	0.063395
Y029A		255,260	Cts/S	588.44	0.23053
Y029R		2,385.2	Cts/S	55.161	2.3127

720-90956-a-14-b

Acquire Date: 2/1/2019 11:54:56AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.006610	ppm	0.001085	16.41
Al3961		5.160	ppm	0.05331	1.033
As1890		0.08137	ppm	0.004662	5.729
Au2427		12.21	ppm	0.2419	1.982
B_2089		0.01074	ppm	0.001623	15.11
Ba4934		0.3703	ppm	0.002481	0.6700
Be3130		-0.0004310	ppm	0.0002040	47.30
Ca3179		2.006	ppm	0.02219	1.106

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-14-b

Acquire Date: 2/1/2019 11:54:56AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.003651	ppm	0.00001400	0.3947
Co2286		0.005971	ppm	0.0003860	6.473
Cr2677		0.02709	ppm	0.000001000	0.003909
Cu327.39		0.4130	ppm	0.001211	0.2933
Fe2395		213.7	ppm	0.4088	0.1913
K7694		2.568	ppm	0.04511	1.756
Mg2790		3.122	ppm	0.09690	3.104
Mn2576		0.07014	ppm	0.0004720	0.6730
Mo2020		0.01339	ppm	0.0002220	1.657
Na5895		1.850	ppm	0.008397	0.4538
Ni2316		0.01608	ppm	0.0007970	4.956
Pb2203		0.3775	ppm	0.0003880	0.1027
Sb2068		0.01737	ppm	0.001369	7.884
Se1960		0.003810	ppm	0.002321	60.94
Si2124		0.4988	ppm	0.006825	1.368
Sn1899		0.008486	ppm	0.0001230	1.445
Sr4077		0.02240	ppm	0.0007090	3.167
Ti3361		0.5533	ppm	0.0006480	0.1171
Tl1908		-0.01354	ppm	0.002780	20.53
V2924		0.04304	ppm	0.0001050	0.2437
Zn2062		0.2844	ppm	0.0005610	0.1973
Y371.030		8,615.7	Cts/S	9.0768	0.10535
Y029A		247,020	Cts/S	2,186.8	0.88526
Y029R		2,290.4	Cts/S	7.1267	0.31116

ICV/CCV

Acquire Date: 2/1/2019 11:59:44AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2377	ppm	0.0006060	0.2549	.2500	Rel(%)	Pass	
Al3961	**F**	**13.45**	**ppm**	**0.03141**	**0.2335**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
As1890		0.4889	ppm	0.001981	0.4052	.5000	Rel(%)	Pass	
Au2427		70.57	ppm	1.767	2.504				
B_2089	**W**	**0.4598**	**ppm**	**0.0006950**	**0.1511**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ba4934	**W**	**0.4639**	**ppm**	**0.001586**	**0.3418**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Be3130	**W**	**0.4682**	**ppm**	**0.001627**	**0.3474**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ca3179	**W**	**14.09**	**ppm**	**0.01275**	**0.09048**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Cd2144		0.4861	ppm	0.0007490	0.1541	.5000	Rel(%)	Pass	
Co2286		0.4881	ppm	0.0007360	0.1508	.5000	Rel(%)	Pass	
Cr2677	**W**	**0.4736**	**ppm**	**0.001152**	**0.2433**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Cu327.39		0.4876	ppm	0.002200	0.4513	.5000	Rel(%)	Pass	
Fe2395	**W**	**13.86**	**ppm**	**0.01975**	**0.1424**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
K7694	**W**	**13.99**	**ppm**	**0.4015**	**2.871**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mg2790	**W**	**14.17**	**ppm**	**0.1214**	**0.8572**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mn2576	**W**	**0.4686**	**ppm**	**0.0003240**	**0.06911**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 11:59:44AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Mo2020		0.4878	ppm	0.0005120	0.1050	.5000	Rel(%)	Pass	
Na5895	**W**	**14.05**	**ppm**	**0.2765**	**1.968**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Ni2316	**W**	**0.4735**	**ppm**	**0.001977**	**0.4176**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Pb2203		0.4845	ppm	0.003553	0.7334	.5000	Rel(%)	Pass	
Sb2068	**W**	**0.4704**	**ppm**	**0.002127**	**0.4521**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Se1960	**W**	**0.4748**	**ppm**	**0.0004230**	**0.08905**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Si2124		0.4752	ppm	0.005920	1.246				
Sn1899		0.4832	ppm	0.001993	0.4125	.5000	Rel(%)	Pass	
Sr4077	**W**	**0.4592**	**ppm**	**0.003377**	**0.7353**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ti3361	**F**	**0.4336**	**ppm**	**0.002902**	**0.6693**	**.5000**	**Rel(%)**	**Fail Low**	**-10.00**
Tl1908	**F**	**0.5570**	**ppm**	**0.02648**	**4.754**	**.5000**	**Rel(%)**	**Fail High**	**10.00**
V2924		0.4818	ppm	0.0002550	0.05286	.5000	Rel(%)	Pass	
Zn2062		0.4846	ppm	0.002290	0.4725	.5000	Rel(%)	Pass	
Y371.030		9,386.7	Cts/S	14.222	0.15152				
Y029A		270,490	Cts/S	2,189.9	0.80958				
Y029R		2,492.5	Cts/S	28.098	1.1273				

ICB/CCB

Acquire Date: 2/1/2019 12:04:30PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001741	ppm	0.0009880	56.77	.0000	Abs	Pass	
Al3961		-0.01455	ppm	0.06576	451.9	.0000	Abs	Pass	
As1890		-0.001278	ppm	0.001101	86.10	.0000	Abs	Pass	
Au2427		0.9578	ppm	0.1178	12.30				
B_2089		0.0001230	ppm	0.0003540	287.8	.0000	Abs	Pass	
Ba4934		-0.0007320	ppm	0.0007870	107.6	.0000	Abs	Pass	
Be3130		0.0004110	ppm	0.00006000	14.63	.0000	Abs	Pass	
Ca3179		-0.0002800	ppm	0.01072	3,830	.0000	Abs	Pass	
Cd2144		0.000006000	ppm	0.00006900	1,093	.0000	Abs	Pass	
Co2286		0.0004020	ppm	0.0001350	33.53	.0000	Abs	Pass	
Cr2677		0.0001350	ppm	0.0009650	715.3	.0000	Abs	Pass	
Cu327.39		-0.0002340	ppm	0.0003050	130.3	.0000	Abs	Pass	
Fe2395		0.04451	ppm	0.008526	19.16	.0000	Abs	Pass	
K7694		0.2927	ppm	0.01839	6.283	.0000	Abs	Pass	
Mg2790		-0.1197	ppm	0.05285	44.17	.0000	Abs	Pass	
Mn2576		0.00006400	ppm	0.00007700	119.8	.0000	Abs	Pass	
Mo2020		0.001459	ppm	0.00003000	2.028	.0000	Abs	Pass	
Na5895		0.5273	ppm	0.1315	24.93	.0000	Abs	Pass	
Ni2316		0.0001590	ppm	0.0004460	281.4	.0000	Abs	Pass	
Pb2203		0.001259	ppm	0.0004600	36.52	.0000	Abs	Pass	
Sb2068		0.002596	ppm	0.002149	82.78	.0000	Abs	Pass	
Se1960		-0.002262	ppm	0.004558	201.5	.0000	Abs	Pass	
Si2124		-0.005780	ppm	0.001696	29.34				
Sn1899		-0.0001030	ppm	0.0005020	487.1	.0000	Abs	Pass	
Sr4077		0.0002830	ppm	0.0001850	65.47	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 12:04:30PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ti3361		0.001771	ppm	0.003363	189.9	.0000	Abs	Pass	
Tl1908		0.0001750	ppm	0.0009420	537.7	.0000	Abs	Pass	
V2924		0.00002700	ppm	0.0001180	437.5	.0000	Abs	Pass	
Zn2062		-0.0001520	ppm	0.0001550	101.9	.0000	Abs	Pass	
Y371.030		9,820.7	Cts/S	5.0690	0.051615				
Y029A		284,350	Cts/S	4,102.1	1.4426				
Y029R		2,569.9	Cts/S	55.571	2.1624				

720-90956-a-15-b

Acquire Date: 2/1/2019 12:09:26PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001485	ppm	0.001168	78.65
Al3961		85.39	ppm	0.2925	0.3425
As1890		0.04891	ppm	0.001518	3.104
Au2427		8.841	ppm	0.1026	1.161
B_2089		0.007671	ppm	0.001886	24.58
Ba4934		0.9662	ppm	0.001987	0.2056
Be3130		0.003699	ppm	0.00007000	1.889
Ca3179		41.80	ppm	0.3046	0.7288
Cd2144		0.003617	ppm	0.0001920	5.317
Co2286		0.09726	ppm	0.001144	1.176
Cr2677		0.3271	ppm	0.002303	0.7040
Cu327.39		0.3523	ppm	0.001807	0.5129
Fe2395		140.9	ppm	0.09126	0.06478
K7694		9.261	ppm	0.01905	0.2057
Mg2790		45.39	ppm	0.6927	1.526
Mn2576		2.293	ppm	0.005135	0.2239
Mo2020		0.0009860	ppm	0.00005500	5.591
Na5895		1.565	ppm	0.04941	3.157
Ni2316		0.3640	ppm	0.003636	0.9991
Pb2203		0.1424	ppm	0.001866	1.311
Sb2068		0.004628	ppm	0.001196	25.85
Se1960		0.002626	ppm	0.005296	201.7
Si2124		1.184	ppm	0.02102	1.776
Sn1899		0.007264	ppm	0.0002690	3.708
Sr4077		0.2282	ppm	0.0003930	0.1721
Ti3361		1.183	ppm	0.004677	0.3954
Tl1908		-0.01006	ppm	0.003930	39.07
V2924		0.2360	ppm	0.003713	1.573
Zn2062		0.6117	ppm	0.009513	1.555
Y371.030		9,497.3	Cts/S	45.571	0.47983
Y029A		272,570	Cts/S	3,917.5	1.4372
Y029R		2,559.0	Cts/S	4.0840	0.15960

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-1-b

Acquire Date: 2/1/2019 12:14:16PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0002530	ppm	0.0006040	239.2
Al3961		35.74	ppm	0.3691	1.033
As1890		0.05904	ppm	0.001322	2.239
Au2427		11.48	ppm	0.4719	4.111
B_2089		0.006389	ppm	0.0005010	7.849
Ba4934		0.6621	ppm	0.006063	0.9157
Be3130		0.001773	ppm	0.0004710	26.56
Ca3179		75.59	ppm	0.8406	1.112
Cd2144		0.003038	ppm	0.00002000	0.6646
Co2286		0.05276	ppm	0.0001900	0.3599
Cr2677		2.015	ppm	0.007484	0.3714
Cu327.39		0.4970	ppm	0.0001880	0.03787
Fe2395		192.9	ppm	0.4170	0.2162
K7694		2.161	ppm	0.02159	0.9992
Mg2790		138.8	ppm	1.560	1.124
Mn2576		2.350	ppm	0.002825	0.1202
Mo2020		0.007584	ppm	0.0006080	8.016
Na5895		1.820	ppm	0.04708	2.587
Ni2316		0.1506	ppm	0.0009770	0.6488
Pb2203		0.6478	ppm	0.001381	0.2132
Sb2068		0.01440	ppm	0.0009450	6.561
Se1960		0.004590	ppm	0.004949	107.8
Si2124		1.148	ppm	0.002304	0.2006
Sn1899		0.7872	ppm	0.0007910	0.1005
Sr4077		0.1612	ppm	0.001051	0.6520
Ti3361		1.019	ppm	0.001830	0.1796
Tl1908		-0.004443	ppm	0.005033	113.3
V2924		0.1511	ppm	0.0003170	0.2100
Zn2062		2.067	ppm	0.003701	0.1791
Y371.030		8,403.5	Cts/S	11.072	0.13176
Y029A		245,580	Cts/S	1,333.8	0.54313
Y029R		2,316.4	Cts/S	9.6709	0.41751

720-90960-a-5-b

Acquire Date: 2/1/2019 12:18:56PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001361	ppm	0.0005280	38.80
Al3961		65.70	ppm	0.1844	0.2808
As1890		0.07654	ppm	0.0007980	1.043
Au2427		9.136	ppm	0.2142	2.345
B_2089		-0.0006070	ppm	0.0005840	96.29
Ba4934		0.3425	ppm	0.0003020	0.08821
Be3130		0.001824	ppm	0.00007700	4.239

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-5-b

Acquire Date: 2/1/2019 12:18:56PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		15.87	ppm	0.06408	0.4039
Cd2144		0.001030	ppm	0.00009500	9.260
Co2286		0.02639	ppm	0.0002610	0.9888
Cr2677		0.1988	ppm	0.0005020	0.2523
Cu327.39		0.3274	ppm	0.0009990	0.3051
Fe2395		165.5	ppm	0.9017	0.5447
K7694		1.969	ppm	0.04934	2.506
Mg2790		12.31	ppm	0.004934	0.04009
Mn2576		0.8273	ppm	0.003236	0.3912
Mo2020		0.0005640	ppm	0.000002000	0.3281
Na5895		0.7874	ppm	0.1230	15.61
Ni2316		0.1055	ppm	0.0003460	0.3284
Pb2203		0.05734	ppm	0.0007300	1.273
Sb2068		0.01224	ppm	0.0005280	4.315
Se1960		0.0005470	ppm	0.008494	1,554
Si2124		2.444	ppm	0.06274	2.567
Sn1899		-0.0006720	ppm	0.0006440	95.79
Sr4077		0.06649	ppm	0.0001950	0.2933
Ti3361		1.033	ppm	0.008051	0.7796
Tl1908		-0.01097	ppm	0.003354	30.56
V2924		0.2791	ppm	0.0004890	0.1751
Zn2062		0.1592	ppm	0.001665	1.046
Y371.030		9,612.5	Cts/S	52.562	0.54680
Y029A		272,150	Cts/S	2,641.8	0.97069
Y029R		2,542.8	Cts/S	37.897	1.4903

ICV/CCV

Acquire Date: 2/1/2019 12:23:47PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280	**W**	**0.2339**	**ppm**	**0.0002540**	**0.1085**	**.2500**	**Rel(%)**	**Warn Low**	**-5.000**
Al3961	**F**	**13.19**	**ppm**	**0.08156**	**0.6183**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
As1890		0.4814	ppm	0.002502	0.5197	.5000	Rel(%)	Pass	
Au2427		68.60	ppm	1.668	2.432				
B_2089	**W**	**0.4551**	**ppm**	**0.001428**	**0.3137**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ba4934	**W**	**0.4556**	**ppm**	**0.002891**	**0.6345**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Be3130	**W**	**0.4591**	**ppm**	**0.002203**	**0.4798**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ca3179	**W**	**13.74**	**ppm**	**0.03722**	**0.2709**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Cd2144		0.4804	ppm	0.0005590	0.1164	.5000	Rel(%)	Pass	
Co2286		0.4818	ppm	0.0009690	0.2011	.5000	Rel(%)	Pass	
Cr2677	**W**	**0.4716**	**ppm**	**0.004841**	**1.027**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Cu327.39		0.4776	ppm	0.002880	0.6029	.5000	Rel(%)	Pass	
Fe2395	**W**	**13.67**	**ppm**	**0.05271**	**0.3855**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
K7694	**W**	**13.75**	**ppm**	**0.06261**	**0.4554**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mg2790	**W**	**13.80**	**ppm**	**0.5498**	**3.984**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 12:23:47PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Mn2576	**W**	**0.4652**	**ppm**	**0.001738**	**0.3736**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Mo2020		0.4801	ppm	0.0005300	0.1104	.5000	Rel(%)	Pass	
Na5895	**W**	**14.09**	**ppm**	**0.1820**	**1.292**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Ni2316	**W**	**0.4703**	**ppm**	**0.0008090**	**0.1721**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Pb2203		0.4819	ppm	0.0009670	0.2007	.5000	Rel(%)	Pass	
Sb2068	**W**	**0.4664**	**ppm**	**0.001757**	**0.3768**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Se1960	**W**	**0.4710**	**ppm**	**0.0004730**	**0.1005**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Si2124		0.4730	ppm	0.002645	0.5593				
Sn1899		0.4775	ppm	0.001872	0.3919	.5000	Rel(%)	Pass	
Sr4077	**W**	**0.4518**	**ppm**	**0.001716**	**0.3798**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ti3361	**F**	**0.4322**	**ppm**	**0.002540**	**0.5876**	**.5000**	**Rel(%)**	**Fail Low**	**-10.00**
Tl1908	**W**	**0.5328**	**ppm**	**0.02391**	**4.487**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.4763	ppm	0.002311	0.4852	.5000	Rel(%)	Pass	
Zn2062		0.4804	ppm	0.0006400	0.1332	.5000	Rel(%)	Pass	
Y371.030		9,454.4	Cts/S	11.260	0.11910				
Y029A		267,050	Cts/S	1,636.5	0.61279				
Y029R		2,464.3	Cts/S	25.245	1.0245				

ICB/CCB

Acquire Date: 2/1/2019 12:28:34PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0004750	ppm	0.001102	232.3	.0000	Abs	Pass	
Al3961		-0.05640	ppm	0.05089	90.23	.0000	Abs	Pass	
As1890		-0.001940	ppm	0.001193	61.47	.0000	Abs	Pass	
Au2427		1.328	ppm	0.08989	6.768				
B_2089		0.0003070	ppm	0.0009010	293.2	.0000	Abs	Pass	
Ba4934		-0.001203	ppm	0.0003970	32.99	.0000	Abs	Pass	
Be3130		0.0002190	ppm	0.0003390	154.8	.0000	Abs	Pass	
Ca3179		-0.01949	ppm	0.005101	26.17	.0000	Abs	Pass	
Cd2144		0.00005100	ppm	0.000009000	17.82	.0000	Abs	Pass	
Co2286		0.0002610	ppm	0.0002740	105.2	.0000	Abs	Pass	
Cr2677		0.0004760	ppm	0.00005400	11.32	.0000	Abs	Pass	
Cu327.39		0.001204	ppm	0.0008300	68.97	.0000	Abs	Pass	
Fe2395		0.09789	ppm	0.001680	1.716	.0000	Abs	Pass	
K7694		0.05872	ppm	0.1341	228.4	.0000	Abs	Pass	
Mg2790		-0.1421	ppm	0.04620	32.51	.0000	Abs	Pass	
Mn2576		0.0002410	ppm	0.0001470	60.84	.0000	Abs	Pass	
Mo2020		0.001360	ppm	0.001103	81.11	.0000	Abs	Pass	
Na5895		0.1022	ppm	0.02872	28.11	.0000	Abs	Pass	
Ni2316		-0.0001300	ppm	0.0004900	377.3	.0000	Abs	Pass	
Pb2203		0.002520	ppm	0.0008440	33.50	.0000	Abs	Pass	
Sb2068		0.001880	ppm	0.001675	89.10	.0000	Abs	Pass	
Se1960		0.001656	ppm	0.004913	296.7	.0000	Abs	Pass	
Si2124		-0.008615	ppm	0.001425	16.54				
Sn1899		-0.0001070	ppm	0.00008700	81.10	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 12:28:34PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Sr4077		0.0001710	ppm	0.0004770	279.0	.0000	Abs	Pass	
Ti3361		-0.002286	ppm	0.002169	94.88	.0000	Abs	Pass	
Tl1908		-0.001988	ppm	0.006598	331.8	.0000	Abs	Pass	
V2924		0.0003450	ppm	0.0005810	168.7	.0000	Abs	Pass	
Zn2062		-0.00007700	ppm	0.0001070	139.0	.0000	Abs	Pass	
Y371.030		10,315	Cts/S	9.2175	0.089359				
Y029A		298,410	Cts/S	2,665.6	0.89325				
Y029R		2,716.3	Cts/S	15.302	0.56335				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Author:

Published: 2/1/2019 12:48:19PM

Notes:

Blank

Acquire Date: 2/1/2019 8:46:03AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		46.15	Cts/S	16.76	36.31
Al3961		-6.464	Cts/S	0.8253	12.77
As1890		1.686	Cts/S	1.282	76.06
Au2427		2.975	Cts/S	4.702	158.1
B_2089		-0.0001200	Cts/S	0.0001880	157.3
Ba4934		61.16	Cts/S	0.6588	1.077
Be3130		-2.861	Cts/S	0.5854	20.47
Ca3179		18.06	Cts/S	1.084	6.002
Cd2144		0.06722	Cts/S	0.07083	105.4
Co2286		2.827	Cts/S	0.6190	21.89
Cr2677		-0.8000	Cts/S	5.052	631.5
Cu327.39		6.300	Cts/S	11.17	177.3
Fe2395		-0.8062	Cts/S	1.812	224.8
K7694		0.04928	Cts/S	0.0007340	1.490
Mg2790		-1.861	Cts/S	1.784	95.85
Mn2576		27.63	Cts/S	4.419	16.00
Mo2020		-2.028	Cts/S	0.9347	46.08
Na5895		1.506	Cts/S	0.01884	1.251
Ni2316		-0.6223	Cts/S	1.587	255.0
Pb2203		-0.8096	Cts/S	0.03865	4.773
Sb2068		-0.8124	Cts/S	0.8096	99.66
Se1960		-1.945	Cts/S	0.2908	14.95
Si2124		0.004774	Cts/S	0.00007500	1.578
Sn1899		4.536	Cts/S	0.2421	5.338
Sr4077		-0.2530	Cts/S	1.039	410.7
Ti3361		0.000003000	Cts/S	0.000002000	79.22
Tl1908		1.207	Cts/S	0.2327	19.28
V2924		3.200	Cts/S	4.879	152.5
Zn2062		11.63	Cts/S	1.623	13.96
Y371.030		10,415	Cts/S	15.572	0.14952
Y029A		289,170	Cts/S	1,477.3	0.51086
Y029R		2,831.3	Cts/S	32.816	1.1590

CAL STD.

Acquire Date: 2/1/2019 8:51:00AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5,950	Cts/S	0.1060	0.001782
Al3961		1,713	Cts/S	11.87	0.6928
As1890		293.3	Cts/S	1.145	0.3903

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

CAL STD.

Acquire Date: 2/1/2019 8:51:00AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Au2427		14.37	Cts/S	2.793	19.43
B_2089		0.1631	Cts/S	0.0003320	0.2036
Ba4934		6,375	Cts/S	54.32	0.8521
Be3130		3,948	Cts/S	29.32	0.7426
Ca3179		2,471	Cts/S	32.50	1.315
Cd2144		12,350	Cts/S	51.09	0.4137
Co2286		4,915	Cts/S	17.47	0.3555
Cr2677		9,306	Cts/S	23.18	0.2491
Cu327.39		8,356	Cts/S	53.02	0.6346
Fe2395		627.5	Cts/S	4.575	0.7291
K7694		0.6258	Cts/S	0.001523	0.2434
Mg2790		207.3	Cts/S	3.249	1.568
Mn2576		43,160	Cts/S	212.8	0.4930
Mo2020		1,914	Cts/S	0.7131	0.03726
Na5895		6.247	Cts/S	0.08404	1.345
Ni2316		3,388	Cts/S	5.257	0.1552
Pb2203		861.5	Cts/S	0.7852	0.09114
Sb2068		401.6	Cts/S	2.162	0.5383
Se1960		207.1	Cts/S	2.073	1.001
Si2124		1.886	Cts/S	0.03689	1.956
Sn1899		910.9	Cts/S	3.848	0.4225
Sr4077		6,885	Cts/S	62.53	0.9082
Ti3361		0.001698	Cts/S	0.00005100	2.984
Tl1908		92.14	Cts/S	1.987	2.157
V2924		14,520	Cts/S	61.05	0.4204
Zn2062		6,247	Cts/S	22.24	0.3560
Y371.030		9,243.3	Cts/S	19.885	0.21513
Y029A		256,990	Cts/S	3,554.0	1.3829
Y029R		2,485.9	Cts/S	43.454	1.7480

STD 1

Acquire Date: 2/1/2019 8:55:56AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.5044	ppm	0.005034	0.9980	.5000	Rel(%)	Pass	
Al3961		20.31	ppm	0.08960	0.4412	20.00	Rel(%)	Pass	
As1890		1.032	ppm	0.002635	0.2555	1.000	Rel(%)	Pass	
Au2427	**F**	**0.8013**	**ppm**	**0.6703**	**83.66**	**1.000**	**Rel(%)**	**Fail Low**	**-5.000**
B_2089		1.014	ppm	0.0006090	0.06002	1.000	Rel(%)	Pass	
Ba4934		1.020	ppm	0.006181	0.6059	1.000	Rel(%)	Pass	
Be3130		1.025	ppm	0.009416	0.9182	1.000	Rel(%)	Pass	
Ca3179		20.54	ppm	0.1068	0.5202	20.00	Rel(%)	Pass	
Cd2144		1.027	ppm	0.001473	0.1434	1.000	Rel(%)	Pass	
Co2286		1.021	ppm	0.002198	0.2153	1.000	Rel(%)	Pass	
Cr2677		1.022	ppm	0.007532	0.7371	1.000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

STD 1

Acquire Date: 2/1/2019 8:55:56AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Cu327.39		1.013	ppm	0.01482	1.463	1.000	Rel(%)	Pass	
Fe2395		20.19	ppm	0.04361	0.2160	20.00	Rel(%)	Pass	
K7694		20.23	ppm	0.1574	0.7781	20.00	Rel(%)	Pass	
Mg2790		20.73	ppm	0.2019	0.9743	20.00	Rel(%)	Pass	
Mn2576		1.020	ppm	0.01044	1.023	1.000	Rel(%)	Pass	
Mo2020		1.026	ppm	0.001511	0.1474	1.000	Rel(%)	Pass	
Na5895		20.00	ppm	0.2130	1.065	20.00	Rel(%)	Pass	
Ni2316		1.025	ppm	0.001062	0.1036	1.000	Rel(%)	Pass	
Pb2203		1.027	ppm	0.004260	0.4146	1.000	Rel(%)	Pass	
Sb2068		1.023	ppm	0.006085	0.5949	1.000	Rel(%)	Pass	
Se1960		1.036	ppm	0.008407	0.8118	1.000	Rel(%)	Pass	
Si2124		10.14	ppm	0.1089	1.074	10.00	Rel(%)	Pass	
Sn1899		1.027	ppm	0.004491	0.4374	1.000	Rel(%)	Pass	
Sr4077		1.017	ppm	0.003966	0.3901	1.000	Rel(%)	Pass	
Ti3361		1.001	ppm	0.006318	0.6313	1.000	Rel(%)	Pass	
Tl1908		1.025	ppm	0.01763	1.721	1.000	Rel(%)	Pass	
V2924		1.013	ppm	0.003504	0.3458	1.000	Rel(%)	Pass	
Zn2062		1.031	ppm	0.002216	0.2149	1.000	Rel(%)	Pass	
Y371.030		9,334.2	Cts/S	21.133	0.22640				
Y029A		261,750	Cts/S	882.78	0.33726				
Y029R		2,514.5	Cts/S	33.000	1.3124				

ICV/CCV

Acquire Date: 2/1/2019 9:00:39AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2523	ppm	0.0003220	0.1277	.2500	Rel(%)	Pass	
Al3961		14.54	ppm	0.06544	0.4500	15.00	Rel(%)	Pass	
As1890		0.5074	ppm	0.005514	1.087	.5000	Rel(%)	Pass	
Au2427		74.74	ppm	2.391	3.200				
B_2089	**W**	**0.4584**	**ppm**	**0.001107**	**0.2415**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ba4934		0.5065	ppm	0.001048	0.2069	.5000	Rel(%)	Pass	
Be3130		0.5112	ppm	0.001832	0.3584	.5000	Rel(%)	Pass	
Ca3179		15.42	ppm	0.1374	0.8911	15.00	Rel(%)	Pass	
Cd2144		0.5088	ppm	0.0009060	0.1781	.5000	Rel(%)	Pass	
Co2286		0.5070	ppm	0.0005240	0.1033	.5000	Rel(%)	Pass	
Cr2677		0.5032	ppm	0.002068	0.4109	.5000	Rel(%)	Pass	
Cu327.39		0.4996	ppm	0.002668	0.5340	.5000	Rel(%)	Pass	
Fe2395		15.03	ppm	0.05688	0.3785	15.00	Rel(%)	Pass	
K7694	**F**	**13.44**	**ppm**	**0.05609**	**0.4175**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mg2790		15.73	ppm	0.3586	2.280	15.00	Rel(%)	Pass	
Mn2576		0.4956	ppm	0.003850	0.7769	.5000	Rel(%)	Pass	
Mo2020		0.5055	ppm	0.001695	0.3353	.5000	Rel(%)	Pass	
Na5895	**F**	**12.95**	**ppm**	**0.1703**	**1.315**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Ni2316		0.5024	ppm	0.002663	0.5301	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 9:00:39AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Pb2203		0.5086	ppm	0.002819	0.5543	.5000	Rel(%)	Pass	
Sb2068		0.4991	ppm	0.001800	0.3606	.5000	Rel(%)	Pass	
Se1960		0.5077	ppm	0.001438	0.2832	.5000	Rel(%)	Pass	
Si2124		0.4537	ppm	0.002659	0.5861				
Sn1899		0.5080	ppm	0.003376	0.6647	.5000	Rel(%)	Pass	
Sr4077		0.5009	ppm	0.0009130	0.1823	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.4616**	**ppm**	**0.01260**	**2.729**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Tl1908	**W**	**0.5397**	**ppm**	**0.01639**	**3.036**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.5055	ppm	0.001407	0.2784	.5000	Rel(%)	Pass	
Zn2062		0.5099	ppm	0.002104	0.4128	.5000	Rel(%)	Pass	
Y371.030		10,077	Cts/S	4.6274	0.045919				
Y029A		282,370	Cts/S	3,256.5	1.1533				
Y029R		2,752.8	Cts/S	25.394	0.92250				

ICB/CCB

Acquire Date: 2/1/2019 9:05:26AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001040	ppm	0.0002370	22.75	.0000	Abs	Pass	
Al3961		0.01226	ppm	0.04235	345.4	.0000	Abs	Pass	
As1890		0.00001100	ppm	0.0002380	2,245	.0000	Abs	Pass	
Au2427		1.521	ppm	0.1705	11.21				
B_2089		0.0006000	ppm	0.0006220	103.8	.0000	Abs	Pass	
Ba4934		-0.0004850	ppm	0.0005860	120.9	.0000	Abs	Pass	
Be3130		0.0002180	ppm	0.0005000	228.9	.0000	Abs	Pass	
Ca3179		-0.01124	ppm	0.003547	31.56	.0000	Abs	Pass	
Cd2144		0.000001000	ppm	0.0001210	9,839	.0000	Abs	Pass	
Co2286		0.0002590	ppm	0.0001670	64.66	.0000	Abs	Pass	
Cr2677		0.0005640	ppm	0.00009900	17.47	.0000	Abs	Pass	
Cu327.39		-0.0007070	ppm	0.001178	166.6	.0000	Abs	Pass	
Fe2395		0.02185	ppm	0.006024	27.57	.0000	Abs	Pass	
K7694		-0.04494	ppm	0.1262	280.8	.0000	Abs	Pass	
Mg2790		0.006194	ppm	0.01147	185.2	.0000	Abs	Pass	
Mn2576		-0.00003200	ppm	0.00004300	134.4	.0000	Abs	Pass	
Mo2020		0.0008760	ppm	0.0003340	38.14	.0000	Abs	Pass	
Na5895		0.1407	ppm	0.09664	68.69	.0000	Abs	Pass	
Ni2316		-0.0004390	ppm	0.0003330	75.82	.0000	Abs	Pass	
Pb2203		0.003434	ppm	0.0008640	25.15	.0000	Abs	Pass	
Sb2068		0.0008470	ppm	0.002050	242.0	.0000	Abs	Pass	
Se1960		-0.001417	ppm	0.001456	102.8	.0000	Abs	Pass	
Si2124		-0.004686	ppm	0.0006820	14.56				
Sn1899		0.0002390	ppm	0.0003620	151.5	.0000	Abs	Pass	
Sr4077		-0.0001010	ppm	0.0001160	114.6	.0000	Abs	Pass	
Ti3361		0.003715	ppm	0.002947	79.32	.0000	Abs	Pass	
Tl1908		0.005000	ppm	0.005904	118.1	.0000	Abs	Pass	
V2924		0.0001350	ppm	0.0004420	326.5	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 9:05:26AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Zn2062		-0.0001910	ppm	0.0000	0.1518	.0000	Abs	Pass	
Y371.030		10,117	Cts/S	20.427	0.20191				
Y029A		286,450	Cts/S	199.98	0.069813				
Y029R		2,727.3	Cts/S	38.438	1.4094				

CRI

Acquire Date: 2/1/2019 9:10:24AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.01069	ppm	0.0004160	3.896	.0100	Abs	Pass	
Al3961		0.4160	ppm	0.01318	3.169	.4000	Abs	Pass	
As1890		0.009717	ppm	0.001413	14.54	.0100	Abs	Pass	
Au2427		3.163	ppm	0.3595	11.37				
B_2089	**F**	**0.1508**	**ppm**	**0.0003910**	**0.2593**	**.1000**	**Abs**	**Fail High**	**.1500**
Ba4934		0.009810	ppm	0.0003520	3.588	.0100	Abs	Pass	
Be3130		0.004219	ppm	0.0001060	2.502	.0040	Abs	Pass	
Ca3179		0.4191	ppm	0.006754	1.612	.4000	Abs	Pass	
Cd2144		0.004244	ppm	0.00004000	0.9448	.0040	Abs	Pass	
Co2286		0.004531	ppm	0.0001170	2.582	.0040	Abs	Pass	
Cr2677		0.02081	ppm	0.0005450	2.618	.0200	Abs	Pass	
Cu327.39		0.04203	ppm	0.001081	2.571	.0400	Abs	Pass	
Fe2395		0.6298	ppm	0.003598	0.5713	.6000	Abs	Pass	
K7694		1.952	ppm	0.06016	3.082	2.000	Abs	Pass	
Mg2790		0.3773	ppm	0.03130	8.295	.4000	Abs	Pass	
Mn2576		0.04156	ppm	0.0002420	0.5813	.0400	Abs	Pass	
Mo2020		0.02119	ppm	0.00003100	0.1487	.0200	Abs	Pass	
Na5895		1.319	ppm	0.07007	5.313	1.000	Abs	Pass	
Ni2316		0.02038	ppm	0.0007840	3.846	.0200	Abs	Pass	
Pb2203		0.01243	ppm	0.001686	13.57	.0100	Abs	Pass	
Sb2068		0.02167	ppm	0.0002560	1.183	.0200	Abs	Pass	
Se1960		0.03912	ppm	0.001880	4.804	.0400	Abs	Pass	
Si2124		1.003	ppm	0.01670	1.666				
Sn1899		0.02158	ppm	0.0004530	2.098	.0200	Abs	Pass	
Sr4077		0.01018	ppm	0.0006350	6.232	.0100	Abs	Pass	
Ti3361		0.02113	ppm	0.006334	29.97	.0200	Abs	Pass	
Tl1908		0.02084	ppm	0.009188	44.10	.0200	Abs	Pass	
V2924		0.02135	ppm	0.0001400	0.6547	.0200	Abs	Pass	
Zn2062		0.04121	ppm	0.0002660	0.6443	.0400	Abs	Pass	
Y371.030		9,728.8	Cts/S	57.132	0.58725				
Y029A		274,350	Cts/S	3,488.5	1.2715				
Y029R		2,631.4	Cts/S	31.842	1.2101				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSA

Acquire Date: 2/1/2019 9:15:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001218	ppm	0.0001860	15.29	.0000	Abs	Pass	
Al3961		498.4	ppm	5.011	1.005	500.0	Abs	Pass	
As1890		0.004013	ppm	0.001532	38.19	.0000	Abs	Pass	
Au2427		24.48	ppm	0.5899	2.410				
B_2089		-0.01386	ppm	0.003457	24.95				
Ba4934		-0.001312	ppm	0.0002910	22.19	.0000	Abs	Pass	
Be3130		-0.0004470	ppm	0.0002520	56.47	.0000	Abs	Pass	
Ca3179		532.4	ppm	4.983	0.9359	500.0	Abs	Pass	
Cd2144		0.000002000	ppm	0.00009000	5,877	.0000	Abs	Pass	
Co2286		-0.001078	ppm	0.00002200	1.997	.0000	Abs	Pass	
Cr2677		0.006838	ppm	0.0009560	13.99	.0000	Abs	Pass	
Cu327.39		-0.01070	ppm	0.0001820	1.699	.0000	Abs	Pass	
Fe2395		508.4	ppm	6.196	1.219	500.0	Abs	Pass	
K7694		1.159	ppm	0.04672	4.029	.0000	Abs	Pass	
Mg2790		525.8	ppm	1.984	0.3772	500.0	Abs	Pass	
Mn2576		0.01609	ppm	0.00001900	0.1189	.0000	Abs	Pass	
Mo2020		-0.001658	ppm	0.0001250	7.545	.0000	Abs	Pass	
Na5895		2.045	ppm	0.01756	0.8588	.0000	Abs	Pass	
Ni2316		-0.0005550	ppm	0.00007100	12.71	.0000	Abs	Pass	
Pb2203		-0.003954	ppm	0.002528	63.95	.0000	Abs	Pass	
Sb2068		0.008348	ppm	0.001117	13.37	.0000	Abs	Pass	
Se1960		-0.0004920	ppm	0.002375	483.2	.0000	Abs	Pass	
Si2124		0.03834	ppm	0.0009150	2.388				
Sn1899		-0.005378	ppm	0.0003480	6.464	.0000	Abs	Pass	
Sr4077		0.001355	ppm	0.00008300	6.144	.0000	Abs	Pass	
Ti3361		0.01732	ppm	0.007571	43.72	.0000	Abs	Pass	
Tl1908		0.004116	ppm	0.008463	205.6	.0000	Abs	Pass	
V2924		0.001661	ppm	0.00005300	3.216	.0000	Abs	Pass	
Zn2062		0.007149	ppm	0.0006980	9.767	.0000	Abs	Pass	
Y371.030		6,669.6	Cts/S	46.543	0.69785				
Y029A		189,790	Cts/S	437.72	0.23063				
Y029R		1,982.1	Cts/S	1.0095	0.050930				

ICSAB

Acquire Date: 2/1/2019 9:20:05AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.1326	ppm	0.001385	1.044	.1250	Rel(%)	Pass	
Al3961		500.8	ppm	4.071	0.8130	500.0	Rel(%)	Pass	
As1890		0.2666	ppm	0.006139	2.302	.2500	Rel(%)	Pass	
Au2427		24.62	ppm	0.4277	1.737				
B_2089		0.3411	ppm	0.0003890	0.1139				
Ba4934		0.2830	ppm	0.004015	1.419	.2500	Rel(%)	Pass	
Be3130		0.2794	ppm	0.0007880	0.2820	.2500	Rel(%)	Pass	
Ca3179		531.4	ppm	3.941	0.7416	500.0	Rel(%)	Pass	
Cd2144		0.2407	ppm	0.0001530	0.06354	.2500	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSAB

Acquire Date: 2/1/2019 9:20:05AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Co2286		0.2408	ppm	0.0006640	0.2756	.2500	Rel(%)	Pass	
Cr2677		0.2600	ppm	0.001318	0.5068	.2500	Rel(%)	Pass	
Cu327.39		0.2627	ppm	0.001879	0.7154	.2500	Rel(%)	Pass	
Fe2395		506.7	ppm	3.632	0.7168	500.0	Rel(%)	Pass	
K7694		0.7137	ppm	0.05988	8.389				
Mg2790		523.7	ppm	1.685	0.3218	500.0	Rel(%)	Pass	
Mn2576		0.2638	ppm	0.0009250	0.3509	.2500	Rel(%)	Pass	
Mo2020		0.2550	ppm	0.0004120	0.1617	.2500	Rel(%)	Pass	
Na5895		2.412	ppm	0.02547	1.056				
Ni2316		0.2360	ppm	0.001446	0.6129	.2500	Rel(%)	Pass	
Pb2203		0.2307	ppm	0.003512	1.522	.2500	Rel(%)	Pass	
Sb2068		0.2637	ppm	0.002303	0.8733	.2500	Rel(%)	Pass	
Se1960		0.2426	ppm	0.005405	2.228	.2500	Rel(%)	Pass	
Si2124		0.3802	ppm	0.0008860	0.2331				
Sn1899		0.2383	ppm	0.0005440	0.2281	.2500	Rel(%)	Pass	
Sr4077		0.2810	ppm	0.003226	1.148	.2500	Rel(%)	Pass	
Ti3361	**F**	**0.3904**	**ppm**	**0.004784**	**1.225**	**.2500**	**Rel(%)**	**Fail High**	**20.00**
Tl1908		0.2201	ppm	0.003151	1.432	.2500	Rel(%)	Pass	
V2924		0.2635	ppm	0.001933	0.7335	.2500	Rel(%)	Pass	
Zn2062		0.2457	ppm	0.0006450	0.2626	.2500	Rel(%)	Pass	
Y371.030		6,511.1	Cts/S	10.212	0.15684				
Y029A		187,830	Cts/S	2,949.2	1.5701				
Y029R		1,921.6	Cts/S	5.5151	0.28701				

ICV/CCV

Acquire Date: 2/1/2019 9:24:43AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2494	ppm	0.0003060	0.1229	.2500	Rel(%)	Pass	
Al3961		14.74	ppm	0.1237	0.8392	15.00	Rel(%)	Pass	
As1890		0.5094	ppm	0.005605	1.100	.5000	Rel(%)	Pass	
Au2427		73.92	ppm	1.191	1.611				
B_2089		0.4840	ppm	0.003216	0.6645	.5000	Rel(%)	Pass	
Ba4934		0.5026	ppm	0.002902	0.5774	.5000	Rel(%)	Pass	
Be3130		0.5058	ppm	0.0007950	0.1572	.5000	Rel(%)	Pass	
Ca3179		15.52	ppm	0.05810	0.3743	15.00	Rel(%)	Pass	
Cd2144		0.5095	ppm	0.002836	0.5566	.5000	Rel(%)	Pass	
Co2286		0.5121	ppm	0.002258	0.4409	.5000	Rel(%)	Pass	
Cr2677		0.5040	ppm	0.001831	0.3632	.5000	Rel(%)	Pass	
Cu327.39		0.5099	ppm	0.003993	0.7832	.5000	Rel(%)	Pass	
Fe2395		15.37	ppm	0.1391	0.9051	15.00	Rel(%)	Pass	
K7694		14.30	ppm	0.3052	2.134	15.00	Rel(%)	Pass	
Mg2790		15.49	ppm	0.09207	0.5944	15.00	Rel(%)	Pass	
Mn2576		0.4994	ppm	0.004432	0.8874	.5000	Rel(%)	Pass	
Mo2020		0.5097	ppm	0.003307	0.6489	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 9:24:43AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Na5895		14.43	ppm	0.05966	0.4134	15.00	Rel(%)	Pass	
Ni2316		0.5033	ppm	0.0009200	0.1829	.5000	Rel(%)	Pass	
Pb2203		0.5098	ppm	0.003603	0.7067	.5000	Rel(%)	Pass	
Sb2068		0.4990	ppm	0.0004400	0.08826	.5000	Rel(%)	Pass	
Se1960		0.5076	ppm	0.001225	0.2413	.5000	Rel(%)	Pass	
Si2124		0.4882	ppm	0.007594	1.555				
Sn1899		0.5075	ppm	0.001566	0.3086	.5000	Rel(%)	Pass	
Sr4077		0.4999	ppm	0.002612	0.5226	.5000	Rel(%)	Pass	
Ti3361		0.4797	ppm	0.01821	3.796	.5000	Rel(%)	Pass	
Tl1908	**F**	**0.5615**	**ppm**	**0.0006310**	**0.1124**	**.5000**	**Rel(%)**	**Fail High**	**10.00**
V2924		0.5080	ppm	0.00002200	0.004411	.5000	Rel(%)	Pass	
Zn2062		0.5100	ppm	0.001580	0.3098	.5000	Rel(%)	Pass	
Y371.030		9,487.3	Cts/S	45.707	0.48177				
Y029A		265,500	Cts/S	2,430.2	0.91534				
Y029R		2,547.0	Cts/S	7.2185	0.28341				

ICB/CCB

Acquire Date: 2/1/2019 9:29:29AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001093	ppm	0.00001800	1.645	.0000	Abs	Pass	
Al3961		0.1011	ppm	0.008839	8.746	.0000	Abs	Pass	
As1890		-0.002008	ppm	0.003260	162.4	.0000	Abs	Pass	
Au2427		1.449	ppm	0.4029	27.81				
B_2089		0.0007220	ppm	0.00001500	2.103	.0000	Abs	Pass	
Ba4934		-0.0003510	ppm	0.0004750	135.5	.0000	Abs	Pass	
Be3130		0.0002880	ppm	0.0007090	246.3	.0000	Abs	Pass	
Ca3179		0.03760	ppm	0.0001040	0.2775	.0000	Abs	Pass	
Cd2144		0.00003100	ppm	0.00005200	168.3	.0000	Abs	Pass	
Co2286		0.0001200	ppm	0.0002210	184.0	.0000	Abs	Pass	
Cr2677		0.0001970	ppm	0.0002960	150.3	.0000	Abs	Pass	
Cu327.39		0.00008300	ppm	0.0002790	337.9	.0000	Abs	Pass	
Fe2395		0.07470	ppm	0.01687	22.58	.0000	Abs	Pass	
K7694		0.008472	ppm	0.03517	415.1	.0000	Abs	Pass	
Mg2790		-0.1235	ppm	0.04701	38.08	.0000	Abs	Pass	
Mn2576		0.00008300	ppm	0.00007200	87.10	.0000	Abs	Pass	
Mo2020		0.001034	ppm	0.0003500	33.84	.0000	Abs	Pass	
Na5895		-0.07518	ppm	0.008806	11.71	.0000	Abs	Pass	
Ni2316		-0.0004840	ppm	0.0005400	111.5	.0000	Abs	Pass	
Pb2203		0.002081	ppm	0.00005600	2.672	.0000	Abs	Pass	
Sb2068		0.004428	ppm	0.0009910	22.37	.0000	Abs	Pass	
Se1960		-0.002183	ppm	0.001196	54.77	.0000	Abs	Pass	
Si2124		-0.006539	ppm	0.001169	17.88				
Sn1899		-0.001025	ppm	0.0008260	80.62	.0000	Abs	Pass	
Sr4077		0.0002620	ppm	0.0003160	120.6	.0000	Abs	Pass	
Ti3361		0.002474	ppm	0.003399	137.4	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 9:29:29AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Tl1908	**F**	**0.01036**	**ppm**	**0.008649**	**83.51**	**.0000**	**Abs**	**Fail High**	**.0100**
V2924		0.0002910	ppm	0.0003310	113.7	.0000	Abs	Pass	
Zn2062		-0.0001240	ppm	0.0001940	157.0	.0000	Abs	Pass	
Y371.030		10,404	Cts/S	43.463	0.41776				
Y029A		293,230	Cts/S	844.04	0.28784				
Y029R		2,799.2	Cts/S	11.307	0.40392				

ICV/CCV

Acquire Date: 2/1/2019 9:34:27AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2590	ppm	0.002025	0.7818	.2500	Rel(%)	Pass	
Al3961		14.74	ppm	0.04022	0.2728	15.00	Rel(%)	Pass	
As1890		0.5202	ppm	0.0006970	0.1340	.5000	Rel(%)	Pass	
Au2427		77.48	ppm	2.650	3.420				
B_2089		0.4938	ppm	0.002191	0.4437	.5000	Rel(%)	Pass	
Ba4934		0.5138	ppm	0.003244	0.6314	.5000	Rel(%)	Pass	
Be3130		0.5199	ppm	0.001302	0.2505	.5000	Rel(%)	Pass	
Ca3179		15.59	ppm	0.006615	0.04243	15.00	Rel(%)	Pass	
Cd2144		0.5231	ppm	0.0003830	0.07314	.5000	Rel(%)	Pass	
Co2286		0.5204	ppm	0.0008940	0.1718	.5000	Rel(%)	Pass	
Cr2677		0.5211	ppm	0.002845	0.5459	.5000	Rel(%)	Pass	
Cu327.39		0.5177	ppm	0.0004220	0.08159	.5000	Rel(%)	Pass	
Fe2395		15.25	ppm	0.2532	1.660	15.00	Rel(%)	Pass	
K7694		14.73	ppm	0.3334	2.263	15.00	Rel(%)	Pass	
Mg2790	**W**	**16.09**	**ppm**	**0.1473**	**0.9157**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mn2576		0.5108	ppm	0.003137	0.6142	.5000	Rel(%)	Pass	
Mo2020		0.5191	ppm	0.001113	0.2144	.5000	Rel(%)	Pass	
Na5895		14.37	ppm	0.03043	0.2118	15.00	Rel(%)	Pass	
Ni2316		0.5157	ppm	0.0005940	0.1151	.5000	Rel(%)	Pass	
Pb2203		0.5226	ppm	0.0008520	0.1631	.5000	Rel(%)	Pass	
Sb2068		0.5096	ppm	0.0001830	0.03595	.5000	Rel(%)	Pass	
Se1960		0.5186	ppm	0.005987	1.154	.5000	Rel(%)	Pass	
Si2124		0.4908	ppm	0.001475	0.3004				
Sn1899		0.5203	ppm	0.001538	0.2955	.5000	Rel(%)	Pass	
Sr4077		0.5050	ppm	0.001987	0.3934	.5000	Rel(%)	Pass	
Ti3361		0.4784	ppm	0.007599	1.588	.5000	Rel(%)	Pass	
Tl1908	**W**	**0.5491**	**ppm**	**0.005977**	**1.088**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.5232	ppm	0.001099	0.2101	.5000	Rel(%)	Pass	
Zn2062	**W**	**0.5253**	**ppm**	**0.0001150**	**0.02194**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Y371.030		9,560.2	Cts/S	15.445	0.16156				
Y029A		269,440	Cts/S	2,258.1	0.83807				
Y029R		2,588.5	Cts/S	1.7734	0.068511				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 9:39:08AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0009760	ppm	0.0001230	12.58	.0000	Abs	Pass	
Al3961		0.01994	ppm	0.01276	64.02	.0000	Abs	Pass	
As1890		-0.0002310	ppm	0.002580	1,117	.0000	Abs	Pass	
Au2427		1.674	ppm	0.3936	23.51				
B_2089		0.0004690	ppm	0.0008320	177.3	.0000	Abs	Pass	
Ba4934		-0.002235	ppm	0.0005360	23.98	.0000	Abs	Pass	
Be3130		-0.0001460	ppm	0.0003480	238.1	.0000	Abs	Pass	
Ca3179		-0.001382	ppm	0.02498	1,807	.0000	Abs	Pass	
Cd2144		0.00004400	ppm	0.00002700	60.56	.0000	Abs	Pass	
Co2286		0.000007000	ppm	0.0001320	1,799	.0000	Abs	Pass	
Cr2677		0.0004850	ppm	0.0001710	35.32	.0000	Abs	Pass	
Cu327.39		-0.001585	ppm	0.001758	110.9	.0000	Abs	Pass	
Fe2395		0.01990	ppm	0.04195	210.8	.0000	Abs	Pass	
K7694		0.2852	ppm	0.004421	1.550	.0000	Abs	Pass	
Mg2790		0.1249	ppm	0.1573	126.0	.0000	Abs	Pass	
Mn2576		0.00005900	ppm	0.0001430	241.5	.0000	Abs	Pass	
Mo2020		0.0009600	ppm	0.0008160	85.03	.0000	Abs	Pass	
Na5895		0.1917	ppm	0.004902	2.557	.0000	Abs	Pass	
Ni2316		-0.0004710	ppm	0.00004400	9.391	.0000	Abs	Pass	
Pb2203		0.001712	ppm	0.001384	80.84	.0000	Abs	Pass	
Sb2068		0.001253	ppm	0.001564	124.8	.0000	Abs	Pass	
Se1960		-0.001509	ppm	0.0005640	37.38	.0000	Abs	Pass	
Si2124		-0.009510	ppm	0.001002	10.53				
Sn1899		0.00002400	ppm	0.00007700	322.1	.0000	Abs	Pass	
Sr4077		0.0001350	ppm	0.0002810	207.9	.0000	Abs	Pass	
Ti3361		0.003877	ppm	0.0004070	10.50	.0000	Abs	Pass	
Tl1908		-0.002764	ppm	0.006762	244.7	.0000	Abs	Pass	
V2924		0.0004890	ppm	0.00009300	19.07	.0000	Abs	Pass	
Zn2062		-0.0001570	ppm	0.00004500	28.59	.0000	Abs	Pass	
Y371.030		10,129	Cts/S	0.12469	0.0012310				
Y029A		286,390	Cts/S	1,253.5	0.43769				
Y029R		2,705.4	Cts/S	4.3416	0.16048				

ICV/CCV

Acquire Date: 2/1/2019 10:50:33AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2460	ppm	0.001275	0.5181	.2500	Rel(%)	Pass	
Al3961	**W**	**13.90**	**ppm**	**0.1553**	**1.117**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
As1890		0.4997	ppm	0.004593	0.9192	.5000	Rel(%)	Pass	
Au2427		73.29	ppm	2.172	2.964				
B_2089		0.4792	ppm	0.001750	0.3652	.5000	Rel(%)	Pass	
Ba4934		0.4767	ppm	0.001999	0.4192	.5000	Rel(%)	Pass	
Be3130		0.4804	ppm	0.004267	0.8882	.5000	Rel(%)	Pass	
Ca3179		14.48	ppm	0.04828	0.3334	15.00	Rel(%)	Pass	
Cd2144		0.5022	ppm	0.0005300	0.1056	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 10:50:33AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Co2286		0.5026	ppm	0.001766	0.3514	.5000	Rel(%)	Pass	
Cr2677		0.4946	ppm	0.00004700	0.009509	.5000	Rel(%)	Pass	
Cu327.39		0.4966	ppm	0.0009290	0.1871	.5000	Rel(%)	Pass	
Fe2395		14.32	ppm	0.02770	0.1935	15.00	Rel(%)	Pass	
K7694		14.50	ppm	0.1095	0.7548	15.00	Rel(%)	Pass	
Mg2790		14.53	ppm	0.1578	1.086	15.00	Rel(%)	Pass	
Mn2576		0.4869	ppm	0.00007500	0.01550	.5000	Rel(%)	Pass	
Mo2020		0.5021	ppm	0.001525	0.3037	.5000	Rel(%)	Pass	
Na5895		14.74	ppm	0.1896	1.286	15.00	Rel(%)	Pass	
Ni2316		0.4944	ppm	0.001866	0.3775	.5000	Rel(%)	Pass	
Pb2203		0.5058	ppm	0.003416	0.6755	.5000	Rel(%)	Pass	
Sb2068		0.4902	ppm	0.007437	1.517	.5000	Rel(%)	Pass	
Se1960		0.4950	ppm	0.002211	0.4466	.5000	Rel(%)	Pass	
Si2124		0.4967	ppm	0.002351	0.4732				
Sn1899		0.5026	ppm	0.002008	0.3996	.5000	Rel(%)	Pass	
Sr4077		0.4761	ppm	0.003021	0.6346	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.4546**	**ppm**	**0.0003000**	**0.06598**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Tl1908	**F**	**0.5505**	**ppm**	**0.004808**	**0.8734**	**.5000**	**Rel(%)**	**Fail High**	**10.00**
V2924		0.4979	ppm	0.0005040	0.1013	.5000	Rel(%)	Pass	
Zn2062		0.5051	ppm	0.002777	0.5498	.5000	Rel(%)	Pass	
Y371.030		9,444.6	Cts/S	59.455	0.62951				
Y029A		264,900	Cts/S	1,357.4	0.51242				
Y029R		2,477.2	Cts/S	18.320	0.73955				

ICB/CCB

Acquire Date: 2/1/2019 10:55:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0003240	ppm	0.000003000	0.9384	.0000	Abs	Pass	
Al3961		0.009708	ppm	0.02737	281.9	.0000	Abs	Pass	
As1890		0.001275	ppm	0.003162	247.9	.0000	Abs	Pass	
Au2427		1.194	ppm	0.09919	8.304				
B_2089		0.0005640	ppm	0.0008920	158.0	.0000	Abs	Pass	
Ba4934		-0.0002680	ppm	0.0009450	352.5	.0000	Abs	Pass	
Be3130		-0.0001370	ppm	0.0001170	85.18	.0000	Abs	Pass	
Ca3179		-0.001865	ppm	0.04388	2,352	.0000	Abs	Pass	
Cd2144		0.00002700	ppm	0.00003800	140.9	.0000	Abs	Pass	
Co2286		0.0001000	ppm	0.00004700	47.34	.0000	Abs	Pass	
Cr2677		0.0008180	ppm	0.0002850	34.87	.0000	Abs	Pass	
Cu327.39		-0.0005570	ppm	0.0008390	150.6	.0000	Abs	Pass	
Fe2395		0.03515	ppm	0.01161	33.02	.0000	Abs	Pass	
K7694		0.3620	ppm	0.002615	0.7223	.0000	Abs	Pass	
Mg2790		0.06670	ppm	0.1284	192.4	.0000	Abs	Pass	
Mn2576		-0.0001710	ppm	0.000004000	2.248	.0000	Abs	Pass	
Mo2020		0.001097	ppm	0.0003550	32.42	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 10:55:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Na5895		0.5536	ppm	0.07024	12.69	.0000	Abs	Pass	
Ni2316		-0.0006490	ppm	0.0002880	44.39	.0000	Abs	Pass	
Pb2203		0.001721	ppm	0.0009730	56.53	.0000	Abs	Pass	
Sb2068		0.003876	ppm	0.001321	34.07	.0000	Abs	Pass	
Se1960		-0.0006820	ppm	0.005518	809.6	.0000	Abs	Pass	
Si2124		-0.004899	ppm	0.0004070	8.304				
Sn1899		-0.0002150	ppm	0.0009860	458.9	.0000	Abs	Pass	
Sr4077		0.00005400	ppm	0.0001220	228.4	.0000	Abs	Pass	
Ti3361		0.002865	ppm	0.004398	153.5	.0000	Abs	Pass	
Tl1908		0.001710	ppm	0.003827	223.8	.0000	Abs	Pass	
V2924		0.0007720	ppm	0.0005630	72.99	.0000	Abs	Pass	
Zn2062		-0.0001340	ppm	0.0001580	117.8	.0000	Abs	Pass	
Y371.030		9,914.9	Cts/S	17.055	0.17201				
Y029A		285,060	Cts/S	5,611.4	1.9685				
Y029R		2,599.9	Cts/S	28.625	1.1010				

720-90949-e-4-a

Acquire Date: 2/1/2019 11:12:28AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0001230	ppm	0.0003790	308.1
Al3961		7.988	ppm	0.05555	0.6954
As1890		0.06939	ppm	0.0005650	0.8139
Au2427		12.49	ppm	0.06067	0.4859
B_2089		0.01563	ppm	0.0005680	3.636
Ba4934		0.09989	ppm	0.0001690	0.1691
Be3130		0.0001380	ppm	0.0005360	387.7
Ca3179		13.04	ppm	0.008576	0.06579
Cd2144		0.001666	ppm	0.00005500	3.297
Co2286		0.02896	ppm	0.00007700	0.2671
Cr2677		0.06982	ppm	0.0007700	1.103
Cu327.39		0.8050	ppm	0.002065	0.2565
Fe2395		225.2	ppm	2.964	1.316
K7694		2.071	ppm	0.2726	13.16
Mg2790		21.24	ppm	0.2375	1.119
Mn2576		1.263	ppm	0.001520	0.1203
Mo2020		0.004076	ppm	0.00002600	0.6314
Na5895		2.460	ppm	0.01636	0.6650
Ni2316		0.1756	ppm	0.0003970	0.2263
Pb2203		2.063	ppm	0.006329	0.3068
Sb2068		0.04403	ppm	0.001407	3.195
Se1960		0.001967	ppm	0.004631	235.5
Si2124		1.062	ppm	0.006897	0.6497
Sn1899		0.1243	ppm	0.0003320	0.2671
Sr4077		0.1425	ppm	0.002258	1.585
Ti3361		0.4188	ppm	0.002052	0.4900

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90949-e-4-a

Acquire Date: 2/1/2019 11:12:28AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Tl1908		-0.004921	ppm	0.00003700	0.7471
V2924		0.06447	ppm	0.0006500	1.008
Zn2062		0.4227	ppm	0.001930	0.4567
Y371.030		7,723.4	Cts/S	10.888	0.14097
Y029A		223,280	Cts/S	333.46	0.14935
Y029R		2,092.2	Cts/S	1.6400	0.078386

720-91048-e-21-b

Acquire Date: 2/1/2019 11:17:11AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01132	ppm	0.001226	10.83
Al3961		31.17	ppm	0.4493	1.441
As1890		0.08527	ppm	0.0003400	0.3990
Au2427		21.27	ppm	0.6078	2.858
B_2089		0.2767	ppm	0.001118	0.4040
Ba4934		2.767	ppm	0.03255	1.176
Be3130		0.0005750	ppm	0.0003420	59.52
Ca3179		89.18	ppm	0.8830	0.9901
Cd2144		0.02855	ppm	0.0001320	0.4608
Co2286		0.02552	ppm	0.00007100	0.2778
Cr2677		0.1122	ppm	0.001976	1.762
Cu327.39		1.550	ppm	0.0005870	0.03789
Fe2395		378.7	ppm	4.229	1.117
K7694		5.479	ppm	0.04317	0.7878
Mg2790		171.2	ppm	1.740	1.016
Mn2576		2.417	ppm	0.003263	0.1350
Mo2020		0.001545	ppm	0.0001610	10.40
Na5895		8.367	ppm	0.1339	1.600
Ni2316		0.1242	ppm	0.000006000	0.004691
Pb2203		35.43	ppm	0.04057	0.1145
Sb2068		0.07065	ppm	0.0009790	1.386
Se1960		0.008446	ppm	0.004531	53.65
Si2124		2.872	ppm	0.02072	0.7213
Sn1899		2.781	ppm	0.002807	0.1009
Sr4077		0.5570	ppm	0.005343	0.9593
Ti3361		0.8089	ppm	0.005837	0.7216
Tl1908		-0.003701	ppm	0.005549	149.9
V2924		0.07557	ppm	0.0007950	1.052
Zn2062		12.18	ppm	0.009272	0.07615
Y371.030		7,251.5	Cts/S	5.0739	0.069971
Y029A		209,520	Cts/S	256.89	0.12261
Y029R		1,990.1	Cts/S	8.6996	0.43715

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91068-b-2-a

Acquire Date: 2/1/2019 11:21:48AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001617	ppm	0.0005730	35.45
Al3961		117.8	ppm	1.191	1.011
As1890		0.1390	ppm	0.0005050	0.3638
Au2427		12.44	ppm	0.6179	4.965
B_2089		0.02649	ppm	0.0006160	2.325
Ba4934		1.212	ppm	0.01652	1.363
Be3130		0.003065	ppm	0.0001790	5.855
Ca3179		50.43	ppm	0.5315	1.054
Cd2144		0.002550	ppm	0.0001990	7.811
Co2286		0.1340	ppm	0.00005300	0.03949
Cr2677		0.6109	ppm	0.002907	0.4759
Cu327.39		0.3503	ppm	0.001164	0.3323
Fe2395		215.0	ppm	0.7358	0.3422
K7694		12.52	ppm	0.1417	1.132
Mg2790		-11.63	ppm	0.5087	4.374
Mn2576		4.183	ppm	0.02135	0.5105
Mo2020		0.0001970	ppm	0.0005090	259.1
Na5895		1.671	ppm	0.1335	7.992
Ni2316		0.8687	ppm	0.003879	0.4466
Pb2203		0.1913	ppm	0.001815	0.9492
Sb2068		0.005592	ppm	0.0004690	8.390
Se1960		0.002920	ppm	0.00001600	0.5619
Si2124		3.856	ppm	0.05464	1.417
Sn1899		-0.01171	ppm	0.0004770	4.072
Sr4077		0.1754	ppm	0.001412	0.8048
Ti3361		4.518	ppm	0.03901	0.8635
Tl1908		-0.001133	ppm	0.003633	320.6
V2924		0.4465	ppm	0.0006870	0.1540
Zn2062		0.4817	ppm	0.001299	0.2696
Y371.030		9,617.6	Cts/S	50.603	0.52615
Y029A		271,550	Cts/S	765.55	0.28192
Y029R		2,556.1	Cts/S	42.535	1.6640

720-91010-d-1-a

Acquire Date: 2/1/2019 11:26:34AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0009520	ppm	0.0003510	36.87
Al3961		43.08	ppm	0.003925	0.009112
As1890		0.04822	ppm	0.003217	6.672
Au2427		3.933	ppm	0.3239	8.235
B_2089		0.09157	ppm	0.0001660	0.1808
Ba4934		1.150	ppm	0.003897	0.3389
Be3130		0.001830	ppm	0.0002420	13.23
Ca3179		65.13	ppm	0.2544	0.3906

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-d-1-a

Acquire Date: 2/1/2019 11:26:34AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.0006320	ppm	0.000006000	0.9574
Co2286		0.03763	ppm	0.0002100	0.5589
Cr2677		0.1668	ppm	0.001447	0.8676
Cu327.39		0.1331	ppm	0.002274	1.709
Fe2395		70.07	ppm	0.5381	0.7679
K7694		5.613	ppm	0.3501	6.237
Mg2790		114.0	ppm	0.2859	0.2507
Mn2576		1.123	ppm	0.006692	0.5961
Mo2020		0.01897	ppm	0.0004080	2.150
Na5895		4.763	ppm	0.06292	1.321
Ni2316		0.1761	ppm	0.0001450	0.08213
Pb2203		0.1169	ppm	0.001254	1.074
Sb2068		0.0008150	ppm	0.001022	125.5
Se1960		0.001225	ppm	0.007008	572.1
Si2124		2.380	ppm	0.01157	0.4861
Sn1899		0.007696	ppm	0.0005450	7.077
Sr4077		1.218	ppm	0.004239	0.3481
Ti3361		1.479	ppm	0.01483	1.002
Tl1908		-0.003982	ppm	0.003025	75.97
V2924		0.1713	ppm	0.001958	1.143
Zn2062		0.1978	ppm	0.0001310	0.06619
Y371.030		8,482.3	Cts/S	36.656	0.43215
Y029A		243,520	Cts/S	293.32	0.12045
Y029R		2,276.9	Cts/S	13.681	0.60087

720-91010-d-11-a

Acquire Date: 2/1/2019 11:31:17AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0006440	ppm	0.0003350	52.02
Al3961		46.06	ppm	0.3386	0.7351
As1890		0.03842	ppm	0.002665	6.936
Au2427		18.49	ppm	0.2000	1.082
B_2089		0.05184	ppm	0.002287	4.412
Ba4934		1.821	ppm	0.01740	0.9551
Be3130		0.001449	ppm	0.0001750	12.10
Ca3179		40.15	ppm	0.3393	0.8453
Cd2144		0.002689	ppm	0.0003310	12.33
Co2286		0.09704	ppm	0.000003000	0.003163
Cr2677		0.1614	ppm	0.0009340	0.5791
Cu327.39		0.5066	ppm	0.002950	0.5824
Fe2395		308.8	ppm	3.325	1.077
K7694		6.133	ppm	0.1784	2.909
Mg2790		59.14	ppm	0.3012	0.5094

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-d-11-a

Acquire Date: 2/1/2019 11:31:17AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		6.452	ppm	0.07761	1.203
Mo2020		0.0001540	ppm	0.0004500	292.1
Na5895		2.220	ppm	0.03420	1.541
Ni2316		0.2545	ppm	0.001699	0.6677
Pb2203		2.813	ppm	0.01677	0.5963
Sb2068		0.01417	ppm	0.0007300	5.156
Se1960		0.01282	ppm	0.001388	10.83
Si2124		1.198	ppm	0.01961	1.638
Sn1899		0.2276	ppm	0.0001850	0.08133
Sr4077		0.2791	ppm	0.004384	1.571
Ti3361		2.188	ppm	0.01713	0.7830
Tl1908		0.001127	ppm	0.0006500	57.66
V2924		0.1779	ppm	0.0006320	0.3552
Zn2062		0.8887	ppm	0.006159	0.6930
Y371.030		8,521.8	Cts/S	8.1210	0.095296
Y029A		246,490	Cts/S	358.29	0.14536
Y029R		2,289.6	Cts/S	10.547	0.46065

720-91010-d-12-a

Acquire Date: 2/1/2019 11:36:01AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0008050	ppm	0.0005640	70.05
Al3961		10.77	ppm	0.03689	0.3425
As1890		0.01766	ppm	0.002158	12.22
Au2427		9.258	ppm	0.1454	1.571
B_2089		0.01734	ppm	0.000009000	0.05452
Ba4934		0.5310	ppm	0.0003880	0.07309
Be3130		0.0004270	ppm	0.0002710	63.42
Ca3179		14.58	ppm	0.06984	0.4789
Cd2144		0.001638	ppm	0.00004500	2.740
Co2286		0.04805	ppm	0.0002050	0.4264
Cr2677		0.05970	ppm	0.0007360	1.232
Cu327.39		0.1905	ppm	0.0007410	0.3891
Fe2395		158.0	ppm	0.6559	0.4151
K7694		1.320	ppm	0.1103	8.360
Mg2790		23.16	ppm	0.2941	1.270
Mn2576		2.508	ppm	0.02049	0.8172
Mo2020		0.001146	ppm	0.0002320	20.24
Na5895		0.4467	ppm	0.03520	7.881
Ni2316		0.09676	ppm	0.0002460	0.2538
Pb2203		1.562	ppm	0.005858	0.3750
Sb2068		0.007500	ppm	0.0005550	7.401
Se1960		0.002522	ppm	0.001997	79.19
Si2124		0.5753	ppm	0.004584	0.7968

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-d-12-a

Acquire Date: 2/1/2019 11:36:01AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.06665	ppm	0.0003820	0.5738
Sr4077		0.09726	ppm	0.00005100	0.05192
Ti3361		0.7304	ppm	0.001532	0.2097
Tl1908		-0.007858	ppm	0.0002640	3.358
V2924		0.05434	ppm	0.001177	2.167
Zn2062		0.3064	ppm	0.0005870	0.1916
Y371.030		10,099	Cts/S	31.725	0.31413
Y029A		286,290	Cts/S	2,815.2	0.98331
Y029R		2,664.4	Cts/S	0.92614	0.034760

720-91010-d-15-a

Acquire Date: 2/1/2019 11:40:50AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0009730	ppm	0.0005540	56.93
Al3961		74.56	ppm	1.329	1.783
As1890		0.04773	ppm	0.003557	7.453
Au2427		9.223	ppm	0.3557	3.857
B_2089		0.06064	ppm	0.001053	1.737
Ba4934		2.245	ppm	0.03761	1.675
Be3130		0.003328	ppm	0.0002970	8.935
Ca3179		34.65	ppm	0.5534	1.597
Cd2144		0.005709	ppm	0.0001440	2.518
Co2286		0.1107	ppm	0.0008400	0.7585
Cr2677		0.4355	ppm	0.0005810	0.1333
Cu327.39		0.3246	ppm	0.001496	0.4609
Fe2395		168.8	ppm	2.210	1.310
K7694		11.45	ppm	0.03537	0.3088
Mg2790		36.36	ppm	0.7636	2.100
Mn2576		2.011	ppm	0.003432	0.1707
Mo2020		0.003635	ppm	0.0004330	11.90
Na5895		6.590	ppm	0.02119	0.3215
Ni2316		0.5986	ppm	0.005110	0.8535
Pb2203		0.6970	ppm	0.002779	0.3987
Sb2068		0.007742	ppm	0.0003200	4.135
Se1960		-0.001291	ppm	0.0004610	35.70
Si2124		2.087	ppm	0.02587	1.239
Sn1899		0.09411	ppm	0.0001610	0.1707
Sr4077		0.4113	ppm	0.004530	1.101
Ti3361		2.347	ppm	0.05969	2.543
Tl1908		-0.01054	ppm	0.0001280	1.212
V2924		0.2967	ppm	0.002195	0.7396
Zn2062		2.038	ppm	0.007905	0.3878
Y371.030		8,360.1	Cts/S	18.112	0.21665

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-d-15-a

Acquire Date: 2/1/2019 11:40:50AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		239,530	Cts/S	2,234.7	0.93298
Y029R		2,248.0	Cts/S	11.917	0.53012

720-91009-a-19-c

Acquire Date: 2/1/2019 11:45:31AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.002485	ppm	0.0003650	14.68
Al3961		47.01	ppm	0.08356	0.1777
As1890		0.06116	ppm	0.0006040	0.9873
Au2427		17.01	ppm	0.05267	0.3097
B_2089		-0.0004500	ppm	0.0004740	105.3
Ba4934		0.3039	ppm	0.003377	1.111
Be3130		0.003263	ppm	0.0001440	4.424
Ca3179		2.393	ppm	0.01874	0.7832
Cd2144		0.001856	ppm	0.00007200	3.877
Co2286		0.1664	ppm	0.0002970	0.1783
Cr2677		0.6340	ppm	0.001960	0.3092
Cu327.39		0.2658	ppm	0.001034	0.3892
Fe2395		302.9	ppm	1.313	0.4334
K7694		2.303	ppm	0.2353	10.22
Mg2790		-2.814	ppm	0.08660	3.077
Mn2576		0.5491	ppm	0.001154	0.2102
Mo2020		0.05230	ppm	0.0002030	0.3874
Na5895		5.115	ppm	0.02502	0.4891
Ni2316		0.5509	ppm	0.0009100	0.1651
Pb2203		0.04531	ppm	0.0005200	1.148
Sb2068		0.01541	ppm	0.0005740	3.724
Se1960		0.005308	ppm	0.008404	158.3
Si2124		0.6166	ppm	0.002432	0.3945
Sn1899		0.01564	ppm	0.0001490	0.9559
Sr4077		0.04036	ppm	0.0002120	0.5248
Ti3361		0.03763	ppm	0.006260	16.64
Tl1908		-0.01131	ppm	0.004760	42.08
V2924		0.3492	ppm	0.0001480	0.04248
Zn2062		0.2069	ppm	0.0001500	0.07269
Y371.030		9,270.4	Cts/S	17.182	0.18534
Y029A		262,930	Cts/S	468.77	0.17829
Y029R		2,448.4	Cts/S	19.394	0.79209

720-90956-a-10-b

Acquire Date: 2/1/2019 11:50:16AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0001320	ppm	0.0001850	141.0
Al3961		89.94	ppm	1.655	1.840
As1890		0.08183	ppm	0.006797	8.307
Au2427		12.64	ppm	0.2858	2.262
B_2089		0.02347	ppm	0.0007430	3.167
Ba4934		1.042	ppm	0.01744	1.674
Be3130		0.002063	ppm	0.0003330	16.14
Ca3179		52.85	ppm	0.9231	1.747
Cd2144		0.006517	ppm	0.0002760	4.235
Co2286		0.09567	ppm	0.001483	1.550
Cr2677		0.3995	ppm	0.003150	0.7886
Cu327.39		0.6291	ppm	0.004762	0.7570
Fe2395		217.1	ppm	4.580	2.110
K7694		7.883	ppm	0.2124	2.695
Mg2790		60.39	ppm	0.8633	1.430
Mn2576		3.513	ppm	0.03182	0.9056
Mo2020		0.003153	ppm	0.0002700	8.565
Na5895		2.644	ppm	0.1811	6.850
Ni2316		0.3835	ppm	0.005534	1.443
Pb2203		0.2033	ppm	0.001492	0.7340
Sb2068		0.009050	ppm	0.0001590	1.753
Se1960		0.01103	ppm	0.0005250	4.765
Si2124		1.760	ppm	0.05979	3.396
Sn1899		0.01546	ppm	0.0006990	4.519
Sr4077		0.2686	ppm	0.004659	1.734
Ti3361		3.141	ppm	0.05671	1.805
Tl1908		0.003988	ppm	0.008331	208.9
V2924		0.3934	ppm	0.0002940	0.07484
Zn2062		1.065	ppm	0.01524	1.432
Y371.030		8,904.5	Cts/S	5.6450	0.063395
Y029A		255,260	Cts/S	588.44	0.23053
Y029R		2,385.2	Cts/S	55.161	2.3127

720-90956-a-14-b

Acquire Date: 2/1/2019 11:54:56AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.006610	ppm	0.001085	16.41
Al3961		5.160	ppm	0.05331	1.033
As1890		0.08137	ppm	0.004662	5.729
Au2427		12.21	ppm	0.2419	1.982
B_2089		0.01074	ppm	0.001623	15.11
Ba4934		0.3703	ppm	0.002481	0.6700
Be3130		-0.0004310	ppm	0.0002040	47.30
Ca3179		2.006	ppm	0.02219	1.106

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-14-b

Acquire Date: 2/1/2019 11:54:56AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.003651	ppm	0.00001400	0.3947
Co2286		0.005971	ppm	0.0003860	6.473
Cr2677		0.02709	ppm	0.000001000	0.003909
Cu327.39		0.4130	ppm	0.001211	0.2933
Fe2395		213.7	ppm	0.4088	0.1913
K7694		2.568	ppm	0.04511	1.756
Mg2790		3.122	ppm	0.09690	3.104
Mn2576		0.07014	ppm	0.0004720	0.6730
Mo2020		0.01339	ppm	0.0002220	1.657
Na5895		1.850	ppm	0.008397	0.4538
Ni2316		0.01608	ppm	0.0007970	4.956
Pb2203		0.3775	ppm	0.0003880	0.1027
Sb2068		0.01737	ppm	0.001369	7.884
Se1960		0.003810	ppm	0.002321	60.94
Si2124		0.4988	ppm	0.006825	1.368
Sn1899		0.008486	ppm	0.0001230	1.445
Sr4077		0.02240	ppm	0.0007090	3.167
Ti3361		0.5533	ppm	0.0006480	0.1171
Tl1908		-0.01354	ppm	0.002780	20.53
V2924		0.04304	ppm	0.0001050	0.2437
Zn2062		0.2844	ppm	0.0005610	0.1973
Y371.030		8,615.7	Cts/S	9.0768	0.10535
Y029A		247,020	Cts/S	2,186.8	0.88526
Y029R		2,290.4	Cts/S	7.1267	0.31116

ICV/CCV

Acquire Date: 2/1/2019 11:59:44AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2377	ppm	0.0006060	0.2549	.2500	Rel(%)	Pass	
Al3961	**F**	**13.45**	**ppm**	**0.03141**	**0.2335**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
As1890		0.4889	ppm	0.001981	0.4052	.5000	Rel(%)	Pass	
Au2427		70.57	ppm	1.767	2.504				
B_2089	**W**	**0.4598**	**ppm**	**0.0006950**	**0.1511**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ba4934	**W**	**0.4639**	**ppm**	**0.001586**	**0.3418**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Be3130	**W**	**0.4682**	**ppm**	**0.001627**	**0.3474**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ca3179	**W**	**14.09**	**ppm**	**0.01275**	**0.09048**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Cd2144		0.4861	ppm	0.0007490	0.1541	.5000	Rel(%)	Pass	
Co2286		0.4881	ppm	0.0007360	0.1508	.5000	Rel(%)	Pass	
Cr2677	**W**	**0.4736**	**ppm**	**0.001152**	**0.2433**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Cu327.39		0.4876	ppm	0.002200	0.4513	.5000	Rel(%)	Pass	
Fe2395	**W**	**13.86**	**ppm**	**0.01975**	**0.1424**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
K7694	**W**	**13.99**	**ppm**	**0.4015**	**2.871**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mg2790	**W**	**14.17**	**ppm**	**0.1214**	**0.8572**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mn2576	**W**	**0.4686**	**ppm**	**0.0003240**	**0.06911**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 11:59:44AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Mo2020		0.4878	ppm	0.0005120	0.1050	.5000	Rel(%)	Pass	
Na5895	**W**	**14.05**	**ppm**	**0.2765**	**1.968**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Ni2316	**W**	**0.4735**	**ppm**	**0.001977**	**0.4176**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Pb2203		0.4845	ppm	0.003553	0.7334	.5000	Rel(%)	Pass	
Sb2068	**W**	**0.4704**	**ppm**	**0.002127**	**0.4521**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Se1960	**W**	**0.4748**	**ppm**	**0.0004230**	**0.08905**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Si2124		0.4752	ppm	0.005920	1.246				
Sn1899		0.4832	ppm	0.001993	0.4125	.5000	Rel(%)	Pass	
Sr4077	**W**	**0.4592**	**ppm**	**0.003377**	**0.7353**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ti3361	**F**	**0.4336**	**ppm**	**0.002902**	**0.6693**	**.5000**	**Rel(%)**	**Fail Low**	**-10.00**
Tl1908	**F**	**0.5570**	**ppm**	**0.02648**	**4.754**	**.5000**	**Rel(%)**	**Fail High**	**10.00**
V2924		0.4818	ppm	0.0002550	0.05286	.5000	Rel(%)	Pass	
Zn2062		0.4846	ppm	0.002290	0.4725	.5000	Rel(%)	Pass	
Y371.030		9,386.7	Cts/S	14.222	0.15152				
Y029A		270,490	Cts/S	2,189.9	0.80958				
Y029R		2,492.5	Cts/S	28.098	1.1273				

ICB/CCB

Acquire Date: 2/1/2019 12:04:30PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001741	ppm	0.0009880	56.77	.0000	Abs	Pass	
Al3961		-0.01455	ppm	0.06576	451.9	.0000	Abs	Pass	
As1890		-0.001278	ppm	0.001101	86.10	.0000	Abs	Pass	
Au2427		0.9578	ppm	0.1178	12.30				
B_2089		0.0001230	ppm	0.0003540	287.8	.0000	Abs	Pass	
Ba4934		-0.0007320	ppm	0.0007870	107.6	.0000	Abs	Pass	
Be3130		0.0004110	ppm	0.00006000	14.63	.0000	Abs	Pass	
Ca3179		-0.0002800	ppm	0.01072	3,830	.0000	Abs	Pass	
Cd2144		0.000006000	ppm	0.00006900	1,093	.0000	Abs	Pass	
Co2286		0.0004020	ppm	0.0001350	33.53	.0000	Abs	Pass	
Cr2677		0.0001350	ppm	0.0009650	715.3	.0000	Abs	Pass	
Cu327.39		-0.0002340	ppm	0.0003050	130.3	.0000	Abs	Pass	
Fe2395		0.04451	ppm	0.008526	19.16	.0000	Abs	Pass	
K7694		0.2927	ppm	0.01839	6.283	.0000	Abs	Pass	
Mg2790		-0.1197	ppm	0.05285	44.17	.0000	Abs	Pass	
Mn2576		0.00006400	ppm	0.00007700	119.8	.0000	Abs	Pass	
Mo2020		0.001459	ppm	0.00003000	2.028	.0000	Abs	Pass	
Na5895		0.5273	ppm	0.1315	24.93	.0000	Abs	Pass	
Ni2316		0.0001590	ppm	0.0004460	281.4	.0000	Abs	Pass	
Pb2203		0.001259	ppm	0.0004600	36.52	.0000	Abs	Pass	
Sb2068		0.002596	ppm	0.002149	82.78	.0000	Abs	Pass	
Se1960		-0.002262	ppm	0.004558	201.5	.0000	Abs	Pass	
Si2124		-0.005780	ppm	0.001696	29.34				
Sn1899		-0.0001030	ppm	0.0005020	487.1	.0000	Abs	Pass	
Sr4077		0.0002830	ppm	0.0001850	65.47	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 12:04:30PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ti3361		0.001771	ppm	0.003363	189.9	.0000	Abs	Pass	
Tl1908		0.0001750	ppm	0.0009420	537.7	.0000	Abs	Pass	
V2924		0.00002700	ppm	0.0001180	437.5	.0000	Abs	Pass	
Zn2062		-0.0001520	ppm	0.0001550	101.9	.0000	Abs	Pass	
Y371.030		9,820.7	Cts/S	5.0690	0.051615				
Y029A		284,350	Cts/S	4,102.1	1.4426				
Y029R		2,569.9	Cts/S	55.571	2.1624				

720-90956-a-15-b

Acquire Date: 2/1/2019 12:09:26PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001485	ppm	0.001168	78.65
Al3961		85.39	ppm	0.2925	0.3425
As1890		0.04891	ppm	0.001518	3.104
Au2427		8.841	ppm	0.1026	1.161
B_2089		0.007671	ppm	0.001886	24.58
Ba4934		0.9662	ppm	0.001987	0.2056
Be3130		0.003699	ppm	0.00007000	1.889
Ca3179		41.80	ppm	0.3046	0.7288
Cd2144		0.003617	ppm	0.0001920	5.317
Co2286		0.09726	ppm	0.001144	1.176
Cr2677		0.3271	ppm	0.002303	0.7040
Cu327.39		0.3523	ppm	0.001807	0.5129
Fe2395		140.9	ppm	0.09126	0.06478
K7694		9.261	ppm	0.01905	0.2057
Mg2790		45.39	ppm	0.6927	1.526
Mn2576		2.293	ppm	0.005135	0.2239
Mo2020		0.0009860	ppm	0.00005500	5.591
Na5895		1.565	ppm	0.04941	3.157
Ni2316		0.3640	ppm	0.003636	0.9991
Pb2203		0.1424	ppm	0.001866	1.311
Sb2068		0.004628	ppm	0.001196	25.85
Se1960		0.002626	ppm	0.005296	201.7
Si2124		1.184	ppm	0.02102	1.776
Sn1899		0.007264	ppm	0.0002690	3.708
Sr4077		0.2282	ppm	0.0003930	0.1721
Ti3361		1.183	ppm	0.004677	0.3954
Tl1908		-0.01006	ppm	0.003930	39.07
V2924		0.2360	ppm	0.003713	1.573
Zn2062		0.6117	ppm	0.009513	1.555
Y371.030		9,497.3	Cts/S	45.571	0.47983
Y029A		272,570	Cts/S	3,917.5	1.4372
Y029R		2,559.0	Cts/S	4.0840	0.15960

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-1-b

Acquire Date: 2/1/2019 12:14:16PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0002530	ppm	0.0006040	239.2
Al3961		35.74	ppm	0.3691	1.033
As1890		0.05904	ppm	0.001322	2.239
Au2427		11.48	ppm	0.4719	4.111
B_2089		0.006389	ppm	0.0005010	7.849
Ba4934		0.6621	ppm	0.006063	0.9157
Be3130		0.001773	ppm	0.0004710	26.56
Ca3179		75.59	ppm	0.8406	1.112
Cd2144		0.003038	ppm	0.00002000	0.6646
Co2286		0.05276	ppm	0.0001900	0.3599
Cr2677		2.015	ppm	0.007484	0.3714
Cu327.39		0.4970	ppm	0.0001880	0.03787
Fe2395		192.9	ppm	0.4170	0.2162
K7694		2.161	ppm	0.02159	0.9992
Mg2790		138.8	ppm	1.560	1.124
Mn2576		2.350	ppm	0.002825	0.1202
Mo2020		0.007584	ppm	0.0006080	8.016
Na5895		1.820	ppm	0.04708	2.587
Ni2316		0.1506	ppm	0.0009770	0.6488
Pb2203		0.6478	ppm	0.001381	0.2132
Sb2068		0.01440	ppm	0.0009450	6.561
Se1960		0.004590	ppm	0.004949	107.8
Si2124		1.148	ppm	0.002304	0.2006
Sn1899		0.7872	ppm	0.0007910	0.1005
Sr4077		0.1612	ppm	0.001051	0.6520
Ti3361		1.019	ppm	0.001830	0.1796
Tl1908		-0.004443	ppm	0.005033	113.3
V2924		0.1511	ppm	0.0003170	0.2100
Zn2062		2.067	ppm	0.003701	0.1791
Y371.030		8,403.5	Cts/S	11.072	0.13176
Y029A		245,580	Cts/S	1,333.8	0.54313
Y029R		2,316.4	Cts/S	9.6709	0.41751

720-90960-a-5-b

Acquire Date: 2/1/2019 12:18:56PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001361	ppm	0.0005280	38.80
Al3961		65.70	ppm	0.1844	0.2808
As1890		0.07654	ppm	0.0007980	1.043
Au2427		9.136	ppm	0.2142	2.345
B_2089		-0.0006070	ppm	0.0005840	96.29
Ba4934		0.3425	ppm	0.0003020	0.08821
Be3130		0.001824	ppm	0.00007700	4.239

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-5-b

Acquire Date: 2/1/2019 12:18:56PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		15.87	ppm	0.06408	0.4039
Cd2144		0.001030	ppm	0.00009500	9.260
Co2286		0.02639	ppm	0.0002610	0.9888
Cr2677		0.1988	ppm	0.0005020	0.2523
Cu327.39		0.3274	ppm	0.0009990	0.3051
Fe2395		165.5	ppm	0.9017	0.5447
K7694		1.969	ppm	0.04934	2.506
Mg2790		12.31	ppm	0.004934	0.04009
Mn2576		0.8273	ppm	0.003236	0.3912
Mo2020		0.0005640	ppm	0.000002000	0.3281
Na5895		0.7874	ppm	0.1230	15.61
Ni2316		0.1055	ppm	0.0003460	0.3284
Pb2203		0.05734	ppm	0.0007300	1.273
Sb2068		0.01224	ppm	0.0005280	4.315
Se1960		0.0005470	ppm	0.008494	1,554
Si2124		2.444	ppm	0.06274	2.567
Sn1899		-0.0006720	ppm	0.0006440	95.79
Sr4077		0.06649	ppm	0.0001950	0.2933
Ti3361		1.033	ppm	0.008051	0.7796
Tl1908		-0.01097	ppm	0.003354	30.56
V2924		0.2791	ppm	0.0004890	0.1751
Zn2062		0.1592	ppm	0.001665	1.046
Y371.030		9,612.5	Cts/S	52.562	0.54680
Y029A		272,150	Cts/S	2,641.8	0.97069
Y029R		2,542.8	Cts/S	37.897	1.4903

ICV/CCV

Acquire Date: 2/1/2019 12:23:47PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280	**W**	**0.2339**	**ppm**	**0.0002540**	**0.1085**	**.2500**	**Rel(%)**	**Warn Low**	**-5.000**
Al3961	**F**	**13.19**	**ppm**	**0.08156**	**0.6183**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
As1890		0.4814	ppm	0.002502	0.5197	.5000	Rel(%)	Pass	
Au2427		68.60	ppm	1.668	2.432				
B_2089	**W**	**0.4551**	**ppm**	**0.001428**	**0.3137**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ba4934	**W**	**0.4556**	**ppm**	**0.002891**	**0.6345**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Be3130	**W**	**0.4591**	**ppm**	**0.002203**	**0.4798**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ca3179	**W**	**13.74**	**ppm**	**0.03722**	**0.2709**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Cd2144		0.4804	ppm	0.0005590	0.1164	.5000	Rel(%)	Pass	
Co2286		0.4818	ppm	0.0009690	0.2011	.5000	Rel(%)	Pass	
Cr2677	**W**	**0.4716**	**ppm**	**0.004841**	**1.027**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Cu327.39		0.4776	ppm	0.002880	0.6029	.5000	Rel(%)	Pass	
Fe2395	**W**	**13.67**	**ppm**	**0.05271**	**0.3855**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
K7694	**W**	**13.75**	**ppm**	**0.06261**	**0.4554**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mg2790	**W**	**13.80**	**ppm**	**0.5498**	**3.984**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/1/2019 12:23:47PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Mn2576	**W**	**0.4652**	**ppm**	**0.001738**	**0.3736**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Mo2020		0.4801	ppm	0.0005300	0.1104	.5000	Rel(%)	Pass	
Na5895	**W**	**14.09**	**ppm**	**0.1820**	**1.292**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Ni2316	**W**	**0.4703**	**ppm**	**0.0008090**	**0.1721**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Pb2203		0.4819	ppm	0.0009670	0.2007	.5000	Rel(%)	Pass	
Sb2068	**W**	**0.4664**	**ppm**	**0.001757**	**0.3768**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Se1960	**W**	**0.4710**	**ppm**	**0.0004730**	**0.1005**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Si2124		0.4730	ppm	0.002645	0.5593				
Sn1899		0.4775	ppm	0.001872	0.3919	.5000	Rel(%)	Pass	
Sr4077	**W**	**0.4518**	**ppm**	**0.001716**	**0.3798**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ti3361	**F**	**0.4322**	**ppm**	**0.002540**	**0.5876**	**.5000**	**Rel(%)**	**Fail Low**	**-10.00**
Tl1908	**W**	**0.5328**	**ppm**	**0.02391**	**4.487**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.4763	ppm	0.002311	0.4852	.5000	Rel(%)	Pass	
Zn2062		0.4804	ppm	0.0006400	0.1332	.5000	Rel(%)	Pass	
Y371.030		9,454.4	Cts/S	11.260	0.11910				
Y029A		267,050	Cts/S	1,636.5	0.61279				
Y029R		2,464.3	Cts/S	25.245	1.0245				

ICB/CCB

Acquire Date: 2/1/2019 12:28:34PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0004750	ppm	0.001102	232.3	.0000	Abs	Pass	
Al3961		-0.05640	ppm	0.05089	90.23	.0000	Abs	Pass	
As1890		-0.001940	ppm	0.001193	61.47	.0000	Abs	Pass	
Au2427		1.328	ppm	0.08989	6.768				
B_2089		0.0003070	ppm	0.0009010	293.2	.0000	Abs	Pass	
Ba4934		-0.001203	ppm	0.0003970	32.99	.0000	Abs	Pass	
Be3130		0.0002190	ppm	0.0003390	154.8	.0000	Abs	Pass	
Ca3179		-0.01949	ppm	0.005101	26.17	.0000	Abs	Pass	
Cd2144		0.00005100	ppm	0.000009000	17.82	.0000	Abs	Pass	
Co2286		0.0002610	ppm	0.0002740	105.2	.0000	Abs	Pass	
Cr2677		0.0004760	ppm	0.00005400	11.32	.0000	Abs	Pass	
Cu327.39		0.001204	ppm	0.0008300	68.97	.0000	Abs	Pass	
Fe2395		0.09789	ppm	0.001680	1.716	.0000	Abs	Pass	
K7694		0.05872	ppm	0.1341	228.4	.0000	Abs	Pass	
Mg2790		-0.1421	ppm	0.04620	32.51	.0000	Abs	Pass	
Mn2576		0.0002410	ppm	0.0001470	60.84	.0000	Abs	Pass	
Mo2020		0.001360	ppm	0.001103	81.11	.0000	Abs	Pass	
Na5895		0.1022	ppm	0.02872	28.11	.0000	Abs	Pass	
Ni2316		-0.0001300	ppm	0.0004900	377.3	.0000	Abs	Pass	
Pb2203		0.002520	ppm	0.0008440	33.50	.0000	Abs	Pass	
Sb2068		0.001880	ppm	0.001675	89.10	.0000	Abs	Pass	
Se1960		0.001656	ppm	0.004913	296.7	.0000	Abs	Pass	
Si2124		-0.008615	ppm	0.001425	16.54				
Sn1899		-0.0001070	ppm	0.00008700	81.10	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/1/2019 12:28:34PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA 6010 & 200.7 start.01.11.16 Method Revision: 923

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Sr4077		0.0001710	ppm	0.0004770	279.0	.0000	Abs	Pass	
Ti3361		-0.002286	ppm	0.002169	94.88	.0000	Abs	Pass	
Tl1908		-0.001988	ppm	0.006598	331.8	.0000	Abs	Pass	
V2924		0.0003450	ppm	0.0005810	168.7	.0000	Abs	Pass	
Zn2062		-0.00007700	ppm	0.0001070	139.0	.0000	Abs	Pass	
Y371.030		10,315	Cts/S	9.2175	0.089359				
Y029A		298,410	Cts/S	2,665.6	0.89325				
Y029R		2,716.3	Cts/S	15.302	0.56335				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Author:

Published: 1/31/2019 3:36:46PM

Notes:

Blank

Acquire Date: 1/31/2019 8:46:44AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		14.34	Cts/S	0.2887	2.013
Al3961		-3.700	Cts/S	0.9899	26.76
As1890		1.159	Cts/S	0.8852	76.38
Au2427		-0.0001160	Cts/S	0.00001400	12.34
B_2089		0.0003000	Cts/S	0.0002930	97.69
Ba4934		7.350	Cts/S	3.394	46.18
Be3130		0.1594	Cts/S	0.4729	296.7
Ca3179		0.01079	Cts/S	0.001175	10.89
Cd2144		0.0005750	Cts/S	0.0001250	21.72
Co2286		0.001040	Cts/S	0.0001110	10.72
Cr2677		-8.132	Cts/S	2.742	33.71
Cu327.39		-8.525	Cts/S	30.00	351.9
Fe2395		-0.0006840	Cts/S	0.001287	188.2
K7694		0.06089	Cts/S	0.002541	4.173
Mg2790		-0.7425	Cts/S	0.3147	42.38
Mn2576		9.002	Cts/S	5.762	64.01
Mo2020		0.3447	Cts/S	0.1861	53.99
Na5895		0.07761	Cts/S	0.004361	5.620
Ni2316		0.0006340	Cts/S	0.0001740	27.41
Pb2203		-0.0005200	Cts/S	0.00006000	11.53
Sb2068		0.2669	Cts/S	0.4406	165.1
Se1960		-0.0007050	Cts/S	0.0001880	26.62
Si2124		0.007869	Cts/S	0.001081	13.74
Sn1899		0.0001590	Cts/S	0.0001360	85.24
Sr4077		-6.740	Cts/S	2.390	35.46
Ti3361		0.00005000	Cts/S	0.0000	0.7963
Tl1908		0.00008600	Cts/S	0.00008000	93.03
V2924		1.926	Cts/S	9.151	475.3
Zn2062		0.003958	Cts/S	0.0004060	10.25
Y371.030		8,478.8	Cts/S	9.3722	0.11054
Y029A		160,010	Cts/S	211.73	0.13232
Y029R		881.41	Cts/S	3.9775	0.45126

CAL STD.

Acquire Date: 1/31/2019 8:51:37AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5,648	Cts/S	26.35	0.4665
Al3961		1,071	Cts/S	2.279	0.2129
As1890		553.7	Cts/S	0.4089	0.07385

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

CAL STD.

Acquire Date: 1/31/2019 8:51:37AM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Au2427		-0.00004100	Cts/S	0.00005900	141.4
B_2089		0.2159	Cts/S	0.0005350	0.2476
Ba4934		2,617	Cts/S	12.00	0.4585
Be3130		3,015	Cts/S	2.422	0.08034
Ca3179		2.361	Cts/S	0.02246	0.9512
Cd2144		2.627	Cts/S	0.001374	0.05230
Co2286		0.7989	Cts/S	0.001510	0.1891
Cr2677		15,250	Cts/S	51.65	0.3387
Cu327.39		12,750	Cts/S	68.68	0.5386
Fe2395		0.6789	Cts/S	0.007098	1.046
K7694		1.473	Cts/S	0.003971	0.2696
Mg2790		119.8	Cts/S	0.5680	0.4740
Mn2576		56,060	Cts/S	164.7	0.2938
Mo2020		2,720	Cts/S	4.714	0.1733
Na5895		5.662	Cts/S	0.05847	1.033
Ni2316		0.5263	Cts/S	0.0008940	0.1699
Pb2203		0.1446	Cts/S	0.0003240	0.2241
Sb2068		421.5	Cts/S	0.4275	0.1014
Se1960		0.03264	Cts/S	0.00004600	0.1414
Si2124		5.609	Cts/S	0.05544	0.9884
Sn1899		0.1547	Cts/S	0.00008200	0.05285
Sr4077		6,125	Cts/S	12.12	0.1978
Ti3361		0.001984	Cts/S	0.000004000	0.1910
Tl1908		0.02427	Cts/S	0.0001480	0.6117
V2924		23,540	Cts/S	75.48	0.3207
Zn2062		1.086	Cts/S	0.0009600	0.08839
Y371.030		8,466.8	Cts/S	14.923	0.17626
Y029A		157,310	Cts/S	985.34	0.62638
Y029R		899.71	Cts/S	10.032	1.1150

STD 1

Acquire Date: 1/31/2019 8:56:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.5007	ppm	0.003071	0.6133	.5000	Rel(%)	Pass	
Al3961		19.71	ppm	0.1226	0.6219	20.00	Rel(%)	Pass	
As1890		0.9915	ppm	0.001297	0.1308	1.000	Rel(%)	Pass	
Au2427	**F**	**1.321**	**ppm**	**0.7277**	**55.10**	**1.000**	**Rel(%)**	**Fail High**	**5.000**
B_2089		0.9971	ppm	0.004193	0.4205	1.000	Rel(%)	Pass	
Ba4934		0.9973	ppm	0.008586	0.8610	1.000	Rel(%)	Pass	
Be3130		0.9809	ppm	0.003221	0.3284	1.000	Rel(%)	Pass	
Ca3179		19.97	ppm	0.1036	0.5188	20.00	Rel(%)	Pass	
Cd2144		0.9963	ppm	0.004547	0.4564	1.000	Rel(%)	Pass	
Co2286		0.9958	ppm	0.005220	0.5242	1.000	Rel(%)	Pass	
Cr2677		0.9902	ppm	0.004447	0.4491	1.000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

STD 1

Acquire Date: 1/31/2019 8:56:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Cu327.39		0.9927	ppm	0.004543	0.4577	1.000	Rel(%)	Pass	
Fe2395		20.09	ppm	0.1135	0.5649	20.00	Rel(%)	Pass	
K7694		20.05	ppm	0.03245	0.1618	20.00	Rel(%)	Pass	
Mg2790		19.64	ppm	0.1868	0.9515	20.00	Rel(%)	Pass	
Mn2576		0.9986	ppm	0.004555	0.4561	1.000	Rel(%)	Pass	
Mo2020		0.9917	ppm	0.0003810	0.03840	1.000	Rel(%)	Pass	
Na5895		20.07	ppm	0.07800	0.3887	20.00	Rel(%)	Pass	
Ni2316		1.004	ppm	0.004484	0.4467	1.000	Rel(%)	Pass	
Pb2203		1.001	ppm	0.007720	0.7709	1.000	Rel(%)	Pass	
Sb2068		0.9894	ppm	0.004126	0.4170	1.000	Rel(%)	Pass	
Se1960		0.9987	ppm	0.008065	0.8076	1.000	Rel(%)	Pass	
Si2124		9.920	ppm	0.05659	0.5704	10.00	Rel(%)	Pass	
Sn1899		1.009	ppm	0.005813	0.5761	1.000	Rel(%)	Pass	
Sr4077		0.9850	ppm	0.004102	0.4164	1.000	Rel(%)	Pass	
Ti3361		0.9898	ppm	0.01056	1.067	1.000	Rel(%)	Pass	
Tl1908		1.016	ppm	0.01623	1.598	1.000	Rel(%)	Pass	
V2924		0.9962	ppm	0.002637	0.2647	1.000	Rel(%)	Pass	
Zn2062		1.001	ppm	0.005237	0.5230	1.000	Rel(%)	Pass	
Y371.030		8,369.9	Cts/S	45.308	0.54132				
Y029A		156,010	Cts/S	849.30	0.54439				
Y029R		893.35	Cts/S	6.1858	0.69243				

ICV/CCV

Acquire Date: 1/31/2019 9:01:03AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2501	ppm	0.0006900	0.2758	.2500	Rel(%)	Pass	
Al3961		15.54	ppm	0.04139	0.2663	15.00	Rel(%)	Pass	
As1890		0.5150	ppm	0.001976	0.3838	.5000	Rel(%)	Pass	
Au2427		113.8	ppm	0.8493	0.7463				
B_2089		0.5193	ppm	0.0006490	0.1251	.5000	Rel(%)	Pass	
Ba4934		0.5050	ppm	0.001716	0.3398	.5000	Rel(%)	Pass	
Be3130	**W**	**0.5287**	**ppm**	**0.001863**	**0.3523**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ca3179		15.64	ppm	0.2722	1.740	15.00	Rel(%)	Pass	
Cd2144		0.5176	ppm	0.0003470	0.06695	.5000	Rel(%)	Pass	
Co2286		0.5200	ppm	0.0007630	0.1467	.5000	Rel(%)	Pass	
Cr2677		0.5198	ppm	0.0004470	0.08595	.5000	Rel(%)	Pass	
Cu327.39		0.5120	ppm	0.0009700	0.1895	.5000	Rel(%)	Pass	
Fe2395	**W**	**16.08**	**ppm**	**0.2283**	**1.420**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
K7694	**W**	**15.78**	**ppm**	**0.1359**	**0.8609**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mg2790		15.45	ppm	0.2125	1.375	15.00	Rel(%)	Pass	
Mn2576		0.5004	ppm	0.001539	0.3075	.5000	Rel(%)	Pass	
Mo2020		0.5141	ppm	0.00006300	0.01231	.5000	Rel(%)	Pass	
Na5895		15.02	ppm	0.2277	1.517	15.00	Rel(%)	Pass	
Ni2316		0.5145	ppm	0.0009360	0.1819	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 9:01:03AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Pb2203		0.5176	ppm	0.0006910	0.1335	.5000	Rel(%)	Pass	
Sb2068		0.5194	ppm	0.0007250	0.1395	.5000	Rel(%)	Pass	
Se1960		0.5132	ppm	0.001380	0.2689	.5000	Rel(%)	Pass	
Si2124		0.5611	ppm	0.01547	2.757				
Sn1899		0.5047	ppm	0.002114	0.4187	.5000	Rel(%)	Pass	
Sr4077		0.5149	ppm	0.005735	1.114	.5000	Rel(%)	Pass	
Ti3361		0.5207	ppm	0.001224	0.2351	.5000	Rel(%)	Pass	
Tl1908	**W**	**0.5404**	**ppm**	**0.001373**	**0.2541**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.5121	ppm	0.0007480	0.1462	.5000	Rel(%)	Pass	
Zn2062		0.5148	ppm	0.0003720	0.07218	.5000	Rel(%)	Pass	
Y371.030		8,551.1	Cts/S	12.959	0.15155				
Y029A		154,350	Cts/S	36.340	0.023544				
Y029R		882.76	Cts/S	17.965	2.0351				

ICB/CCB

Acquire Date: 1/31/2019 9:05:47AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0001510	ppm	0.001264	838.3	.0000	Abs	Pass	
Al3961		0.03630	ppm	0.1159	319.2	.0000	Abs	Pass	
As1890		0.001002	ppm	0.0005640	56.26	.0000	Abs	Pass	
Au2427		1.129	ppm	0.07653	6.781				
B_2089		0.001357	ppm	0.0003410	25.14	.0000	Abs	Pass	
Ba4934		0.002510	ppm	0.003821	152.2	.0000	Abs	Pass	
Be3130		0.0003180	ppm	0.0003520	110.6	.0000	Abs	Pass	
Ca3179		0.01863	ppm	0.005925	31.81	.0000	Abs	Pass	
Cd2144		0.001448	ppm	0.00008400	5.820	.0000	Abs	Pass	
Co2286		0.001119	ppm	0.0001070	9.533	.0000	Abs	Pass	
Cr2677		0.002008	ppm	0.0001280	6.390	.0000	Abs	Pass	
Cu327.39		0.001538	ppm	0.00008700	5.675	.0000	Abs	Pass	
Fe2395		0.08531	ppm	0.01501	17.60	.0000	Abs	Pass	
K7694		-0.1820	ppm	0.1337	73.45	.0000	Abs	Pass	
Mg2790		0.07753	ppm	0.07153	92.26	.0000	Abs	Pass	
Mn2576		0.001582	ppm	0.00007700	4.898	.0000	Abs	Pass	
Mo2020		0.001756	ppm	0.00003700	2.105	.0000	Abs	Pass	
Na5895		-0.003507	ppm	0.02400	684.4	.0000	Abs	Pass	
Ni2316		0.0008040	ppm	0.00003600	4.512	.0000	Abs	Pass	
Pb2203		0.002261	ppm	0.00004400	1.930	.0000	Abs	Pass	
Sb2068		-0.00004200	ppm	0.001516	3,582	.0000	Abs	Pass	
Se1960		0.002240	ppm	0.002306	102.9	.0000	Abs	Pass	
Si2124		0.008387	ppm	0.001087	12.96				
Sn1899		0.001317	ppm	0.0009030	68.56	.0000	Abs	Pass	
Sr4077		0.001411	ppm	0.0002920	20.67	.0000	Abs	Pass	
Ti3361		0.0007340	ppm	0.005694	775.9	.0000	Abs	Pass	
Tl1908		0.009527	ppm	0.0003220	3.384	.0000	Abs	Pass	
V2924		0.001511	ppm	0.0006030	39.88	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 9:05:47AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Zn2062		-0.001360	ppm	0.00008300	6.113	.0000	Abs	Pass	
Y371.030		8,691.7	Cts/S	6.8968	0.079349				
Y029A		162,130	Cts/S	333.26	0.20555				
Y029R		904.88	Cts/S	16.829	1.8598				

CRI

Acquire Date: 1/31/2019 9:10:41AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.01200	ppm	0.0008320	6.931	.0100	Abs	Pass	
Al3961		0.5272	ppm	0.04147	7.866	.4000	Abs	Pass	
As1890		0.01085	ppm	0.001007	9.280	.0100	Abs	Pass	
Au2427		5.278	ppm	0.05149	0.9756				
B_2089	**F**	**0.1602**	**ppm**	**0.0006240**	**0.3894**	**.1000**	**Abs**	**Fail High**	**.1500**
Ba4934		0.01471	ppm	0.0005150	3.499	.0100	Abs	Pass	
Be3130		0.005085	ppm	0.00002200	0.4331	.0040	Abs	Pass	
Ca3179		0.4735	ppm	0.01351	2.852	.4000	Abs	Pass	
Cd2144		0.005499	ppm	0.0001110	2.027	.0040	Abs	Pass	
Co2286		0.005262	ppm	0.00002000	0.3725	.0040	Abs	Pass	
Cr2677		0.02446	ppm	0.0008070	3.301	.0200	Abs	Pass	
Cu327.39		0.04745	ppm	0.0003310	0.6979	.0400	Abs	Pass	
Fe2395		0.7428	ppm	0.0005020	0.06765	.6000	Abs	Pass	
K7694		1.957	ppm	0.01948	0.9954	2.000	Abs	Pass	
Mg2790		0.3247	ppm	0.06215	19.14	.4000	Abs	Pass	
Mn2576		0.04796	ppm	0.0005460	1.138	.0400	Abs	Pass	
Mo2020		0.02373	ppm	0.000004000	0.01607	.0200	Abs	Pass	
Na5895		1.265	ppm	0.003092	0.2444	.4000	Abs	Pass	
Ni2316		0.02255	ppm	0.0009250	4.103	.0200	Abs	Pass	
Pb2203		0.01265	ppm	0.0002940	2.326	.0100	Abs	Pass	
Sb2068		0.02098	ppm	0.003099	14.77	.0200	Abs	Pass	
Se1960		0.04424	ppm	0.002268	5.128	.0400	Abs	Pass	
Si2124		1.124	ppm	0.003222	0.2866				
Sn1899		0.02300	ppm	0.0001050	0.4552	.0200	Abs	Pass	
Sr4077		0.01224	ppm	0.0003550	2.903	.0100	Abs	Pass	
Ti3361		0.02166	ppm	0.0003250	1.499	.0200	Abs	Pass	
Tl1908		0.02235	ppm	0.003176	14.21	.0200	Abs	Pass	
V2924		0.02422	ppm	0.0005180	2.141	.0200	Abs	Pass	
Zn2062		0.04213	ppm	0.00001100	0.02644	.0400	Abs	Pass	
Y371.030		8,832.4	Cts/S	7.8964	0.089403				
Y029A		165,270	Cts/S	795.25	0.48119				
Y029R		940.71	Cts/S	0.65407	0.069530				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSA

Acquire Date: 1/31/2019 9:15:33AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001548	ppm	0.0003890	25.10	.0000	Abs	Pass	
Al3961		529.0	ppm	0.4390	0.08300	500.0	Abs	Pass	
As1890		-0.004156	ppm	0.0007690	18.51	.0000	Abs	Pass	
Au2427		32.07	ppm	0.2627	0.8191				
B_2089		-0.004058	ppm	0.0008230	20.29	.0000	Abs	Pass	
Ba4934		0.001253	ppm	0.0003280	26.20	.0000	Abs	Pass	
Be3130		0.0004510	ppm	0.0003080	68.35	.0000	Abs	Pass	
Ca3179		559.1	ppm	0.5225	0.09344	500.0	Abs	Pass	
Cd2144		0.0005750	ppm	0.0001330	23.13	.0000	Abs	Pass	
Co2286		0.001359	ppm	0.0004320	31.76	.0000	Abs	Pass	
Cr2677		0.001621	ppm	0.0004410	27.21	.0000	Abs	Pass	
Cu327.39		-0.008262	ppm	0.0002760	3.347	.0000	Abs	Pass	
Fe2395		541.7	ppm	1.520	0.2806	500.0	Abs	Pass	
K7694		0.6897	ppm	0.008463	1.227	.0000	Abs	Pass	
Mg2790		502.8	ppm	2.322	0.4618	500.0	Abs	Pass	
Mn2576		0.007138	ppm	0.0003220	4.511	.0000	Abs	Pass	
Mo2020		0.003879	ppm	0.0003540	9.131	.0000	Abs	Pass	
Na5895		0.4553	ppm	0.1551	34.08	.0000	Abs	Pass	
Ni2316		0.002083	ppm	0.001117	53.60	.0000	Abs	Pass	
Pb2203		0.003181	ppm	0.002111	66.37	.0000	Abs	Pass	
Sb2068		0.002068	ppm	0.005927	286.6	.0000	Abs	Pass	
Se1960		-0.01048	ppm	0.01116	106.4	.0000	Abs	Pass	
Si2124		0.02813	ppm	0.0001530	0.5445				
Sn1899		0.0003620	ppm	0.0004750	131.5	.0000	Abs	Pass	
Sr4077		-0.002624	ppm	0.00009600	3.655	.0000	Abs	Pass	
Ti3361		0.0006730	ppm	0.001442	214.2	.0000	Abs	Pass	
Tl1908		0.004931	ppm	0.0003620	7.336	.0000	Abs	Pass	
V2924		-0.002523	ppm	0.00006500	2.592	.0000	Abs	Pass	
Zn2062		0.002974	ppm	0.0005090	17.11	.0000	Abs	Pass	
Y371.030		6,911.4	Cts/S	38.865	0.56234				
Y029A		125,100	Cts/S	904.77	0.72323				
Y029R		813.11	Cts/S	2.5527	0.31395				

ICSAB

Acquire Date: 1/31/2019 9:20:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.1201	ppm	0.0002980	0.2485	.1250	Rel(%)	Pass	
Al3961		515.5	ppm	8.457	1.641	500.0	Rel(%)	Pass	
As1890		0.2348	ppm	0.004123	1.756	.2500	Rel(%)	Pass	
Au2427		31.96	ppm	0.1227	0.3838				
B_2089		0.2687	ppm	0.0005950	0.2213	.2500	Rel(%)	Pass	
Ba4934		0.2595	ppm	0.001828	0.7044	.2500	Rel(%)	Pass	
Be3130		0.2541	ppm	0.003229	1.271	.2500	Rel(%)	Pass	
Ca3179		554.4	ppm	2.288	0.4128	500.0	Rel(%)	Pass	
Cd2144		0.2663	ppm	0.000003000	0.001281	.2500	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSAB

Acquire Date: 1/31/2019 9:20:20AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Co2286		0.2639	ppm	0.0005240	0.1985	.2500	Rel(%)	Pass	
Cr2677		0.2287	ppm	0.0009270	0.4054	.2500	Rel(%)	Pass	
Cu327.39		0.2279	ppm	0.0004080	0.1790	.2500	Rel(%)	Pass	
Fe2395		533.5	ppm	1.320	0.2475	500.0	Rel(%)	Pass	
K7694		0.8646	ppm	0.03104	3.591				
Mg2790		491.7	ppm	6.321	1.286	500.0	Rel(%)	Pass	
Mn2576		0.2292	ppm	0.0009300	0.4058	.2500	Rel(%)	Pass	
Mo2020		0.2325	ppm	0.001473	0.6335	.2500	Rel(%)	Pass	
Na5895		0.4770	ppm	0.002245	0.4706				
Ni2316		0.2633	ppm	0.0002970	0.1127	.2500	Rel(%)	Pass	
Pb2203		0.2608	ppm	0.002106	0.8074	.2500	Rel(%)	Pass	
Sb2068		0.2339	ppm	0.001732	0.7406	.2500	Rel(%)	Pass	
Se1960		0.2712	ppm	0.004542	1.675	.2500	Rel(%)	Pass	
Si2124		0.3012	ppm	0.0006170	0.2049				
Sn1899		0.2619	ppm	0.0008490	0.3243	.2500	Rel(%)	Pass	
Sr4077		0.2549	ppm	0.004033	1.582	.2500	Rel(%)	Pass	
Ti3361	**F**	**0.3272**	**ppm**	**0.005031**	**1.538**	**.2500**	**Rel(%)**	**Fail High**	**20.00**
Tl1908		0.2383	ppm	0.005085	2.134	.2500	Rel(%)	Pass	
V2924		0.2300	ppm	0.001372	0.5967	.2500	Rel(%)	Pass	
Zn2062		0.2665	ppm	0.0002750	0.1031	.2500	Rel(%)	Pass	
Y371.030		6,942.8	Cts/S	36.511	0.52588				
Y029A		126,350	Cts/S	912.69	0.72233				
Y029R		803.11	Cts/S	7.2957	0.90843				

ICV/CCV

Acquire Date: 1/31/2019 9:25:01AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2591	ppm	0.002367	0.9134	.2500	Rel(%)	Pass	
Al3961		15.41	ppm	0.1458	0.9461	15.00	Rel(%)	Pass	
As1890		0.5085	ppm	0.003241	0.6373	.5000	Rel(%)	Pass	
Au2427		113.1	ppm	0.04956	0.04383				
B_2089		0.5016	ppm	0.0005970	0.1189	.5000	Rel(%)	Pass	
Ba4934		0.5094	ppm	0.00004200	0.008233	.5000	Rel(%)	Pass	
Be3130		0.5013	ppm	0.005311	1.059	.5000	Rel(%)	Pass	
Ca3179	**W**	**15.98**	**ppm**	**0.1270**	**0.7943**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Cd2144		0.5061	ppm	0.001174	0.2320	.5000	Rel(%)	Pass	
Co2286		0.5082	ppm	0.001054	0.2075	.5000	Rel(%)	Pass	
Cr2677		0.5085	ppm	0.001092	0.2146	.5000	Rel(%)	Pass	
Cu327.39		0.5085	ppm	0.002880	0.5664	.5000	Rel(%)	Pass	
Fe2395	**W**	**16.07**	**ppm**	**0.07162**	**0.4458**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
K7694		14.95	ppm	0.1259	0.8421	15.00	Rel(%)	Pass	
Mg2790	**W**	**15.88**	**ppm**	**0.2894**	**1.823**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mn2576		0.5130	ppm	0.003374	0.6578	.5000	Rel(%)	Pass	
Mo2020		0.5096	ppm	0.0001980	0.03890	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 9:25:01AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Na5895		14.87	ppm	0.07858	0.5286	15.00	Rel(%)	Pass	
Ni2316		0.5147	ppm	0.001784	0.3467	.5000	Rel(%)	Pass	
Pb2203		0.5140	ppm	0.0002740	0.05322	.5000	Rel(%)	Pass	
Sb2068		0.5090	ppm	0.0003860	0.07576	.5000	Rel(%)	Pass	
Se1960		0.5126	ppm	0.001699	0.3314	.5000	Rel(%)	Pass	
Si2124		0.5221	ppm	0.005122	0.9810				
Sn1899		0.5170	ppm	0.002324	0.4495	.5000	Rel(%)	Pass	
Sr4077		0.5003	ppm	0.001347	0.2693	.5000	Rel(%)	Pass	
Ti3361		0.5088	ppm	0.01571	3.088	.5000	Rel(%)	Pass	
Tl1908		0.5248	ppm	0.0006970	0.1328	.5000	Rel(%)	Pass	
V2924		0.5110	ppm	0.002463	0.4819	.5000	Rel(%)	Pass	
Zn2062		0.5094	ppm	0.001412	0.2771	.5000	Rel(%)	Pass	
Y371.030		8,450.7	Cts/S	32.506	0.38465				
Y029A		157,510	Cts/S	1,049.6	0.66639				
Y029R		889.11	Cts/S	3.0892	0.34745				

ICB/CCB

Acquire Date: 1/31/2019 9:29:45AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0006480	ppm	0.001423	219.7	.0000	Abs	Pass	
Al3961	**F**	**0.3686**	**ppm**	**0.1185**	**32.14**	**.0000**	**Abs**	**Fail High**	**.2000**
As1890		0.0002570	ppm	0.001279	497.1	.0000	Abs	Pass	
Au2427		1.667	ppm	0.2979	17.88				
B_2089		0.0009930	ppm	0.0005700	57.40	.0000	Abs	Pass	
Ba4934		0.002605	ppm	0.001816	69.69	.0000	Abs	Pass	
Be3130		0.001194	ppm	0.0004270	35.73	.0000	Abs	Pass	
Ca3179	**F**	**0.3620**	**ppm**	**0.1394**	**38.52**	**.0000**	**Abs**	**Fail High**	**.2000**
Cd2144		0.0008840	ppm	0.0002050	23.19	.0000	Abs	Pass	
Co2286		0.0005920	ppm	0.0006030	101.9	.0000	Abs	Pass	
Cr2677		0.0009320	ppm	0.0001200	12.93	.0000	Abs	Pass	
Cu327.39		0.0003880	ppm	0.002401	619.3	.0000	Abs	Pass	
Fe2395	**F**	**0.4267**	**ppm**	**0.05934**	**13.91**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		-0.1465	ppm	0.03934	26.85	.0000	Abs	Pass	
Mg2790	**F**	**0.4639**	**ppm**	**0.04455**	**9.604**	**.0000**	**Abs**	**Fail High**	**.2000**
Mn2576		0.001176	ppm	0.0004690	39.90	.0000	Abs	Pass	
Mo2020		0.0009830	ppm	0.0006570	66.82	.0000	Abs	Pass	
Na5895		-0.01434	ppm	0.06310	440.1	.0000	Abs	Pass	
Ni2316		0.0002970	ppm	0.001134	382.2	.0000	Abs	Pass	
Pb2203		0.001689	ppm	0.0003770	22.33	.0000	Abs	Pass	
Sb2068		-0.0009740	ppm	0.0008760	89.97	.0000	Abs	Pass	
Se1960		0.001324	ppm	0.0002670	20.20	.0000	Abs	Pass	
Si2124		0.001901	ppm	0.001370	72.07				
Sn1899		0.0003910	ppm	0.001318	337.3	.0000	Abs	Pass	
Sr4077		0.0008490	ppm	0.0004160	49.04	.0000	Abs	Pass	
Ti3361		0.003829	ppm	0.001091	28.51	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 9:29:45AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Tl1908		0.006718	ppm	0.001551	23.09	.0000	Abs	Pass	
V2924		0.001514	ppm	0.00002500	1.640	.0000	Abs	Pass	
Zn2062		-0.002534	ppm	0.0005720	22.59	.0000	Abs	Pass	
Y371.030		8,558.2	Cts/S	9.0613	0.10588				
Y029A		160,700	Cts/S	557.94	0.34718				
Y029R		886.05	Cts/S	8.8742	1.0015				

ICV/CCV

Acquire Date: 1/31/2019 2:08:00PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2434	ppm	0.002915	1.197	.2500	Rel(%)	Pass	
Al3961	**W**	**13.91**	**ppm**	**0.1181**	**0.8494**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
As1890		0.4878	ppm	0.001287	0.2639	.5000	Rel(%)	Pass	
Au2427		112.0	ppm	1.900	1.696				
B_2089		0.4822	ppm	0.0003600	0.07461	.5000	Rel(%)	Pass	
Ba4934	**W**	**0.4592**	**ppm**	**0.0006370**	**0.1387**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Be3130	**W**	**0.4528**	**ppm**	**0.0007680**	**0.1695**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ca3179		15.64	ppm	0.2254	1.441	15.00	Rel(%)	Pass	
Cd2144		0.4903	ppm	0.00004000	0.008231	.5000	Rel(%)	Pass	
Co2286		0.4906	ppm	0.0003960	0.08065	.5000	Rel(%)	Pass	
Cr2677		0.4859	ppm	0.001039	0.2139	.5000	Rel(%)	Pass	
Cu327.39		0.4795	ppm	0.0004160	0.08669	.5000	Rel(%)	Pass	
Fe2395	**W**	**15.87**	**ppm**	**0.2064**	**1.301**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
K7694		14.51	ppm	0.04322	0.2979	15.00	Rel(%)	Pass	
Mg2790		14.44	ppm	0.4205	2.912	15.00	Rel(%)	Pass	
Mn2576		0.4987	ppm	0.002363	0.4739	.5000	Rel(%)	Pass	
Mo2020		0.4883	ppm	0.001659	0.3396	.5000	Rel(%)	Pass	
Na5895	**W**	**14.11**	**ppm**	**0.07476**	**0.5299**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Ni2316		0.5068	ppm	0.001138	0.2246	.5000	Rel(%)	Pass	
Pb2203		0.5134	ppm	0.001633	0.3180	.5000	Rel(%)	Pass	
Sb2068		0.4885	ppm	0.001742	0.3565	.5000	Rel(%)	Pass	
Se1960		0.4909	ppm	0.007962	1.622	.5000	Rel(%)	Pass	
Si2124		0.5330	ppm	0.002647	0.4967				
Sn1899		0.5163	ppm	0.0009290	0.1799	.5000	Rel(%)	Pass	
Sr4077	**W**	**0.4513**	**ppm**	**0.001435**	**0.3179**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ti3361		0.4848	ppm	0.003446	0.7109	.5000	Rel(%)	Pass	
Tl1908		0.5060	ppm	0.001480	0.2925	.5000	Rel(%)	Pass	
V2924		0.4895	ppm	0.001154	0.2358	.5000	Rel(%)	Pass	
Zn2062		0.5043	ppm	0.0006230	0.1236	.5000	Rel(%)	Pass	
Y371.030		8,299.8	Cts/S	33.472	0.40328				
Y029A		152,390	Cts/S	636.62	0.41775				
Y029R		834.63	Cts/S	3.2038	0.38386				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 2:12:44PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0007620	ppm	0.0004130	54.19	.0000	Abs	Pass	
Al3961		0.1485	ppm	0.07833	52.76	.0000	Abs	Pass	
As1890		-0.001665	ppm	0.0004690	28.18	.0000	Abs	Pass	
Au2427		1.376	ppm	0.8418	61.16				
B_2089		0.0004910	ppm	0.00003100	6.358	.0000	Abs	Pass	
Ba4934		0.004761	ppm	0.002533	53.21	.0000	Abs	Pass	
Be3130		0.0008110	ppm	0.0002130	26.22	.0000	Abs	Pass	
Ca3179		0.1975	ppm	0.04473	22.65	.0000	Abs	Pass	
Cd2144		0.0007860	ppm	0.000002000	0.2008	.0000	Abs	Pass	
Co2286		0.0007180	ppm	0.0001060	14.83	.0000	Abs	Pass	
Cr2677		0.001021	ppm	0.0002970	29.07	.0000	Abs	Pass	
Cu327.39		0.002579	ppm	0.001205	46.74	.0000	Abs	Pass	
Fe2395	**F**	**0.3912**	**ppm**	**0.05331**	**13.63**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		-0.1511	ppm	0.008326	5.510	.0000	Abs	Pass	
Mg2790		-0.05764	ppm	0.2298	398.7	.0000	Abs	Pass	
Mn2576		0.005405	ppm	0.002317	42.87	.0000	Abs	Pass	
Mo2020		0.0007870	ppm	0.0007290	92.64	.0000	Abs	Pass	
Na5895		-0.04179	ppm	0.04566	109.3	.0000	Abs	Pass	
Ni2316		0.0007980	ppm	0.0003240	40.63	.0000	Abs	Pass	
Pb2203	**F**	**0.007816**	**ppm**	**0.001978**	**25.30**	**.0000**	**Abs**	**Fail High**	**.0050**
Sb2068		0.0002850	ppm	0.001191	418.1	.0000	Abs	Pass	
Se1960		0.001054	ppm	0.004567	433.4	.0000	Abs	Pass	
Si2124		0.003677	ppm	0.0002810	7.631				
Sn1899		0.0002760	ppm	0.0002980	108.2	.0000	Abs	Pass	
Sr4077		0.001845	ppm	0.0004200	22.78	.0000	Abs	Pass	
Ti3361		0.003381	ppm	0.0007630	22.56	.0000	Abs	Pass	
Tl1908		0.006741	ppm	0.001616	23.97	.0000	Abs	Pass	
V2924		0.001207	ppm	0.0005520	45.78	.0000	Abs	Pass	
Zn2062		0.001264	ppm	0.0005930	46.88	.0000	Abs	Pass	
Y371.030		8,690.5	Cts/S	22.598	0.26003				
Y029A		159,640	Cts/S	101.19	0.063388				
Y029R		840.60	Cts/S	2.6163	0.31124				

mb 720-259167/1-a

Acquire Date: 1/31/2019 2:23:25PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0008520	ppm	0.002129	249.8
Al3961		0.05259	ppm	0.01646	31.29
As1890		-0.001123	ppm	0.002788	248.2
Au2427		0.4995	ppm	0.8023	160.6
B_2089		0.0006660	ppm	0.0001980	29.74
Ba4934		0.003305	ppm	0.003157	95.52
Be3130		0.00001000	ppm	0.0004740	4,584
Ca3179		0.08244	ppm	0.01370	16.62
Cd2144		0.0002370	ppm	0.0001410	59.63

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

mb 720-259167/1-a

Acquire Date: 1/31/2019 2:23:25PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		0.0003710	ppm	0.00001400	3.760
Cr2677		0.0003070	ppm	0.0004250	138.3
Cu327.39		0.0009660	ppm	0.0001110	11.45
Fe2395		0.1911	ppm	0.08060	42.17
K7694		-0.2412	ppm	0.04283	17.76
Mg2790		0.09907	ppm	0.09146	92.31
Mn2576		0.002474	ppm	0.001726	69.78
Mo2020		-0.00009500	ppm	0.00009500	100.3
Na5895		-0.07378	ppm	0.06379	86.46
Ni2316		0.00003700	ppm	0.0001780	477.5
Pb2203		0.004932	ppm	0.0005250	10.64
Sb2068		-0.0005520	ppm	0.0009980	180.9
Se1960		-0.001646	ppm	0.0004200	25.52
Si2124		0.005462	ppm	0.001055	19.32
Sn1899		0.00001900	ppm	0.001304	6,778
Sr4077		0.0004110	ppm	0.0004040	98.37
Ti3361		0.004016	ppm	0.005396	134.4
Tl1908		-0.002272	ppm	0.0001550	6.818
V2924		0.0006820	ppm	0.00002100	3.113
Zn2062		-0.001010	ppm	0.0005220	51.69
Y371.030		8,158.0	Cts/S	14.747	0.18077
Y029A		151,060	Cts/S	2,081.7	1.3780
Y029R		800.26	Cts/S	0.088388	0.011045

lcs 720-259167/2-a

Acquire Date: 1/31/2019 2:28:18PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.4889	ppm	0.0001920	0.03923
Al3961		9.199	ppm	0.03284	0.3570
As1890		0.9649	ppm	0.002853	0.2957
Au2427		0.5028	ppm	0.5292	105.2
B_2089		0.9608	ppm	0.0002920	0.03039
Ba4934		0.9113	ppm	0.006544	0.7182
Be3130		0.9104	ppm	0.006375	0.7002
Ca3179		10.60	ppm	0.04159	0.3922
Cd2144		1.013	ppm	0.002575	0.2542
Co2286		1.025	ppm	0.002287	0.2231
Cr2677		0.9925	ppm	0.004851	0.4888
Cu327.39		0.9813	ppm	0.0003890	0.03967
Fe2395		10.73	ppm	0.01229	0.1145
K7694		9.816	ppm	0.2532	2.580
Mg2790		9.408	ppm	0.1439	1.530
Mn2576		1.011	ppm	0.0003070	0.03033

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

lcs 720-259167/2-a

Acquire Date: 1/31/2019 2:28:18PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.9867	ppm	0.001364	0.1382
Na5895		9.585	ppm	0.08578	0.8949
Ni2316		1.046	ppm	0.003905	0.3733
Pb2203		1.048	ppm	0.004188	0.3997
Sb2068		0.9680	ppm	0.0001590	0.01638
Se1960		0.9879	ppm	0.01020	1.033
Si2124		0.9973	ppm	0.005367	0.5381
Sn1899		1.065	ppm	0.002792	0.2623
Sr4077		0.9083	ppm	0.007075	0.7789
Ti3361		0.9711	ppm	0.007685	0.7914
Tl1908		1.038	ppm	0.008010	0.7720
V2924		0.9888	ppm	0.002924	0.2957
Zn2062		1.024	ppm	0.002308	0.2254
Y371.030		8,053.0	Cts/S	27.100	0.33652
Y029A		150,290	Cts/S	341.55	0.22725
Y029R		815.51	Cts/S	1.7113	0.20985

720-90960-a-12-d ms

Acquire Date: 1/31/2019 2:33:00PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1247	ppm	0.001247	1.000
Al3961		120.7	ppm	1.594	1.321
As1890		0.2912	ppm	0.004258	1.462
Au2427		12.53	ppm	0.07252	0.5786
B_2089		0.1657	ppm	0.00005300	0.03214
Ba4934		1.050	ppm	0.01378	1.312
Be3130		0.2302	ppm	0.003752	1.630
Ca3179		37.46	ppm	0.1739	0.4642
Cd2144		0.2417	ppm	0.00001300	0.005395
Co2286		0.3450	ppm	0.001134	0.3286
Cr2677		0.6236	ppm	0.0007780	0.1247
Cu327.39		0.4342	ppm	0.001742	0.4012
Fe2395		191.4	ppm	0.2414	0.1261
K7694		7.421	ppm	0.09221	1.243
Mg2790		22.84	ppm	0.1407	0.6159
Mn2576		3.034	ppm	0.02226	0.7336
Mo2020		0.2010	ppm	0.00005500	0.02747
Na5895		3.739	ppm	0.05622	1.504
Ni2316		0.4803	ppm	0.0002720	0.05662
Pb2203		0.5631	ppm	0.003238	0.5750
Sb2068		0.07422	ppm	0.001365	1.840
Se1960		0.2225	ppm	0.002953	1.327
Si2124		4.354	ppm	0.03583	0.8230
Sn1899		0.2422	ppm	0.00007100	0.02933

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-12-d ms

Acquire Date: 1/31/2019 2:33:00PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Sr4077		0.3641	ppm	0.002566	0.7048
Ti3361		1.989	ppm	0.03127	1.572
Tl1908		0.2408	ppm	0.005385	2.236
V2924		0.6479	ppm	0.002827	0.4364
Zn2062		0.7776	ppm	0.0002540	0.03269
Y371.030		8,401.4	Cts/S	36.404	0.43330
Y029A		155,670	Cts/S	896.66	0.57602
Y029R		859.34	Cts/S	3.4825	0.40525

720-90960-a-12-e msd

Acquire Date: 1/31/2019 2:37:42PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1237	ppm	0.0009580	0.7750
Al3961		119.6	ppm	0.3930	0.3286
As1890		0.3123	ppm	0.001020	0.3266
Au2427		11.83	ppm	0.2426	2.051
B_2089		0.1704	ppm	0.0003400	0.1997
Ba4934		1.844	ppm	0.006707	0.3636
Be3130		0.2390	ppm	0.001256	0.5257
Ca3179		45.36	ppm	0.1407	0.3101
Cd2144		0.2467	ppm	0.0003780	0.1533
Co2286		0.3390	ppm	0.0002270	0.06706
Cr2677		0.6602	ppm	0.003901	0.5909
Cu327.39		0.4571	ppm	0.0008480	0.1856
Fe2395		199.7	ppm	1.270	0.6359
K7694		7.718	ppm	0.06130	0.7943
Mg2790		23.41	ppm	0.008794	0.03756
Mn2576		3.133	ppm	0.004616	0.1473
Mo2020		0.2065	ppm	0.0007920	0.3833
Na5895		3.720	ppm	0.01602	0.4306
Ni2316		0.4827	ppm	0.001131	0.2342
Pb2203		0.8309	ppm	0.001767	0.2127
Sb2068		0.07885	ppm	0.001822	2.311
Se1960		0.2303	ppm	0.005871	2.549
Si2124		4.894	ppm	0.001899	0.03881
Sn1899		0.2844	ppm	0.001694	0.5956
Sr4077		0.3859	ppm	0.0002420	0.06279
Ti3361		1.910	ppm	0.004592	0.2404
Tl1908		0.2460	ppm	0.003388	1.377
V2924		0.6433	ppm	0.001094	0.1700
Zn2062		0.8892	ppm	0.002973	0.3344
Y371.030		8,527.3	Cts/S	43.889	0.51469
Y029A		155,020	Cts/S	416.13	0.26844

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-12-e msd

Acquire Date: 1/31/2019 2:37:42PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Y029R		858.55	Cts/S	4.1366	0.48181

720-90960-a-12-f pds

Acquire Date: 1/31/2019 2:42:25PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.4610	ppm	0.002267	0.4917
Al3961		111.9	ppm	0.3495	0.3125
As1890		1.030	ppm	0.008931	0.8669
Au2427		12.66	ppm	0.2662	2.102
B_2089		0.9364	ppm	0.01918	2.048
Ba4934		1.880	ppm	0.004174	0.2220
Be3130		0.8939	ppm	0.002257	0.2525
Ca3179		52.67	ppm	0.3589	0.6815
Cd2144		0.9534	ppm	0.02125	2.229
Co2286		1.047	ppm	0.02379	2.272
Cr2677		1.318	ppm	0.008767	0.6649
Cu327.39		1.138	ppm	0.01210	1.064
Fe2395		216.9	ppm	1.345	0.6201
K7694		14.77	ppm	0.2721	1.843
Mg2790		31.22	ppm	0.07525	0.2410
Mn2576		3.151	ppm	0.01733	0.5499
Mo2020		0.9373	ppm	0.006348	0.6772
Na5895		10.72	ppm	0.003623	0.03379
Ni2316		1.197	ppm	0.02570	2.147
Pb2203		1.343	ppm	0.02656	1.977
Sb2068		0.9384	ppm	0.006206	0.6613
Se1960		0.9508	ppm	0.01839	1.934
Si2124		5.789	ppm	0.07990	1.380
Sn1899		0.9680	ppm	0.02126	2.196
Sr4077		1.037	ppm	0.001085	0.1047
Ti3361		2.780	ppm	0.03142	1.130
Tl1908		0.9448	ppm	0.03607	3.817
V2924		1.330	ppm	0.009037	0.6795
Zn2062		1.571	ppm	0.03525	2.244
Y371.030		8,272.5	Cts/S	126.07	1.5239
Y029A		152,680	Cts/S	1,782.9	1.1677
Y029R		839.12	Cts/S	5.6083	0.66836

720-90960-a-12-f sd

Acquire Date: 1/31/2019 2:47:04PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0001490	ppm	0.0003760	252.8
Al3961		23.46	ppm	0.2317	0.9874
As1890		0.01883	ppm	0.0008430	4.476
Au2427		2.901	ppm	0.05446	1.877
B_2089		0.004007	ppm	0.0004290	10.70
Ba4934		0.2285	ppm	0.002954	1.293
Be3130		0.001705	ppm	0.0002140	12.56
Ca3179		9.310	ppm	0.1576	1.693
Cd2144		0.002275	ppm	0.0004520	19.85
Co2286		0.02384	ppm	0.0008310	3.486
Cr2677		0.08713	ppm	0.001034	1.187
Cu327.39		0.04490	ppm	0.001424	3.172
Fe2395		46.24	ppm	1.074	2.323
K7694		0.8162	ppm	0.08140	9.972
Mg2790		5.228	ppm	0.07562	1.446
Mn2576		0.5032	ppm	0.0003120	0.06205
Mo2020		0.002084	ppm	0.0004310	20.68
Na5895		0.2448	ppm	0.05123	20.93
Ni2316		0.05347	ppm	0.002024	3.786
Pb2203		0.08946	ppm	0.001730	1.933
Sb2068		0.001092	ppm	0.001420	130.0
Se1960		0.001970	ppm	0.002577	130.8
Si2124		0.9970	ppm	0.02926	2.934
Sn1899		0.002796	ppm	0.001069	38.24
Sr4077		0.03582	ppm	0.0004100	1.145
Ti3361		0.3935	ppm	0.002474	0.6289
Tl1908		0.01286	ppm	0.0001060	0.8255
V2924		0.08745	ppm	0.0005260	0.6015
Zn2062		0.1303	ppm	0.002869	2.201
Y371.030		8,707.5	Cts/S	47.810	0.54907
Y029A		160,110	Cts/S	909.63	0.56813
Y029R		866.03	Cts/S	17.112	1.9759

720-90960-a-12-f

Acquire Date: 1/31/2019 2:51:53PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001598	ppm	0.001481	92.66
Al3961		107.1	ppm	1.093	1.021
As1890		0.08765	ppm	0.001563	1.783
Au2427		13.28	ppm	0.3593	2.706
B_2089		0.007577	ppm	0.0006060	8.000
Ba4934		1.053	ppm	0.0007060	0.06708
Be3130		0.002844	ppm	0.001406	49.44
Ca3179		43.09	ppm	0.5954	1.382

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-12-f

Acquire Date: 1/31/2019 2:51:53PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.003697	ppm	0.0004250	11.49
Co2286		0.1045	ppm	0.0004410	0.4215
Cr2677		0.3920	ppm	0.001929	0.4922
Cu327.39		0.1986	ppm	0.002645	1.331
Fe2395		208.6	ppm	1.777	0.8519
K7694		4.808	ppm	0.1493	3.104
Mg2790		23.21	ppm	0.2433	1.048
Mn2576		2.274	ppm	0.006659	0.2928
Mo2020		0.001846	ppm	0.0004010	21.70
Na5895		1.265	ppm	0.01569	1.240
Ni2316		0.2456	ppm	0.0006710	0.2733
Pb2203		0.3968	ppm	0.0003120	0.07855
Sb2068		0.009732	ppm	0.0007040	7.236
Se1960		0.006835	ppm	0.001443	21.12
Si2124		4.711	ppm	0.01694	0.3595
Sn1899		0.01220	ppm	0.0003490	2.856
Sr4077		0.1621	ppm	0.0002830	0.1748
Ti3361		1.903	ppm	0.02484	1.305
Tl1908		0.003685	ppm	0.0003610	9.789
V2924		0.3997	ppm	0.001984	0.4965
Zn2062		0.6182	ppm	0.0006580	0.1064
Y371.030		8,440.7	Cts/S	7.1136	0.084277
Y029A		154,240	Cts/S	950.05	0.61595
Y029R		865.04	Cts/S	0.47730	0.055176

720-90946-a-25-b

Acquire Date: 1/31/2019 2:56:37PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0004880	ppm	0.0002320	47.66
Al3961		2.529	ppm	0.2351	9.296
As1890		0.004989	ppm	0.001075	21.54
Au2427		1.765	ppm	0.4138	23.45
B_2089		0.005706	ppm	0.0003370	5.909
Ba4934		0.3279	ppm	0.0005000	0.1524
Be3130		0.0007500	ppm	0.0003940	52.58
Ca3179		436.8	ppm	6.777	1.551
Cd2144		0.002214	ppm	0.00003900	1.764
Co2286		0.006953	ppm	0.0004770	6.856
Cr2677		0.02466	ppm	0.0009760	3.956
Cu327.39		1.442	ppm	0.01183	0.8208
Fe2395		48.66	ppm	0.1403	0.2884
K7694		0.2634	ppm	0.06500	24.68
Mg2790		3.724	ppm	0.09434	2.533

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90946-a-25-b

Acquire Date: 1/31/2019 2:56:37PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		0.5221	ppm	0.005199	0.9959
Mo2020		0.002242	ppm	0.0002720	12.15
Na5895		5.982	ppm	0.1325	2.216
Ni2316		0.07416	ppm	0.002153	2.903
Pb2203		0.2681	ppm	0.007603	2.836
Sb2068		0.009661	ppm	0.0004410	4.566
Se1960		-0.002443	ppm	0.0005090	20.84
Si2124		0.4081	ppm	0.01258	3.082
Sn1899		0.4603	ppm	0.01645	3.574
Sr4077		0.6223	ppm	0.005353	0.8602
Ti3361		0.06082	ppm	0.003793	6.236
Tl1908		0.003310	ppm	0.0008590	25.94
V2924		0.009227	ppm	0.0007250	7.863
Zn2062		1.492	ppm	0.04344	2.911
Y371.030		7,944.7	Cts/S	48.716	0.61319
Y029A		142,800	Cts/S	173.65	0.12160
Y029R		800.18	Cts/S	2.3899	0.29867

720-90759-a-18-a@5

Acquire Date: 1/31/2019 3:01:25PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0006870	ppm	0.002010	292.5
Al3961		163.6	ppm	0.06998	0.04278
As1890		0.07785	ppm	0.003482	4.472
Au2427		12.92	ppm	0.5795	4.484
B_2089		0.03565	ppm	0.0005110	1.432
Ba4934		0.8638	ppm	0.001246	0.1442
Be3130		0.003158	ppm	0.0001290	4.077
Ca3179		99.26	ppm	0.08881	0.08947
Cd2144		0.001366	ppm	0.00007300	5.377
Co2286		0.07922	ppm	0.001310	1.653
Cr2677		0.3273	ppm	0.0004170	0.1275
Cu327.39		0.1674	ppm	0.0006710	0.4009
Fe2395		235.5	ppm	0.6265	0.2660
K7694		3.529	ppm	0.2252	6.383
Mg2790		63.66	ppm	0.2254	0.3541
Mn2576		3.344	ppm	0.009613	0.2875
Mo2020		0.0004370	ppm	0.00001500	3.446
Na5895		1.269	ppm	0.04792	3.776
Ni2316		0.4383	ppm	0.003724	0.8495
Pb2203		0.05193	ppm	0.002834	5.457
Sb2068		0.006848	ppm	0.001105	16.14
Se1960		0.001925	ppm	0.003159	164.2
Si2124		6.496	ppm	0.03340	0.5141

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90759-a-18-a@5

Acquire Date: 1/31/2019 3:01:25PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.006291	ppm	0.00002500	0.3975
Sr4077		0.2489	ppm	0.0001100	0.04420
Ti3361		6.069	ppm	0.04177	0.6883
Tl1908		0.001740	ppm	0.001925	110.6
V2924		0.4565	ppm	0.002519	0.5517
Zn2062		0.4199	ppm	0.004686	1.116
Y371.030		8,269.5	Cts/S	14.727	0.17809
Y029A		148,350	Cts/S	55.974	0.037730
Y029R		848.60	Cts/S	3.9723	0.46810

ICV/CCV

Acquire Date: 1/31/2019 3:06:08PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2511	ppm	0.004543	1.809	.2500	Rel(%)	Pass	
Al3961		14.26	ppm	0.09899	0.6943	15.00	Rel(%)	Pass	
As1890		0.4932	ppm	0.0005860	0.1187	.5000	Rel(%)	Pass	
Au2427		110.9	ppm	1.075	0.9696				
B_2089		0.4875	ppm	0.004689	0.9618	.5000	Rel(%)	Pass	
Ba4934	**W**	**0.4701**	**ppm**	**0.009614**	**2.045**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Be3130	**W**	**0.4693**	**ppm**	**0.00008200**	**0.01753**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ca3179		15.27	ppm	0.1946	1.275	15.00	Rel(%)	Pass	
Cd2144		0.4951	ppm	0.004331	0.8748	.5000	Rel(%)	Pass	
Co2286		0.4950	ppm	0.004864	0.9827	.5000	Rel(%)	Pass	
Cr2677		0.4963	ppm	0.0005340	0.1076	.5000	Rel(%)	Pass	
Cu327.39		0.4951	ppm	0.003489	0.7048	.5000	Rel(%)	Pass	
Fe2395		15.41	ppm	0.3943	2.559	15.00	Rel(%)	Pass	
K7694	**W**	**14.08**	**ppm**	**0.1538**	**1.093**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mg2790		14.44	ppm	0.1959	1.356	15.00	Rel(%)	Pass	
Mn2576		0.5098	ppm	0.0001070	0.02096	.5000	Rel(%)	Pass	
Mo2020		0.4955	ppm	0.0001730	0.03500	.5000	Rel(%)	Pass	
Na5895	**W**	**13.75**	**ppm**	**0.2001**	**1.455**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Ni2316		0.5063	ppm	0.004371	0.8632	.5000	Rel(%)	Pass	
Pb2203		0.5084	ppm	0.005058	0.9949	.5000	Rel(%)	Pass	
Sb2068		0.4920	ppm	0.0008130	0.1653	.5000	Rel(%)	Pass	
Se1960		0.4935	ppm	0.004826	0.9779	.5000	Rel(%)	Pass	
Si2124		0.5243	ppm	0.001957	0.3733				
Sn1899		0.5100	ppm	0.006091	1.194	.5000	Rel(%)	Pass	
Sr4077	**W**	**0.4680**	**ppm**	**0.002588**	**0.5530**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ti3361		0.4860	ppm	0.007398	1.522	.5000	Rel(%)	Pass	
Tl1908		0.5125	ppm	0.002098	0.4094	.5000	Rel(%)	Pass	
V2924		0.5002	ppm	0.001931	0.3860	.5000	Rel(%)	Pass	
Zn2062		0.5014	ppm	0.005031	1.003	.5000	Rel(%)	Pass	
Y371.030		8,424.7	Cts/S	68.224	0.80981				
Y029A		154,850	Cts/S	260.14	0.16800				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 3:06:08PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Y029R		871.68	Cts/S	2.6050	0.29885				

ICB/CCB

Acquire Date: 1/31/2019 3:10:52PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0004380	ppm	0.0004870	111.2	.0000	Abs	Pass	
Al3961	**F**	**0.2406**	**ppm**	**0.2231**	**92.73**	**.0000**	**Abs**	**Fail High**	**.2000**
As1890		0.0001990	ppm	0.0002930	147.3	.0000	Abs	Pass	
Au2427		1.516	ppm	0.04460	2.942				
B_2089		0.001104	ppm	0.0003440	31.22	.0000	Abs	Pass	
Ba4934		0.003822	ppm	0.003509	91.80	.0000	Abs	Pass	
Be3130		0.001056	ppm	0.0003810	36.08	.0000	Abs	Pass	
Ca3179	**F**	**0.3731**	**ppm**	**0.4092**	**109.7**	**.0000**	**Abs**	**Fail High**	**.2000**
Cd2144		0.001003	ppm	0.0001280	12.72	.0000	Abs	Pass	
Co2286		0.001263	ppm	0.00006300	4.974	.0000	Abs	Pass	
Cr2677		0.001102	ppm	0.000008000	0.7391	.0000	Abs	Pass	
Cu327.39		0.001504	ppm	0.0001410	9.369	.0000	Abs	Pass	
Fe2395	**F**	**0.5101**	**ppm**	**0.3992**	**78.26**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		-0.2182	ppm	0.1774	81.29	.0000	Abs	Pass	
Mg2790	**F**	**0.2388**	**ppm**	**0.007634**	**3.197**	**.0000**	**Abs**	**Fail High**	**.2000**
Mn2576		0.004206	ppm	0.0005280	12.55	.0000	Abs	Pass	
Mo2020		0.001132	ppm	0.0003170	27.99	.0000	Abs	Pass	
Na5895		0.005869	ppm	0.01305	222.4	.0000	Abs	Pass	
Ni2316		0.0009330	ppm	0.0009640	103.4	.0000	Abs	Pass	
Pb2203		0.002371	ppm	0.0003440	14.49	.0000	Abs	Pass	
Sb2068		-0.0008290	ppm	0.002371	286.0	.0000	Abs	Pass	
Se1960		0.002118	ppm	0.001387	65.47	.0000	Abs	Pass	
Si2124		0.009581	ppm	0.00009000	0.9390				
Sn1899		-0.0001170	ppm	0.0004540	389.7	.0000	Abs	Pass	
Sr4077		0.001739	ppm	0.001716	98.69	.0000	Abs	Pass	
Ti3361	**F**	**0.01132**	**ppm**	**0.003333**	**29.44**	**.0000**	**Abs**	**Fail High**	**.0100**
Tl1908		0.005279	ppm	0.0007900	14.96	.0000	Abs	Pass	
V2924		0.001323	ppm	0.0003090	23.37	.0000	Abs	Pass	
Zn2062		-0.0008160	ppm	0.0001030	12.62	.0000	Abs	Pass	
Y371.030		8,541.2	Cts/S	66.583	0.77955				
Y029A		158,550	Cts/S	276.23	0.17422				
Y029R		844.81	Cts/S	12.463	1.4752				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Author:

Published: 2/1/2019 7:12:16AM

Notes:

Blank

Acquire Date: 1/31/2019 4:46:26PM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-6.632	Cts/S	0.1382	2.084
Al3961		-1.350	Cts/S	5.162	382.4
As1890		0.4994	Cts/S	0.7063	141.4
Au2427		-0.00007400	Cts/S	0.00004800	64.90
B_2089		0.0002910	Cts/S	0.00008600	29.74
Ba4934		11.95	Cts/S	1.131	9.468
Be3130		0.3656	Cts/S	2.435	666.0
Ca3179		0.01843	Cts/S	0.002048	11.11
Cd2144		0.001191	Cts/S	0.0003370	28.31
Co2286		0.001223	Cts/S	0.0001480	12.13
Cr2677		-3.664	Cts/S	3.348	91.37
Cu327.39		-0.7411	Cts/S	32.30	4,358
Fe2395		0.006542	Cts/S	0.001384	21.16
K7694		0.05059	Cts/S	0.005922	11.71
Mg2790		-0.3225	Cts/S	1.170	362.9
Mn2576		131.8	Cts/S	23.14	17.56
Mo2020		1.384	Cts/S	1.053	76.10
Na5895		0.07754	Cts/S	0.0004730	0.6097
Ni2316		0.0001030	Cts/S	0.0001400	136.2
Pb2203		-0.0002990	Cts/S	0.00005900	19.78
Sb2068		0.7181	Cts/S	0.8236	114.7
Se1960		-0.0007470	Cts/S	0.0001010	13.47
Si2124		0.01129	Cts/S	0.0008730	7.729
Sn1899		0.00001500	Cts/S	0.00005700	373.5
Sr4077		-1.940	Cts/S	2.729	140.7
Ti3361		0.00005700	Cts/S	0.00001000	16.77
Tl1908		0.0002290	Cts/S	0.00003200	14.03
V2924		7.108	Cts/S	10.97	154.3
Zn2062		0.0009420	Cts/S	0.0002200	23.35
Y371.030		8,207.1	Cts/S	1.0529	0.012830
Y029A		152,150	Cts/S	968.70	0.63666
Y029R		794.40	Cts/S	4.8437	0.60973

CAL STD.

Acquire Date: 1/31/2019 4:51:18PM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5,403	Cts/S	13.60	0.2516
Al3961		911.2	Cts/S	13.14	1.442
As1890		519.3	Cts/S	2.974	0.5727

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

CAL STD.

Acquire Date: 1/31/2019 4:51:18PM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Au2427		0.00002400	Cts/S	0.00001500	63.74
B_2089		0.1986	Cts/S	0.001022	0.5148
Ba4934		2,264	Cts/S	11.01	0.4864
Be3130		2,535	Cts/S	30.95	1.221
Ca3179		2.261	Cts/S	0.02611	1.155
Cd2144		2.456	Cts/S	0.01600	0.6517
Co2286		0.7413	Cts/S	0.005027	0.6781
Cr2677		14,080	Cts/S	7.298	0.05184
Cu327.39		11,740	Cts/S	7.452	0.06346
Fe2395		0.6490	Cts/S	0.0005110	0.07881
K7694		1.374	Cts/S	0.03093	2.251
Mg2790		106.2	Cts/S	3.164	2.979
Mn2576		54,100	Cts/S	45.00	0.08319
Mo2020		2,546	Cts/S	6.116	0.2402
Na5895		5.210	Cts/S	0.06169	1.184
Ni2316		0.5072	Cts/S	0.003673	0.7242
Pb2203		0.1385	Cts/S	0.0006790	0.4902
Sb2068		390.8	Cts/S	0.4379	0.1120
Se1960		0.03085	Cts/S	0.0003800	1.232
Si2124		5.491	Cts/S	0.03275	0.5964
Sn1899		0.1528	Cts/S	0.001479	0.9683
Sr4077		5,212	Cts/S	69.86	1.340
Ti3361		0.001762	Cts/S	0.00002800	1.596
Tl1908		0.02307	Cts/S	0.00006300	0.2752
V2924		22,210	Cts/S	11.64	0.05242
Zn2062		1.034	Cts/S	0.006616	0.6398
Y371.030		8,317.2	Cts/S	39.171	0.47097
Y029A		154,820	Cts/S	361.20	0.23330
Y029R		831.29	Cts/S	2.8711	0.34538

STD 1

Acquire Date: 1/31/2019 4:56:01PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.5062	ppm	0.001145	0.2263	.5000	Rel(%)	Pass	
Al3961		20.35	ppm	0.2003	0.9841	20.00	Rel(%)	Pass	
As1890		1.009	ppm	0.001822	0.1806	1.000	Rel(%)	Pass	
Au2427	**F**	**0.5091**	**ppm**	**0.3367**	**66.14**	**1.000**	**Rel(%)**	**Fail Low**	**-5.000**
B_2089		1.018	ppm	0.001584	0.1556	1.000	Rel(%)	Pass	
Ba4934		1.027	ppm	0.009341	0.9094	1.000	Rel(%)	Pass	
Be3130		1.018	ppm	0.003460	0.3398	1.000	Rel(%)	Pass	
Ca3179		20.28	ppm	0.1717	0.8464	20.00	Rel(%)	Pass	
Cd2144		1.022	ppm	0.001086	0.1063	1.000	Rel(%)	Pass	
Co2286		1.023	ppm	0.00007000	0.006888	1.000	Rel(%)	Pass	
Cr2677		1.010	ppm	0.003674	0.3636	1.000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

STD 1

Acquire Date: 1/31/2019 4:56:01PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Cu327.39		1.007	ppm	0.004522	0.4489	1.000	Rel(%)	Pass	
Fe2395		20.11	ppm	0.1716	0.8533	20.00	Rel(%)	Pass	
K7694		20.13	ppm	0.04766	0.2368	20.00	Rel(%)	Pass	
Mg2790		20.85	ppm	0.06134	0.2942	20.00	Rel(%)	Pass	
Mn2576		1.011	ppm	0.006289	0.6219	1.000	Rel(%)	Pass	
Mo2020		1.008	ppm	0.004911	0.4872	1.000	Rel(%)	Pass	
Na5895		20.12	ppm	0.1316	0.6540	20.00	Rel(%)	Pass	
Ni2316		1.026	ppm	0.0005660	0.05512	1.000	Rel(%)	Pass	
Pb2203		1.026	ppm	0.005891	0.5741	1.000	Rel(%)	Pass	
Sb2068		1.011	ppm	0.007150	0.7075	1.000	Rel(%)	Pass	
Se1960		1.024	ppm	0.002707	0.2644	1.000	Rel(%)	Pass	
Si2124		9.920	ppm	0.08599	0.8668	10.00	Rel(%)	Pass	
Sn1899		1.033	ppm	0.002132	0.2064	1.000	Rel(%)	Pass	
Sr4077		1.019	ppm	0.01170	1.148	1.000	Rel(%)	Pass	
Ti3361		1.039	ppm	0.006818	0.6560	1.000	Rel(%)	Pass	
Tl1908		1.035	ppm	0.004415	0.4266	1.000	Rel(%)	Pass	
V2924		1.009	ppm	0.006326	0.6272	1.000	Rel(%)	Pass	
Zn2062		1.027	ppm	0.001320	0.1286	1.000	Rel(%)	Pass	
Y371.030		8,154.4	Cts/S	44.994	0.55178				
Y029A		152,550	Cts/S	855.51	0.56082				
Y029R		840.11	Cts/S	13.244	1.5764				

ICV/CCV

Acquire Date: 1/31/2019 5:00:44PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2590	ppm	0.0003350	0.1294	.2500	Rel(%)	Pass	
Al3961	**W**	**15.96**	**ppm**	**0.01020**	**0.06392**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
As1890	**W**	**0.5315**	**ppm**	**0.001930**	**0.3630**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Au2427		84.33	ppm	0.1372	0.1627				
B_2089	**W**	**0.5337**	**ppm**	**0.001393**	**0.2610**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ba4934		0.5109	ppm	0.0006950	0.1360	.5000	Rel(%)	Pass	
Be3130	**F**	**0.5527**	**ppm**	**0.0004050**	**0.07318**	**.5000**	**Rel(%)**	**Fail High**	**10.00**
Ca3179	**W**	**15.98**	**ppm**	**0.2883**	**1.804**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Cd2144	**W**	**0.5335**	**ppm**	**0.001532**	**0.2872**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Co2286	**W**	**0.5371**	**ppm**	**0.002309**	**0.4299**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677	**W**	**0.5399**	**ppm**	**0.0009630**	**0.1784**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cu327.39	**W**	**0.5350**	**ppm**	**0.001527**	**0.2855**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Fe2395	**W**	**16.31**	**ppm**	**0.07841**	**0.4809**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
K7694	**W**	**15.99**	**ppm**	**0.1374**	**0.8591**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mg2790		15.65	ppm	0.3736	2.386	15.00	Rel(%)	Pass	
Mn2576		0.5141	ppm	0.00002500	0.004811	.5000	Rel(%)	Pass	
Mo2020	**W**	**0.5310**	**ppm**	**0.0005840**	**0.1099**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Na5895		15.16	ppm	0.1683	1.110	15.00	Rel(%)	Pass	
Ni2316		0.5202	ppm	0.002802	0.5387	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 5:00:44PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Pb2203		0.5241	ppm	0.001026	0.1958	.5000	Rel(%)	Pass	
Sb2068	**W**	**0.5345**	**ppm**	**0.001674**	**0.3131**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Se1960		0.5222	ppm	0.001981	0.3794	.5000	Rel(%)	Pass	
Si2124		0.5826	ppm	0.006844	1.175				
Sn1899		0.5079	ppm	0.004937	0.9720	.5000	Rel(%)	Pass	
Sr4077	**W**	**0.5336**	**ppm**	**0.002291**	**0.4294**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ti3361	**W**	**0.5278**	**ppm**	**0.001247**	**0.2363**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Tl1908	**W**	**0.5401**	**ppm**	**0.003052**	**0.5650**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924	**W**	**0.5281**	**ppm**	**0.001113**	**0.2108**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Zn2062	**W**	**0.5264**	**ppm**	**0.001940**	**0.3686**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Y371.030		8,509.7	Cts/S	38.522	0.45269				
Y029A		155,450	Cts/S	500.08	0.32169				
Y029R		820.04	Cts/S	9.8525	1.2015				

ICB/CCB

Acquire Date: 1/31/2019 5:05:28PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.001717	ppm	0.0001290	7.540	.0000	Abs	Pass	
Al3961		-0.05316	ppm	0.01317	24.77	.0000	Abs	Pass	
As1890		0.0007000	ppm	0.001807	258.4	.0000	Abs	Pass	
Au2427		0.7993	ppm	0.4325	54.11				
B_2089		0.003195	ppm	0.0005880	18.39	.0000	Abs	Pass	
Ba4934		0.0001670	ppm	0.001617	970.6	.0000	Abs	Pass	
Be3130		0.0007840	ppm	0.0002040	26.02	.0000	Abs	Pass	
Ca3179		-0.03732	ppm	0.03775	101.1	.0000	Abs	Pass	
Cd2144		0.001993	ppm	0.0009350	46.90	.0000	Abs	Pass	
Co2286	**F**	**0.002041**	**ppm**	**0.001124**	**55.06**	**.0000**	**Abs**	**Fail High**	**.0020**
Cr2677		0.0009160	ppm	0.0005390	58.86	.0000	Abs	Pass	
Cu327.39		0.001676	ppm	0.002054	122.6	.0000	Abs	Pass	
Fe2395		-0.1607	ppm	0.02889	17.98	.0000	Abs	Pass	
K7694		-0.007074	ppm	0.02104	297.4	.0000	Abs	Pass	
Mg2790		0.05633	ppm	0.06040	107.2	.0000	Abs	Pass	
Mn2576		-0.0009130	ppm	0.0007100	77.73	.0000	Abs	Pass	
Mo2020		0.002167	ppm	0.001148	52.98	.0000	Abs	Pass	
Na5895		-0.1222	ppm	0.02387	19.54	.0000	Abs	Pass	
Ni2316		0.002544	ppm	0.0003150	12.39	.0000	Abs	Pass	
Pb2203		0.002555	ppm	0.0005060	19.81	.0000	Abs	Pass	
Sb2068		0.001703	ppm	0.0005460	32.05	.0000	Abs	Pass	
Se1960		0.003164	ppm	0.001148	36.29	.0000	Abs	Pass	
Si2124		0.01057	ppm	0.009277	87.75				
Sn1899		0.001683	ppm	0.0009440	56.11	.0000	Abs	Pass	
Sr4077		0.0007480	ppm	0.0001850	24.69	.0000	Abs	Pass	
Ti3361		0.0008850	ppm	0.008890	1,005	.0000	Abs	Pass	
Tl1908		0.0008220	ppm	0.0009480	115.3	.0000	Abs	Pass	
V2924		0.001176	ppm	0.0004960	42.22	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 5:05:28PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Zn2062		0.001661	ppm	0.0009900	59.58	.0000	Abs	Pass	
Y371.030		8,511.2	Cts/S	17.420	0.20467				
Y029A		158,910	Cts/S	821.26	0.51680				
Y029R		832.28	Cts/S	3.9952	0.48003				

CRI

Acquire Date: 1/31/2019 5:10:23PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.01324	ppm	0.00003400	0.2561	.0100	Abs	Pass	
Al3961		0.5112	ppm	0.04573	8.944	.4000	Abs	Pass	
As1890		0.01221	ppm	0.001408	11.54	.0100	Abs	Pass	
Au2427		3.065	ppm	0.1565	5.105				
B_2089	**F**	**0.1711**	**ppm**	**0.0002340**	**0.1367**	**.1000**	**Abs**	**Fail High**	**.1500**
Ba4934		0.009181	ppm	0.0003920	4.275	.0100	Abs	Pass	
Be3130		0.004969	ppm	0.0003640	7.332	.0040	Abs	Pass	
Ca3179		0.3992	ppm	0.006223	1.559	.4000	Abs	Pass	
Cd2144		0.005768	ppm	0.0006590	11.43	.0040	Abs	Pass	
Co2286	**F**	**0.006065**	**ppm**	**0.0005690**	**9.387**	**.0040**	**Abs**	**Fail High**	**.0060**
Cr2677		0.02461	ppm	0.0001450	0.5900	.0200	Abs	Pass	
Cu327.39		0.04714	ppm	0.0001340	0.2850	.0400	Abs	Pass	
Fe2395		0.5051	ppm	0.04003	7.925	.6000	Abs	Pass	
K7694		2.191	ppm	0.03177	1.450	2.000	Abs	Pass	
Mg2790		0.2258	ppm	0.1726	76.43	.4000	Abs	Pass	
Mn2576		0.04504	ppm	0.0001870	0.4153	.0400	Abs	Pass	
Mo2020		0.02359	ppm	0.0005000	2.118	.0200	Abs	Pass	
Na5895		1.244	ppm	0.09191	7.389	.4000	Abs	Pass	
Ni2316		0.02480	ppm	0.0003120	1.259	.0200	Abs	Pass	
Pb2203		0.01328	ppm	0.0009290	6.995	.0100	Abs	Pass	
Sb2068		0.02393	ppm	0.003209	13.41	.0200	Abs	Pass	
Se1960		0.04632	ppm	0.0008410	1.815	.0400	Abs	Pass	
Si2124		1.227	ppm	0.01267	1.033				
Sn1899		0.02367	ppm	0.0003460	1.460	.0200	Abs	Pass	
Sr4077		0.01104	ppm	0.0001480	1.337	.0100	Abs	Pass	
Ti3361		0.02373	ppm	0.002631	11.09	.0200	Abs	Pass	
Tl1908		0.02160	ppm	0.001295	5.997	.0200	Abs	Pass	
V2924		0.02391	ppm	0.0007440	3.113	.0200	Abs	Pass	
Zn2062		0.04646	ppm	0.0002270	0.4881	.0400	Abs	Pass	
Y371.030		8,439.7	Cts/S	29.707	0.35199				
Y029A		156,900	Cts/S	332.12	0.21168				
Y029R		823.40	Cts/S	6.2933	0.76430				

ICSA

Acquire Date: 1/31/2019 5:15:15PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001377	ppm	0.001480	107.5	.0000	Abs	Pass	
Al3961		532.2	ppm	1.991	0.3741	500.0	Abs	Pass	
As1890		-0.002724	ppm	0.002198	80.68	.0000	Abs	Pass	
Au2427		25.32	ppm	0.4629	1.828				
B_2089		-0.005143	ppm	0.0006670	12.97	.0000	Abs	Pass	
Ba4934		-0.001124	ppm	0.003461	307.8	.0000	Abs	Pass	
Be3130		-0.00005300	ppm	0.0002160	405.7	.0000	Abs	Pass	
Ca3179		565.5	ppm	6.773	1.198	500.0	Abs	Pass	
Cd2144		-0.001388	ppm	0.00001700	1.226	.0000	Abs	Pass	
Co2286		0.001646	ppm	0.0005850	35.55	.0000	Abs	Pass	
Cr2677		0.001321	ppm	0.00004700	3.546	.0000	Abs	Pass	
Cu327.39		-0.007792	ppm	0.001296	16.63	.0000	Abs	Pass	
Fe2395		546.8	ppm	5.364	0.9809	500.0	Abs	Pass	
K7694		0.6330	ppm	0.003051	0.4820	.0000	Abs	Pass	
Mg2790		514.2	ppm	0.4254	0.08273	500.0	Abs	Pass	
Mn2576		0.004313	ppm	0.00008900	2.057	.0000	Abs	Pass	
Mo2020		0.003240	ppm	0.0004580	14.12	.0000	Abs	Pass	
Na5895		0.2298	ppm	0.04075	17.73	.0000	Abs	Pass	
Ni2316		0.002262	ppm	0.0002180	9.617	.0000	Abs	Pass	
Pb2203		0.003783	ppm	0.0008450	22.33	.0000	Abs	Pass	
Sb2068		-0.005929	ppm	0.001356	22.87	.0000	Abs	Pass	
Se1960		-0.006351	ppm	0.0004960	7.812	.0000	Abs	Pass	
Si2124		0.02364	ppm	0.004442	18.79				
Sn1899		0.0007720	ppm	0.001434	185.8	.0000	Abs	Pass	
Sr4077		-0.003059	ppm	0.00004200	1.360	.0000	Abs	Pass	
Ti3361		-0.007941	ppm	0.007453	93.85	.0000	Abs	Pass	
Tl1908		-0.005441	ppm	0.002070	38.04	.0000	Abs	Pass	
V2924		-0.002600	ppm	0.0001010	3.875	.0000	Abs	Pass	
Zn2062		0.003968	ppm	0.0001430	3.603	.0000	Abs	Pass	
Y371.030		6,707.0	Cts/S	22.681	0.33817				
Y029A		124,590	Cts/S	572.16	0.45924				
Y029R		746.68	Cts/S	10.232	1.3703				

ICSAB

Acquire Date: 1/31/2019 5:20:02PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.1232	ppm	0.0002920	0.2375	.1250	Rel(%)	Pass	
Al3961		527.9	ppm	1.136	0.2152	500.0	Rel(%)	Pass	
As1890		0.2400	ppm	0.002025	0.8436	.2500	Rel(%)	Pass	
Au2427		24.34	ppm	0.5762	2.367				
B_2089		0.2768	ppm	0.0001460	0.05283	.2500	Rel(%)	Pass	
Ba4934		0.2678	ppm	0.002239	0.8360	.2500	Rel(%)	Pass	
Be3130		0.2625	ppm	0.00006900	0.02630	.2500	Rel(%)	Pass	
Ca3179		560.4	ppm	10.33	1.843	500.0	Rel(%)	Pass	
Cd2144		0.2736	ppm	0.0004960	0.1813	.2500	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSAB

Acquire Date: 1/31/2019 5:20:02PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Co2286		0.2737	ppm	0.0006920	0.2530	.2500	Rel(%)	Pass	
Cr2677		0.2331	ppm	0.0003130	0.1344	.2500	Rel(%)	Pass	
Cu327.39		0.2346	ppm	0.0005190	0.2213	.2500	Rel(%)	Pass	
Fe2395		540.3	ppm	11.42	2.114	500.0	Rel(%)	Pass	
K7694		0.7054	ppm	0.1743	24.71				
Mg2790		501.9	ppm	0.1330	0.02651	500.0	Rel(%)	Pass	
Mn2576		0.2289	ppm	0.00002400	0.01047	.2500	Rel(%)	Pass	
Mo2020		0.2370	ppm	0.0004230	0.1783	.2500	Rel(%)	Pass	
Na5895		0.3162	ppm	0.05377	17.00				
Ni2316		0.2703	ppm	0.0001040	0.03852	.2500	Rel(%)	Pass	
Pb2203		0.2671	ppm	0.002784	1.042	.2500	Rel(%)	Pass	
Sb2068		0.2352	ppm	0.006905	2.936	.2500	Rel(%)	Pass	
Se1960		0.2755	ppm	0.003597	1.306	.2500	Rel(%)	Pass	
Si2124		0.2988	ppm	0.007161	2.397				
Sn1899		0.2687	ppm	0.001296	0.4824	.2500	Rel(%)	Pass	
Sr4077		0.2616	ppm	0.0009520	0.3640	.2500	Rel(%)	Pass	
Ti3361	**F**	**0.3161**	**ppm**	**0.01411**	**4.464**	**.2500**	**Rel(%)**	**Fail High**	**20.00**
Tl1908		0.2358	ppm	0.002259	0.9580	.2500	Rel(%)	Pass	
V2924		0.2343	ppm	0.001079	0.4605	.2500	Rel(%)	Pass	
Zn2062		0.2767	ppm	0.0004340	0.1570	.2500	Rel(%)	Pass	
Y371.030		6,717.1	Cts/S	33.560	0.49962				
Y029A		123,810	Cts/S	654.30	0.52845				
Y029R		747.95	Cts/S	15.506	2.0731				

ICV/CCV

Acquire Date: 1/31/2019 5:24:43PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2569	ppm	0.0009670	0.3763	.2500	Rel(%)	Pass	
Al3961	**F**	**16.59**	**ppm**	**0.4359**	**2.628**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
As1890		0.5168	ppm	0.001575	0.3047	.5000	Rel(%)	Pass	
Au2427		84.71	ppm	0.2178	0.2571				
B_2089		0.5191	ppm	0.001440	0.2774	.5000	Rel(%)	Pass	
Ba4934		0.5164	ppm	0.003346	0.6479	.5000	Rel(%)	Pass	
Be3130		0.5250	ppm	0.001178	0.2244	.5000	Rel(%)	Pass	
Ca3179	**F**	**16.79**	**ppm**	**0.7740**	**4.610**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
Cd2144		0.5207	ppm	0.001123	0.2156	.5000	Rel(%)	Pass	
Co2286		0.5240	ppm	0.001582	0.3020	.5000	Rel(%)	Pass	
Cr2677		0.5216	ppm	0.0002310	0.04438	.5000	Rel(%)	Pass	
Cu327.39		0.5176	ppm	0.003440	0.6645	.5000	Rel(%)	Pass	
Fe2395	**F**	**16.75**	**ppm**	**0.6463**	**3.858**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
K7694		15.25	ppm	0.2740	1.797	15.00	Rel(%)	Pass	
Mg2790	**F**	**16.72**	**ppm**	**0.2349**	**1.405**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
Mn2576		0.5114	ppm	0.001309	0.2560	.5000	Rel(%)	Pass	
Mo2020		0.5186	ppm	0.001775	0.3423	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 5:24:43PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Na5895		14.85	ppm	0.1585	1.068	15.00	Rel(%)	Pass	
Ni2316		0.5221	ppm	0.0003330	0.06372	.5000	Rel(%)	Pass	
Pb2203		0.5235	ppm	0.001366	0.2610	.5000	Rel(%)	Pass	
Sb2068		0.5188	ppm	0.00008100	0.01552	.5000	Rel(%)	Pass	
Se1960		0.5207	ppm	0.0001330	0.02562	.5000	Rel(%)	Pass	
Si2124		0.5281	ppm	0.006442	1.220				
Sn1899		0.5195	ppm	0.0004250	0.08174	.5000	Rel(%)	Pass	
Sr4077		0.5145	ppm	0.001792	0.3483	.5000	Rel(%)	Pass	
Ti3361		0.5239	ppm	0.007276	1.389	.5000	Rel(%)	Pass	
Tl1908	**W**	**0.5314**	**ppm**	**0.002248**	**0.4229**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.5174	ppm	0.001609	0.3110	.5000	Rel(%)	Pass	
Zn2062		0.5238	ppm	0.0008090	0.1545	.5000	Rel(%)	Pass	
Y371.030		8,299.7	Cts/S	8.8141	0.10620				
Y029A		154,010	Cts/S	133.21	0.086496				
Y029R		832.09	Cts/S	10.158	1.2208				

ICB/CCB

Acquire Date: 1/31/2019 5:29:27PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280	**F**	**0.002604**	**ppm**	**0.001990**	**76.41**	**.0000**	**Abs**	**Fail High**	**.0020**
Al3961	**F**	**1.070**	**ppm**	**0.2922**	**27.30**	**.0000**	**Abs**	**Fail High**	**.2000**
As1890		-0.0005030	ppm	0.002527	502.7	.0000	Abs	Pass	
Au2427		0.3406	ppm	0.01315	3.859				
B_2089		0.001714	ppm	0.0002200	12.85	.0000	Abs	Pass	
Ba4934		0.0009980	ppm	0.002261	226.5	.0000	Abs	Pass	
Be3130		0.001728	ppm	0.0007200	41.66	.0000	Abs	Pass	
Ca3179	**F**	**1.051**	**ppm**	**0.3151**	**29.99**	**.0000**	**Abs**	**Fail High**	**.2000**
Cd2144		0.0007160	ppm	0.0002680	37.38	.0000	Abs	Pass	
Co2286		0.0009760	ppm	0.0003860	39.57	.0000	Abs	Pass	
Cr2677		0.0003880	ppm	0.0001600	41.28	.0000	Abs	Pass	
Cu327.39		0.0002550	ppm	0.0004190	164.5	.0000	Abs	Pass	
Fe2395	**F**	**0.9904**	**ppm**	**0.3631**	**36.67**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		-0.04529	ppm	0.1164	257.0	.0000	Abs	Pass	
Mg2790	**F**	**1.267**	**ppm**	**0.4991**	**39.40**	**.0000**	**Abs**	**Fail High**	**.2000**
Mn2576		-0.001259	ppm	0.00009700	7.676	.0000	Abs	Pass	
Mo2020		0.0006970	ppm	0.0005580	80.00	.0000	Abs	Pass	
Na5895		0.02289	ppm	0.03576	156.2	.0000	Abs	Pass	
Ni2316		0.001918	ppm	0.0002680	13.99	.0000	Abs	Pass	
Pb2203		0.0008070	ppm	0.001133	140.5	.0000	Abs	Pass	
Sb2068		0.00003600	ppm	0.001554	4,288	.0000	Abs	Pass	
Se1960		0.001770	ppm	0.0001510	8.503	.0000	Abs	Pass	
Si2124		-0.002457	ppm	0.002662	108.3				
Sn1899		0.0006410	ppm	0.0001740	27.23	.0000	Abs	Pass	
Sr4077		0.0009230	ppm	0.00008000	8.708	.0000	Abs	Pass	
Ti3361		0.005013	ppm	0.0008380	16.72	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 5:29:27PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Tl1908		0.001570	ppm	0.006609	420.9	.0000	Abs	Pass	
V2924		0.0001480	ppm	0.0004280	289.2	.0000	Abs	Pass	
Zn2062		0.0004090	ppm	0.0002290	56.11	.0000	Abs	Pass	
Y371.030		8,577.1	Cts/S	4.4298	0.051646				
Y029A		156,820	Cts/S	621.86	0.39655				
Y029R		815.10	Cts/S	6.5407	0.80245				

CRI

Acquire Date: 1/31/2019 5:34:19PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.01239	ppm	0.001302	10.51	.0100	Abs	Pass	
Al3961		0.4937	ppm	0.09687	19.62	.4000	Abs	Pass	
As1890		0.01144	ppm	0.0009470	8.281	.0100	Abs	Pass	
Au2427		2.736	ppm	0.1595	5.831				
B_2089	**F**	**0.1578**	**ppm**	**0.0003410**	**0.2164**	**.1000**	**Abs**	**Fail High**	**.1500**
Ba4934		0.01135	ppm	0.0004400	3.876	.0100	Abs	Pass	
Be3130		0.004078	ppm	0.0006280	15.39	.0040	Abs	Pass	
Ca3179		0.4907	ppm	0.1154	23.52	.4000	Abs	Pass	
Cd2144		0.004289	ppm	0.00006500	1.507	.0040	Abs	Pass	
Co2286		0.004553	ppm	0.0004970	10.91	.0040	Abs	Pass	
Cr2677		0.02018	ppm	0.0004010	1.985	.0200	Abs	Pass	
Cu327.39		0.04098	ppm	0.0009900	2.416	.0400	Abs	Pass	
Fe2395		0.5696	ppm	0.1570	27.56	.6000	Abs	Pass	
K7694		1.704	ppm	0.01130	0.6631	2.000	Abs	Pass	
Mg2790		0.5820	ppm	0.04977	8.553	.4000	Abs	Pass	
Mn2576		0.03897	ppm	0.0003000	0.7706	.0400	Abs	Pass	
Mo2020		0.02038	ppm	0.0002140	1.050	.0200	Abs	Pass	
Na5895		0.8282	ppm	0.06525	7.879	.4000	Abs	Pass	
Ni2316		0.02048	ppm	0.0003090	1.507	.0200	Abs	Pass	
Pb2203		0.01058	ppm	0.0007260	6.857	.0100	Abs	Pass	
Sb2068		0.01841	ppm	0.0008420	4.576	.0200	Abs	Pass	
Se1960		0.03810	ppm	0.002258	5.926	.0400	Abs	Pass	
Si2124		1.085	ppm	0.03441	3.171				
Sn1899		0.01969	ppm	0.0002420	1.230	.0200	Abs	Pass	
Sr4077		0.009078	ppm	0.0005490	6.046	.0100	Abs	Pass	
Ti3361		0.02042	ppm	0.01018	49.83	.0200	Abs	Pass	
Tl1908		0.01798	ppm	0.0002750	1.528	.0200	Abs	Pass	
V2924		0.02059	ppm	0.001108	5.382	.0200	Abs	Pass	
Zn2062		0.03875	ppm	0.0001720	0.4427	.0400	Abs	Pass	
Y371.030		8,643.4	Cts/S	29.692	0.34352				
Y029A		160,500	Cts/S	467.08	0.29101				
Y029R		827.98	Cts/S	25.739	3.1086				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 5:39:09PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2565	ppm	0.002836	1.106	.2500	Rel(%)	Pass	
Al3961		15.61	ppm	0.1261	0.8081	15.00	Rel(%)	Pass	
As1890		0.5164	ppm	0.004642	0.8988	.5000	Rel(%)	Pass	
Au2427		84.20	ppm	1.925	2.286				
B_2089		0.5165	ppm	0.001492	0.2889	.5000	Rel(%)	Pass	
Ba4934		0.5074	ppm	0.002240	0.4415	.5000	Rel(%)	Pass	
Be3130		0.5227	ppm	0.001714	0.3279	.5000	Rel(%)	Pass	
Ca3179	**W**	**15.85**	**ppm**	**0.05538**	**0.3494**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Cd2144		0.5183	ppm	0.001377	0.2657	.5000	Rel(%)	Pass	
Co2286		0.5209	ppm	0.001575	0.3024	.5000	Rel(%)	Pass	
Cr2677		0.5208	ppm	0.003496	0.6713	.5000	Rel(%)	Pass	
Cu327.39		0.5163	ppm	0.002876	0.5570	.5000	Rel(%)	Pass	
Fe2395	**W**	**15.81**	**ppm**	**0.05545**	**0.3508**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
K7694		15.20	ppm	0.1790	1.178	15.00	Rel(%)	Pass	
Mg2790	**W**	**16.00**	**ppm**	**0.8879**	**5.550**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mn2576		0.5093	ppm	0.002064	0.4053	.5000	Rel(%)	Pass	
Mo2020		0.5158	ppm	0.0004420	0.08572	.5000	Rel(%)	Pass	
Na5895		14.76	ppm	0.1911	1.295	15.00	Rel(%)	Pass	
Ni2316		0.5202	ppm	0.001512	0.2906	.5000	Rel(%)	Pass	
Pb2203		0.5214	ppm	0.002727	0.5231	.5000	Rel(%)	Pass	
Sb2068		0.5176	ppm	0.0007730	0.1494	.5000	Rel(%)	Pass	
Se1960		0.5177	ppm	0.004912	0.9488	.5000	Rel(%)	Pass	
Si2124		0.5278	ppm	0.001369	0.2595				
Sn1899		0.5160	ppm	0.0006150	0.1191	.5000	Rel(%)	Pass	
Sr4077		0.5127	ppm	0.0004060	0.07920	.5000	Rel(%)	Pass	
Ti3361		0.5148	ppm	0.007301	1.418	.5000	Rel(%)	Pass	
Tl1908	**W**	**0.5287**	**ppm**	**0.001103**	**0.2087**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.5163	ppm	0.002399	0.4646	.5000	Rel(%)	Pass	
Zn2062		0.5205	ppm	0.0008670	0.1667	.5000	Rel(%)	Pass	
Y371.030		8,320.1	Cts/S	15.294	0.18382				
Y029A		153,800	Cts/S	190.10	0.12360				
Y029R		825.54	Cts/S	4.8115	0.58283				

ICB/CCB

Acquire Date: 1/31/2019 5:43:53PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0008470	ppm	0.0007800	92.06	.0000	Abs	Pass	
Al3961		0.05042	ppm	0.1039	206.0	.0000	Abs	Pass	
As1890		0.0006040	ppm	0.0006550	108.4	.0000	Abs	Pass	
Au2427		0.9361	ppm	0.3050	32.58				
B_2089		0.001042	ppm	0.00009600	9.164	.0000	Abs	Pass	
Ba4934		0.001232	ppm	0.002685	217.9	.0000	Abs	Pass	
Be3130		0.0001640	ppm	0.0004880	297.8	.0000	Abs	Pass	
Ca3179		0.01305	ppm	0.01007	77.15	.0000	Abs	Pass	
Cd2144		0.0007100	ppm	0.0001350	18.94	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 5:43:53PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Co2286		0.0007720	ppm	0.0001970	25.48	.0000	Abs	Pass	
Cr2677		0.0008030	ppm	0.0003780	47.01	.0000	Abs	Pass	
Cu327.39		0.0005090	ppm	0.001080	212.3	.0000	Abs	Pass	
Fe2395		-0.08224	ppm	0.0002120	0.2576	.0000	Abs	Pass	
K7694		-0.1358	ppm	0.08497	62.55	.0000	Abs	Pass	
Mg2790		0.1952	ppm	0.2502	128.2	.0000	Abs	Pass	
Mn2576		-0.001131	ppm	0.00004200	3.735	.0000	Abs	Pass	
Mo2020		0.0005390	ppm	0.0001370	25.44	.0000	Abs	Pass	
Na5895		-0.08624	ppm	0.05352	62.06	.0000	Abs	Pass	
Ni2316		0.0009120	ppm	0.0002300	25.21	.0000	Abs	Pass	
Pb2203		0.001752	ppm	0.0006210	35.45	.0000	Abs	Pass	
Sb2068		-0.002924	ppm	0.001040	35.58	.0000	Abs	Pass	
Se1960		0.001192	ppm	0.001569	131.6	.0000	Abs	Pass	
Si2124		-0.001298	ppm	0.001767	136.1				
Sn1899		0.0008840	ppm	0.0002560	29.03	.0000	Abs	Pass	
Sr4077		-0.0005250	ppm	0.0008670	165.1	.0000	Abs	Pass	
Ti3361	**F**	**-0.01228**	**ppm**	**0.009754**	**79.42**	**.0000**	**Abs**	**Fail Low**	**-.0100**
Tl1908		0.0004330	ppm	0.002671	617.2	.0000	Abs	Pass	
V2924		0.0009500	ppm	0.0002790	29.34	.0000	Abs	Pass	
Zn2062		0.0003490	ppm	0.00009300	26.54	.0000	Abs	Pass	
Y371.030		8,443.5	Cts/S	37.461	0.44367				
Y029A		156,360	Cts/S	420.98	0.26923				
Y029R		820.51	Cts/S	1.4319	0.17451				

mb 720-259153/1-a

Acquire Date: 1/31/2019 5:54:27PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001064	ppm	0.001095	102.9
Al3961		0.1403	ppm	0.01396	9.948
As1890		-0.001443	ppm	0.0007370	51.07
Au2427		0.06752	ppm	0.08301	122.9
B_2089		0.0009820	ppm	0.0006680	68.04
Ba4934		-0.0002110	ppm	0.001869	885.3
Be3130		-0.0001850	ppm	0.0008280	447.7
Ca3179		0.1092	ppm	0.1225	112.2
Cd2144		0.00003100	ppm	0.0001860	591.2
Co2286		0.00007300	ppm	0.0002480	341.6
Cr2677		0.001044	ppm	0.0002380	22.82
Cu327.39		0.0009520	ppm	0.001036	108.8
Fe2395		0.06184	ppm	0.1222	197.6
K7694		-0.2039	ppm	0.003282	1.609
Mg2790		0.2398	ppm	0.05708	23.80
Mn2576		-0.0004590	ppm	0.00009200	20.02
Mo2020		-0.0001300	ppm	0.00008500	65.40

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

mb 720-259153/1-a

Acquire Date: 1/31/2019 5:54:27PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Na5895		-0.05875	ppm	0.04108	69.91
Ni2316		0.001893	ppm	0.000004000	0.1895
Pb2203		0.0007830	ppm	0.0008880	113.5
Sb2068		0.0007410	ppm	0.0005620	75.88
Se1960		0.004352	ppm	0.003267	75.08
Si2124		0.04182	ppm	0.0006420	1.534
Sn1899		0.01149	ppm	0.0003580	3.112
Sr4077		0.0005690	ppm	0.001152	202.3
Ti3361		0.005075	ppm	0.005227	103.0
Tl1908		-0.006663	ppm	0.001567	23.52
V2924		0.0004500	ppm	0.0008920	198.1
Zn2062		0.001593	ppm	0.0002920	18.34
Y371.030		8,067.6	Cts/S	62.038	0.76898
Y029A		151,050	Cts/S	585.97	0.38792
Y029R		789.26	Cts/S	9.8111	1.2431

lcs 720-259153/2-a

Acquire Date: 1/31/2019 5:59:19PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.4850	ppm	0.0006070	0.1251
Al3961		10.21	ppm	0.06574	0.6438
As1890		0.9915	ppm	0.005596	0.5644
Au2427		-0.01289	ppm	0.4923	3,820
B_2089		1.035	ppm	0.001476	0.1426
Ba4934		1.009	ppm	0.01293	1.282
Be3130		1.048	ppm	0.006235	0.5949
Ca3179		10.49	ppm	0.03492	0.3330
Cd2144		1.072	ppm	0.001122	0.1046
Co2286		1.098	ppm	0.0003240	0.02946
Cr2677		1.031	ppm	0.001012	0.09821
Cu327.39		1.024	ppm	0.0007190	0.07019
Fe2395		10.47	ppm	0.1415	1.351
K7694		9.761	ppm	0.06054	0.6202
Mg2790		9.821	ppm	0.2345	2.388
Mn2576		1.003	ppm	0.0003180	0.03170
Mo2020		1.021	ppm	0.002127	0.2082
Na5895		9.707	ppm	0.05708	0.5881
Ni2316		1.068	ppm	0.001834	0.1717
Pb2203		1.074	ppm	0.0005610	0.05223
Sb2068		1.003	ppm	0.002107	0.2101
Se1960		1.020	ppm	0.002252	0.2207
Si2124		0.9238	ppm	0.01200	1.299
Sn1899		1.053	ppm	0.002144	0.2037
Sr4077		1.039	ppm	0.005132	0.4941

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

lcs 720-259153/2-a

Acquire Date: 1/31/2019 5:59:19PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ti3361		1.092	ppm	0.01834	1.680
Tl1908		1.059	ppm	0.01161	1.096
V2924		1.009	ppm	0.001685	0.1671
Zn2062		1.054	ppm	0.001748	0.1659
Y371.030		7,921.5	Cts/S	10.541	0.13307
Y029A		146,070	Cts/S	43.558	0.029820
Y029R		793.88	Cts/S	9.3583	1.1788

720-90956-a-9-f ms

Acquire Date: 1/31/2019 6:04:00PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1638	ppm	0.0007870	0.4803
Al3961		110.7	ppm	0.7631	0.6893
As1890		0.6017	ppm	0.001477	0.2455
Au2427		16.16	ppm	0.5970	3.695
B_2089		0.3010	ppm	0.003668	1.219
Ba4934		1.834	ppm	0.005020	0.2737
Be3130		0.3473	ppm	0.003548	1.022
Ca3179		66.43	ppm	0.4507	0.6785
Cd2144		0.3332	ppm	0.003948	1.185
Co2286		0.4151	ppm	0.004397	1.059
Cr2677		0.7034	ppm	0.001548	0.2201
Cu327.39		2.374	ppm	0.0003420	0.01439
Fe2395		400.0	ppm	1.903	0.4757
K7694		12.81	ppm	0.1197	0.9346
Mg2790		37.23	ppm	0.2424	0.6511
Mn2576		3.877	ppm	0.01175	0.3032
Mo2020		0.2865	ppm	0.002528	0.8825
Na5895		5.555	ppm	0.01351	0.2431
Ni2316		0.6338	ppm	0.009195	1.451
Pb2203		1.122	ppm	0.01102	0.9818
Sb2068		0.1008	ppm	0.00005600	0.05518
Se1960		0.3059	ppm	0.00003600	0.01179
Si2124		5.551	ppm	0.06021	1.085
Sn1899		0.4364	ppm	0.005491	1.258
Sr4077		0.7446	ppm	0.0006730	0.09038
Ti3361		5.513	ppm	0.03597	0.6524
Tl1908		0.2892	ppm	0.004070	1.407
V2924		0.6875	ppm	0.0003170	0.04617
Zn2062		2.900	ppm	0.03901	1.345
Y371.030		8,296.6	Cts/S	36.546	0.44049
Y029A		150,840	Cts/S	454.65	0.30141
Y029R		836.64	Cts/S	1.8418	0.22015

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-9-g msd

Acquire Date: 1/31/2019 6:08:46PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1617	ppm	0.0002440	0.1508
Al3961		104.3	ppm	0.9136	0.8758
As1890		0.5105	ppm	0.002807	0.5498
Au2427		15.61	ppm	0.6037	3.867
B_2089		0.2952	ppm	0.002518	0.8531
Ba4934		1.886	ppm	0.01143	0.6060
Be3130		0.3244	ppm	0.003536	1.090
Ca3179		76.54	ppm	0.1150	0.1503
Cd2144		0.3230	ppm	0.002846	0.8810
Co2286		0.4022	ppm	0.003142	0.7812
Cr2677		0.7134	ppm	0.002298	0.3221
Cu327.39		2.719	ppm	0.01521	0.5595
Fe2395		369.7	ppm	0.7151	0.1934
K7694		11.89	ppm	0.1770	1.489
Mg2790		38.85	ppm	0.09606	0.2473
Mn2576		4.017	ppm	0.04001	0.9959
Mo2020		0.2764	ppm	0.001755	0.6350
Na5895		5.640	ppm	0.01917	0.3399
Ni2316		0.6700	ppm	0.006382	0.9525
Pb2203		1.317	ppm	0.009229	0.7009
Sb2068		0.08619	ppm	0.002700	3.132
Se1960		0.7515	ppm	0.01180	1.570
Si2124		6.357	ppm	0.01261	0.1984
Sn1899		0.4355	ppm	0.005187	1.191
Sr4077		0.7925	ppm	0.003916	0.4941
Ti3361		5.959	ppm	0.03156	0.5296
Tl1908		0.2760	ppm	0.002148	0.7781
V2924		0.6698	ppm	0.002051	0.3062
Zn2062		3.172	ppm	0.03000	0.9457
Y371.030		8,146.0	Cts/S	44.272	0.54348
Y029A		151,350	Cts/S	244.65	0.16164
Y029R		835.67	Cts/S	2.9151	0.34883

720-90956-a-9-h pds

Acquire Date: 1/31/2019 6:13:31PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.6008	ppm	0.003236	0.5386
Al3961		100.8	ppm	0.5676	0.5629
As1890		1.486	ppm	0.01673	1.126
Au2427		17.37	ppm	0.3480	2.004
B_2089		1.224	ppm	0.01415	1.156
Ba4934		2.684	ppm	0.008821	0.3286
Be3130		1.276	ppm	0.01184	0.9276

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-9-h pds

Acquire Date: 1/31/2019 6:13:31PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		79.28	ppm	0.02525	0.03184
Cd2144		1.237	ppm	0.01396	1.129
Co2286		1.306	ppm	0.01476	1.131
Cr2677		1.908	ppm	0.004830	0.2532
Cu327.39		3.956	ppm	0.005392	0.1363
Fe2395		399.4	ppm	0.6298	0.1577
K7694		22.26	ppm	0.1323	0.5943
Mg2790		48.83	ppm	0.04309	0.08825
Mn2576		4.382	ppm	0.01000	0.2282
Mo2020		1.194	ppm	0.008888	0.7446
Na5895		15.25	ppm	0.02465	0.1616
Ni2316		1.604	ppm	0.01882	1.173
Pb2203		2.295	ppm	0.02422	1.055
Sb2068		1.195	ppm	0.008981	0.7515
Se1960		1.263	ppm	0.01453	1.150
Si2124		6.799	ppm	0.01490	0.2192
Sn1899		1.376	ppm	0.01881	1.367
Sr4077		1.682	ppm	0.007593	0.4515
Ti3361		6.162	ppm	0.03975	0.6450
Tl1908		1.203	ppm	0.01786	1.484
V2924		1.541	ppm	0.0009170	0.05950
Zn2062		3.974	ppm	0.04818	1.212
Y371.030		7,902.6	Cts/S	27.484	0.34778
Y029A		146,200	Cts/S	502.60	0.34378
Y029R		823.67	Cts/S	3.4390	0.41752

720-90956-a-9-h sd

Acquire Date: 1/31/2019 6:18:16PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.004414	ppm	0.002861	64.80
Al3961		15.86	ppm	0.07057	0.4449
As1890		0.06114	ppm	0.001803	2.949
Au2427		2.755	ppm	0.1163	4.221
B_2089		0.007457	ppm	0.0002210	2.967
Ba4934		0.2628	ppm	0.007145	2.718
Be3130		0.002492	ppm	0.0004620	18.55
Ca3179		12.17	ppm	0.001405	0.01154
Cd2144		0.005326	ppm	0.0007850	14.75
Co2286		0.01836	ppm	0.001131	6.160
Cr2677		0.1377	ppm	0.003155	2.292
Cu327.39		0.5283	ppm	0.005555	1.052
Fe2395		71.86	ppm	0.3726	0.5185
K7694		1.496	ppm	0.05260	3.516

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-9-h sd

Acquire Date: 1/31/2019 6:18:16PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mg2790		6.791	ppm	0.04911	0.7232
Mn2576		0.6390	ppm	0.008950	1.401
Mo2020		0.005668	ppm	0.0009750	17.19
Na5895		0.4735	ppm	0.01992	4.208
Ni2316		0.07691	ppm	0.003409	4.433
Pb2203		0.2096	ppm	0.007756	3.700
Sb2068		0.004961	ppm	0.001667	33.60
Se1960		0.01625	ppm	0.001130	6.955
Si2124		1.048	ppm	0.03138	2.993
Sn1899		0.03330	ppm	0.002451	7.360
Sr4077		0.07660	ppm	0.0002670	0.3488
Ti3361		0.8247	ppm	0.002877	0.3488
Tl1908		0.008867	ppm	0.004249	47.92
V2924		0.06771	ppm	0.003324	4.909
Zn2062		0.5098	ppm	0.02265	4.443
Y371.030		8,488.9	Cts/S	199.27	2.3475
Y029A		154,820	Cts/S	544.07	0.35143
Y029R		826.25	Cts/S	10.748	1.3008

720-90956-a-9-h

Acquire Date: 1/31/2019 6:23:04PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.009958	ppm	0.0002420	2.432
Al3961		69.24	ppm	0.5326	0.7692
As1890		0.2683	ppm	0.006676	2.489
Au2427		13.62	ppm	0.2271	1.667
B_2089		0.02734	ppm	0.003959	14.48
Ba4934		1.114	ppm	0.01327	1.191
Be3130		0.002177	ppm	0.0002590	11.90
Ca3179		55.32	ppm	0.3060	0.5530
Cd2144		0.01852	ppm	0.002058	11.11
Co2286		0.08456	ppm	0.01409	16.67
Cr2677		0.5849	ppm	0.001323	0.2262
Cu327.39		2.253	ppm	0.009203	0.4085
Fe2395		328.1	ppm	2.734	0.8332
K7694		7.620	ppm	0.05013	0.6579
Mg2790		28.13	ppm	0.02038	0.07245
Mn2576		2.663	ppm	0.0009420	0.03537
Mo2020		0.01778	ppm	0.0001170	0.6555
Na5895		2.381	ppm	0.06830	2.869
Ni2316		0.3719	ppm	0.05423	14.58
Pb2203		1.034	ppm	0.1643	15.89
Sb2068		0.02279	ppm	0.001240	5.442
Se1960		0.04481	ppm	0.004247	9.478

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-9-h

Acquire Date: 1/31/2019 6:23:04PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Si2124		5.136	ppm	0.01720	0.3349
Sn1899		0.1588	ppm	0.02389	15.04
Sr4077		0.3371	ppm	0.002522	0.7482
Ti3361		3.752	ppm	0.01451	0.3866
Tl1908		0.003504	ppm	0.001360	38.80
V2924		0.2770	ppm	0.0002100	0.07564
Zn2062		2.588	ppm	0.4172	16.12
Y371.030		7,476.6	Cts/S	1,045.2	13.980
Y029A		148,370	Cts/S	907.23	0.61148
Y029R		784.35	Cts/S	11.137	1.4199

720-90956-a-8-h

Acquire Date: 1/31/2019 6:27:46PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.002959	ppm	0.00001900	0.6308
Al3961		120.0	ppm	0.5521	0.4602
As1890		0.07948	ppm	0.001265	1.591
Au2427		9.204	ppm	0.8135	8.839
B_2089		0.02850	ppm	0.001391	4.882
Ba4934		1.483	ppm	0.004512	0.3044
Be3130		0.004329	ppm	0.0001970	4.550
Ca3179		75.14	ppm	1.762	2.346
Cd2144		0.002997	ppm	0.0002620	8.732
Co2286		0.09209	ppm	0.0004260	0.4625
Cr2677		0.2511	ppm	0.0004250	0.1691
Cu327.39		0.3005	ppm	0.001868	0.6217
Fe2395		212.5	ppm	6.411	3.017
K7694		15.54	ppm	0.3703	2.384
Mg2790		46.77	ppm	0.6591	1.409
Mn2576		4.278	ppm	0.03046	0.7121
Mo2020		0.004176	ppm	0.0007670	18.37
Na5895		2.037	ppm	0.03558	1.747
Ni2316		0.2793	ppm	0.002663	0.9534
Pb2203		0.1143	ppm	0.000006000	0.005606
Sb2068		0.003090	ppm	0.001311	42.44
Se1960		0.001988	ppm	0.002025	101.9
Si2124		1.733	ppm	0.06618	3.819
Sn1899		0.009557	ppm	0.00003100	0.3281
Sr4077		0.4860	ppm	0.001229	0.2529
Ti3361		0.8804	ppm	0.009631	1.094
Tl1908		-0.00008600	ppm	0.007649	8,860
V2924		0.3737	ppm	0.0002140	0.05725
Zn2062		0.6389	ppm	0.004245	0.6644

720-90956-a-8-h

Acquire Date: 1/31/2019 6:27:46PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Y371.030		8,321.3	Cts/S	25.951	0.31186
Y029A		156,170	Cts/S	516.47	0.33072
Y029R		828.09	Cts/S	25.085	3.0292

720-90956-a-10-b

Acquire Date: 1/31/2019 6:32:34PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.003854	ppm	0.0004360	11.32
Al3961		134.8	ppm	1.035	0.7681
As1890		0.1030	ppm	0.005809	5.643
Au2427		13.26	ppm	0.1829	1.380
B_2089		0.02926	ppm	0.001227	4.193
Ba4934		1.407	ppm	0.01206	0.8570
Be3130		0.003649	ppm	0.0009940	27.23
Ca3179		69.87	ppm	0.5836	0.8353
Cd2144		0.008097	ppm	0.00007400	0.9177
Co2286		0.1143	ppm	0.003195	2.796
Cr2677		0.5032	ppm	0.009352	1.858
Cu327.39		0.7969	ppm	0.01426	1.789
Fe2395		293.4	ppm	1.588	0.5412
K7694		10.10	ppm	0.06174	0.6112
Mg2790		62.30	ppm	0.2227	0.3575
Mn2576		4.473	ppm	0.1058	2.366
Mo2020		0.005947	ppm	0.00002200	0.3628
Na5895		2.263	ppm	0.005840	0.2581
Ni2316		0.4793	ppm	0.01192	2.487
Pb2203		0.2451	ppm	0.006041	2.464
Sb2068		0.01041	ppm	0.0001120	1.075
Se1960		0.01470	ppm	0.001253	8.526
Si2124		2.039	ppm	0.04901	2.403
Sn1899		0.03423	ppm	0.00003400	0.09921
Sr4077		0.3639	ppm	0.005404	1.485
Ti3361		4.362	ppm	0.04972	1.140
Tl1908		-0.003164	ppm	0.003635	114.9
V2924		0.4945	ppm	0.009440	1.909
Zn2062		1.305	ppm	0.03470	2.659
Y371.030		8,194.4	Cts/S	14.572	0.17783
Y029A		152,760	Cts/S	276.81	0.18121
Y029R		845.89	Cts/S	2.2097	0.26123

720-90956-a-11-b

Acquire Date: 1/31/2019 6:37:23PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01843	ppm	0.001445	7.843
Al3961		120.3	ppm	0.2703	0.2247
As1890		0.4108	ppm	0.004528	1.102
Au2427		17.57	ppm	0.4161	2.368
B_2089		0.01684	ppm	0.00003600	0.2134
Ba4934		1.193	ppm	0.01382	1.158
Be3130		0.0005440	ppm	0.0002960	54.32
Ca3179		29.32	ppm	0.3252	1.109
Cd2144		0.01761	ppm	0.0001820	1.031
Co2286		0.05699	ppm	0.00004200	0.07291
Cr2677		0.4755	ppm	0.002879	0.6055
Cu327.39		2.842	ppm	0.02482	0.8734
Fe2395		394.9	ppm	5.582	1.414
K7694		8.304	ppm	0.2201	2.650
Mg2790		41.82	ppm	0.2897	0.6928
Mn2576		1.345	ppm	0.01236	0.9189
Mo2020		0.01846	ppm	0.0003610	1.955
Na5895		3.744	ppm	0.04938	1.319
Ni2316		1.334	ppm	0.01307	0.9793
Pb2203		2.291	ppm	0.02390	1.043
Sb2068		0.02841	ppm	0.0007810	2.748
Se1960		0.1374	ppm	0.003049	2.220
Si2124		1.726	ppm	0.03388	1.963
Sn1899		0.1360	ppm	0.002363	1.738
Sr4077		0.2739	ppm	0.002583	0.9432
Ti3361		1.457	ppm	0.01330	0.9127
Tl1908		0.002404	ppm	0.002557	106.4
V2924		0.3997	ppm	0.002877	0.7197
Zn2062		3.120	ppm	0.02784	0.8924
Y371.030		8,311.5	Cts/S	19.121	0.23006
Y029A		151,140	Cts/S	1,595.4	1.0556
Y029R		829.51	Cts/S	11.998	1.4463

ICV/CCV

Acquire Date: 1/31/2019 6:42:07PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2545	ppm	0.0009420	0.3703	.2500	Rel(%)	Pass	
Al3961		15.61	ppm	0.03734	0.2392	15.00	Rel(%)	Pass	
As1890		0.5110	ppm	0.008565	1.676	.5000	Rel(%)	Pass	
Au2427		84.34	ppm	0.6947	0.8237				
B_2089		0.5069	ppm	0.02369	4.672	.5000	Rel(%)	Pass	
Ba4934		0.4958	ppm	0.002438	0.4917	.5000	Rel(%)	Pass	
Be3130	**W**	**0.5253**	**ppm**	**0.003022**	**0.5752**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ca3179	**W**	**16.11**	**ppm**	**0.2563**	**1.591**	**15.00**	**Rel(%)**	**Warn High**	**5.000**

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 6:42:07PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Cd2144		0.5072	ppm	0.02266	4.468	.5000	Rel(%)	Pass	
Co2286		0.5110	ppm	0.02365	4.627	.5000	Rel(%)	Pass	
Cr2677		0.5211	ppm	0.001664	0.3192	.5000	Rel(%)	Pass	
Cu327.39		0.5197	ppm	0.005465	1.052	.5000	Rel(%)	Pass	
Fe2395	**F**	**17.05**	**ppm**	**0.2524**	**1.480**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
K7694	**W**	**16.05**	**ppm**	**0.1091**	**0.6799**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mg2790		15.47	ppm	0.04332	0.2801	15.00	Rel(%)	Pass	
Mn2576		0.5087	ppm	0.003422	0.6726	.5000	Rel(%)	Pass	
Mo2020		0.5118	ppm	0.006060	1.184	.5000	Rel(%)	Pass	
Na5895		14.97	ppm	0.2084	1.392	15.00	Rel(%)	Pass	
Ni2316		0.5067	ppm	0.02245	4.431	.5000	Rel(%)	Pass	
Pb2203		0.5087	ppm	0.02033	3.996	.5000	Rel(%)	Pass	
Sb2068		0.5093	ppm	0.006768	1.329	.5000	Rel(%)	Pass	
Se1960		0.5068	ppm	0.01955	3.857	.5000	Rel(%)	Pass	
Si2124		0.5510	ppm	0.01236	2.243				
Sn1899		0.5011	ppm	0.02320	4.630	.5000	Rel(%)	Pass	
Sr4077		0.5085	ppm	0.0003090	0.06086	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.5303**	**ppm**	**0.006856**	**1.293**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Tl1908		0.5104	ppm	0.01474	2.888	.5000	Rel(%)	Pass	
V2924		0.5125	ppm	0.0002560	0.05002	.5000	Rel(%)	Pass	
Zn2062		0.5118	ppm	0.02352	4.595	.5000	Rel(%)	Pass	
Y371.030		8,463.1	Cts/S	285.13	3.3691				
Y029A		151,210	Cts/S	864.49	0.57173				
Y029R		799.86	Cts/S	12.696	1.5873				

ICB/CCB

Acquire Date: 1/31/2019 6:46:51PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0009720	ppm	0.0004080	42.03	.0000	Abs	Pass	
Al3961	**F**	**0.3419**	**ppm**	**0.2960**	**86.58**	**.0000**	**Abs**	**Fail High**	**.2000**
As1890		0.002436	ppm	0.0008420	34.58	.0000	Abs	Pass	
Au2427		0.7352	ppm	0.006622	0.9008				
B_2089		0.001534	ppm	0.001288	84.01	.0000	Abs	Pass	
Ba4934	**F**	**0.005273**	**ppm**	**0.001020**	**19.34**	**.0000**	**Abs**	**Fail High**	**.0050**
Be3130		0.001158	ppm	0.001241	107.2	.0000	Abs	Pass	
Ca3179		0.08860	ppm	0.09908	111.8	.0000	Abs	Pass	
Cd2144		0.0007850	ppm	0.00009400	12.04	.0000	Abs	Pass	
Co2286		0.001082	ppm	0.0001040	9.626	.0000	Abs	Pass	
Cr2677		0.0005570	ppm	0.0001450	26.01	.0000	Abs	Pass	
Cu327.39		0.0002470	ppm	0.002073	839.9	.0000	Abs	Pass	
Fe2395	**F**	**0.7744**	**ppm**	**0.6732**	**86.94**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		0.01033	ppm	0.2577	2,494	.0000	Abs	Pass	
Mg2790	**F**	**0.2065**	**ppm**	**0.4626**	**224.0**	**.0000**	**Abs**	**Fail High**	**.2000**
Mn2576		0.0008120	ppm	0.0004800	59.06	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 6:46:51PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Mo2020		0.0009230	ppm	0.0004580	49.66	.0000	Abs	Pass	
Na5895		-0.04522	ppm	0.008721	19.28	.0000	Abs	Pass	
Ni2316		0.002397	ppm	0.0003620	15.11	.0000	Abs	Pass	
Pb2203		0.002635	ppm	0.0004690	17.80	.0000	Abs	Pass	
Sb2068		-0.002774	ppm	0.001847	66.60	.0000	Abs	Pass	
Se1960		0.0008390	ppm	0.001493	177.9	.0000	Abs	Pass	
Si2124		-0.001916	ppm	0.002796	145.9				
Sn1899		0.0009350	ppm	0.0002180	23.32	.0000	Abs	Pass	
Sr4077		0.001521	ppm	0.001246	81.90	.0000	Abs	Pass	
Ti3361		-0.001692	ppm	0.006421	379.5	.0000	Abs	Pass	
Tl1908		0.001625	ppm	0.002360	145.3	.0000	Abs	Pass	
V2924		0.001005	ppm	0.0003280	32.60	.0000	Abs	Pass	
Zn2062		0.003793	ppm	0.001340	35.33	.0000	Abs	Pass	
Y371.030		8,407.3	Cts/S	3.2355	0.038484				
Y029A		157,990	Cts/S	1,256.5	0.79533				
Y029R		842.44	Cts/S	1.4319	0.16997				

720-90956-a-12-b

Acquire Date: 1/31/2019 6:51:45PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01809	ppm	0.0002480	1.368
Al3961		156.5	ppm	2.136	1.366
As1890		0.4078	ppm	0.003701	0.9076
Au2427		17.12	ppm	0.1989	1.162
B_2089		0.02250	ppm	0.001482	6.587
Ba4934		2.067	ppm	0.03658	1.769
Be3130		0.003427	ppm	0.0001490	4.339
Ca3179		81.04	ppm	0.8601	1.061
Cd2144		0.02551	ppm	0.0002980	1.168
Co2286		0.1787	ppm	0.001824	1.021
Cr2677		0.5508	ppm	0.005167	0.9381
Cu327.39		3.508	ppm	0.02616	0.7457
Fe2395		396.6	ppm	5.820	1.467
K7694		9.715	ppm	0.2384	2.454
Mg2790		68.02	ppm	0.6408	0.9420
Mn2576		4.802	ppm	0.03734	0.7776
Mo2020		0.01701	ppm	0.00006400	0.3735
Na5895		2.805	ppm	0.09099	3.244
Ni2316		0.5923	ppm	0.009410	1.589
Pb2203		1.412	ppm	0.01987	1.407
Sb2068		0.02753	ppm	0.0002850	1.035
Se1960		0.09724	ppm	0.001217	1.251
Si2124		1.651	ppm	0.05434	3.291
Sn1899		0.08268	ppm	0.001059	1.280
Sr4077		0.3742	ppm	0.007153	1.912

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-12-b

Acquire Date: 1/31/2019 6:51:45PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ti3361		3.588	ppm	0.06186	1.724
Tl1908		0.003580	ppm	0.001006	28.11
V2924		0.5236	ppm	0.003796	0.7250
Zn2062		4.653	ppm	0.06363	1.368
Y371.030		8,471.5	Cts/S	64.829	0.76526
Y029A		153,860	Cts/S	18.060	0.011738
Y029R		861.10	Cts/S	21.352	2.4796

720-90956-a-13-b

Acquire Date: 1/31/2019 6:56:33PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.01509	ppm	0.0001420	0.9380
Al3961		85.14	ppm	0.1061	0.1247
As1890		0.2328	ppm	0.001362	0.5850
Au2427		18.33	ppm	0.7535	4.111
B_2089		0.02305	ppm	0.001185	5.143
Ba4934		2.975	ppm	0.01178	0.3959
Be3130		0.001589	ppm	0.0002000	12.56
Ca3179		27.61	ppm	0.02211	0.08010
Cd2144		0.008352	ppm	0.0001090	1.306
Co2286		0.1253	ppm	0.0009560	0.7630
Cr2677		0.4854	ppm	0.0002640	0.05435
Cu327.39		1.153	ppm	0.003438	0.2982
Fe2395		419.2	ppm	2.191	0.5225
K7694		9.368	ppm	0.1356	1.448
Mg2790		22.06	ppm	0.3358	1.522
Mn2576		1.352	ppm	0.0002090	0.01546
Mo2020		0.04627	ppm	0.0005190	1.121
Na5895		1.241	ppm	0.03908	3.150
Ni2316		0.8017	ppm	0.006262	0.7811
Pb2203		0.7730	ppm	0.005259	0.6803
Sb2068		0.03391	ppm	0.0008840	2.607
Se1960		0.02584	ppm	0.0006510	2.519
Si2124		4.797	ppm	0.03800	0.7921
Sn1899		0.4174	ppm	0.005304	1.271
Sr4077		0.7591	ppm	0.005546	0.7306
Ti3361		3.389	ppm	0.01807	0.5333
Tl1908		-0.0004180	ppm	0.003254	778.0
V2924		0.3387	ppm	0.001075	0.3174
Zn2062		1.040	ppm	0.008789	0.8449
Y371.030		8,462.5	Cts/S	7.6284	0.090144
Y029A		151,680	Cts/S	653.91	0.43110
Y029R		828.49	Cts/S	0.42853	0.051724

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-14-b

Acquire Date: 1/31/2019 7:01:16PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.02513	ppm	0.001016	4.043
Al3961		19.04	ppm	0.08201	0.4307
As1890		0.2525	ppm	0.00005100	0.02038
Au2427		33.58	ppm	0.7354	2.190
B_2089		0.03315	ppm	0.0006250	1.886
Ba4934		1.220	ppm	0.003164	0.2594
Be3130		0.000004000	ppm	0.0008460	22,680
Ca3179		7.192	ppm	0.03756	0.5222
Cd2144		0.01288	ppm	0.0001410	1.098
Co2286		0.01951	ppm	0.0001900	0.9758
Cr2677		0.08155	ppm	0.0007650	0.9385
Cu327.39		1.304	ppm	0.001547	0.1186
Fe2395		744.7	ppm	0.9596	0.1289
K7694		9.037	ppm	0.1664	1.842
Mg2790		2.096	ppm	0.3141	14.99
Mn2576		0.2091	ppm	0.0006470	0.3096
Mo2020		0.04601	ppm	0.0001790	0.3896
Na5895		2.097	ppm	0.04149	1.978
Ni2316		0.05997	ppm	0.0008280	1.381
Pb2203		1.167	ppm	0.01604	1.374
Sb2068		0.05428	ppm	0.002823	5.201
Se1960		0.03954	ppm	0.005092	12.88
Si2124		1.238	ppm	0.01451	1.173
Sn1899		0.04051	ppm	0.0009000	2.222
Sr4077		0.06935	ppm	0.0004590	0.6624
Ti3361		1.864	ppm	0.02748	1.474
Tl1908		0.0003830	ppm	0.004531	1,184
V2924		0.1314	ppm	0.0001390	0.1060
Zn2062		0.8959	ppm	0.01104	1.232
Y371.030		7,912.2	Cts/S	1.7868	0.022583
Y029A		146,880	Cts/S	790.17	0.53798
Y029R		775.13	Cts/S	3.0986	0.39975

720-90956-a-15-b

Acquire Date: 1/31/2019 7:06:00PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001203	ppm	0.001411	117.3
Al3961		117.3	ppm	0.8657	0.7378
As1890		0.05814	ppm	0.001573	2.706
Au2427		7.974	ppm	0.04472	0.5608
B_2089		0.009553	ppm	0.0004150	4.340
Ba4934		1.200	ppm	0.004694	0.3911
Be3130		0.003840	ppm	0.0008750	22.80

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-15-b

Acquire Date: 1/31/2019 7:06:00PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		48.76	ppm	0.09812	0.2012
Cd2144		0.003651	ppm	0.0001020	2.790
Co2286		0.1120	ppm	0.001233	1.101
Cr2677		0.4019	ppm	0.0008280	0.2059
Cu327.39		0.4307	ppm	0.001681	0.3903
Fe2395		169.7	ppm	1.081	0.6368
K7694		11.99	ppm	0.005925	0.04943
Mg2790		48.69	ppm	1.112	2.284
Mn2576		2.886	ppm	0.009686	0.3356
Mo2020		0.001771	ppm	0.0003320	18.73
Na5895		1.382	ppm	0.03202	2.316
Ni2316		0.4337	ppm	0.005371	1.238
Pb2203		0.1611	ppm	0.005109	3.171
Sb2068		0.004580	ppm	0.003473	75.82
Se1960		0.009005	ppm	0.001613	17.91
Si2124		1.419	ppm	0.008094	0.5703
Sn1899		0.01510	ppm	0.0005240	3.466
Sr4077		0.2843	ppm	0.0008530	0.3001
Ti3361		1.549	ppm	0.02359	1.523
Tl1908		-0.002774	ppm	0.002094	75.49
V2924		0.2858	ppm	0.001080	0.3780
Zn2062		0.7143	ppm	0.01008	1.411
Y371.030		8,645.4	Cts/S	32.620	0.37732
Y029A		159,320	Cts/S	141.19	0.088617
Y029R		876.86	Cts/S	1.2905	0.14717

720-90956-a-16-b

Acquire Date: 1/31/2019 7:10:42PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.002793	ppm	0.002505	89.68
Al3961		141.4	ppm	0.04808	0.03401
As1890		0.08771	ppm	0.0007880	0.8981
Au2427		8.541	ppm	0.09327	1.092
B_2089		0.1253	ppm	0.006642	5.302
Ba4934		2.996	ppm	0.006411	0.2140
Be3130		0.003377	ppm	0.0004760	14.11
Ca3179		163.4	ppm	0.1060	0.06490
Cd2144		0.008863	ppm	0.0003480	3.928
Co2286		0.1462	ppm	0.006831	4.674
Cr2677		0.4490	ppm	0.001183	0.2635
Cu327.39		1.084	ppm	0.0008380	0.07731
Fe2395		225.7	ppm	0.1002	0.04439
K7694		9.955	ppm	0.1529	1.535

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90956-a-16-b

Acquire Date: 1/31/2019 7:10:42PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mg2790		58.65	ppm	0.05323	0.09077
Mn2576		6.023	ppm	0.05025	0.8342
Mo2020		0.005614	ppm	0.00004400	0.7895
Na5895		5.267	ppm	0.002479	0.04706
Ni2316		0.5668	ppm	0.02592	4.573
Pb2203		0.1707	ppm	0.007613	4.460
Sb2068		0.003390	ppm	0.002266	66.83
Se1960		0.001132	ppm	0.007241	639.7
Si2124		1.795	ppm	0.007828	0.4361
Sn1899		0.04207	ppm	0.001041	2.476
Sr4077		0.5751	ppm	0.004173	0.7258
Ti3361		2.647	ppm	0.009871	0.3729
Tl1908		-0.003433	ppm	0.0007820	22.79
V2924		0.4324	ppm	0.002045	0.4730
Zn2062		3.249	ppm	0.1487	4.576
Y371.030		8,236.1	Cts/S	330.64	4.0146
Y029A		153,420	Cts/S	601.69	0.39218
Y029R		850.01	Cts/S	2.6852	0.31590

720-90960-a-1-b

Acquire Date: 1/31/2019 7:15:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.003823	ppm	0.0006650	17.39
Al3961		126.7	ppm	0.07342	0.05797
As1890		0.1972	ppm	0.002986	1.514
Au2427		25.31	ppm	0.1313	0.5187
B_2089		0.02072	ppm	0.0004380	2.114
Ba4934		2.125	ppm	0.007303	0.3436
Be3130		0.005595	ppm	0.0008660	15.47
Ca3179		228.5	ppm	0.2085	0.09125
Cd2144		0.009654	ppm	0.00008100	0.8418
Co2286		0.1525	ppm	0.002440	1.600
Cr2677		6.116	ppm	0.05245	0.8575
Cu327.39		1.475	ppm	0.01130	0.7664
Fe2395		582.7	ppm	1.388	0.2382
K7694		6.655	ppm	0.2088	3.138
Mg2790		38.88	ppm	0.4944	1.272
Mn2576		7.019	ppm	0.04363	0.6216
Mo2020		0.02401	ppm	0.00005600	0.2332
Na5895		2.297	ppm	0.02229	0.9705
Ni2316		0.4506	ppm	0.006273	1.392
Pb2203		1.853	ppm	0.02505	1.352
Sb2068		0.09901	ppm	0.001347	1.360
Se1960		0.01535	ppm	0.002384	15.52

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-1-b

Acquire Date: 1/31/2019 7:15:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Si2124		2.348	ppm	0.03500	1.491
Sn1899		2.296	ppm	0.03513	1.530
Sr4077		0.5202	ppm	0.002952	0.5676
Ti3361		3.112	ppm	0.01218	0.3915
Tl1908		-0.004142	ppm	0.001731	41.78
V2924		0.4439	ppm	0.003030	0.6826
Zn2062		6.029	ppm	0.08471	1.405
Y371.030		8,071.4	Cts/S	6.1510	0.076207
Y029A		151,440	Cts/S	498.34	0.32907
Y029R		862.13	Cts/S	0.51567	0.059814

720-90960-a-2-b

Acquire Date: 1/31/2019 7:20:17PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001218	ppm	0.001272	104.4
Al3961		171.0	ppm	0.5028	0.2941
As1890		0.07072	ppm	0.001646	2.327
Au2427		12.83	ppm	0.1486	1.158
B_2089		0.001964	ppm	0.0005260	26.78
Ba4934		0.7426	ppm	0.008953	1.206
Be3130		0.002841	ppm	0.0004830	16.99
Ca3179		24.69	ppm	0.1675	0.6784
Cd2144		0.0006810	ppm	0.0001130	16.61
Co2286		0.06222	ppm	0.0009940	1.598
Cr2677		0.4979	ppm	0.002147	0.4311
Cu327.39		0.3429	ppm	0.002508	0.7315
Fe2395		280.1	ppm	3.927	1.402
K7694		3.962	ppm	0.09456	2.387
Mg2790		41.90	ppm	0.8563	2.044
Mn2576		2.704	ppm	0.001069	0.03952
Mo2020		0.0005930	ppm	0.00005800	9.722
Na5895		1.512	ppm	0.006331	0.4187
Ni2316		0.3425	ppm	0.004138	1.208
Pb2203		0.04524	ppm	0.001128	2.493
Sb2068		0.005823	ppm	0.0008410	14.44
Se1960		0.003858	ppm	0.001763	45.68
Si2124		5.004	ppm	0.1436	2.870
Sn1899		0.009412	ppm	0.0003610	3.833
Sr4077		0.1206	ppm	0.001950	1.616
Ti3361		1.961	ppm	0.01030	0.5250
Tl1908		-0.003504	ppm	0.004761	135.9
V2924		0.5311	ppm	0.00007100	0.01343
Zn2062		0.3412	ppm	0.005646	1.655

720-90960-a-2-b

Acquire Date: 1/31/2019 7:20:17PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Y371.030		8,526.4	Cts/S	3.2625	0.038263
Y029A		157,910	Cts/S	851.76	0.53940
Y029R		863.31	Cts/S	16.317	1.8901

720-90960-a-3-b

Acquire Date: 1/31/2019 7:25:00PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001845	ppm	0.0009320	50.50
Al3961		134.4	ppm	0.5874	0.4371
As1890		0.07777	ppm	0.001119	1.439
Au2427		8.263	ppm	0.1093	1.323
B_2089		0.005013	ppm	0.001684	33.60
Ba4934		1.211	ppm	0.006514	0.5378
Be3130		0.003805	ppm	0.0004920	12.93
Ca3179		16.12	ppm	0.1397	0.8670
Cd2144		0.001760	ppm	0.00003500	1.974
Co2286		0.1867	ppm	0.001391	0.7451
Cr2677		0.4295	ppm	0.004712	1.097
Cu327.39		0.2919	ppm	0.004025	1.379
Fe2395		270.2	ppm	1.301	0.4816
K7694		6.534	ppm	0.08297	1.270
Mg2790		42.48	ppm	0.2360	0.5556
Mn2576		12.22	ppm	0.1034	0.8462
Mo2020		0.001605	ppm	0.0004670	29.10
Na5895		2.374	ppm	0.06956	2.930
Ni2316		0.3996	ppm	0.002237	0.5598
Pb2203		0.05609	ppm	0.001941	3.460
Sb2068		0.01029	ppm	0.00004200	0.4037
Se1960		0.01040	ppm	0.002082	20.01
Si2124		3.230	ppm	0.03858	1.194
Sn1899		0.009843	ppm	0.0005040	5.117
Sr4077		0.1426	ppm	0.0001140	0.08016
Ti3361		3.261	ppm	0.01688	0.5177
Tl1908		-0.005339	ppm	0.0005980	11.20
V2924		0.5618	ppm	0.005711	1.017
Zn2062		0.7227	ppm	0.01018	1.408
Y371.030		8,587.6	Cts/S	28.485	0.33170
Y029A		155,550	Cts/S	443.37	0.28503
Y029R		850.31	Cts/S	0.54801	0.064448

720-90960-a-4-b

Acquire Date: 1/31/2019 7:29:49PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001929	ppm	0.0002270	11.76
Al3961		143.6	ppm	0.5642	0.3929
As1890		0.09774	ppm	0.0001540	0.1574
Au2427		10.86	ppm	0.03476	0.3201
B_2089		0.005251	ppm	0.001666	31.73
Ba4934		0.8169	ppm	0.005842	0.7151
Be3130		0.004123	ppm	0.00007000	1.693
Ca3179		33.83	ppm	0.1760	0.5201
Cd2144		0.001330	ppm	0.00007300	5.457
Co2286		0.08301	ppm	0.001157	1.394
Cr2677		0.4261	ppm	0.002223	0.5216
Cu327.39		0.2297	ppm	0.001788	0.7784
Fe2395		253.5	ppm	0.3652	0.1440
K7694		6.542	ppm	0.1402	2.143
Mg2790		42.84	ppm	0.1400	0.3268
Mn2576		3.537	ppm	0.01382	0.3907
Mo2020		0.001699	ppm	0.00009200	5.412
Na5895		0.7775	ppm	0.03808	4.898
Ni2316		0.2791	ppm	0.003524	1.263
Pb2203		0.3529	ppm	0.005009	1.420
Sb2068		0.009977	ppm	0.0007630	7.649
Se1960		0.007024	ppm	0.005131	73.04
Si2124		1.647	ppm	0.01408	0.8550
Sn1899		0.01501	ppm	0.001214	8.089
Sr4077		0.1590	ppm	0.001147	0.7215
Ti3361		2.443	ppm	0.01915	0.7840
Tl1908		-0.001077	ppm	0.004036	374.9
V2924		0.4362	ppm	0.001398	0.3204
Zn2062		0.5252	ppm	0.006947	1.323
Y371.030		8,429.8	Cts/S	57.041	0.67666
Y029A		156,490	Cts/S	800.52	0.51153
Y029R		850.75	Cts/S	0.53033	0.062337

720-90960-a-5-b

Acquire Date: 1/31/2019 7:34:32PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0005960	ppm	0.001574	264.2
Al3961		87.05	ppm	0.2992	0.3437
As1890		0.08975	ppm	0.001889	2.105
Au2427		9.657	ppm	0.7786	8.063
B_2089		0.002030	ppm	0.001252	61.68
Ba4934		0.4061	ppm	0.003847	0.9472
Be3130		0.001767	ppm	0.0001370	7.780
Ca3179		19.52	ppm	0.03903	0.2000

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-5-b

Acquire Date: 1/31/2019 7:34:32PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.0007210	ppm	0.0001210	16.78
Co2286		0.03049	ppm	0.0002420	0.7953
Cr2677		0.2349	ppm	0.00003200	0.01355
Cu327.39		0.3824	ppm	0.0002310	0.06034
Fe2395		207.8	ppm	0.3103	0.1493
K7694		3.050	ppm	0.2553	8.371
Mg2790		23.18	ppm	0.2422	1.045
Mn2576		1.006	ppm	0.001027	0.1020
Mo2020		0.001504	ppm	0.0003570	23.75
Na5895		0.3816	ppm	0.04458	11.68
Ni2316		0.1305	ppm	0.001492	1.143
Pb2203		0.06615	ppm	0.0007810	1.180
Sb2068		0.01207	ppm	0.006046	50.11
Se1960		0.003486	ppm	0.005157	147.9
Si2124		3.075	ppm	0.001617	0.05259
Sn1899		0.005202	ppm	0.00001900	0.3618
Sr4077		0.07558	ppm	0.0001720	0.2273
Ti3361		1.345	ppm	0.006644	0.4939
Tl1908		-0.002627	ppm	0.004688	178.4
V2924		0.3292	ppm	0.0003840	0.1167
Zn2062		0.1893	ppm	0.002058	1.087
Y371.030		8,244.2	Cts/S	37.949	0.46032
Y029A		152,310	Cts/S	463.87	0.30456
Y029R		805.38	Cts/S	0.88388	0.10975

ICV/CCV

Acquire Date: 1/31/2019 7:39:17PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2532	ppm	0.002282	0.9011	.2500	Rel(%)	Pass	
Al3961	**W**	**15.75**	**ppm**	**0.1179**	**0.7485**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
As1890		0.5204	ppm	0.003349	0.6435	.5000	Rel(%)	Pass	
Au2427		84.49	ppm	0.4402	0.5210				
B_2089		0.5247	ppm	0.002725	0.5192	.5000	Rel(%)	Pass	
Ba4934		0.4983	ppm	0.0009980	0.2004	.5000	Rel(%)	Pass	
Be3130	**W**	**0.5321**	**ppm**	**0.0008780**	**0.1649**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ca3179	**W**	**16.09**	**ppm**	**0.003189**	**0.01982**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Cd2144	**W**	**0.5269**	**ppm**	**0.0001650**	**0.03140**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Co2286	**W**	**0.5299**	**ppm**	**0.0004970**	**0.09372**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677	**W**	**0.5301**	**ppm**	**0.0008450**	**0.1594**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cu327.39		0.5215	ppm	0.0005120	0.09825	.5000	Rel(%)	Pass	
Fe2395	**F**	**17.12**	**ppm**	**0.2859**	**1.670**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
K7694	**W**	**15.84**	**ppm**	**0.07480**	**0.4722**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mg2790		15.57	ppm	0.001010	0.006487	15.00	Rel(%)	Pass	
Mn2576		0.5176	ppm	0.005229	1.010	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 7:39:17PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Mo2020		0.5195	ppm	0.003491	0.6720	.5000	Rel(%)	Pass	
Na5895		14.84	ppm	0.03077	0.2074	15.00	Rel(%)	Pass	
Ni2316		0.5230	ppm	0.0003290	0.06287	.5000	Rel(%)	Pass	
Pb2203	**W**	**0.5264**	**ppm**	**0.001441**	**0.2738**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Sb2068		0.5213	ppm	0.001159	0.2223	.5000	Rel(%)	Pass	
Se1960		0.5171	ppm	0.002771	0.5359	.5000	Rel(%)	Pass	
Si2124		0.5624	ppm	0.003416	0.6075				
Sn1899		0.5148	ppm	0.0002740	0.05332	.5000	Rel(%)	Pass	
Sr4077		0.5147	ppm	0.002433	0.4728	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.5342**	**ppm**	**0.02130**	**3.988**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Tl1908		0.5221	ppm	0.002779	0.5322	.5000	Rel(%)	Pass	
V2924		0.5189	ppm	0.0007580	0.1461	.5000	Rel(%)	Pass	
Zn2062	**W**	**0.5283**	**ppm**	**0.001010**	**0.1912**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Y371.030		8,334.5	Cts/S	61.000	0.73189				
Y029A		152,050	Cts/S	37.477	0.024648				
Y029R		805.08	Cts/S	3.0231	0.37551				

ICB/CCB

Acquire Date: 1/31/2019 7:44:01PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0004520	ppm	0.001898	419.9	.0000	Abs	Pass	
Al3961	**F**	**0.5672**	**ppm**	**0.1775**	**31.29**	**.0000**	**Abs**	**Fail High**	**.2000**
As1890		-0.001594	ppm	0.002502	157.0	.0000	Abs	Pass	
Au2427		0.5330	ppm	0.3564	66.88				
B_2089		0.0002390	ppm	0.00008000	33.55	.0000	Abs	Pass	
Ba4934		0.002952	ppm	0.002041	69.12	.0000	Abs	Pass	
Be3130		0.0003820	ppm	0.0005000	130.9	.0000	Abs	Pass	
Ca3179		0.1545	ppm	0.1061	68.68	.0000	Abs	Pass	
Cd2144		0.0005760	ppm	0.00009800	16.95	.0000	Abs	Pass	
Co2286		0.0008040	ppm	0.0003430	42.69	.0000	Abs	Pass	
Cr2677		0.001117	ppm	0.0001820	16.27	.0000	Abs	Pass	
Cu327.39		0.0002610	ppm	0.001029	394.3	.0000	Abs	Pass	
Fe2395	**F**	**1.041**	**ppm**	**0.6170**	**59.28**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		-0.2176	ppm	0.01668	7.663	.0000	Abs	Pass	
Mg2790		0.02203	ppm	0.02255	102.4	.0000	Abs	Pass	
Mn2576		0.005375	ppm	0.001161	21.59	.0000	Abs	Pass	
Mo2020		0.00006300	ppm	0.000009000	13.52	.0000	Abs	Pass	
Na5895		-0.02058	ppm	0.01417	68.88	.0000	Abs	Pass	
Ni2316		0.001823	ppm	0.0003050	16.71	.0000	Abs	Pass	
Pb2203		0.001119	ppm	0.0003640	32.57	.0000	Abs	Pass	
Sb2068		-0.003039	ppm	0.002112	69.51	.0000	Abs	Pass	
Se1960		0.001774	ppm	0.002656	149.8	.0000	Abs	Pass	
Si2124		0.00008700	ppm	0.001501	1,720				
Sn1899		0.00002000	ppm	0.0006440	3,278	.0000	Abs	Pass	
Sr4077		0.001207	ppm	0.0005800	48.04	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 7:44:01PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ti3361	F	0.01154	ppm	0.008105	70.26	.0000	Abs	Fail High	.0100
Tl1908		-0.003109	ppm	0.001442	46.37	.0000	Abs	Pass	
V2924		0.001554	ppm	0.0007000	45.02	.0000	Abs	Pass	
Zn2062		0.001493	ppm	0.0008410	56.30	.0000	Abs	Pass	
Y371.030		8,449.5	Cts/S	4.8448	0.057338				
Y029A		159,220	Cts/S	338.89	0.21285				
Y029R		817.68	Cts/S	6.7882	0.83019				

720-90960-a-6-b

Acquire Date: 1/31/2019 7:48:54PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.00004700	ppm	0.00009700	204.8
Al3961		94.03	ppm	0.7402	0.7872
As1890		0.03577	ppm	0.0005170	1.445
Au2427		8.153	ppm	0.2313	2.837
B_2089		0.007819	ppm	0.001548	19.80
Ba4934		0.3148	ppm	0.001195	0.3795
Be3130		0.0005950	ppm	0.001937	325.3
Ca3179		22.75	ppm	0.2358	1.037
Cd2144		0.0007890	ppm	0.0001700	21.60
Co2286		0.06158	ppm	0.001348	2.189
Cr2677		0.5124	ppm	0.001295	0.2528
Cu327.39		0.2143	ppm	0.0003120	0.1456
Fe2395		159.5	ppm	1.733	1.087
K7694		4.104	ppm	0.01857	0.4526
Mg2790		20.32	ppm	0.2044	1.006
Mn2576		2.100	ppm	0.01472	0.7009
Mo2020		-0.0001570	ppm	0.0006050	385.7
Na5895		1.125	ppm	0.04710	4.187
Ni2316		0.2726	ppm	0.005762	2.113
Pb2203		0.08012	ppm	0.003342	4.172
Sb2068		0.003336	ppm	0.002796	83.83
Se1960		0.002616	ppm	0.002628	100.5
Si2124		5.799	ppm	0.01368	0.2360
Sn1899		0.01038	ppm	0.0003180	3.060
Sr4077		0.1129	ppm	0.00008500	0.07522
Ti3361		5.574	ppm	0.01860	0.3337
Tl1908		0.0006610	ppm	0.0005300	80.15
V2924		0.3983	ppm	0.002858	0.7175
Zn2062		0.2264	ppm	0.004255	1.880
Y371.030		8,341.6	Cts/S	32.911	0.39455
Y029A		156,510	Cts/S	88.781	0.056724
Y029R		825.85	Cts/S	13.965	1.6910

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-7-b

Acquire Date: 1/31/2019 7:53:39PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.002973	ppm	0.000001000	0.02237
Al3961		146.2	ppm	1.276	0.8729
As1890		0.08144	ppm	0.004073	5.001
Au2427		10.26	ppm	0.1796	1.749
B_2089		0.01190	ppm	0.0005400	4.542
Ba4934		0.3782	ppm	0.002889	0.7638
Be3130		0.005394	ppm	0.0001670	3.100
Ca3179		18.61	ppm	0.01039	0.05583
Cd2144		0.001208	ppm	0.000009000	0.7428
Co2286		0.1058	ppm	0.001689	1.596
Cr2677		0.3295	ppm	0.003004	0.9117
Cu327.39		0.1859	ppm	0.003408	1.833
Fe2395		279.1	ppm	0.09931	0.03558
K7694		6.513	ppm	0.2197	3.373
Mg2790		78.32	ppm	1.022	1.305
Mn2576		8.053	ppm	0.07200	0.8941
Mo2020		0.02685	ppm	0.0002690	1.002
Na5895		0.1787	ppm	0.05562	31.12
Ni2316		0.2364	ppm	0.002965	1.254
Pb2203		0.03177	ppm	0.001372	4.318
Sb2068		0.007789	ppm	0.002898	37.20
Se1960		0.007984	ppm	0.003293	41.24
Si2124		5.076	ppm	0.01496	0.2946
Sn1899		0.01848	ppm	0.0005700	3.084
Sr4077		0.08987	ppm	0.0002330	0.2595
Ti3361		1.769	ppm	0.01218	0.6881
Tl1908		-0.006330	ppm	0.002205	34.83
V2924		0.3577	ppm	0.002733	0.7640
Zn2062		0.3955	ppm	0.005960	1.507
Y371.030		8,751.3	Cts/S	56.061	0.64060
Y029A		157,190	Cts/S	796.42	0.50665
Y029R		835.46	Cts/S	5.9220	0.70883

720-90960-a-8-b

Acquire Date: 1/31/2019 7:58:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0002300	ppm	0.0003530	153.7
Al3961		82.05	ppm	0.5534	0.6744
As1890		0.02617	ppm	0.001089	4.160
Au2427		8.515	ppm	0.2137	2.510
B_2089		0.01023	ppm	0.001192	11.65
Ba4934		0.5632	ppm	0.002230	0.3959
Be3130		0.0007190	ppm	0.0003540	49.23

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-8-b

Acquire Date: 1/31/2019 7:58:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		26.40	ppm	0.1181	0.4472
Cd2144		0.0009770	ppm	0.000009000	0.8891
Co2286		0.06170	ppm	0.0009500	1.540
Cr2677		0.4711	ppm	0.0002790	0.05931
Cu327.39		0.1438	ppm	0.001396	0.9711
Fe2395		178.4	ppm	0.1292	0.07242
K7694		4.177	ppm	0.07263	1.739
Mg2790		18.32	ppm	0.1480	0.8077
Mn2576		1.448	ppm	0.0001200	0.008261
Mo2020		0.001218	ppm	0.0002070	16.95
Na5895		0.9831	ppm	0.03752	3.817
Ni2316		0.2501	ppm	0.001729	0.6910
Pb2203		0.07882	ppm	0.001620	2.055
Sb2068		0.008399	ppm	0.001875	22.32
Se1960		0.003195	ppm	0.0007950	24.90
Si2124		6.621	ppm	0.02372	0.3582
Sn1899		0.007989	ppm	0.0001910	2.386
Sr4077		0.09758	ppm	0.0004740	0.4853
Ti3361		3.848	ppm	0.03486	0.9059
Tl1908		-0.002242	ppm	0.003592	160.2
V2924		0.4348	ppm	0.001262	0.2902
Zn2062		0.2466	ppm	0.002588	1.049
Y371.030		8,361.3	Cts/S	8.4761	0.10137
Y029A		153,610	Cts/S	148.02	0.096358
Y029R		827.91	Cts/S	3.2704	0.39501

720-90960-a-9-b

Acquire Date: 1/31/2019 8:03:13PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.002673	ppm	0.001043	39.02
Al3961		115.8	ppm	0.07453	0.06435
As1890		0.1399	ppm	0.004290	3.066
Au2427		8.087	ppm	0.02397	0.2964
B_2089		0.01934	ppm	0.0008400	4.344
Ba4934		0.9125	ppm	0.002678	0.2934
Be3130		-0.0005040	ppm	0.0007930	157.4
Ca3179		168.5	ppm	1.262	0.7493
Cd2144		0.007456	ppm	0.00001600	0.2113
Co2286		0.06379	ppm	0.0007350	1.152
Cr2677		2.819	ppm	0.02815	0.9984
Cu327.39		0.9559	ppm	0.01078	1.127
Fe2395		177.5	ppm	1.527	0.8602
K7694		5.617	ppm	0.01941	0.3455

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-9-b

Acquire Date: 1/31/2019 8:03:13PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mg2790		36.14	ppm	0.2097	0.5801
Mn2576		2.250	ppm	0.01547	0.6875
Mo2020		0.0003690	ppm	0.0001950	52.91
Na5895		8.286	ppm	0.1094	1.320
Ni2316		0.1963	ppm	0.002734	1.392
Pb2203		1.677	ppm	0.02005	1.195
Sb2068		0.02700	ppm	0.001457	5.397
Se1960		0.001814	ppm	0.002152	118.6
Si2124		4.197	ppm	0.08419	2.006
Sn1899		0.04641	ppm	0.001240	2.672
Sr4077		0.5128	ppm	0.0006860	0.1337
Ti3361		3.094	ppm	0.02122	0.6857
Tl1908		-0.0003860	ppm	0.003157	817.7
V2924		0.4289	ppm	0.004562	1.064
Zn2062		2.407	ppm	0.02607	1.083
Y371.030		7,893.3	Cts/S	9.2198	0.11681
Y029A		147,090	Cts/S	654.49	0.44495
Y029R		817.89	Cts/S	6.1406	0.75079

720-90960-a-10-b

Acquire Date: 1/31/2019 8:07:57PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001297	ppm	0.0005830	44.95
Al3961		102.8	ppm	1.151	1.120
As1890		0.008879	ppm	0.0004040	4.556
Au2427		9.084	ppm	0.7465	8.217
B_2089		0.04615	ppm	0.0004940	1.071
Ba4934		0.5664	ppm	0.002668	0.4711
Be3130		-0.001159	ppm	0.0008370	72.22
Ca3179		86.74	ppm	0.2021	0.2330
Cd2144		0.001262	ppm	0.00005900	4.708
Co2286		0.1154	ppm	0.003335	2.889
Cr2677		0.2266	ppm	0.001380	0.6090
Cu327.39		0.2250	ppm	0.0007120	0.3162
Fe2395		216.9	ppm	0.2630	0.1213
K7694		3.434	ppm	0.006700	0.1951
Mg2790		90.57	ppm	0.7937	0.8763
Mn2576		3.975	ppm	0.02866	0.7211
Mo2020		-0.0008350	ppm	0.0003010	36.04
Na5895		1.258	ppm	0.02145	1.705
Ni2316		0.1887	ppm	0.003400	1.802
Pb2203		0.05687	ppm	0.001894	3.331
Sb2068		0.004854	ppm	0.0001420	2.923
Se1960		0.006377	ppm	0.0001830	2.862

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-10-b

Acquire Date: 1/31/2019 8:07:57PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Si2124		2.529	ppm	0.005482	0.2167
Sn1899		0.01199	ppm	0.0001370	1.140
Sr4077		0.1470	ppm	0.0005330	0.3625
Ti3361		13.43	ppm	0.1369	1.019
Tl1908		-0.003260	ppm	0.002713	83.22
V2924		0.6365	ppm	0.001743	0.2738
Zn2062		0.3499	ppm	0.006120	1.749
Y371.030		8,374.1	Cts/S	160.06	1.9114
Y029A		153,970	Cts/S	35.447	0.023023
Y029R		835.78	Cts/S	3.4295	0.41033

720-90960-a-11-b

Acquire Date: 1/31/2019 8:12:47PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001141	ppm	0.001104	96.75
Al3961		56.70	ppm	0.4836	0.8530
As1890		0.02549	ppm	0.0002380	0.9352
Au2427		4.309	ppm	0.1206	2.799
B_2089		0.009979	ppm	0.001160	11.62
Ba4934		0.3550	ppm	0.003439	0.9687
Be3130		-0.0004600	ppm	0.0003510	76.19
Ca3179		48.63	ppm	0.01614	0.03319
Cd2144		0.001387	ppm	0.00001100	0.7885
Co2286		0.03982	ppm	0.0002630	0.6598
Cr2677		0.3549	ppm	0.00005300	0.01501
Cu327.39		0.1165	ppm	0.00001000	0.008332
Fe2395		104.3	ppm	0.5628	0.5397
K7694		2.931	ppm	0.1264	4.312
Mg2790		16.71	ppm	0.4978	2.979
Mn2576		1.399	ppm	0.004541	0.3246
Mo2020		0.0004720	ppm	0.000006000	1.288
Na5895		0.4715	ppm	0.007047	1.495
Ni2316		0.1838	ppm	0.001961	1.067
Pb2203		0.2812	ppm	0.003128	1.112
Sb2068		0.001274	ppm	0.001920	150.7
Se1960		0.001870	ppm	0.001410	75.42
Si2124		5.544	ppm	0.006385	0.1152
Sn1899		0.01015	ppm	0.0009710	9.568
Sr4077		0.1329	ppm	0.002398	1.804
Ti3361		3.150	ppm	0.01939	0.6155
Tl1908		-0.004796	ppm	0.004053	84.50
V2924		0.2574	ppm	0.001899	0.7377
Zn2062		0.5148	ppm	0.006474	1.258

720-90960-a-11-b

Acquire Date: 1/31/2019 8:12:47PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Y371.030		8,467.5	Cts/S	19.807	0.23391
Y029A		154,570	Cts/S	162.48	0.10512
Y029R		811.99	Cts/S	10.589	1.3041

mb 720-259252/1-a

Acquire Date: 1/31/2019 8:17:35PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0004080	ppm	0.0002900	71.08
Al3961		0.1299	ppm	0.05657	43.56
As1890		0.00004700	ppm	0.00009800	209.3
Au2427		-0.4542	ppm	0.2616	57.60
B_2089		0.0002770	ppm	0.0003670	132.1
Ba4934		0.0002550	ppm	0.003533	1,385
Be3130		0.0003590	ppm	0.0005930	165.3
Ca3179		0.05269	ppm	0.05305	100.7
Cd2144		-0.0001410	ppm	0.00005600	39.85
Co2286		0.0003490	ppm	0.0004720	135.2
Cr2677		0.002994	ppm	0.0006500	21.72
Cu327.39		0.001377	ppm	0.002258	164.0
Fe2395		0.1661	ppm	0.07561	45.51
K7694		-0.03112	ppm	0.3248	1,044
Mg2790		-0.1469	ppm	0.2310	157.2
Mn2576		0.02429	ppm	0.002993	12.32
Mo2020		-0.0001110	ppm	0.0004540	407.5
Na5895		-0.08985	ppm	0.03169	35.27
Ni2316		0.001803	ppm	0.0006040	33.49
Pb2203		0.0003280	ppm	0.0001010	30.79
Sb2068		0.000003000	ppm	0.0001140	3,830
Se1960		0.002128	ppm	0.003735	175.5
Si2124		0.03533	ppm	0.002958	8.373
Sn1899		0.01018	ppm	0.0003140	3.085
Sr4077		-0.0004020	ppm	0.0008320	206.8
Ti3361		0.0007230	ppm	0.01048	1,450
Tl1908		-0.007710	ppm	0.0003430	4.451
V2924		0.001364	ppm	0.0003130	22.95
Zn2062		0.002308	ppm	0.0005570	24.15
Y371.030		8,225.1	Cts/S	7.7062	0.093692
Y029A		157,190	Cts/S	3.1731	0.0020190
Y029R		795.78	Cts/S	1.9799	0.24880

lcs 720-259252/2-a

Acquire Date: 1/31/2019 8:22:27PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.4924	ppm	0.0007570	0.1537
Al3961		10.26	ppm	0.003930	0.03830
As1890		1.024	ppm	0.0008030	0.07839
Au2427		-0.1079	ppm	0.003998	3.705
B_2089		1.029	ppm	0.001805	0.1754
Ba4934		0.9774	ppm	0.008742	0.8944
Be3130		1.052	ppm	0.003757	0.3573
Ca3179		10.90	ppm	0.09350	0.8579
Cd2144		1.066	ppm	0.002453	0.2301
Co2286		1.085	ppm	0.003375	0.3110
Cr2677		1.057	ppm	0.001937	0.1833
Cu327.39		1.038	ppm	0.004674	0.4501
Fe2395		11.14	ppm	0.2414	2.167
K7694		10.19	ppm	0.1358	1.333
Mg2790		9.947	ppm	0.0007760	0.007797
Mn2576		1.018	ppm	0.003627	0.3562
Mo2020		1.044	ppm	0.0001290	0.01234
Na5895		9.841	ppm	0.1150	1.169
Ni2316		1.060	ppm	0.004009	0.3781
Pb2203		1.070	ppm	0.003821	0.3571
Sb2068		1.032	ppm	0.001440	0.1395
Se1960		1.017	ppm	0.005687	0.5593
Si2124		0.8830	ppm	0.008690	0.9841
Sn1899		1.045	ppm	0.005768	0.5519
Sr4077		1.022	ppm	0.006323	0.6189
Ti3361		1.068	ppm	0.01060	0.9918
Tl1908		1.067	ppm	0.0006920	0.06483
V2924		1.030	ppm	0.002472	0.2401
Zn2062		1.052	ppm	0.002099	0.1995
Y371.030		8,198.2	Cts/S	28.069	0.34238
Y029A		148,810	Cts/S	631.38	0.42429
Y029R		791.96	Cts/S	9.1729	1.1583

720-91009-a-1-a ms

Acquire Date: 1/31/2019 8:27:08PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1260	ppm	0.0003380	0.2686
Al3961		68.25	ppm	0.9998	1.465
As1890		0.2794	ppm	0.001532	0.5484
Au2427		4.793	ppm	0.09454	1.972
B_2089		0.2499	ppm	0.001447	0.5793
Ba4934		1.473	ppm	0.02779	1.886
Be3130		0.2775	ppm	0.002280	0.8217
Ca3179		32.99	ppm	0.09783	0.2966

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-1-a ms

Acquire Date: 1/31/2019 8:27:08PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.2626	ppm	0.0005680	0.2164
Co2286		0.3172	ppm	0.0007930	0.2499
Cr2677		0.5490	ppm	0.002677	0.4877
Cu327.39		0.7550	ppm	0.01008	1.336
Fe2395		112.1	ppm	0.08160	0.07277
K7694		10.31	ppm	0.2278	2.208
Mg2790		20.74	ppm	0.001946	0.009383
Mn2576		2.147	ppm	0.01373	0.6395
Mo2020		0.2388	ppm	0.001685	0.7057
Na5895		3.938	ppm	0.05408	1.373
Ni2316		0.4912	ppm	0.0001900	0.03859
Pb2203		0.7571	ppm	0.001429	0.1887
Sb2068		0.08120	ppm	0.004036	4.970
Se1960		0.2505	ppm	0.003968	1.584
Si2124		1.668	ppm	0.02094	1.256
Sn1899		0.2865	ppm	0.0006330	0.2211
Sr4077		0.5038	ppm	0.008849	1.756
Ti3361		2.719	ppm	0.04959	1.824
Tl1908		0.2517	ppm	0.0009940	0.3949
V2924		0.4845	ppm	0.001916	0.3955
Zn2062		0.7135	ppm	0.001743	0.2443
Y371.030		8,553.4	Cts/S	43.834	0.51247
Y029A		156,000	Cts/S	55.435	0.035536
Y029R		831.20	Cts/S	10.324	1.2420

720-91009-a-1-b msd

Acquire Date: 1/31/2019 8:31:50PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1242	ppm	0.0002750	0.2214
Al3961		87.26	ppm	0.2000	0.2292
As1890		0.2805	ppm	0.0006190	0.2205
Au2427		4.819	ppm	0.4623	9.593
B_2089		0.2310	ppm	0.001180	0.5108
Ba4934		1.462	ppm	0.004883	0.3339
Be3130		0.2626	ppm	0.00004000	0.01523
Ca3179		35.21	ppm	0.07650	0.2173
Cd2144		0.2508	ppm	0.0008330	0.3323
Co2286		0.3116	ppm	0.001291	0.4141
Cr2677		0.5156	ppm	0.003226	0.6257
Cu327.39		0.8325	ppm	0.008180	0.9826
Fe2395		121.0	ppm	0.6277	0.5188
K7694		10.22	ppm	0.01928	0.1886
Mg2790		20.67	ppm	0.3060	1.480

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-1-b msd

Acquire Date: 1/31/2019 8:31:50PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		2.346	ppm	0.01265	0.5393
Mo2020		0.2365	ppm	0.0004830	0.2044
Na5895		4.079	ppm	0.05535	1.357
Ni2316		0.5117	ppm	0.001986	0.3881
Pb2203		0.6857	ppm	0.0008170	0.1192
Sb2068		0.08566	ppm	0.002450	2.860
Se1960		0.2382	ppm	0.0007560	0.3173
Si2124		1.068	ppm	0.0002480	0.02322
Sn1899		0.2796	ppm	0.001136	0.4065
Sr4077		0.4961	ppm	0.001479	0.2982
Ti3361		2.551	ppm	0.03827	1.500
Tl1908		0.2468	ppm	0.0008440	0.3421
V2924		0.4854	ppm	0.002211	0.4556
Zn2062		0.8808	ppm	0.003656	0.4151
Y371.030		8,520.3	Cts/S	22.475	0.26378
Y029A		156,110	Cts/S	1,297.3	0.83102
Y029R		841.23	Cts/S	0.56569	0.067245

ICV/CCV

Acquire Date: 1/31/2019 8:36:32PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2557	ppm	0.0009580	0.3749	.2500	Rel(%)	Pass	
Al3961		15.34	ppm	0.08828	0.5755	15.00	Rel(%)	Pass	
As1890		0.5165	ppm	0.002101	0.4068	.5000	Rel(%)	Pass	
Au2427		82.75	ppm	1.165	1.408				
B_2089		0.5223	ppm	0.0004650	0.08899	.5000	Rel(%)	Pass	
Ba4934		0.4891	ppm	0.003376	0.6903	.5000	Rel(%)	Pass	
Be3130		0.5234	ppm	0.003400	0.6496	.5000	Rel(%)	Pass	
Ca3179		15.49	ppm	0.1437	0.9279	15.00	Rel(%)	Pass	
Cd2144		0.5211	ppm	0.0002770	0.05308	.5000	Rel(%)	Pass	
Co2286	**W**	**0.5253**	**ppm**	**0.0005690**	**0.1083**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677	**W**	**0.5272**	**ppm**	**0.0006720**	**0.1275**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cu327.39		0.5233	ppm	0.0004230	0.08088	.5000	Rel(%)	Pass	
Fe2395	**W**	**15.88**	**ppm**	**0.005005**	**0.03153**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
K7694		15.27	ppm	0.006158	0.04034	15.00	Rel(%)	Pass	
Mg2790		14.99	ppm	0.03972	0.2650	15.00	Rel(%)	Pass	
Mn2576		0.5055	ppm	0.001857	0.3673	.5000	Rel(%)	Pass	
Mo2020		0.5176	ppm	0.002918	0.5638	.5000	Rel(%)	Pass	
Na5895		14.52	ppm	0.2312	1.592	15.00	Rel(%)	Pass	
Ni2316		0.5125	ppm	0.001168	0.2279	.5000	Rel(%)	Pass	
Pb2203		0.5187	ppm	0.0009430	0.1819	.5000	Rel(%)	Pass	
Sb2068		0.5179	ppm	0.001960	0.3784	.5000	Rel(%)	Pass	
Se1960		0.5147	ppm	0.003197	0.6211	.5000	Rel(%)	Pass	
Si2124		0.5547	ppm	0.002517	0.4537				
Sn1899		0.4994	ppm	0.002459	0.4924	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 8:36:32PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Sr4077		0.5073	ppm	0.007094	1.398	.5000	Rel(%)	Pass	
Ti3361		0.5161	ppm	0.003735	0.7236	.5000	Rel(%)	Pass	
Tl1908	**W**	**0.5288**	**ppm**	**0.006182**	**1.169**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
V2924		0.5157	ppm	0.0002990	0.05808	.5000	Rel(%)	Pass	
Zn2062		0.5176	ppm	0.0002180	0.04214	.5000	Rel(%)	Pass	
Y371.030		8,431.8	Cts/S	49.437	0.58631				
Y029A		153,930	Cts/S	239.76	0.15576				
Y029R		809.87	Cts/S	0.36385	0.044927				

ICB/CCB

Acquire Date: 1/31/2019 8:41:15PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.001323	ppm	0.001632	123.3	.0000	Abs	Pass	
Al3961		0.08932	ppm	0.06897	77.22	.0000	Abs	Pass	
As1890		0.002235	ppm	0.002193	98.13	.0000	Abs	Pass	
Au2427		0.5548	ppm	0.4495	81.02				
B_2089		0.0009110	ppm	0.0006430	70.64	.0000	Abs	Pass	
Ba4934		0.002021	ppm	0.0009110	45.06	.0000	Abs	Pass	
Be3130		0.0004830	ppm	0.0006430	133.1	.0000	Abs	Pass	
Ca3179		0.01865	ppm	0.06808	365.0	.0000	Abs	Pass	
Cd2144		0.0007850	ppm	0.0002780	35.42	.0000	Abs	Pass	
Co2286		0.0006430	ppm	0.0002650	41.23	.0000	Abs	Pass	
Cr2677		0.0004370	ppm	0.0004400	100.6	.0000	Abs	Pass	
Cu327.39		0.0007600	ppm	0.00002400	3.196	.0000	Abs	Pass	
Fe2395		0.08224	ppm	0.1621	197.2	.0000	Abs	Pass	
K7694		-0.1376	ppm	0.2177	158.1	.0000	Abs	Pass	
Mg2790		-0.02205	ppm	0.1195	541.7	.0000	Abs	Pass	
Mn2576		0.0002470	ppm	0.0005470	221.7	.0000	Abs	Pass	
Mo2020		0.0008980	ppm	0.00009300	10.33	.0000	Abs	Pass	
Na5895		-0.04627	ppm	0.03354	72.50	.0000	Abs	Pass	
Ni2316		0.001408	ppm	0.00007700	5.501	.0000	Abs	Pass	
Pb2203		0.001499	ppm	0.0001370	9.155	.0000	Abs	Pass	
Sb2068		-0.003122	ppm	0.0002460	7.866	.0000	Abs	Pass	
Se1960		-0.0006130	ppm	0.0007740	126.3	.0000	Abs	Pass	
Si2124		-0.001981	ppm	0.002584	130.4				
Sn1899		0.0001060	ppm	0.0003160	296.7	.0000	Abs	Pass	
Sr4077		0.0006460	ppm	0.0009660	149.5	.0000	Abs	Pass	
Ti3361		0.005084	ppm	0.006176	121.5	.0000	Abs	Pass	
Tl1908		0.001536	ppm	0.00006000	3.907	.0000	Abs	Pass	
V2924		0.0009890	ppm	0.0008470	85.59	.0000	Abs	Pass	
Zn2062		0.001049	ppm	0.0002180	20.75	.0000	Abs	Pass	
Y371.030		8,608.9	Cts/S	33.284	0.38662				
Y029A		158,540	Cts/S	958.42	0.60452				
Y029R		800.25	Cts/S	0.45962	0.057434				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-1-c pds

Acquire Date: 1/31/2019 8:46:08PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.4760	ppm	0.003143	0.6603
Al3961		66.49	ppm	0.7997	1.203
As1890		1.013	ppm	0.005035	0.4971
Au2427		4.140	ppm	0.5155	12.45
B_2089		1.001	ppm	0.002115	0.2112
Ba4934		2.084	ppm	0.01646	0.7898
Be3130		1.025	ppm	0.008141	0.7942
Ca3179		37.54	ppm	0.2908	0.7748
Cd2144		0.9707	ppm	0.001225	0.1262
Co2286		1.018	ppm	0.0009280	0.09123
Cr2677		1.253	ppm	0.005513	0.4400
Cu327.39		1.378	ppm	0.008170	0.5929
Fe2395		105.6	ppm	0.6022	0.5700
K7694		16.85	ppm	0.2991	1.775
Mg2790		30.49	ppm	0.4541	1.490
Mn2576		2.762	ppm	0.01347	0.4876
Mo2020		0.9919	ppm	0.003714	0.3745
Na5895		10.90	ppm	0.01231	0.1129
Ni2316		1.170	ppm	0.0009970	0.08522
Pb2203		1.381	ppm	0.001722	0.1247
Sb2068		0.9938	ppm	0.002553	0.2569
Se1960		0.9664	ppm	0.003141	0.3250
Si2124		1.866	ppm	0.004043	0.2167
Sn1899		0.9867	ppm	0.002688	0.2724
Sr4077		1.224	ppm	0.01646	1.345
Ti3361		3.734	ppm	0.01485	0.3976
Tl1908		1.002	ppm	0.002292	0.2287
V2924		1.213	ppm	0.007129	0.5876
Zn2062		1.307	ppm	0.001089	0.08332
Y371.030		8,487.8	Cts/S	13.427	0.15819
Y029A		157,020	Cts/S	1,127.5	0.71806
Y029R		856.20	Cts/S	1.1585	0.13531

720-91009-a-1-c sd

Acquire Date: 1/31/2019 8:50:49PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001489	ppm	0.0009600	64.50
Al3961		11.48	ppm	0.9909	8.629
As1890		0.005276	ppm	0.003148	59.67
Au2427		0.5643	ppm	0.1253	22.21
B_2089		0.007423	ppm	0.0004730	6.369
Ba4934		0.2194	ppm	0.01262	5.750
Be3130		0.002421	ppm	0.001257	51.92

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-1-c sd

Acquire Date: 1/31/2019 8:50:49PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ca3179		5.896	ppm	1.964	33.31
Cd2144		0.0007610	ppm	0.00005200	6.851
Co2286		0.01058	ppm	0.0001680	1.591
Cr2677		0.05707	ppm	0.0009510	1.667
Cu327.39		0.08187	ppm	0.003668	4.480
Fe2395		20.67	ppm	6.875	33.26
K7694		1.227	ppm	0.4647	37.88
Mg2790		4.111	ppm	0.3178	7.731
Mn2576		0.3850	ppm	0.007517	1.953
Mo2020		0.001338	ppm	0.00008600	6.401
Na5895		0.1651	ppm	0.07663	46.42
Ni2316		0.04787	ppm	0.0005900	1.232
Pb2203		0.09402	ppm	0.002423	2.577
Sb2068		0.002110	ppm	0.0009620	45.59
Se1960		0.0004800	ppm	0.0004780	99.66
Si2124		0.1924	ppm	0.05600	29.10
Sn1899		0.008763	ppm	0.0004980	5.686
Sr4077		0.04450	ppm	0.0002080	0.4673
Ti3361		0.5595	ppm	0.03225	5.764
Tl1908		0.002539	ppm	0.003297	129.9
V2924		0.04968	ppm	0.001826	3.676
Zn2062		0.07546	ppm	0.001014	1.344
Y371.030		8,530.3	Cts/S	86.320	1.0119
Y029A		155,310	Cts/S	1,229.0	0.79129
Y029R		849.51	Cts/S	227.49	26.779

720-91009-a-1-c

Acquire Date: 1/31/2019 8:55:40PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001187	ppm	0.0004190	35.32
Al3961		58.59	ppm	0.3806	0.6496
As1890		0.02847	ppm	0.001290	4.533
Au2427		4.102	ppm	0.2919	7.117
B_2089		0.03037	ppm	0.0008520	2.804
Ba4934		1.096	ppm	0.01360	1.241
Be3130		0.0001340	ppm	0.0005020	375.6
Ca3179		29.95	ppm	0.2663	0.8893
Cd2144		0.001491	ppm	0.00007500	5.016
Co2286		0.04751	ppm	0.0008710	1.834
Cr2677		0.2787	ppm	0.001141	0.4095
Cu327.39		0.4010	ppm	0.001285	0.3206
Fe2395		107.0	ppm	0.4199	0.3926
K7694		7.643	ppm	0.02297	0.3006

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-1-c

Acquire Date: 1/31/2019 8:55:40PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mg2790		21.23	ppm	0.03056	0.1439
Mn2576		1.862	ppm	0.005117	0.2748
Mo2020		0.003639	ppm	0.00008200	2.250
Na5895		1.399	ppm	0.02696	1.927
Ni2316		0.2278	ppm	0.0005860	0.2574
Pb2203		0.4445	ppm	0.001451	0.3265
Sb2068		0.002380	ppm	0.001839	77.26
Se1960		0.004773	ppm	0.001739	36.43
Si2124		1.041	ppm	0.02522	2.423
Sn1899		0.03965	ppm	0.0002890	0.7280
Sr4077		0.2194	ppm	0.0004540	0.2068
Ti3361		2.911	ppm	0.07795	2.678
Tl1908		0.002121	ppm	0.002217	104.5
V2924		0.2429	ppm	0.0004050	0.1667
Zn2062		0.3675	ppm	0.0004360	0.1185
Y371.030		8,697.0	Cts/S	49.127	0.56487
Y029A		155,480	Cts/S	219.61	0.14124
Y029R		814.89	Cts/S	10.978	1.3472

720-91009-a-2-a

Acquire Date: 1/31/2019 9:00:26PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0008530	ppm	0.0001610	18.92
Al3961		90.55	ppm	0.1426	0.1575
As1890		0.01268	ppm	0.00003100	0.2479
Au2427		6.234	ppm	0.3639	5.837
B_2089		0.02802	ppm	0.002457	8.770
Ba4934		1.043	ppm	0.0002520	0.02417
Be3130		0.0009170	ppm	0.00008400	9.113
Ca3179		22.64	ppm	0.09462	0.4179
Cd2144		0.0009520	ppm	0.0001170	12.27
Co2286		0.1097	ppm	0.0003570	0.3256
Cr2677		0.7119	ppm	0.001310	0.1841
Cu327.39		0.1525	ppm	0.0005640	0.3698
Fe2395		141.2	ppm	1.278	0.9050
K7694		10.86	ppm	0.06437	0.5930
Mg2790		61.68	ppm	0.4314	0.6994
Mn2576		2.457	ppm	0.01146	0.4662
Mo2020		0.0009550	ppm	0.0002840	29.70
Na5895		5.715	ppm	0.003540	0.06193
Ni2316		0.7447	ppm	0.001142	0.1533
Pb2203		0.08678	ppm	0.001646	1.896
Sb2068		0.007865	ppm	0.002072	26.35
Se1960		0.006862	ppm	0.0001300	1.902

720-91009-a-2-a

Acquire Date: 1/31/2019 9:00:26PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Si2124		0.6458	ppm	0.0003770	0.05830
Sn1899		0.03052	ppm	0.0007090	2.324
Sr4077		0.1450	ppm	0.0004340	0.2996
Ti3361		4.760	ppm	0.008437	0.1773
Tl1908		-0.004053	ppm	0.001429	35.26
V2924		0.2962	ppm	0.001654	0.5582
Zn2062		0.3007	ppm	0.0002730	0.09094
Y371.030		8,444.3	Cts/S	15.537	0.18400
Y029A		156,690	Cts/S	269.08	0.17173
Y029R		847.36	Cts/S	0.017678	0.0020860

720-91009-a-3-a

Acquire Date: 1/31/2019 9:05:10PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001697	ppm	0.001305	76.91
Al3961		39.88	ppm	0.4471	1.121
As1890		0.01272	ppm	0.0004540	3.568
Au2427		1.526	ppm	0.2139	14.02
B_2089		0.09257	ppm	0.001303	1.408
Ba4934		0.1651	ppm	0.00003500	0.02108
Be3130		0.001340	ppm	0.001005	74.94
Ca3179		11.06	ppm	0.1194	1.080
Cd2144		0.0001480	ppm	0.0001820	122.8
Co2286		0.01423	ppm	0.0003020	2.125
Cr2677		0.1287	ppm	0.0004110	0.3197
Cu327.39		0.07724	ppm	0.0003770	0.4883
Fe2395		34.51	ppm	0.9065	2.627
K7694		5.617	ppm	0.2622	4.668
Mg2790		9.204	ppm	0.2316	2.517
Mn2576		0.5061	ppm	0.002100	0.4149
Mo2020		0.03609	ppm	0.0004840	1.341
Na5895		11.99	ppm	0.0001270	0.001060
Ni2316		0.08568	ppm	0.00006700	0.07766
Pb2203		0.01360	ppm	0.001402	10.31
Sb2068		-0.0002930	ppm	0.0002690	91.99
Se1960		0.004805	ppm	0.005968	124.2
Si2124		4.566	ppm	0.07626	1.670
Sn1899		0.03075	ppm	0.00009700	0.3139
Sr4077		0.1704	ppm	0.002580	1.514
Ti3361		0.4722	ppm	0.004911	1.040
Tl1908		-0.004129	ppm	0.002214	53.63
V2924		0.1286	ppm	0.0004310	0.3353
Zn2062		0.03714	ppm	0.00003200	0.08501

720-91009-a-3-a

Acquire Date: 1/31/2019 9:05:10PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Y371.030		8,717.6	Cts/S	13.980	0.16037
Y029A		161,810	Cts/S	324.65	0.20064
Y029R		836.19	Cts/S	14.314	1.7119

720-91009-a-4-a

Acquire Date: 1/31/2019 9:10:00PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001102	ppm	0.0002590	23.50
Al3961		110.9	ppm	0.5147	0.4641
As1890		0.01278	ppm	0.0009660	7.562
Au2427		6.512	ppm	0.5277	8.102
B_2089		0.04032	ppm	0.0003610	0.8953
Ba4934		0.9115	ppm	0.001176	0.1290
Be3130		0.001682	ppm	0.00003600	2.127
Ca3179		5.832	ppm	0.1429	2.450
Cd2144		0.0006050	ppm	0.00004800	7.883
Co2286		0.06665	ppm	0.001013	1.521
Cr2677		0.7925	ppm	0.004305	0.5432
Cu327.39		0.1696	ppm	0.001014	0.5980
Fe2395		164.5	ppm	5.337	3.245
K7694		8.876	ppm	0.08755	0.9864
Mg2790		21.44	ppm	0.3611	1.684
Mn2576		1.534	ppm	0.01043	0.6799
Mo2020		0.003024	ppm	0.0003460	11.46
Na5895		15.35	ppm	0.3249	2.117
Ni2316		0.3587	ppm	0.003597	1.003
Pb2203		0.05715	ppm	0.002735	4.786
Sb2068		0.009302	ppm	0.0005700	6.130
Se1960		0.002120	ppm	0.001030	48.58
Si2124		0.7817	ppm	0.02083	2.665
Sn1899		0.006012	ppm	0.0004460	7.423
Sr4077		0.1245	ppm	0.002348	1.886
Ti3361		1.303	ppm	0.03613	2.772
Tl1908		0.001029	ppm	0.00006400	6.233
V2924		0.3523	ppm	0.0009280	0.2634
Zn2062		0.1966	ppm	0.001579	0.8027
Y371.030		8,440.6	Cts/S	64.773	0.76739
Y029A		154,870	Cts/S	2,555.7	1.6502
Y029R		822.81	Cts/S	21.764	2.6451

720-91009-a-5-a

Acquire Date: 1/31/2019 9:14:47PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0008540	ppm	0.001556	182.2
Al3961		75.76	ppm	0.09847	0.1300
As1890		0.03460	ppm	0.001996	5.771
Au2427		3.975	ppm	0.2474	6.226
B_2089		0.03844	ppm	0.0002910	0.7579
Ba4934		0.5882	ppm	0.005795	0.9852
Be3130		0.001123	ppm	0.0008510	75.77
Ca3179		17.80	ppm	0.02867	0.1611
Cd2144		0.001334	ppm	0.0001190	8.913
Co2286		0.06334	ppm	0.0004310	0.6804
Cr2677		0.3038	ppm	0.001354	0.4457
Cu327.39		0.1681	ppm	0.0003930	0.2340
Fe2395		105.8	ppm	0.5316	0.5025
K7694		10.43	ppm	0.2392	2.293
Mg2790		29.48	ppm	0.02057	0.06979
Mn2576		0.8441	ppm	0.001273	0.1508
Mo2020		0.005730	ppm	0.0005830	10.18
Na5895		2.527	ppm	0.006791	0.2688
Ni2316		0.3092	ppm	0.002707	0.8757
Pb2203		0.3239	ppm	0.005075	1.567
Sb2068		0.007247	ppm	0.002583	35.64
Se1960		0.004423	ppm	0.0009010	20.36
Si2124		4.748	ppm	0.03485	0.7339
Sn1899		0.08258	ppm	0.00002100	0.02563
Sr4077		0.1598	ppm	0.00002400	0.01514
Ti3361		2.403	ppm	0.003199	0.1331
Tl1908		-0.008167	ppm	0.003667	44.90
V2924		0.2012	ppm	0.0005820	0.2894
Zn2062		0.3665	ppm	0.003304	0.9015
Y371.030		8,463.3	Cts/S	21.964	0.25952
Y029A		153,150	Cts/S	52.391	0.034209
Y029R		813.10	Cts/S	2.3335	0.28698

720-91009-a-6-a

Acquire Date: 1/31/2019 9:19:34PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0009020	ppm	0.001522	168.8
Al3961		77.09	ppm	0.6265	0.8126
As1890		0.03675	ppm	0.0007710	2.098
Au2427		5.105	ppm	0.4901	9.601
B_2089		0.06216	ppm	0.001965	3.160
Ba4934		0.2517	ppm	0.001426	0.5666
Be3130		0.00002700	ppm	0.0005490	2,063
Ca3179		11.35	ppm	0.03256	0.2868

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-6-a

Acquire Date: 1/31/2019 9:19:34PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.0002570	ppm	0.00006000	23.18
Co2286		0.02825	ppm	0.00009300	0.3284
Cr2677		0.2815	ppm	0.001147	0.4074
Cu327.39		0.08797	ppm	0.0009100	1.035
Fe2395		116.7	ppm	0.02620	0.02245
K7694		12.86	ppm	0.1588	1.235
Mg2790		26.66	ppm	0.09718	0.3645
Mn2576		0.8375	ppm	0.001293	0.1544
Mo2020		0.02335	ppm	0.0002670	1.145
Na5895		8.205	ppm	0.09311	1.135
Ni2316		0.1666	ppm	0.0001660	0.09986
Pb2203		0.05399	ppm	0.0002040	0.3780
Sb2068		0.002869	ppm	0.002605	90.80
Se1960		0.005909	ppm	0.00004900	0.8222
Si2124		0.9854	ppm	0.004418	0.4483
Sn1899		0.004874	ppm	0.00006300	1.290
Sr4077		0.1698	ppm	0.0001690	0.09976
Ti3361		1.601	ppm	0.001265	0.07905
Tl1908		-0.002722	ppm	0.002557	93.95
V2924		0.2418	ppm	0.0001110	0.04606
Zn2062		0.1990	ppm	0.0001330	0.06680
Y371.030		8,503.8	Cts/S	10.370	0.12195
Y029A		156,800	Cts/S	1,328.8	0.84747
Y029R		823.00	Cts/S	5.6268	0.68369

720-91009-a-7-a

Acquire Date: 1/31/2019 9:24:22PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001018	ppm	0.0006080	59.68
Al3961		59.79	ppm	0.6185	1.034
As1890		0.01271	ppm	0.001008	7.933
Au2427		1.704	ppm	0.2330	13.68
B_2089		0.05894	ppm	0.0002040	0.3467
Ba4934		0.6777	ppm	0.008432	1.244
Be3130		0.0006330	ppm	0.0006240	98.58
Ca3179		7.651	ppm	0.003045	0.03980
Cd2144		-0.00007700	ppm	0.00004300	55.23
Co2286		0.01932	ppm	0.0002550	1.319
Cr2677		0.3574	ppm	0.00005700	0.01602
Cu327.39		0.08959	ppm	0.0007640	0.8530
Fe2395		46.16	ppm	0.03792	0.08216
K7694		6.870	ppm	0.1273	1.853
Mg2790		11.59	ppm	0.3279	2.828

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-7-a

Acquire Date: 1/31/2019 9:24:22PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		0.6187	ppm	0.0005160	0.08343
Mo2020		0.008360	ppm	0.0002130	2.552
Na5895		4.540	ppm	0.1077	2.371
Ni2316		0.1366	ppm	0.0003940	0.2883
Pb2203		0.03712	ppm	0.001791	4.824
Sb2068		0.0008140	ppm	0.0009960	122.4
Se1960		0.003288	ppm	0.001965	59.77
Si2124		5.592	ppm	0.03780	0.6760
Sn1899		0.08484	ppm	0.0001720	0.2027
Sr4077		0.1298	ppm	0.001038	0.7995
Ti3361		1.259	ppm	0.002106	0.1673
Tl1908		-0.003081	ppm	0.006559	212.9
V2924		0.2172	ppm	0.0006820	0.3138
Zn2062		0.09576	ppm	0.0001320	0.1382
Y371.030		8,991.8	Cts/S	14.514	0.16142
Y029A		160,930	Cts/S	703.64	0.43723
Y029R		829.49	Cts/S	5.4270	0.65427

720-91009-a-8-a

Acquire Date: 1/31/2019 9:29:10PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.00009600	ppm	0.0008040	837.2
Al3961		78.00	ppm	0.7541	0.9668
As1890		0.02990	ppm	0.001824	6.099
Au2427		4.732	ppm	0.5185	10.96
B_2089		0.03704	ppm	0.0009010	2.433
Ba4934		0.5683	ppm	0.002815	0.4954
Be3130		0.0005780	ppm	0.0007430	128.6
Ca3179		5.522	ppm	0.1061	1.921
Cd2144		0.0004960	ppm	0.00007900	16.00
Co2286		0.06617	ppm	0.00005000	0.07632
Cr2677		0.3970	ppm	0.002377	0.5988
Cu327.39		0.1161	ppm	0.0001640	0.1414
Fe2395		136.6	ppm	1.934	1.416
K7694		7.369	ppm	0.2100	2.851
Mg2790		15.73	ppm	0.03402	0.2163
Mn2576		1.276	ppm	0.002709	0.2123
Mo2020		0.004495	ppm	0.0002570	5.708
Na5895		10.32	ppm	0.1717	1.665
Ni2316		0.2734	ppm	0.0002940	0.1076
Pb2203		0.03496	ppm	0.0009520	2.722
Sb2068		0.003863	ppm	0.0004760	12.33
Se1960		0.004391	ppm	0.003278	74.64
Si2124		1.127	ppm	0.02319	2.059

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-8-a

Acquire Date: 1/31/2019 9:29:10PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.005051	ppm	0.0006060	12.01
Sr4077		0.08895	ppm	0.0002560	0.2876
Ti3361		1.581	ppm	0.01854	1.173
Tl1908		-0.004242	ppm	0.004677	110.3
V2924		0.2856	ppm	0.0001650	0.05767
Zn2062		0.1523	ppm	0.0002680	0.1759
Y371.030		8,545.4	Cts/S	29.082	0.34032
Y029A		154,430	Cts/S	293.31	0.18993
Y029R		785.57	Cts/S	11.885	1.5129

ICV/CCV

Acquire Date: 1/31/2019 9:33:58PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2569	ppm	0.0008510	0.3312	.2500	Rel(%)	Pass	
Al3961		15.58	ppm	0.1731	1.111	15.00	Rel(%)	Pass	
As1890		0.5099	ppm	0.001536	0.3013	.5000	Rel(%)	Pass	
Au2427		80.04	ppm	1.030	1.287				
B_2089		0.5170	ppm	0.001830	0.3540	.5000	Rel(%)	Pass	
Ba4934		0.5008	ppm	0.004666	0.9317	.5000	Rel(%)	Pass	
Be3130		0.5210	ppm	0.0008180	0.1571	.5000	Rel(%)	Pass	
Ca3179		15.40	ppm	0.06832	0.4437	15.00	Rel(%)	Pass	
Cd2144		0.5176	ppm	0.002812	0.5432	.5000	Rel(%)	Pass	
Co2286		0.5224	ppm	0.003575	0.6844	.5000	Rel(%)	Pass	
Cr2677		0.5201	ppm	0.001246	0.2396	.5000	Rel(%)	Pass	
Cu327.39		0.5214	ppm	0.0002510	0.04815	.5000	Rel(%)	Pass	
Fe2395		15.31	ppm	0.006835	0.04466	15.00	Rel(%)	Pass	
K7694		14.96	ppm	0.1327	0.8874	15.00	Rel(%)	Pass	
Mg2790	**W**	**15.77**	**ppm**	**0.3115**	**1.975**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mn2576		0.5079	ppm	0.0006120	0.1206	.5000	Rel(%)	Pass	
Mo2020		0.5123	ppm	0.001473	0.2875	.5000	Rel(%)	Pass	
Na5895		14.37	ppm	0.03419	0.2380	15.00	Rel(%)	Pass	
Ni2316		0.5122	ppm	0.001306	0.2551	.5000	Rel(%)	Pass	
Pb2203		0.5131	ppm	0.0007410	0.1444	.5000	Rel(%)	Pass	
Sb2068		0.5127	ppm	0.002766	0.5396	.5000	Rel(%)	Pass	
Se1960		0.5109	ppm	0.0009590	0.1876	.5000	Rel(%)	Pass	
Si2124		0.5345	ppm	0.005055	0.9457				
Sn1899		0.5032	ppm	0.002115	0.4203	.5000	Rel(%)	Pass	
Sr4077		0.5181	ppm	0.001723	0.3326	.5000	Rel(%)	Pass	
Ti3361		0.5028	ppm	0.003013	0.5994	.5000	Rel(%)	Pass	
Tl1908		0.5097	ppm	0.005129	1.006	.5000	Rel(%)	Pass	
V2924		0.5144	ppm	0.001093	0.2126	.5000	Rel(%)	Pass	
Zn2062		0.5153	ppm	0.002585	0.5017	.5000	Rel(%)	Pass	
Y371.030		8,338.9	Cts/S	15.237	0.18272				
Y029A		156,660	Cts/S	522.72	0.33366				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 9:33:58PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Y029R		827.14	Cts/S	2.3094	0.27921				

ICB/CCB

Acquire Date: 1/31/2019 9:38:41PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.001615	ppm	0.0006380	39.51	.0000	Abs	Pass	
Al3961		0.1112	ppm	0.005429	4.880	.0000	Abs	Pass	
As1890		0.002434	ppm	0.0002650	10.91	.0000	Abs	Pass	
Au2427		0.8537	ppm	0.03836	4.493				
B_2089		0.001125	ppm	0.00006100	5.384	.0000	Abs	Pass	
Ba4934		-0.002432	ppm	0.00001600	0.6428	.0000	Abs	Pass	
Be3130		0.0005350	ppm	0.0004410	82.45	.0000	Abs	Pass	
Ca3179		-0.05494	ppm	0.006798	12.37	.0000	Abs	Pass	
Cd2144		0.0004870	ppm	0.0001830	37.59	.0000	Abs	Pass	
Co2286		0.0008520	ppm	0.0004250	49.84	.0000	Abs	Pass	
Cr2677		0.0007140	ppm	0.0002000	28.02	.0000	Abs	Pass	
Cu327.39		0.0003800	ppm	0.000001000	0.2745	.0000	Abs	Pass	
Fe2395		-0.02071	ppm	0.1072	517.7	.0000	Abs	Pass	
K7694		-0.3469	ppm	0.2531	72.97	.0000	Abs	Pass	
Mg2790		0.01127	ppm	0.3498	3,103	.0000	Abs	Pass	
Mn2576		-0.0002070	ppm	0.0007260	349.9	.0000	Abs	Pass	
Mo2020		0.0008070	ppm	0.00004300	5.307	.0000	Abs	Pass	
Na5895		-0.02293	ppm	0.04598	200.6	.0000	Abs	Pass	
Ni2316		0.001112	ppm	0.0003960	35.60	.0000	Abs	Pass	
Pb2203		0.0006830	ppm	0.00005700	8.322	.0000	Abs	Pass	
Sb2068		0.00007900	ppm	0.0006970	877.2	.0000	Abs	Pass	
Se1960		0.003688	ppm	0.007135	193.5	.0000	Abs	Pass	
Si2124		0.003060	ppm	0.0001680	5.492				
Sn1899		0.0005100	ppm	0.0002040	40.02	.0000	Abs	Pass	
Sr4077		0.00007600	ppm	0.0007840	1,029	.0000	Abs	Pass	
Ti3361		-0.001673	ppm	0.002322	138.8	.0000	Abs	Pass	
Tl1908		-0.004203	ppm	0.0001970	4.689	.0000	Abs	Pass	
V2924		0.0008150	ppm	0.0002730	33.53	.0000	Abs	Pass	
Zn2062		0.0004570	ppm	0.0002470	53.99	.0000	Abs	Pass	
Y371.030		8,771.0	Cts/S	43.312	0.49381				
Y029A		159,820	Cts/S	393.58	0.24627				
Y029R		815.91	Cts/S	3.1289	0.38349				

720-91009-a-9-a

Acquire Date: 1/31/2019 9:43:35PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD

720-91009-a-9-a

Acquire Date: 1/31/2019 9:43:35PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0004990	ppm	0.0005720	114.6
Al3961		73.16	ppm	0.1735	0.2372
As1890		0.04412	ppm	0.0009460	2.144
Au2427		5.804	ppm	0.1967	3.389
B_2089		0.01147	ppm	0.0001180	1.027
Ba4934		0.6782	ppm	0.002153	0.3174
Be3130		0.001441	ppm	0.0002480	17.19
Ca3179		10.57	ppm	0.1088	1.029
Cd2144		0.002430	ppm	0.00007000	2.871
Co2286		0.04411	ppm	0.0001270	0.2879
Cr2677		0.4088	ppm	0.002329	0.5697
Cu327.39		0.6350	ppm	0.0006110	0.09629
Fe2395		136.1	ppm	1.427	1.048
K7694		4.907	ppm	0.1920	3.913
Mg2790		10.25	ppm	0.2164	2.111
Mn2576		0.4788	ppm	0.001208	0.2523
Mo2020		0.002703	ppm	0.0005600	20.72
Na5895		2.044	ppm	0.03024	1.479
Ni2316		0.1384	ppm	0.0005330	0.3851
Pb2203		1.322	ppm	0.004043	0.3058
Sb2068		0.003501	ppm	0.002979	85.10
Se1960		0.006127	ppm	0.003484	56.86
Si2124		1.788	ppm	0.01478	0.8262
Sn1899		0.03710	ppm	0.001142	3.079
Sr4077		0.4206	ppm	0.001187	0.2824
Ti3361		0.6510	ppm	0.02830	4.348
Tl1908		-0.004517	ppm	0.003385	74.93
V2924		0.2766	ppm	0.002026	0.7324
Zn2062		0.9780	ppm	0.002796	0.2859
Y371.030		8,722.7	Cts/S	22.040	0.25267
Y029A		157,210	Cts/S	442.34	0.28137
Y029R		820.21	Cts/S	4.4017	0.53666

720-91009-a-10-a

Acquire Date: 1/31/2019 9:48:22PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001482	ppm	0.001510	101.9
Al3961		29.77	ppm	0.3897	1.309
As1890		0.01587	ppm	0.001448	9.128
Au2427		3.265	ppm	0.3548	10.87
B_2089		0.02830	ppm	0.0005320	1.880
Ba4934		0.1451	ppm	0.003927	2.708
Be3130		-0.0007510	ppm	0.0001920	25.53
Ca3179		15.88	ppm	0.4290	2.701

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-10-a

Acquire Date: 1/31/2019 9:48:22PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.005548	ppm	0.00002200	0.4015
Co2286		0.03532	ppm	0.0004770	1.350
Cr2677		0.1773	ppm	0.001099	0.6201
Cu327.39		0.6418	ppm	0.001729	0.2694
Fe2395		82.64	ppm	1.993	2.412
K7694		3.853	ppm	0.1804	4.681
Mg2790		9.393	ppm	0.08691	0.9252
Mn2576		0.2667	ppm	0.0002230	0.08347
Mo2020		0.001857	ppm	0.0001630	8.754
Na5895		2.246	ppm	0.009506	0.4232
Ni2316		0.2107	ppm	0.0008080	0.3837
Pb2203		0.5686	ppm	0.0005630	0.09894
Sb2068		0.003116	ppm	0.0009270	29.75
Se1960		0.005008	ppm	0.002152	42.97
Si2124		0.3382	ppm	0.0005450	0.1611
Sn1899		0.06752	ppm	0.0003070	0.4554
Sr4077		0.3222	ppm	0.002043	0.6342
Ti3361		1.214	ppm	0.01737	1.431
Tl1908		-0.001479	ppm	0.004727	319.6
V2924		0.1005	ppm	0.0004800	0.4779
Zn2062		0.3048	ppm	0.0001650	0.05403
Y371.030		8,586.3	Cts/S	8.3112	0.096796
Y029A		161,290	Cts/S	666.11	0.41299
Y029R		832.00	Cts/S	10.076	1.2111

720-91009-a-11-a

Acquire Date: 1/31/2019 9:53:09PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.002288	ppm	0.0004750	20.77
Al3961		90.03	ppm	0.1659	0.1843
As1890		0.04351	ppm	0.002026	4.657
Au2427		6.087	ppm	0.04695	0.7713
B_2089		0.06071	ppm	0.0004970	0.8187
Ba4934		1.069	ppm	0.001185	0.1109
Be3130		0.0002780	ppm	0.0009780	352.3
Ca3179		24.02	ppm	0.01023	0.04258
Cd2144		0.002888	ppm	0.000008000	0.2698
Co2286		0.07994	ppm	0.00005000	0.06266
Cr2677		0.3621	ppm	0.0006010	0.1659
Cu327.39		0.3832	ppm	0.0004720	0.1231
Fe2395		150.2	ppm	1.033	0.6875
K7694		13.04	ppm	0.07792	0.5976
Mg2790		34.73	ppm	0.05021	0.1446

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-11-a

Acquire Date: 1/31/2019 9:53:09PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		1.479	ppm	0.005461	0.3692
Mo2020		0.008690	ppm	0.0003550	4.082
Na5895		8.357	ppm	0.04802	0.5746
Ni2316		0.3645	ppm	0.0009600	0.2634
Pb2203		1.458	ppm	0.0007780	0.05335
Sb2068		0.006096	ppm	0.001252	20.53
Se1960		0.001683	ppm	0.002520	149.7
Si2124		0.8623	ppm	0.001302	0.1510
Sn1899		0.1070	ppm	0.0004310	0.4026
Sr4077		0.2081	ppm	0.002745	1.319
Ti3361		2.803	ppm	0.02404	0.8576
Tl1908		-0.0007890	ppm	0.0004850	61.45
V2924		0.3013	ppm	0.0008280	0.2748
Zn2062		0.8585	ppm	0.0004150	0.04832
Y371.030		8,778.8	Cts/S	15.810	0.18009
Y029A		157,440	Cts/S	374.06	0.23759
Y029R		823.74	Cts/S	1.0155	0.12328

720-91009-a-12-a

Acquire Date: 1/31/2019 9:57:53PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0005260	ppm	0.0001250	23.82
Al3961		113.0	ppm	0.2276	0.2015
As1890		0.007819	ppm	0.0004630	5.919
Au2427		2.190	ppm	0.07162	3.270
B_2089		0.1845	ppm	0.001503	0.8144
Ba4934		0.5662	ppm	0.002754	0.4863
Be3130		-0.0002080	ppm	0.0003470	167.1
Ca3179		17.58	ppm	0.03615	0.2056
Cd2144		-0.0003120	ppm	0.00006900	22.15
Co2286		0.03847	ppm	0.0001200	0.3125
Cr2677		0.3167	ppm	0.001115	0.3521
Cu327.39		0.1561	ppm	0.001247	0.7984
Fe2395		65.60	ppm	0.3787	0.5773
K7694		14.96	ppm	0.1056	0.7058
Mg2790		23.05	ppm	0.3839	1.666
Mn2576		0.8688	ppm	0.005795	0.6670
Mo2020		0.01469	ppm	0.0005540	3.771
Na5895		26.92	ppm	0.1080	0.4013
Ni2316		0.2255	ppm	0.0004480	0.1985
Pb2203		0.05180	ppm	0.00007800	0.1497
Sb2068		0.0003060	ppm	0.001643	536.4
Se1960		0.003722	ppm	0.002636	70.82
Si2124		6.146	ppm	0.02508	0.4081

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-12-a

Acquire Date: 1/31/2019 9:57:53PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.02435	ppm	0.0003960	1.628
Sr4077		0.2904	ppm	0.001230	0.4235
Ti3361		1.183	ppm	0.007092	0.5995
Tl1908		-0.004591	ppm	0.002230	48.58
V2924		0.2389	ppm	0.001761	0.7370
Zn2062		0.1260	ppm	0.0001240	0.09833
Y371.030		8,793.7	Cts/S	31.583	0.35915
Y029A		156,620	Cts/S	1,164.5	0.74351
Y029R		830.28	Cts/S	3.9246	0.47268

720-91009-a-13-a

Acquire Date: 1/31/2019 10:02:40PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001542	ppm	0.001530	99.18
Al3961		79.88	ppm	1.507	1.887
As1890		0.02364	ppm	0.001075	4.549
Au2427		6.459	ppm	0.1767	2.736
B_2089		0.04543	ppm	0.0002340	0.5161
Ba4934		0.3938	ppm	0.008166	2.074
Be3130		0.001534	ppm	0.0001890	12.29
Ca3179		2.568	ppm	0.005038	0.1962
Cd2144		0.0004060	ppm	0.00004700	11.69
Co2286		0.04396	ppm	0.00004800	0.1082
Cr2677		0.3547	ppm	0.0004050	0.1142
Cu327.39		0.1634	ppm	0.0004680	0.2867
Fe2395		144.5	ppm	1.604	1.110
K7694		7.555	ppm	0.03471	0.4595
Mg2790		18.94	ppm	0.3873	2.046
Mn2576		0.7476	ppm	0.001089	0.1456
Mo2020		0.001070	ppm	0.0001240	11.58
Na5895		15.93	ppm	0.09655	0.6060
Ni2316		0.2746	ppm	0.00008700	0.03150
Pb2203		0.03801	ppm	0.0002510	0.6612
Sb2068		0.005814	ppm	0.0006430	11.06
Se1960		0.006787	ppm	0.003419	50.38
Si2124		3.192	ppm	0.06549	2.052
Sn1899		0.004207	ppm	0.0006530	15.52
Sr4077		0.07294	ppm	0.001462	2.004
Ti3361		1.976	ppm	0.03682	1.864
Tl1908		-0.004422	ppm	0.001608	36.36
V2924		0.2725	ppm	0.0003350	0.1230
Zn2062		0.1683	ppm	0.0002320	0.1379
Y371.030		8,429.1	Cts/S	2.5526	0.030283

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-13-a

Acquire Date: 1/31/2019 10:02:40PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		157,330	Cts/S	742.71	0.47206
Y029R		835.04	Cts/S	17.337	2.0761

720-91009-a-14-a

Acquire Date: 1/31/2019 10:07:27PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001699	ppm	0.0004570	26.90
Al3961		34.18	ppm	0.3192	0.9341
As1890		0.01247	ppm	0.001413	11.34
Au2427		5.782	ppm	0.1252	2.166
B_2089		0.003783	ppm	0.0007860	20.79
Ba4934		0.4048	ppm	0.001741	0.4302
Be3130		0.004367	ppm	0.0005860	13.41
Ca3179		7.926	ppm	0.04157	0.5244
Cd2144		0.001136	ppm	0.0001200	10.58
Co2286		0.2501	ppm	0.0002320	0.09273
Cr2677		0.2063	ppm	0.0002440	0.1182
Cu327.39		0.1446	ppm	0.0003800	0.2630
Fe2395		156.0	ppm	0.3995	0.2560
K7694		4.011	ppm	0.01687	0.4206
Mg2790		13.37	ppm	0.2781	2.079
Mn2576		2.613	ppm	0.008927	0.3416
Mo2020		0.0005950	ppm	0.00009300	15.69
Na5895		6.092	ppm	0.02297	0.3770
Ni2316		1.309	ppm	0.003384	0.2585
Pb2203		0.02895	ppm	0.0002240	0.7750
Sb2068		0.007729	ppm	0.0009960	12.89
Se1960		0.007825	ppm	0.003917	50.06
Si2124		1.442	ppm	0.01339	0.9283
Sn1899		0.002969	ppm	0.0006000	20.22
Sr4077		0.1166	ppm	0.0009920	0.8506
Ti3361		0.01219	ppm	0.005007	41.07
Tl1908		-0.004609	ppm	0.004539	98.48
V2924		0.1055	ppm	0.0003680	0.3486
Zn2062		0.3993	ppm	0.0008740	0.2188
Y371.030		8,952.8	Cts/S	21.558	0.24079
Y029A		161,290	Cts/S	46.505	0.028833
Y029R		841.04	Cts/S	0.51265	0.060955

720-91009-a-15-a

Acquire Date: 1/31/2019 10:12:14PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001604	ppm	0.001672	104.3
Al3961		56.13	ppm	0.5208	0.9279
As1890		0.03759	ppm	0.002216	5.896
Au2427		2.913	ppm	0.5396	18.53
B_2089		0.06747	ppm	0.0007500	1.112
Ba4934		2.317	ppm	0.01883	0.8126
Be3130		-0.0001820	ppm	0.0005270	290.0
Ca3179		11.68	ppm	0.09114	0.7801
Cd2144		0.0003880	ppm	0.000005000	1.330
Co2286		0.04071	ppm	0.0001240	0.3039
Cr2677		0.2101	ppm	0.001115	0.5306
Cu327.39		0.2886	ppm	0.001194	0.4136
Fe2395		84.55	ppm	0.5709	0.6753
K7694		9.746	ppm	0.01204	0.1235
Mg2790		25.00	ppm	0.1579	0.6317
Mn2576		1.704	ppm	0.005498	0.3226
Mo2020		0.003445	ppm	0.0002140	6.215
Na5895		5.899	ppm	0.02855	0.4840
Ni2316		0.2172	ppm	0.0005140	0.2365
Pb2203		1.517	ppm	0.0003250	0.02140
Sb2068		0.002277	ppm	0.004166	182.9
Se1960		0.0005320	ppm	0.001667	313.1
Si2124		4.939	ppm	0.01459	0.2953
Sn1899		0.06584	ppm	0.0006020	0.9146
Sr4077		0.1956	ppm	0.002007	1.026
Ti3361		2.884	ppm	0.002391	0.08290
Tl1908		-0.007737	ppm	0.001415	18.28
V2924		0.1905	ppm	0.00003000	0.01596
Zn2062		0.2923	ppm	0.0005060	0.1730
Y371.030		8,881.1	Cts/S	4.6862	0.052766
Y029A		158,430	Cts/S	26.991	0.017037
Y029R		817.41	Cts/S	0.83085	0.10164

720-91009-a-16-a

Acquire Date: 1/31/2019 10:17:01PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.002929	ppm	0.0009190	31.38
Al3961		97.97	ppm	0.4349	0.4439
As1890		0.03798	ppm	0.002169	5.711
Au2427		5.728	ppm	0.5347	9.335
B_2089		0.05466	ppm	0.003507	6.415
Ba4934		1.027	ppm	0.005443	0.5301
Be3130		0.0007110	ppm	0.0007550	106.2
Ca3179		24.49	ppm	0.1827	0.7462

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-16-a

Acquire Date: 1/31/2019 10:17:01PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.001082	ppm	0.00006700	6.163
Co2286		0.09872	ppm	0.006243	6.324
Cr2677		0.3878	ppm	0.0006530	0.1684
Cu327.39		0.2454	ppm	0.001188	0.4840
Fe2395		160.7	ppm	1.924	1.197
K7694		13.06	ppm	0.07852	0.6011
Mg2790		41.95	ppm	0.1477	0.3521
Mn2576		5.390	ppm	0.05701	1.058
Mo2020		0.009873	ppm	0.00003000	0.3001
Na5895		10.84	ppm	0.1569	1.447
Ni2316		0.3982	ppm	0.02240	5.624
Pb2203		0.3593	ppm	0.01793	4.991
Sb2068		0.004209	ppm	0.003019	71.74
Se1960		0.004874	ppm	0.002390	49.04
Si2124		0.8258	ppm	0.01808	2.189
Sn1899		0.05937	ppm	0.003303	5.564
Sr4077		0.2120	ppm	0.0007620	0.3595
Ti3361		2.384	ppm	0.001192	0.05001
Tl1908		-0.007749	ppm	0.002001	25.82
V2924		0.2944	ppm	0.001077	0.3659
Zn2062		0.4536	ppm	0.02584	5.696
Y371.030		8,553.1	Cts/S	403.35	4.7158
Y029A		160,760	Cts/S	1,053.3	0.65520
Y029R		856.67	Cts/S	8.3413	0.97369

720-91009-a-17-a

Acquire Date: 1/31/2019 10:21:52PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0008640	ppm	0.0002410	27.83
Al3961		107.3	ppm	0.6078	0.5665
As1890		0.02265	ppm	0.001287	5.681
Au2427		5.229	ppm	0.5276	10.09
B_2089		0.08370	ppm	0.001315	1.572
Ba4934		0.6855	ppm	0.002475	0.3611
Be3130		0.002681	ppm	0.0006190	23.11
Ca3179		10.94	ppm	0.03827	0.3498
Cd2144		0.0001680	ppm	0.00004100	24.30
Co2286		0.06066	ppm	0.0001800	0.2964
Cr2677		0.4406	ppm	0.0004300	0.09754
Cu327.39		0.1765	ppm	0.001846	1.046
Fe2395		124.9	ppm	0.9735	0.7794
K7694		15.60	ppm	0.1259	0.8071
Mg2790		19.82	ppm	0.2052	1.035

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-17-a

Acquire Date: 1/31/2019 10:21:52PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		0.8839	ppm	0.002520	0.2851
Mo2020		0.08359	ppm	0.0002940	0.3523
Na5895		10.37	ppm	0.09531	0.9194
Ni2316		0.3090	ppm	0.0001760	0.05689
Pb2203		0.03047	ppm	0.002765	9.077
Sb2068		0.003342	ppm	0.0001680	5.025
Se1960		0.001958	ppm	0.0004730	24.18
Si2124		2.985	ppm	0.006957	0.2331
Sn1899		0.09859	ppm	0.001004	1.018
Sr4077		0.1961	ppm	0.0001730	0.08810
Ti3361		1.896	ppm	0.02942	1.552
Tl1908		0.0006230	ppm	0.003093	496.3
V2924		0.3189	ppm	0.0009310	0.2921
Zn2062		0.1859	ppm	0.0002700	0.1454
Y371.030		9,106.8	Cts/S	2.8469	0.031261
Y029A		164,470	Cts/S	540.60	0.32868
Y029R		872.04	Cts/S	4.3610	0.50009

720-91009-a-18-a

Acquire Date: 1/31/2019 10:26:39PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0009520	ppm	0.0004150	43.58
Al3961		79.73	ppm	0.2738	0.3434
As1890		0.08894	ppm	0.001269	1.427
Au2427		7.574	ppm	0.06391	0.8438
B_2089		0.04274	ppm	0.0007160	1.675
Ba4934		0.5707	ppm	0.01134	1.986
Be3130		0.001277	ppm	0.0001540	12.08
Ca3179		7.389	ppm	0.03811	0.5158
Cd2144		0.001301	ppm	0.00007300	5.633
Co2286		0.1862	ppm	0.001266	0.6799
Cr2677		0.6673	ppm	0.001319	0.1977
Cu327.39		0.1850	ppm	0.001483	0.8018
Fe2395		202.1	ppm	0.8430	0.4171
K7694		10.05	ppm	0.04882	0.4857
Mg2790		18.25	ppm	0.1143	0.6262
Mn2576		3.028	ppm	0.007800	0.2576
Mo2020		0.02759	ppm	0.00009400	0.3399
Na5895		9.456	ppm	0.007433	0.07860
Ni2316		0.4111	ppm	0.0008430	0.2050
Pb2203		0.06453	ppm	0.0004830	0.7484
Sb2068		0.009938	ppm	0.001858	18.69
Se1960		0.004525	ppm	0.002146	47.41
Si2124		1.848	ppm	0.01233	0.6672

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91009-a-18-a

Acquire Date: 1/31/2019 10:26:39PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.005438	ppm	0.0005310	9.759
Sr4077		0.1117	ppm	0.0009650	0.8637
Ti3361		1.543	ppm	0.01255	0.8131
Tl1908		-0.00009000	ppm	0.001705	1,891
V2924		0.4116	ppm	0.00005300	0.01286
Zn2062		0.2017	ppm	0.0004600	0.2280
Y371.030		8,696.9	Cts/S	8.6937	0.099964
Y029A		156,430	Cts/S	533.55	0.34108
Y029R		802.97	Cts/S	3.4801	0.43340

ICV/CCV

Acquire Date: 1/31/2019 10:31:24PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2547	ppm	0.001063	0.4174	.2500	Rel(%)	Pass	
Al3961		15.12	ppm	0.02400	0.1587	15.00	Rel(%)	Pass	
As1890		0.5123	ppm	0.0002370	0.04631	.5000	Rel(%)	Pass	
Au2427		81.00	ppm	0.2165	0.2673				
B_2089		0.5184	ppm	0.003616	0.6975	.5000	Rel(%)	Pass	
Ba4934		0.4845	ppm	0.0001780	0.03667	.5000	Rel(%)	Pass	
Be3130		0.5186	ppm	0.002165	0.4175	.5000	Rel(%)	Pass	
Ca3179		15.61	ppm	0.09138	0.5856	15.00	Rel(%)	Pass	
Cd2144		0.5194	ppm	0.003151	0.6065	.5000	Rel(%)	Pass	
Co2286		0.5240	ppm	0.002769	0.5285	.5000	Rel(%)	Pass	
Cr2677	**W**	**0.5273**	**ppm**	**0.002021**	**0.3833**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cu327.39		0.5215	ppm	0.001535	0.2945	.5000	Rel(%)	Pass	
Fe2395	**W**	**16.03**	**ppm**	**0.4078**	**2.544**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
K7694		15.63	ppm	0.2422	1.550	15.00	Rel(%)	Pass	
Mg2790		14.99	ppm	0.1091	0.7278	15.00	Rel(%)	Pass	
Mn2576		0.5072	ppm	0.0006500	0.1282	.5000	Rel(%)	Pass	
Mo2020		0.5130	ppm	0.001095	0.2134	.5000	Rel(%)	Pass	
Na5895		14.49	ppm	0.01578	0.1089	15.00	Rel(%)	Pass	
Ni2316		0.5123	ppm	0.002162	0.4220	.5000	Rel(%)	Pass	
Pb2203		0.5144	ppm	0.001916	0.3724	.5000	Rel(%)	Pass	
Sb2068		0.5130	ppm	0.002515	0.4903	.5000	Rel(%)	Pass	
Se1960		0.5083	ppm	0.004807	0.9458	.5000	Rel(%)	Pass	
Si2124		0.5587	ppm	0.007107	1.272				
Sn1899		0.5004	ppm	0.002311	0.4619	.5000	Rel(%)	Pass	
Sr4077		0.5070	ppm	0.004651	0.9173	.5000	Rel(%)	Pass	
Ti3361		0.5001	ppm	0.01234	2.468	.5000	Rel(%)	Pass	
Tl1908		0.5181	ppm	0.004547	0.8777	.5000	Rel(%)	Pass	
V2924		0.5142	ppm	0.003219	0.6260	.5000	Rel(%)	Pass	
Zn2062		0.5167	ppm	0.002395	0.4635	.5000	Rel(%)	Pass	
Y371.030		8,355.1	Cts/S	40.943	0.49004				
Y029A		155,320	Cts/S	287.89	0.18535				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 10:31:24PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Y029R		797.93	Cts/S	9.5344	1.1949				

ICB/CCB

Acquire Date: 1/31/2019 10:36:08PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280	**F**	**0.002258**	**ppm**	**0.0001670**	**7.387**	**.0000**	**Abs**	**Fail High**	**.0020**
Al3961		0.07946	ppm	0.03488	43.89	.0000	Abs	Pass	
As1890		0.001677	ppm	0.00002800	1.657	.0000	Abs	Pass	
Au2427		0.7113	ppm	0.3474	48.84				
B_2089		0.0007640	ppm	0.0003480	45.51	.0000	Abs	Pass	
Ba4934		0.0005880	ppm	0.001303	221.5	.0000	Abs	Pass	
Be3130		-0.0003230	ppm	0.0001940	59.91	.0000	Abs	Pass	
Ca3179		-0.06163	ppm	0.009927	16.11	.0000	Abs	Pass	
Cd2144		0.0007330	ppm	0.0001150	15.75	.0000	Abs	Pass	
Co2286		0.001007	ppm	0.0004080	40.55	.0000	Abs	Pass	
Cr2677		0.0006060	ppm	0.00001700	2.753	.0000	Abs	Pass	
Cu327.39		0.001036	ppm	0.001770	170.8	.0000	Abs	Pass	
Fe2395		0.1004	ppm	0.006820	6.790	.0000	Abs	Pass	
K7694		-0.1061	ppm	0.3909	368.4	.0000	Abs	Pass	
Mg2790		-0.07086	ppm	0.1208	170.5	.0000	Abs	Pass	
Mn2576		0.001324	ppm	0.001234	93.13	.0000	Abs	Pass	
Mo2020		0.0007190	ppm	0.0002930	40.71	.0000	Abs	Pass	
Na5895		0.01112	ppm	0.02235	201.1	.0000	Abs	Pass	
Ni2316		0.002220	ppm	0.0002570	11.57	.0000	Abs	Pass	
Pb2203		0.0008610	ppm	0.0004070	47.26	.0000	Abs	Pass	
Sb2068		-0.0002410	ppm	0.0002140	89.07	.0000	Abs	Pass	
Se1960		-0.0007250	ppm	0.001055	145.4	.0000	Abs	Pass	
Si2124		0.0003690	ppm	0.001869	505.9				
Sn1899		0.0004660	ppm	0.0006030	129.3	.0000	Abs	Pass	
Sr4077		-0.00003200	ppm	0.000005000	16.68	.0000	Abs	Pass	
Ti3361		0.001497	ppm	0.01623	1,084	.0000	Abs	Pass	
Tl1908		0.0006490	ppm	0.002735	421.5	.0000	Abs	Pass	
V2924		0.0003550	ppm	0.000009000	2.608	.0000	Abs	Pass	
Zn2062		0.0008870	ppm	0.0002180	24.62	.0000	Abs	Pass	
Y371.030		8,532.9	Cts/S	50.559	0.59252				
Y029A		159,040	Cts/S	1,463.8	0.92040				
Y029R		803.64	Cts/S	3.6946	0.45974				

720-91010-a-21-a

Acquire Date: 1/31/2019 10:41:01PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-a-21-a

Acquire Date: 1/31/2019 10:41:01PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001097	ppm	0.0005540	50.54
Al3961		81.24	ppm	1.132	1.394
As1890		0.02203	ppm	0.0005650	2.564
Au2427		6.632	ppm	0.4484	6.761
B_2089		0.02934	ppm	0.0006930	2.363
Ba4934		1.101	ppm	0.01512	1.374
Be3130		0.001471	ppm	0.0002320	15.75
Ca3179		7.912	ppm	0.02483	0.3138
Cd2144		0.001159	ppm	0.0001040	8.998
Co2286		0.1181	ppm	0.0001660	0.1404
Cr2677		0.4579	ppm	0.003039	0.6637
Cu327.39		0.1474	ppm	0.002292	1.555
Fe2395		172.8	ppm	1.378	0.7973
K7694		8.565	ppm	0.1104	1.289
Mg2790		13.51	ppm	0.9252	6.849
Mn2576		2.908	ppm	0.009152	0.3147
Mo2020		0.003813	ppm	0.0005470	14.34
Na5895		5.684	ppm	0.05158	0.9075
Ni2316		0.2859	ppm	0.001107	0.3871
Pb2203		0.05540	ppm	0.0002590	0.4675
Sb2068		0.004158	ppm	0.001045	25.13
Se1960		0.006391	ppm	0.003529	55.22
Si2124		4.901	ppm	0.05674	1.158
Sn1899		0.005208	ppm	0.0002180	4.178
Sr4077		0.2206	ppm	0.002033	0.9214
Ti3361		0.9426	ppm	0.007516	0.7974
Tl1908		-0.006018	ppm	0.007919	131.6
V2924		0.3343	ppm	0.002274	0.6802
Zn2062		0.1332	ppm	0.00002300	0.01743
Y371.030		8,545.7	Cts/S	3.0933	0.036198
Y029A		153,390	Cts/S	1,765.8	1.1512
Y029R		797.64	Cts/S	9.6343	1.2079

720-91010-a-22-a

Acquire Date: 1/31/2019 10:45:49PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001618	ppm	0.0007960	49.17
Al3961		104.8	ppm	0.1899	0.1812
As1890		0.03468	ppm	0.001293	3.728
Au2427		7.191	ppm	0.4421	6.149
B_2089		0.04857	ppm	0.0009540	1.964
Ba4934		1.289	ppm	0.004616	0.3580
Be3130		0.002363	ppm	0.0002180	9.216
Ca3179		14.98	ppm	0.08705	0.5813

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91010-a-22-a

Acquire Date: 1/31/2019 10:45:49PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.0007770	ppm	0.0001120	14.39
Co2286		0.1249	ppm	0.0005210	0.4173
Cr2677		0.5003	ppm	0.001982	0.3962
Cu327.39		0.2162	ppm	0.0008690	0.4022
Fe2395		173.2	ppm	1.165	0.6727
K7694		11.08	ppm	0.1031	0.9307
Mg2790		23.42	ppm	0.08232	0.3515
Mn2576		2.867	ppm	0.01221	0.4257
Mo2020		0.004442	ppm	0.0002300	5.172
Na5895		5.187	ppm	0.03270	0.6305
Ni2316		0.3665	ppm	0.0008760	0.2391
Pb2203		0.1935	ppm	0.0009300	0.4804
Sb2068		0.005890	ppm	0.002778	47.16
Se1960		0.004345	ppm	0.0007030	16.18
Si2124		4.313	ppm	0.03451	0.8001
Sn1899		0.009341	ppm	0.0002330	2.496
Sr4077		0.2314	ppm	0.0004090	0.1768
Ti3361		1.786	ppm	0.01187	0.6647
Tl1908		-0.003888	ppm	0.003395	87.33
V2924		0.3903	ppm	0.002290	0.5866
Zn2062		0.3004	ppm	0.001304	0.4341
Y371.030		8,709.2	Cts/S	13.862	0.15916
Y029A		159,930	Cts/S	1,283.3	0.80240
Y029R		839.36	Cts/S	4.6492	0.55390

ICV/CCV

Acquire Date: 1/31/2019 10:50:34PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2541	ppm	0.001763	0.6938	.2500	Rel(%)	Pass	
Al3961		15.31	ppm	0.2635	1.721	15.00	Rel(%)	Pass	
As1890		0.5113	ppm	0.002212	0.4326	.5000	Rel(%)	Pass	
Au2427		81.07	ppm	0.4832	0.5960				
B_2089		0.5163	ppm	0.009179	1.778	.5000	Rel(%)	Pass	
Ba4934		0.4966	ppm	0.0006200	0.1249	.5000	Rel(%)	Pass	
Be3130		0.5103	ppm	0.002730	0.5351	.5000	Rel(%)	Pass	
Ca3179		15.13	ppm	0.1660	1.097	15.00	Rel(%)	Pass	
Cd2144		0.5178	ppm	0.008609	1.662	.5000	Rel(%)	Pass	
Co2286		0.5219	ppm	0.008560	1.640	.5000	Rel(%)	Pass	
Cr2677		0.5149	ppm	0.0001740	0.03380	.5000	Rel(%)	Pass	
Cu327.39		0.5118	ppm	0.001379	0.2695	.5000	Rel(%)	Pass	
Fe2395		15.48	ppm	0.2334	1.508	15.00	Rel(%)	Pass	
K7694		14.70	ppm	0.2017	1.372	15.00	Rel(%)	Pass	
Mg2790		15.56	ppm	0.1829	1.175	15.00	Rel(%)	Pass	
Mn2576		0.5062	ppm	0.002708	0.5350	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 1/31/2019 10:50:34PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Mo2020		0.5128	ppm	0.001536	0.2995	.5000	Rel(%)	Pass	
Na5895		14.28	ppm	0.1128	0.7900	15.00	Rel(%)	Pass	
Ni2316		0.5180	ppm	0.007516	1.451	.5000	Rel(%)	Pass	
Pb2203		0.5196	ppm	0.009191	1.769	.5000	Rel(%)	Pass	
Sb2068		0.5128	ppm	0.0009080	0.1771	.5000	Rel(%)	Pass	
Se1960		0.5112	ppm	0.001910	0.3736	.5000	Rel(%)	Pass	
Si2124		0.5375	ppm	0.007300	1.358				
Sn1899		0.5131	ppm	0.006033	1.176	.5000	Rel(%)	Pass	
Sr4077		0.5035	ppm	0.005574	1.107	.5000	Rel(%)	Pass	
Ti3361		0.5052	ppm	0.0008840	0.1750	.5000	Rel(%)	Pass	
Tl1908		0.5219	ppm	0.01775	3.400	.5000	Rel(%)	Pass	
V2924		0.5086	ppm	0.001242	0.2441	.5000	Rel(%)	Pass	
Zn2062		0.5201	ppm	0.007956	1.530	.5000	Rel(%)	Pass	
Y371.030		8,290.2	Cts/S	114.67	1.3832				
Y029A		154,670	Cts/S	663.46	0.42894				
Y029R		828.20	Cts/S	4.5138	0.54501				

ICB/CCB

Acquire Date: 1/31/2019 10:55:18PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280	**F**	**0.002195**	**ppm**	**0.001087**	**49.52**	**.0000**	**Abs**	**Fail High**	**.0020**
Al3961		0.09316	ppm	0.02635	28.29	.0000	Abs	Pass	
As1890		0.00009100	ppm	0.001163	1,276	.0000	Abs	Pass	
Au2427		0.7379	ppm	0.1850	25.06				
B_2089		0.001092	ppm	0.0003280	30.00	.0000	Abs	Pass	
Ba4934		-0.001621	ppm	0.005841	360.3	.0000	Abs	Pass	
Be3130		0.0001710	ppm	0.0005720	333.9	.0000	Abs	Pass	
Ca3179		-0.03865	ppm	0.01351	34.96	.0000	Abs	Pass	
Cd2144		0.0008600	ppm	0.000004000	0.5120	.0000	Abs	Pass	
Co2286		0.001137	ppm	0.0003440	30.27	.0000	Abs	Pass	
Cr2677		0.001594	ppm	0.0003840	24.07	.0000	Abs	Pass	
Cu327.39		-0.0001950	ppm	0.000009000	4.765	.0000	Abs	Pass	
Fe2395		0.05169	ppm	0.01074	20.79	.0000	Abs	Pass	
K7694		-0.1136	ppm	0.2281	200.8	.0000	Abs	Pass	
Mg2790		-0.02863	ppm	0.1420	496.1	.0000	Abs	Pass	
Mn2576		0.003123	ppm	0.00004800	1.524	.0000	Abs	Pass	
Mo2020		0.0009500	ppm	0.00005100	5.401	.0000	Abs	Pass	
Na5895		-0.04496	ppm	0.07302	162.4	.0000	Abs	Pass	
Ni2316		0.001860	ppm	0.0002850	15.32	.0000	Abs	Pass	
Pb2203		0.002237	ppm	0.0006210	27.75	.0000	Abs	Pass	
Sb2068		-0.0006300	ppm	0.0008300	131.8	.0000	Abs	Pass	
Se1960		0.001500	ppm	0.003451	230.1	.0000	Abs	Pass	
Si2124		0.004613	ppm	0.001420	30.77				
Sn1899		0.0004140	ppm	0.0002240	54.01	.0000	Abs	Pass	
Sr4077		0.001121	ppm	0.00007100	6.376	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 1/31/2019 10:55:18PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 498

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ti3361		-0.004311	ppm	0.006340	147.0	.0000	Abs	Pass	
Tl1908		0.0009840	ppm	0.001681	170.8	.0000	Abs	Pass	
V2924		0.001955	ppm	0.0001750	8.963	.0000	Abs	Pass	
Zn2062		0.0009280	ppm	0.00002100	2.218	.0000	Abs	Pass	
Y371.030		8,527.3	Cts/S	13.604	0.15953				
Y029A		154,120	Cts/S	265.85	0.17250				
Y029R		774.35	Cts/S	6.7175	0.86750				

Sample Report

Author:

Published: 2/7/2019 7:54:09AM

Notes:

Blank

Acquire Date: 2/6/2019 2:19:30PM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		33.05	Cts/S	1.730	5.234
Al3961		-0.1000	Cts/S	1.273	1,273
As1890		0.5069	Cts/S	1.960	386.6
Au2427		-0.00009600	Cts/S	0.00001700	17.96
B_2089		-0.0007670	Cts/S	0.0002070	27.05
Ba4934		19.93	Cts/S	1.603	8.041
Be3130		-0.4313	Cts/S	1.679	389.4
Ca3179		0.01544	Cts/S	0.001775	11.49
Cd2144		0.0009370	Cts/S	0.00006500	6.917
Co2286		0.001159	Cts/S	0.00006700	5.816
Cr2677		-0.3233	Cts/S	1.339	414.1
Cu327.39		1.675	Cts/S	10.40	620.9
Fe2395		0.002873	Cts/S	0.001425	49.61
K7694		69.44	Cts/S	11.33	16.32
Mg2790		-0.2825	Cts/S	1.234	436.8
Mn2576		59.16	Cts/S	0.3544	0.5992
Mo2020		0.6675	Cts/S	1.081	161.9
Na5895		0.1322	Cts/S	0.007428	5.618
Ni2316		0.0003860	Cts/S	0.0001300	33.76
Pb2203		-0.0003800	Cts/S	0.00002700	7.001
Sb2068		-0.1960	Cts/S	1.062	542.0
Se1960		-0.0007130	Cts/S	0.000004000	0.5826
Si2124		0.01549	Cts/S	0.0002000	1.293
Sn1899		-0.00001300	Cts/S	0.00002800	209.2
Sr4077		-6.563	Cts/S	3.864	58.89
Ti3361		0.00003000	Cts/S	0.000002000	7.607
Tl1908		0.9239	Cts/S	1.229	133.0
V2924		25.55	Cts/S	1.705	6.675
Zn2062		0.0009590	Cts/S	0.00007200	7.558
Y371.030		8,200.4	Cts/S	59.792	0.72913
Y029A		142,020	Cts/S	1,519.2	1.0697
Y029R		538.59	Cts/S	3.5179	0.65316

CAL STD.

Acquire Date: 2/6/2019 2:24:22PM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		5,044	Cts/S	4.792	0.09501
Al3961		840.3	Cts/S	7.240	0.8616
As1890		569.7	Cts/S	4.556	0.7997

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

CAL STD.

Acquire Date: 2/6/2019 2:24:22PM Sample Type: Standard

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Au2427		-0.0002160	Cts/S	0.00001500	6.752
B_2089		0.2678	Cts/S	0.01606	5.997
Ba4934		1,805	Cts/S	19.10	1.058
Be3130		2,515	Cts/S	23.38	0.9296
Ca3179		2.713	Cts/S	0.02870	1.058
Cd2144		3.134	Cts/S	0.1963	6.263
Co2286		0.9692	Cts/S	0.06293	6.493
Cr2677		16,610	Cts/S	2.562	0.01542
Cu327.39		13,120	Cts/S	17.90	0.1364
Fe2395		0.7483	Cts/S	0.005024	0.6714
K7694		536.0	Cts/S	2.469	0.4606
Mg2790		76.45	Cts/S	1.967	2.573
Mn2576		50,660	Cts/S	17.70	0.03494
Mo2020		2,802	Cts/S	32.45	1.158
Na5895		5.716	Cts/S	0.03544	0.6201
Ni2316		0.5665	Cts/S	0.03550	6.267
Pb2203		0.1296	Cts/S	0.007787	6.008
Sb2068		447.5	Cts/S	4.239	0.9474
Se1960		0.03507	Cts/S	0.002275	6.487
Si2124		11.07	Cts/S	0.1436	1.297
Sn1899		0.2328	Cts/S	0.01517	6.516
Sr4077		4,821	Cts/S	15.13	0.3139
Ti3361		0.001669	Cts/S	0.000004000	0.2103
Tl1908		295.8	Cts/S	3.615	1.222
V2924		19,970	Cts/S	12.98	0.06500
Zn2062		1.059	Cts/S	0.06778	6.400
Y371.030		8,146.1	Cts/S	431.46	5.2965
Y029A		136,460	Cts/S	542.89	0.39782
Y029R		538.70	Cts/S	0.95191	0.17670

STD 1

Acquire Date: 2/6/2019 2:29:06PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.5067	ppm	0.004051	0.7995	.5000	Rel(%)	Pass	
Al3961		20.11	ppm	0.1230	0.6115	20.00	Rel(%)	Pass	
As1890		1.000	ppm	0.007325	0.7323	1.000	Rel(%)	Pass	
Au2427	**F**	**0.4876**	**ppm**	**0.2602**	**53.37**	**1.000**	**Rel(%)**	**Fail Low**	**-5.000**
B_2089		0.9980	ppm	0.0008690	0.08703	1.000	Rel(%)	Pass	
Ba4934		1.025	ppm	0.001161	0.1132	1.000	Rel(%)	Pass	
Be3130		0.9672	ppm	0.005368	0.5550	1.000	Rel(%)	Pass	
Ca3179		20.76	ppm	0.5854	2.819	20.00	Rel(%)	Pass	
Cd2144		1.008	ppm	0.002021	0.2004	1.000	Rel(%)	Pass	
Co2286		1.004	ppm	0.001912	0.1904	1.000	Rel(%)	Pass	
Cr2677		0.9956	ppm	0.004044	0.4062	1.000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

STD 1

Acquire Date: 2/6/2019 2:29:06PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Cu327.39		1.015	ppm	0.008404	0.8282	1.000	Rel(%)	Pass	
Fe2395		20.13	ppm	0.6310	3.135	20.00	Rel(%)	Pass	
K7694		20.44	ppm	0.4653	2.276	20.00	Rel(%)	Pass	
Mg2790		20.56	ppm	0.3945	1.919	20.00	Rel(%)	Pass	
Mn2576		1.040	ppm	0.004168	0.4007	1.000	Rel(%)	Pass	
Mo2020		1.006	ppm	0.003521	0.3499	1.000	Rel(%)	Pass	
Na5895	**F**	**21.20**	**ppm**	**0.5001**	**2.359**	**20.00**	**Rel(%)**	**Fail High**	**5.000**
Ni2316		1.024	ppm	0.0002810	0.02741	1.000	Rel(%)	Pass	
Pb2203		1.014	ppm	0.00008700	0.008536	1.000	Rel(%)	Pass	
Sb2068		0.9952	ppm	0.0003490	0.03504	1.000	Rel(%)	Pass	
Se1960		1.024	ppm	0.008460	0.8261	1.000	Rel(%)	Pass	
Si2124		9.892	ppm	0.2084	2.106	10.00	Rel(%)	Pass	
Sn1899		1.015	ppm	0.001194	0.1176	1.000	Rel(%)	Pass	
Sr4077		1.004	ppm	0.005987	0.5962	1.000	Rel(%)	Pass	
Ti3361		0.9976	ppm	0.007850	0.7869	1.000	Rel(%)	Pass	
Tl1908		0.9976	ppm	0.001020	0.1022	1.000	Rel(%)	Pass	
V2924		1.000	ppm	0.005443	0.5441	1.000	Rel(%)	Pass	
Zn2062		1.020	ppm	0.0002060	0.02019	1.000	Rel(%)	Pass	
Y371.030		7,921.9	Cts/S	21.901	0.27646				
Y029A		137,970	Cts/S	1,784.8	1.2936				
Y029R		530.48	Cts/S	14.265	2.6891				

ICV/CCV

Acquire Date: 2/6/2019 2:33:50PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2569	ppm	0.0004380	0.1703	.2500	Rel(%)	Pass	
Al3961		14.71	ppm	0.3446	2.343	15.00	Rel(%)	Pass	
As1890		0.4987	ppm	0.002671	0.5355	.5000	Rel(%)	Pass	
Au2427		-84.32	ppm	2.361	2.800				
B_2089		0.4954	ppm	0.0007390	0.1492	.5000	Rel(%)	Pass	
Ba4934		0.5049	ppm	0.01312	2.598	.5000	Rel(%)	Pass	
Be3130		0.4832	ppm	0.01920	3.973	.5000	Rel(%)	Pass	
Ca3179		15.00	ppm	2.337	15.58	15.00	Rel(%)	Pass	
Cd2144		0.5038	ppm	0.0001740	0.03451	.5000	Rel(%)	Pass	
Co2286		0.5034	ppm	0.0001350	0.02690	.5000	Rel(%)	Pass	
Cr2677		0.5011	ppm	0.002364	0.4718	.5000	Rel(%)	Pass	
Cu327.39		0.5104	ppm	0.002027	0.3972	.5000	Rel(%)	Pass	
Fe2395		14.67	ppm	2.012	13.71	15.00	Rel(%)	Pass	
K7694		14.65	ppm	0.2762	1.885	15.00	Rel(%)	Pass	
Mg2790		15.10	ppm	0.1684	1.115	15.00	Rel(%)	Pass	
Mn2576		0.5239	ppm	0.003033	0.5790	.5000	Rel(%)	Pass	
Mo2020		0.5036	ppm	0.0003890	0.07726	.5000	Rel(%)	Pass	
Na5895		14.93	ppm	2.221	14.88	15.00	Rel(%)	Pass	
Ni2316		0.5207	ppm	0.0005610	0.1078	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/6/2019 2:33:50PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Pb2203		0.5120	ppm	0.002281	0.4454	.5000	Rel(%)	Pass	
Sb2068		0.4973	ppm	0.0005350	0.1076	.5000	Rel(%)	Pass	
Se1960		0.5138	ppm	0.003465	0.6745	.5000	Rel(%)	Pass	
Si2124		0.4907	ppm	0.06377	12.99				
Sn1899		0.5108	ppm	0.001458	0.2854	.5000	Rel(%)	Pass	
Sr4077		0.4924	ppm	0.01348	2.738	.5000	Rel(%)	Pass	
Ti3361		0.5147	ppm	0.008537	1.659	.5000	Rel(%)	Pass	
Tl1908		0.5034	ppm	0.001446	0.2873	.5000	Rel(%)	Pass	
V2924		0.5003	ppm	0.002218	0.4433	.5000	Rel(%)	Pass	
Zn2062		0.5116	ppm	0.0002640	0.05153	.5000	Rel(%)	Pass	
Y371.030		7,879.5	Cts/S	3.1252	0.039663				
Y029A		135,850	Cts/S	3,167.2	2.3314				
Y029R		551.93	Cts/S	68.926	12.488				

ICB/CCB

Acquire Date: 2/6/2019 2:38:33PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0003750	ppm	0.002416	643.9	.0000	Abs	Pass	
Al3961		-0.06071	ppm	0.01515	24.95	.0000	Abs	Pass	
As1890		0.001122	ppm	0.0001810	16.14	.0000	Abs	Pass	
Au2427		-0.1099	ppm	0.006841	6.223				
B_2089		0.001498	ppm	0.0002470	16.47	.0000	Abs	Pass	
Ba4934		0.003876	ppm	0.003209	82.81	.0000	Abs	Pass	
Be3130		0.001594	ppm	0.0006130	38.47	.0000	Abs	Pass	
Ca3179		-0.01418	ppm	0.03154	222.4	.0000	Abs	Pass	
Cd2144		0.0009760	ppm	0.000004000	0.4021	.0000	Abs	Pass	
Co2286		0.001221	ppm	0.0002630	21.57	.0000	Abs	Pass	
Cr2677		0.001176	ppm	0.0006320	53.75	.0000	Abs	Pass	
Cu327.39		0.002730	ppm	0.001111	40.71	.0000	Abs	Pass	
Fe2395		-0.001271	ppm	0.003088	242.9	.0000	Abs	Pass	
K7694		-0.1430	ppm	0.4440	310.4	.0000	Abs	Pass	
Mg2790		-0.01303	ppm	0.2091	1,606	.0000	Abs	Pass	
Mn2576		0.001181	ppm	0.0004350	36.85	.0000	Abs	Pass	
Mo2020		0.001256	ppm	0.0001810	14.39	.0000	Abs	Pass	
Na5895		-0.1182	ppm	0.06085	51.49	.0000	Abs	Pass	
Ni2316		0.0006960	ppm	0.0002010	28.86	.0000	Abs	Pass	
Pb2203		0.001152	ppm	0.00001800	1.570	.0000	Abs	Pass	
Sb2068		0.0005670	ppm	0.001540	271.4	.0000	Abs	Pass	
Se1960		-0.0003350	ppm	0.0004130	123.3	.0000	Abs	Pass	
Si2124		0.005622	ppm	0.003335	59.31				
Sn1899		0.0004650	ppm	0.0001440	30.92	.0000	Abs	Pass	
Sr4077		0.002026	ppm	0.0008390	41.42	.0000	Abs	Pass	
Ti3361		0.003318	ppm	0.00006500	1.968	.0000	Abs	Pass	
Tl1908		0.001782	ppm	0.001045	58.63	.0000	Abs	Pass	
V2924		0.001732	ppm	0.0008400	48.51	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/6/2019 2:38:33PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Zn2062		-0.00006900	ppm	0.00005400	78.64	.0000	Abs	Pass	
Y371.030		8,289.9	Cts/S	44.576	0.53772				
Y029A		144,840	Cts/S	434.24	0.29981				
Y029R		548.45	Cts/S	2.6870	0.48993				

CRI

Acquire Date: 2/6/2019 2:43:28PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.01200	ppm	0.0004450	3.712	.0100	Abs	Pass	
Al3961		0.3891	ppm	0.02693	6.921	.4000	Abs	Pass	
As1890		0.01138	ppm	0.0009100	7.991	.0100	Abs	Pass	
Au2427		-3.212	ppm	0.1044	3.252				
B_2089	**F**	**0.1681**	**ppm**	**0.0001240**	**0.07399**	**.1000**	**Abs**	**Fail High**	**.1500**
Ba4934		0.009068	ppm	0.001730	19.08	.0100	Abs	Pass	
Be3130		0.005187	ppm	0.0002280	4.403	.0040	Abs	Pass	
Ca3179		0.3819	ppm	0.003713	0.9724	.4000	Abs	Pass	
Cd2144		0.004926	ppm	0.0003240	6.586	.0040	Abs	Pass	
Co2286		0.004991	ppm	0.0003210	6.432	.0040	Abs	Pass	
Cr2677		0.02321	ppm	0.0003350	1.445	.0200	Abs	Pass	
Cu327.39		0.04590	ppm	0.0003570	0.7779	.0400	Abs	Pass	
Fe2395		0.5593	ppm	0.03395	6.069	.6000	Abs	Pass	
K7694		1.738	ppm	0.08043	4.627	2.000	Abs	Pass	
Mg2790		0.3447	ppm	0.2377	68.96	.4000	Abs	Pass	
Mn2576		0.04565	ppm	0.00004500	0.09908	.0400	Abs	Pass	
Mo2020		0.02198	ppm	0.0002740	1.249	.0200	Abs	Pass	
Na5895		1.010	ppm	0.01318	1.304	.4000	Abs	Pass	
Ni2316		0.02153	ppm	0.0001470	0.6805	.0200	Abs	Pass	
Pb2203		0.01221	ppm	0.001916	15.69	.0100	Abs	Pass	
Sb2068		0.02302	ppm	0.001548	6.726	.0200	Abs	Pass	
Se1960		0.04322	ppm	0.0007130	1.649	.0400	Abs	Pass	
Si2124		1.119	ppm	0.04097	3.661				
Sn1899		0.02182	ppm	0.0001320	0.6057	.0200	Abs	Pass	
Sr4077		0.01213	ppm	0.0001470	1.210	.0100	Abs	Pass	
Ti3361		0.02450	ppm	0.001098	4.484	.0200	Abs	Pass	
Tl1908		0.02212	ppm	0.001603	7.243	.0200	Abs	Pass	
V2924		0.02342	ppm	0.0004610	1.970	.0200	Abs	Pass	
Zn2062		0.04289	ppm	0.0002230	0.5196	.0400	Abs	Pass	
Y371.030		8,410.8	Cts/S	21.263	0.25281				
Y029A		133,050	Cts/S	6,123.0	4.6020				
Y029R		558.06	Cts/S	20.913	3.7474				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSA

Acquire Date: 2/6/2019 2:48:21PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.001156	ppm	0.0002980	25.83	.0000	Abs	Pass	
Al3961		517.9	ppm	3.345	0.6459	500.0	Abs	Pass	
As1890		-0.002865	ppm	0.00007000	2.431	.0000	Abs	Pass	
Au2427		-21.22	ppm	0.6255	2.948				
B_2089		-0.006401	ppm	0.0002430	3.792	.0000	Abs	Pass	
Ba4934		0.001622	ppm	0.001386	85.41	.0000	Abs	Pass	
Be3130		0.00002600	ppm	0.0002820	1,080	.0000	Abs	Pass	
Ca3179		537.2	ppm	2.460	0.4579	500.0	Abs	Pass	
Cd2144		0.0001640	ppm	0.00003300	19.91	.0000	Abs	Pass	
Co2286		0.001080	ppm	0.00005000	4.651	.0000	Abs	Pass	
Cr2677		0.001638	ppm	0.00003100	1.904	.0000	Abs	Pass	
Cu327.39		-0.007240	ppm	0.0003270	4.516	.0000	Abs	Pass	
Fe2395		510.5	ppm	5.701	1.117	500.0	Abs	Pass	
K7694		1.255	ppm	0.1117	8.899	.0000	Abs	Pass	
Mg2790		512.1	ppm	4.582	0.8948	500.0	Abs	Pass	
Mn2576		0.006011	ppm	0.0002420	4.020	.0000	Abs	Pass	
Mo2020		0.003904	ppm	0.0002260	5.791	.0000	Abs	Pass	
Na5895		0.6266	ppm	0.0009980	0.1593	.0000	Abs	Pass	
Ni2316		-0.008764	ppm	0.0001790	2.040	.0000	Abs	Pass	
Pb2203		-0.0002130	ppm	0.001763	826.8	.0000	Abs	Pass	
Sb2068		0.0002200	ppm	0.003417	1,551	.0000	Abs	Pass	
Se1960		0.0008680	ppm	0.004347	500.9	.0000	Abs	Pass	
Si2124		0.02487	ppm	0.0001830	0.7373				
Sn1899		0.0001470	ppm	0.001002	679.6	.0000	Abs	Pass	
Sr4077		-0.001999	ppm	0.0004150	20.75	.0000	Abs	Pass	
Ti3361		-0.002252	ppm	0.003535	157.0	.0000	Abs	Pass	
Tl1908		-0.0003330	ppm	0.0001460	43.80	.0000	Abs	Pass	
V2924		0.006197	ppm	0.0001240	2.009	.0000	Abs	Pass	
Zn2062		0.003873	ppm	0.0001650	4.264	.0000	Abs	Pass	
Y371.030		6,717.7	Cts/S	12.182	0.18134				
Y029A		115,040	Cts/S	39.405	0.034254				
Y029R		500.11	Cts/S	2.0275	0.40540				

ICSAB

Acquire Date: 2/6/2019 2:53:07PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.1274	ppm	0.0003860	0.3034	.1250	Rel(%)	Pass	
Al3961		521.8	ppm	5.501	1.054	500.0	Rel(%)	Pass	
As1890		0.2368	ppm	0.0004250	0.1796	.2500	Rel(%)	Pass	
Au2427		-19.59	ppm	0.1178	0.6015				
B_2089		0.2601	ppm	0.0003480	0.1336	.2500	Rel(%)	Pass	
Ba4934		0.2707	ppm	0.004714	1.741	.2500	Rel(%)	Pass	
Be3130		0.2445	ppm	0.003391	1.387	.2500	Rel(%)	Pass	
Ca3179		533.5	ppm	0.04566	0.008559	500.0	Rel(%)	Pass	
Cd2144		0.2631	ppm	0.0004100	0.1559	.2500	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICSAB

Acquire Date: 2/6/2019 2:53:07PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Co2286		0.2605	ppm	0.0003280	0.1261	.2500	Rel(%)	Pass	
Cr2677		0.2289	ppm	0.0007110	0.3106	.2500	Rel(%)	Pass	
Cu327.39		0.2394	ppm	0.002724	1.138	.2500	Rel(%)	Pass	
Fe2395		503.2	ppm	2.758	0.5480	500.0	Rel(%)	Pass	
K7694		1.241	ppm	0.4032	32.48				
Mg2790		524.5	ppm	2.533	0.4830	500.0	Rel(%)	Pass	
Mn2576		0.2437	ppm	0.00003000	0.01222	.2500	Rel(%)	Pass	
Mo2020		0.2346	ppm	0.0001650	0.07043	.2500	Rel(%)	Pass	
Na5895		0.6218	ppm	0.03720	5.983				
Ni2316		0.2547	ppm	0.001595	0.6260	.2500	Rel(%)	Pass	
Pb2203		0.2569	ppm	0.001201	0.4677	.2500	Rel(%)	Pass	
Sb2068		0.2369	ppm	0.001159	0.4894	.2500	Rel(%)	Pass	
Se1960		0.2866	ppm	0.001708	0.5959	.2500	Rel(%)	Pass	
Si2124		0.2630	ppm	0.0008260	0.3140				
Sn1899		0.2637	ppm	0.001128	0.4277	.2500	Rel(%)	Pass	
Sr4077		0.2605	ppm	0.002766	1.062	.2500	Rel(%)	Pass	
Ti3361	**F**	**0.3029**	**ppm**	**0.003646**	**1.204**	**.2500**	**Rel(%)**	**Fail High**	**20.00**
Tl1908		0.2137	ppm	0.002737	1.281	.2500	Rel(%)	Pass	
V2924		0.2407	ppm	0.0008010	0.3330	.2500	Rel(%)	Pass	
Zn2062		0.2710	ppm	0.00006300	0.02336	.2500	Rel(%)	Pass	
Y371.030		6,540.8	Cts/S	9.7408	0.14892				
Y029A		115,820	Cts/S	15.834	0.013671				
Y029R		510.93	Cts/S	4.0868	0.79987				

ICV/CCV

Acquire Date: 2/6/2019 2:57:50PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2536	ppm	0.00003400	0.01324	.2500	Rel(%)	Pass	
Al3961		15.71	ppm	0.5380	3.425	15.00	Rel(%)	Pass	
As1890		0.5064	ppm	0.001605	0.3169	.5000	Rel(%)	Pass	
Au2427		-82.98	ppm	0.6984	0.8416				
B_2089		0.4946	ppm	0.001524	0.3081	.5000	Rel(%)	Pass	
Ba4934		0.5045	ppm	0.007382	1.463	.5000	Rel(%)	Pass	
Be3130		0.4856	ppm	0.003161	0.6510	.5000	Rel(%)	Pass	
Ca3179	**W**	**15.89**	**ppm**	**0.2651**	**1.669**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Cd2144		0.5015	ppm	0.001391	0.2773	.5000	Rel(%)	Pass	
Co2286		0.5014	ppm	0.001210	0.2412	.5000	Rel(%)	Pass	
Cr2677		0.5004	ppm	0.001907	0.3811	.5000	Rel(%)	Pass	
Cu327.39		0.5090	ppm	0.003540	0.6955	.5000	Rel(%)	Pass	
Fe2395	**W**	**15.83**	**ppm**	**0.4649**	**2.936**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
K7694		14.89	ppm	0.3724	2.502	15.00	Rel(%)	Pass	
Mg2790	**W**	**16.50**	**ppm**	**0.3309**	**2.006**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mn2576		0.5225	ppm	0.0002110	0.04038	.5000	Rel(%)	Pass	
Mo2020		0.5092	ppm	0.001450	0.2847	.5000	Rel(%)	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICV/CCV

Acquire Date: 2/6/2019 2:57:50PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Na5895		15.16	ppm	0.05096	0.3361	15.00	Rel(%)	Pass	
Ni2316		0.5169	ppm	0.0003560	0.06880	.5000	Rel(%)	Pass	
Pb2203		0.5100	ppm	0.0005160	0.1012	.5000	Rel(%)	Pass	
Sb2068		0.5038	ppm	0.001077	0.2138	.5000	Rel(%)	Pass	
Se1960		0.5142	ppm	0.0001320	0.02567	.5000	Rel(%)	Pass	
Si2124		0.4896	ppm	0.008803	1.798				
Sn1899		0.5088	ppm	0.001904	0.3743	.5000	Rel(%)	Pass	
Sr4077		0.4958	ppm	0.0009860	0.1988	.5000	Rel(%)	Pass	
Ti3361		0.4928	ppm	0.01079	2.188	.5000	Rel(%)	Pass	
Tl1908		0.5102	ppm	0.002284	0.4477	.5000	Rel(%)	Pass	
V2924		0.5004	ppm	0.002187	0.4370	.5000	Rel(%)	Pass	
Zn2062		0.5092	ppm	0.0002660	0.05223	.5000	Rel(%)	Pass	
Y371.030		8,038.4	Cts/S	22.040	0.27419				
Y029A		139,030	Cts/S	807.45	0.58079				
Y029R		548.91	Cts/S	4.2057	0.76620				

ICB/CCB

Acquire Date: 2/6/2019 3:02:32PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.001342	ppm	0.0008680	64.70	.0000	Abs	Pass	
Al3961	**F**	**0.7766**	**ppm**	**0.4149**	**53.43**	**.0000**	**Abs**	**Fail High**	**.2000**
As1890		0.0004640	ppm	0.0004850	104.6	.0000	Abs	Pass	
Au2427		-0.1995	ppm	0.1725	86.51				
B_2089		0.0009520	ppm	0.0007030	73.82	.0000	Abs	Pass	
Ba4934		0.0007000	ppm	0.0009370	134.0	.0000	Abs	Pass	
Be3130		0.0008520	ppm	0.0007620	89.47	.0000	Abs	Pass	
Ca3179	**F**	**0.7588**	**ppm**	**0.3996**	**52.66**	**.0000**	**Abs**	**Fail High**	**.2000**
Cd2144		0.0005170	ppm	0.00006000	11.52	.0000	Abs	Pass	
Co2286		0.0004050	ppm	0.00007600	18.73	.0000	Abs	Pass	
Cr2677		0.0006640	ppm	0.0008100	121.9	.0000	Abs	Pass	
Cu327.39		-0.00003400	ppm	0.0001030	303.2	.0000	Abs	Pass	
Fe2395	**F**	**0.8047**	**ppm**	**0.4235**	**52.63**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		-0.1571	ppm	0.03311	21.07	.0000	Abs	Pass	
Mg2790	**F**	**0.6267**	**ppm**	**0.9149**	**146.0**	**.0000**	**Abs**	**Fail High**	**.2000**
Mn2576		0.00009600	ppm	0.0005530	577.7	.0000	Abs	Pass	
Mo2020		0.0005140	ppm	0.00003000	5.767	.0000	Abs	Pass	
Na5895		-0.01165	ppm	0.06109	524.5	.0000	Abs	Pass	
Ni2316		0.0008160	ppm	0.0001890	23.12	.0000	Abs	Pass	
Pb2203		0.0006630	ppm	0.0008380	126.5	.0000	Abs	Pass	
Sb2068		0.0006580	ppm	0.0006270	95.38	.0000	Abs	Pass	
Se1960		0.0007020	ppm	0.003130	445.8	.0000	Abs	Pass	
Si2124		-0.001282	ppm	0.0005570	43.43				
Sn1899		-0.00001400	ppm	0.00009500	697.5	.0000	Abs	Pass	
Sr4077		0.0008020	ppm	0.0007760	96.74	.0000	Abs	Pass	
Ti3361		0.007876	ppm	0.006574	83.47	.0000	Abs	Pass	

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/6/2019 3:02:32PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Tl1908		0.0003540	ppm	0.0007680	217.1	.0000	Abs	Pass	
V2924		0.0008250	ppm	0.0006060	73.48	.0000	Abs	Pass	
Zn2062		-0.0004780	ppm	0.00005900	12.26	.0000	Abs	Pass	
Y371.030		8,407.8	Cts/S	24.678	0.29351				
Y029A		144,950	Cts/S	282.25	0.19472				
Y029R		527.10	Cts/S	28.709	5.4465				

ICV/CCV

Acquire Date: 2/6/2019 6:33:49PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2564	ppm	0.001445	0.5635	.2500	Rel(%)	Pass	
Al3961		14.51	ppm	0.1284	0.8853	15.00	Rel(%)	Pass	
As1890		0.5068	ppm	0.0004080	0.08050	.5000	Rel(%)	Pass	
Au2427		-79.54	ppm	0.08567	0.1077				
B_2089		0.4970	ppm	0.001717	0.3455	.5000	Rel(%)	Pass	
Ba4934		0.4936	ppm	0.009809	1.987	.5000	Rel(%)	Pass	
Be3130		0.4750	ppm	0.002605	0.5484	.5000	Rel(%)	Pass	
Ca3179		15.17	ppm	0.03885	0.2561	15.00	Rel(%)	Pass	
Cd2144		0.5001	ppm	0.001918	0.3835	.5000	Rel(%)	Pass	
Co2286		0.5009	ppm	0.001945	0.3884	.5000	Rel(%)	Pass	
Cr2677		0.5108	ppm	0.004085	0.7998	.5000	Rel(%)	Pass	
Cu327.39		0.5125	ppm	0.003303	0.6445	.5000	Rel(%)	Pass	
Fe2395		14.55	ppm	0.05361	0.3684	15.00	Rel(%)	Pass	
K7694		15.57	ppm	0.5368	3.447	15.00	Rel(%)	Pass	
Mg2790		14.48	ppm	0.02439	0.1684	15.00	Rel(%)	Pass	
Mn2576		0.5123	ppm	0.004376	0.8542	.5000	Rel(%)	Pass	
Mo2020		0.5114	ppm	0.001405	0.2748	.5000	Rel(%)	Pass	
Na5895	**F**	**22.15**	**ppm**	**1.915**	**8.644**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
Ni2316		0.4999	ppm	0.001658	0.3317	.5000	Rel(%)	Pass	
Pb2203		0.5024	ppm	0.004152	0.8265	.5000	Rel(%)	Pass	
Sb2068		0.5092	ppm	0.001486	0.2918	.5000	Rel(%)	Pass	
Se1960		0.5030	ppm	0.0005820	0.1157	.5000	Rel(%)	Pass	
Si2124		0.5392	ppm	0.0002620	0.04852				
Sn1899		0.4986	ppm	0.001155	0.2316	.5000	Rel(%)	Pass	
Sr4077		0.4860	ppm	0.002929	0.6028	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.4630**	**ppm**	**0.003709**	**0.8009**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Tl1908		0.5131	ppm	0.0003210	0.06258	.5000	Rel(%)	Pass	
V2924		0.5116	ppm	0.003844	0.7514	.5000	Rel(%)	Pass	
Zn2062		0.5012	ppm	0.001731	0.3453	.5000	Rel(%)	Pass	
Y371.030		8,354.7	Cts/S	54.044	0.64687				
Y029A		142,380	Cts/S	317.39	0.22293				
Y029R		526.72	Cts/S	4.2745	0.81153				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/6/2019 6:38:33PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0009030	ppm	0.002211	244.7	.0000	Abs	Pass	
Al3961		-0.03392	ppm	0.1153	339.9	.0000	Abs	Pass	
As1890		0.0009580	ppm	0.002647	276.4	.0000	Abs	Pass	
Au2427		0.1197	ppm	0.1861	155.5				
B_2089		0.001571	ppm	0.0002770	17.66	.0000	Abs	Pass	
Ba4934		0.0008220	ppm	0.003011	366.4	.0000	Abs	Pass	
Be3130		0.001190	ppm	0.0004290	36.02	.0000	Abs	Pass	
Ca3179	**F**	**0.2927**	**ppm**	**0.1331**	**45.46**	**.0000**	**Abs**	**Fail High**	**.2000**
Cd2144		0.0006660	ppm	0.0005190	77.98	.0000	Abs	Pass	
Co2286		0.0007400	ppm	0.0006160	83.30	.0000	Abs	Pass	
Cr2677		0.0003070	ppm	0.0003030	98.61	.0000	Abs	Pass	
Cu327.39		0.001698	ppm	0.001172	69.04	.0000	Abs	Pass	
Fe2395		0.01666	ppm	0.003264	19.60	.0000	Abs	Pass	
K7694		0.2213	ppm	0.1833	82.82	.0000	Abs	Pass	
Mg2790		0.1792	ppm	0.03686	20.57	.0000	Abs	Pass	
Mn2576		0.0002420	ppm	0.0002860	118.3	.0000	Abs	Pass	
Mo2020		0.0009750	ppm	0.0004270	43.74	.0000	Abs	Pass	
Na5895	**F**	**5.312**	**ppm**	**0.8148**	**15.34**	**.0000**	**Abs**	**Fail High**	**.5000**
Ni2316		0.0002070	ppm	0.0002770	134.0	.0000	Abs	Pass	
Pb2203		0.0004200	ppm	0.002283	542.9	.0000	Abs	Pass	
Sb2068		0.001697	ppm	0.003195	188.2	.0000	Abs	Pass	
Se1960		0.001187	ppm	0.003387	285.2	.0000	Abs	Pass	
Si2124		0.005132	ppm	0.002842	55.38				
Sn1899		0.0001120	ppm	0.0008000	714.4	.0000	Abs	Pass	
Sr4077		0.002382	ppm	0.001251	52.53	.0000	Abs	Pass	
Ti3361		-0.001103	ppm	0.005550	503.3	.0000	Abs	Pass	
Tl1908		0.002079	ppm	0.0004720	22.69	.0000	Abs	Pass	
V2924		0.0009850	ppm	0.0004930	50.08	.0000	Abs	Pass	
Zn2062		-0.0003480	ppm	0.0005770	165.7	.0000	Abs	Pass	
Y371.030		8,487.9	Cts/S	35.918	0.42316				
Y029A		147,610	Cts/S	1,191.7	0.80737				
Y029R		529.45	Cts/S	1.8031	0.34057				

mb 720-259902/1-a

Acquire Date: 2/6/2019 7:02:12PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001707	ppm	0.0008620	50.53
Al3961		-0.05534	ppm	0.04292	77.56
As1890		0.001474	ppm	0.0002650	17.99
Au2427		-0.04757	ppm	0.3269	687.1
B_2089		-0.0006710	ppm	0.0009170	136.7
Ba4934		-0.002727	ppm	0.001030	37.78
Be3130		0.00004000	ppm	0.0005130	1,291
Ca3179		0.004311	ppm	0.01859	431.3
Cd2144		0.0000	ppm	0.00008700	23,480

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

mb 720-259902/1-a

Acquire Date: 2/6/2019 7:02:12PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		-0.00008000	ppm	0.000004000	5.504
Cr2677		-0.0003000	ppm	0.0001720	57.38
Cu327.39		0.0003120	ppm	0.001056	338.1
Fe2395		-0.05644	ppm	0.007195	12.75
K7694		0.1056	ppm	0.03644	34.50
Mg2790		0.1603	ppm	0.1373	85.66
Mn2576		-0.0007620	ppm	0.00006600	8.648
Mo2020		-0.0002720	ppm	0.0002680	98.60
Na5895		1.344	ppm	0.001073	0.07985
Ni2316		-0.0001540	ppm	0.0001110	72.09
Pb2203		-0.0006160	ppm	0.0001760	28.59
Sb2068		-0.0004740	ppm	0.001456	307.4
Se1960		0.002904	ppm	0.002050	70.60
Si2124		0.002464	ppm	0.0005780	23.47
Sn1899		-0.0007920	ppm	0.0005920	74.75
Sr4077		-0.0001030	ppm	0.0005210	504.8
Ti3361		-0.001381	ppm	0.004573	331.0
Tl1908		-0.001227	ppm	0.0008840	72.07
V2924		0.0001210	ppm	0.00005500	45.50
Zn2062		-0.0006160	ppm	0.0002020	32.71
Y371.030		8,349.1	Cts/S	143.06	1.7135
Y029A		144,420	Cts/S	487.57	0.33761
Y029R		519.08	Cts/S	2.8991	0.55852

lcs 720-259902/2-a

Acquire Date: 2/6/2019 7:07:03PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.5994	ppm	0.003628	0.6053
Al3961		9.352	ppm	0.1953	2.088
As1890		0.9679	ppm	0.002715	0.2805
Au2427		1.144	ppm	0.3520	30.75
B_2089		0.9640	ppm	0.0002170	0.02250
Ba4934		0.9649	ppm	0.005283	0.5475
Be3130		0.9169	ppm	0.005224	0.5698
Ca3179		9.706	ppm	0.01420	0.1463
Cd2144		0.9795	ppm	0.002429	0.2480
Co2286		0.9917	ppm	0.002023	0.2040
Cr2677		0.9902	ppm	0.003671	0.3707
Cu327.39		0.9973	ppm	0.003292	0.3301
Fe2395		9.453	ppm	0.03600	0.3808
K7694		9.193	ppm	0.2409	2.621
Mg2790		9.298	ppm	0.1023	1.100
Mn2576		1.013	ppm	0.004603	0.4545

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

lcs 720-259902/2-a

Acquire Date: 2/6/2019 7:07:03PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.9861	ppm	0.0003490	0.03535
Na5895		10.67	ppm	0.1483	1.390
Ni2316		0.9960	ppm	0.001660	0.1666
Pb2203		0.9967	ppm	0.0005440	0.05458
Sb2068		0.9591	ppm	0.005631	0.5871
Se1960		0.9646	ppm	0.0004300	0.04457
Si2124		1.006	ppm	0.009778	0.9716
Sn1899		0.9867	ppm	0.001454	0.1474
Sr4077		0.9479	ppm	0.01224	1.292
Ti3361		0.9114	ppm	0.003434	0.3768
Tl1908		1.001	ppm	0.0003090	0.03089
V2924		0.9864	ppm	0.001959	0.1986
Zn2062		0.9805	ppm	0.004048	0.4128
Y371.030		8,134.0	Cts/S	23.814	0.29277
Y029A		139,400	Cts/S	239.23	0.17161
Y029R		525.91	Cts/S	3.9775	0.75630

lb4 720-259499/1-c

Acquire Date: 2/6/2019 7:11:44PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0002490	ppm	0.0008240	330.5
Al3961		-0.03030	ppm	0.01087	35.88
As1890		0.003386	ppm	0.0004520	13.35
Au2427		0.2382	ppm	0.3525	148.0
B_2089		0.002777	ppm	0.0005830	20.99
Ba4934		0.01798	ppm	0.0004850	2.696
Be3130		0.001086	ppm	0.0008970	82.56
Ca3179		-0.04704	ppm	0.02555	54.32
Cd2144		0.0004230	ppm	0.0002810	66.34
Co2286		0.0005060	ppm	0.00009400	18.61
Cr2677		0.0003620	ppm	0.0001530	42.28
Cu327.39		0.001259	ppm	0.0006650	52.84
Fe2395		-0.06878	ppm	0.02697	39.21
K7694		1.587	ppm	0.1042	6.567
Mg2790		-0.1528	ppm	0.06403	41.92
Mn2576		-0.0004780	ppm	0.0001770	36.90
Mo2020		0.0003610	ppm	0.0001690	46.68
Na5895		924.6	ppm	4.015	0.4342
Ni2316		0.002081	ppm	0.0003510	16.85
Pb2203		-0.0003880	ppm	0.0008030	206.9
Sb2068		0.001982	ppm	0.0009610	48.47
Se1960		0.0004540	ppm	0.0005570	122.8
Si2124		0.003179	ppm	0.001215	38.23
Sn1899		0.0006090	ppm	0.0001560	25.57

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

lb4 720-259499/1-c

Acquire Date: 2/6/2019 7:11:44PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sr4077		0.001221	ppm	0.0004330	35.51
Ti3361		0.003477	ppm	0.002822	81.15
Tl1908		-0.003173	ppm	0.0006500	20.47
V2924		0.0002650	ppm	0.0002870	108.0
Zn2062		0.009158	ppm	0.0001600	1.746
Y371.030		7,421.5	Cts/S	4.9697	0.066963
Y029A		119,110	Cts/S	107.78	0.090489
Y029R		493.96	Cts/S	5.7486	1.1638

720-91082-a-1-v ms

Acquire Date: 2/6/2019 7:16:43PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.5288	ppm	0.002725	0.5153
Al3961		20.29	ppm	0.04003	0.1973
As1890		1.010	ppm	0.003824	0.3787
Au2427		3.139	ppm	0.2384	7.596
B_2089		1.058	ppm	0.0002490	0.02353
Ba4934		1.568	ppm	0.01221	0.7789
Be3130		0.8912	ppm	0.001559	0.1750
Ca3179		273.9	ppm	0.4849	0.1770
Cd2144		0.9915	ppm	0.0001390	0.01398
Co2286		0.9962	ppm	0.0002380	0.02389
Cr2677		0.9281	ppm	0.0004920	0.05304
Cu327.39		1.017	ppm	0.0004280	0.04215
Fe2395		26.04	ppm	0.2538	0.9749
K7694		16.10	ppm	0.4005	2.488
Mg2790		15.34	ppm	0.5321	3.468
Mn2576		2.238	ppm	0.0009950	0.04445
Mo2020		0.8880	ppm	0.002452	0.2761
Na5895		899.7	ppm	1.156	0.1284
Ni2316		1.063	ppm	0.001157	0.1088
Pb2203		1.618	ppm	0.004144	0.2562
Sb2068		0.9307	ppm	0.005409	0.5812
Se1960		1.050	ppm	0.001934	0.1842
Si2124		11.80	ppm	0.05967	0.5057
Sn1899		0.9674	ppm	0.002530	0.2615
Sr4077		1.456	ppm	0.0007420	0.05097
Ti3361		1.420	ppm	0.005882	0.4141
Tl1908		0.8524	ppm	0.001618	0.1899
V2924		0.9639	ppm	0.0007750	0.08037
Zn2062		1.634	ppm	0.001066	0.06525
Y371.030		7,234.7	Cts/S	5.6019	0.077431
Y029A		117,750	Cts/S	53.654	0.045566

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91082-a-1-v ms

Acquire Date: 2/6/2019 7:16:43PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029R		480.78	Cts/S	1.0589	0.22024

720-91082-a-1-w msd

Acquire Date: 2/6/2019 7:21:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.5365	ppm	0.002378	0.4433
Al3961		20.89	ppm	0.04989	0.2389
As1890		0.9958	ppm	0.0007350	0.07376
Au2427		2.922	ppm	0.1624	5.557
B_2089		1.022	ppm	0.002311	0.2261
Ba4934		1.634	ppm	0.001193	0.07302
Be3130		0.8821	ppm	0.0006400	0.07257
Ca3179		263.8	ppm	1.963	0.7440
Cd2144		0.9642	ppm	0.002042	0.2118
Co2286		0.9665	ppm	0.002422	0.2506
Cr2677		0.9080	ppm	0.001175	0.1294
Cu327.39		1.017	ppm	0.002851	0.2802
Fe2395		24.29	ppm	0.2373	0.9769
K7694		16.32	ppm	0.4142	2.538
Mg2790		16.48	ppm	0.4247	2.577
Mn2576		2.293	ppm	0.001000	0.04364
Mo2020		0.8830	ppm	0.001482	0.1678
Na5895		877.4	ppm	7.521	0.8572
Ni2316		1.043	ppm	0.0001870	0.01790
Pb2203		1.584	ppm	0.0008790	0.05548
Sb2068		0.9215	ppm	0.007287	0.7907
Se1960		1.041	ppm	0.002136	0.2052
Si2124		10.86	ppm	0.1220	1.124
Sn1899		0.9418	ppm	0.0002720	0.02893
Sr4077		1.492	ppm	0.002062	0.1382
Ti3361		1.369	ppm	0.01709	1.248
Tl1908		0.8385	ppm	0.003624	0.4322
V2924		0.9474	ppm	0.002827	0.2984
Zn2062		1.612	ppm	0.002974	0.1845
Y371.030		7,287.8	Cts/S	3.0438	0.041765
Y029A		122,930	Cts/S	787.58	0.64066
Y029R		517.57	Cts/S	4.3369	0.83794

720-91082-a-1-u pds

Acquire Date: 2/6/2019 7:26:15PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.4285	ppm	0.0004460	0.1040
Al3961		20.14	ppm	0.04581	0.2275
As1890		0.9742	ppm	0.006337	0.6504
Au2427		2.114	ppm	0.1200	5.680
B_2089		0.9653	ppm	0.007372	0.7637
Ba4934		1.592	ppm	0.02304	1.447
Be3130		0.8281	ppm	0.01099	1.327
Ca3179		238.3	ppm	4.256	1.786
Cd2144		0.9200	ppm	0.005136	0.5583
Co2286		0.9195	ppm	0.005260	0.5721
Cr2677		0.8995	ppm	0.0008190	0.09104
Cu327.39		1.022	ppm	0.001130	0.1105
Fe2395		22.22	ppm	0.09074	0.4084
K7694		15.94	ppm	0.4540	2.849
Mg2790		16.30	ppm	0.04189	0.2570
Mn2576		2.361	ppm	0.007869	0.3332
Mo2020		0.8656	ppm	0.002490	0.2876
Na5895		810.6	ppm	15.12	1.865
Ni2316		1.015	ppm	0.006505	0.6411
Pb2203		1.515	ppm	0.007843	0.5176
Sb2068		0.9080	ppm	0.0007180	0.07912
Se1960		1.009	ppm	0.0007730	0.07663
Si2124		9.484	ppm	0.09700	1.023
Sn1899		0.9070	ppm	0.006003	0.6619
Sr4077		1.433	ppm	0.01346	0.9392
Ti3361		1.279	ppm	0.009941	0.7774
Tl1908		0.8259	ppm	0.002128	0.2576
V2924		0.9400	ppm	0.001251	0.1331
Zn2062		1.556	ppm	0.007902	0.5077
Y371.030		7,316.9	Cts/S	19.505	0.26657
Y029A		128,780	Cts/S	582.10	0.45202
Y029R		561.78	Cts/S	7.2856	1.2969

720-91082-a-1-u sd

Acquire Date: 2/6/2019 7:31:01PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.00007800	ppm	0.001395	1,792
Al3961		2.965	ppm	0.05159	1.740
As1890		0.02253	ppm	0.0002790	1.239
Au2427		0.7582	ppm	0.04495	5.928
B_2089		0.01870	ppm	0.0007290	3.900
Ba4934		0.1840	ppm	0.008804	4.784
Be3130		0.001458	ppm	0.00004000	2.728
Ca3179		82.79	ppm	9.331	11.27

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91082-a-1-u sd

Acquire Date: 2/6/2019 7:31:01PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.002251	ppm	0.0003380	15.01
Co2286		0.007754	ppm	0.0004890	6.300
Cr2677		0.01592	ppm	0.0005510	3.463
Cu327.39		0.04750	ppm	0.0003370	0.7091
Fe2395		5.092	ppm	0.6069	11.92
K7694		1.001	ppm	0.1627	16.25
Mg2790		2.113	ppm	0.1357	6.422
Mn2576		0.4081	ppm	0.002887	0.7075
Mo2020		0.002876	ppm	0.0001020	3.555
Na5895		291.0	ppm	32.40	11.13
Ni2316		0.03495	ppm	0.0005680	1.626
Pb2203		0.1752	ppm	0.002343	1.338
Sb2068		0.01482	ppm	0.001723	11.62
Se1960		-0.0001610	ppm	0.005756	3,569
Si2124		3.088	ppm	0.3457	11.19
Sn1899		0.004740	ppm	0.0003370	7.104
Sr4077		0.1560	ppm	0.003640	2.334
Ti3361		0.08367	ppm	0.005746	6.867
Tl1908		0.008990	ppm	0.00009100	1.017
V2924		0.02083	ppm	0.00007700	0.3718
Zn2062		0.1617	ppm	0.002487	1.538
Y371.030		7,875.8	Cts/S	53.830	0.68348
Y029A		130,090	Cts/S	326.83	0.25124
Y029R		440.88	Cts/S	39.859	9.0409

720-91082-a-1-u

Acquire Date: 2/6/2019 7:35:50PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001261	ppm	0.0004660	36.95
Al3961		11.22	ppm	0.001533	0.01365
As1890		0.07783	ppm	0.0004850	0.6232
Au2427		2.022	ppm	0.2610	12.91
B_2089		0.06747	ppm	0.0005160	0.7644
Ba4934		0.6705	ppm	0.005765	0.8597
Be3130		0.001376	ppm	0.0002870	20.87
Ca3179		277.8	ppm	45.75	16.47
Cd2144		0.002879	ppm	0.0004830	16.77
Co2286		0.02442	ppm	0.0001290	0.5286
Cr2677		0.05514	ppm	0.0004220	0.7646
Cu327.39		0.1684	ppm	0.001880	1.116
Fe2395		17.12	ppm	2.928	17.10
K7694		4.895	ppm	0.1917	3.916
Mg2790		7.665	ppm	0.3920	5.114

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91082-a-1-u

Acquire Date: 2/6/2019 7:35:50PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		1.427	ppm	0.001284	0.09002
Mo2020		0.005882	ppm	0.0004450	7.564
Na5895		943.3	ppm	151.9	16.11
Ni2316		0.1282	ppm	0.0005270	0.4110
Pb2203		0.6663	ppm	0.007617	1.143
Sb2068		0.05109	ppm	0.0009330	1.827
Se1960		0.002334	ppm	0.001476	63.22
Si2124		11.23	ppm	1.777	15.82
Sn1899		0.005915	ppm	0.0001530	2.595
Sr4077		0.5676	ppm	0.005198	0.9158
Ti3361		0.3400	ppm	0.004209	1.238
Tl1908		0.02688	ppm	0.001452	5.402
V2924		0.07375	ppm	0.001104	1.497
Zn2062		0.6272	ppm	0.005091	0.8117
Y371.030		7,494.5	Cts/S	48.944	0.65308
Y029A		129,920	Cts/S	3,209.9	2.4707
Y029R		471.70	Cts/S	73.372	15.555

720-91082-a-2-p

Acquire Date: 2/6/2019 7:40:41PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0003870	ppm	0.0004810	124.2
Al3961		3.190	ppm	0.05807	1.820
As1890		0.01812	ppm	0.0007950	4.388
Au2427		3.212	ppm	0.1138	3.544
B_2089		0.04039	ppm	0.0001980	0.4896
Ba4934		0.6477	ppm	0.0003830	0.05910
Be3130		0.0009740	ppm	0.0009420	96.70
Ca3179		118.1	ppm	1.699	1.438
Cd2144		0.002169	ppm	0.00001300	0.5981
Co2286		0.03466	ppm	0.0001500	0.4336
Cr2677		0.03114	ppm	0.0001750	0.5610
Cu327.39		0.1968	ppm	0.0008430	0.4282
Fe2395		12.94	ppm	0.2444	1.888
K7694		3.872	ppm	0.06171	1.594
Mg2790		6.625	ppm	0.6272	9.467
Mn2576		1.820	ppm	0.008397	0.4615
Mo2020		0.001034	ppm	0.0001490	14.40
Na5895		839.8	ppm	14.46	1.722
Ni2316		0.1379	ppm	0.00005100	0.03704
Pb2203		0.9217	ppm	0.0002710	0.02941
Sb2068		0.1386	ppm	0.001410	1.018
Se1960		0.002640	ppm	0.001049	39.74
Si2124		7.360	ppm	0.06798	0.9236

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91082-a-2-p

Acquire Date: 2/6/2019 7:40:41PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.01586	ppm	0.0001920	1.211
Sr4077		0.3301	ppm	0.0009700	0.2938
Ti3361		0.2326	ppm	0.005435	2.337
Tl1908		0.01800	ppm	0.0002070	1.148
V2924		0.04977	ppm	0.00004000	0.08052
Zn2062		1.883	ppm	0.002711	0.1440
Y371.030		7,647.2	Cts/S	27.094	0.35431
Y029A		122,000	Cts/S	192.66	0.15792
Y029R		500.34	Cts/S	6.7692	1.3529

720-91082-a-3-l

Acquire Date: 2/6/2019 7:45:33PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001260	ppm	0.0008230	65.32
Al3961		7.204	ppm	0.2800	3.886
As1890		0.02331	ppm	0.001519	6.515
Au2427		1.760	ppm	0.3618	20.55
B_2089		0.04132	ppm	0.0005820	1.409
Ba4934		0.5612	ppm	0.01350	2.405
Be3130		0.001156	ppm	0.0007880	68.16
Ca3179		241.7	ppm	0.1162	0.04807
Cd2144		0.003397	ppm	0.00007300	2.155
Co2286		0.01800	ppm	0.0004280	2.379
Cr2677		0.03574	ppm	0.0006050	1.693
Cu327.39		0.1270	ppm	0.001585	1.248
Fe2395		12.65	ppm	0.1299	1.027
K7694		4.395	ppm	0.1559	3.547
Mg2790		5.376	ppm	0.02023	0.3763
Mn2576		1.299	ppm	0.006421	0.4941
Mo2020		0.001540	ppm	0.0001180	7.663
Na5895		837.6	ppm	1.380	0.1647
Ni2316		0.06445	ppm	0.0001960	0.3044
Pb2203		0.2276	ppm	0.001429	0.6279
Sb2068		0.007931	ppm	0.002264	28.54
Se1960		-0.001840	ppm	0.002936	159.6
Si2124		10.97	ppm	0.1160	1.057
Sn1899		0.004092	ppm	0.00008200	2.010
Sr4077		0.4708	ppm	0.007470	1.587
Ti3361		0.4642	ppm	0.01123	2.420
Tl1908		0.03249	ppm	0.0001730	0.5314
V2924		0.08356	ppm	0.0004070	0.4872
Zn2062		0.4139	ppm	0.0003500	0.08468
Y371.030		7,465.8	Cts/S	30.429	0.40758

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91082-a-3-I

Acquire Date: 2/6/2019 7:45:33PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		124,350	Cts/S	437.31	0.35168
Y029R		507.12	Cts/S	6.2163	1.2258

ICV/CCV

Acquire Date: 2/6/2019 7:50:28PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280	**W**	**0.2695**	**ppm**	**0.002480**	**0.9203**	**.2500**	**Rel(%)**	**Warn High**	**5.000**
Al3961		15.51	ppm	0.004859	0.03133	15.00	Rel(%)	Pass	
As1890		0.5086	ppm	0.0001470	0.02889	.5000	Rel(%)	Pass	
Au2427		-79.43	ppm	0.4213	0.5304				
B_2089		0.5029	ppm	0.0008780	0.1746	.5000	Rel(%)	Pass	
Ba4934	**W**	**0.5345**	**ppm**	**0.007536**	**1.410**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Be3130		0.4813	ppm	0.0003850	0.07990	.5000	Rel(%)	Pass	
Ca3179		15.61	ppm	0.6140	3.935	15.00	Rel(%)	Pass	
Cd2144		0.5077	ppm	0.001324	0.2609	.5000	Rel(%)	Pass	
Co2286		0.5085	ppm	0.001047	0.2058	.5000	Rel(%)	Pass	
Cr2677		0.5175	ppm	0.003247	0.6274	.5000	Rel(%)	Pass	
Cu327.39	**W**	**0.5304**	**ppm**	**0.001964**	**0.3703**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Fe2395	**W**	**14.15**	**ppm**	**0.2399**	**1.695**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
K7694	**W**	**15.97**	**ppm**	**0.2493**	**1.561**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Mg2790		15.32	ppm	0.2979	1.945	15.00	Rel(%)	Pass	
Mn2576	**W**	**0.5374**	**ppm**	**0.001874**	**0.3488**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Mo2020		0.5135	ppm	0.001324	0.2578	.5000	Rel(%)	Pass	
Na5895	**F**	**21.43**	**ppm**	**3.279**	**15.30**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
Ni2316		0.5120	ppm	0.0004240	0.08280	.5000	Rel(%)	Pass	
Pb2203		0.5104	ppm	0.002733	0.5354	.5000	Rel(%)	Pass	
Sb2068		0.5107	ppm	0.001902	0.3725	.5000	Rel(%)	Pass	
Se1960		0.5141	ppm	0.005996	1.166	.5000	Rel(%)	Pass	
Si2124		0.5065	ppm	0.006954	1.373				
Sn1899		0.5085	ppm	0.0008620	0.1694	.5000	Rel(%)	Pass	
Sr4077		0.5165	ppm	0.001080	0.2092	.5000	Rel(%)	Pass	
Ti3361		0.4807	ppm	0.006087	1.266	.5000	Rel(%)	Pass	
Tl1908		0.5151	ppm	0.0009450	0.1835	.5000	Rel(%)	Pass	
V2924		0.5197	ppm	0.002184	0.4202	.5000	Rel(%)	Pass	
Zn2062		0.5137	ppm	0.001613	0.3140	.5000	Rel(%)	Pass	
Y371.030		8,161.1	Cts/S	20.672	0.25330				
Y029A		146,150	Cts/S	1,128.1	0.77185				
Y029R		561.54	Cts/S	6.1161	1.0892				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/6/2019 7:55:11PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0002460	ppm	0.0005600	227.7	.0000	Abs	Pass	
Al3961		-0.03035	ppm	0.02272	74.86	.0000	Abs	Pass	
As1890		0.0008310	ppm	0.001590	191.5	.0000	Abs	Pass	
Au2427		0.01498	ppm	0.3391	2,264				
B_2089		0.0008390	ppm	0.001360	162.1	.0000	Abs	Pass	
Ba4934		0.0005420	ppm	0.003592	663.2	.0000	Abs	Pass	
Be3130		0.0009670	ppm	0.0003230	33.45	.0000	Abs	Pass	
Ca3179	**F**	**0.2639**	**ppm**	**0.01228**	**4.655**	**.0000**	**Abs**	**Fail High**	**.2000**
Cd2144		0.0005160	ppm	0.0001060	20.56	.0000	Abs	Pass	
Co2286		0.0007700	ppm	0.0001840	23.94	.0000	Abs	Pass	
Cr2677		-0.0003220	ppm	0.0001470	45.67	.0000	Abs	Pass	
Cu327.39		0.0004060	ppm	0.002892	711.8	.0000	Abs	Pass	
Fe2395		-0.005227	ppm	0.05858	1,121	.0000	Abs	Pass	
K7694		0.03264	ppm	0.02559	78.38	.0000	Abs	Pass	
Mg2790		-0.04040	ppm	0.2718	672.8	.0000	Abs	Pass	
Mn2576		0.0006960	ppm	0.0005610	80.70	.0000	Abs	Pass	
Mo2020		0.0007160	ppm	0.000002000	0.2242	.0000	Abs	Pass	
Na5895	**F**	**2.698**	**ppm**	**0.04843**	**1.795**	**.0000**	**Abs**	**Fail High**	**.5000**
Ni2316		0.0006220	ppm	0.0004340	69.76	.0000	Abs	Pass	
Pb2203		0.001211	ppm	0.0005550	45.82	.0000	Abs	Pass	
Sb2068		0.0009640	ppm	0.002186	226.8	.0000	Abs	Pass	
Se1960		-0.002013	ppm	0.002399	119.2	.0000	Abs	Pass	
Si2124		0.01298	ppm	0.002608	20.10				
Sn1899		0.0002230	ppm	0.0004490	201.1	.0000	Abs	Pass	
Sr4077		0.002202	ppm	0.0002850	12.96	.0000	Abs	Pass	
Ti3361		-0.001572	ppm	0.007545	479.8	.0000	Abs	Pass	
Tl1908		0.001241	ppm	0.002212	178.2	.0000	Abs	Pass	
V2924		0.0002740	ppm	0.0002910	106.0	.0000	Abs	Pass	
Zn2062		0.0005660	ppm	0.0001290	22.86	.0000	Abs	Pass	
Y371.030		8,505.1	Cts/S	10.584	0.12444				
Y029A		145,140	Cts/S	308.01	0.21221				
Y029R		524.92	Cts/S	5.4801	1.0440				

720-91082-a-4-I

Acquire Date: 2/6/2019 8:00:05PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0006170	ppm	0.0003010	48.71
Al3961		4.104	ppm	0.1369	3.335
As1890		0.02280	ppm	0.00004300	0.1872
Au2427		1.215	ppm	0.3688	30.35
B_2089		0.02006	ppm	0.0006320	3.154
Ba4934		0.3376	ppm	0.00007100	0.02089
Be3130		0.0005540	ppm	0.0003360	60.65
Ca3179		97.45	ppm	0.2643	0.2712
Cd2144		0.003089	ppm	0.00003800	1.224

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91082-a-4-l

Acquire Date: 2/6/2019 8:00:05PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		0.01127	ppm	0.0001460	1.293
Cr2677		0.02264	ppm	0.0003640	1.608
Cu327.39		0.05654	ppm	0.0007400	1.309
Fe2395		6.588	ppm	0.01283	0.1947
K7694		2.843	ppm	0.5223	18.37
Mg2790		3.039	ppm	0.1973	6.492
Mn2576		0.7136	ppm	0.0008880	0.1244
Mo2020		0.001252	ppm	0.000005000	0.3915
Na5895		882.4	ppm	0.8309	0.09417
Ni2316		0.05614	ppm	0.0001500	0.2669
Pb2203		0.2941	ppm	0.0004490	0.1528
Sb2068		0.01357	ppm	0.0001500	1.103
Se1960		0.0007490	ppm	0.0005850	78.10
Si2124		8.010	ppm	0.004843	0.06046
Sn1899		0.005491	ppm	0.0005490	9.997
Sr4077		0.2313	ppm	0.0006670	0.2883
Ti3361		0.2571	ppm	0.0002540	0.09894
Tl1908		0.006828	ppm	0.001507	22.07
V2924		0.02526	ppm	0.0003580	1.416
Zn2062		0.1900	ppm	0.0002490	0.1312
Y371.030		7,591.5	Cts/S	40.013	0.52707
Y029A		122,190	Cts/S	57.349	0.046935
Y029R		496.18	Cts/S	1.3713	0.27636

720-91054-b-2-h

Acquire Date: 2/6/2019 8:04:58PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001721	ppm	0.0006610	38.40
Al3961		0.9904	ppm	0.003645	0.3680
As1890		0.008185	ppm	0.0009170	11.20
Au2427		3.487	ppm	0.4762	13.66
B_2089		0.01233	ppm	0.0002250	1.827
Ba4934		0.9036	ppm	0.0004610	0.05098
Be3130		0.001326	ppm	0.0004350	32.77
Ca3179		115.8	ppm	1.393	1.203
Cd2144		0.001308	ppm	0.0001470	11.20
Co2286		0.03947	ppm	0.00005400	0.1356
Cr2677		0.008494	ppm	0.0002270	2.675
Cu327.39		0.02272	ppm	0.0009560	4.207
Fe2395		3.873	ppm	0.08608	2.222
K7694		2.365	ppm	0.4278	18.09
Mg2790		6.554	ppm	0.03860	0.5889
Mn2576		1.610	ppm	0.005835	0.3624

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91054-b-2-h

Acquire Date: 2/6/2019 8:04:58PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.001619	ppm	0.00001700	1.022
Na5895		806.0	ppm	11.81	1.465
Ni2316		0.04857	ppm	0.0002410	0.4963
Pb2203		0.03087	ppm	0.0003450	1.119
Sb2068		0.0007220	ppm	0.002841	393.7
Se1960		0.002305	ppm	0.001095	47.48
Si2124		2.866	ppm	0.02457	0.8572
Sn1899		0.0003690	ppm	0.0002140	57.99
Sr4077		0.3256	ppm	0.001742	0.5351
Ti3361		0.07843	ppm	0.006842	8.723
Tl1908		0.01162	ppm	0.001505	12.95
V2924		0.04005	ppm	0.0006780	1.692
Zn2062		0.04515	ppm	0.0004860	1.076
Y371.030		7,874.7	Cts/S	38.967	0.49483
Y029A		126,720	Cts/S	317.65	0.25067
Y029R		510.02	Cts/S	6.3830	1.2515

720-91054-b-3-h

Acquire Date: 2/6/2019 8:09:52PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.00002100	ppm	0.0004250	2,020
Al3961		1.135	ppm	0.06373	5.615
As1890		0.008793	ppm	0.0003890	4.423
Au2427		5.019	ppm	1.127	22.45
B_2089		0.01918	ppm	0.0004580	2.386
Ba4934		0.9325	ppm	0.005932	0.6361
Be3130		0.001274	ppm	0.0003860	30.30
Ca3179		117.7	ppm	3.946	3.354
Cd2144		0.001016	ppm	0.000001000	0.07036
Co2286		0.05951	ppm	0.0008710	1.464
Cr2677		0.03791	ppm	0.001129	2.978
Cu327.39		0.01500	ppm	0.0005550	3.700
Fe2395		10.86	ppm	0.1971	1.814
K7694		2.854	ppm	0.03155	1.106
Mg2790		15.67	ppm	0.1198	0.7645
Mn2576		2.515	ppm	0.06627	2.635
Mo2020		0.0006660	ppm	0.00006400	9.545
Na5895		752.0	ppm	27.30	3.630
Ni2316		0.3624	ppm	0.008586	2.369
Pb2203		0.06193	ppm	0.00001800	0.02829
Sb2068		0.0002620	ppm	0.0003730	142.3
Se1960		-0.0006960	ppm	0.004790	688.4
Si2124		4.923	ppm	0.1707	3.467
Sn1899		0.0003880	ppm	0.00007300	18.89

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91054-b-3-h

Acquire Date: 2/6/2019 8:09:52PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sr4077		0.3767	ppm	0.002781	0.7383
Ti3361		0.1184	ppm	0.004509	3.810
Tl1908		0.02712	ppm	0.001711	6.308
V2924		0.07689	ppm	0.001928	2.507
Zn2062		0.06314	ppm	0.001649	2.611
Y371.030		8,102.4	Cts/S	148.10	1.8278
Y029A		111,040	Cts/S	13,958	12.570
Y029R		539.55	Cts/S	18.133	3.3609

720-91054-b-4-j

Acquire Date: 2/6/2019 8:14:46PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0009250	ppm	0.0004570	49.44
Al3961		0.5309	ppm	0.03835	7.223
As1890		0.007211	ppm	0.0001610	2.228
Au2427		3.406	ppm	0.03316	0.9735
B_2089		0.01415	ppm	0.0005570	3.938
Ba4934		0.8155	ppm	0.007556	0.9265
Be3130		0.0007360	ppm	0.00004700	6.345
Ca3179		184.6	ppm	15.96	8.646
Cd2144		0.001114	ppm	0.00003200	2.884
Co2286		0.05716	ppm	0.0001210	0.2113
Cr2677		0.01494	ppm	0.00008600	0.5759
Cu327.39		0.02736	ppm	0.0007380	2.696
Fe2395		3.119	ppm	0.08166	2.618
K7694		2.248	ppm	0.05117	2.276
Mg2790		10.71	ppm	0.5664	5.289
Mn2576		2.338	ppm	0.005991	0.2563
Mo2020		0.001101	ppm	0.00003900	3.516
Na5895		859.1	ppm	74.01	8.615
Ni2316		0.2427	ppm	0.0007570	0.3119
Pb2203		0.08315	ppm	0.001979	2.379
Sb2068		0.0008810	ppm	0.001654	187.6
Se1960		-0.0004040	ppm	0.001187	293.5
Si2124		3.063	ppm	0.2326	7.594
Sn1899		0.0003790	ppm	0.0002100	55.51
Sr4077		0.3529	ppm	0.002086	0.5912
Ti3361		0.04660	ppm	0.005277	11.32
Tl1908		0.01093	ppm	0.0005040	4.610
V2924		0.03012	ppm	0.0006210	2.062
Zn2062		0.06802	ppm	0.000008000	0.01212
Y371.030		7,664.7	Cts/S	27.463	0.35830
Y029A		130,830	Cts/S	675.39	0.51625

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91054-b-4-j

Acquire Date: 2/6/2019 8:14:46PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029R		515.29	Cts/S	40.996	7.9558

720-91054-b-5-h

Acquire Date: 2/6/2019 8:19:40PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0008100	ppm	0.0003790	46.71
Al3961		1.706	ppm	0.04233	2.481
As1890		0.008423	ppm	0.0009830	11.67
Au2427		2.650	ppm	0.04529	1.709
B_2089		0.01322	ppm	0.00007400	0.5604
Ba4934		0.4701	ppm	0.001419	0.3018
Be3130		0.00002600	ppm	0.0005010	1,904
Ca3179		102.5	ppm	0.3187	0.3111
Cd2144		0.0004390	ppm	0.0000	0.003207
Co2286		0.06495	ppm	0.0003570	0.5502
Cr2677		0.01525	ppm	0.0003340	2.190
Cu327.39		0.05113	ppm	0.001365	2.670
Fe2395		4.764	ppm	0.1766	3.706
K7694		2.583	ppm	0.2545	9.856
Mg2790		15.52	ppm	0.01034	0.06661
Mn2576		1.599	ppm	0.001959	0.1225
Mo2020		0.0006720	ppm	0.0002580	38.44
Na5895		861.1	ppm	5.489	0.6374
Ni2316		0.1151	ppm	0.0003000	0.2608
Pb2203		0.01919	ppm	0.0005400	2.813
Sb2068		0.0008880	ppm	0.0008880	100.0
Se1960		-0.0005690	ppm	0.002627	461.9
Si2124		4.829	ppm	0.005842	0.1210
Sn1899		0.0007160	ppm	0.0005670	79.15
Sr4077		0.7803	ppm	0.0007490	0.09605
Ti3361		0.04662	ppm	0.002440	5.233
Tl1908		0.009200	ppm	0.001214	13.19
V2924		0.02705	ppm	0.00006500	0.2415
Zn2062		0.03007	ppm	0.00007300	0.2413
Y371.030		7,418.8	Cts/S	42.056	0.56688
Y029A		121,020	Cts/S	291.58	0.24093
Y029R		486.78	Cts/S	1.8652	0.38318

720-91054-a-7-f

Acquire Date: 2/6/2019 8:24:35PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0005940	ppm	0.0001920	32.37
Al3961		0.04024	ppm	0.1092	271.3
As1890		0.005670	ppm	0.0004630	8.168
Au2427		2.987	ppm	0.3496	11.71
B_2089		0.02117	ppm	0.0009230	4.359
Ba4934		0.8951	ppm	0.01291	1.442
Be3130		0.0005710	ppm	0.0001900	33.25
Ca3179		264.9	ppm	0.8099	0.3057
Cd2144		0.001075	ppm	0.00001900	1.800
Co2286		0.03367	ppm	0.0003930	1.167
Cr2677		0.01240	ppm	0.001051	8.481
Cu327.39		0.01855	ppm	0.0003690	1.992
Fe2395		3.821	ppm	0.1944	5.087
K7694		2.932	ppm	0.3113	10.62
Mg2790		8.718	ppm	0.2129	2.442
Mn2576		1.456	ppm	0.009087	0.6243
Mo2020		0.0005590	ppm	0.0002180	38.94
Na5895		828.9	ppm	3.925	0.4736
Ni2316		0.1544	ppm	0.0002280	0.1480
Pb2203		0.04897	ppm	0.0001800	0.3686
Sb2068		-0.003888	ppm	0.001319	33.93
Se1960		-0.001521	ppm	0.006062	398.7
Si2124		2.642	ppm	0.001254	0.04746
Sn1899		0.0003700	ppm	0.0003920	105.9
Sr4077		0.6531	ppm	0.003528	0.5402
Ti3361		0.02283	ppm	0.008723	38.21
Tl1908		0.01506	ppm	0.0005790	3.846
V2924		0.04207	ppm	0.0003400	0.8090
Zn2062		0.07937	ppm	0.00005200	0.06579
Y371.030		7,632.6	Cts/S	10.408	0.13637
Y029A		123,740	Cts/S	689.79	0.55747
Y029R		495.25	Cts/S	1.1878	0.23984

720-91054-a-8-f

Acquire Date: 2/6/2019 8:29:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001625	ppm	0.0007360	45.28
Al3961		0.03961	ppm	0.06133	154.9
As1890		0.007256	ppm	0.0007320	10.09
Au2427		2.836	ppm	0.1462	5.154
B_2089		0.02361	ppm	0.00002300	0.09719
Ba4934		1.172	ppm	0.0004570	0.03899
Be3130		0.0006160	ppm	0.00003200	5.212
Ca3179		256.9	ppm	1.327	0.5164

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91054-a-8-f

Acquire Date: 2/6/2019 8:29:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.0009850	ppm	0.00006500	6.645
Co2286		0.03337	ppm	0.00001200	0.03560
Cr2677		0.01486	ppm	0.0002030	1.368
Cu327.39		0.02262	ppm	0.0009000	3.978
Fe2395		3.713	ppm	0.01375	0.3702
K7694		3.855	ppm	0.4327	11.22
Mg2790		9.895	ppm	0.02475	0.2501
Mn2576		1.702	ppm	0.0003870	0.02272
Mo2020		0.0008560	ppm	0.00004300	4.973
Na5895		766.0	ppm	3.884	0.5070
Ni2316		0.1535	ppm	0.0001400	0.09109
Pb2203		0.04947	ppm	0.0006060	1.225
Sb2068		-0.001052	ppm	0.003160	300.3
Se1960		0.004294	ppm	0.001095	25.50
Si2124		2.408	ppm	0.008547	0.3549
Sn1899		0.002082	ppm	0.0002520	12.10
Sr4077		0.8575	ppm	0.003587	0.4184
Ti3361		0.02684	ppm	0.0004910	1.828
Tl1908		0.01625	ppm	0.001819	11.19
V2924		0.04920	ppm	0.0002740	0.5578
Zn2062		0.07828	ppm	0.0002080	0.2663
Y371.030		8,851.1	Cts/S	0.32676	0.0036920
Y029A		149,010	Cts/S	120.80	0.081071
Y029R		648.55	Cts/S	3.3820	0.52147

720-91054-a-10-f

Acquire Date: 2/6/2019 8:34:23PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0003500	ppm	0.0003010	86.11
Al3961		1.975	ppm	0.1903	9.635
As1890		0.01309	ppm	0.001743	13.32
Au2427		4.227	ppm	0.06808	1.611
B_2089		0.02365	ppm	0.0006650	2.811
Ba4934		0.6805	ppm	0.009757	1.434
Be3130		0.0003870	ppm	0.0002590	66.94
Ca3179		108.0	ppm	1.534	1.421
Cd2144		0.0007190	ppm	0.00001400	2.012
Co2286		0.08128	ppm	0.0004570	0.5619
Cr2677		0.01817	ppm	0.000007000	0.03865
Cu327.39		0.05053	ppm	0.0003540	0.7014
Fe2395		5.635	ppm	0.004443	0.07884
K7694		3.486	ppm	0.2411	6.915
Mg2790		14.44	ppm	0.3169	2.195

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91054-a-10-f

Acquire Date: 2/6/2019 8:34:23PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		1.987	ppm	0.01061	0.5337
Mo2020		0.003455	ppm	0.0002060	5.968
Na5895		806.0	ppm	5.901	0.7322
Ni2316		0.1586	ppm	0.00002500	0.01581
Pb2203		0.02415	ppm	0.001759	7.282
Sb2068		-0.001127	ppm	0.0009830	87.25
Se1960		0.0005170	ppm	0.002540	491.0
Si2124		5.347	ppm	0.01703	0.3184
Sn1899		0.00008100	ppm	0.0001080	132.1
Sr4077		0.9070	ppm	0.006431	0.7090
Ti3361		0.04515	ppm	0.004177	9.251
Tl1908		0.01465	ppm	0.001975	13.48
V2924		0.04340	ppm	0.0002430	0.5591
Zn2062		0.03439	ppm	0.000003000	0.007657
Y371.030		7,596.3	Cts/S	1.6713	0.022001
Y029A		122,650	Cts/S	766.56	0.62499
Y029R		490.47	Cts/S	0.61445	0.12528

mb 720-259629/1-a

Acquire Date: 2/6/2019 8:39:18PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0005490	ppm	0.001123	204.6
Al3961		-0.04523	ppm	0.005050	11.17
As1890		0.0003690	ppm	0.001151	311.9
Au2427		0.3006	ppm	0.06981	23.22
B_2089		0.0004020	ppm	0.001082	269.1
Ba4934		0.002867	ppm	0.003870	135.0
Be3130		0.0002350	ppm	0.0004340	184.8
Ca3179		0.5106	ppm	0.1326	25.98
Cd2144		-0.00009400	ppm	0.000005000	4.965
Co2286		0.00008700	ppm	0.0001370	157.3
Cr2677		0.0001050	ppm	0.0001770	169.4
Cu327.39		0.001553	ppm	0.000007000	0.4272
Fe2395		0.07002	ppm	0.05308	75.81
K7694		-0.2433	ppm	0.6461	265.6
Mg2790		-0.2105	ppm	0.1548	73.55
Mn2576		0.009821	ppm	0.004054	41.28
Mo2020		-0.0001280	ppm	0.0002930	229.2
Na5895		3.949	ppm	0.5976	15.13
Ni2316		0.0009670	ppm	0.0003510	36.26
Pb2203		0.004439	ppm	0.0003270	7.368
Sb2068		0.0002910	ppm	0.00009700	33.47
Se1960		0.0004360	ppm	0.0008390	192.5
Si2124		0.04222	ppm	0.005004	11.85

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

mb 720-259629/1-a

Acquire Date: 2/6/2019 8:39:18PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.009504	ppm	0.0002410	2.533
Sr4077		0.002149	ppm	0.001182	54.99
Ti3361		-0.004101	ppm	0.001764	43.01
Tl1908		0.001488	ppm	0.0008710	58.49
V2924		0.0002240	ppm	0.0003630	162.1
Zn2062		0.004230	ppm	0.0002290	5.408
Y371.030		8,461.9	Cts/S	2.2424	0.026500
Y029A		148,940	Cts/S	487.06	0.32702
Y029R		538.19	Cts/S	0.72478	0.13467

lcs 720-259629/2-a

Acquire Date: 2/6/2019 8:44:11PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.5043	ppm	0.002989	0.5928
Al3961		9.814	ppm	0.02356	0.2401
As1890		0.9789	ppm	0.001535	0.1568
Au2427		1.449	ppm	0.2109	14.56
B_2089		0.9713	ppm	0.003331	0.3429
Ba4934		0.9967	ppm	0.003989	0.4002
Be3130		0.9316	ppm	0.002890	0.3103
Ca3179		10.32	ppm	0.1864	1.807
Cd2144		1.014	ppm	0.0003920	0.03870
Co2286		1.030	ppm	0.001863	0.1809
Cr2677		1.021	ppm	0.006130	0.6005
Cu327.39		1.036	ppm	0.008699	0.8397
Fe2395		9.752	ppm	0.3650	3.743
K7694		9.649	ppm	0.1273	1.319
Mg2790		9.683	ppm	0.07005	0.7234
Mn2576		1.032	ppm	0.005157	0.4995
Mo2020		1.003	ppm	0.002063	0.2056
Na5895		12.83	ppm	0.7348	5.727
Ni2316		1.014	ppm	0.0003330	0.03281
Pb2203		1.030	ppm	0.002052	0.1993
Sb2068		0.9916	ppm	0.0009810	0.09894
Se1960		0.9804	ppm	0.004499	0.4589
Si2124		0.7882	ppm	0.0004770	0.06049
Sn1899		1.025	ppm	0.003224	0.3144
Sr4077		0.9745	ppm	0.005080	0.5213
Ti3361		0.9258	ppm	0.01418	1.531
Tl1908		1.016	ppm	0.003143	0.3094
V2924		1.015	ppm	0.006966	0.6861
Zn2062		1.016	ppm	0.001725	0.1697
Y371.030		8,057.3	Cts/S	7.6194	0.094566

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

lcs 720-259629/2-a

Acquire Date: 2/6/2019 8:44:11PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		141,260	Cts/S	669.39	0.47387
Y029R		513.86	Cts/S	1.5733	0.30617

ICV/CCV

Acquire Date: 2/6/2019 8:48:53PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2538	ppm	0.0003750	0.1475	.2500	Rel(%)	Pass	
Al3961		14.36	ppm	0.1159	0.8068	15.00	Rel(%)	Pass	
As1890		0.5028	ppm	0.001381	0.2748	.5000	Rel(%)	Pass	
Au2427		-80.87	ppm	0.1595	0.1973				
B_2089		0.5226	ppm	0.001038	0.1986	.5000	Rel(%)	Pass	
Ba4934		0.4820	ppm	0.0002050	0.04263	.5000	Rel(%)	Pass	
Be3130	**W**	**0.4726**	**ppm**	**0.00005600**	**0.01191**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Ca3179		15.59	ppm	0.1987	1.274	15.00	Rel(%)	Pass	
Cd2144		0.5213	ppm	0.0002230	0.04284	.5000	Rel(%)	Pass	
Co2286	**W**	**0.5254**	**ppm**	**0.0005100**	**0.09712**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677		0.5122	ppm	0.001533	0.2992	.5000	Rel(%)	Pass	
Cu327.39		0.5084	ppm	0.0001470	0.02884	.5000	Rel(%)	Pass	
Fe2395		15.32	ppm	0.2357	1.539	15.00	Rel(%)	Pass	
K7694		14.31	ppm	0.1738	1.215	15.00	Rel(%)	Pass	
Mg2790	**W**	**14.08**	**ppm**	**0.3703**	**2.630**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mn2576		0.4978	ppm	0.001003	0.2016	.5000	Rel(%)	Pass	
Mo2020		0.5083	ppm	0.0002260	0.04440	.5000	Rel(%)	Pass	
Na5895	**F**	**17.42**	**ppm**	**0.4070**	**2.337**	**15.00**	**Rel(%)**	**Fail High**	**10.00**
Ni2316		0.5156	ppm	0.0004300	0.08331	.5000	Rel(%)	Pass	
Pb2203		0.5218	ppm	0.001632	0.3128	.5000	Rel(%)	Pass	
Sb2068		0.5084	ppm	0.001398	0.2750	.5000	Rel(%)	Pass	
Se1960		0.5092	ppm	0.003403	0.6684	.5000	Rel(%)	Pass	
Si2124		0.5910	ppm	0.006361	1.076				
Sn1899		0.5171	ppm	0.00009700	0.01867	.5000	Rel(%)	Pass	
Sr4077		0.4785	ppm	0.001668	0.3485	.5000	Rel(%)	Pass	
Ti3361		0.4878	ppm	0.001509	0.3093	.5000	Rel(%)	Pass	
Tl1908		0.5169	ppm	0.003304	0.6392	.5000	Rel(%)	Pass	
V2924		0.5118	ppm	0.0004280	0.08355	.5000	Rel(%)	Pass	
Zn2062		0.5189	ppm	0.001020	0.1966	.5000	Rel(%)	Pass	
Y371.030		8,082.1	Cts/S	6.3790	0.078927				
Y029A		135,170	Cts/S	295.03	0.21827				
Y029R		487.59	Cts/S	2.1863	0.44840				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/6/2019 8:53:36PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0001340	ppm	0.001084	806.6	.0000	Abs	Pass	
Al3961		-0.04464	ppm	0.02609	58.44	.0000	Abs	Pass	
As1890		0.001229	ppm	0.00004900	3.962	.0000	Abs	Pass	
Au2427		0.4175	ppm	0.02408	5.766				
B_2089		0.0009800	ppm	0.0002500	25.51	.0000	Abs	Pass	
Ba4934		0.002522	ppm	0.005124	203.2	.0000	Abs	Pass	
Be3130		0.001373	ppm	0.0002280	16.61	.0000	Abs	Pass	
Ca3179		0.1078	ppm	0.007011	6.506	.0000	Abs	Pass	
Cd2144		0.0006360	ppm	0.00008800	13.88	.0000	Abs	Pass	
Co2286		0.0007390	ppm	0.00003600	4.847	.0000	Abs	Pass	
Cr2677		0.0003330	ppm	0.0006650	199.4	.0000	Abs	Pass	
Cu327.39		0.001502	ppm	0.001741	115.9	.0000	Abs	Pass	
Fe2395		0.04192	ppm	0.01087	25.92	.0000	Abs	Pass	
K7694		-0.1780	ppm	0.5871	329.9	.0000	Abs	Pass	
Mg2790	**F**	**-0.2404**	**ppm**	**0.2156**	**89.68**	**.0000**	**Abs**	**Fail Low**	**-.2000**
Mn2576		0.0008150	ppm	0.001146	140.6	.0000	Abs	Pass	
Mo2020		0.0002790	ppm	0.0003370	120.6	.0000	Abs	Pass	
Na5895	**F**	**1.626**	**ppm**	**0.06469**	**3.979**	**.0000**	**Abs**	**Fail High**	**.5000**
Ni2316		-0.0001500	ppm	0.0002020	134.4	.0000	Abs	Pass	
Pb2203		0.0005660	ppm	0.001525	269.3	.0000	Abs	Pass	
Sb2068		0.0003990	ppm	0.0007700	193.3	.0000	Abs	Pass	
Se1960		-0.001170	ppm	0.001155	98.77	.0000	Abs	Pass	
Si2124		0.004096	ppm	0.0006780	16.56				
Sn1899		0.00002100	ppm	0.0003350	1,634	.0000	Abs	Pass	
Sr4077		0.001330	ppm	0.00002500	1.852	.0000	Abs	Pass	
Ti3361		-0.0005800	ppm	0.002969	511.9	.0000	Abs	Pass	
Tl1908		0.001311	ppm	0.001885	143.8	.0000	Abs	Pass	
V2924		0.001378	ppm	0.0006290	45.65	.0000	Abs	Pass	
Zn2062		-0.0004040	ppm	0.0001350	33.34	.0000	Abs	Pass	
Y371.030		8,361.7	Cts/S	18.020	0.21551				
Y029A		138,440	Cts/S	533.87	0.38564				
Y029R		484.56	Cts/S	3.5886	0.74058				

720-91012-a-16-d ms

Acquire Date: 2/6/2019 8:58:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1461	ppm	0.001599	1.094
Al3961		93.35	ppm	0.4519	0.4841
As1890		0.3216	ppm	0.008315	2.586
Au2427		-3.673	ppm	0.7453	20.29
B_2089		0.2952	ppm	0.005621	1.904
Ba4934		0.7007	ppm	0.007065	1.008
Be3130		0.3101	ppm	0.001300	0.4191
Ca3179		55.34	ppm	0.05624	0.1016
Cd2144		0.3096	ppm	0.005558	1.795

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91012-a-16-d ms

Acquire Date: 2/6/2019 8:58:29PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		0.3598	ppm	0.005999	1.667
Cr2677		0.8704	ppm	0.008849	1.017
Cu327.39		1.559	ppm	0.01394	0.8943
Fe2395		158.6	ppm	1.279	0.8062
K7694		6.963	ppm	0.1824	2.620
Mg2790		30.41	ppm	0.07739	0.2545
Mn2576		1.767	ppm	0.01522	0.8613
Mo2020		0.2943	ppm	0.004876	1.657
Na5895		13.54	ppm	0.05130	0.3789
Ni2316		0.6526	ppm	0.01228	1.881
Pb2203		5.637	ppm	0.09399	1.667
Sb2068		0.1068	ppm	0.002235	2.094
Se1960		0.2971	ppm	0.006121	2.060
Si2124		2.843	ppm	0.04463	1.570
Sn1899		0.5092	ppm	0.008953	1.758
Sr4077		1.233	ppm	0.002827	0.2292
Ti3361		2.181	ppm	0.003659	0.1677
Tl1908		0.5572	ppm	0.007537	1.353
V2924		0.9607	ppm	0.007606	0.7917
Zn2062		1.408	ppm	0.02355	1.673
Y371.030		8,226.5	Cts/S	11.205	0.13621
Y029A		136,440	Cts/S	467.66	0.34276
Y029R		510.10	Cts/S	0.14142	0.027724

720-91012-a-16-e msd

Acquire Date: 2/6/2019 9:03:11PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1496	ppm	0.003115	2.082
Al3961		87.18	ppm	0.3282	0.3765
As1890		0.3141	ppm	0.005439	1.732
Au2427		-3.419	ppm	0.1663	4.864
B_2089		0.2917	ppm	0.003214	1.102
Ba4934		0.6340	ppm	0.008215	1.296
Be3130		0.3056	ppm	0.002264	0.7409
Ca3179		60.18	ppm	0.2864	0.4758
Cd2144		0.3077	ppm	0.004400	1.430
Co2286		0.3615	ppm	0.004776	1.321
Cr2677		0.7403	ppm	0.002853	0.3854
Cu327.39		1.682	ppm	0.01339	0.7959
Fe2395		163.7	ppm	0.5292	0.3232
K7694		6.129	ppm	0.2066	3.370
Mg2790		29.98	ppm	0.3115	1.039
Mn2576		1.811	ppm	0.01088	0.6008

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91012-a-16-e msd

Acquire Date: 2/6/2019 9:03:11PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.2784	ppm	0.005809	2.087
Na5895		10.67	ppm	0.3565	3.342
Ni2316		0.6674	ppm	0.008797	1.318
Pb2203		26.25	ppm	0.3302	1.258
Sb2068		1.971	ppm	0.03804	1.930
Se1960		0.2903	ppm	0.005670	1.953
Si2124		2.850	ppm	0.03127	1.097
Sn1899		6.378	ppm	0.07875	1.235
Sr4077		0.8493	ppm	0.004657	0.5483
Ti3361		1.823	ppm	0.01117	0.6128
Tl1908		0.5113	ppm	0.003423	0.6694
V2924		0.8608	ppm	0.006236	0.7243
Zn2062		1.412	ppm	0.01894	1.342
Y371.030		8,120.7	Cts/S	40.420	0.49775
Y029A		134,550	Cts/S	13.773	0.010236
Y029R		505.81	Cts/S	3.7653	0.74442

720-91012-a-16-f pds

Acquire Date: 2/6/2019 9:07:53PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.6043	ppm	0.009328	1.544
Al3961		96.87	ppm	0.3990	0.4119
As1890		1.178	ppm	0.01917	1.628
Au2427		-1.644	ppm	0.1338	8.137
B_2089		1.229	ppm	0.02282	1.857
Ba4934		1.515	ppm	0.004086	0.2696
Be3130		1.204	ppm	0.002326	0.1931
Ca3179		64.48	ppm	0.4579	0.7101
Cd2144		1.199	ppm	0.01935	1.614
Co2286		1.262	ppm	0.02114	1.675
Cr2677		1.623	ppm	0.01866	1.150
Cu327.39		2.578	ppm	0.02995	1.162
Fe2395		162.5	ppm	0.4243	0.2612
K7694		15.95	ppm	0.3037	1.903
Mg2790		36.89	ppm	0.2950	0.7996
Mn2576		2.573	ppm	0.03118	1.212
Mo2020		1.159	ppm	0.01899	1.639
Na5895		19.20	ppm	0.1426	0.7426
Ni2316		1.496	ppm	0.02518	1.683
Pb2203		8.022	ppm	0.1203	1.499
Sb2068		1.205	ppm	0.01908	1.583
Se1960		1.158	ppm	0.02336	2.017
Si2124		3.704	ppm	0.03502	0.9456
Sn1899		1.421	ppm	0.01856	1.306

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91012-a-16-f pds

Acquire Date: 2/6/2019 9:07:53PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sr4077		1.707	ppm	0.006635	0.3886
Ti3361		2.940	ppm	0.04493	1.528
Tl1908		1.389	ppm	0.02041	1.469
V2924		1.794	ppm	0.01836	1.023
Zn2062		2.228	ppm	0.03565	1.600
Y371.030		8,156.2	Cts/S	11.517	0.14120
Y029A		135,660	Cts/S	1,489.4	1.0979
Y029R		503.33	Cts/S	3.8266	0.76026

720-91012-a-16-f sd

Acquire Date: 2/6/2019 9:12:31PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0003120	ppm	0.00002800	9.082
Al3961		14.23	ppm	0.08163	0.5736
As1890		0.005765	ppm	0.002597	45.06
Au2427		-0.1667	ppm	0.1102	66.09
B_2089		0.004186	ppm	0.0001230	2.944
Ba4934		0.05123	ppm	0.003566	6.961
Be3130		0.001425	ppm	0.00008900	6.282
Ca3179		8.651	ppm	0.09418	1.089
Cd2144		0.002190	ppm	0.0005540	25.28
Co2286		0.01044	ppm	0.0009640	9.239
Cr2677		0.07281	ppm	0.001197	1.645
Cu327.39		0.2342	ppm	0.001947	0.8316
Fe2395		25.17	ppm	0.01665	0.06617
K7694		0.3692	ppm	0.3046	82.49
Mg2790		4.242	ppm	0.1566	3.692
Mn2576		0.2498	ppm	0.002957	1.184
Mo2020		0.002140	ppm	0.0005320	24.86
Na5895		1.728	ppm	0.1042	6.030
Ni2316		0.06320	ppm	0.0005570	0.8812
Pb2203		1.218	ppm	0.007055	0.5793
Sb2068		0.009633	ppm	0.0005900	6.128
Se1960		0.002996	ppm	0.004117	137.4
Si2124		0.3996	ppm	0.002341	0.5858
Sn1899		0.04921	ppm	0.002159	4.388
Sr4077		0.08600	ppm	0.002357	2.740
Ti3361		0.2691	ppm	0.008383	3.115
Tl1908		0.03908	ppm	0.001206	3.087
V2924		0.09891	ppm	0.002071	2.094
Zn2062		0.1818	ppm	0.0008170	0.4494
Y371.030		8,531.0	Cts/S	6.0351	0.070743
Y029A		142,340	Cts/S	614.82	0.43193

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91012-a-16-f sd

Acquire Date: 2/6/2019 9:12:31PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029R		510.39	Cts/S	2.0683	0.40524

720-91012-a-16-f

Acquire Date: 2/6/2019 9:17:20PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001107	ppm	0.0007010	63.30
Al3961		69.64	ppm	1.345	1.931
As1890		0.02460	ppm	0.0002430	0.9878
Au2427		-3.035	ppm	0.04446	1.465
B_2089		0.01320	ppm	0.0007540	5.714
Ba4934		0.2666	ppm	0.001597	0.5991
Be3130		0.001584	ppm	0.0004270	26.94
Ca3179		48.19	ppm	0.1119	0.2323
Cd2144		0.005400	ppm	0.000007000	0.1245
Co2286		0.04166	ppm	0.0001240	0.2980
Cr2677		0.3344	ppm	0.001629	0.4871
Cu327.39		1.099	ppm	0.002388	0.2173
Fe2395		137.2	ppm	0.4291	0.3127
K7694		2.719	ppm	0.2237	8.229
Mg2790		22.75	ppm	0.4183	1.839
Mn2576		1.226	ppm	0.0005040	0.04111
Mo2020		0.005956	ppm	0.00006300	1.058
Na5895		6.641	ppm	0.05956	0.8969
Ni2316		0.2926	ppm	0.0008110	0.2770
Pb2203		5.423	ppm	0.01750	0.3228
Sb2068		0.03299	ppm	0.002658	8.058
Se1960		0.01042	ppm	0.0002620	2.516
Si2124		2.012	ppm	0.01809	0.8993
Sn1899		0.2031	ppm	0.0007650	0.3765
Sr4077		0.4139	ppm	0.006221	1.503
Ti3361		1.349	ppm	0.03269	2.423
Tl1908		0.1822	ppm	0.0005540	0.3040
V2924		0.4570	ppm	0.0007180	0.1571
Zn2062		0.8284	ppm	0.003132	0.3781
Y371.030		8,358.3	Cts/S	0.51949	0.0062150
Y029A		147,460	Cts/S	2,145.0	1.4546
Y029R		461.30	Cts/S	5.2326	1.1343

720-91012-a-38-b

Acquire Date: 2/6/2019 9:22:05PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.003082	ppm	0.0003020	9.816
Al3961		246.3	ppm	0.06129	0.02488
As1890		0.3073	ppm	0.001704	0.5545
Au2427		-3.975	ppm	0.5285	13.30
B_2089		0.01245	ppm	0.0002680	2.152
Ba4934		0.2996	ppm	0.002208	0.7369
Be3130		0.0006750	ppm	0.0004200	62.30
Ca3179		186.8	ppm	1.790	0.9584
Cd2144		0.0007830	ppm	0.0001010	12.87
Co2286		0.08565	ppm	0.0008730	1.019
Cr2677		0.07869	ppm	0.001123	1.427
Cu327.39		0.8708	ppm	0.005547	0.6370
Fe2395		191.2	ppm	2.769	1.448
K7694		10.16	ppm	0.03591	0.3535
Mg2790		54.57	ppm	0.1047	0.1919
Mn2576		2.238	ppm	0.003155	0.1410
Mo2020		0.001082	ppm	0.0002870	26.49
Na5895		22.98	ppm	0.2301	1.001
Ni2316		0.02496	ppm	0.0001270	0.5079
Pb2203		0.01043	ppm	0.0009220	8.844
Sb2068		0.004985	ppm	0.001789	35.89
Se1960		0.002552	ppm	0.001885	73.88
Si2124		0.4540	ppm	0.004237	0.9333
Sn1899		0.009150	ppm	0.0007170	7.833
Sr4077		0.6279	ppm	0.0003280	0.05231
Ti3361		3.348	ppm	0.01136	0.3394
Tl1908		0.3322	ppm	0.002809	0.8455
V2924		0.8296	ppm	0.002257	0.2720
Zn2062		0.2898	ppm	0.001652	0.5701
Y371.030		7,830.3	Cts/S	16.827	0.21490
Y029A		127,820	Cts/S	295.60	0.23126
Y029R		497.56	Cts/S	6.7611	1.3589

720-91012-a-39-b

Acquire Date: 2/6/2019 9:26:49PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0007970	ppm	0.0005010	62.91
Al3961		47.97	ppm	0.7481	1.560
As1890		0.06039	ppm	0.002881	4.771
Au2427		-4.081	ppm	0.06421	1.573
B_2089		0.06676	ppm	0.001087	1.628
Ba4934		0.9974	ppm	0.01749	1.753
Be3130		0.001162	ppm	0.0002350	20.27
Ca3179		22.88	ppm	0.05367	0.2346

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91012-a-39-b

Acquire Date: 2/6/2019 9:26:49PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.006294	ppm	0.0002620	4.161
Co2286		0.03586	ppm	0.001153	3.216
Cr2677		0.1875	ppm	0.0001410	0.07493
Cu327.39		0.3695	ppm	0.0001380	0.03746
Fe2395		159.6	ppm	1.846	1.157
K7694		4.287	ppm	0.2430	5.667
Mg2790		13.19	ppm	0.04698	0.3562
Mn2576		1.299	ppm	0.002124	0.1635
Mo2020		0.005536	ppm	0.0003270	5.899
Na5895		3.027	ppm	0.04267	1.410
Ni2316		0.1453	ppm	0.004081	2.809
Pb2203		26.01	ppm	0.6122	2.354
Sb2068		0.02589	ppm	0.001276	4.927
Se1960		0.01047	ppm	0.0001820	1.736
Si2124		2.972	ppm	0.03161	1.064
Sn1899		0.01932	ppm	0.00007200	0.3739
Sr4077		0.1223	ppm	0.002118	1.733
Ti3361		2.271	ppm	0.06000	2.642
Tl1908		0.1018	ppm	0.0005050	0.4957
V2924		0.2553	ppm	0.001060	0.4154
Zn2062		1.086	ppm	0.02719	2.503
Y371.030		8,354.0	Cts/S	15.821	0.18938
Y029A		139,030	Cts/S	1,164.5	0.83762
Y029R		491.09	Cts/S	6.1342	1.2491

720-91012-a-40-b

Acquire Date: 2/6/2019 9:31:33PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0002760	ppm	0.001532	556.0
Al3961		184.0	ppm	0.2600	0.1413
As1890		0.03676	ppm	0.001185	3.224
Au2427		-0.1254	ppm	0.3196	254.9
B_2089		0.06627	ppm	0.00009100	0.1373
Ba4934		1.287	ppm	0.004544	0.3532
Be3130		0.004238	ppm	0.0003480	8.221
Ca3179		107.7	ppm	0.01478	0.01372
Cd2144		0.003775	ppm	0.0001300	3.452
Co2286		0.2042	ppm	0.003296	1.614
Cr2677		1.527	ppm	0.01757	1.151
Cu327.39		0.3483	ppm	0.003618	1.039
Fe2395		298.6	ppm	1.117	0.3742
K7694		10.50	ppm	0.3047	2.901
Mg2790		155.5	ppm	0.3823	0.2459

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91012-a-40-b

Acquire Date: 2/6/2019 9:31:33PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		6.469	ppm	0.07378	1.140
Mo2020		0.002557	ppm	0.0003430	13.43
Na5895		5.784	ppm	0.08456	1.462
Ni2316		1.752	ppm	0.02420	1.381
Pb2203		0.1134	ppm	0.006536	5.766
Sb2068		0.03898	ppm	0.0003580	0.9184
Se1960		0.01618	ppm	0.003718	22.98
Si2124		0.5499	ppm	0.01291	2.347
Sn1899		0.02284	ppm	0.0007470	3.268
Sr4077		0.4041	ppm	0.001253	0.3100
Ti3361		11.48	ppm	0.1015	0.8839
Tl1908		0.2611	ppm	0.002733	1.047
V2924		0.6650	ppm	0.006413	0.9644
Zn2062		0.5473	ppm	0.008100	1.480
Y371.030		8,482.9	Cts/S	4.6262	0.054535
Y029A		140,580	Cts/S	532.15	0.37855
Y029R		532.46	Cts/S	2.5547	0.47979

720-91012-a-41-b

Acquire Date: 2/6/2019 9:36:23PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0004010	ppm	0.000002000	0.5658
Al3961		97.26	ppm	0.8074	0.8301
As1890		0.2514	ppm	0.007242	2.880
Au2427		0.4795	ppm	0.08874	18.51
B_2089		0.03221	ppm	0.0001120	0.3473
Ba4934		0.5157	ppm	0.007342	1.424
Be3130		0.002883	ppm	0.0008010	27.79
Ca3179		457.8	ppm	2.005	0.4380
Cd2144		0.004821	ppm	0.0001230	2.561
Co2286		0.07598	ppm	0.001592	2.095
Cr2677		0.3951	ppm	0.0006070	0.1536
Cu327.39		0.3401	ppm	0.002572	0.7561
Fe2395		158.3	ppm	0.2950	0.1863
K7694		8.276	ppm	0.08896	1.075
Mg2790		51.30	ppm	1.158	2.257
Mn2576		3.619	ppm	0.07514	2.076
Mo2020		0.003716	ppm	0.0003420	9.205
Na5895		4.526	ppm	0.03273	0.7231
Ni2316		0.3723	ppm	0.008210	2.205
Pb2203		0.8275	ppm	0.01788	2.161
Sb2068		0.01036	ppm	0.001077	10.39
Se1960		0.004293	ppm	0.008467	197.3
Si2124		0.8265	ppm	0.01147	1.387

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91012-a-41-b

Acquire Date: 2/6/2019 9:36:23PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.04215	ppm	0.0006050	1.435
Sr4077		0.7240	ppm	0.005186	0.7163
Ti3361		2.538	ppm	0.04152	1.636
Tl1908		0.1547	ppm	0.001661	1.074
V2924		0.3893	ppm	0.001021	0.2622
Zn2062		0.9857	ppm	0.02058	2.087
Y371.030		8,365.3	Cts/S	16.969	0.20286
Y029A		136,930	Cts/S	845.39	0.61739
Y029R		532.74	Cts/S	1.9395	0.36406

720-91012-a-42-b

Acquire Date: 2/6/2019 9:41:12PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.00003400	ppm	0.0008810	2,605
Al3961		85.83	ppm	1.685	1.963
As1890		0.6440	ppm	0.02120	3.291
Au2427		0.3876	ppm	0.07190	18.55
B_2089		0.03661	ppm	0.0009810	2.681
Ba4934		0.4728	ppm	0.002573	0.5443
Be3130		0.002916	ppm	0.0005690	19.52
Ca3179		57.00	ppm	0.7676	1.347
Cd2144		0.002734	ppm	0.0002480	9.085
Co2286		0.09194	ppm	0.003546	3.857
Cr2677		0.4428	ppm	0.002711	0.6122
Cu327.39		0.2109	ppm	0.0001040	0.04929
Fe2395		149.4	ppm	1.869	1.251
K7694		4.374	ppm	0.01995	0.4562
Mg2790		38.26	ppm	0.6025	1.575
Mn2576		3.113	ppm	0.01562	0.5016
Mo2020		0.0005650	ppm	0.0004030	71.32
Na5895		6.107	ppm	0.04326	0.7083
Ni2316		0.3461	ppm	0.01240	3.581
Pb2203		0.2292	ppm	0.006687	2.917
Sb2068		0.01252	ppm	0.0001340	1.069
Se1960		0.006425	ppm	0.003158	49.15
Si2124		4.599	ppm	0.1180	2.565
Sn1899		0.01725	ppm	0.0003020	1.751
Sr4077		0.2920	ppm	0.005805	1.988
Ti3361		2.948	ppm	0.1005	3.408
Tl1908		0.1401	ppm	0.001056	0.7539
V2924		0.3516	ppm	0.002065	0.5874
Zn2062		0.8276	ppm	0.03051	3.687
Y371.030		8,435.2	Cts/S	31.486	0.37327

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91012-a-42-b

Acquire Date: 2/6/2019 9:41:12PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		139,280	Cts/S	1,011.2	0.72600
Y029R		507.11	Cts/S	3.3057	0.65187

ICV/CCV

Acquire Date: 2/6/2019 9:45:57PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2558	ppm	0.002756	1.077	.2500	Rel(%)	Pass	
Al3961		14.68	ppm	0.1059	0.7212	15.00	Rel(%)	Pass	
As1890		0.4924	ppm	0.0008770	0.1781	.5000	Rel(%)	Pass	
Au2427		-75.28	ppm	0.4898	0.6506				
B_2089	**W**	**0.5408**	**ppm**	**0.003324**	**0.6145**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ba4934		0.4755	ppm	0.003296	0.6932	.5000	Rel(%)	Pass	
Be3130		0.4856	ppm	0.002701	0.5562	.5000	Rel(%)	Pass	
Ca3179		14.41	ppm	0.1898	1.317	15.00	Rel(%)	Pass	
Cd2144	**W**	**0.5282**	**ppm**	**0.002884**	**0.5460**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Co2286	**W**	**0.5383**	**ppm**	**0.002686**	**0.4990**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677		0.5102	ppm	0.002021	0.3961	.5000	Rel(%)	Pass	
Cu327.39		0.5033	ppm	0.004804	0.9544	.5000	Rel(%)	Pass	
Fe2395		14.28	ppm	0.1676	1.174	15.00	Rel(%)	Pass	
K7694	**W**	**13.60**	**ppm**	**0.2124**	**1.561**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mg2790	**F**	**13.13**	**ppm**	**0.6462**	**4.922**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mn2576	**W**	**0.4701**	**ppm**	**0.002109**	**0.4486**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Mo2020		0.4999	ppm	0.0006200	0.1239	.5000	Rel(%)	Pass	
Na5895	**W**	**14.24**	**ppm**	**0.03775**	**0.2651**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Ni2316		0.5054	ppm	0.002846	0.5632	.5000	Rel(%)	Pass	
Pb2203	**W**	**0.5283**	**ppm**	**0.002905**	**0.5499**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Sb2068		0.5111	ppm	0.001205	0.2357	.5000	Rel(%)	Pass	
Se1960		0.5053	ppm	0.006025	1.192	.5000	Rel(%)	Pass	
Si2124		0.5774	ppm	0.0004570	0.07920				
Sn1899		0.5159	ppm	0.004634	0.8982	.5000	Rel(%)	Pass	
Sr4077		0.4767	ppm	0.004469	0.9375	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.4562**	**ppm**	**0.01008**	**2.209**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Tl1908		0.5130	ppm	0.002345	0.4572	.5000	Rel(%)	Pass	
V2924		0.5130	ppm	0.001355	0.2641	.5000	Rel(%)	Pass	
Zn2062		0.5196	ppm	0.002681	0.5159	.5000	Rel(%)	Pass	
Y371.030		8,125.6	Cts/S	43.440	0.53460				
Y029A		137,520	Cts/S	1,038.9	0.75545				
Y029R		512.26	Cts/S	0.71613	0.13980				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/6/2019 9:50:41PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.001601	ppm	0.0008970	56.00	.0000	Abs	Pass	
Al3961		0.01130	ppm	0.1086	960.9	.0000	Abs	Pass	
As1890		0.001803	ppm	0.0009740	54.05	.0000	Abs	Pass	
Au2427		-0.1899	ppm	0.09778	51.49				
B_2089		0.0006840	ppm	0.00006500	9.537	.0000	Abs	Pass	
Ba4934		-0.002382	ppm	0.0007000	29.38	.0000	Abs	Pass	
Be3130		0.0007800	ppm	0.0004140	53.08	.0000	Abs	Pass	
Ca3179		0.1439	ppm	0.1210	84.09	.0000	Abs	Pass	
Cd2144		0.0003530	ppm	0.00003200	9.111	.0000	Abs	Pass	
Co2286		0.0004130	ppm	0.0001020	24.78	.0000	Abs	Pass	
Cr2677		0.0005980	ppm	0.000008000	1.393	.0000	Abs	Pass	
Cu327.39		0.0004540	ppm	0.00002400	5.371	.0000	Abs	Pass	
Fe2395		0.1580	ppm	0.1451	91.81	.0000	Abs	Pass	
K7694		-0.8413	ppm	0.4031	47.91	.0000	Abs	Pass	
Mg2790		0.03582	ppm	0.3096	864.3	.0000	Abs	Pass	
Mn2576		0.003750	ppm	0.002431	64.83	.0000	Abs	Pass	
Mo2020		0.0001900	ppm	0.0002060	108.2	.0000	Abs	Pass	
Na5895		0.3683	ppm	0.01336	3.627	.0000	Abs	Pass	
Ni2316		0.0005030	ppm	0.00008400	16.60	.0000	Abs	Pass	
Pb2203		0.003711	ppm	0.0008860	23.89	.0000	Abs	Pass	
Sb2068		0.001363	ppm	0.0002240	16.46	.0000	Abs	Pass	
Se1960		0.001955	ppm	0.003274	167.4	.0000	Abs	Pass	
Si2124		0.004585	ppm	0.002821	61.53				
Sn1899		0.0004390	ppm	0.0001660	37.71	.0000	Abs	Pass	
Sr4077		0.001023	ppm	0.00002500	2.474	.0000	Abs	Pass	
Ti3361		-0.003889	ppm	0.004632	119.1	.0000	Abs	Pass	
Tl1908		0.002319	ppm	0.00002300	1.003	.0000	Abs	Pass	
V2924		0.001441	ppm	0.001004	69.66	.0000	Abs	Pass	
Zn2062		0.0001160	ppm	0.00006400	55.03	.0000	Abs	Pass	
Y371.030		8,317.3	Cts/S	24.625	0.29607				
Y029A		140,090	Cts/S	113.46	0.080990				
Y029R		489.31	Cts/S	4.7553	0.97183				

720-91105-f-1-a

Acquire Date: 2/6/2019 9:55:35PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.03371	ppm	0.001316	3.904
Al3961		55.36	ppm	0.2573	0.4647
As1890		0.1690	ppm	0.001880	1.113
Au2427		-11.36	ppm	0.5194	4.573
B_2089		0.2019	ppm	0.001398	0.6921
Ba4934		4.666	ppm	0.007481	0.1603
Be3130		0.002744	ppm	0.0008230	29.99
Ca3179		85.53	ppm	0.6308	0.7376
Cd2144		0.02764	ppm	0.0003790	1.371

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-1-a

Acquire Date: 2/6/2019 9:55:35PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		0.06138	ppm	0.001051	1.712
Cr2677		0.5004	ppm	0.001533	0.3064
Cu327.39		3.621	ppm	0.004449	0.1229
Fe2395		446.9	ppm	3.143	0.7032
K7694		6.346	ppm	0.2846	4.485
Mg2790		16.91	ppm	0.04661	0.2756
Mn2576		3.413	ppm	0.04660	1.365
Mo2020		0.005775	ppm	0.0003590	6.224
Na5895		4.955	ppm	0.1220	2.462
Ni2316		0.2922	ppm	0.001634	0.5592
Pb2203		27.53	ppm	0.2754	1.001
Sb2068		0.1646	ppm	0.002850	1.731
Se1960		0.03297	ppm	0.001369	4.154
Si2124		0.3231	ppm	0.001310	0.4055
Sn1899		4.043	ppm	0.04252	1.052
Sr4077		0.7449	ppm	0.0001070	0.01436
Ti3361		1.343	ppm	0.008526	0.6351
Tl1908		0.06951	ppm	0.001168	1.680
V2924		0.1862	ppm	0.0009920	0.5328
Zn2062		12.32	ppm	0.1143	0.9278
Y371.030		8,218.7	Cts/S	83.206	1.0124
Y029A		136,130	Cts/S	254.82	0.18718
Y029R		512.01	Cts/S	2.1488	0.41969

720-91105-f-2-a

Acquire Date: 2/6/2019 10:00:26PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.06257	ppm	0.002110	3.372
Al3961		86.11	ppm	0.3350	0.3890
As1890		0.1906	ppm	0.001820	0.9546
Au2427		-18.16	ppm	0.6381	3.514
B_2089		0.5207	ppm	0.002490	0.4782
Ba4934		10.47	ppm	0.03711	0.3544
Be3130		0.003086	ppm	0.0005330	17.25
Ca3179		246.4	ppm	2.759	1.120
Cd2144		0.06194	ppm	0.0006560	1.059
Co2286		0.08335	ppm	0.0007990	0.9580
Cr2677		2.167	ppm	0.004747	0.2190
Cu327.39		14.76	ppm	0.04517	0.3061
Fe2395		806.5	ppm	9.621	1.193
K7694		13.99	ppm	0.07407	0.5295
Mg2790		23.94	ppm	0.2421	1.011
Mn2576		6.919	ppm	0.008069	0.1166

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-2-a

Acquire Date: 2/6/2019 10:00:26PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.006299	ppm	0.0004220	6.698
Na5895		20.33	ppm	0.1229	0.6047
Ni2316		0.4373	ppm	0.003257	0.7449
Pb2203		43.30	ppm	0.3779	0.8726
Sb2068		0.2628	ppm	0.001454	0.5533
Se1960		0.05740	ppm	0.003198	5.571
Si2124		1.289	ppm	0.02862	2.221
Sn1899		8.306	ppm	0.07339	0.8836
Sr4077		1.665	ppm	0.006677	0.4011
Ti3361		2.270	ppm	0.09377	4.131
Tl1908		0.09496	ppm	0.002125	2.238
V2924		0.2597	ppm	0.0006250	0.2405
Zn2062		24.03	ppm	0.04635	0.1929
Y371.030		7,691.4	Cts/S	9.8882	0.12856
Y029A		132,670	Cts/S	4,767.2	3.5932
Y029R		500.65	Cts/S	5.6253	1.1236

720-91105-f-3-a

Acquire Date: 2/6/2019 10:05:21PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.04969	ppm	0.0005380	1.082
Al3961		102.7	ppm	0.2452	0.2386
As1890		0.2017	ppm	0.002707	1.342
Au2427		-22.69	ppm	0.5768	2.542
B_2089		0.9738	ppm	0.01036	1.064
Ba4934		8.570	ppm	0.03704	0.4322
Be3130		0.006280	ppm	0.0007250	11.55
Ca3179		379.6	ppm	7.752	2.042
Cd2144		0.03760	ppm	0.0003900	1.038
Co2286		0.08412	ppm	0.001235	1.468
Cr2677		0.2708	ppm	0.0004590	0.1693
Cu327.39		8.161	ppm	0.02429	0.2976
Fe2395		875.2	ppm	18.84	2.153
K7694		19.53	ppm	0.3656	1.872
Mg2790		21.48	ppm	0.06791	0.3162
Mn2576		8.640	ppm	0.03289	0.3806
Mo2020		0.01045	ppm	0.00008700	0.8365
Na5895		27.05	ppm	0.6078	2.247
Ni2316		0.3347	ppm	0.004568	1.365
Pb2203		45.69	ppm	0.5352	1.171
Sb2068		0.4034	ppm	0.007439	1.844
Se1960		0.05658	ppm	0.0003740	0.6616
Si2124		0.5252	ppm	0.01148	2.186
Sn1899		10.76	ppm	0.1173	1.090

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-3-a

Acquire Date: 2/6/2019 10:05:21PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sr4077		2.922	ppm	0.003739	0.1280
Ti3361		3.651	ppm	0.001293	0.03540
Tl1908		0.07837	ppm	0.002410	3.075
V2924		0.2196	ppm	0.0008300	0.3781
Zn2062		18.78	ppm	0.2366	1.260
Y371.030		7,688.5	Cts/S	16.750	0.21785
Y029A		135,430	Cts/S	82.032	0.060570
Y029R		523.07	Cts/S	8.9775	1.7163

720-91105-f-4-a

Acquire Date: 2/6/2019 10:10:14PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0003490	ppm	0.0001880	53.76
Al3961		101.5	ppm	1.264	1.246
As1890		0.3260	ppm	0.003121	0.9573
Au2427		-4.440	ppm	0.1140	2.567
B_2089		0.01801	ppm	0.0003090	1.716
Ba4934		0.6950	ppm	0.009129	1.314
Be3130		0.0007270	ppm	0.0004890	67.24
Ca3179		62.66	ppm	2.889	4.611
Cd2144		0.007269	ppm	0.0001140	1.574
Co2286		0.07574	ppm	0.0002400	0.3173
Cr2677		0.2241	ppm	0.00005000	0.02246
Cu327.39		0.9623	ppm	0.003977	0.4133
Fe2395		214.8	ppm	9.571	4.456
K7694		2.944	ppm	0.08087	2.747
Mg2790		29.91	ppm	0.1117	0.3735
Mn2576		2.322	ppm	0.01785	0.7687
Mo2020		0.01885	ppm	0.0001790	0.9502
Na5895		10.33	ppm	0.3837	3.716
Ni2316		0.2079	ppm	0.001930	0.9283
Pb2203		1.369	ppm	0.01476	1.078
Sb2068		0.02001	ppm	0.0008000	4.000
Se1960		0.01070	ppm	0.003546	33.14
Si2124		0.5170	ppm	0.02185	4.226
Sn1899		0.1205	ppm	0.002200	1.826
Sr4077		0.4252	ppm	0.005105	1.201
Ti3361		3.187	ppm	0.03007	0.9434
Tl1908		0.1741	ppm	0.0007250	0.4164
V2924		0.4431	ppm	0.002939	0.6632
Zn2062		1.961	ppm	0.01090	0.5559
Y371.030		8,119.8	Cts/S	12.948	0.15947
Y029A		135,190	Cts/S	1,369.3	1.0128

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-4-a

Acquire Date: 2/6/2019 10:10:14PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029R		485.66	Cts/S	18.827	3.8765

720-91105-f-5-a

Acquire Date: 2/6/2019 10:14:59PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0009950	ppm	0.0002950	29.69
Al3961		199.9	ppm	1.678	0.8391
As1890		0.8701	ppm	0.01263	1.452
Au2427		-5.185	ppm	0.3838	7.402
B_2089		0.01591	ppm	0.0002060	1.294
Ba4934		0.9659	ppm	0.007136	0.7388
Be3130		0.001157	ppm	0.00006400	5.501
Ca3179		113.1	ppm	0.2644	0.2338
Cd2144		0.004563	ppm	0.0002450	5.361
Co2286		0.07245	ppm	0.001426	1.969
Cr2677		0.1555	ppm	0.0006840	0.4395
Cu327.39		0.9981	ppm	0.007443	0.7457
Fe2395		253.2	ppm	0.5800	0.2291
K7694		5.881	ppm	0.07672	1.304
Mg2790		43.12	ppm	0.1202	0.2787
Mn2576		2.546	ppm	0.0006460	0.02539
Mo2020		0.002200	ppm	0.0004940	22.46
Na5895		25.89	ppm	0.02024	0.07817
Ni2316		0.1389	ppm	0.001451	1.044
Pb2203		1.118	ppm	0.02695	2.411
Sb2068		0.01948	ppm	0.0002110	1.082
Se1960		0.008935	ppm	0.00002600	0.2887
Si2124		1.010	ppm	0.005809	0.5754
Sn1899		0.08473	ppm	0.003164	3.734
Sr4077		0.6059	ppm	0.002596	0.4284
Ti3361		2.332	ppm	0.01350	0.5789
Tl1908		0.2322	ppm	0.004509	1.942
V2924		0.5838	ppm	0.003090	0.5293
Zn2062		1.997	ppm	0.03946	1.976
Y371.030		7,977.5	Cts/S	13.750	0.17236
Y029A		129,890	Cts/S	128.34	0.098809
Y029R		481.86	Cts/S	3.0679	0.63668

720-91105-f-6-a

Acquire Date: 2/6/2019 10:19:41PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.003141	ppm	0.00008400	2.685
Al3961		239.2	ppm	1.945	0.8130
As1890		0.07019	ppm	0.0008300	1.182
Au2427		-3.290	ppm	0.4206	12.78
B_2089		0.008759	ppm	0.0001080	1.238
Ba4934		0.2957	ppm	0.009422	3.186
Be3130		0.0008940	ppm	0.0003070	34.40
Ca3179		145.9	ppm	0.5778	0.3960
Cd2144		0.001918	ppm	0.0001130	5.885
Co2286		0.09006	ppm	0.001772	1.968
Cr2677		0.09994	ppm	0.0006840	0.6847
Cu327.39		0.9890	ppm	0.001577	0.1595
Fe2395		210.0	ppm	0.4042	0.1925
K7694		6.950	ppm	0.2760	3.972
Mg2790		53.66	ppm	0.4317	0.8044
Mn2576		2.612	ppm	0.006391	0.2447
Mo2020		0.0009760	ppm	0.0001230	12.56
Na5895		20.09	ppm	0.01595	0.07936
Ni2316		0.05200	ppm	0.0003940	0.7577
Pb2203		0.1724	ppm	0.01268	7.352
Sb2068		0.003500	ppm	0.002100	60.01
Se1960		-0.002439	ppm	0.003064	125.6
Si2124		0.6298	ppm	0.01745	2.770
Sn1899		0.02360	ppm	0.002067	8.758
Sr4077		0.7415	ppm	0.009931	1.339
Ti3361		2.725	ppm	0.03229	1.185
Tl1908		0.3439	ppm	0.003551	1.033
V2924		0.8614	ppm	0.006182	0.7177
Zn2062		0.4329	ppm	0.01221	2.821
Y371.030		8,086.9	Cts/S	20.231	0.25017
Y029A		130,770	Cts/S	311.59	0.23828
Y029R		483.72	Cts/S	6.7566	1.3968

720-91105-f-7-a

Acquire Date: 2/6/2019 10:24:28PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0008080	ppm	0.0003780	46.81
Al3961		119.6	ppm	0.7700	0.6438
As1890		1.170	ppm	0.02755	2.355
Au2427		-2.826	ppm	0.1620	5.731
B_2089		0.01525	ppm	0.0005230	3.433
Ba4934		0.4673	ppm	0.003551	0.7599
Be3130		0.001391	ppm	0.0006310	45.35
Ca3179		85.84	ppm	0.7048	0.8211

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-7-a

Acquire Date: 2/6/2019 10:24:28PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.003750	ppm	0.0001450	3.861
Co2286		0.07465	ppm	0.001436	1.924
Cr2677		0.1737	ppm	0.001333	0.7674
Cu327.39		0.6848	ppm	0.001645	0.2402
Fe2395		189.1	ppm	1.532	0.8102
K7694		6.817	ppm	0.03058	0.4486
Mg2790		40.24	ppm	0.5942	1.477
Mn2576		2.299	ppm	0.01265	0.5501
Mo2020		0.0008310	ppm	0.00002200	2.646
Na5895		11.27	ppm	0.02802	0.2486
Ni2316		0.1672	ppm	0.002431	1.454
Pb2203		0.4750	ppm	0.004501	0.9476
Sb2068		0.02028	ppm	0.0004080	2.011
Se1960		0.009903	ppm	0.005843	59.00
Si2124		0.8763	ppm	0.02270	2.590
Sn1899		0.02539	ppm	0.0001570	0.6177
Sr4077		0.3802	ppm	0.002071	0.5448
Ti3361		2.122	ppm	0.009119	0.4298
Tl1908		0.1617	ppm	0.0004240	0.2621
V2924		0.4042	ppm	0.001239	0.3066
Zn2062		0.7948	ppm	0.01301	1.637
Y371.030		8,166.8	Cts/S	21.453	0.26268
Y029A		133,680	Cts/S	237.47	0.17764
Y029R		484.56	Cts/S	0.72478	0.14958

720-91105-f-8-a

Acquire Date: 2/6/2019 10:29:13PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0008470	ppm	0.00003000	3.563
Al3961		75.55	ppm	0.1750	0.2317
As1890		0.04637	ppm	0.002687	5.795
Au2427		-1.231	ppm	0.3273	26.59
B_2089		0.05243	ppm	0.001994	3.803
Ba4934		0.4093	ppm	0.001533	0.3744
Be3130		0.0007170	ppm	0.0005340	74.55
Ca3179		99.24	ppm	0.1322	0.1333
Cd2144		0.006517	ppm	0.00008000	1.221
Co2286		0.04699	ppm	0.0009750	2.074
Cr2677		0.3810	ppm	0.001066	0.2798
Cu327.39		0.4953	ppm	0.00004600	0.009326
Fe2395		122.7	ppm	1.063	0.8662
K7694		2.676	ppm	0.06969	2.604
Mg2790		24.43	ppm	0.05151	0.2108

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-8-a

Acquire Date: 2/6/2019 10:29:13PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		1.752	ppm	0.003937	0.2247
Mo2020		0.005341	ppm	0.00009300	1.748
Na5895		3.358	ppm	0.02732	0.8137
Ni2316		0.1295	ppm	0.002815	2.175
Pb2203		1.329	ppm	0.03281	2.469
Sb2068		0.01680	ppm	0.002617	15.58
Se1960		-0.0004910	ppm	0.002658	541.0
Si2124		0.6094	ppm	0.01608	2.638
Sn1899		0.06106	ppm	0.003614	5.919
Sr4077		0.1846	ppm	0.001333	0.7219
Ti3361		1.725	ppm	0.004314	0.2500
Tl1908		0.1211	ppm	0.0002160	0.1786
V2924		0.3074	ppm	0.0008080	0.2630
Zn2062		3.533	ppm	0.08631	2.443
Y371.030		8,159.7	Cts/S	13.984	0.17138
Y029A		133,670	Cts/S	374.26	0.27999
Y029R		485.51	Cts/S	0.12374	0.025487

720-91105-f-9-a

Acquire Date: 2/6/2019 10:33:58PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0002050	ppm	0.0002000	97.71
Al3961		175.1	ppm	2.616	1.494
As1890		0.03178	ppm	0.003387	10.66
Au2427		-3.352	ppm	0.2860	8.532
B_2089		0.03799	ppm	0.001727	4.547
Ba4934		0.5700	ppm	0.007083	1.243
Be3130		0.002935	ppm	0.0004530	15.45
Ca3179		107.0	ppm	7.550	7.055
Cd2144		0.003025	ppm	0.00009200	3.038
Co2286		0.1409	ppm	0.001321	0.9379
Cr2677		0.9906	ppm	0.002703	0.2729
Cu327.39		0.4950	ppm	0.0006690	0.1351
Fe2395		308.2	ppm	22.64	7.344
K7694		6.501	ppm	0.1475	2.268
Mg2790		134.1	ppm	3.482	2.596
Mn2576		3.992	ppm	0.01251	0.3133
Mo2020		0.002151	ppm	0.0001000	4.648
Na5895		1.710	ppm	0.1120	6.548
Ni2316		0.9483	ppm	0.01141	1.203
Pb2203		0.1154	ppm	0.008064	6.990
Sb2068		0.03229	ppm	0.001735	5.372
Se1960		0.01436	ppm	0.003760	26.19
Si2124		1.110	ppm	0.08367	7.539

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-9-a

Acquire Date: 2/6/2019 10:33:58PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.03002	ppm	0.001397	4.653
Sr4077		0.1699	ppm	0.0003710	0.2185
Ti3361		12.72	ppm	0.2467	1.940
Tl1908		0.2677	ppm	0.001288	0.4811
V2924		0.6888	ppm	0.00003900	0.005724
Zn2062		0.6292	ppm	0.009759	1.551
Y371.030		8,375.9	Cts/S	2.7205	0.032480
Y029A		137,430	Cts/S	518.38	0.37719
Y029R		475.10	Cts/S	25.173	5.2985

720-91105-f-10-a

Acquire Date: 2/6/2019 10:38:47PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.00004900	ppm	0.001148	2,322
Al3961		122.1	ppm	1.364	1.118
As1890		0.06377	ppm	0.002201	3.451
Au2427		0.9791	ppm	0.1769	18.07
B_2089		0.02425	ppm	0.001359	5.604
Ba4934		0.3536	ppm	0.004251	1.202
Be3130		0.007029	ppm	0.0005250	7.471
Ca3179		86.32	ppm	0.5560	0.6441
Cd2144		0.003121	ppm	0.00004500	1.453
Co2286		0.1162	ppm	0.002134	1.836
Cr2677		0.2583	ppm	0.003390	1.312
Cu327.39		0.4169	ppm	0.006918	1.660
Fe2395		194.9	ppm	1.283	0.6584
K7694		9.347	ppm	0.2010	2.151
Mg2790		69.35	ppm	0.8207	1.184
Mn2576		4.560	ppm	0.06717	1.473
Mo2020		0.001710	ppm	0.0003430	20.08
Na5895		1.743	ppm	0.05709	3.276
Ni2316		0.2607	ppm	0.004064	1.559
Pb2203		0.1631	ppm	0.0008590	0.5270
Sb2068		0.01449	ppm	0.001734	11.97
Se1960		0.01157	ppm	0.002108	18.22
Si2124		1.296	ppm	0.006474	0.4996
Sn1899		0.01413	ppm	0.00004300	0.3074
Sr4077		0.3218	ppm	0.002942	0.9142
Ti3361		1.408	ppm	0.003660	0.2599
Tl1908		0.1186	ppm	0.002197	1.852
V2924		0.3015	ppm	0.003101	1.028
Zn2062		0.7293	ppm	0.008253	1.132
Y371.030		8,667.4	Cts/S	9.7810	0.11285

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-10-a

Acquire Date: 2/6/2019 10:38:47PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		144,360	Cts/S	908.70	0.62947
Y029R		533.25	Cts/S	2.6517	0.49726

ICV/CCV

Acquire Date: 2/6/2019 10:43:39PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2607	ppm	0.003784	1.452	.2500	Rel(%)	Pass	
Al3961		15.20	ppm	0.2270	1.493	15.00	Rel(%)	Pass	
As1890		0.4911	ppm	0.001166	0.2374	.5000	Rel(%)	Pass	
Au2427		-82.89	ppm	3.783	4.563				
B_2089	**W**	**0.5401**	**ppm**	**0.001141**	**0.2112**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ba4934		0.4927	ppm	0.001273	0.2584	.5000	Rel(%)	Pass	
Be3130		0.4976	ppm	0.002065	0.4150	.5000	Rel(%)	Pass	
Ca3179	**W**	**15.86**	**ppm**	**0.01893**	**0.1193**	**15.00**	**Rel(%)**	**Warn High**	**5.000**
Cd2144	**W**	**0.5266**	**ppm**	**0.001839**	**0.3492**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Co2286	**W**	**0.5381**	**ppm**	**0.001591**	**0.2957**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677		0.5209	ppm	0.004796	0.9206	.5000	Rel(%)	Pass	
Cu327.39		0.5169	ppm	0.008905	1.723	.5000	Rel(%)	Pass	
Fe2395		15.57	ppm	0.07256	0.4661	15.00	Rel(%)	Pass	
K7694	**F**	**13.37**	**ppm**	**0.1247**	**0.9326**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mg2790	**W**	**13.99**	**ppm**	**0.1746**	**1.248**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Mn2576		0.4800	ppm	0.006179	1.287	.5000	Rel(%)	Pass	
Mo2020		0.5003	ppm	0.001954	0.3905	.5000	Rel(%)	Pass	
Na5895		15.39	ppm	0.1417	0.9211	15.00	Rel(%)	Pass	
Ni2316		0.5023	ppm	0.002402	0.4782	.5000	Rel(%)	Pass	
Pb2203		0.5247	ppm	0.002407	0.4588	.5000	Rel(%)	Pass	
Sb2068		0.5093	ppm	0.001757	0.3449	.5000	Rel(%)	Pass	
Se1960		0.5011	ppm	0.001277	0.2548	.5000	Rel(%)	Pass	
Si2124		0.6225	ppm	0.003533	0.5675				
Sn1899		0.5137	ppm	0.001761	0.3428	.5000	Rel(%)	Pass	
Sr4077		0.4979	ppm	0.0005340	0.1072	.5000	Rel(%)	Pass	
Ti3361		0.5107	ppm	0.03213	6.291	.5000	Rel(%)	Pass	
Tl1908		0.5158	ppm	0.0002210	0.04288	.5000	Rel(%)	Pass	
V2924		0.5237	ppm	0.004801	0.9168	.5000	Rel(%)	Pass	
Zn2062		0.5188	ppm	0.003106	0.5986	.5000	Rel(%)	Pass	
Y371.030		8,185.9	Cts/S	27.442	0.33523				
Y029A		125,530	Cts/S	5,022.4	4.0008				
Y029R		477.40	Cts/S	1.3381	0.28029				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/6/2019 10:48:23PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0006360	ppm	0.0004470	70.20	.0000	Abs	Pass	
Al3961		0.02677	ppm	0.01263	47.17	.0000	Abs	Pass	
As1890		0.0003160	ppm	0.0007620	241.0	.0000	Abs	Pass	
Au2427		-0.04863	ppm	0.04049	83.27				
B_2089		0.001078	ppm	0.00009700	9.003	.0000	Abs	Pass	
Ba4934		-0.002157	ppm	0.0006210	28.77	.0000	Abs	Pass	
Be3130		0.0004160	ppm	0.0001180	28.31	.0000	Abs	Pass	
Ca3179		0.007141	ppm	0.04025	563.6	.0000	Abs	Pass	
Cd2144		0.0003280	ppm	0.0001480	45.24	.0000	Abs	Pass	
Co2286		0.0002850	ppm	0.0005770	202.6	.0000	Abs	Pass	
Cr2677		0.0003480	ppm	0.0003370	96.70	.0000	Abs	Pass	
Cu327.39		0.001699	ppm	0.001316	77.46	.0000	Abs	Pass	
Fe2395		0.06546	ppm	0.09395	143.5	.0000	Abs	Pass	
K7694		-0.6813	ppm	0.3004	44.10	.0000	Abs	Pass	
Mg2790		-0.1401	ppm	0.4072	290.7	.0000	Abs	Pass	
Mn2576		0.003530	ppm	0.003562	100.9	.0000	Abs	Pass	
Mo2020		0.0001680	ppm	0.00002900	17.57	.0000	Abs	Pass	
Na5895		0.1463	ppm	0.09542	65.20	.0000	Abs	Pass	
Ni2316		0.0006820	ppm	0.0003070	44.97	.0000	Abs	Pass	
Pb2203		0.001525	ppm	0.003622	237.5	.0000	Abs	Pass	
Sb2068		0.0004780	ppm	0.001208	252.5	.0000	Abs	Pass	
Se1960		-0.001208	ppm	0.004203	347.8	.0000	Abs	Pass	
Si2124		0.002765	ppm	0.002523	91.25				
Sn1899		-0.0002860	ppm	0.0002140	74.75	.0000	Abs	Pass	
Sr4077		0.0004160	ppm	0.0006260	150.3	.0000	Abs	Pass	
Ti3361		-0.006233	ppm	0.002966	47.58	.0000	Abs	Pass	
Tl1908		-0.00007100	ppm	0.0007630	1,068	.0000	Abs	Pass	
V2924		0.001035	ppm	0.001606	155.2	.0000	Abs	Pass	
Zn2062		0.0009460	ppm	0.0007030	74.30	.0000	Abs	Pass	
Y371.030		8,571.4	Cts/S	41.704	0.48655				
Y029A		143,650	Cts/S	1,320.5	0.91926				
Y029R		490.66	Cts/S	3.9421	0.80343				

720-91105-f-11-a

Acquire Date: 2/6/2019 10:53:18PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001096	ppm	0.0007200	65.67
Al3961		100.7	ppm	0.2447	0.2430
As1890		0.03785	ppm	0.001862	4.920
Au2427		0.4274	ppm	0.1480	34.64
B_2089		0.01206	ppm	0.00009600	0.7935
Ba4934		0.4197	ppm	0.0003750	0.08929
Be3130		0.004914	ppm	0.0003970	8.082
Ca3179		36.46	ppm	1.233	3.381
Cd2144		0.001800	ppm	0.00001500	0.8283

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-11-a

Acquire Date: 2/6/2019 10:53:18PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		0.05998	ppm	0.001744	2.908
Cr2677		0.2565	ppm	0.001955	0.7622
Cu327.39		0.1730	ppm	0.002575	1.488
Fe2395		162.5	ppm	5.093	3.135
K7694		4.725	ppm	0.3206	6.785
Mg2790		46.74	ppm	0.7987	1.709
Mn2576		3.325	ppm	0.009203	0.2768
Mo2020		0.002216	ppm	0.0002890	13.03
Na5895		1.721	ppm	0.1380	8.022
Ni2316		0.2032	ppm	0.005414	2.665
Pb2203		0.1056	ppm	0.002212	2.095
Sb2068		0.009876	ppm	0.003496	35.40
Se1960		0.007486	ppm	0.001894	25.30
Si2124		1.836	ppm	0.09606	5.233
Sn1899		0.01734	ppm	0.0002510	1.450
Sr4077		0.2444	ppm	0.0001780	0.07277
Ti3361		1.861	ppm	0.01920	1.031
Tl1908		0.1309	ppm	0.0007670	0.5859
V2924		0.3323	ppm	0.002233	0.6719
Zn2062		0.4538	ppm	0.01174	2.586
Y371.030		8,709.0	Cts/S	8.9555	0.10283
Y029A		144,590	Cts/S	471.07	0.32580
Y029R		521.96	Cts/S	14.195	2.7196

720-91105-f-12-a

Acquire Date: 2/6/2019 10:58:10PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001620	ppm	0.0002290	14.16
Al3961		132.1	ppm	0.4299	0.3253
As1890		0.02533	ppm	0.002250	8.883
Au2427		-2.310	ppm	0.2989	12.94
B_2089		0.03261	ppm	0.0001510	0.4620
Ba4934		0.3115	ppm	0.006917	2.221
Be3130		0.002882	ppm	0.0004970	17.25
Ca3179		74.42	ppm	1.277	1.716
Cd2144		0.003102	ppm	0.00009700	3.133
Co2286		0.1155	ppm	0.0007040	0.6094
Cr2677		0.9110	ppm	0.001603	0.1759
Cu327.39		0.4559	ppm	0.00001300	0.002893
Fe2395		229.6	ppm	3.254	1.417
K7694		5.663	ppm	0.06128	1.082
Mg2790		114.6	ppm	0.3860	0.3366
Mn2576		3.221	ppm	0.01033	0.3207

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-12-a

Acquire Date: 2/6/2019 10:58:10PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.0007390	ppm	0.0002590	35.12
Na5895		1.129	ppm	0.04279	3.789
Ni2316		0.9256	ppm	0.009445	1.020
Pb2203		0.1394	ppm	0.0003740	0.2685
Sb2068		0.03192	ppm	0.0009830	3.079
Se1960		0.009041	ppm	0.0009510	10.52
Si2124		1.115	ppm	0.01727	1.549
Sn1899		0.02549	ppm	0.0001150	0.4512
Sr4077		0.1624	ppm	0.0007170	0.4417
Ti3361		10.56	ppm	0.07385	0.6993
Tl1908		0.2282	ppm	0.001579	0.6921
V2924		0.5878	ppm	0.0009370	0.1594
Zn2062		0.7383	ppm	0.006939	0.9398
Y371.030		8,349.6	Cts/S	22.504	0.26952
Y029A		137,930	Cts/S	90.819	0.065842
Y029R		505.61	Cts/S	4.4371	0.87757

720-91105-f-13-a

Acquire Date: 2/6/2019 11:02:54PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0007730	ppm	0.0003560	46.02
Al3961		83.65	ppm	0.1517	0.1813
As1890		0.7120	ppm	0.008817	1.238
Au2427		-2.456	ppm	0.09638	3.925
B_2089		0.02493	ppm	0.0003310	1.326
Ba4934		0.4952	ppm	0.001007	0.2034
Be3130		0.002438	ppm	0.00007400	3.016
Ca3179		32.63	ppm	0.6190	1.897
Cd2144		0.009943	ppm	0.00009700	0.9769
Co2286		0.07460	ppm	0.001994	2.673
Cr2677		0.4778	ppm	0.005184	1.085
Cu327.39		0.3298	ppm	0.004255	1.290
Fe2395		167.3	ppm	3.789	2.264
K7694		4.067	ppm	0.4404	10.83
Mg2790		26.92	ppm	0.9322	3.463
Mn2576		1.858	ppm	0.02264	1.218
Mo2020		0.002049	ppm	0.0001010	4.913
Na5895		3.171	ppm	0.1376	4.340
Ni2316		0.2216	ppm	0.005019	2.265
Pb2203		1.222	ppm	0.03376	2.763
Sb2068		0.02105	ppm	0.0002740	1.302
Se1960		0.008383	ppm	0.002606	31.09
Si2124		0.6711	ppm	0.005486	0.8175
Sn1899		0.1014	ppm	0.002113	2.084

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-13-a

Acquire Date: 2/6/2019 11:02:54PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sr4077		0.1320	ppm	0.002287	1.733
Ti3361		2.147	ppm	0.1222	5.694
Tl1908		0.1440	ppm	0.0006390	0.4433
V2924		0.3614	ppm	0.005005	1.385
Zn2062		2.189	ppm	0.05834	2.665
Y371.030		8,481.5	Cts/S	91.509	1.0789
Y029A		146,700	Cts/S	7,600.9	5.1813
Y029R		503.85	Cts/S	9.2277	1.8314

720-91105-f-14-a

Acquire Date: 2/6/2019 11:07:39PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.1212	ppm	0.0008200	0.6767
Al3961		67.48	ppm	0.1642	0.2433
As1890		0.3086	ppm	0.005126	1.661
Au2427		10.47	ppm	0.04186	0.3999
B_2089		0.4247	ppm	0.005403	1.272
Ba4934		5.450	ppm	0.01215	0.2229
Be3130		0.003377	ppm	0.00002200	0.6583
Ca3179		372.0	ppm	5.269	1.416
Cd2144		0.1023	ppm	0.001681	1.643
Co2286		0.05957	ppm	0.001475	2.476
Cr2677		0.4053	ppm	0.001183	0.2919
Cu327.39		11.69	ppm	0.03093	0.2646
Fe2395		525.2	ppm	7.859	1.496
K7694		9.963	ppm	0.1985	1.992
Mg2790		35.26	ppm	0.09151	0.2595
Mn2576		14.13	ppm	0.0006240	0.004415
Mo2020		-0.007092	ppm	0.0002950	4.162
Na5895		19.35	ppm	0.2680	1.385
Ni2316		0.3440	ppm	0.005268	1.531
Pb2203		42.67	ppm	0.6218	1.457
Sb2068		0.8270	ppm	0.007309	0.8838
Se1960		0.03231	ppm	0.001696	5.250
Si2124		0.8910	ppm	0.02224	2.496
Sn1899		18.51	ppm	0.2724	1.471
Sr4077		2.387	ppm	0.008619	0.3611
Ti3361		2.141	ppm	0.01243	0.5807
Tl1908		0.1029	ppm	0.0009370	0.9105
V2924		0.2570	ppm	0.0004270	0.1660
Zn2062		84.05	ppm	1.668	1.984
Y371.030		7,927.7	Cts/S	35.362	0.44606
Y029A		131,220	Cts/S	1,015.2	0.77370

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-91105-f-14-a

Acquire Date: 2/6/2019 11:07:39PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029R		492.75	Cts/S	8.0333	1.6303

720-90960-a-13-b

Acquire Date: 2/6/2019 11:12:44PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.02152	ppm	0.0005660	2.629
Al3961		72.83	ppm	0.05162	0.07087
As1890		0.03663	ppm	0.0005250	1.434
Au2427		1.355	ppm	0.2645	19.52
B_2089		0.03637	ppm	0.0005200	1.430
Ba4934		0.9136	ppm	0.0008710	0.09535
Be3130		0.001879	ppm	0.0006640	35.36
Ca3179		105.1	ppm	0.9392	0.8935
Cd2144		0.009390	ppm	0.0001910	2.030
Co2286		0.06147	ppm	0.001365	2.220
Cr2677		0.9971	ppm	0.008549	0.8574
Cu327.39		0.3059	ppm	0.0005970	0.1951
Fe2395		147.5	ppm	1.950	1.322
K7694		6.160	ppm	0.3393	5.508
Mg2790		39.99	ppm	0.2562	0.6407
Mn2576		3.259	ppm	0.04190	1.285
Mo2020		0.03085	ppm	0.001033	3.348
Na5895		7.513	ppm	0.02752	0.3662
Ni2316		0.2745	ppm	0.004970	1.810
Pb2203		2.432	ppm	0.05128	2.108
Sb2068		0.02749	ppm	0.0008960	3.261
Se1960		0.007253	ppm	0.0009810	13.52
Si2124		7.637	ppm	0.1313	1.719
Sn1899		0.03960	ppm	0.007516	18.98
Sr4077		0.3481	ppm	0.002434	0.6993
Ti3361		2.906	ppm	0.03530	1.215
Tl1908		0.1070	ppm	0.001410	1.318
V2924		0.2734	ppm	0.001648	0.6028
Zn2062		2.015	ppm	0.07095	3.521
Y371.030		8,338.8	Cts/S	29.917	0.35877
Y029A		137,570	Cts/S	132.76	0.096507
Y029R		498.50	Cts/S	2.1209	0.42546

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-14-b

Acquire Date: 2/6/2019 11:17:36PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.0004170	ppm	0.0008600	205.9
Al3961		85.49	ppm	0.4853	0.5677
As1890		0.04478	ppm	0.002671	5.964
Au2427		-0.2633	ppm	0.1688	64.11
B_2089		0.02855	ppm	0.0001150	0.4025
Ba4934		1.492	ppm	0.003092	0.2072
Be3130		0.002829	ppm	0.0001130	3.978
Ca3179		276.3	ppm	0.4085	0.1478
Cd2144		0.005620	ppm	0.00004500	0.7965
Co2286		0.08257	ppm	0.001390	1.684
Cr2677		2.048	ppm	0.005608	0.2739
Cu327.39		0.5070	ppm	0.003499	0.6902
Fe2395		161.2	ppm	0.3860	0.2394
K7694		6.479	ppm	0.07802	1.204
Mg2790		38.52	ppm	0.1507	0.3912
Mn2576		2.861	ppm	0.001552	0.05424
Mo2020		0.001630	ppm	0.00008800	5.394
Na5895		3.022	ppm	0.008039	0.2660
Ni2316		0.3227	ppm	0.004403	1.364
Pb2203		0.7782	ppm	0.01023	1.315
Sb2068		0.03201	ppm	0.001688	5.271
Se1960		0.005684	ppm	0.00004900	0.8575
Si2124		8.683	ppm	0.1290	1.486
Sn1899		0.03957	ppm	0.0009360	2.366
Sr4077		0.5696	ppm	0.003374	0.5924
Ti3361		3.281	ppm	0.05130	1.563
Tl1908		0.1564	ppm	0.0007530	0.4814
V2924		0.3989	ppm	0.001848	0.4632
Zn2062		2.260	ppm	0.03266	1.445
Y371.030		8,252.9	Cts/S	34.576	0.41896
Y029A		137,500	Cts/S	576.96	0.41960
Y029R		509.25	Cts/S	2.7644	0.54283

720-90960-a-15-b

Acquire Date: 2/6/2019 11:22:22PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0009030	ppm	0.0008840	97.87
Al3961		111.3	ppm	1.267	1.139
As1890		0.03744	ppm	0.0006950	1.858
Au2427		-0.4289	ppm	0.3755	87.56
B_2089		0.01482	ppm	0.0009160	6.182
Ba4934		0.6416	ppm	0.01121	1.747
Be3130		0.002841	ppm	0.0004940	17.38
Ca3179		38.69	ppm	0.3505	0.9061

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-15-b

Acquire Date: 2/6/2019 11:22:22PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.002746	ppm	0.00007900	2.886
Co2286		0.1071	ppm	0.001395	1.303
Cr2677		0.6275	ppm	0.005284	0.8422
Cu327.39		0.1907	ppm	0.002128	1.116
Fe2395		175.3	ppm	1.657	0.9450
K7694		5.864	ppm	0.3722	6.347
Mg2790		35.16	ppm	0.5944	1.691
Mn2576		3.272	ppm	0.06504	1.988
Mo2020		0.001041	ppm	0.0002430	23.32
Na5895		0.7835	ppm	0.1491	19.03
Ni2316		0.7262	ppm	0.006182	0.8513
Pb2203		0.1901	ppm	0.005299	2.788
Sb2068		0.01729	ppm	0.0009200	5.322
Se1960		0.005700	ppm	0.002079	36.48
Si2124		11.03	ppm	0.08392	0.7608
Sn1899		0.02163	ppm	0.0004180	1.932
Sr4077		0.1491	ppm	0.00003600	0.02390
Ti3361		4.758	ppm	0.03798	0.7981
Tl1908		0.1900	ppm	0.001149	0.6046
V2924		0.4784	ppm	0.003088	0.6454
Zn2062		0.3912	ppm	0.008269	2.114
Y371.030		8,555.0	Cts/S	11.325	0.13238
Y029A		141,330	Cts/S	703.88	0.49806
Y029R		518.00	Cts/S	1.1314	0.21841

720-90960-a-16-b

Acquire Date: 2/6/2019 11:27:12PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0009010	ppm	0.0003580	39.72
Al3961		96.15	ppm	1.317	1.370
As1890		0.01934	ppm	0.0004090	2.117
Au2427		-3.125	ppm	0.3518	11.26
B_2089		0.01932	ppm	0.0002710	1.402
Ba4934		0.7927	ppm	0.01276	1.609
Be3130		0.001680	ppm	0.0009160	54.51
Ca3179		29.05	ppm	0.07147	0.2460
Cd2144		0.001830	ppm	0.00001000	0.5561
Co2286		0.06051	ppm	0.0009710	1.605
Cr2677		0.5545	ppm	0.003936	0.7099
Cu327.39		0.07480	ppm	0.0008650	1.156
Fe2395		170.6	ppm	0.2195	0.1287
K7694		3.821	ppm	0.09359	2.449
Mg2790		18.62	ppm	0.6016	3.230

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-16-b

Acquire Date: 2/6/2019 11:27:12PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		1.845	ppm	0.01479	0.8015
Mo2020		-0.0001940	ppm	0.0001970	101.2
Na5895		0.8460	ppm	0.06987	8.259
Ni2316		0.1983	ppm	0.002743	1.383
Pb2203		0.05568	ppm	0.00004500	0.08042
Sb2068		0.01666	ppm	0.002065	12.40
Se1960		0.009715	ppm	0.005745	59.14
Si2124		10.40	ppm	0.03090	0.2972
Sn1899		0.01713	ppm	0.0004080	2.383
Sr4077		0.08514	ppm	0.0009560	1.123
Ti3361		5.697	ppm	0.04014	0.7045
Tl1908		0.2105	ppm	0.001003	0.4763
V2924		0.5337	ppm	0.004768	0.8935
Zn2062		0.2510	ppm	0.0008880	0.3537
Y371.030		8,483.8	Cts/S	35.763	0.42154
Y029A		139,010	Cts/S	683.12	0.49141
Y029R		496.76	Cts/S	3.9421	0.79356

720-90960-a-17-b

Acquire Date: 2/6/2019 11:31:57PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001517	ppm	0.001079	71.14
Al3961		128.3	ppm	0.1959	0.1527
As1890		0.01789	ppm	0.001388	7.761
Au2427		2.105	ppm	0.7764	36.88
B_2089		0.03871	ppm	0.0009260	2.392
Ba4934		0.9289	ppm	0.0005450	0.05868
Be3130		0.002368	ppm	0.0001790	7.577
Ca3179		84.96	ppm	0.6280	0.7391
Cd2144		0.002701	ppm	0.00008000	2.977
Co2286		0.1299	ppm	0.001622	1.248
Cr2677		0.2405	ppm	0.0007220	0.3001
Cu327.39		0.2783	ppm	0.0007130	0.2562
Fe2395		240.5	ppm	3.662	1.523
K7694		3.291	ppm	0.04780	1.452
Mg2790		94.26	ppm	0.4348	0.4612
Mn2576		5.471	ppm	0.01368	0.2500
Mo2020		-0.0008250	ppm	0.0002970	36.03
Na5895		0.8513	ppm	0.01760	2.067
Ni2316		0.1886	ppm	0.001406	0.7452
Pb2203		0.03708	ppm	0.002012	5.426
Sb2068		0.01952	ppm	0.002638	13.52
Se1960		0.01243	ppm	0.006059	48.74
Si2124		3.669	ppm	0.07473	2.037

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-17-b

Acquire Date: 2/6/2019 11:31:57PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.02565	ppm	0.0004320	1.685
Sr4077		0.1614	ppm	0.0007340	0.4548
Ti3361		11.44	ppm	0.002059	0.01799
Tl1908		0.2718	ppm	0.0002250	0.08262
V2924		0.6949	ppm	0.003858	0.5552
Zn2062		0.4155	ppm	0.003843	0.9250
Y371.030		8,644.4	Cts/S	10.731	0.12414
Y029A		142,440	Cts/S	33.322	0.023394
Y029R		525.39	Cts/S	5.6392	1.0733

720-90960-a-18-b

Acquire Date: 2/6/2019 11:36:48PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.002115	ppm	0.0008850	41.84
Al3961		65.90	ppm	0.2837	0.4305
As1890		0.01394	ppm	0.002379	17.07
Au2427		-1.945	ppm	0.006804	0.3499
B_2089		0.009594	ppm	0.0008230	8.581
Ba4934		0.4258	ppm	0.002205	0.5178
Be3130		0.001364	ppm	0.0005970	43.79
Ca3179		21.78	ppm	0.1861	0.8545
Cd2144		0.002631	ppm	0.00008000	3.043
Co2286		0.04087	ppm	0.0009370	2.293
Cr2677		0.5698	ppm	0.002270	0.3984
Cu327.39		0.08082	ppm	0.0005740	0.7104
Fe2395		126.3	ppm	0.7448	0.5895
K7694		2.057	ppm	0.6165	29.97
Mg2790		11.16	ppm	0.005521	0.04947
Mn2576		1.904	ppm	0.008111	0.4261
Mo2020		-0.0004130	ppm	0.0004270	103.4
Na5895		0.6304	ppm	0.009796	1.554
Ni2316		0.1996	ppm	0.002850	1.428
Pb2203		0.01678	ppm	0.002543	15.15
Sb2068		0.01682	ppm	0.0009100	5.410
Se1960		0.007245	ppm	0.004271	58.94
Si2124		10.31	ppm	0.002213	0.02145
Sn1899		0.01195	ppm	0.00006000	0.5002
Sr4077		0.06879	ppm	0.00006900	0.1000
Ti3361		4.240	ppm	0.03153	0.7435
Tl1908		0.1628	ppm	0.002439	1.498
V2924		0.4122	ppm	0.001817	0.4409
Zn2062		0.3252	ppm	0.009482	2.916
Y371.030		8,641.2	Cts/S	2.6600	0.030783

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-18-b

Acquire Date: 2/6/2019 11:36:48PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		142,650	Cts/S	557.12	0.39055
Y029R		500.48	Cts/S	6.5054	1.2998

ICV/CCV

Acquire Date: 2/6/2019 11:41:35PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2562	ppm	0.001323	0.5163	.2500	Rel(%)	Pass	
Al3961		14.79	ppm	0.1090	0.7368	15.00	Rel(%)	Pass	
As1890		0.4876	ppm	0.0007640	0.1566	.5000	Rel(%)	Pass	
Au2427		-75.15	ppm	0.5529	0.7358				
B_2089	**W**	**0.5400**	**ppm**	**0.0008740**	**0.1619**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ba4934		0.4836	ppm	0.005535	1.145	.5000	Rel(%)	Pass	
Be3130		0.4937	ppm	0.003534	0.7157	.5000	Rel(%)	Pass	
Ca3179		15.43	ppm	0.1152	0.7465	15.00	Rel(%)	Pass	
Cd2144		0.5237	ppm	0.001651	0.3152	.5000	Rel(%)	Pass	
Co2286	**W**	**0.5363**	**ppm**	**0.002315**	**0.4317**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677		0.5121	ppm	0.0006780	0.1324	.5000	Rel(%)	Pass	
Cu327.39		0.5081	ppm	0.002077	0.4089	.5000	Rel(%)	Pass	
Fe2395		15.18	ppm	0.1026	0.6757	15.00	Rel(%)	Pass	
K7694	**F**	**13.48**	**ppm**	**0.4612**	**3.421**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mg2790	**F**	**13.11**	**ppm**	**0.02296**	**0.1751**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mn2576	**W**	**0.4714**	**ppm**	**0.002752**	**0.5837**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Mo2020		0.4963	ppm	0.0003170	0.06395	.5000	Rel(%)	Pass	
Na5895		14.49	ppm	0.2825	1.950	15.00	Rel(%)	Pass	
Ni2316		0.4973	ppm	0.0006020	0.1211	.5000	Rel(%)	Pass	
Pb2203		0.5202	ppm	0.0001970	0.03794	.5000	Rel(%)	Pass	
Sb2068		0.5097	ppm	0.002706	0.5310	.5000	Rel(%)	Pass	
Se1960		0.4955	ppm	0.005211	1.052	.5000	Rel(%)	Pass	
Si2124		0.6348	ppm	0.005522	0.8699				
Sn1899		0.5096	ppm	0.001763	0.3459	.5000	Rel(%)	Pass	
Sr4077		0.4883	ppm	0.002178	0.4460	.5000	Rel(%)	Pass	
Ti3361		0.4766	ppm	0.006071	1.274	.5000	Rel(%)	Pass	
Tl1908		0.5109	ppm	0.006196	1.213	.5000	Rel(%)	Pass	
V2924		0.5158	ppm	0.001066	0.2066	.5000	Rel(%)	Pass	
Zn2062		0.5165	ppm	0.002362	0.4572	.5000	Rel(%)	Pass	
Y371.030		8,227.7	Cts/S	1.9019	0.023116				
Y029A		135,230	Cts/S	160.21	0.11848				
Y029R		477.61	Cts/S	2.0848	0.43651				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/6/2019 11:46:20PM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.0006160	ppm	0.001332	216.4	.0000	Abs	Pass	
Al3961		0.07794	ppm	0.02777	35.63	.0000	Abs	Pass	
As1890		0.002564	ppm	0.002315	90.31	.0000	Abs	Pass	
Au2427		0.1469	ppm	0.2848	193.9				
B_2089		0.001306	ppm	0.0002810	21.54	.0000	Abs	Pass	
Ba4934		0.0009900	ppm	0.001717	173.5	.0000	Abs	Pass	
Be3130		0.0002420	ppm	0.0001040	42.81	.0000	Abs	Pass	
Ca3179		0.07506	ppm	0.01218	16.22	.0000	Abs	Pass	
Cd2144		0.0004530	ppm	0.000009000	1.894	.0000	Abs	Pass	
Co2286		0.0006500	ppm	0.0002640	40.59	.0000	Abs	Pass	
Cr2677		0.0006850	ppm	0.0002510	36.70	.0000	Abs	Pass	
Cu327.39		0.002861	ppm	0.0003770	13.16	.0000	Abs	Pass	
Fe2395	**F**	**0.2590**	**ppm**	**0.08136**	**31.41**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		-0.6936	ppm	0.1728	24.91	.0000	Abs	Pass	
Mg2790		-0.04170	ppm	0.1668	399.9	.0000	Abs	Pass	
Mn2576		0.004502	ppm	0.0003720	8.267	.0000	Abs	Pass	
Mo2020		0.0005010	ppm	0.0001630	32.52	.0000	Abs	Pass	
Na5895		0.05386	ppm	0.08876	164.8	.0000	Abs	Pass	
Ni2316		0.0007530	ppm	0.0002700	35.89	.0000	Abs	Pass	
Pb2203		0.002341	ppm	0.001265	54.03	.0000	Abs	Pass	
Sb2068		0.001540	ppm	0.002429	157.7	.0000	Abs	Pass	
Se1960		-0.001134	ppm	0.0004210	37.15	.0000	Abs	Pass	
Si2124		0.01325	ppm	0.001347	10.17				
Sn1899		0.0006870	ppm	0.0003520	51.21	.0000	Abs	Pass	
Sr4077		0.001111	ppm	0.0001540	13.88	.0000	Abs	Pass	
Ti3361	**F**	**0.01265**	**ppm**	**0.001009**	**7.973**	**.0000**	**Abs**	**Fail High**	**.0100**
Tl1908		0.0005760	ppm	0.001346	233.6	.0000	Abs	Pass	
V2924		0.001234	ppm	0.0003930	31.82	.0000	Abs	Pass	
Zn2062		0.004640	ppm	0.0001190	2.559	.0000	Abs	Pass	
Y371.030		8,387.0	Cts/S	15.765	0.18796				
Y029A		139,430	Cts/S	701.17	0.50289				
Y029R		479.34	Cts/S	3.1289	0.65277				

720-90960-a-19-b

Acquire Date: 2/6/2019 11:51:15PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0005050	ppm	0.00007600	15.05
Al3961		122.4	ppm	0.5147	0.4205
As1890		0.006895	ppm	0.005446	78.98
Au2427		4.911	ppm	0.5714	11.64
B_2089		0.04130	ppm	0.0001790	0.4344
Ba4934		2.858	ppm	0.007874	0.2756
Be3130		0.003761	ppm	0.0006840	18.20
Ca3179		109.8	ppm	0.5185	0.4721
Cd2144		0.003367	ppm	0.00008700	2.579

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-19-b

Acquire Date: 2/6/2019 11:51:15PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		0.1254	ppm	0.002186	1.743
Cr2677		0.2846	ppm	0.001546	0.5433
Cu327.39		0.5849	ppm	0.002770	0.4736
Fe2395		277.5	ppm	1.816	0.6543
K7694		7.378	ppm	0.2702	3.662
Mg2790		113.9	ppm	0.3424	0.3005
Mn2576		7.584	ppm	0.01636	0.2157
Mo2020		0.0001050	ppm	0.000004000	3.810
Na5895		0.9358	ppm	0.00004000	0.004274
Ni2316		0.2424	ppm	0.001894	0.7816
Pb2203		0.04212	ppm	0.0003580	0.8490
Sb2068		0.01889	ppm	0.0003390	1.793
Se1960		0.01410	ppm	0.0002860	2.028
Si2124		3.337	ppm	0.04397	1.318
Sn1899		0.01789	ppm	0.0005880	3.288
Sr4077		0.3078	ppm	0.0009070	0.2947
Ti3361		8.160	ppm	0.01032	0.1265
Tl1908		0.2470	ppm	0.003611	1.462
V2924		0.6335	ppm	0.001503	0.2372
Zn2062		0.4454	ppm	0.006320	1.419
Y371.030		8,586.9	Cts/S	36.036	0.41967
Y029A		140,570	Cts/S	620.50	0.44141
Y029R		518.54	Cts/S	0.55972	0.10794

720-90960-a-20-b

Acquire Date: 2/6/2019 11:56:07PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0002840	ppm	0.0009090	320.8
Al3961		123.9	ppm	0.8239	0.6650
As1890		0.09033	ppm	0.001022	1.131
Au2427		-1.412	ppm	0.2709	19.19
B_2089		0.01064	ppm	0.0006100	5.728
Ba4934		0.5440	ppm	0.007225	1.328
Be3130		0.006107	ppm	0.0006060	9.922
Ca3179		17.22	ppm	0.01990	0.1155
Cd2144		0.004269	ppm	0.0001500	3.508
Co2286		0.1078	ppm	0.001709	1.585
Cr2677		0.2843	ppm	0.001932	0.6796
Cu327.39		0.2905	ppm	0.003483	1.199
Fe2395		207.6	ppm	0.6955	0.3350
K7694		4.988	ppm	0.1416	2.839
Mg2790		51.27	ppm	0.01012	0.01974
Mn2576		3.624	ppm	0.001757	0.04849

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-20-b

Acquire Date: 2/6/2019 11:56:07PM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.001563	ppm	0.0003140	20.07
Na5895		1.704	ppm	0.004130	0.2424
Ni2316		0.2789	ppm	0.003434	1.231
Pb2203		0.1471	ppm	0.003500	2.380
Sb2068		0.01845	ppm	0.004677	25.35
Se1960		0.01331	ppm	0.004290	32.24
Si2124		8.177	ppm	0.2078	2.541
Sn1899		0.007379	ppm	0.0004110	5.566
Sr4077		0.09983	ppm	0.0001560	0.1562
Ti3361		0.9217	ppm	0.02451	2.659
Tl1908		0.1375	ppm	0.002298	1.672
V2924		0.3492	ppm	0.002886	0.8262
Zn2062		1.073	ppm	0.01670	1.557
Y371.030		8,924.8	Cts/S	23.895	0.26774
Y029A		147,210	Cts/S	1,245.4	0.84601
Y029R		533.14	Cts/S	3.9775	0.74605

720-90960-a-21-b

Acquire Date: 2/7/2019 12:00:58AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001050	ppm	0.0008800	83.85
Al3961		114.5	ppm	0.7977	0.6967
As1890		0.05254	ppm	0.0004260	0.8102
Au2427		0.7469	ppm	0.2085	27.92
B_2089		0.01370	ppm	0.0003560	2.601
Ba4934		0.1495	ppm	0.003753	2.510
Be3130		0.005472	ppm	0.0001370	2.507
Ca3179		15.67	ppm	0.09415	0.6010
Cd2144		0.005452	ppm	0.00005100	0.9354
Co2286		0.1116	ppm	0.002201	1.971
Cr2677		0.2080	ppm	0.001628	0.7824
Cu327.39		0.3451	ppm	0.003763	1.090
Fe2395		181.3	ppm	2.218	1.224
K7694		6.098	ppm	0.01050	0.1721
Mg2790		50.46	ppm	0.005455	0.01081
Mn2576		4.010	ppm	0.02130	0.5311
Mo2020		-0.001445	ppm	0.0001070	7.436
Na5895		1.912	ppm	0.04997	2.613
Ni2316		0.2169	ppm	0.002341	1.079
Pb2203		1.352	ppm	0.01999	1.478
Sb2068		0.01400	ppm	0.001508	10.77
Se1960		0.01175	ppm	0.0001390	1.187
Si2124		8.057	ppm	0.1969	2.444
Sn1899		0.004264	ppm	0.0003380	7.920

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-21-b

Acquire Date: 2/7/2019 12:00:58AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sr4077		0.08090	ppm	0.0003870	0.4786
Ti3361		0.1301	ppm	0.006720	5.165
Tl1908		0.08212	ppm	0.004070	4.956
V2924		0.2117	ppm	0.002912	1.375
Zn2062		8.426	ppm	0.1487	1.765
Y371.030		8,479.6	Cts/S	2.2717	0.026790
Y029A		138,730	Cts/S	915.00	0.65954
Y029R		500.84	Cts/S	3.2704	0.65298

720-90960-a-22-b

Acquire Date: 2/7/2019 12:05:50AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.00006400	ppm	0.0003290	517.2
Al3961		96.25	ppm	0.1985	0.2062
As1890		0.05614	ppm	0.001558	2.776
Au2427		1.301	ppm	0.09131	7.020
B_2089		0.01703	ppm	0.0005140	3.018
Ba4934		1.082	ppm	0.001582	0.1462
Be3130		0.005125	ppm	0.0002640	5.143
Ca3179		32.80	ppm	0.5210	1.588
Cd2144		0.002877	ppm	0.0001230	4.292
Co2286		0.08820	ppm	0.0008750	0.9921
Cr2677		0.2420	ppm	0.00004000	0.01632
Cu327.39		0.2506	ppm	0.0003180	0.1268
Fe2395		188.9	ppm	2.134	1.130
K7694		3.976	ppm	0.1180	2.969
Mg2790		45.94	ppm	0.4439	0.9663
Mn2576		4.476	ppm	0.04971	1.111
Mo2020		0.001201	ppm	0.00002300	1.913
Na5895		0.6025	ppm	0.01106	1.836
Ni2316		0.2322	ppm	0.003104	1.336
Pb2203		0.4063	ppm	0.003817	0.9395
Sb2068		0.01168	ppm	0.001972	16.88
Se1960		0.01067	ppm	0.0004460	4.178
Si2124		7.317	ppm	0.1631	2.229
Sn1899		0.02139	ppm	0.0007580	3.545
Sr4077		0.1084	ppm	0.0001150	0.1064
Ti3361		3.463	ppm	0.02315	0.6686
Tl1908		0.1509	ppm	0.0001890	0.1251
V2924		0.3833	ppm	0.0008380	0.2187
Zn2062		0.4796	ppm	0.0003370	0.07033
Y371.030		8,682.1	Cts/S	5.9505	0.068538
Y029A		142,190	Cts/S	520.59	0.36613

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-22-b

Acquire Date: 2/7/2019 12:05:50AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029R		513.88	Cts/S	6.5761	1.2797

720-90960-a-23-b

Acquire Date: 2/7/2019 12:10:43AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.00002000	ppm	0.0001820	929.0
Al3961		84.90	ppm	0.1180	0.1390
As1890		0.05217	ppm	0.003254	6.238
Au2427		-1.369	ppm	0.2069	15.11
B_2089		0.01514	ppm	0.0008020	5.297
Ba4934		1.047	ppm	0.007558	0.7221
Be3130		0.003502	ppm	0.0006750	19.26
Ca3179		40.55	ppm	0.4403	1.086
Cd2144		0.002901	ppm	0.00008300	2.867
Co2286		0.07384	ppm	0.001688	2.287
Cr2677		0.2562	ppm	0.001513	0.5906
Cu327.39		0.4312	ppm	0.003133	0.7265
Fe2395		167.7	ppm	2.960	1.765
K7694		3.825	ppm	0.01373	0.3589
Mg2790		39.35	ppm	0.8486	2.156
Mn2576		2.831	ppm	0.004782	0.1689
Mo2020		0.0008360	ppm	0.0003500	41.90
Na5895		0.9049	ppm	0.07259	8.021
Ni2316		0.2364	ppm	0.003761	1.591
Pb2203		0.6211	ppm	0.005944	0.9571
Sb2068		0.01428	ppm	0.002936	20.56
Se1960		0.01289	ppm	0.003605	27.98
Si2124		7.095	ppm	0.2022	2.850
Sn1899		0.04330	ppm	0.0008880	2.051
Sr4077		0.1645	ppm	0.001574	0.9570
Ti3361		2.317	ppm	0.00002600	0.001101
Tl1908		0.1214	ppm	0.0008410	0.6930
V2924		0.3087	ppm	0.001259	0.4078
Zn2062		0.7313	ppm	0.009866	1.349
Y371.030		8,525.7	Cts/S	20.438	0.23973
Y029A		142,260	Cts/S	93.149	0.065477
Y029R		513.79	Cts/S	8.6797	1.6894

720-90960-a-24-b

Acquire Date: 2/7/2019 12:15:30AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001300	ppm	0.0002930	22.50
Al3961		165.6	ppm	0.5564	0.3360
As1890		0.05278	ppm	0.001180	2.236
Au2427		-4.686	ppm	0.1935	4.130
B_2089		0.01706	ppm	0.0006390	3.745
Ba4934		0.6337	ppm	0.002445	0.3858
Be3130		0.006010	ppm	0.0001180	1.956
Ca3179		31.07	ppm	0.2864	0.9217
Cd2144		0.001843	ppm	0.00002400	1.320
Co2286		0.06823	ppm	0.0003360	0.4926
Cr2677		0.3339	ppm	0.003507	1.050
Cu327.39		0.2351	ppm	0.0001850	0.07867
Fe2395		207.4	ppm	1.028	0.4956
K7694		5.975	ppm	0.2139	3.580
Mg2790		44.90	ppm	0.3584	0.7983
Mn2576		1.867	ppm	0.005776	0.3094
Mo2020		0.0008880	ppm	0.0003180	35.79
Na5895		2.107	ppm	0.06615	3.139
Ni2316		0.1941	ppm	0.001970	1.015
Pb2203		0.2892	ppm	0.002297	0.7942
Sb2068		0.01669	ppm	0.002795	16.75
Se1960		0.01268	ppm	0.0009070	7.152
Si2124		3.808	ppm	0.1002	2.630
Sn1899		0.009364	ppm	0.0004210	4.492
Sr4077		0.2661	ppm	0.002526	0.9495
Ti3361		0.5648	ppm	0.004530	0.8021
Tl1908		0.1790	ppm	0.001228	0.6859
V2924		0.4531	ppm	0.003079	0.6796
Zn2062		0.8576	ppm	0.008280	0.9654
Y371.030		9,391.7	Cts/S	70.204	0.74751
Y029A		153,940	Cts/S	174.95	0.11365
Y029R		564.40	Cts/S	5.3387	0.94590

720-90960-a-25-b

Acquire Date: 2/7/2019 12:20:17AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001484	ppm	0.0002820	19.02
Al3961		184.1	ppm	0.09178	0.04986
As1890		0.06342	ppm	0.0002180	0.3430
Au2427		5.890	ppm	0.1278	2.169
B_2089		0.01053	ppm	0.001191	11.31
Ba4934		0.4174	ppm	0.002587	0.6198
Be3130		0.007565	ppm	0.0002390	3.158
Ca3179		28.51	ppm	0.3668	1.286

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-25-b

Acquire Date: 2/7/2019 12:20:17AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Cd2144		0.002909	ppm	0.00003400	1.166
Co2286		0.1139	ppm	0.0005650	0.4964
Cr2677		0.3191	ppm	0.003181	0.9967
Cu327.39		0.3090	ppm	0.004007	1.297
Fe2395		305.5	ppm	1.833	0.6002
K7694		7.319	ppm	0.02770	0.3785
Mg2790		90.94	ppm	0.03269	0.03594
Mn2576		8.573	ppm	0.06994	0.8159
Mo2020		0.0007660	ppm	0.0003060	39.90
Na5895		0.4061	ppm	0.04132	10.17
Ni2316		0.2410	ppm	0.002755	1.143
Pb2203		0.03861	ppm	0.0003610	0.9343
Sb2068		0.01543	ppm	0.001134	7.350
Se1960		0.01651	ppm	0.001971	11.94
Si2124		2.750	ppm	0.05666	2.060
Sn1899		0.02719	ppm	0.0002550	0.9360
Sr4077		0.1091	ppm	0.0004510	0.4132
Ti3361		1.799	ppm	0.006916	0.3844
Tl1908		0.1783	ppm	0.001139	0.6384
V2924		0.4539	ppm	0.004021	0.8859
Zn2062		0.4528	ppm	0.005521	1.219
Y371.030		8,814.8	Cts/S	32.539	0.36914
Y029A		144,760	Cts/S	725.67	0.50130
Y029R		534.09	Cts/S	2.2690	0.42484

720-90960-a-26-b

Acquire Date: 2/7/2019 12:25:09AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0001150	ppm	0.001236	1,072
Al3961		135.8	ppm	0.4878	0.3593
As1890		0.1083	ppm	0.004169	3.848
Au2427		3.175	ppm	0.5774	18.19
B_2089		0.02718	ppm	0.0007980	2.937
Ba4934		0.6406	ppm	0.0005310	0.08297
Be3130		0.005555	ppm	0.0002370	4.268
Ca3179		100.6	ppm	0.8164	0.8114
Cd2144		0.005559	ppm	0.0001100	1.975
Co2286		0.09208	ppm	0.001806	1.961
Cr2677		1.146	ppm	0.01205	1.052
Cu327.39		0.6142	ppm	0.006545	1.066
Fe2395		263.2	ppm	1.648	0.6262
K7694		5.703	ppm	0.2351	4.123
Mg2790		75.38	ppm	0.5986	0.7941

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-26-b

Acquire Date: 2/7/2019 12:25:09AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mn2576		6.325	ppm	0.1006	1.590
Mo2020		0.002598	ppm	0.0004230	16.28
Na5895		2.150	ppm	0.04574	2.127
Ni2316		0.2174	ppm	0.003822	1.758
Pb2203		0.4913	ppm	0.007968	1.622
Sb2068		0.02685	ppm	0.0003200	1.193
Se1960		0.01553	ppm	0.001286	8.279
Si2124		2.173	ppm	0.05207	2.396
Sn1899		0.09845	ppm	0.002185	2.219
Sr4077		0.2695	ppm	0.001053	0.3906
Ti3361		2.469	ppm	0.03718	1.506
Tl1908		0.1601	ppm	0.001187	0.7413
V2924		0.4066	ppm	0.003595	0.8840
Zn2062		1.380	ppm	0.02737	1.983
Y371.030		8,477.7	Cts/S	14.946	0.17630
Y029A		139,050	Cts/S	1,097.5	0.78930
Y029R		503.81	Cts/S	2.2712	0.45082

720-90960-a-27-b

Acquire Date: 2/7/2019 12:30:00AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.0002490	ppm	0.00005700	22.84
Al3961		127.4	ppm	0.09440	0.07410
As1890		0.08018	ppm	0.00009500	0.1181
Au2427		-2.820	ppm	0.2213	7.846
B_2089		0.01098	ppm	0.0005480	4.993
Ba4934		1.050	ppm	0.001892	0.1802
Be3130		0.004051	ppm	0.0002470	6.100
Ca3179		103.4	ppm	1.368	1.323
Cd2144		0.004295	ppm	0.0001030	2.390
Co2286		0.1285	ppm	0.0006040	0.4701
Cr2677		0.4278	ppm	0.01158	2.708
Cu327.39		0.3663	ppm	0.01022	2.789
Fe2395		206.4	ppm	2.278	1.104
K7694		5.159	ppm	0.07707	1.494
Mg2790		31.30	ppm	0.06991	0.2233
Mn2576		2.858	ppm	0.07852	2.747
Mo2020		0.001278	ppm	0.0003940	30.83
Na5895		2.026	ppm	0.1670	8.243
Ni2316		0.2642	ppm	0.001689	0.6393
Pb2203		0.5371	ppm	0.006532	1.216
Sb2068		0.02686	ppm	0.002941	10.95
Se1960		0.01334	ppm	0.004359	32.69
Si2124		4.204	ppm	0.01841	0.4380

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-27-b

Acquire Date: 2/7/2019 12:30:00AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sn1899		0.02183	ppm	0.0002910	1.335
Sr4077		0.2712	ppm	0.001342	0.4947
Ti3361		2.027	ppm	0.2678	13.21
Tl1908		0.1723	ppm	0.006353	3.688
V2924		0.4330	ppm	0.01202	2.777
Zn2062		0.8951	ppm	0.005960	0.6659
Y371.030		8,545.7	Cts/S	19.205	0.22473
Y029A		138,270	Cts/S	17,281	12.498
Y029R		512.61	Cts/S	6.1342	1.1966

720-90960-a-28-b

Acquire Date: 2/7/2019 12:34:47AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.001359	ppm	0.001057	77.76
Al3961		159.7	ppm	0.1499	0.09386
As1890		0.05072	ppm	0.001160	2.286
Au2427		9.937	ppm	0.1157	1.164
B_2089		0.01331	ppm	0.001703	12.80
Ba4934		0.8666	ppm	0.004795	0.5533
Be3130		0.006951	ppm	0.0001880	2.705
Ca3179		23.33	ppm	0.03378	0.1448
Cd2144		0.002694	ppm	0.00001300	0.4656
Co2286		0.1173	ppm	0.002068	1.763
Cr2677		0.2892	ppm	0.001300	0.4495
Cu327.39		0.2520	ppm	0.001239	0.4918
Fe2395		268.8	ppm	1.260	0.4687
K7694		6.322	ppm	0.02908	0.4599
Mg2790		76.05	ppm	0.6670	0.8771
Mn2576		10.21	ppm	0.02868	0.2810
Mo2020		0.001535	ppm	0.0003370	21.96
Na5895		0.4210	ppm	0.03340	7.932
Ni2316		0.2734	ppm	0.003384	1.238
Pb2203		0.1437	ppm	0.001812	1.261
Sb2068		0.01676	ppm	0.0005350	3.192
Se1960		0.01714	ppm	0.0006660	3.887
Si2124		3.418	ppm	0.05384	1.575
Sn1899		0.02525	ppm	0.0001110	0.4390
Sr4077		0.1172	ppm	0.00002000	0.01729
Ti3361		1.867	ppm	0.007296	0.3909
Tl1908		0.1660	ppm	0.0001690	0.1018
V2924		0.4183	ppm	0.0002320	0.05557
Zn2062		0.4492	ppm	0.008005	1.782
Y371.030		8,660.1	Cts/S	19.780	0.22840

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-28-b

Acquire Date: 2/7/2019 12:34:47AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Y029A		143,630	Cts/S	1,180.9	0.82218
Y029R		528.03	Cts/S	0.88388	0.16739

ICV/CCV

Acquire Date: 2/7/2019 12:39:38AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2599	ppm	0.003415	1.314	.2500	Rel(%)	Pass	
Al3961		14.76	ppm	0.02866	0.1942	15.00	Rel(%)	Pass	
As1890		0.4875	ppm	0.002276	0.4669	.5000	Rel(%)	Pass	
Au2427		-76.10	ppm	0.2824	0.3711				
B_2089	**W**	**0.5389**	**ppm**	**0.002240**	**0.4157**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ba4934		0.4855	ppm	0.005681	1.170	.5000	Rel(%)	Pass	
Be3130		0.4879	ppm	0.001026	0.2103	.5000	Rel(%)	Pass	
Ca3179		15.35	ppm	0.2920	1.903	15.00	Rel(%)	Pass	
Cd2144		0.5233	ppm	0.001497	0.2861	.5000	Rel(%)	Pass	
Co2286	**W**	**0.5356**	**ppm**	**0.0009300**	**0.1735**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677		0.5160	ppm	0.004227	0.8193	.5000	Rel(%)	Pass	
Cu327.39		0.5125	ppm	0.003121	0.6090	.5000	Rel(%)	Pass	
Fe2395		15.12	ppm	0.03804	0.2515	15.00	Rel(%)	Pass	
K7694	**F**	**13.27**	**ppm**	**0.4556**	**3.434**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mg2790	**F**	**13.15**	**ppm**	**0.4641**	**3.530**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mn2576		0.4794	ppm	0.004259	0.8883	.5000	Rel(%)	Pass	
Mo2020		0.4982	ppm	0.002164	0.4345	.5000	Rel(%)	Pass	
Na5895		14.56	ppm	0.06176	0.4241	15.00	Rel(%)	Pass	
Ni2316		0.4992	ppm	0.001049	0.2101	.5000	Rel(%)	Pass	
Pb2203		0.5195	ppm	0.001932	0.3719	.5000	Rel(%)	Pass	
Sb2068		0.5092	ppm	0.001578	0.3098	.5000	Rel(%)	Pass	
Se1960		0.4963	ppm	0.001157	0.2331	.5000	Rel(%)	Pass	
Si2124		0.6337	ppm	0.009041	1.427				
Sn1899		0.5091	ppm	0.0005030	0.09875	.5000	Rel(%)	Pass	
Sr4077		0.4860	ppm	0.001057	0.2175	.5000	Rel(%)	Pass	
Ti3361	**W**	**0.4598**	**ppm**	**0.007280**	**1.583**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Tl1908		0.5140	ppm	0.001599	0.3111	.5000	Rel(%)	Pass	
V2924		0.5206	ppm	0.003887	0.7467	.5000	Rel(%)	Pass	
Zn2062		0.5136	ppm	0.0003200	0.06224	.5000	Rel(%)	Pass	
Y371.030		8,206.9	Cts/S	9.4838	0.11556				
Y029A		136,420	Cts/S	552.41	0.40494				
Y029R		474.01	Cts/S	5.3218	1.1227				

ICB/CCB

Acquire Date: 2/7/2019 12:44:22AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.0006140	ppm	0.0006120	99.57	.0000	Abs	Pass	
Al3961	**F**	**0.2297**	**ppm**	**0.08751**	**38.10**	**.0000**	**Abs**	**Fail High**	**.2000**
As1890		0.001170	ppm	0.003069	262.2	.0000	Abs	Pass	
Au2427		0.07392	ppm	0.09565	129.4				
B_2089		0.0002640	ppm	0.0001440	54.64	.0000	Abs	Pass	
Ba4934		-0.001233	ppm	0.001875	152.0	.0000	Abs	Pass	
Be3130		0.0007160	ppm	0.0004390	61.39	.0000	Abs	Pass	
Ca3179		0.07855	ppm	0.05782	73.62	.0000	Abs	Pass	
Cd2144		0.0006120	ppm	0.0001480	24.21	.0000	Abs	Pass	
Co2286		0.0009390	ppm	0.0001820	19.42	.0000	Abs	Pass	
Cr2677		0.0008880	ppm	0.001043	117.5	.0000	Abs	Pass	
Cu327.39		0.001766	ppm	0.0003950	22.36	.0000	Abs	Pass	
Fe2395	**F**	**0.4406**	**ppm**	**0.2144**	**48.66**	**.0000**	**Abs**	**Fail High**	**.2000**
K7694		-0.9828	ppm	0.2800	28.49	.0000	Abs	Pass	
Mg2790		-0.03326	ppm	0.3575	1,075	.0000	Abs	Pass	
Mn2576		0.01163	ppm	0.006176	53.10	.0000	Abs	Pass	
Mo2020		0.0006780	ppm	0.0003060	45.14	.0000	Abs	Pass	
Na5895		0.03636	ppm	0.01091	30.01	.0000	Abs	Pass	
Ni2316		0.001047	ppm	0.0002900	27.72	.0000	Abs	Pass	
Pb2203		0.003452	ppm	0.0005940	17.20	.0000	Abs	Pass	
Sb2068		0.001307	ppm	0.002191	167.7	.0000	Abs	Pass	
Se1960		0.001035	ppm	0.001795	173.4	.0000	Abs	Pass	
Si2124		0.01191	ppm	0.00005200	0.4349				
Sn1899		0.0004180	ppm	0.00006300	15.09	.0000	Abs	Pass	
Sr4077		0.001398	ppm	0.0004290	30.66	.0000	Abs	Pass	
Ti3361		-0.005829	ppm	0.002731	46.85	.0000	Abs	Pass	
Tl1908		0.0002080	ppm	0.0006940	334.1	.0000	Abs	Pass	
V2924		0.001630	ppm	0.0006540	40.12	.0000	Abs	Pass	
Zn2062		0.001523	ppm	0.0002600	17.06	.0000	Abs	Pass	
Y371.030		8,549.0	Cts/S	5.8292	0.068186				
Y029A		143,490	Cts/S	259.72	0.18100				
Y029R		476.74	Cts/S	0.47730	0.10012				

720-90960-a-29-b

Acquire Date: 2/7/2019 12:49:15AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.00008100	ppm	0.0002960	364.2
Al3961		58.53	ppm	0.3405	0.5817
As1890		0.04553	ppm	0.0001990	0.4367
Au2427		0.04592	ppm	0.02017	43.92
B_2089		0.009926	ppm	0.0005980	6.021
Ba4934		0.3890	ppm	0.001355	0.3484
Be3130		0.001482	ppm	0.00003000	2.013
Ca3179		21.78	ppm	1.196	5.490
Cd2144		0.001514	ppm	0.0001220	8.068

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90960-a-29-b

Acquire Date: 2/7/2019 12:49:15AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Co2286		0.05675	ppm	0.00002500	0.04484
Cr2677		0.2632	ppm	0.002127	0.8079
Cu327.39		0.1086	ppm	0.0006000	0.5521
Fe2395		114.4	ppm	7.694	6.728
K7694		2.443	ppm	0.1709	6.996
Mg2790		20.30	ppm	0.1712	0.8433
Mn2576		2.005	ppm	0.009528	0.4752
Mo2020		0.0005710	ppm	0.0002900	50.75
Na5895		0.9968	ppm	0.2112	21.18
Ni2316		0.2200	ppm	0.002162	0.9828
Pb2203		0.1371	ppm	0.0001190	0.08694
Sb2068		0.007619	ppm	0.002485	32.61
Se1960		0.005676	ppm	0.002245	39.55
Si2124		8.993	ppm	0.6397	7.113
Sn1899		0.02147	ppm	0.0001320	0.6150
Sr4077		0.08613	ppm	0.0006860	0.7968
Ti3361		3.053	ppm	0.03607	1.181
Tl1908		0.09441	ppm	0.0003270	0.3467
V2924		0.2401	ppm	0.0007950	0.3312
Zn2062		0.2309	ppm	0.001882	0.8154
Y371.030		8,574.3	Cts/S	52.589	0.61333
Y029A		143,630	Cts/S	292.40	0.20358
Y029R		464.04	Cts/S	25.297	5.4514

720-90961-e-1-b

Acquire Date: 2/7/2019 12:54:03AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		-0.001642	ppm	0.0001020	6.212
Al3961		209.2	ppm	1.493	0.7139
As1890		0.002150	ppm	0.001155	53.71
Au2427		-1.957	ppm	0.1890	9.658
B_2089		0.02289	ppm	0.0003590	1.569
Ba4934		0.1318	ppm	0.0003980	0.3024
Be3130		0.001127	ppm	0.0006070	53.82
Ca3179		129.5	ppm	1.920	1.482
Cd2144		0.001449	ppm	0.00007100	4.928
Co2286		0.1015	ppm	0.001555	1.531
Cr2677		0.7092	ppm	0.006718	0.9474
Cu327.39		0.5933	ppm	0.003763	0.6343
Fe2395		214.5	ppm	2.065	0.9630
K7694		9.270	ppm	0.4308	4.648
Mg2790		72.92	ppm	0.1992	0.2731
Mn2576		3.139	ppm	0.02699	0.8597

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90961-e-1-b

Acquire Date: 2/7/2019 12:54:03AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Mo2020		0.001287	ppm	0.0003230	25.12
Na5895		17.48	ppm	0.1384	0.7914
Ni2316		0.06092	ppm	0.0005670	0.9304
Pb2203		0.01440	ppm	0.0007760	5.389
Sb2068		0.01393	ppm	0.001351	9.699
Se1960		0.003352	ppm	0.002269	67.68
Si2124		3.023	ppm	0.06739	2.229
Sn1899		0.01692	ppm	0.0003720	2.200
Sr4077		0.2617	ppm	0.004609	1.761
Ti3361		3.740	ppm	0.003424	0.09155
Tl1908		0.2911	ppm	0.0005200	0.1788
V2924		0.7308	ppm	0.004937	0.6755
Zn2062		0.3971	ppm	0.005528	1.392
Y371.030		7,958.2	Cts/S	1.8960	0.023825
Y029A		130,260	Cts/S	907.67	0.69683
Y029R		468.97	Cts/S	4.6514	0.99184

720-90961-e-2-b

Acquire Date: 2/7/2019 12:58:49AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Ag3280		0.004338	ppm	0.002370	54.63
Al3961		26.50	ppm	0.01763	0.06650
As1890		0.07563	ppm	0.003357	4.439
Au2427		-3.603	ppm	0.2015	5.593
B_2089		0.06488	ppm	0.0006700	1.033
Ba4934		1.428	ppm	0.01451	1.017
Be3130		0.0004300	ppm	0.0008290	192.7
Ca3179		41.15	ppm	0.2699	0.6558
Cd2144		0.02027	ppm	0.0004230	2.086
Co2286		0.02724	ppm	0.0002300	0.8426
Cr2677		0.1341	ppm	0.0003830	0.2855
Cu327.39		1.592	ppm	0.009669	0.6075
Fe2395		174.3	ppm	1.031	0.5917
K7694		2.296	ppm	0.1537	6.692
Mg2790		9.209	ppm	0.06625	0.7194
Mn2576		1.587	ppm	0.01005	0.6331
Mo2020		0.002495	ppm	0.00009700	3.879
Na5895		2.081	ppm	0.05470	2.629
Ni2316		0.1344	ppm	0.002768	2.060
Pb2203		4.853	ppm	0.1072	2.209
Sb2068		0.03539	ppm	0.004850	13.71
Se1960		0.01079	ppm	0.00009000	0.8331
Si2124		1.724	ppm	0.03299	1.914
Sn1899		0.6274	ppm	0.01357	2.163

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

720-90961-e-2-b

Acquire Date: 2/7/2019 12:58:49AM Sample Type: Unknown

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD
Sr4077		0.2386	ppm	0.002433	1.020
Ti3361		0.9662	ppm	0.02733	2.828
Tl1908		0.05087	ppm	0.0005520	1.084
V2924		0.1303	ppm	0.001994	1.530
Zn2062		3.549	ppm	0.07955	2.242
Y371.030		8,341.6	Cts/S	12.366	0.14825
Y029A		139,210	Cts/S	1,804.4	1.2962
Y029R		493.64	Cts/S	0.58336	0.11818

ICV/CCV

Acquire Date: 2/7/2019 1:03:33AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		0.2593	ppm	0.001353	0.5217	.2500	Rel(%)	Pass	
Al3961		14.59	ppm	0.08075	0.5534	15.00	Rel(%)	Pass	
As1890		0.4905	ppm	0.0003020	0.06158	.5000	Rel(%)	Pass	
Au2427		-75.47	ppm	0.2471	0.3274				
B_2089	**W**	**0.5310**	**ppm**	**0.002206**	**0.4154**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Ba4934	**W**	**0.4720**	**ppm**	**0.004861**	**1.030**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Be3130		0.4832	ppm	0.003356	0.6946	.5000	Rel(%)	Pass	
Ca3179		15.17	ppm	0.02050	0.1351	15.00	Rel(%)	Pass	
Cd2144		0.5152	ppm	0.0009240	0.1794	.5000	Rel(%)	Pass	
Co2286	**W**	**0.5272**	**ppm**	**0.0004130**	**0.07843**	**.5000**	**Rel(%)**	**Warn High**	**5.000**
Cr2677		0.5114	ppm	0.002769	0.5415	.5000	Rel(%)	Pass	
Cu327.39		0.5094	ppm	0.004112	0.8072	.5000	Rel(%)	Pass	
Fe2395		14.98	ppm	0.2205	1.472	15.00	Rel(%)	Pass	
K7694	**F**	**12.71**	**ppm**	**0.2129**	**1.675**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mg2790	**F**	**13.25**	**ppm**	**0.3284**	**2.477**	**15.00**	**Rel(%)**	**Fail Low**	**-10.00**
Mn2576	**W**	**0.4662**	**ppm**	**0.003309**	**0.7098**	**.5000**	**Rel(%)**	**Warn Low**	**-5.000**
Mo2020		0.4981	ppm	0.0006290	0.1262	.5000	Rel(%)	Pass	
Na5895	**W**	**14.23**	**ppm**	**0.07821**	**0.5495**	**15.00**	**Rel(%)**	**Warn Low**	**-5.000**
Ni2316		0.4909	ppm	0.0002630	0.05347	.5000	Rel(%)	Pass	
Pb2203		0.5134	ppm	0.001255	0.2444	.5000	Rel(%)	Pass	
Sb2068		0.5080	ppm	0.002490	0.4901	.5000	Rel(%)	Pass	
Se1960		0.4847	ppm	0.0003830	0.07905	.5000	Rel(%)	Pass	
Si2124		0.6257	ppm	0.0007100	0.1135				
Sn1899		0.5012	ppm	0.0007540	0.1504	.5000	Rel(%)	Pass	
Sr4077		0.4780	ppm	0.001833	0.3834	.5000	Rel(%)	Pass	
Ti3361	**F**	**0.4480**	**ppm**	**0.006450**	**1.440**	**.5000**	**Rel(%)**	**Fail Low**	**-10.00**
Tl1908		0.5114	ppm	0.001578	0.3085	.5000	Rel(%)	Pass	
V2924		0.5158	ppm	0.003755	0.7279	.5000	Rel(%)	Pass	
Zn2062		0.5069	ppm	0.0003770	0.07432	.5000	Rel(%)	Pass	
Y371.030		8,336.4	Cts/S	7.6436	0.091690				
Y029A		137,230	Cts/S	943.32	0.68739				
Y029R		477.24	Cts/S	0.064169	0.013446				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

ICB/CCB

Acquire Date: 2/7/2019 1:08:17AM Sample Type: QC

Correction Factor: 1.0000 SW: 1.0000 NW: 1.0000 IV: 1.0000 FV: 1.0000 AF: 1.0000

Analyst Name: admin

Method Name: EPA6010&200.7start.01.11.16 Method Revision: 508

Elem	Flags	Avg	Units	Stddev	%RSD	Check Value	Units	Outcome	Flag Value
Ag3280		-0.00007300	ppm	0.000002000	2.639	.0000	Abs	Pass	
Al3961		0.07081	ppm	0.06649	93.90	.0000	Abs	Pass	
As1890		0.0008550	ppm	0.002119	247.7	.0000	Abs	Pass	
Au2427		0.5409	ppm	0.1374	25.39				
B_2089		0.0005420	ppm	0.00005000	9.206	.0000	Abs	Pass	
Ba4934		-0.001392	ppm	0.001519	109.1	.0000	Abs	Pass	
Be3130		0.001193	ppm	0.0003410	28.58	.0000	Abs	Pass	
Ca3179		0.04032	ppm	0.01722	42.70	.0000	Abs	Pass	
Cd2144		0.0003650	ppm	0.00003800	10.49	.0000	Abs	Pass	
Co2286		0.0004410	ppm	0.0003630	82.31	.0000	Abs	Pass	
Cr2677		0.0003080	ppm	0.0004030	130.8	.0000	Abs	Pass	
Cu327.39		0.001899	ppm	0.002413	127.1	.0000	Abs	Pass	
Fe2395		0.1354	ppm	0.03661	27.04	.0000	Abs	Pass	
K7694		-0.8799	ppm	0.2228	25.32	.0000	Abs	Pass	
Mg2790		-0.04040	ppm	0.1833	453.9	.0000	Abs	Pass	
Mn2576		0.001584	ppm	0.0009370	59.19	.0000	Abs	Pass	
Mo2020		0.0005470	ppm	0.0001180	21.56	.0000	Abs	Pass	
Na5895		-0.03329	ppm	0.06021	180.9	.0000	Abs	Pass	
Ni2316		0.0007320	ppm	0.00001200	1.658	.0000	Abs	Pass	
Pb2203		0.001056	ppm	0.001870	177.1	.0000	Abs	Pass	
Sb2068		-0.0006060	ppm	0.001384	228.3	.0000	Abs	Pass	
Se1960		0.002882	ppm	0.001799	62.44	.0000	Abs	Pass	
Si2124		0.003958	ppm	0.001700	42.94				
Sn1899		0.0002190	ppm	0.0002580	118.0	.0000	Abs	Pass	
Sr4077		0.001166	ppm	0.0006400	54.87	.0000	Abs	Pass	
Ti3361		0.002658	ppm	0.0009750	36.69	.0000	Abs	Pass	
Tl1908		0.001435	ppm	0.0008840	61.57	.0000	Abs	Pass	
V2924		0.001007	ppm	0.0005000	49.67	.0000	Abs	Pass	
Zn2062		0.001103	ppm	0.0001340	12.16	.0000	Abs	Pass	
Y371.030		8,508.2	Cts/S	2.6417	0.031049				
Y029A		142,150	Cts/S	584.72	0.41135				
Y029R		464.93	Cts/S	27.047	5.8175				

Color Legend Pass/Unchecked Internal Standard Check Fail Check Warn

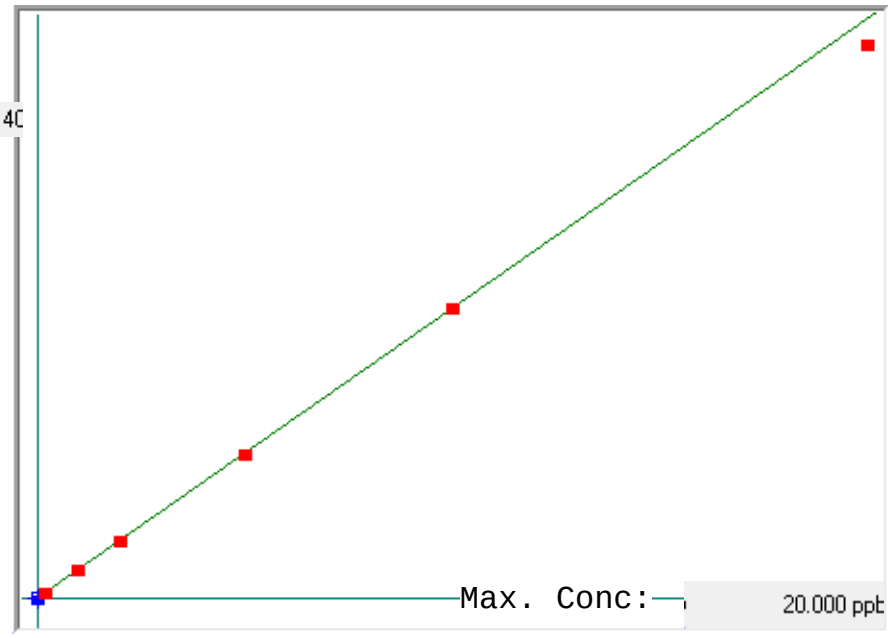
S013019Bs

Method: Soil 7471 Operator: Admin Date of Analysis: 30 Jan 2019 11:26:56

Sample ID	Type	Extended ID	Wt	Vol	Type	Integration Time	Seq ID	A	B	C	Rho	Stnd Conc	Curve Type	Chapter	Method	Units	UI	US	DI	Blank Sub	Date	µ Abs	Conc.
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30490						Wt Linear	S013019A	Soil 7471	ppb	0.0000	1.0000	-	9.5349	30 Jan 2019 12:42:11	81540	95.3% 9.5349
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30491						Wt Linear	S013019A	Soil 7471	ppb	0.0000	1.0000	-	-0.0525	30 Jan 2019 12:44:29	-455	-0.0525
mb 720-259152/1-a - 1	U		1.0000	1.0000	SMPL	80.0000	30492	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.0007	30 Jan 2019 13:58:29	0	0.0007
lcs 720-259152/2-a - 1	U		1.0000	1.0000	SMPL	80.0000	30494	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	8.9114	30 Jan 2019 14:00:44	76208	8.9114
720-90956-a-9-c ms - 1	X		1.0000	1.0000		80.0000	30495						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	91.8200	30 Jan 2019 14:02:59	785273	HIGH
720-90956-a-9-d msd - 1	U		1.0000	1.0000	SMPL	80.0000	30496	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	32.6295	30 Jan 2019 14:05:03	279054	32.6295
720-90956-a-9-e - 1	X		1.0000	1.0000		80.0000	30497						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	33.9068	30 Jan 2019 14:08:07	289978	HIGH
720-90956-a-8-g - 1	U		1.0000	1.0000	SMPL	80.0000	30498	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.7646	30 Jan 2019 14:10:39	6533	0.7646
720-90956-a-10-a - 1	U		1.0000	1.0000	SMPL	80.0000	30499	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	9.6310	30 Jan 2019 14:13:10	82362	9.6310
720-90956-a-11-a - 1	X		1.0000	1.0000		80.0000	30500						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	70.2838	30 Jan 2019 14:15:28	601088	HIGH
720-90956-a-12-a - 1	U		1.0000	1.0000	SMPL	80.0000	30501	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	12.1282	30 Jan 2019 14:17:35	103716	12.1282
720-90956-a-13-a - 1	X		1.0000	1.0000		80.0000	30502						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	32.2412	30 Jan 2019 14:20:25	275715	HIGH
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30503						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	9.3344	30 Jan 2019 14:22:36	79825	93.3% 9.3344
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30504						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	-0.0798	30 Jan 2019 14:25:07	-688	-0.0798
720-90956-a-14-a - 1	U		1.0000	1.0000	SMPL	80.0000	30505	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	8.2672	30 Jan 2019 14:27:34	70696	8.2672
720-90956-a-15-a - 1	U		1.0000	1.0000	SMPL	80.0000	30506	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.8316	30 Jan 2019 14:29:50	7106	0.8316
720-90956-a-16-a - 1	U		1.0000	1.0000	SMPL	80.0000	30507	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	6.6231	30 Jan 2019 14:32:15	56637	6.6231
720-90960-a-1-a - 1	U		1.0000	1.0000	SMPL	80.0000	30508	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	7.3229	30 Jan 2019 14:34:32	62622	7.3229
720-90960-a-2-a - 1	U		1.0000	1.0000	SMPL	80.0000	30509	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	1.0521	30 Jan 2019 14:36:56	8992	1.0521
720-90960-a-3-a - 1	U		1.0000	1.0000	SMPL	80.0000	30510	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.4754	30 Jan 2019 14:39:19	4066	0.4754
720-90960-a-4-a - 1	U		1.0000	1.0000	SMPL	80.0000	30511	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.8520	30 Jan 2019 14:41:36	7281	0.8520
720-90960-a-5-a - 1	U		1.0000	1.0000	SMPL	80.0000	30512	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	1.2798	30 Jan 2019 14:43:52	10936	1.2798
720-90960-a-6-a - 1	U		1.0000	1.0000	SMPL	80.0000	30513	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.2676	30 Jan 2019 14:46:08	2283	0.2676
720-90960-a-7-a - 1	U		1.0000	1.0000	SMPL	80.0000	30514	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.4177	30 Jan 2019 14:48:26	3566	0.4177
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30515						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	9.3943	30 Jan 2019 14:50:41	80338	93.9% 9.3943
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30516						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	-0.0545	30 Jan 2019 14:52:58	-472	-0.0545
720-90960-a-8-a - 1	U		1.0000	1.0000	SMPL	80.0000	30517	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	1.5416	30 Jan 2019 14:55:23	13178	1.5416
720-90960-a-9-a - 1	U		1.0000	1.0000	SMPL	80.0000	30518	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	3.5953	30 Jan 2019 14:57:39	30742	3.5953
720-90960-a-10-a - 1	U		1.0000	1.0000	SMPL	80.0000	30519	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.6584	30 Jan 2019 14:59:57	5625	0.6584
720-90960-a-11-a - 1	U		1.0000	1.0000	SMPL	80.0000	30520	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	2.4392	30 Jan 2019 15:02:13	20855	2.4392
720-90956-a-9-c ms @ 10 - 1	U		1.0000	1.0000	SMPL	80.0000	30521	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	21.4609	30 Jan 2019 15:04:35	183536	21.4609
720-90956-a-9-d msd @ 10 - 1	U		1.0000	1.0000	SMPL	80.0000	30522	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	3.3791	30 Jan 2019 15:06:53	28893	3.3791
720-90956-a-9-e @ 10 - 1	U		1.0000	1.0000	SMPL	80.0000	30523	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	4.6676	30 Jan 2019 15:09:34	39913	4.6676
720-90956-a-8-g - 1	U		1.0000	1.0000	SMPL	80.0000	30524	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.8201	30 Jan 2019 15:11:52	7008	0.8201
720-90956-a-11-a @ 10 - 1	U		1.0000	1.0000	SMPL	80.0000	30525	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	13.3031	30 Jan 2019 15:14:14	113767	13.3031
720-90956-a-12-a - 1	U		1.0000	1.0000	SMPL	80.0000	30526	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	12.1666	30 Jan 2019 15:16:30	104047	12.1666
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30527						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	9.4083	30 Jan 2019 15:19:02	80457	94.1% 9.4083
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30528						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	-0.0615	30 Jan 2019 15:21:34	-532	-0.0615
720-90956-a-13-a @ 10 - 1	U		1.0000	1.0000	SMPL	80.0000	30529	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	4.3546	30 Jan 2019 15:24:02	37236	4.3546
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30539						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	9.3444	30 Jan 2019 15:47:37	79912	93.4% 9.3444
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30540						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	-0.0574	30 Jan 2019 15:49:53	-497	-0.0574

Soil 7471

Wt. Linear



A= 0.0000e+000

B= 1.1693e-004

C= 6.9403e-004

Rho= 0.9996504

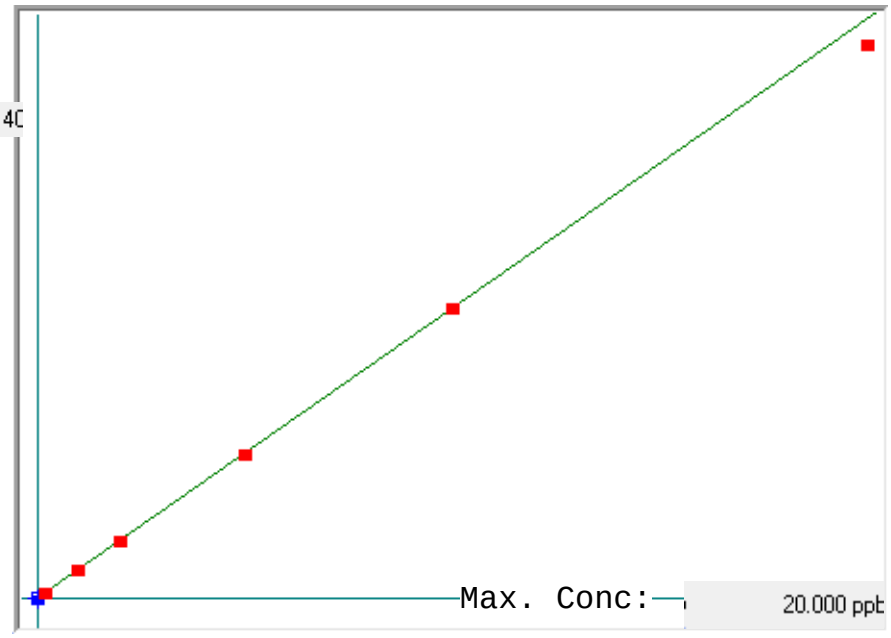
Accept= Accepted

Accepted Date=

01/30/19 11:15

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Standard 1	0.000	-0.000	-0.000	-6	1.000	-5	-7			
Standard 2	0.200	0.204	0.004	1737	1.5 %	1711	1764			
Standard 3	1.000	1.029	0.029	8793	1.6 %	8649	8937			
Standard 4	2.000	2.043	0.043	17468	1.3 %	17239	17698			
Standard 5	5.000	5.017	0.017	42905	1.6 %	42210	43601			
Standard 6	10.000	10.049	0.049	85935	1.5 %	84645	87225			
Standard 7	20.000	19.193	-0.807	164139	1.1 %	162267	166012			

Soil 7471



A= 0.0000e+000

B= 1.1693e-004

C= 6.9403e-004

Rho= 0.9996504

Accept= Accepted

Accepted Date=

01/30/19 11:15

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Standard 1	0.000	-0.000	-0.000	-6	1.000	-5	-7			
Standard 2	0.200	0.204	0.004	1737	1.5 %	1711	1764			
Standard 3	1.000	1.029	0.029	8793	1.6 %	8649	8937			
Standard 4	2.000	2.043	0.043	17468	1.3 %	17239	17698			
Standard 5	5.000	5.017	0.017	42905	1.6 %	42210	43601			
Standard 6	10.000	10.049	0.049	85935	1.5 %	84645	87225			
Standard 7	20.000	19.193	-0.807	164139	1.1 %	162267	166012			

S013019Cs

Method: Soil 7471 Operator: Admin Date of Analysis: 30 Jan 2019 13:57:23

Sample ID	Type	Extended ID	Wt	Vol	Type	Integration Time	Seq ID	A	B	C	Rho	Stnd Conc	Curve Type	Chapter	Method	Units	UI	US	DL	Blank Sub	Date	µ Abs	Conc.
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30527						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	9.4083	30 Jan 2019 15:19:02	80457	94.1% 9.4083
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30528						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	-0.0615	30 Jan 2019 15:21:34	-532	-0.0615
mb 720-259166/1-a - 1	U		1.0000	1.0000	SMPL	80.0000	30530	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.1470	30 Jan 2019 15:26:17	1253	0.1470
lcs 720-259166/2-a - 1	U		1.0000	1.0000	SMPL	80.0000	30531	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	9.1470	30 Jan 2019 15:28:38	78223	9.1470
720-90960-a-12-a ms - 1	U		1.0000	1.0000	SMPL	80.0000	30532	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	10.5044	30 Jan 2019 15:30:51	89832	10.5044
720-90960-a-12-b msd - 1	U		1.0000	1.0000	SMPL	80.0000	30533	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	10.5186	30 Jan 2019 15:33:23	89953	10.5186
720-90960-a-12-c - 1	U		1.0000	1.0000	SMPL	80.0000	30534	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	2.3248	30 Jan 2019 15:35:54	19877	2.3248
720-90960-a-13-a - 1	U		1.0000	1.0000	SMPL	80.0000	30535	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	1.7019	30 Jan 2019 15:38:25	14548	1.7019
720-90960-a-14-a - 1	U		1.0000	1.0000	SMPL	80.0000	30536	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	4.0432	30 Jan 2019 15:40:42	34573	4.0432
720-90960-a-15-a - 1	U		1.0000	1.0000	SMPL	80.0000	30537	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.7389	30 Jan 2019 15:43:00	6313	0.7389
720-90960-a-16-a - 1	U		1.0000	1.0000	SMPL	80.0000	30538	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.1760	30 Jan 2019 15:45:19	1499	0.1760
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30539						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	9.3444	30 Jan 2019 15:47:37	79910	93.4% 9.3444
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30540						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	-0.0574	30 Jan 2019 15:49:53	-497	-0.0574
720-90960-a-17-a - 1	U		1.0000	1.0000	SMPL	80.0000	30541	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.8013	30 Jan 2019 15:52:17	6847	0.8013
720-90960-a-18-a - 1	U		1.0000	1.0000	SMPL	80.0000	30542	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.9663	30 Jan 2019 15:54:33	8258	0.9663
720-90960-a-19-a - 1	U		1.0000	1.0000	SMPL	80.0000	30543	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	2.2001	30 Jan 2019 15:56:51	18810	2.2001
720-90960-a-20-a - 1	U		1.0000	1.0000	SMPL	80.0000	30544	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.4091	30 Jan 2019 15:59:10	3493	0.4091
720-90960-a-21-a - 1	U		1.0000	1.0000	SMPL	80.0000	30545	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	2.5925	30 Jan 2019 16:01:25	22166	2.5925
720-90960-a-22-a - 1	U		1.0000	1.0000	SMPL	80.0000	30546	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	3.5222	30 Jan 2019 16:03:45	30117	3.5222
720-90960-a-23-a - 1	U		1.0000	1.0000	SMPL	80.0000	30547	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	2.5322	30 Jan 2019 16:06:04	21650	2.5322
720-90960-a-24-a - 1	U		1.0000	1.0000	SMPL	80.0000	30548	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	1.0033	30 Jan 2019 16:08:22	8575	1.0033
720-90960-a-25-a - 1	U		1.0000	1.0000	SMPL	80.0000	30549	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.3309	30 Jan 2019 16:10:41	2824	0.3309
720-90960-a-26-a - 1	U		1.0000	1.0000	SMPL	80.0000	30550	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	5.7536	30 Jan 2019 16:12:58	49203	5.7536
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30551						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	9.2697	30 Jan 2019 16:15:15	79272	92.7% 9.2697
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30552						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	-0.0552	30 Jan 2019 16:17:37	478	-0.0552
720-90960-a-27-a - 1	U		1.0000	1.0000	SMPL	80.0000	30553	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	2.3673	30 Jan 2019 16:20:05	20240	2.3673
720-90960-a-28-a - 1	U		1.0000	1.0000	SMPL	80.0000	30554	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.8013	30 Jan 2019 16:22:21	6847	0.8013
720-90960-a-29-a - 1	U		1.0000	1.0000	SMPL	80.0000	30555	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	2.5394	30 Jan 2019 16:24:40	21712	2.5394
720-90961-e-1-a - 1	U		1.0000	1.0000	SMPL	80.0000	30556	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	0.6307	30 Jan 2019 16:26:57	5388	0.6307
720-90961-e-2-a - 1	U		1.0000	1.0000	SMPL	80.0000	30557	0.00000e+000	1.16927e-004	6.94025e-004	9.99650e-001		Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	0.0000	3.5327	30 Jan 2019 16:29:16	30207	3.5327
ICV - 1	C		1.0000	1.0000	CK STND	80.0000	30558						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	9.2965	30 Jan 2019 16:31:34	79501	93.0% 9.2965
ICB - 1	C		1.0000	1.0000	CK STND	80.0000	30559						Wt Linear	S013019B	Soil 7471	ppb	0.0000	1.0000	-	-0.0545	30 Jan 2019 16:33:53	-472	-0.0545

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Pleasanton Job Number: 720-90960-1

SDG No.:

Project: Brisbane OU-2 Data Gap Investigation

Client Sample ID	Lab Sample ID
DG-AV12S-0.5-1	720-90960-1
DG-AV12S-3.5-4	720-90960-2
DG-AV12S-19.5-20	720-90960-3
DG-AP14S-0.5-1	720-90960-4
DG-AP14S-3.5-4	720-90960-5
DG-AM14S-1-1.5	720-90960-6
DG-AL14S-0.5-1	720-90960-7
DG-AL14S-3.5-4	720-90960-8
DG-AK14S-0.5-1	720-90960-9
DG-AK14S-3.5-4	720-90960-10
DG-AK16S-0.5-1	720-90960-11
DG-AK16S-3.5-4	720-90960-12
DG-AL16S-0.5-1	720-90960-13
DG-AL15S-1-1.5	720-90960-14
DG-AJ14S-0.5-1	720-90960-15
DG-AJ14S-3.5-4	720-90960-16
DG-AJ15S-0.5-1	720-90960-17
DG-AJ15S-3.5-4	720-90960-18
DG-AI16S-1-1.5	720-90960-19
DG-AI17S-0.5-1	720-90960-20
DG-AI17S-3.5-4	720-90960-21
DG-AH15S-0.5-1	720-90960-22
DG-AH16S-0.5-1	720-90960-23
DG-AH16S-3.5-4	720-90960-24
DUP-104	720-90960-25
DUP-103	720-90960-26
DUP-120	720-90960-27
DG-AG16S-0.5-1	720-90960-28
DG-AG16S-3.5-4	720-90960-29

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Pleasanto Job Number: 720-90960-1

SDG Number:

Matrix: Solid Instrument ID: BAL-3

Method: Moisture MDL Date: 07/03/2007 10:25

Analyte	Wavelength/ Mass	RL (%)	MDL (%)
Percent Moisture		0.1	0.05

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Pleasanton Job No.: 720-90960-1

SDG No.:

Instrument ID: BAL-3 Analysis Method: Moisture

Start Date: 01/24/2019 13:49 End Date: 01/24/2019 13:49

Lab Sample Id	D/F	Type	Time	Analytes																								
				Moist																								
720-90960-1	1	T	13:49	X																								
720-90960-1 DU	1	T	13:49	X																								
720-90960-2	1	T	13:49	X																								
720-90960-3	1	T	13:49	X																								
720-90960-4	1	T	13:49	X																								
720-90960-5	1	T	13:49	X																								
720-90960-6	1	T	13:49	X																								
720-90960-7	1	T	13:49	X																								
720-90960-8	1	T	13:49	X																								
720-90960-9	1	T	13:49	X																								
720-90960-10	1	T	13:49	X																								
720-90960-11	1	T	13:49	X																								
720-90960-12	1	T	13:49	X																								
720-90960-13	1	T	13:49	X																								
720-90960-14	1	T	13:49	X																								
720-90960-15	1	T	13:49	X																								
720-90960-16	1	T	13:49	X																								
720-90960-17	1	T	13:49	X																								
720-90960-18	1	T	13:49	X																								
720-90960-19	1	T	13:49	X																								

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Pleasanton   Job No.: 720-90960-1

SDG No.:

Instrument ID: BAL-3   Analysis Method: Moisture

Start Date: 01/24/2019 14:24   End Date: 01/24/2019 14:24

Lab Sample Id	D/F	Type	Time	Analytes																									
				Moist																									
720-90960-20	1	T	14:24	X																									
720-90960-20 DU	1	T	14:24	X																									
720-90960-21	1	T	14:24	X																									
720-90960-22	1	T	14:24	X																									
720-90960-23	1	T	14:24	X																									
720-90960-24	1	T	14:24	X																									
720-90960-25	1	T	14:24	X																									
720-90960-26	1	T	14:24	X																									
720-90960-27	1	T	14:24	X																									
720-90960-28	1	T	14:24	X																									
720-90960-29	1	T	14:24	X																									
ZZZZZZ			14:24																										
ZZZZZZ			14:24																										
ZZZZZZ			14:24																										
ZZZZZZ			14:24																										
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ZZZZZZ			14:24																										
ZZZZZZ			14:24																										
ZZZZZZ			14:24																										
ZZZZZZ			14:24																										

Prep Types:
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259151 Batch Start Date: 01/24/19 13:49 Batch Analyst: Le, Tony N

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
720-90960-A-1	DG-AV12S-0.5-1	Moisture	T	1	1.2810 g	7.0994 g	6.2703 g		
720-90960-A-1 DU	DG-AV12S-0.5-1	Moisture	T	2	1.2792 g	7.1492 g	6.3428 g		
720-90960-A-2	DG-AV12S-3.5-4	Moisture	T	3	1.2777 g	7.1631 g	6.2994 g		
720-90960-A-3	DG-AV12S-19.5-20	Moisture	T	4	1.2855 g	7.7470 g	6.6343 g		
720-90960-A-4	DG-AP14S-0.5-1	Moisture	T	5	1.2807 g	7.0950 g	6.3812 g		
720-90960-A-5	DG-AP14S-3.5-4	Moisture	T	6	1.2790 g	7.7785 g	6.7356 g		
720-90960-A-6	DG-AM14S-1-1.5	Moisture	T	7	1.2793 g	7.3741 g	6.7178 g		
720-90960-A-7	DG-AL14S-0.5-1	Moisture	T	8	1.2825 g	7.3229 g	6.8054 g		
720-90960-A-8	DG-AL14S-3.5-4	Moisture	T	9	1.2821 g	7.0343 g	6.4668 g		
720-90960-A-9	DG-AK14S-0.5-1	Moisture	T	10	1.2757 g	7.0107 g	6.3696 g		
720-90960-A-10	DG-AK14S-3.5-4	Moisture	T	11	1.2765 g	7.1559 g	6.0834 g		
720-90960-A-11	DG-AK16S-0.5-1	Moisture	T	12	1.2898 g	7.0353 g	6.5442 g		
720-90960-A-12	DG-AK16S-3.5-4	Moisture	T	13	1.2823 g	7.4962 g	6.5699 g		
720-90960-A-13	DG-AL16S-0.5-1	Moisture	T	14	1.2880 g	7.3717 g	6.3005 g		
720-90960-A-14	DG-AL15S-1-1.5	Moisture	T	15	1.2825 g	7.4975 g	6.8567 g		
720-90960-A-15	DG-AJ14S-0.5-1	Moisture	T	16	1.2887 g	7.1955 g	6.5530 g		
720-90960-A-16	DG-AJ14S-3.5-4	Moisture	T	17	1.2915 g	7.5985 g	7.0866 g		
720-90960-A-17	DG-AJ15S-0.5-1	Moisture	T	18	1.2901 g	7.3026 g	6.7734 g		
720-90960-A-18	DG-AJ15S-3.5-4	Moisture	T	19	1.2876 g	7.4648 g	6.8893 g		
720-90960-A-19	DG-AI16S-1-1.5	Moisture	T	20	1.2828 g	7.6651 g	7.3249 g		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259151 Batch Start Date: 01/24/19 13:49 Batch Analyst: Le, Tony N

Batch Method: Moisture Batch End Date:

Batch Notes	
Balance ID	BAL3
Date and Time Samples in Desiccator	01/25/2019 10:00
Date and Time Samples out of Desiccator	01/25/2019 12:11
Date samples were placed in the oven	01/24/2019
Oven Temp In	104.7 Degrees C
Time samples were place in the oven	14:17
Date samples were removed from oven	01/25/2019
Oven Temp Out	104.7 Degrees C
Time Samples were removed from oven	10:00
Oven ID	5
Thermometer ID	OVEN THERMO
Temperature - Start - Uncorrected	103 + 1.7 Degrees C
Temperature - End - Uncorrected	103 + 1.7 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Pleasant Job No.: 720-90960-1

SDG No.:

Batch Number: 259155 Batch Start Date: 01/24/19 14:24 Batch Analyst: Le, Tony N

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
720-90960-A-20	DG-AI17S-0.5-1	Moisture	T	21	1.2812 g	7.6343 g	6.9388 g		
720-90960-A-20 DU	DG-AI17S-0.5-1	Moisture	T	22	1.2815 g	7.6408 g	6.9723 g		
720-90960-A-21	DG-AI17S-3.5-4	Moisture	T	23	1.2799 g	7.1719 g	6.1490 g		
720-90960-A-22	DG-AH15S-0.5-1	Moisture	T	24	1.2825 g	7.2303 g	6.7108 g		
720-90960-A-23	DG-AH16S-0.5-1	Moisture	T	25	1.2772 g	7.1213 g	6.3951 g		
720-90960-A-24	DG-AH16S-3.5-4	Moisture	T	26	1.2815 g	7.2078 g	6.2576 g		
720-90960-A-25	DUP-104	Moisture	T	27	1.2796 g	7.6758 g	7.1670 g		
720-90960-A-26	DUP-103	Moisture	T	28	1.2798 g	8.0586 g	7.4261 g		
720-90960-A-27	DUP-120	Moisture	T	29	1.2856 g	7.0321 g	6.0854 g		
720-90960-A-28	DG-AG16S-0.5-1	Moisture	T	30	1.2853 g	7.1886 g	6.6547 g		
720-90960-A-29	DG-AG16S-3.5-4	Moisture	T	31	1.2854 g	8.1565 g	6.5971 g		

Batch Notes	
Balance ID	BAL3
Date and Time Samples in Desiccator	01/25/2019 10:04
Date and Time Samples out of Desiccator	01/25/2019 12:21
Date samples were placed in the oven	01/24/2019
Oven Temp In	104.7 Degrees C
Time samples were place in the oven	14:40
Date samples were removed from oven	01/25/2019
Oven Temp Out	104.7 Degrees C
Time Samples were removed from oven	10:04
Oven ID	5
Thermometer ID	OVEN THERMO
Temperature - Start - Uncorrected	103 + 1.7 Degrees C
Temperature - End - Uncorrected	103 + 1.7 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90960

Chain of Custody Record

1886047

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/22/19	COC No 1886047
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler Dylan James-Kavanagh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90960 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
1	DG AV12S-0.5-1	1/22/19	845	G	S	1	N		X	
2	DG AV12S-3.5-4		845							
3	DG AV12S-19S-20		900							
4	DG-AP14S-0.5-1		945							
5	DG AP14S-3.5-4		945							
6	DG-AM14S-1-1.5		1005							
7	DG-AL14S-0.5-1		1015							
8	DG AL14S-3.5-4		1015							
9	DG-AK14S-0.5-1		1050							
10	DG-AK14S-3.5-4		1050							
11	DG-AK16S-0.5-1		1135							
12	DG AK16S-3.5-4	↓	1135	↓	↓	↓		Y	↓	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company Geosyntec	Date/Time 1551 22 Jan, 2019	Received by	Company TAPLS	Date/Time 1/22/19 1551
Relinquished by	Company TAPLS	Date/Time 1/22/19 1840	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/22/19 1840

2-2.1-3/1-8/3-8 C

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

1866047

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 22 January 2019	COC No 1866047
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Dylan James - Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client.
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
13	DG-AL16s-0.5-1	22 Jan. 2019	1150	G	S	1	N		X	
14	DG-AL15s-1-1.5		1155							
15	DG-AJ14s-0.5-1		1315							
16	DG-AJ14s-3.5-4		1315							
17	DG-AJ15s-0.5-1		1330							
18	DG-AJ15s-3.5-4		1330							
19	DG-AI16s-1-1.5		1350							
20	DG-AI17s-0.5-1		1410							
21	DG-AI17s-3.5-4		1410							
22	DG-AH15s-0.5-1		1430							
23	DG-AH16s-0.5-1		1440							
24	DG-AH16s-3.5-4	↓	1440	↓	↓	↓			↓	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by	Company: Geosyntec	Date/Time: 1551 / 22 Jan. 2019	Received by	Company: TA-PLS
Relinquished by	Company: TA-PLS	Date/Time: 1/22/19 1840	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/22/19 1840

22 11.3/1.8/2.8C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

TestAmerica

188047

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 22 January 2019	COC No 188047
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Dylan James-Kavanaugh
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	CAM-17 Metals (6010B, 7471)	Sample Specific Notes
25 DUP-104	1/22/19	—	G	S	1	N		X	
26 DUP-103	↓	—	↓	↓	↓			↓	
27 DUP-120		—							
28 DG-AG16s-0.5-1		1510							
29 DG-AG16s-3.5-4	↓	1510	↓	↓	↓			↓	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd. _____ Therm ID No. _____			
Relinquished by	Company Geosyntec	Date/Time 1551 22 Jan 2019	Received by	Company TAPLS	Date/Time 1/22/19 1551
Relinquished by	Company TAPLS	Date/Time 1/22/19 1640	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/22/19 1840

2-2/1-3/1-8/3-8/C

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 720-90960-1

Login Number: 90960
List Number: 1
Creator: Bullock, Tracy

List Source: Eurofins TestAmerica, Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 720-90961-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
2/16/2019 4:56 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/16/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Method 8015B - DRO Sample Data 7

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Job Narrative
720-90961-1

Comments
No additional comments.

Receipt
The samples were received on 1/22/2019 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 1.8º C, 2.2º C and 3.8º C.

Receipt Exceptions
Received a Trip Blank not listed on the chain-of-custody (COC). Trip was added to job 720-90959 per client request (see Correspondence email).

GC/MS VOA
Method 8260B/CA_LUFTMS: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: DG-X13S-0.5-1 (720-90961-11[MSD]). The matrix spike and parent sample surrogate recovery was within limits. The MSD sample has been qualified and reported. Matrix interference is suspected.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-525143 recovered outside control limits for the following analyte: Trichloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a "*" symbol.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-525161 and analytical batch 440-525143 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AO11S-0.5-1 (720-90961-5), DG-AA15S-0.5-1 (720-90961-10) and DG-X13S-3.5-4 (720-90961-13). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The laboratory control sample (LCS) for preparation batch 720-259467 and analytical batch 720-259713 recovered outside control limits for the following analytes: Chrysene. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Affected sample results for these compounds have been qualified with a "*" symbol

Method 8270C SIM: Surrogate recovery for the following samples were outside control limits: DG-AO11S-0.5-1 (720-90961-5), DG-AA15S-0.5-1 (720-90961-10) and DG-X13S-3.5-4 (720-90961-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: DG-X13S-0.5-1 (720-90961-11), DG-X13S-0.5-1 (720-90961-11[MS]) and DG-X13S-0.5-1 (720-90961-11[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: Internal standard responses were outside of acceptance limits for the following samples: DG-AA15S-0.5-1 (720-90961-10) and DG-X13S-3.5-4 (720-90961-13). The samples show evidence of matrix interference; confirmed by re-analysis. Affected analytes have been qualified with a "*" symbol.

Method 8270C SIM: The method blank for preparation batch 720-259774 and analytical batch 720-259797 contained Benzo[a]pyrene and Benzo[k]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-259467 and analytical batch 720-259713 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: (720-91048-E-19-J MS) and (720-91048-E-19-K MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The matrix spike (MS) recoveries for preparation batch 720-259774 and analytical batch 720-259797 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: Surrogate recoveries for the following samples were outside control limits: DG-AK11S-0.5-1 (720-90961-1), DG-AO11S-3.5-4 (720-90961-6), DG-X13S-0.5-1 (720-90961-11) and DUP-110 (720-90961-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AK11S-0.5-1 (720-90961-1), DG-AK11S-3.5-4 (720-90961-2), DG-AM11S-3.5-4 (720-90961-4), DG-AO11S-3.5-4 (720-90961-6), DG-AB13S-0.5-1 (720-90961-7), DG-AB13S-13.5-14 (720-90961-9), DG-X13S-0.5-1 (720-90961-11), DG-R9S-0.5-1 (720-90961-14) and DUP-110 (720-90961-16). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The following samples required a dilution due to the nature of the sample matrix: DG-AK11S-3.5-4 (720-90961-2) and DG-AB13S-13.5-14 (720-90961-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: Internal standard responses were outside of acceptance limits for the following samples: DG-AO11S-3.5-4 (720-90961-6) and DUP-110 (720-90961-16). The samples show evidence of matrix interference; confirmed by re-analysis. Affected analytes have been qualified with a "*" symbol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: (720-90948-E-7-M), (720-90948-E-7-L MS) and (720-90948-D-7-H MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: Due to the high concentration of Diesel Range Organics [C10-C28], the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 720-259352 and analytical batch 720-259447 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-X13S-0.5-1 (720-90961-11), DG-X13S-0.5-1 (720-90961-11[MS]), DG-X13S-0.5-1 (720-90961-11[MSD]), DG-R9S-0.5-1 (720-90961-14) and DUP-110 (720-90961-16). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: DG-AK11S-0.5-1 (720-90961-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The following samples required a dilution due to the nature of the sample matrix: DG-AK11S-3.5-4 (720-90961-2) and DG-AB13S-13.5-14 (720-90961-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: Surrogate recovery for the following sample was outside the upper control limit: DG-AB13S-0.5-1 (720-90961-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The following samples were diluted due to color: DG-AK11S-3.5-4 (720-90961-2), DG-AM11S-3.5-4 (720-90961-4), DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6) and DG-AB13S-13.5-14 (720-90961-9). Elevated reporting limits (RL) are provided.

Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AK11S-3.5-4 (720-90961-2), DG-AM11S-3.5-4 (720-90961-4), DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6), DG-AB13S-0.5-1 (720-90961-7), DG-AB13S-13.5-14 (720-90961-9) and DG-AA15S-0.5-1 (720-90961-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259253 and analytical batch 720-259371 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8082: Surrogate recovery for the following sample was outside the upper control limit: DG-AB13S-0.5-1 (720-90961-7). This sample did not contain any target analytes; therefore, re-extraction and re-analysis was not performed. Secondary surrogate was within acceptance limits.

Method 8082: Surrogate recovery for the following sample was outside control limits: DG-AK11S-3.5-4 (720-90961-2). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AK11S-3.5-4 (720-90961-2), DG-AO11S-3.5-4 (720-90961-6) and DG-AB13S-13.5-14 (720-90961-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 7471A: The following sample was diluted to bring the concentration of target analytes within the calibration range: DG-R9S-3.5-4

(720-90961-15). Elevated reporting limits (RLs) are provided.

Method 7471A: The method blank for preparation batch 720-259166 and analytical batch 720-259511 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259216 and analytical batch 720-259533 contained Nickel above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AM11S-0.5-1 (720-90961-3), DG-AM11S-3.5-4 (720-90961-4), DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6), DG-AB13S-0.5-1 (720-90961-7), DG-AB13S-3.5-4 (720-90961-8), DG-AB13S-13.5-14 (720-90961-9), DG-AA15S-0.5-1 (720-90961-10), DG-X13S-0.5-1 (720-90961-11), DG-X13S-0.5-1 (720-90961-11[MS]), DG-X13S-0.5-1 (720-90961-11[MSD]), DUP-77 (720-90961-12), DG-X13S-3.5-4 (720-90961-13), DG-R9S-0.5-1 (720-90961-14), DG-R9S-3.5-4 (720-90961-15), DUP-110 (720-90961-16), (720-90961-E-11-C PDS) and (720-90961-E-11-C SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259216 and analytical batch 720-259533 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259533 was outside control limits for Barium-26%, Cobalt-34%, Chromium-17%, Copper-27%, Nickel-22%, Lead-25%, Vanadium-26%, Zinc-24%: (720-90961-E-11-C SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AK11S-0.5-1 (720-90961-1) and DG-AK11S-3.5-4 (720-90961-2). Elevated reporting limits (RLs) are provided.

Method 6010B: The method blank for preparation batch 720-259167 and analytical batch 720-259583 contained Barium and Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259167 and analytical batch 720-259583 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259583 was outside control limits for Cobalt-14%, Chromium-11%, and Lead-13%: (720-90960-A-12-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: (720-90960-A-12-F), (720-90960-A-12-D MS), (720-90960-A-12-E MSD), (720-90960-A-12-F PDS) and (720-90960-A-12-F SD). Elevated reporting limits (RLs) are provided.

Method 6010B: The continuing calibration blank (CCB) for analytical batch 720-259583 contained Lead above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: Internal standard responses were outside of acceptance limits for the following samples: (ICSA 720-259535/7) and (ICSAB 720-259535/8).

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6), DG-X13S-0.5-1 (720-90961-11) and DG-R9S-3.5-4 (720-90961-15). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8015_3546: Due to the matrix, the following samples could not be concentrated to the final method required volume and were volumed to 5 mL. DG-AK11S-3.5-4 (720-90961-2), DG-AM11S-3.5-4 (720-90961-4) and DG-AO11S-3.5-4 (720-90961-6). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8015_3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 10 mL. DG-AB13S-13.5-14 (720-90961-9). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM_3546: Due to the matrix, the following samples could not be concentrated to the final method required volume and were volumed to 2 mL. DG-AO11S-0.5-1 (720-90961-5), DG-AO11S-3.5-4 (720-90961-6) and DG-AA15S-0.5-1 (720-90961-10). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM_3546: Due to the matrix, the following samples could not be concentrated to the final method required volume and were volumed to 5 mL. DG-AK11S-3.5-4 (720-90961-2) and DG-AB13S-13.5-14 (720-90961-9). The reporting limits (RLs) are elevated proportionately.

Method 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AK11S-3.5-4 (720-90961-2) and DG-AB13S-13.5-14 (720-90961-9). The reporting limits (RLs) are elevated proportionately. The sample720-90961-E-2 was volumed up to 5mL and the sample 720-90961-E-9 was volumed up to 10 mL.

Method 3546: The following sample was diluted due to the nature of the sample matrix: DG-AB13S-13.5-14 (720-90961-9). Elevated reporting limits (RLs) are provided. 8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_007.d
Lims ID: 720-90961-E-1-D
Client ID: DG-AK11S-0.5-1
Sample Type: Client
Inject. Date: 05-Feb-2019 11:51:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 136 Name: 720-0056441-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\DRO5B.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:51:35 Calib Date: 05-Feb-2019 09:42:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:51:35

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.662	2.643	0.020	166	NC	
	23 n-Decane	3.880	3.860	0.020	1305	NC	
A	21 Stoddard Solvent	4.598	(2.643-6.554)		247808	21.8	
A	1 C9-C13	4.598	(2.643-6.554)		247808	19.6	
A	57 C10-C12	4.807	(3.860-5.755)		89885	9.15	
	24 Dodecane	5.715	5.755	-0.040	14757	NC	
A	3 C9 - C17	5.951	(2.643-9.260)		1324428	96.4	
A	47 C9 - C18	6.239	(2.643-9.835)		1821563	162.3	
A	60 C10-C16	6.244	(3.860-8.628)		971599	80.1	
A	25 C9-C19	6.515	(2.643-10.387)		2223464	161.3	
A	15 Kerosene	6.515	(2.643-10.387)		2223464	197.6	
	26 C13		6.554			ND	
$	27 n-Decanoic Acid (Surr)		7.176			ND	U
A	59 C12-C16	7.192	(5.755-8.628)		896471	91.3	
A	62 C10-C20	7.390	(3.860-10.920)		2774101	282.5	
A	28 C9-C24	7.740	(2.643-12.837)		5053427	514.7	
A	29 C9-C25	7.957	(2.643-13.271)		5421846	552.2	
A	54 C10-C23	8.123	(3.860-12.387)		4445986	452.8	
A	4 C10-C24	8.348	(3.860-12.837)		5050629	514.4	
A	16 C10-C25	8.565	(3.860-13.271)		5419048	551.9	
	45 Hexadecane	8.640	8.628	0.012	132412	NC	
A	14 C10-C26	8.774	(3.860-13.689)		5984102	609.5	
A	67 C12-C22	8.836	(5.755-11.918)		3753197	382.3	
A	12 Unknown Hydrocarbons	9.171	(3.860-14.482)		6834295	NC	
A	32 C10-C28	9.171	(3.860-14.482)		6834295	696.1	
A	5 Diesel	9.171	(3.860-14.482)		6834295	696.1	
A	30 C13-C22	9.236	(6.554-11.918)		3627927	369.5	
	44 Heptadecane	9.281	9.260	0.021	198093	NC	
A	31 C12-C24	9.296	(5.755-12.837)		4975501	506.8	
	49 n-Octadecane	9.880	9.835	0.045	104395	NC	
A	11 Bunker Range Organics (C9-	9.918	(2.643-17.193)		10643396	NC	
A	9 Crude Oil Range Organics (	9.918	(2.643-17.193)		9807829	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.918	(2.643-17.193)		9807829	878.8	
33 C19	10.395	10.387	0.008	181160	NC	
A 64 C13-C28	10.518	(6.554-14.482)		6633897	675.7	
A 17 C10-C36	10.527	(3.860-17.193)		10640598	1083.8	
A 68 Crude Oil Range Organics (	10.672	(2.643-18.702)		10581717	NC	
A 13 C9-C40	10.672	(2.643-18.702)		10581717	1342.5	
A 58 C16-C24	10.733	(8.628-12.837)		4079030	415.5	
61 icosane		10.920			ND	
A 6 C10-C40	11.281	(3.860-18.702)		10575775	1341.9	
$ 34 p-Terphenyl		11.890			ND	U
35 n-Docosane	12.014	11.918	0.096	112867	NC	
A 18 C12-C40	12.228	(5.755-18.702)		10472810	1328.9	
36 Tricosane	12.421	12.387	0.034	196219	NC	
A 66 C13-C40	12.628	(6.554-18.702)		9639742	1223.8	
37 n-Tetracosane		12.837			ND	
A 2 C16-C36 ORO	12.911	(8.628-17.193)		5631745	789.4	
38 C25	13.277	13.271	0.006	151120	NC	
A 19 C16-C40	13.665	(8.628-18.702)		9465123	1199.3	
46 n-Hexacosane	13.660	13.689	-0.029	173222	NC	
A 20 C19-C36	13.790	(10.387-17.193)		6483098	831.4	
A 55 C23-C32	14.153	(12.387-15.919)		3128492	761.6	
39 n-Octacosane	14.428	14.482	-0.054	86282	NC	
65 C29	14.954	14.859	0.095	311056	NC	
A 7 Motor Oil	15.015	(12.837-17.193)		3420407	599.2	
A 40 C24-C36	15.015	(12.837-17.193)		4410563	772.7	M
A 50 C25-C36	15.232	(13.271-17.193)		3050426	566.8	
A 10 C22-C40	15.310	(11.918-18.702)		4585590	578.8	
A 41 C23-C40	15.544	(12.387-18.702)		4169786	539.4	
A 8 C24-C40	15.769	(12.837-18.702)		3785461	507.5	
56 Dotriacontane		15.919			ND	
A 51 C28-C40	16.592	(14.482-18.702)		2324181	447.1	
A 63 C29-C40	16.780	(14.859-18.702)		1954037	417.5	
42 n-Hexatriacontane		17.193			ND	
43 C40		18.702			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

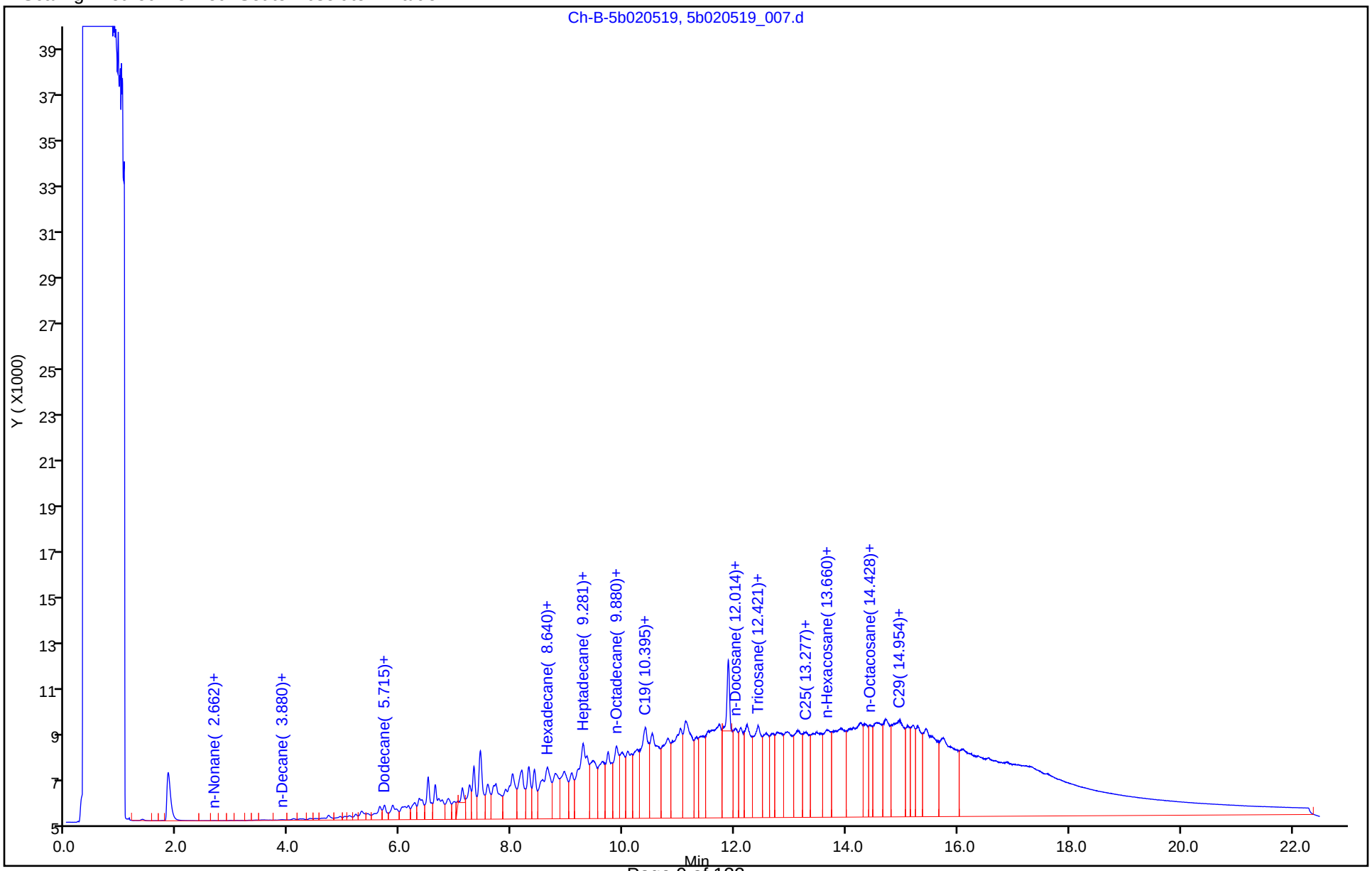
U - Marked Undetected

Report Date: 05-Feb-2019 12:51:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

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Injection Date:	05-Feb-2019 11:51:00	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-1-D	Lab Sample ID:	720-90961-1	Worklist Smp#:	7
Client ID:	DG-AK11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

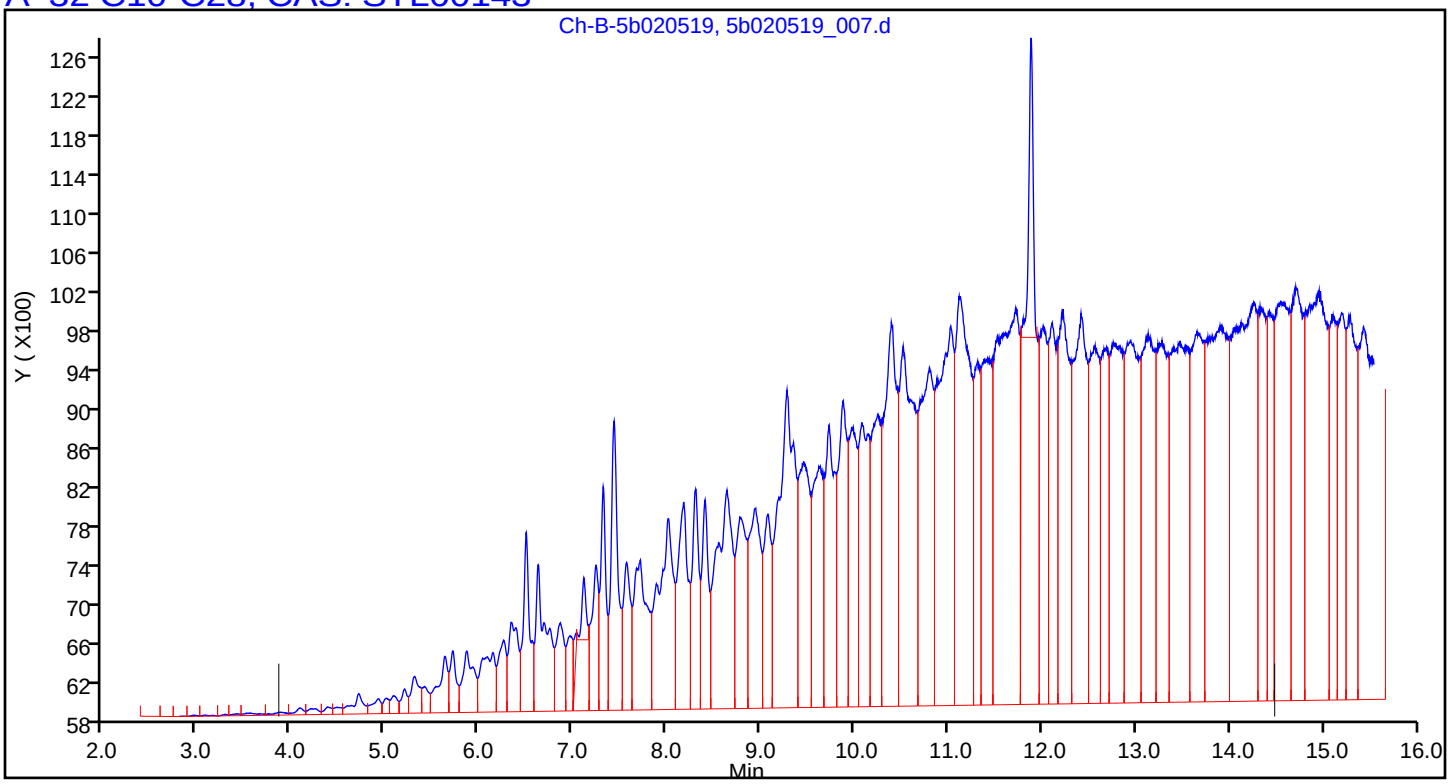


Report Date: 05-Feb-2019 12:51:37 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_007.d				
Injection Date:	05-Feb-2019 11:51:00	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-1-D	Lab Sample ID:	720-90961-1		
Client ID:	DG-AK11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

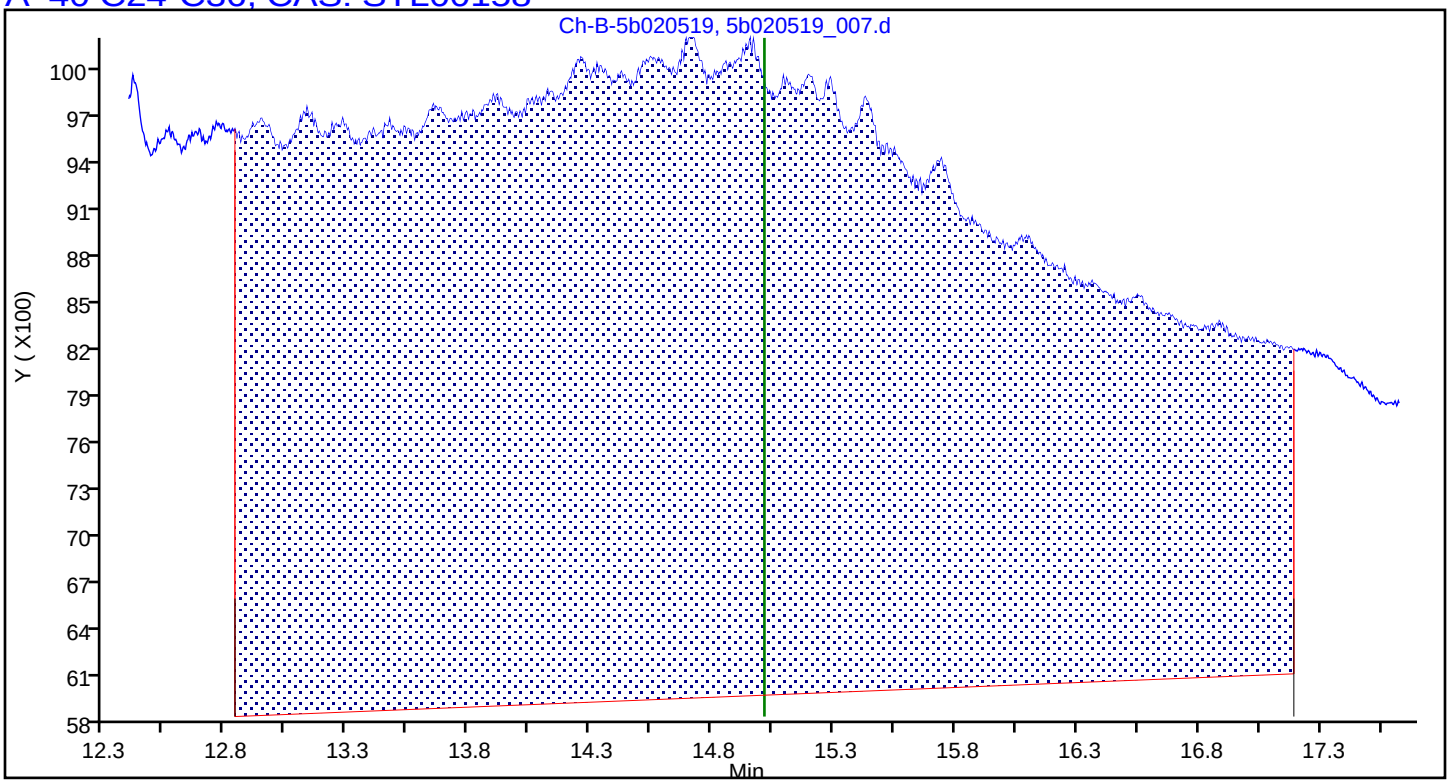


Report Date: 05-Feb-2019 12:51:38 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_007.d				
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Lims ID:	720-90961-E-1-D	Lab Sample ID:	720-90961-1		
Client ID:	DG-AK11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

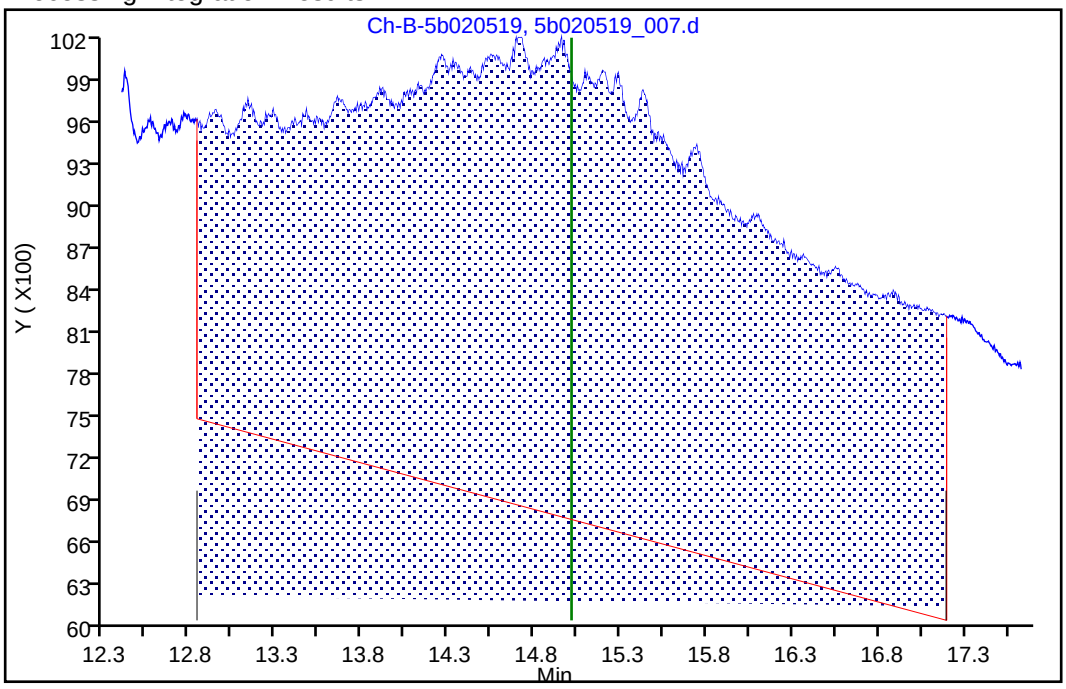
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Lims ID:	720-90961-E-1-D	Lab Sample ID:	720-90961-1		
Client ID:	DG-AK11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.015, CAS: STL00158

Signal: 1

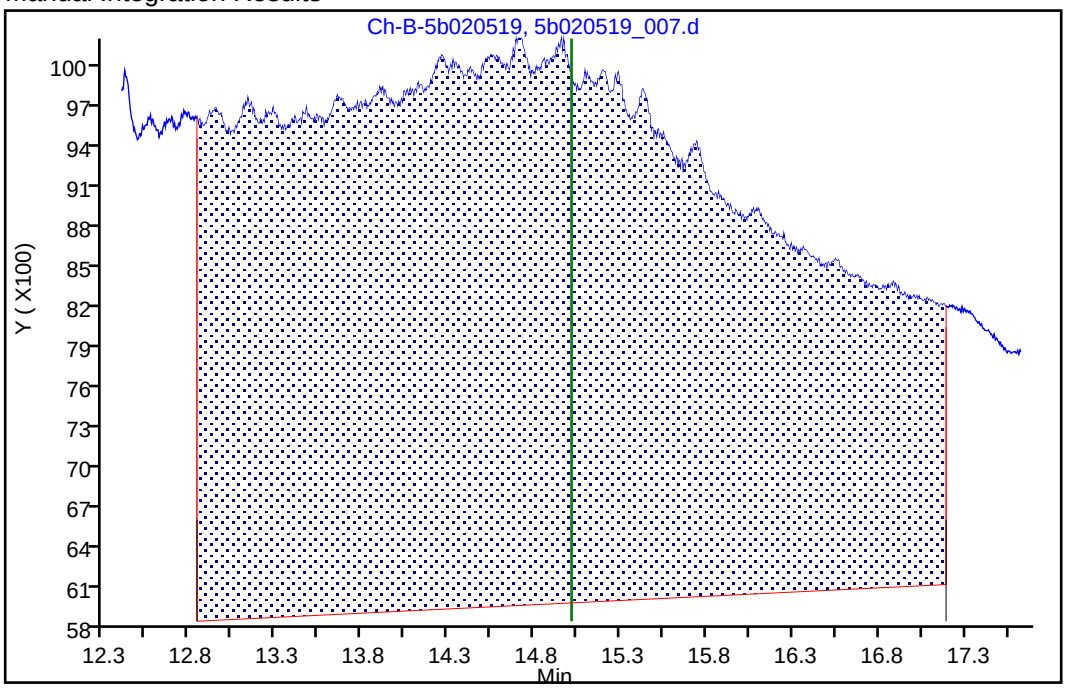
Processing Integration Results

RT: 15.02
Response: 3421859
Amount: 599.4611



Manual Integration Results

RT: 15.02
Response: 4410563
Amount: 772.6680



Reviewer: luj, 05-Feb-2019 12:51:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

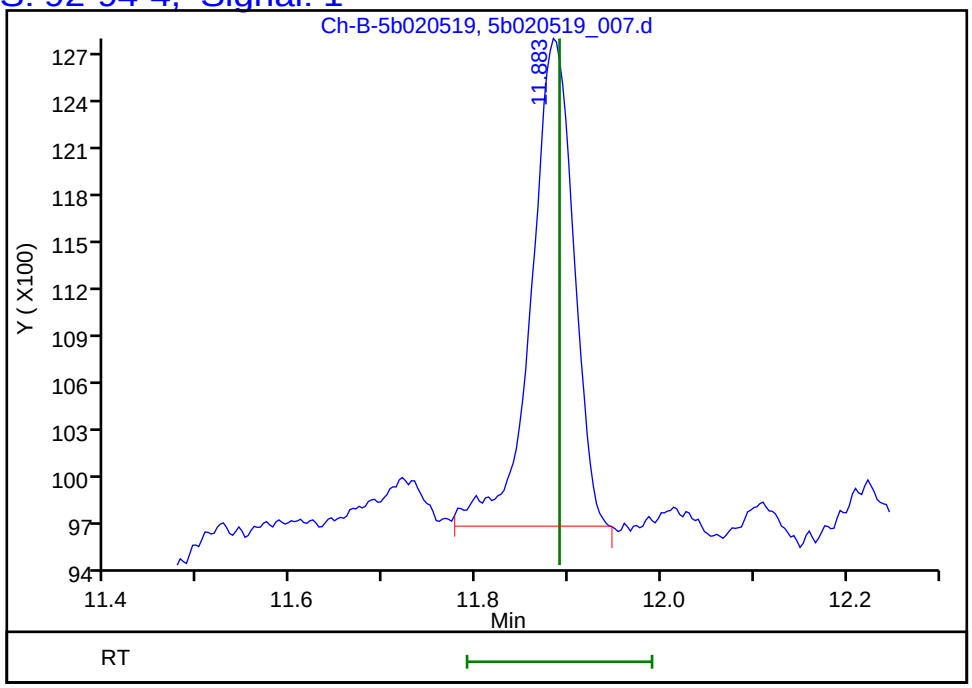
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_007.d				
Injection Date:	05-Feb-2019 11:51:00	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-1-D	Lab Sample ID:	720-90961-1		
Client ID:	DG-AK11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.88
Response: 48537
Amount: 4.225923



Reviewer: luj, 05-Feb-2019 12:51:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_038.d
Lims ID: 720-90961-E-2-D
Client ID: DG-AK11S-3.5-4
Sample Type: Client
Inject. Date: 05-Feb-2019 03:37:28 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 100.0000
Sample Info: #: 015 Name: 720-0056421-038
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:32:53 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:32:53

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.502			ND	
	23 n-Decane	3.792	3.751	0.041	693	NC	
A	1 C9-C13	4.492	(2.502-6.482)		211317	NC	
A	21 Stoddard Solvent	4.492	(2.502-6.482)		211317	NC	
A	57 C10-C12	4.714	(3.751-5.677)		81175	8.28	
	24 Dodecane	5.645	5.677	-0.032	55073	NC	
A	3 C9 - C17	5.856	(2.502-9.211)		1608679	132.7	
A	47 C9 - C18	6.153	(2.502-9.805)		2321304	215.7	
A	60 C10-C16	6.162	(3.751-8.573)		1031402	93.6	
A	15 Kerosene	6.422	(2.502-10.342)		2853083	264.6	
A	25 C9-C19	6.422	(2.502-10.342)		2853083	233.7	
	26 C13		6.482			ND	
A	59 C12-C16	7.125	(5.677-8.573)		1005300	102.6	
$	27 n-Decanoic Acid (Surr)		7.135			ND	U
A	62 C10-C20	7.314	(3.751-10.878)		3559215	363.1	
A	28 C9-C24	7.654	(2.502-12.806)		7454221	760.6	
A	29 C9-C25	7.872	(2.502-13.242)		8077880	824.2	
A	54 C10-C23	8.051	(3.751-12.352)		6465523	659.7	
A	4 C10-C24	8.278	(3.751-12.806)		7453689	760.5	
A	16 C10-C25	8.496	(3.751-13.242)		8077348	824.1	
	45 Hexadecane	8.609	8.573	0.036	339468	NC	
A	14 C10-C26	8.706	(3.751-13.662)		8812807	899.2	
A	67 C12-C22	8.779	(5.677-11.881)		5411748	552.2	
A	12 Unknown Hydrocarbons	9.105	(3.751-14.460)		10448343	NC	
A	32 C10-C28	9.105	(3.751-14.460)		10448343	1066.0	
A	5 Diesel	9.105	(3.751-14.460)		10448343	1066.0	
A	30 C13-C22	9.182	(6.482-11.881)		5227065	533.3	
	44 Heptadecane	9.249	9.211	0.038	532478	NC	
A	31 C12-C24	9.241	(5.677-12.806)		7427587	757.8	
	49 n-Octadecane		9.805			ND	
A	9 Crude Oil Range Organics (	9.843	(2.502-17.185)		15247352	NC	
A	52 Mineral oil	9.843	(2.502-17.185)		15247352	1327.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.843	(2.502-17.185)		16992999	NC	
33 C19		10.342			ND	
A 17 C10-C36	10.468	(3.751-17.185)		16992467	1733.7	
A 64 C13-C28	10.471	(6.482-14.460)		10237558	1044.5	
A 13 C9-C40	10.603	(2.502-18.703)		16537281	2064.3	
A 68 Crude Oil Range Organics (	10.603	(2.502-18.703)		16537281	NC	
A 58 C16-C24	10.689	(8.573-12.806)		6422287	655.3	
61 icosane		10.878			ND	
A 6 C10-C40	11.227	(3.751-18.703)		16532221	2063.8	
35 n-Docosane		11.881			ND	
$ 34 p-Terphenyl		11.887			ND	U
A 18 C12-C40	12.190	(5.677-18.703)		16432035	2051.2	
36 Tricosane	12.401	12.352	0.049	370690	NC	
A 66 C13-C40	12.593	(6.482-18.703)		16245511	2027.6	
37 n-Tetracosane	12.791	12.806	-0.015	617476	NC	
A 2 C16-C36 ORO	12.879	(8.573-17.185)		13852347	1825.2	
38 C25	13.249	13.242	0.007	290394	NC	
A 19 C16-C40	13.638	(8.573-18.703)		15142276	1888.2	
46 n-Hexacosane		13.662			ND	
A 20 C19-C36	13.763	(10.342-17.185)		10655682	1234.9	
A 55 C23-C32	14.128	(12.352-15.904)		6896264	1450.2	
39 n-Octacosane	14.532	14.460	0.072	373338	NC	
65 C29	14.919	14.838	0.081	1075880	NC	
A 7 Motor Oil	14.995	(12.806-17.185)		6872922	1128.2	
A 40 C24-C36	14.995	(12.806-17.185)		7371585	1210.0	M
A 50 C25-C36	15.213	(13.242-17.185)		6113945	1056.8	
A 10 C22-C40	15.292	(11.881-18.703)		9471086	1132.9	
A 41 C23-C40	15.528	(12.352-18.703)		8659851	1055.9	
A 8 C24-C40	15.755	(12.806-18.703)		7878991	990.4	
56 Dotriacontane		15.904			ND	
A 51 C28-C40	16.582	(14.460-18.703)		4931391	823.5	
A 63 C29-C40	16.771	(14.838-18.703)		4202084	770.3	
42 n-Hexatriacontane		17.185			ND	
43 C40		18.703			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

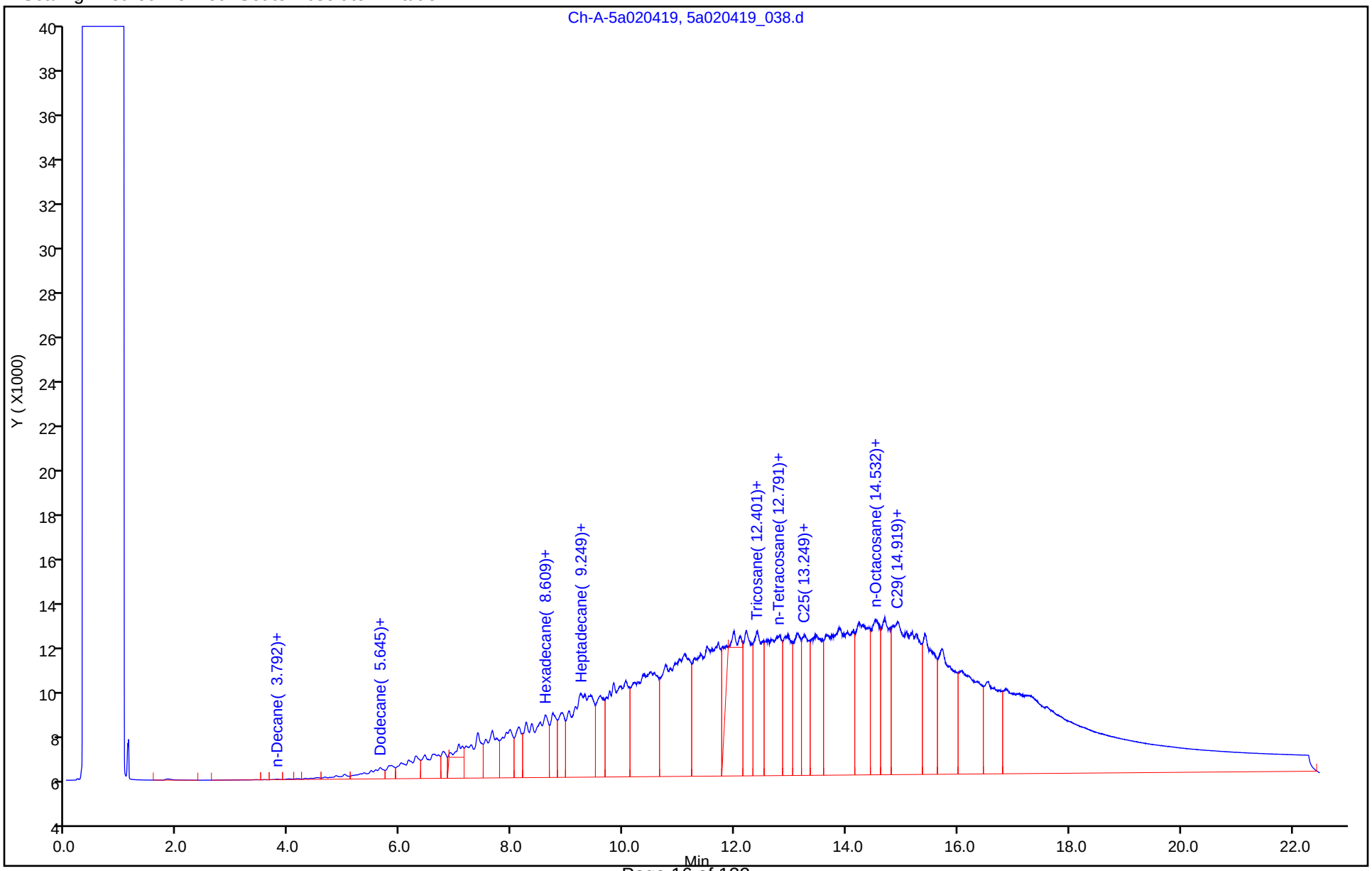
Report Date: 05-Feb-2019 12:32:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_038.d

Injection Date:	05-Feb-2019 03:37:28	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-2-D	Lab Sample ID:	720-90961-2	Worklist Smp#:	38
Client ID:	DG-AK11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	100.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

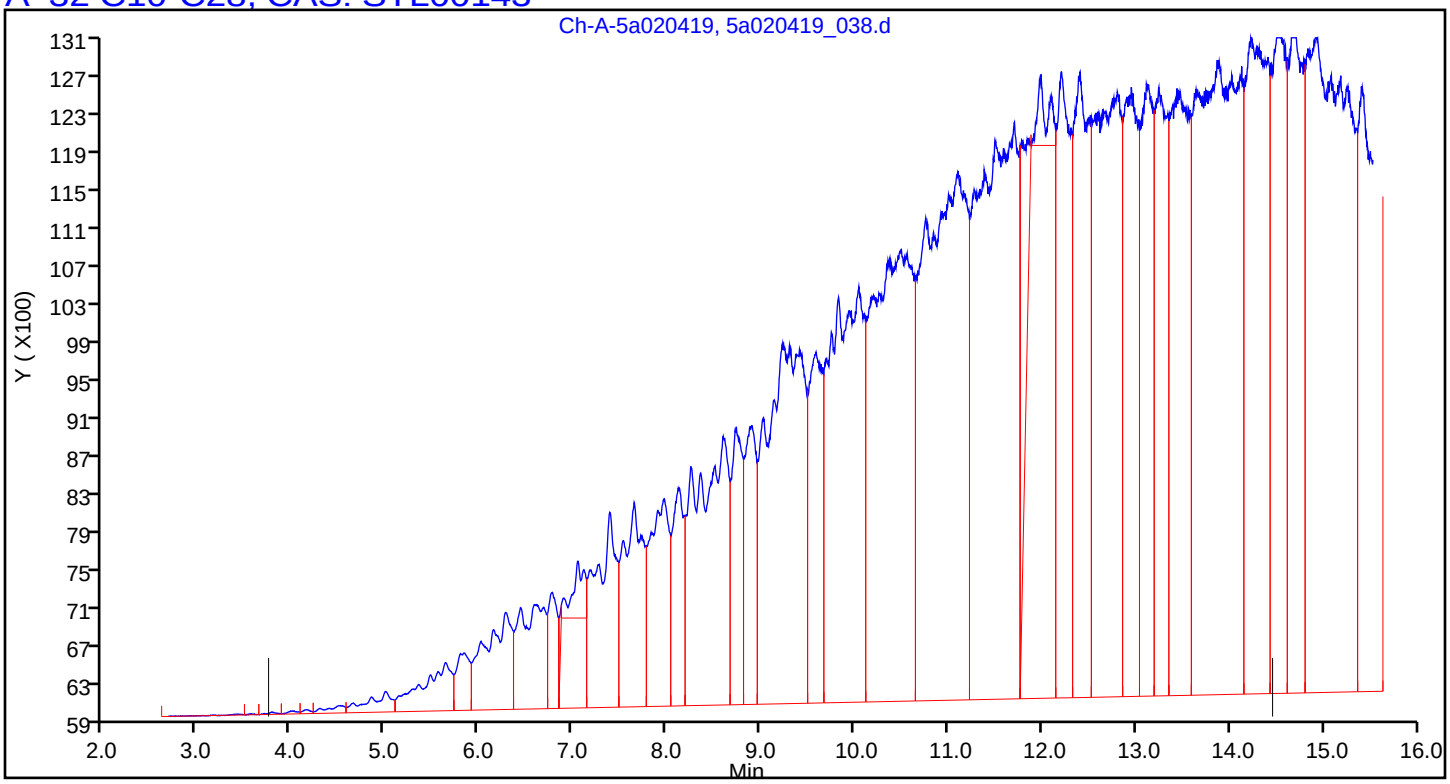


Report Date: 05-Feb-2019 12:32:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_038.d				
Injection Date:	05-Feb-2019 03:37:28	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-2-D	Lab Sample ID:	720-90961-2		
Client ID:	DG-AK11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

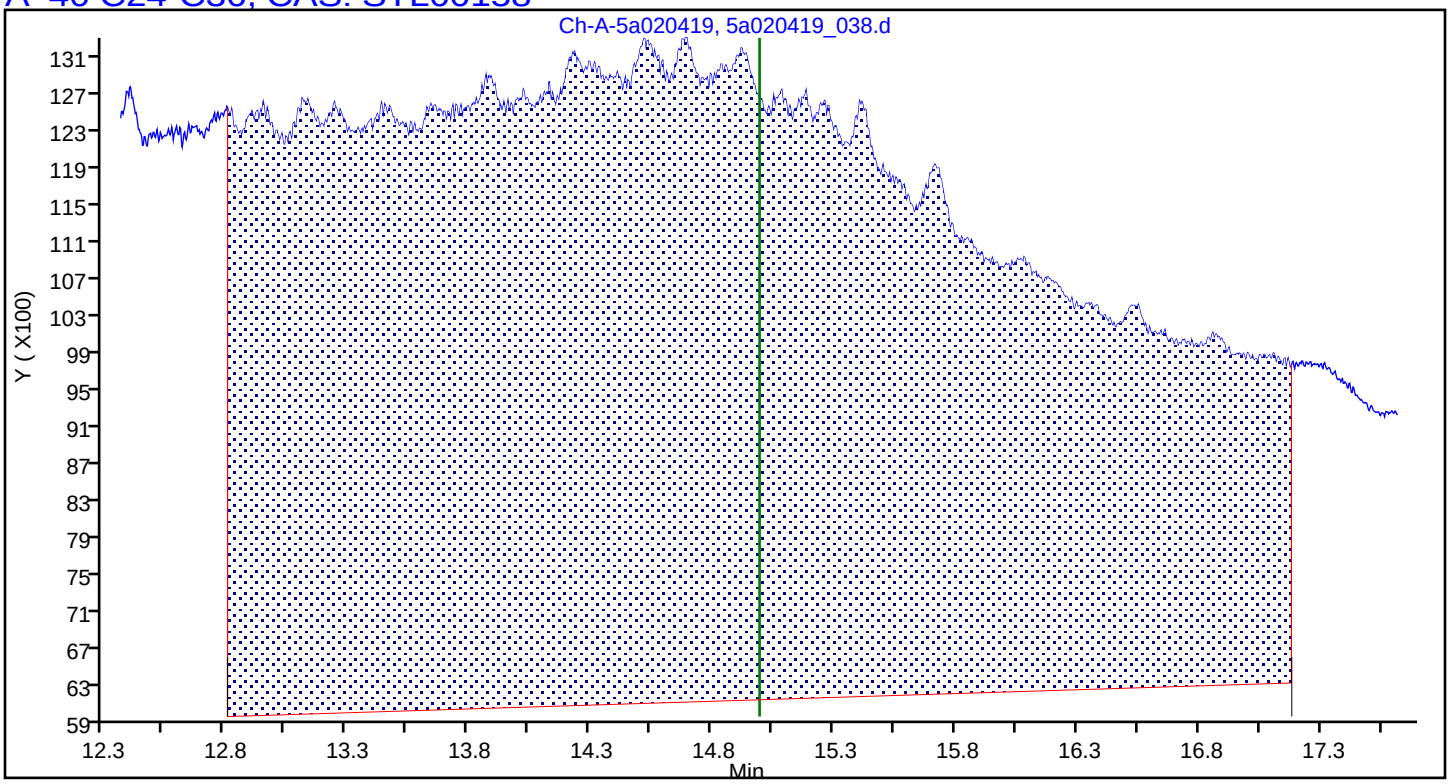


Report Date: 05-Feb-2019 12:32:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_038.d				
Injection Date:	05-Feb-2019 03:37:28	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-2-D	Lab Sample ID:	720-90961-2		
Client ID:	DG-AK11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

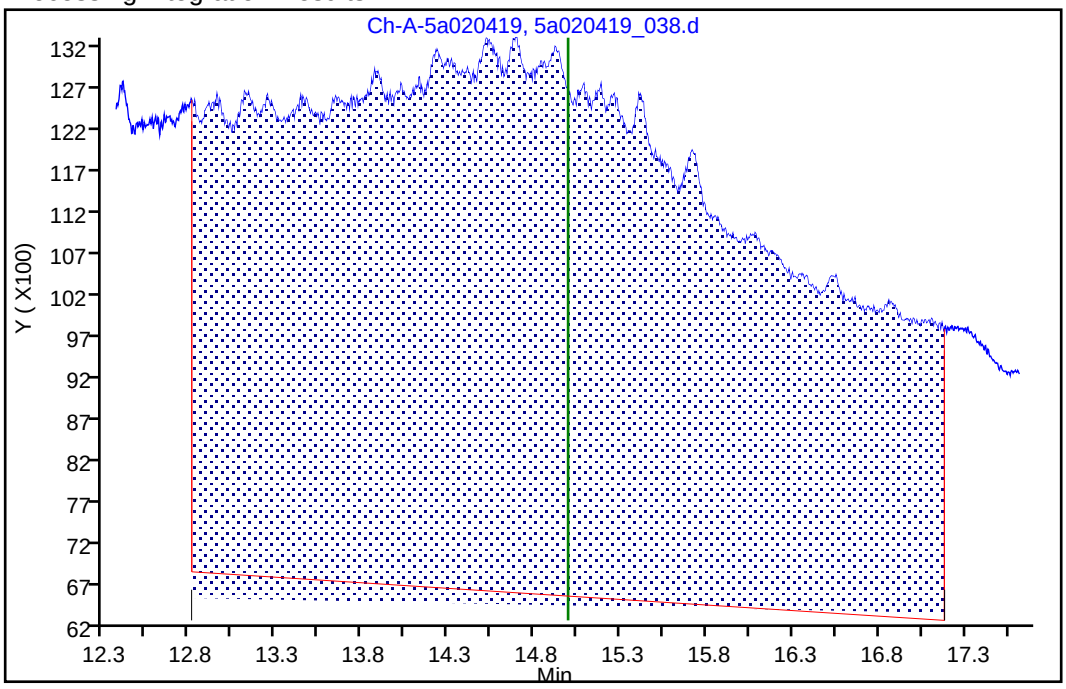
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Injection Date:	05-Feb-2019 03:37:28	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-2-D	Lab Sample ID:	720-90961-2		
Client ID:	DG-AK11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.995, CAS: STL00158

Signal: 1

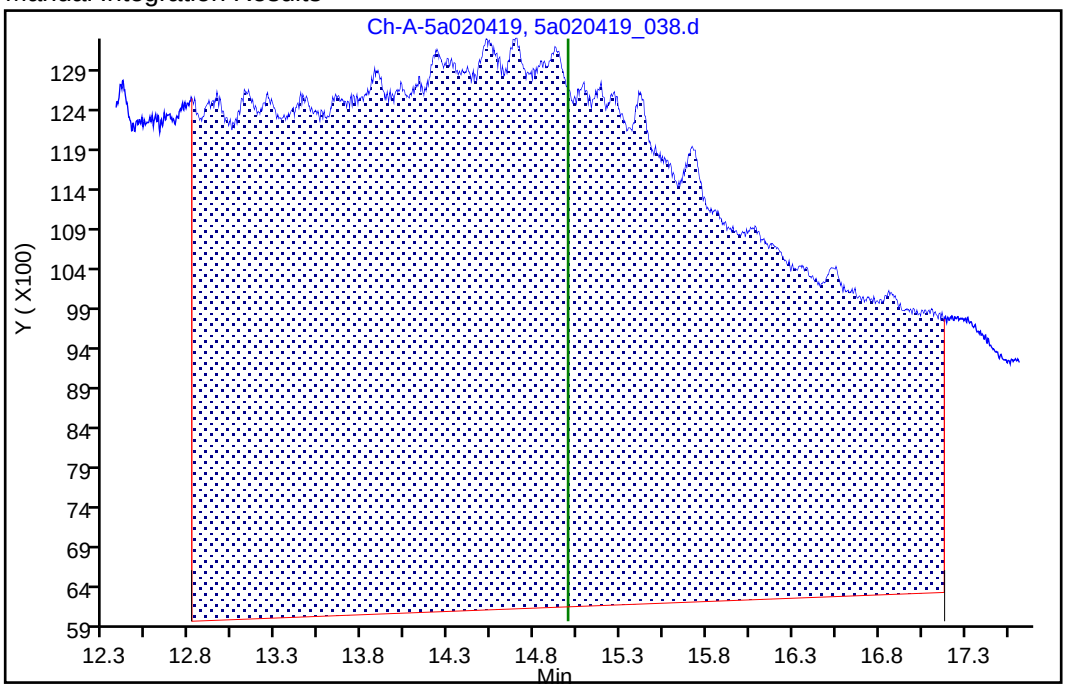
Processing Integration Results

RT: 15.00
Response: 6872922
Amount: 1128.1668



Manual Integration Results

RT: 15.00
Response: 7371585
Amount: 1210.0206



Reviewer: luj, 05-Feb-2019 12:32:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

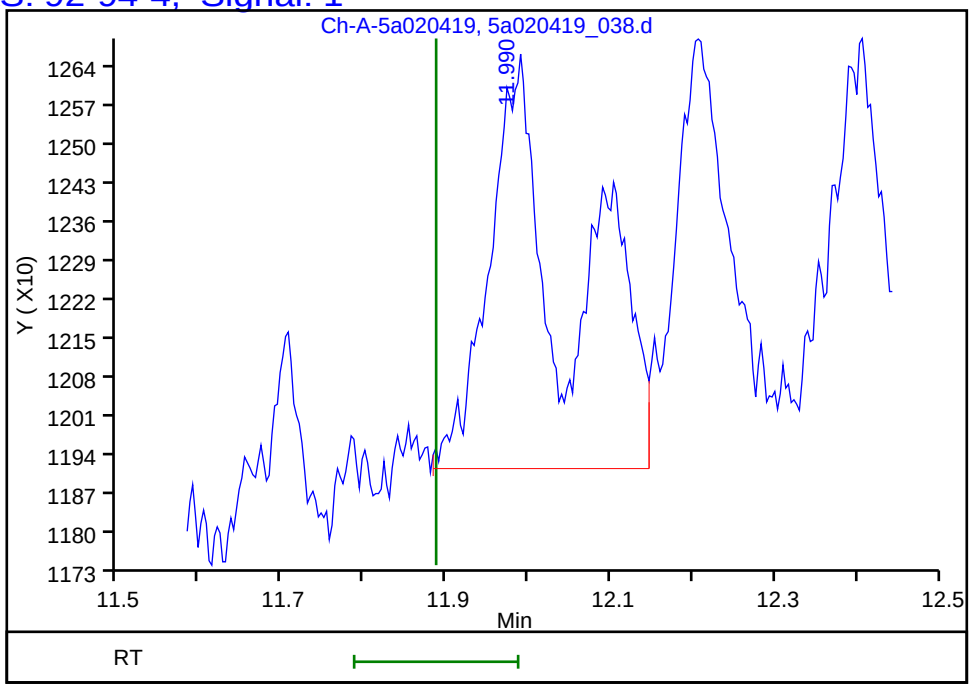
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_038.d

Injection Date:	05-Feb-2019 03:37:28	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-2-D	Lab Sample ID:	720-90961-2		
Client ID:	DG-AK11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.99
Response: 25689
Amount: 2.154229



Reviewer: luj, 05-Feb-2019 12:32:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_008.d
Lims ID: 720-90961-E-3-D
Client ID: DG-AM11S-0.5-1
Sample Type: Client
Inject. Date: 05-Feb-2019 12:20:05 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056440-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:50:48 Calib Date: 05-Feb-2019 09:42:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:50:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.511			ND	
23 n-Decane	3.776	3.756	0.020	1190	NC	
A 1 C9-C13	4.496	(2.511-6.481)		312304	NC	
A 21 Stoddard Solvent	4.496	(2.511-6.481)		312304	NC	
A 57 C10-C12	4.716	(3.756-5.677)		3638	0.3712	
24 Dodecane		5.677			ND	
A 3 C9 - C17	5.859	(2.511-9.207)		357274	29.5	
A 47 C9 - C18	6.155	(2.511-9.799)		384500	35.7	
A 60 C10-C16	6.162	(3.756-8.569)		36941	3.35	
A 15 Kerosene	6.424	(2.511-10.337)		399918	37.1	
A 25 C9-C19	6.424	(2.511-10.337)		399918	32.8	
26 C13	6.447	6.481	-0.034	5182	NC	
A 59 C12-C16	7.123	(5.677-8.569)		33303	3.40	
$ 27 n-Decanoic Acid (Surr)		7.132			ND	
A 62 C10-C20	7.314	(3.756-10.872)		212782	21.7	
A 28 C9-C24	7.655	(2.511-12.800)		719735	73.4	
A 29 C9-C25	7.873	(2.511-13.236)		719735	73.4	
A 54 C10-C23	8.051	(3.756-12.347)		417149	42.6	
A 4 C10-C24	8.278	(3.756-12.800)		417149	42.6	
A 16 C10-C25	8.496	(3.756-13.236)		417149	42.6	
45 Hexadecane	8.572	8.569	0.003	6567	NC	
A 14 C10-C26	8.706	(3.756-13.656)		908473	92.7	
A 67 C12-C22	8.776	(5.677-11.875)		413511	42.2	
A 12 Unknown Hydrocarbons	9.104	(3.756-14.453)		1697544	NC	M
A 32 C10-C28	9.104	(3.756-14.453)		1697544	173.2	M
A 5 Diesel	9.104	(3.756-14.453)		1697544	173.2	M
A 30 C13-C22	9.178	(6.481-11.875)		412613	42.1	
44 Heptadecane	9.210	9.207	0.003	12189	NC	
A 31 C12-C24	9.239	(5.677-12.800)		413511	42.2	
49 n-Octadecane	9.816	9.799	0.017	15418	NC	
A 9 Crude Oil Range Organics (	9.844	(2.511-17.177)		4876418	NC	
A 52 Mineral oil	9.844	(2.511-17.177)		4876418	424.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.844	(2.511-17.177)		4371743	NC	M
33 C19	10.344	10.337	0.007	37429	NC	
A 17 C10-C36	10.466	(3.756-17.177)		4069157	415.2	M
A 64 C13-C28	10.467	(6.481-14.453)		1693008	172.7	M
A 13 C9-C40	10.600	(2.511-18.689)		6065752	729.6	
A 68 Crude Oil Range Organics (	10.600	(2.511-18.689)		6065752	NC	
A 58 C16-C24	10.685	(8.569-12.800)		380208	38.8	
61 icosane		10.872			ND	
A 6 C10-C40	11.222	(3.756-18.689)		6060586	729.4	
$ 34 p-Terphenyl	11.860	11.864	-0.004	308410	25.9	M
35 n-Docosane		11.875			ND	
A 18 C12-C40	12.183	(5.677-18.689)		6046026	728.0	
36 Tricosane		12.347			ND	
A 66 C13-C40	12.585	(6.481-18.689)		6032860	726.4	
37 n-Tetracosane		12.800			ND	
A 2 C16-C36 ORO	12.873	(8.569-17.177)		4770554	628.6	
38 C25	13.249	13.236	0.013	491324	NC	
A 19 C16-C40	13.629	(8.569-18.689)		5959888	717.8	
46 n-Hexacosane	13.663	13.656	0.007	258850	NC	
A 20 C19-C36	13.757	(10.337-17.177)		4259506	493.6	
A 55 C23-C32	14.122	(12.347-15.897)		2986427	628.0	
39 n-Octacosane	14.303	14.453	-0.150	530221	NC	M
65 C29	14.925	14.831	0.094	309859	NC	
A 7 Motor Oil	14.988	(12.800-17.177)		3774597	619.6	
A 40 C24-C36	14.988	(12.800-17.177)		3774597	619.6	
A 50 C25-C36	15.206	(13.236-17.177)		3564070	616.0	
A 10 C22-C40	15.282	(11.875-18.689)		4921540	588.7	
A 41 C23-C40	15.518	(12.347-18.689)		5041562	614.7	
A 8 C24-C40	15.745	(12.800-18.689)		4882211	613.7	
56 Dotriacontane		15.897			ND	
A 51 C28-C40	16.571	(14.453-18.689)		3764558	606.8	
A 63 C29-C40	16.760	(14.831-18.689)		3377924	600.0	
42 n-Hexatriacontane		17.177			ND	
43 C40		18.689			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

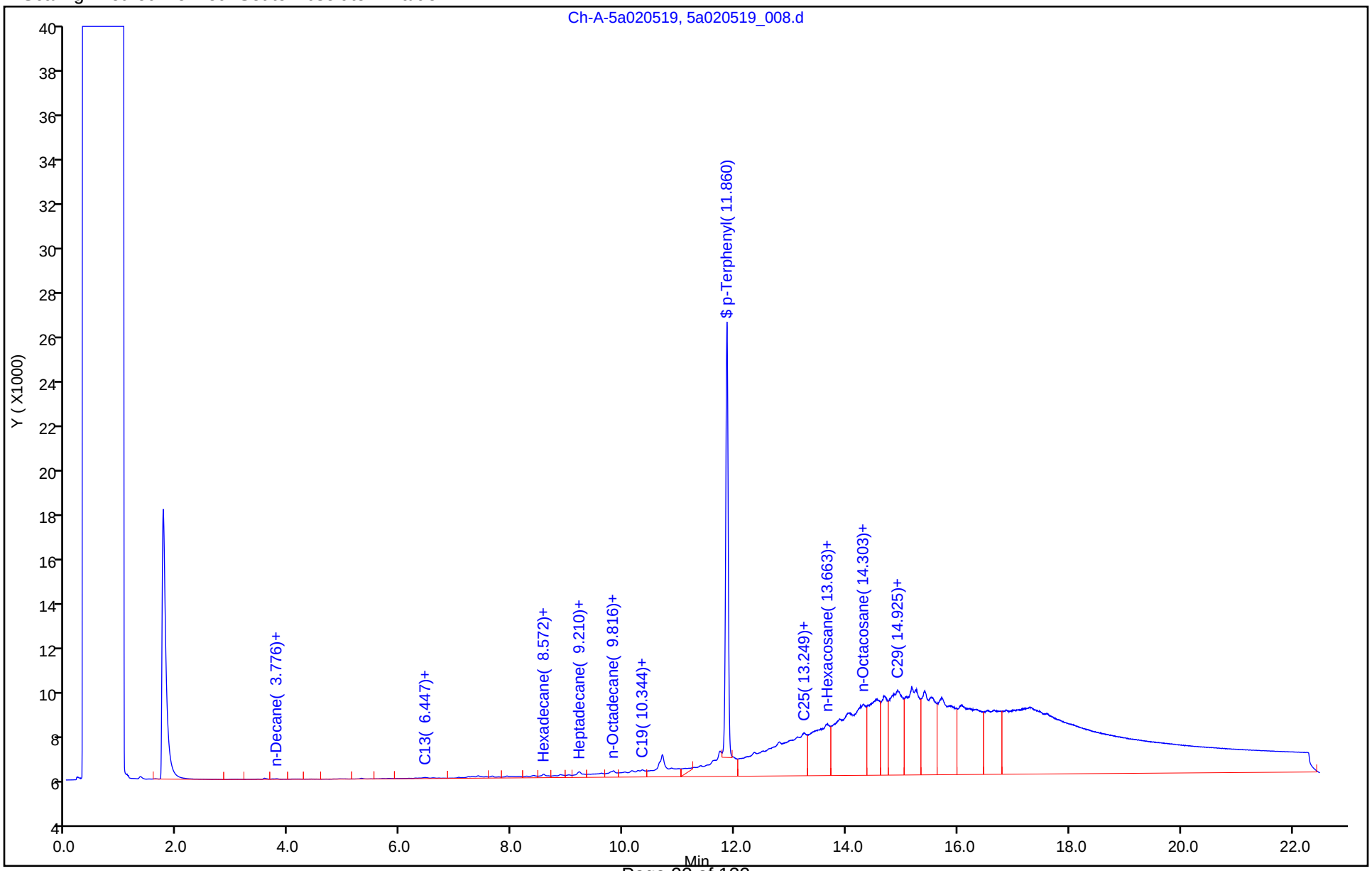
Report Date: 05-Feb-2019 12:50:49 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_008.d

Injection Date:	05-Feb-2019 12:20:05	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-3-D	Lab Sample ID:	720-90961-3	Worklist Smp#:	8
Client ID:	DG-AM11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_008.d				
Lims ID:	720-90961-E-3-D				
Client ID:	DG-AM11S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 12:20:05	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056440-008				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 12:50:48	Calib Date:	05-Feb-2019 09:42:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 12:50:48

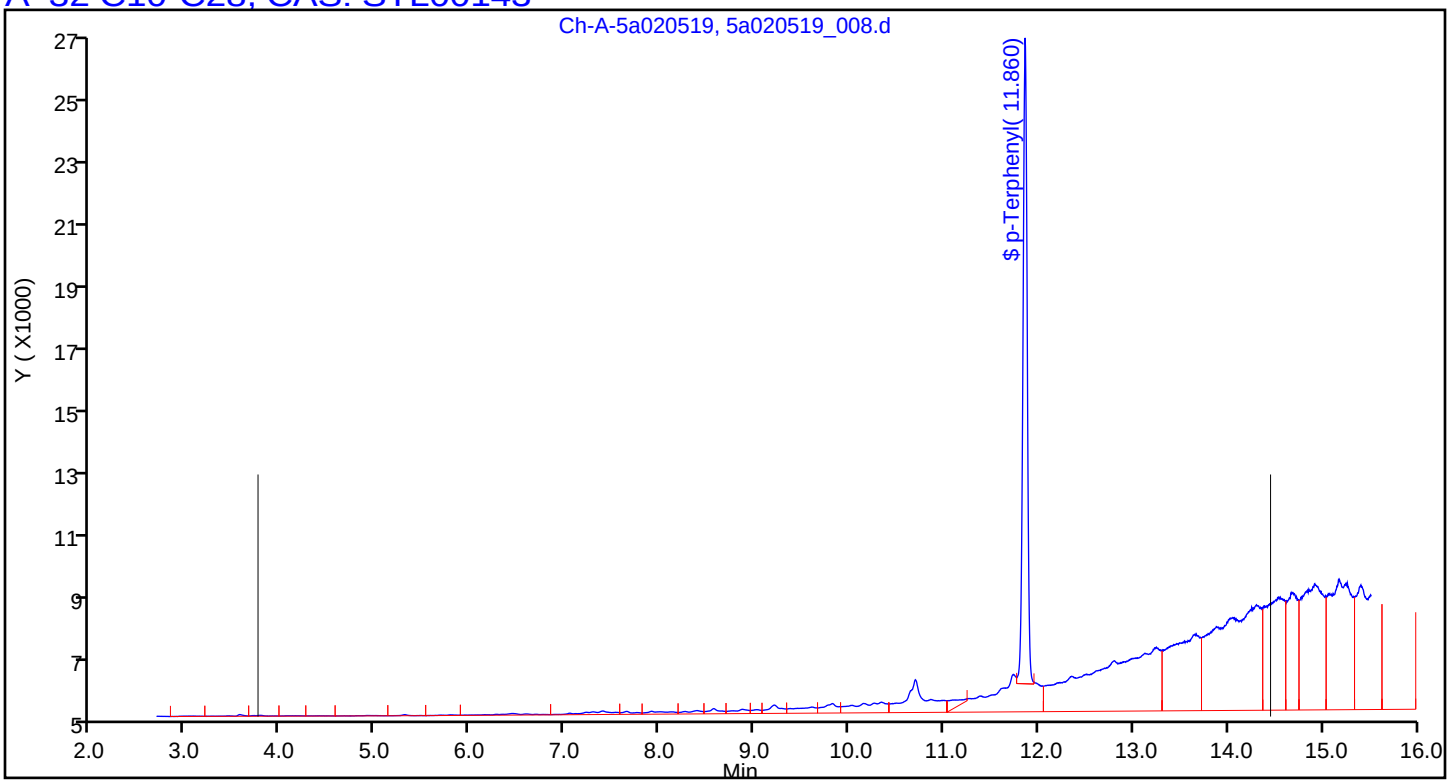
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.9	103.45

Report Date: 05-Feb-2019 12:50:49 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_008.d				
Injection Date:	05-Feb-2019 12:20:05	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-3-D	Lab Sample ID:	720-90961-3		
Client ID:	DG-AM11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

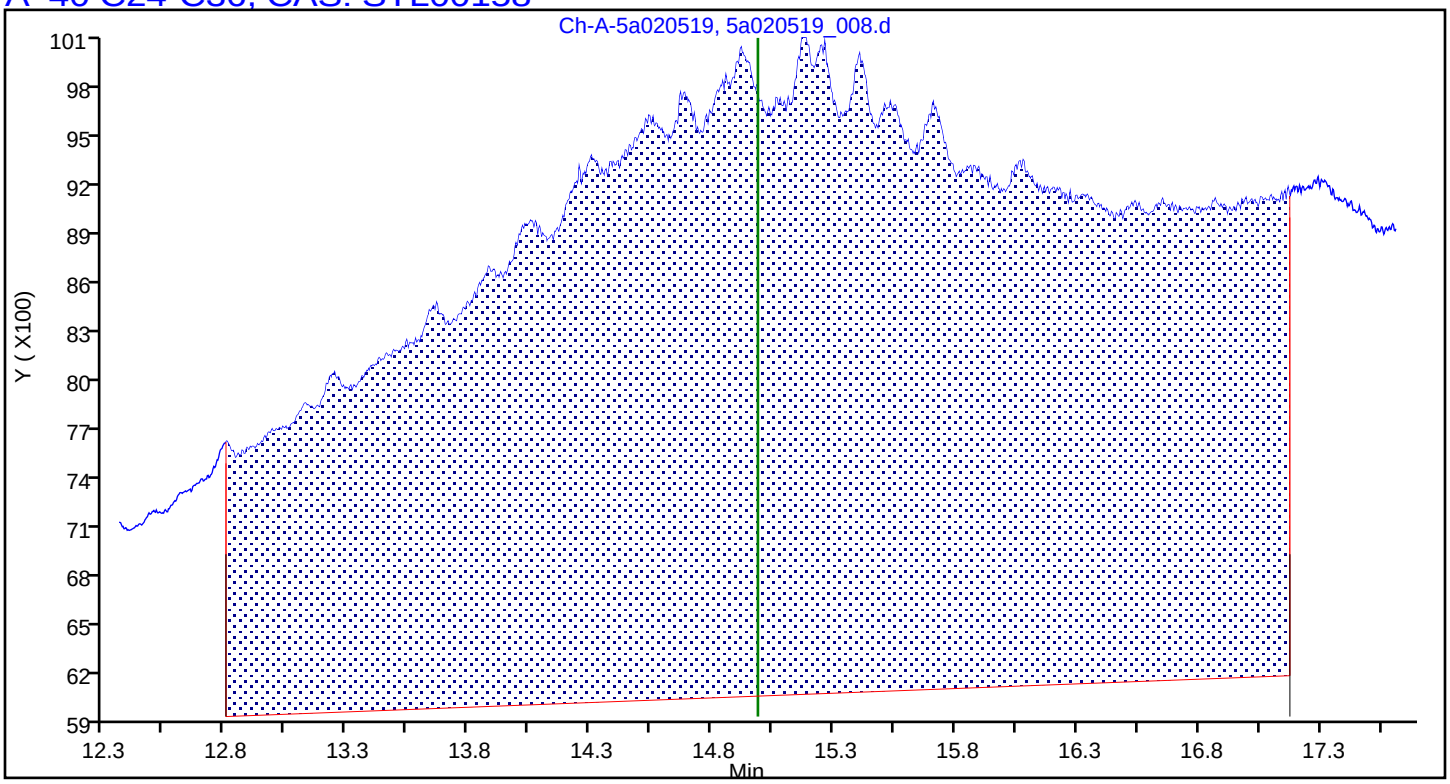


Report Date: 05-Feb-2019 12:50:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_008.d				
Injection Date:	05-Feb-2019 12:20:05	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-3-D	Lab Sample ID:	720-90961-3		
Client ID:	DG-AM11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

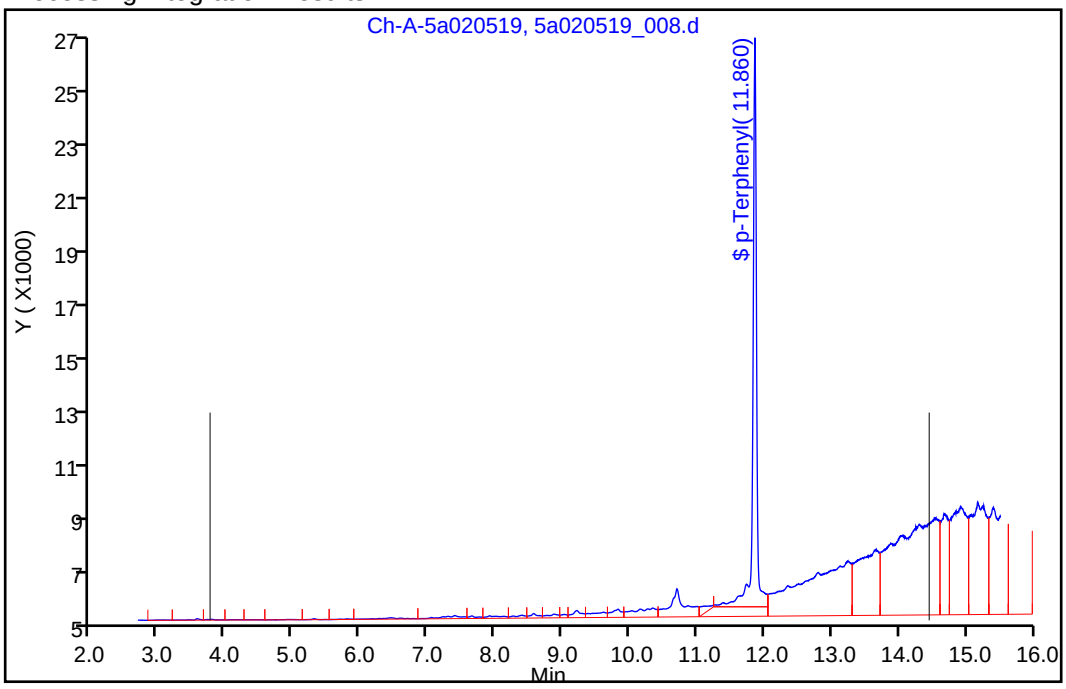
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Injection Date:	05-Feb-2019 12:20:05	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-3-D	Lab Sample ID:	720-90961-3		
Client ID:	DG-AM11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.104, CAS: STL00143

Signal: 1

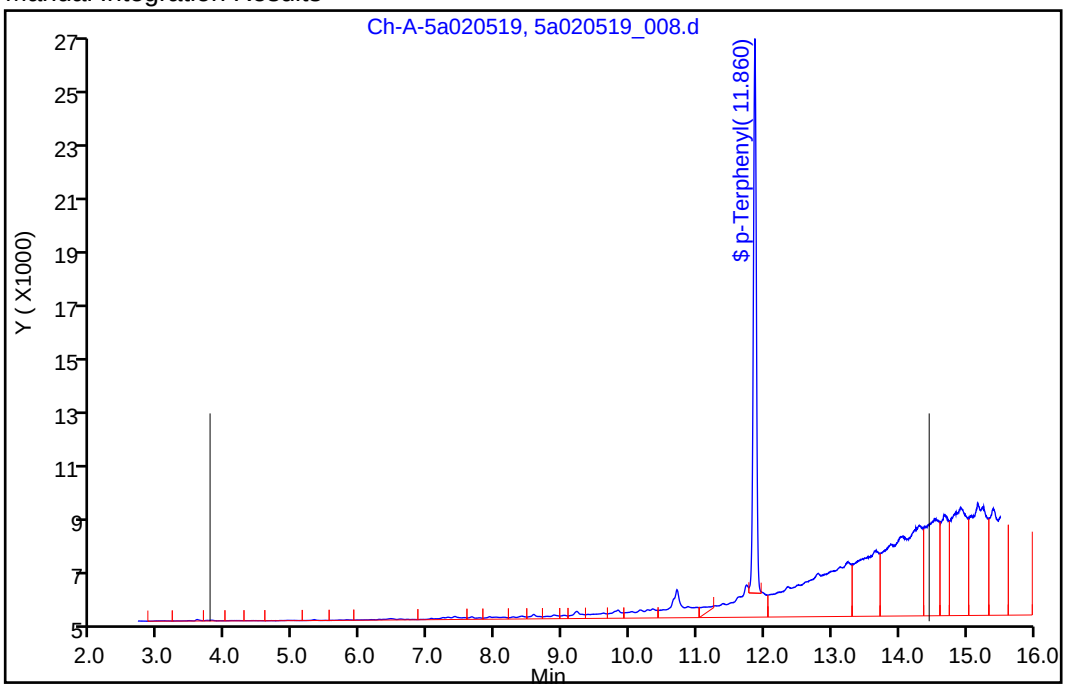
Processing Integration Results

RT: 9.10
Response: 1082636
Amount: 110.4616



Manual Integration Results

RT: 9.10
Response: 1697544
Amount: 173.2009



Reviewer: luj, 05-Feb-2019 12:50:31

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

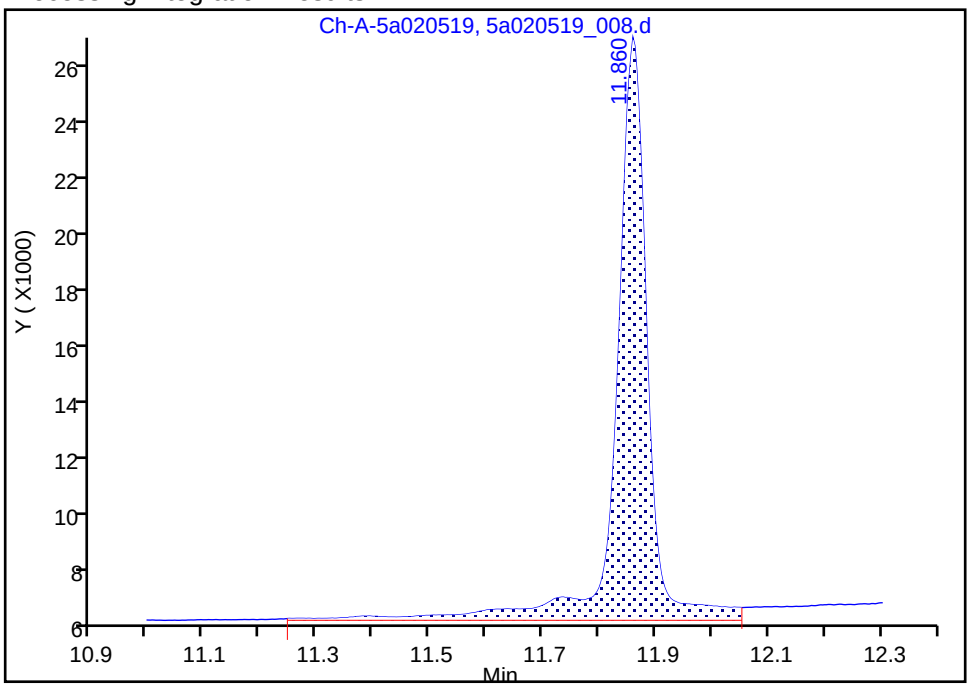
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_008.d				
Injection Date:	05-Feb-2019 12:20:05	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-3-D	Lab Sample ID:	720-90961-3		
Client ID:	DG-AM11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

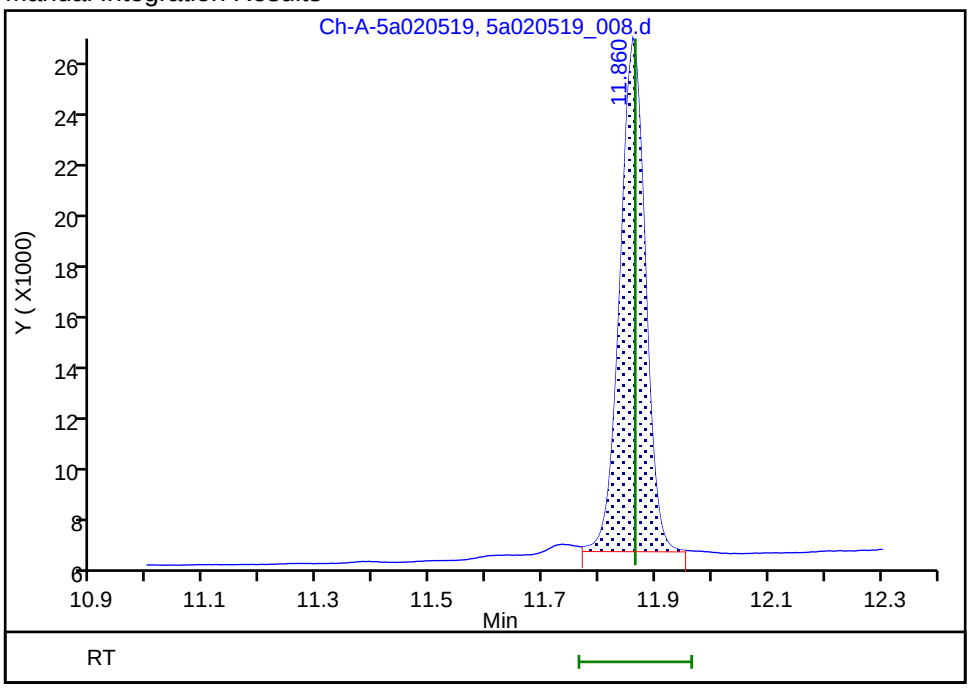
Processing Integration Results

RT: 11.86
Area: 393097
Amount: 32.964348
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 308410
Amount: 25.862661
Amount Units: mg/L



Reviewer: luj, 05-Feb-2019 12:50:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_039.d
Lims ID: 720-90961-E-4-D
Client ID: DG-AM11S-3.5-4
Sample Type: Client
Inject. Date: 05-Feb-2019 04:06:38 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 016 Name: 720-0056421-039
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:33:30 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:33:30

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.502			ND	
	23 n-Decane	3.783	3.751	0.032	284	NC	
A	1 C9-C13	4.492	(2.502-6.482)		3425	NC	
A	21 Stoddard Solvent	4.492	(2.502-6.482)		3425	NC	
A	57 C10-C12	4.714	(3.751-5.677)		1467	0.1497	
	24 Dodecane		5.677			ND	
A	3 C9 - C17	5.856	(2.502-9.211)		3425	0.2826	
A	47 C9 - C18	6.153	(2.502-9.805)		414720	38.5	
A	60 C10-C16	6.162	(3.751-8.573)		3077	0.2792	
A	15 Kerosene	6.422	(2.502-10.342)		746772	69.2	
A	25 C9-C19	6.422	(2.502-10.342)		746772	61.2	
	26 C13		6.482			ND	
A	59 C12-C16	7.125	(5.677-8.573)		1610	0.1643	
$	27 n-Decanoic Acid (Surr)		7.135			ND	
A	62 C10-C20	7.314	(3.751-10.878)		1100883	112.3	
A	28 C9-C24	7.654	(2.502-12.806)		2588902	264.1	
A	29 C9-C25	7.872	(2.502-13.242)		3257732	332.4	M
A	54 C10-C23	8.051	(3.751-12.352)		2062645	210.5	
A	4 C10-C24	8.278	(3.751-12.806)		2588554	264.1	
A	16 C10-C25	8.496	(3.751-13.242)		3257384	332.4	M
	45 Hexadecane		8.573			ND	
A	14 C10-C26	8.706	(3.751-13.662)		3257384	332.4	M
A	67 C12-C22	8.779	(5.677-11.881)		1829514	186.7	
A	12 Unknown Hydrocarbons	9.105	(3.751-14.460)		4797124	NC	M
A	32 C10-C28	9.105	(3.751-14.460)		4797124	489.5	M
A	5 Diesel	9.105	(3.751-14.460)		4797124	489.5	M
A	30 C13-C22	9.182	(6.482-11.881)		1827904	186.5	
	44 Heptadecane		9.211			ND	
A	31 C12-C24	9.241	(5.677-12.806)		2587087	264.0	
	49 n-Octadecane		9.805			ND	
A	9 Crude Oil Range Organics (	9.843	(2.502-17.185)		9450817	NC	
A	52 Mineral oil	9.843	(2.502-17.185)		9450817	822.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.843	(2.502-17.185)		8594104	NC	M
33 C19		10.342			ND	
A 17 C10-C36	10.468	(3.751-17.185)		8593756	876.8	M
A 64 C13-C28	10.471	(6.482-14.460)		4794047	489.1	M
A 13 C9-C40	10.603	(2.502-18.703)		10815342	1335.0	
A 68 Crude Oil Range Organics (	10.603	(2.502-18.703)		10815342	NC	
A 58 C16-C24	10.689	(8.573-12.806)		2585477	263.8	
61 icosane	10.941	10.878	0.062	131637	NC	
A 6 C10-C40	11.227	(3.751-18.703)		10813450	1335.0	
35 n-Docosane		11.881			ND	
$ 34 p-Terphenyl		11.887			ND	U
A 18 C12-C40	12.190	(5.677-18.703)		10802282	1333.9	
36 Tricosane		12.352			ND	
A 66 C13-C40	12.593	(6.482-18.703)		10789686	1332.5	
37 n-Tetracosane		12.806			ND	
A 2 C16-C36 ORO	12.879	(8.573-17.185)		9212839	1213.9	
38 C25		13.242			ND	
A 19 C16-C40	13.638	(8.573-18.703)		10577364	1306.4	
46 n-Hexacosane		13.662			ND	
A 20 C19-C36	13.763	(10.342-17.185)		8052856	933.3	
A 55 C23-C32	14.128	(12.352-15.904)		5312067	1117.1	
39 n-Octacosane	14.237	14.460	-0.223	1539740	NC	M
65 C29	14.919	14.838	0.081	578064	NC	
A 7 Motor Oil	14.995	(12.806-17.185)		6071455	996.6	
A 40 C24-C36	14.995	(12.806-17.185)		6071455	996.6	
A 50 C25-C36	15.213	(13.242-17.185)		5583182	965.0	
A 10 C22-C40	15.292	(11.881-18.703)		8263099	988.4	
A 41 C23-C40	15.528	(12.352-18.703)		7807708	952.0	
A 8 C24-C40	15.755	(12.806-18.703)		7338852	922.5	
56 Dotriacontane		15.904			ND	
A 51 C28-C40	16.582	(14.460-18.703)		5177450	870.9	
A 63 C29-C40	16.771	(14.838-18.703)		4490463	832.0	
42 n-Hexatriacontane	17.276	17.185	0.091	2798599	NC	
43 C40		18.703			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

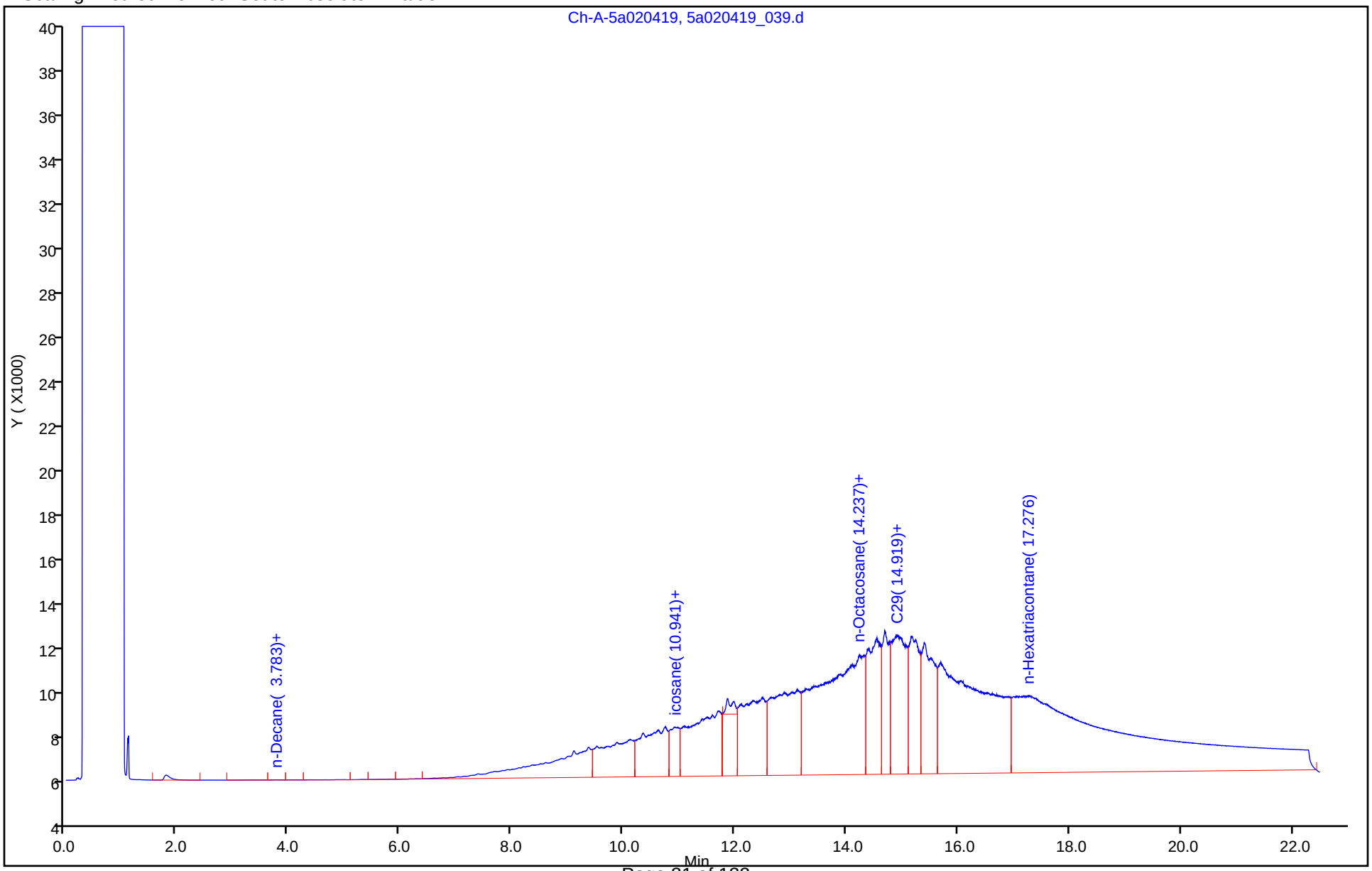
Report Date: 05-Feb-2019 12:33:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_039.d

Injection Date:	05-Feb-2019 04:06:38	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-4-D	Lab Sample ID:	720-90961-4	Worklist Smp#:	39
Client ID:	DG-AM11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

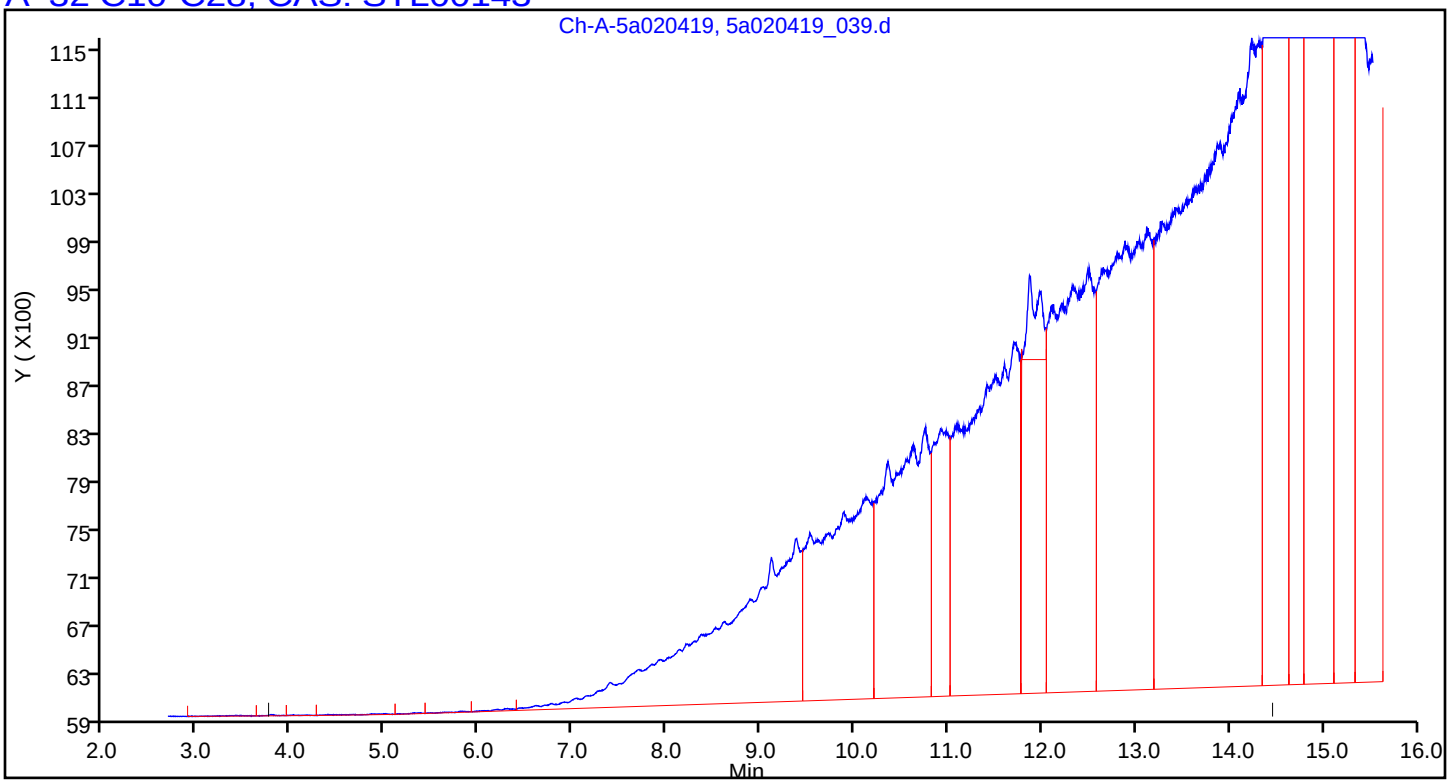


Report Date: 05-Feb-2019 12:33:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_039.d				
Injection Date:	05-Feb-2019 04:06:38	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-4-D	Lab Sample ID:	720-90961-4		
Client ID:	DG-AM11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

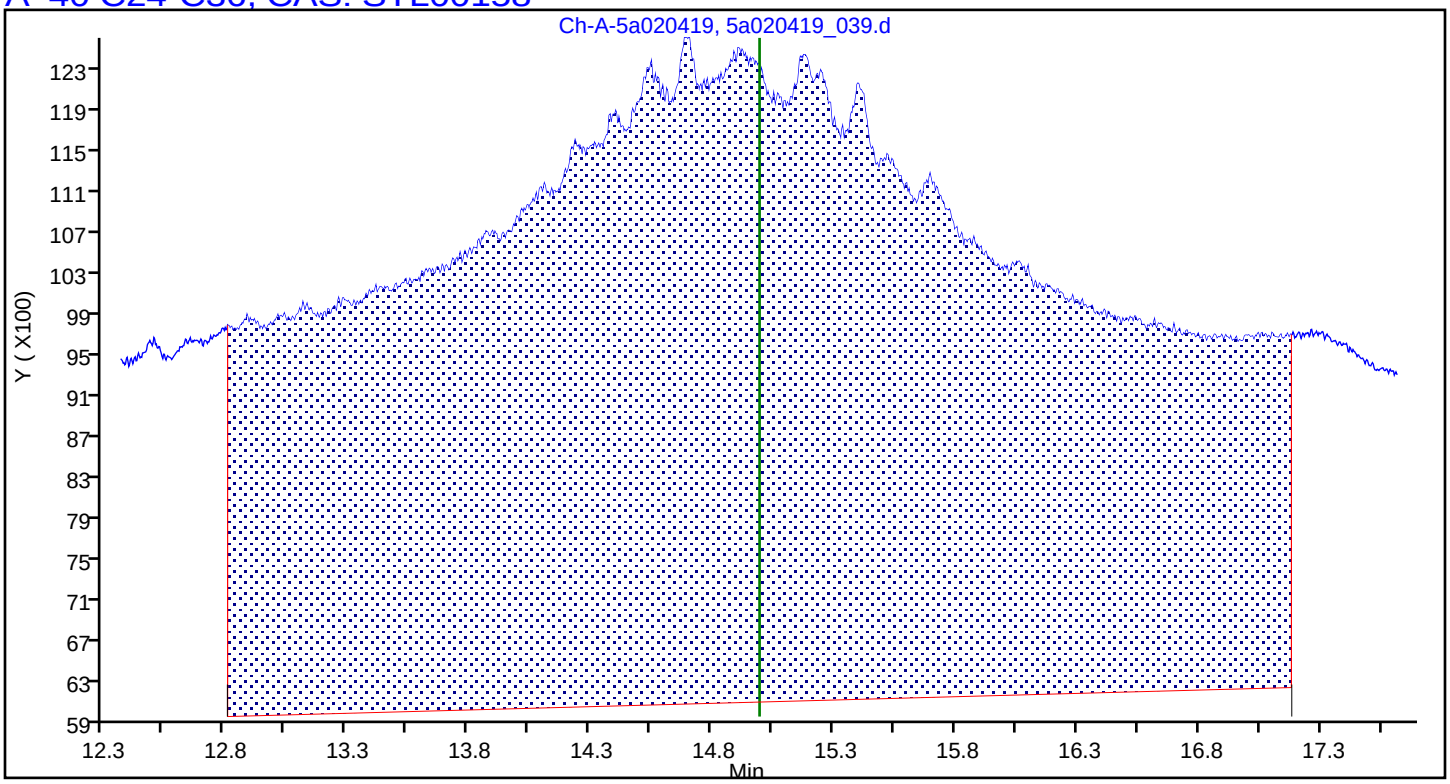


Report Date: 05-Feb-2019 12:33:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_039.d				
Injection Date:	05-Feb-2019 04:06:38	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-4-D	Lab Sample ID:	720-90961-4		
Client ID:	DG-AM11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

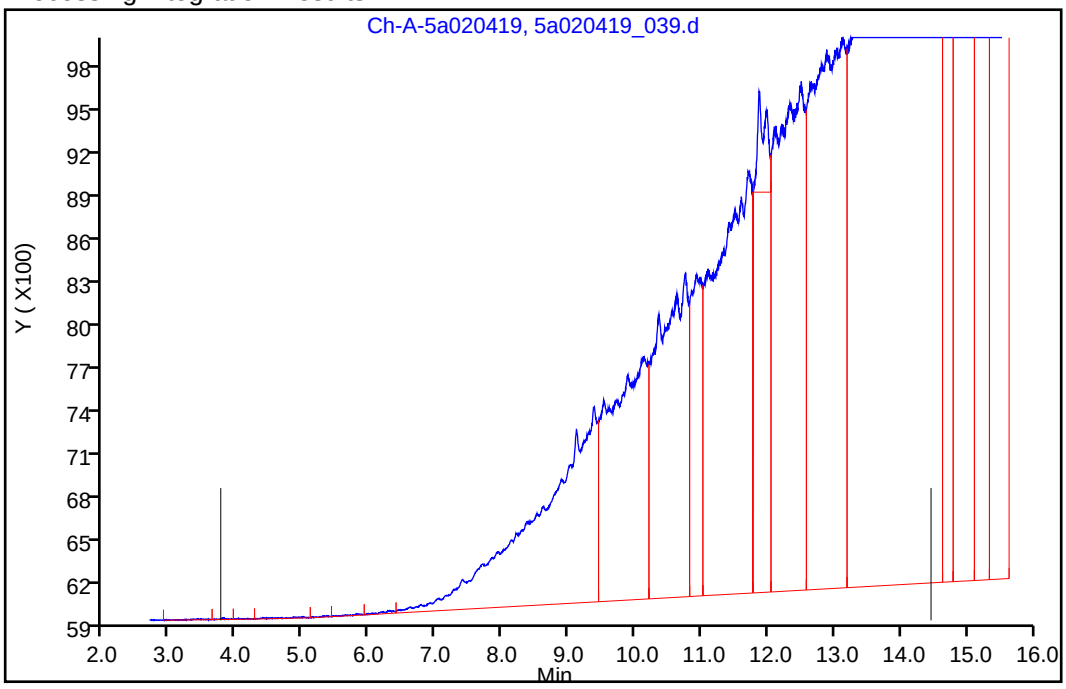
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Injection Date:	05-Feb-2019 04:06:38	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-4-D	Lab Sample ID:	720-90961-4		
Client ID:	DG-AM11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.105, CAS: STL00143

Signal: 1

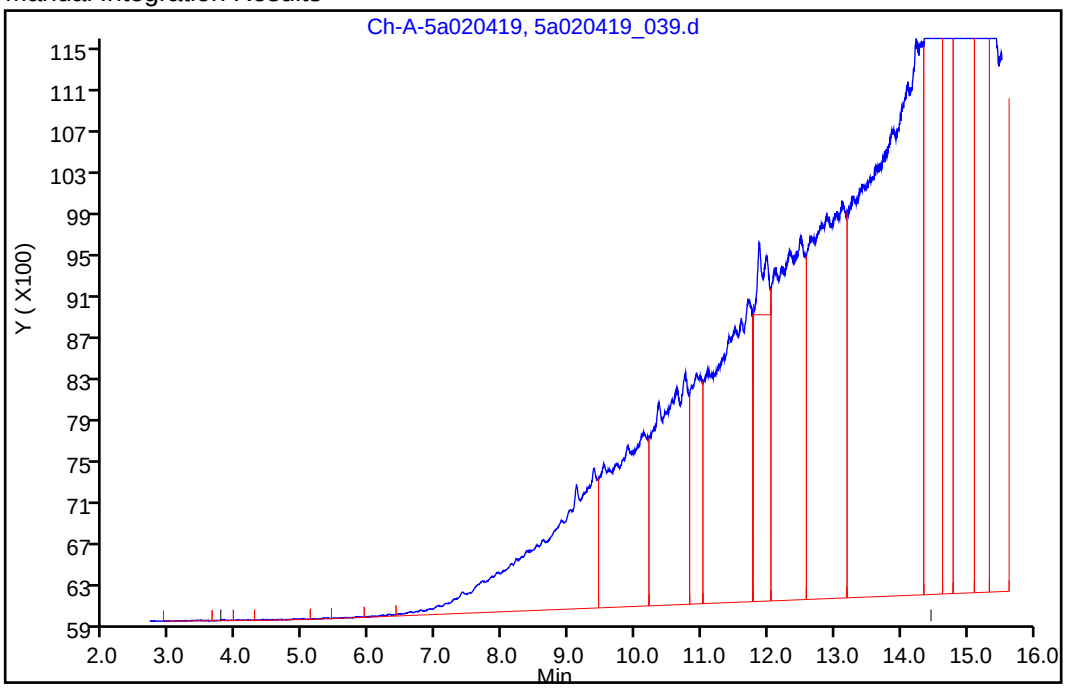
Processing Integration Results

RT: 9.11
Response: 3226650
Amount: 329.2160



Manual Integration Results

RT: 9.11
Response: 4797124
Amount: 489.4518



Reviewer: luj, 05-Feb-2019 12:33:15

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

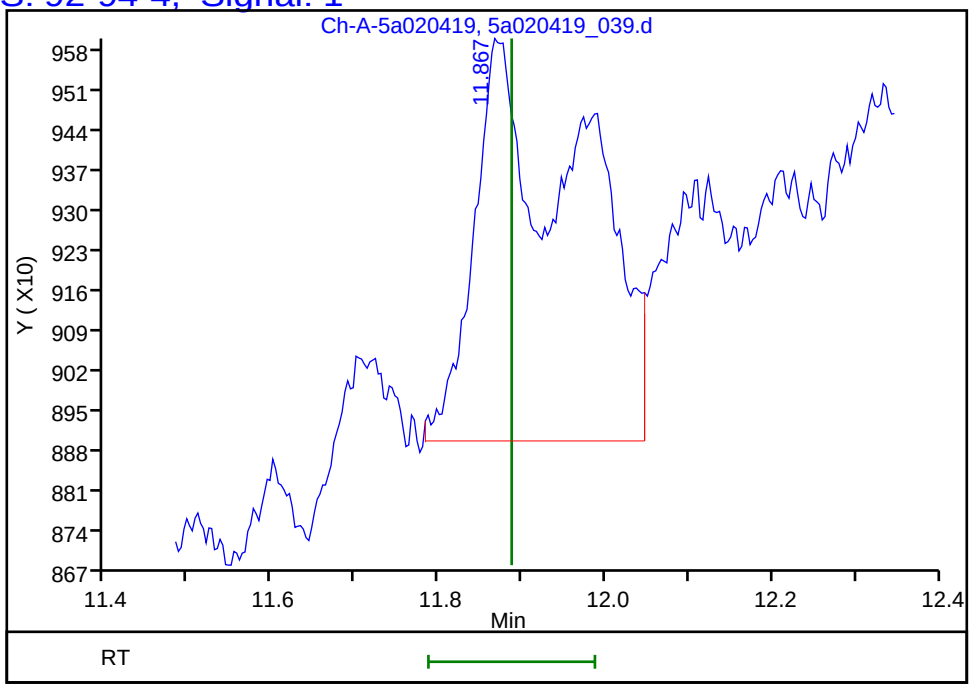
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_039.d

Injection Date:	05-Feb-2019 04:06:38	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-4-D	Lab Sample ID:	720-90961-4		
Client ID:	DG-AM11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.87
Response: 30734
Amount: 2.577293



Reviewer: luj, 05-Feb-2019 12:33:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_040.d
Lims ID: 720-90961-E-5-D
Client ID: DG-AO11S-0.5-1
Sample Type: Client
Inject. Date: 05-Feb-2019 04:36:01 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 016 Name: 720-0056421-040
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:34:26 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:34:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.522	2.502	0.020	133	NC	
23 n-Decane	3.789	3.751	0.038	361	NC	
A 1 C9-C13	4.492	(2.502-6.482)		9101	NC	M
A 21 Stoddard Solvent	4.492	(2.502-6.482)		9101	NC	M
A 57 C10-C12	4.714	(3.751-5.677)		3965	0.4046	M
24 Dodecane		5.677			ND	
A 3 C9 - C17	5.856	(2.502-9.211)		32116	2.65	M
A 47 C9 - C18	6.153	(2.502-9.805)		32116	2.98	M
A 60 C10-C16	6.162	(3.751-8.573)		31404	2.85	M
A 15 Kerosene	6.422	(2.502-10.342)		32116	2.98	M
A 25 C9-C19	6.422	(2.502-10.342)		32116	2.63	M
26 C13	6.450	6.482	-0.032	4424	NC	M
A 59 C12-C16	7.125	(5.677-8.573)		27439	2.80	M
$ 27 n-Decanoic Acid (Surr)		7.135			ND	
A 62 C10-C20	7.314	(3.751-10.878)		364553	37.2	M
A 28 C9-C24	7.654	(2.502-12.806)		917455	93.6	M
A 29 C9-C25	7.872	(2.502-13.242)		917455	93.6	M
A 54 C10-C23	8.051	(3.751-12.352)		916743	93.5	M
A 4 C10-C24	8.278	(3.751-12.806)		916743	93.5	M
A 16 C10-C25	8.496	(3.751-13.242)		916743	93.5	M
45 Hexadecane		8.573			ND	
A 14 C10-C26	8.706	(3.751-13.662)		916743	93.5	M
A 67 C12-C22	8.779	(5.677-11.881)		788093	80.4	M
A 12 Unknown Hydrocarbons	9.105	(3.751-14.460)		2829804	NC	M
A 32 C10-C28	9.105	(3.751-14.460)		2829804	288.7	M
A 5 Diesel	9.105	(3.751-14.460)		2829804	288.7	M
A 30 C13-C22	9.182	(6.482-11.881)		788093	80.4	M
44 Heptadecane		9.211			ND	
A 31 C12-C24	9.241	(5.677-12.806)		912778	93.1	M
49 n-Octadecane		9.805			ND	
A 9 Crude Oil Range Organics (	9.843	(2.502-17.185)		6650285	NC	
A 52 Mineral oil	9.843	(2.502-17.185)		6650285	579.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.843	(2.502-17.185)		8665181	NC	M
33 C19		10.342			ND	
A 17 C10-C36	10.468	(3.751-17.185)		8664469	884.0	M
A 64 C13-C28	10.471	(6.482-14.460)		2825839	288.3	M
A 13 C9-C40	10.603	(2.502-18.703)		7997025	975.8	
A 68 Crude Oil Range Organics (	10.603	(2.502-18.703)		7997025	NC	
A 58 C16-C24	10.689	(8.573-12.806)		885339	90.3	M
61 icosane		10.878			ND	
A 6 C10-C40	11.227	(3.751-18.703)		7994252	975.8	
35 n-Docosane		11.881			ND	
$ 34 p-Terphenyl		11.887			ND	U
A 18 C12-C40	12.190	(5.677-18.703)		7977772	974.1	
36 Tricosane		12.352			ND	
A 66 C13-C40	12.593	(6.482-18.703)		7960898	972.1	
37 n-Tetracosane		12.806			ND	
A 2 C16-C36 ORO	12.879	(8.573-17.185)		6516843	858.7	
38 C25		13.242			ND	
A 19 C16-C40	13.638	(8.573-18.703)		7863583	960.4	
46 n-Hexacosane		13.662			ND	
A 20 C19-C36	13.763	(10.342-17.185)		5784478	670.4	
A 55 C23-C32	14.128	(12.352-15.904)		3868495	813.5	
39 n-Octacosane		14.460			ND	
65 C29	14.367	14.838	-0.471	1913061	NC	M
A 7 Motor Oil	14.995	(12.806-17.185)		4641077	761.8	
A 40 C24-C36	14.995	(12.806-17.185)		4641077	761.8	
A 50 C25-C36	15.213	(13.242-17.185)		4304309	744.0	
A 10 C22-C40	15.292	(11.881-18.703)		6467066	773.6	
A 41 C23-C40	15.528	(12.352-18.703)		6188653	754.6	
A 8 C24-C40	15.755	(12.806-18.703)		5883621	739.6	
56 Dotriacontane		15.904			ND	
A 51 C28-C40	16.582	(14.460-18.703)		4341516	712.3	
A 63 C29-C40	16.771	(14.838-18.703)		3866860	699.9	
42 n-Hexatriacontane		17.185			ND	
43 C40		18.703			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated

Review Flags
- M - Manually Integrated
- U - Marked Undetected

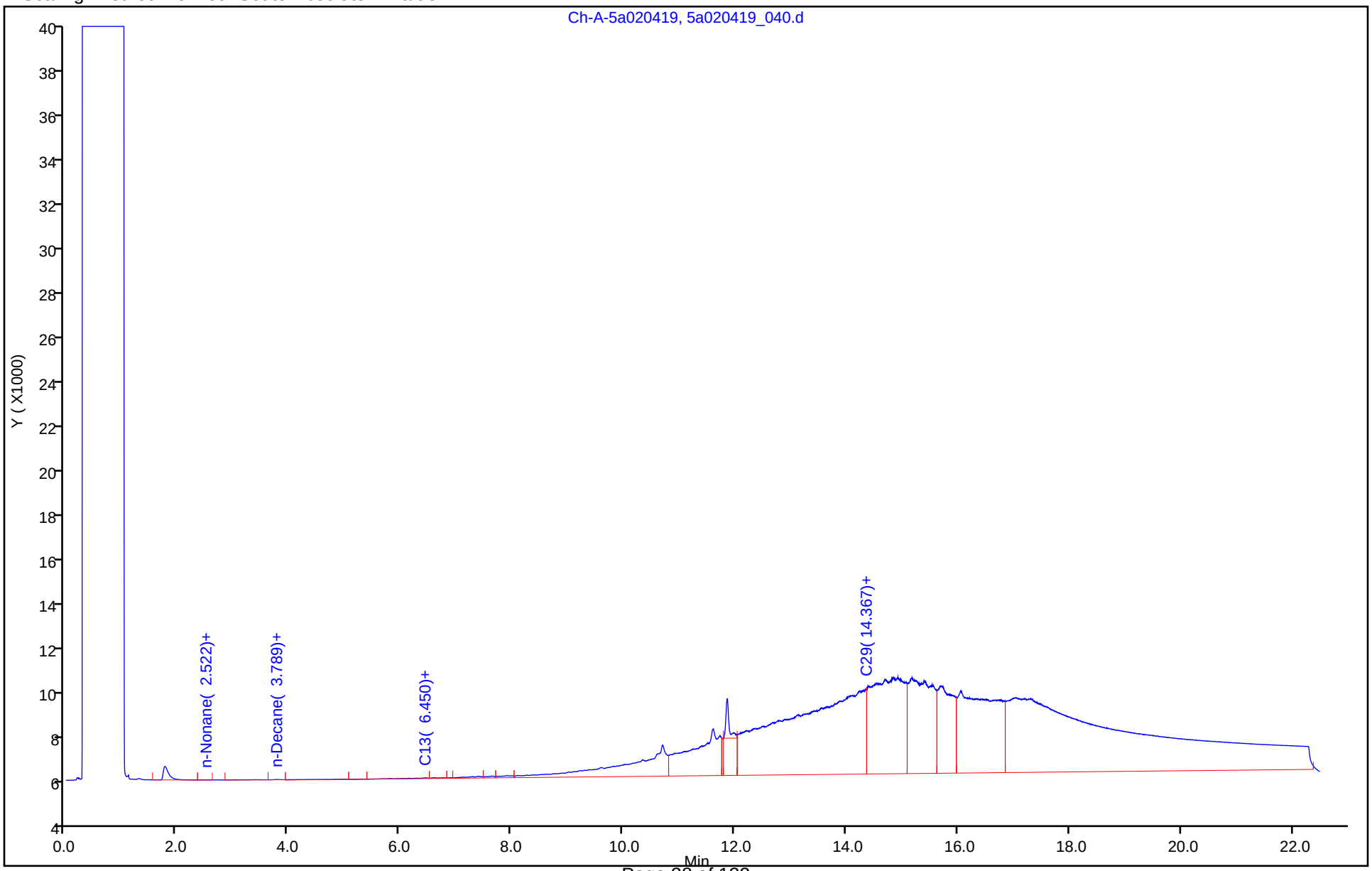
Report Date: 05-Feb-2019 12:34:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_040.d

Injection Date:	05-Feb-2019 04:36:01	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-5-D	Lab Sample ID:	720-90961-5	Worklist Smp#:	40
Client ID:	DG-AO11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

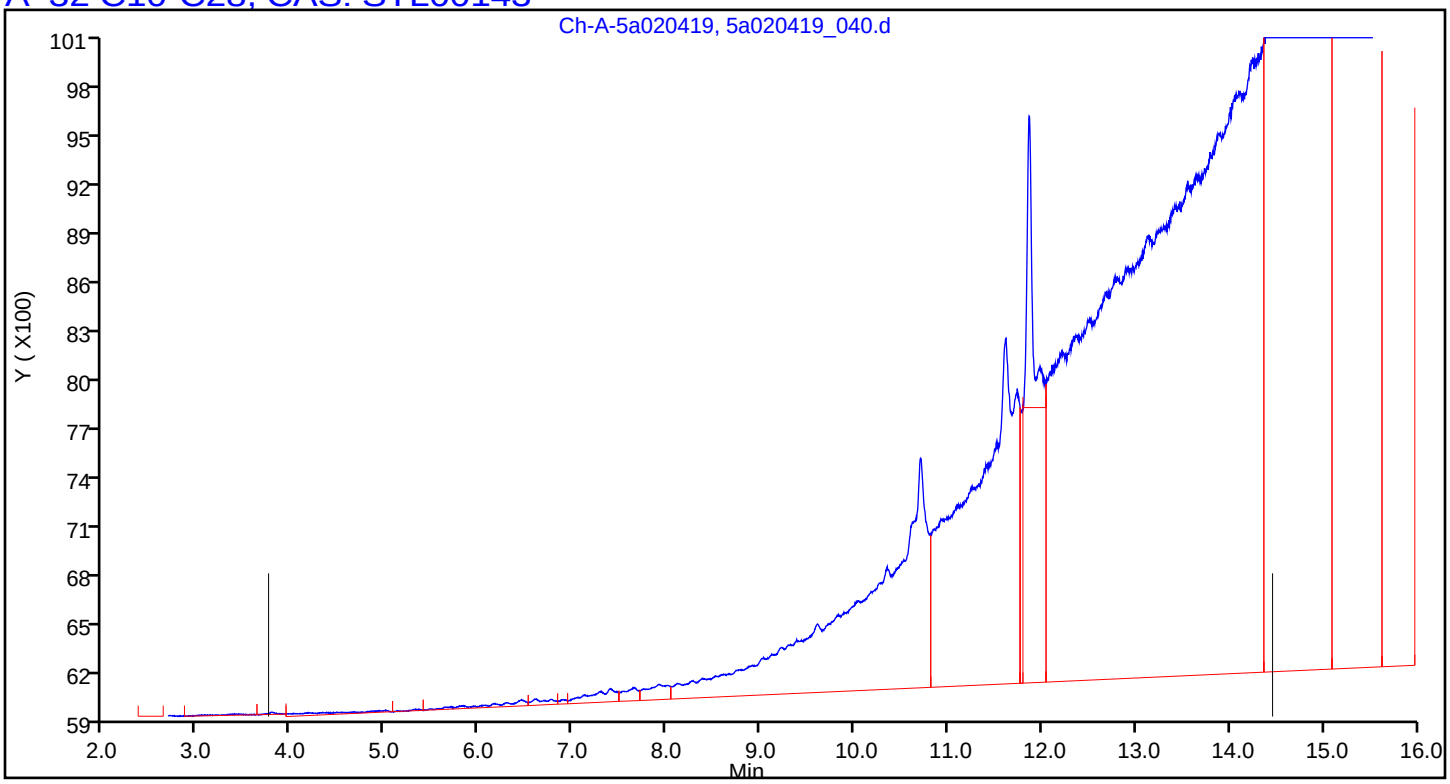


Report Date: 05-Feb-2019 12:34:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_040.d				
Injection Date:	05-Feb-2019 04:36:01	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-5-D	Lab Sample ID:	720-90961-5		
Client ID:	DG-AO11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

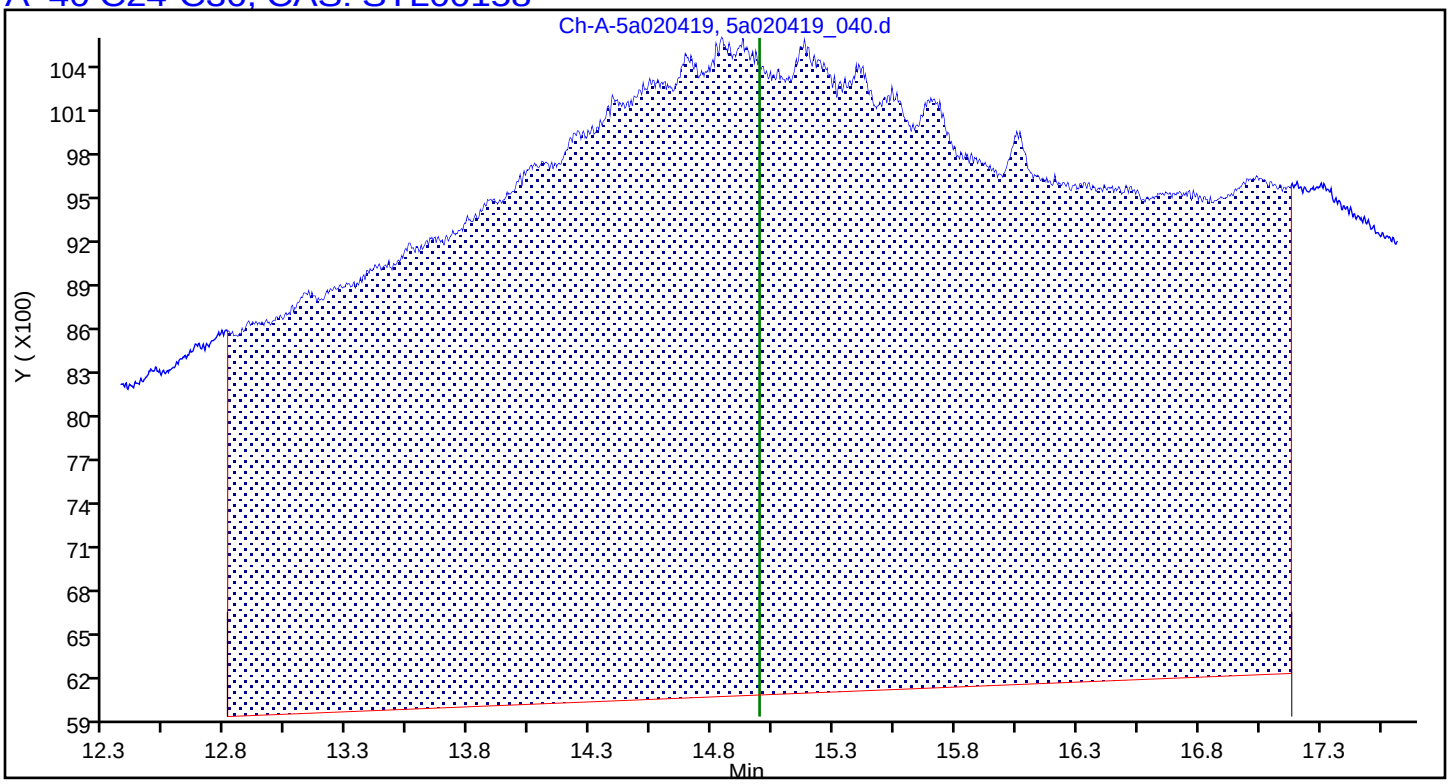


Report Date: 05-Feb-2019 12:34:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_040.d				
Injection Date:	05-Feb-2019 04:36:01	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-5-D	Lab Sample ID:	720-90961-5		
Client ID:	DG-AO11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

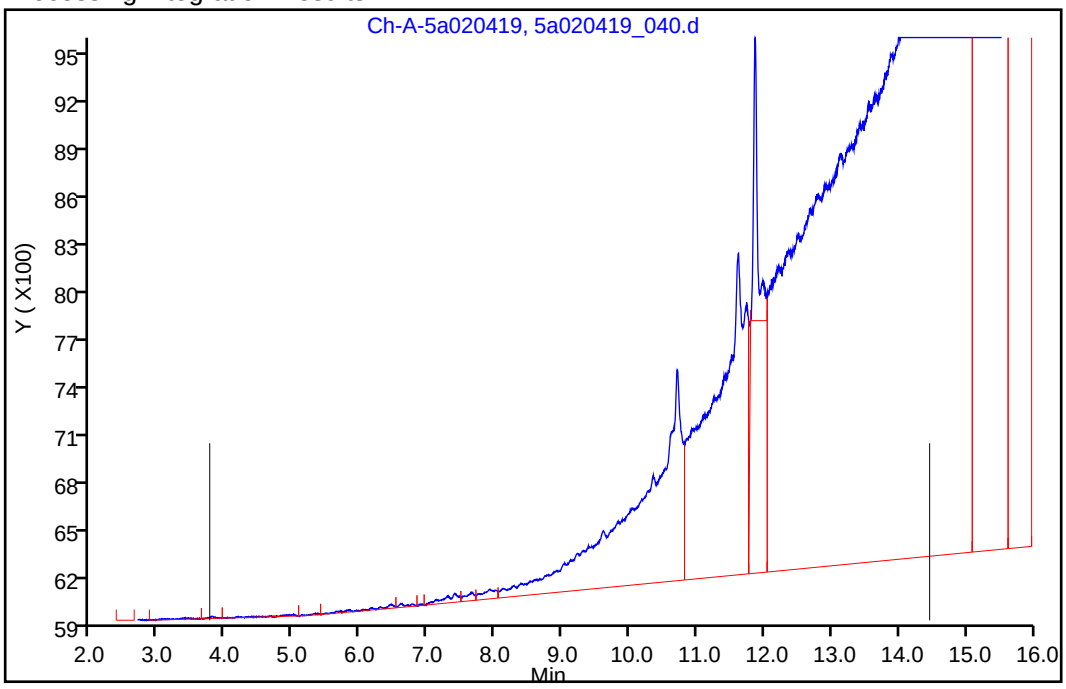
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_040.d				
Injection Date:	05-Feb-2019 04:36:01	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-5-D	Lab Sample ID:	720-90961-5		
Client ID:	DG-AO11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.105, CAS: STL00143

Signal: 1

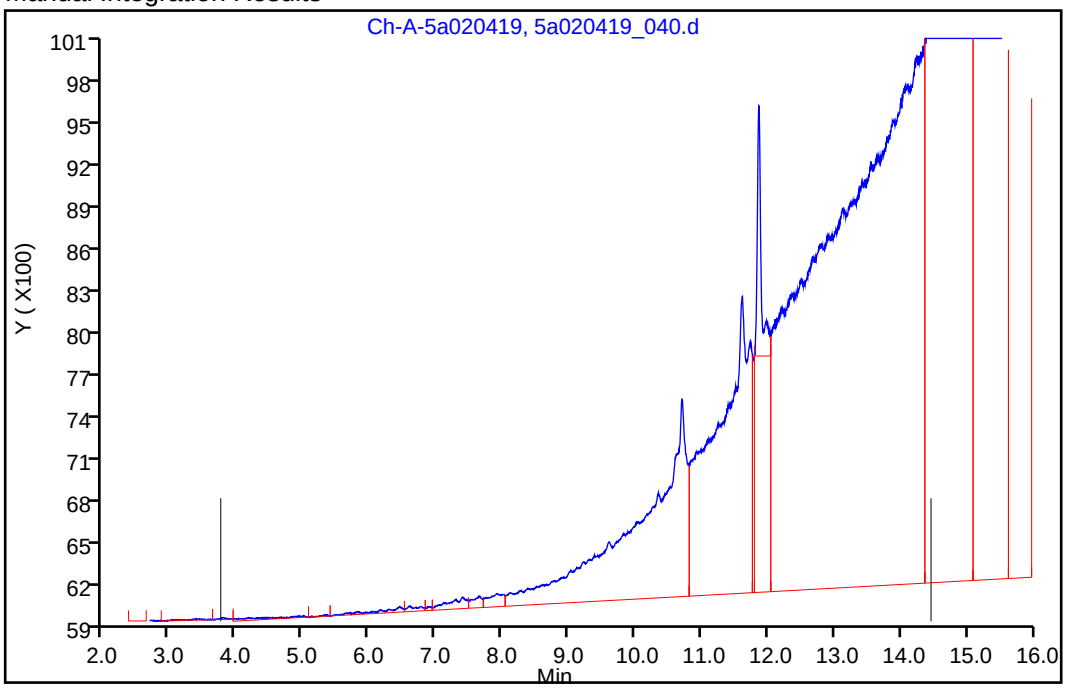
Processing Integration Results

RT: 9.11
Response: 791047
Amount: 80.710737



Manual Integration Results

RT: 9.11
Response: 2829804
Amount: 288.7257



Reviewer: luj, 05-Feb-2019 12:33:54

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

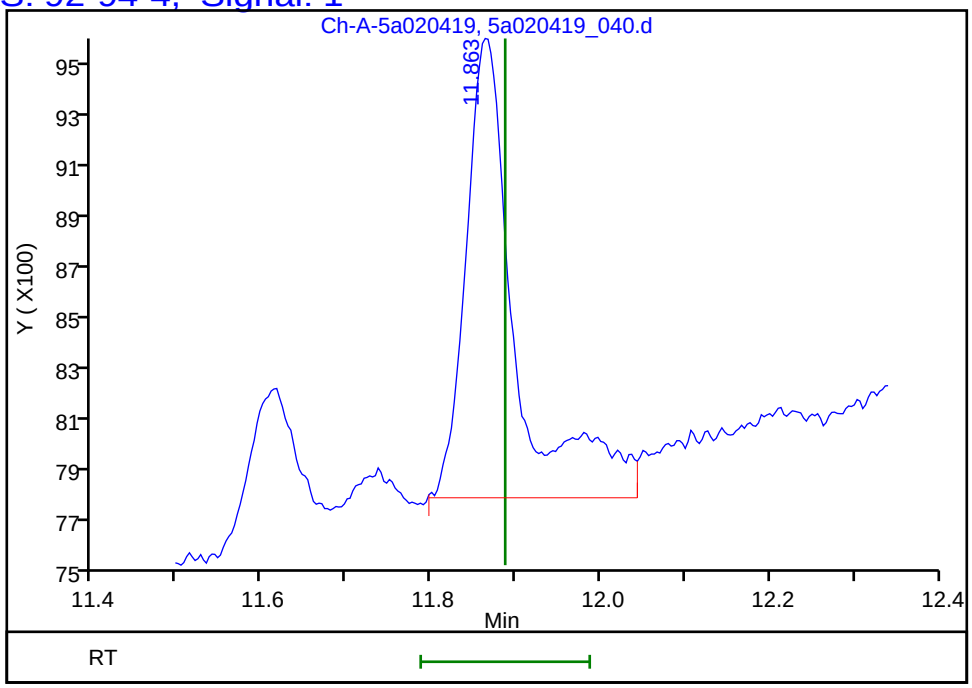
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_040.d

Injection Date:	05-Feb-2019 04:36:01	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-5-D	Lab Sample ID:	720-90961-5		
Client ID:	DG-AO11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 36567
Amount: 3.066437



Reviewer: luj, 05-Feb-2019 12:34:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_030.d
Lims ID: 720-90961-E-6-D
Client ID: DG-AO11S-3.5-4
Sample Type: Client
Inject. Date: 04-Feb-2019 23:42:51 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: #: 009 Name: 720-0056421-030
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:26:42 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:26:42

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.497	2.502	-0.005	453	NC	
23 n-Decane		3.751			ND	
A 1 C9-C13	4.492	(2.502-6.482)		500913	NC	
A 21 Stoddard Solvent	4.492	(2.502-6.482)		500913	NC	
A 57 C10-C12	4.714	(3.751-5.677)		219348	22.4	
24 Dodecane	5.647	5.677	-0.030	40857	NC	
A 3 C9 - C17	5.856	(2.502-9.211)		1936233	159.7	
A 47 C9 - C18	6.153	(2.502-9.805)		2675009	248.5	
A 60 C10-C16	6.162	(3.751-8.573)		1603682	145.5	
A 15 Kerosene	6.422	(2.502-10.342)		3289364	305.0	
A 25 C9-C19	6.422	(2.502-10.342)		3289364	269.5	
26 C13		6.482			ND	
A 59 C12-C16	7.125	(5.677-8.573)		1425191	145.4	
$ 27 n-Decanoic Acid (Surr)		7.135			ND	U
A 62 C10-C20	7.314	(3.751-10.878)		3853563	393.2	
A 28 C9-C24	7.654	(2.502-12.806)		6070503	619.4	
A 29 C9-C25	7.872	(2.502-13.242)		7038785	718.2	
A 54 C10-C23	8.051	(3.751-12.352)		5728503	584.5	
A 4 C10-C24	8.278	(3.751-12.806)		6061963	618.5	
A 16 C10-C25	8.496	(3.751-13.242)		7030245	717.3	
45 Hexadecane	8.620	8.573	0.047	210141	NC	
A 14 C10-C26	8.706	(3.751-13.662)		7315903	746.4	
A 67 C12-C22	8.779	(5.677-11.881)		4640033	473.4	
A 12 Unknown Hydrocarbons	9.105	(3.751-14.460)		8511731	NC	
A 32 C10-C28	9.105	(3.751-14.460)		8511731	868.5	
A 5 Diesel	9.105	(3.751-14.460)		8511731	868.5	
A 30 C13-C22	9.182	(6.482-11.881)		4433813	452.4	
44 Heptadecane		9.211			ND	
A 31 C12-C24	9.241	(5.677-12.806)		5883472	600.3	
49 n-Octadecane		9.805			ND	
A 9 Crude Oil Range Organics (	9.843	(2.502-17.185)		12247169	NC	
A 52 Mineral oil	9.843	(2.502-17.185)		12247169	1066.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.843	(2.502-17.185)		13365615	NC	
33 C19		10.342			ND	
A 17 C10-C36	10.468	(3.751-17.185)		13357075	1362.8	
A 64 C13-C28	10.471	(6.482-14.460)		8127020	829.2	
A 13 C9-C40	10.603	(2.502-18.703)		13197349	1638.6	
A 68 Crude Oil Range Organics (	10.603	(2.502-18.703)		13197349	NC	
A 58 C16-C24	10.689	(8.573-12.806)		4458281	454.9	
61 icosane		10.878			ND	
A 6 C10-C40	11.227	(3.751-18.703)		13182734	1636.9	
35 n-Docosane		11.881			ND	
$ 34 p-Terphenyl		11.887			ND	U
A 18 C12-C40	12.190	(5.677-18.703)		12958349	1608.6	
36 Tricosane		12.352			ND	
A 66 C13-C40	12.593	(6.482-18.703)		12658177	1570.6	
37 n-Tetracosane	12.814	12.806	0.008	597323	NC	
A 2 C16-C36 ORO	12.879	(8.573-17.185)		10419465	1372.9	
38 C25		13.242			ND	
A 19 C16-C40	13.638	(8.573-18.703)		11369645	1407.3	
46 n-Hexacosane		13.662			ND	
A 20 C19-C36	13.763	(10.342-17.185)		7105224	823.4	
A 55 C23-C32	14.128	(12.352-15.904)		5051893	1062.4	
39 n-Octacosane	14.537	14.460	0.077	299724	NC	
65 C29	14.924	14.838	0.086	1254437	NC	
A 7 Motor Oil	14.995	(12.806-17.185)		4643271	762.2	
A 40 C24-C36	14.995	(12.806-17.185)		5410647	888.1	M
A 50 C25-C36	15.213	(13.242-17.185)		4173893	721.4	
A 10 C22-C40	15.292	(11.881-18.703)		6219132	743.9	
A 41 C23-C40	15.528	(12.352-18.703)		5713955	696.7	
A 8 C24-C40	15.755	(12.806-18.703)		5230703	657.5	
56 Dotriacontane		15.904			ND	
A 51 C28-C40	16.582	(14.460-18.703)		3320223	527.5	
A 63 C29-C40	16.771	(14.838-18.703)		2796657	484.9	
42 n-Hexatriacontane		17.185			ND	
43 C40		18.703			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

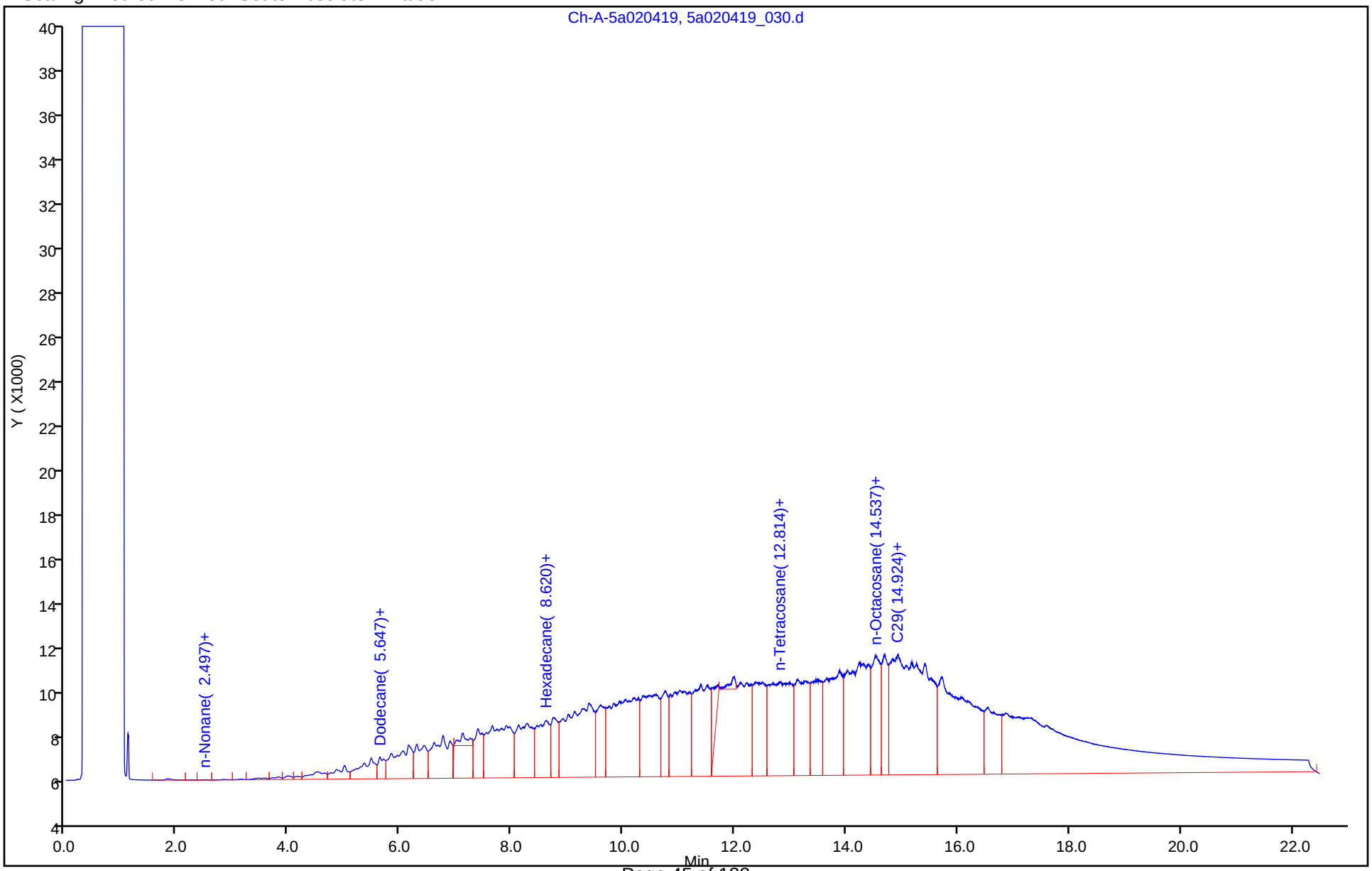
Report Date: 05-Feb-2019 12:26:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_030.d

Injection Date:	04-Feb-2019 23:42:51	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-6-D	Lab Sample ID:	720-90961-6	Worklist Smp#:	30
Client ID:	DG-AO11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

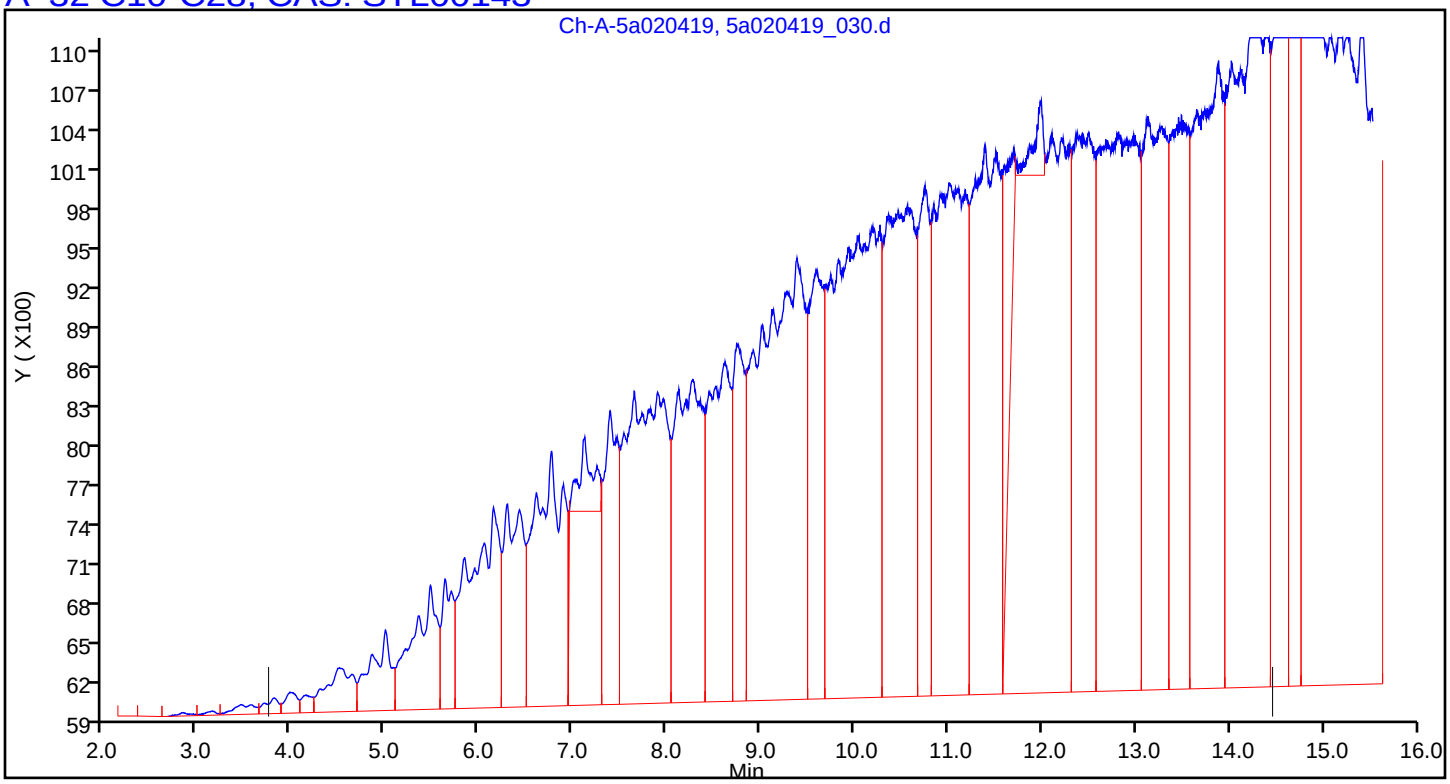


Report Date: 05-Feb-2019 12:26:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_030.d				
Injection Date:	04-Feb-2019 23:42:51	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-6-D	Lab Sample ID:	720-90961-6		
Client ID:	DG-AO11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

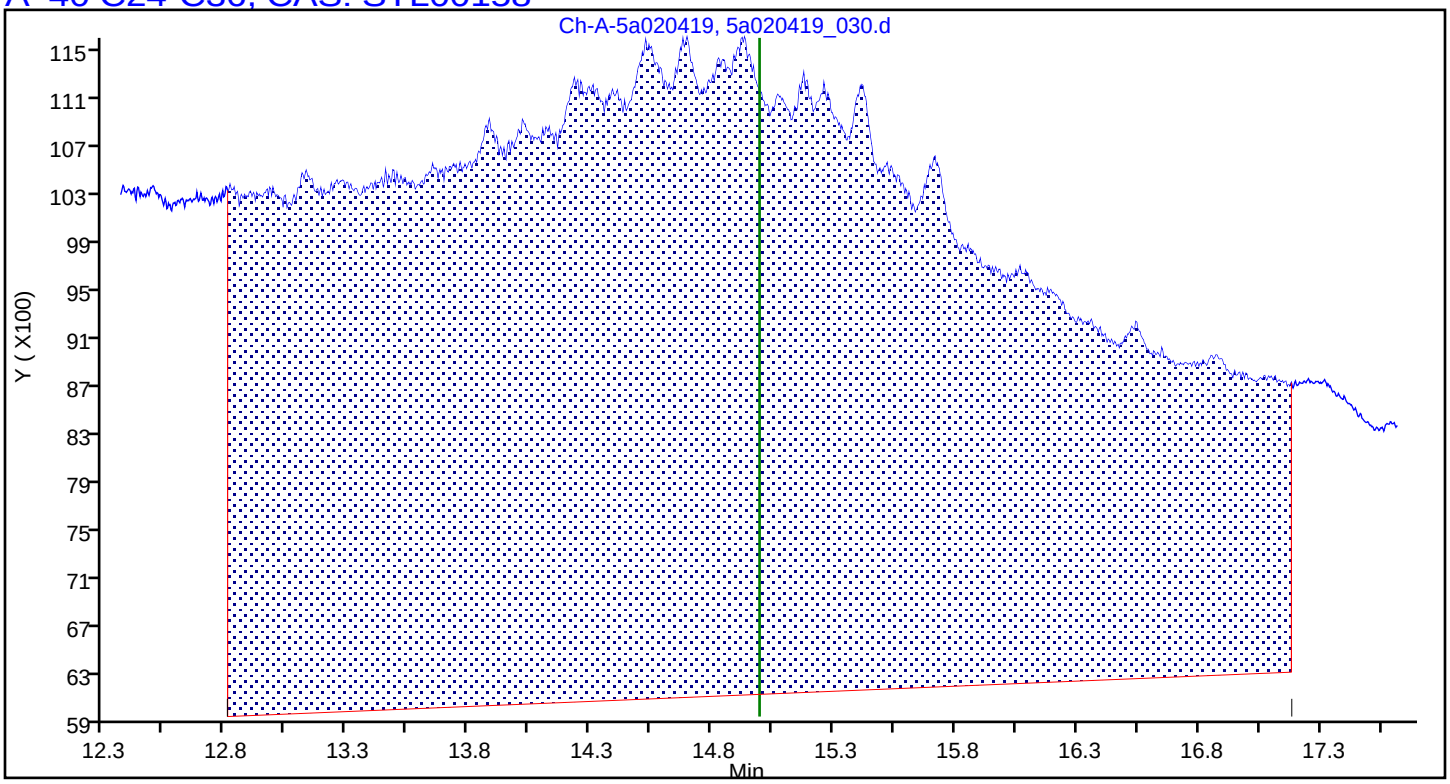


Report Date: 05-Feb-2019 12:26:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_030.d				
Injection Date:	04-Feb-2019 23:42:51	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-6-D	Lab Sample ID:	720-90961-6		
Client ID:	DG-AO11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

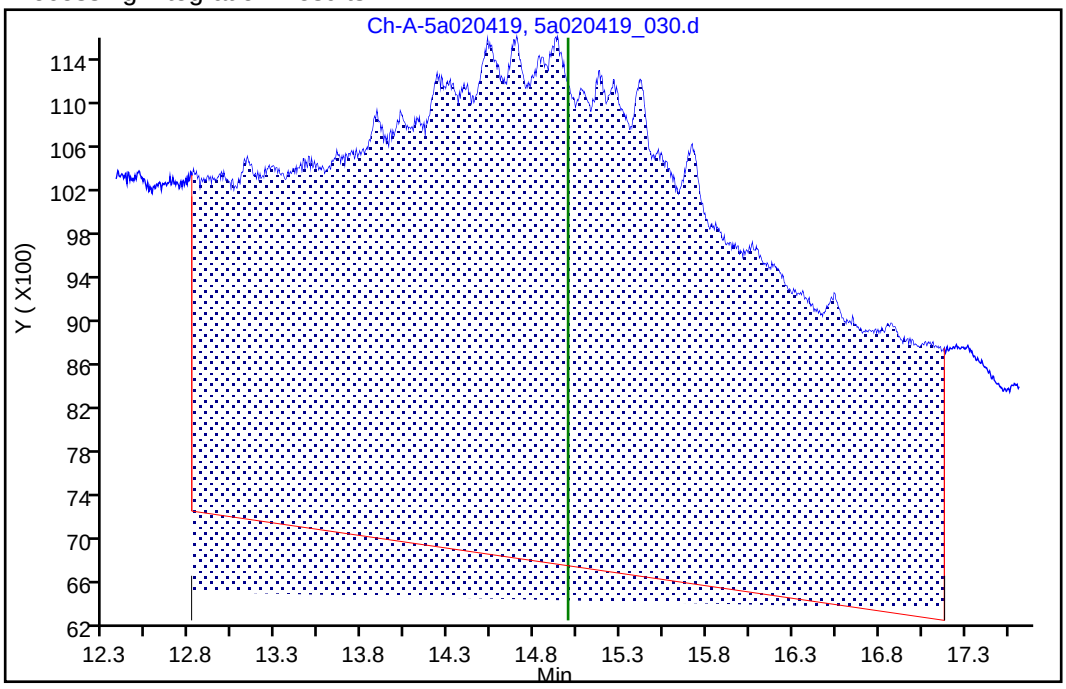
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_030.d				
Injection Date:	04-Feb-2019 23:42:51	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-6-D	Lab Sample ID:	720-90961-6		
Client ID:	DG-AO11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.995, CAS: STL00158

Signal: 1

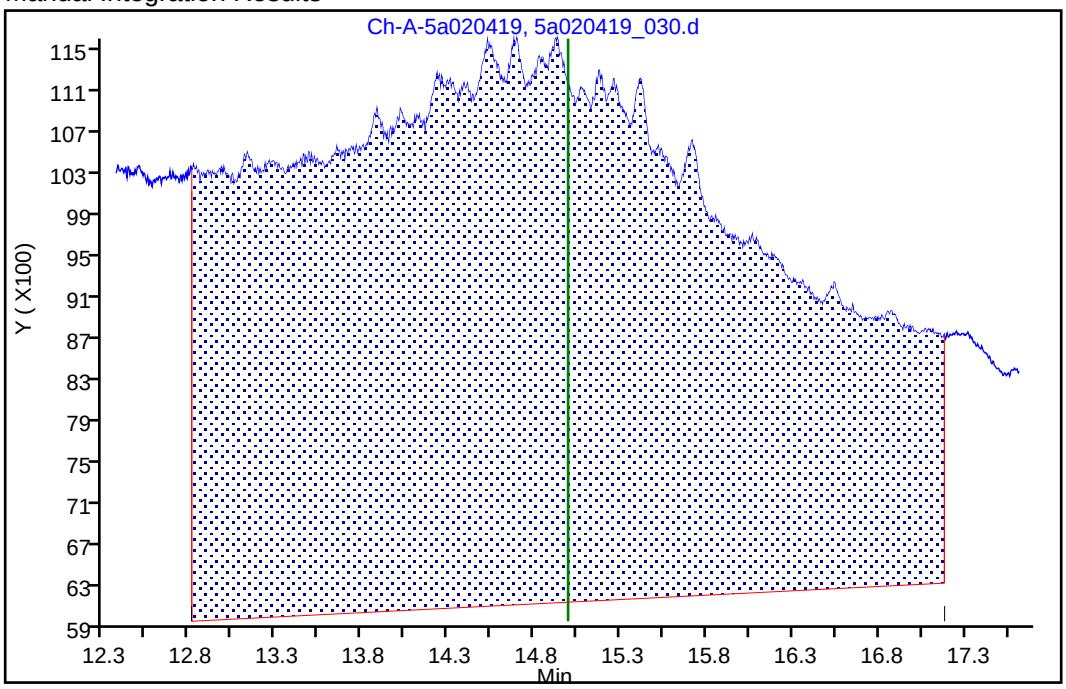
Processing Integration Results

RT: 15.00
Response: 4643271
Amount: 762.1771



Manual Integration Results

RT: 15.00
Response: 5410647
Amount: 888.1393



Reviewer: luj, 05-Feb-2019 12:26:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

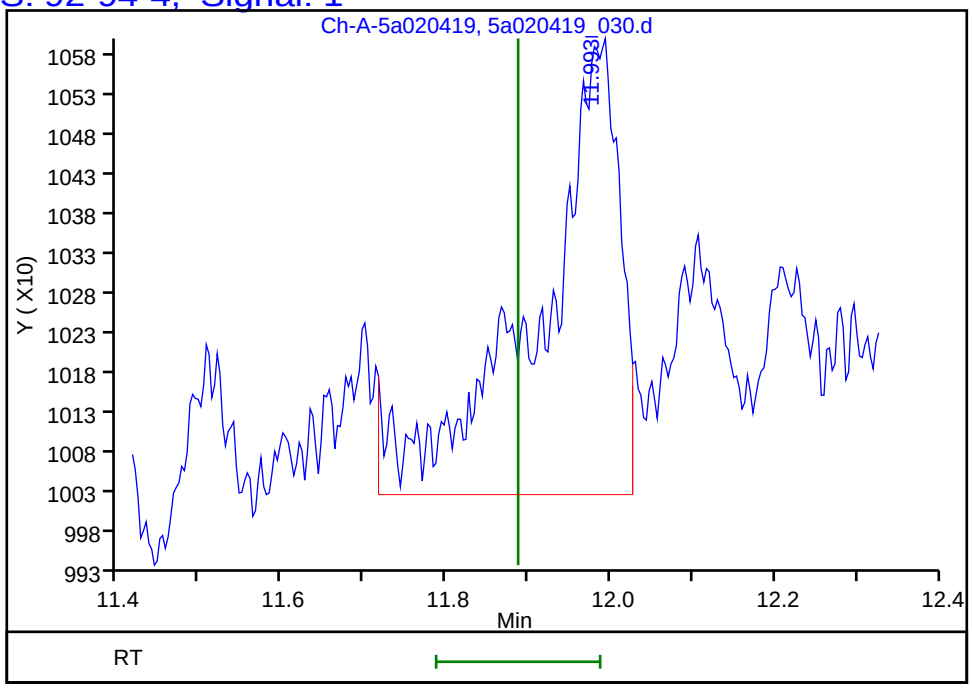
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_030.d

Injection Date:	04-Feb-2019 23:42:51	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-6-D	Lab Sample ID:	720-90961-6		
Client ID:	DG-AO11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.99
Response: 19765
Amount: 1.657454



Reviewer: luj, 05-Feb-2019 12:26:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_031.d
Lims ID: 720-90961-E-7-D
Client ID: DG-AB13S-0.5-1
Sample Type: Client
Inject. Date: 05-Feb-2019 00:12:05 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 009 Name: 720-0056421-031
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:27:12 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:27:12

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.532	2.502	0.030	459	NC	
23 n-Decane	3.783	3.751	0.032	559	NC	
A 1 C9-C13	4.492	(2.502-6.482)		8305	NC	
A 21 Stoddard Solvent	4.492	(2.502-6.482)		8305	NC	
A 57 C10-C12	4.714	(3.751-5.677)		2236	0.2281	
24 Dodecane	5.677	5.677	0.000	1487	NC	
A 3 C9 - C17	5.856	(2.502-9.211)		59536	4.91	
A 47 C9 - C18	6.153	(2.502-9.805)		131900	12.3	
A 60 C10-C16	6.162	(3.751-8.573)		44375	4.03	
A 15 Kerosene	6.422	(2.502-10.342)		131900	12.2	
A 25 C9-C19	6.422	(2.502-10.342)		131900	10.8	
26 C13	6.468	6.482	-0.014	2340	NC	
A 59 C12-C16	7.125	(5.677-8.573)		42139	4.30	
$ 27 n-Decanoic Acid (Surr)		7.135			ND	U
A 62 C10-C20	7.314	(3.751-10.878)		720766	73.5	
A 28 C9-C24	7.654	(2.502-12.806)		2830399	288.8	
A 29 C9-C25	7.872	(2.502-13.242)		2830399	288.8	
A 54 C10-C23	8.051	(3.751-12.352)		1800931	183.7	
A 4 C10-C24	8.278	(3.751-12.806)		2828858	288.6	
A 16 C10-C25	8.496	(3.751-13.242)		2828858	288.6	
45 Hexadecane	8.580	8.573	0.007	13620	NC	
A 14 C10-C26	8.706	(3.751-13.662)		3278304	334.5	M
A 67 C12-C22	8.779	(5.677-11.881)		1025569	104.6	
A 12 Unknown Hydrocarbons	9.105	(3.751-14.460)		4701794	NC	M
A 32 C10-C28	9.105	(3.751-14.460)		4701794	479.7	M
A 5 Diesel	9.105	(3.751-14.460)		4701794	479.7	M
A 30 C13-C22	9.182	(6.482-11.881)		1023381	104.4	
44 Heptadecane	9.219	9.211	0.008	72364	NC	
A 31 C12-C24	9.241	(5.677-12.806)		2826622	288.4	
49 n-Octadecane		9.805			ND	
A 9 Crude Oil Range Organics (	9.843	(2.502-17.185)		9291100	NC	
A 52 Mineral oil	9.843	(2.502-17.185)		9291100	808.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.843	(2.502-17.185)		8494194	NC	M
33 C19	10.358	10.342	0.016	345020	NC	
A 17 C10-C36	10.468	(3.751-17.185)		8492653	866.5	M
A 64 C13-C28	10.471	(6.482-14.460)		4697370	479.3	M
A 13 C9-C40	10.603	(2.502-18.703)		10765828	1328.7	
A 68 Crude Oil Range Organics (	10.603	(2.502-18.703)		10765828	NC	
A 58 C16-C24	10.689	(8.573-12.806)		2784483	284.1	
61 icosane		10.878			ND	
A 6 C10-C40	11.227	(3.751-18.703)		10762579	1328.5	
35 n-Docosane		11.881			ND	
$ 34 p-Terphenyl		11.887			ND	U
A 18 C12-C40	12.190	(5.677-18.703)		10746370	1326.8	
36 Tricosane	12.355	12.352	0.003	417432	NC	
A 66 C13-C40	12.593	(6.482-18.703)		10731977	1325.1	
37 n-Tetracosane	12.805	12.806	-0.001	610495	NC	
A 2 C16-C36 ORO	12.879	(8.573-17.185)		9159889	1206.9	
38 C25	13.250	13.242	0.008	449446	NC	
A 19 C16-C40	13.638	(8.573-18.703)		10634617	1313.6	
46 n-Hexacosane		13.662			ND	
A 20 C19-C36	13.763	(10.342-17.185)		8235789	954.5	
A 55 C23-C32	14.128	(12.352-15.904)		5327302	1120.3	
39 n-Octacosane		14.460			ND	
65 C29	14.931	14.838	0.093	567687	NC	
A 7 Motor Oil	14.995	(12.806-17.185)		6103758	1001.9	
A 40 C24-C36	14.995	(12.806-17.185)		6103758	1001.9	
A 50 C25-C36	15.213	(13.242-17.185)		5587480	965.8	
A 10 C22-C40	15.292	(11.881-18.703)		8488416	1015.4	
A 41 C23-C40	15.528	(12.352-18.703)		7983882	973.5	
A 8 C24-C40	15.755	(12.806-18.703)		7474746	939.6	
56 Dotriacontane		15.904			ND	
A 51 C28-C40	16.582	(14.460-18.703)		5267944	888.5	
A 63 C29-C40	16.771	(14.838-18.703)		4613415	858.8	
42 n-Hexatriacontane	17.210	17.185	0.025	3075641	NC	
43 C40		18.703			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

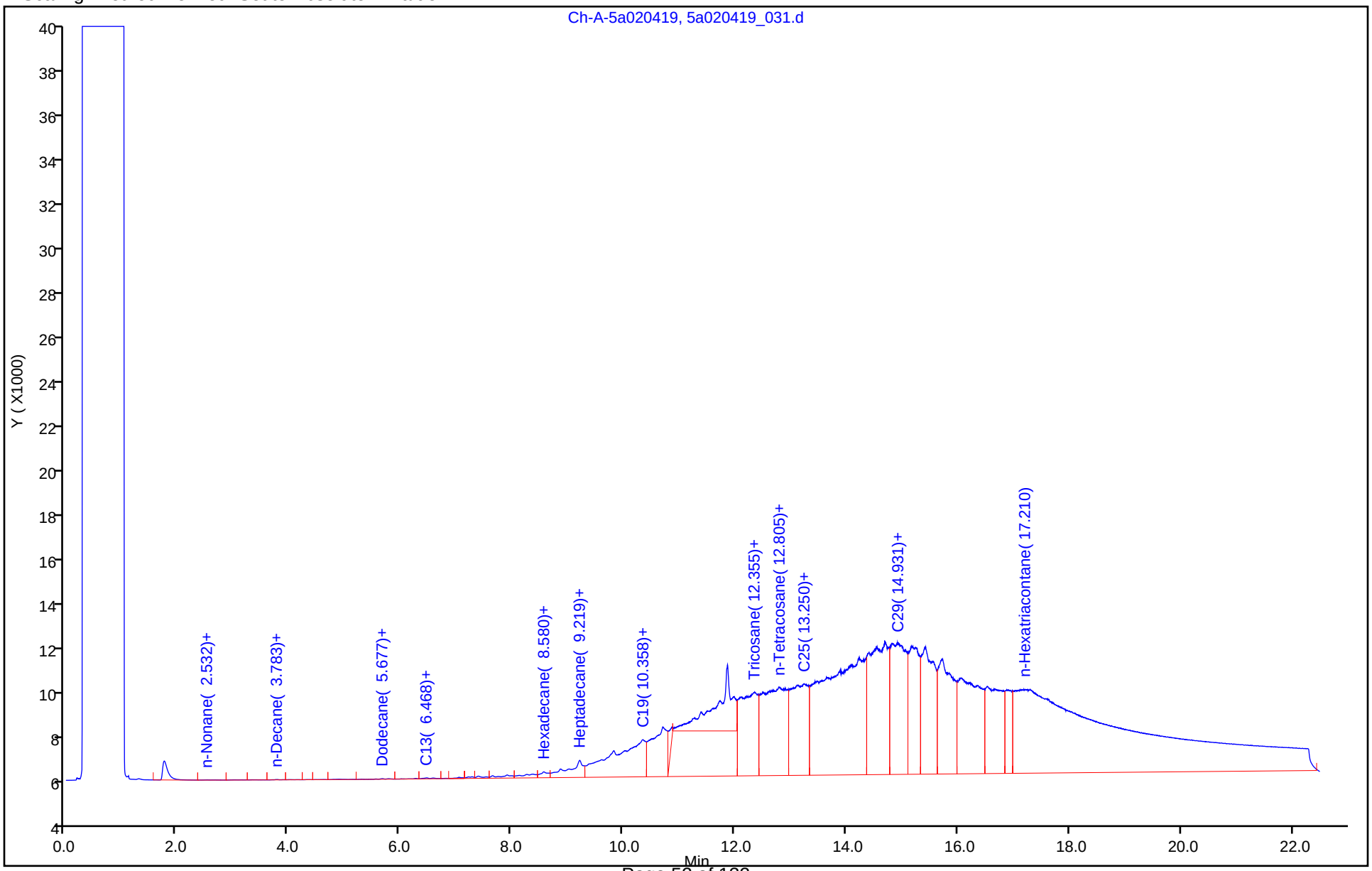
Report Date: 05-Feb-2019 12:27:12 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_031.d

Injection Date:	05-Feb-2019 00:12:05	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-7-D	Lab Sample ID:	720-90961-7	Worklist Smp#:	31
Client ID:	DG-AB13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

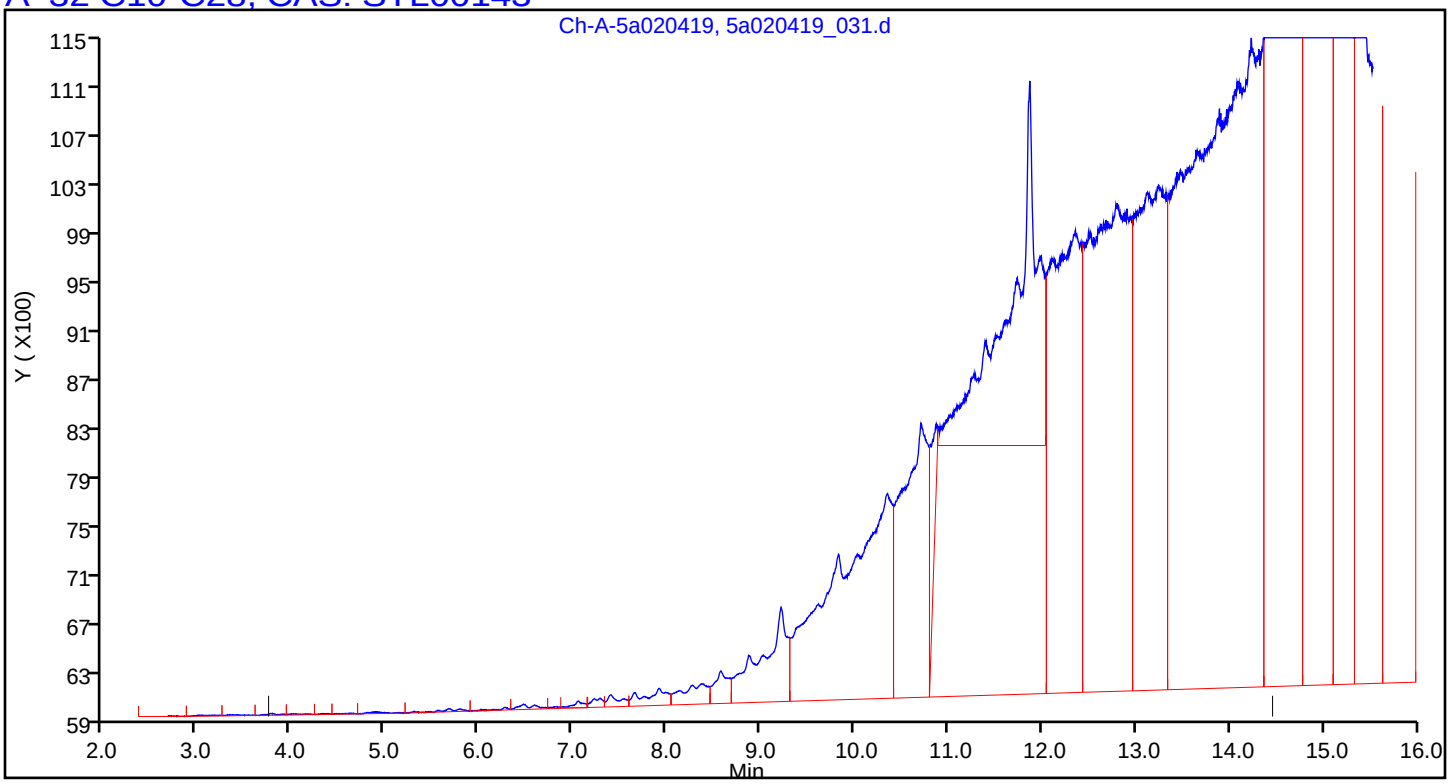


Report Date: 05-Feb-2019 12:27:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_031.d				
Injection Date:	05-Feb-2019 00:12:05	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-7-D	Lab Sample ID:	720-90961-7		
Client ID:	DG-AB13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

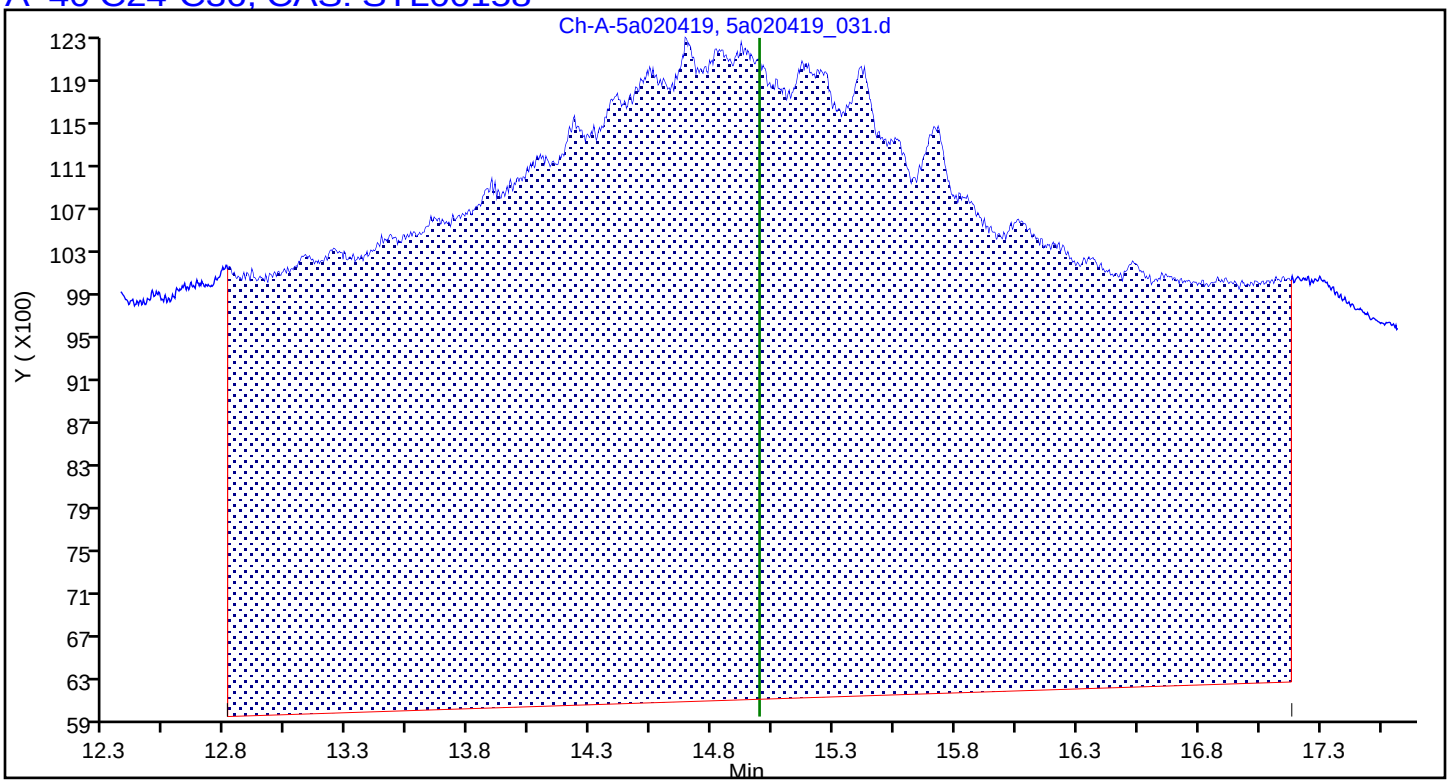


Report Date: 05-Feb-2019 12:27:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_031.d				
Injection Date:	05-Feb-2019 00:12:05	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-7-D	Lab Sample ID:	720-90961-7		
Client ID:	DG-AB13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

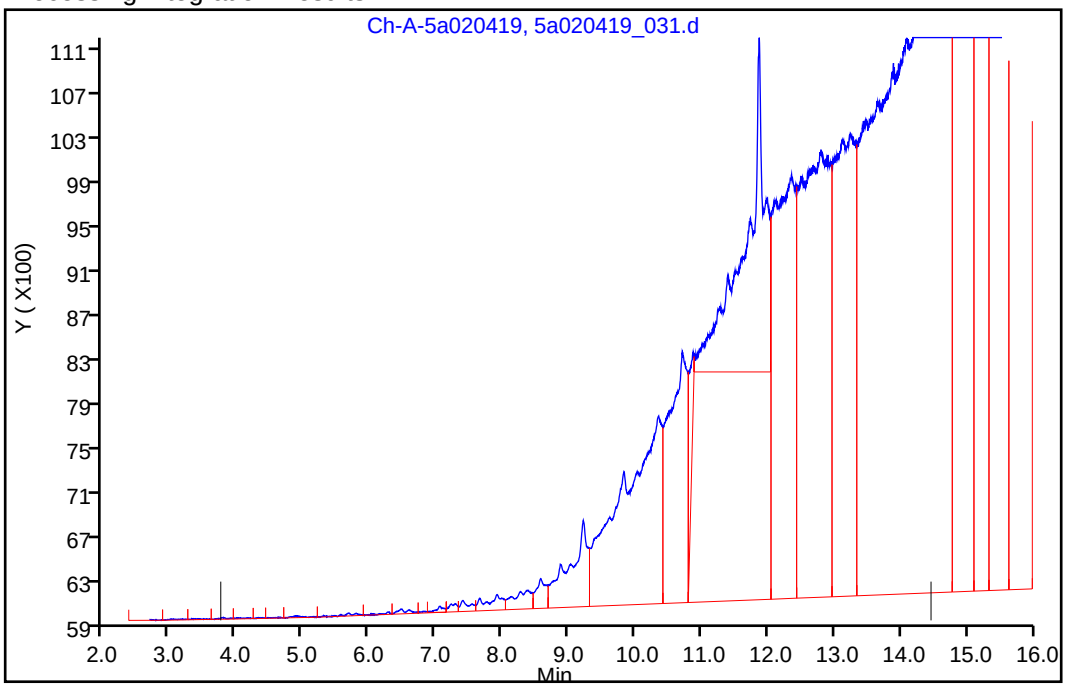
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_031.d				
Injection Date:	05-Feb-2019 00:12:05	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-7-D	Lab Sample ID:	720-90961-7		
Client ID:	DG-AB13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.105, CAS: STL00143

Signal: 1

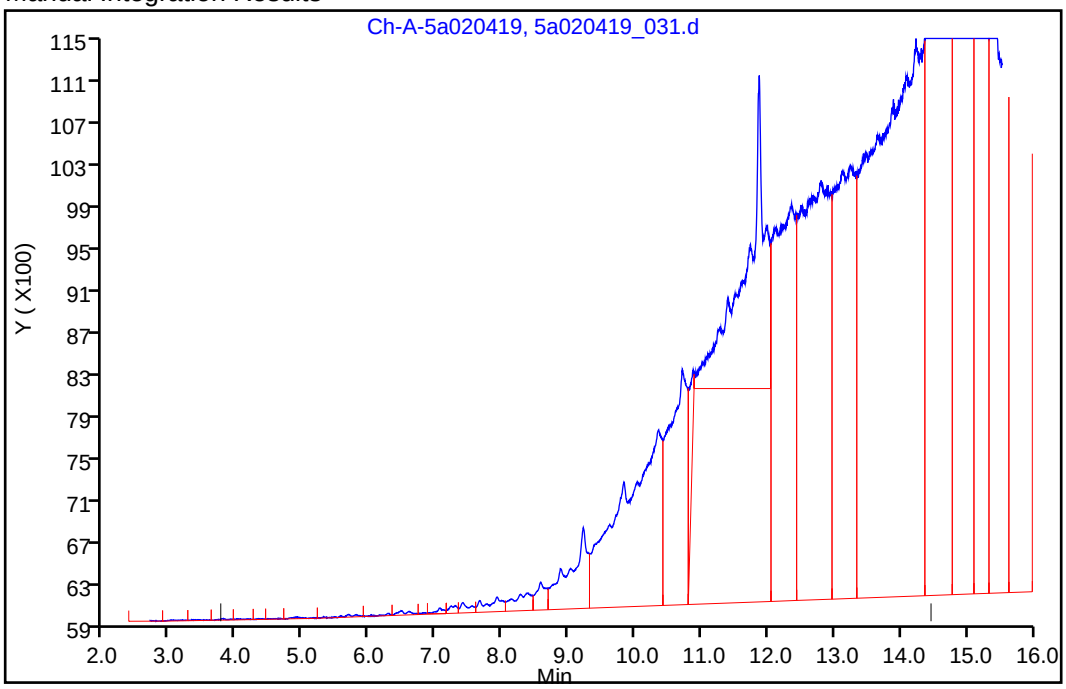
Processing Integration Results

RT: 9.11
Response: 2969193
Amount: 302.9476



Manual Integration Results

RT: 9.11
Response: 4701794
Amount: 479.7253



Reviewer: luj, 05-Feb-2019 12:27:02

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

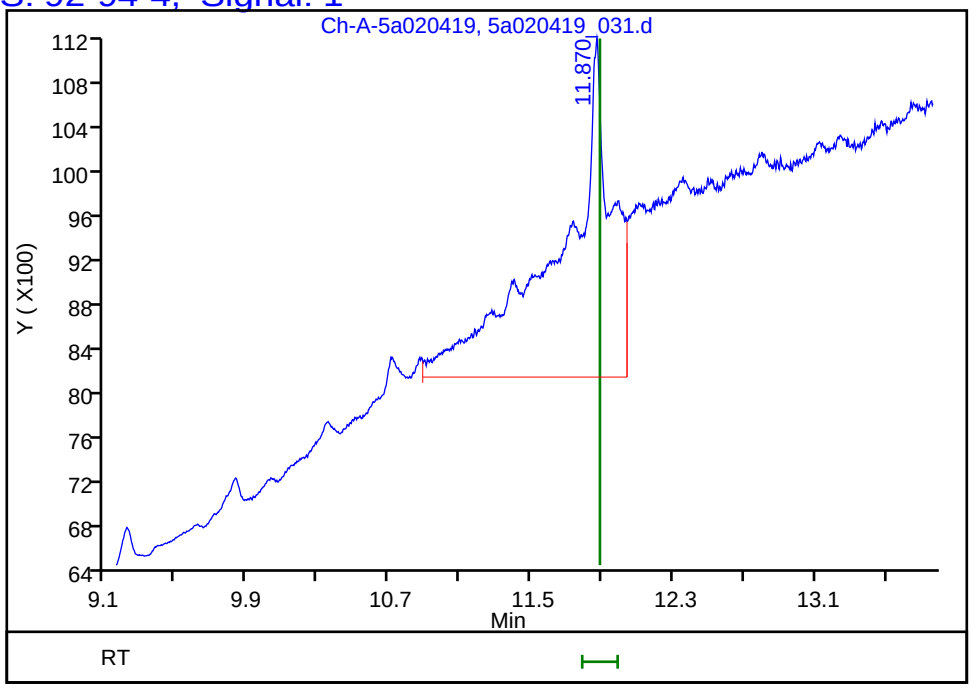
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_031.d				
Injection Date:	05-Feb-2019 00:12:05	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-7-D	Lab Sample ID:	720-90961-7		
Client ID:	DG-AB13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.87
Response: 307039
Amount: 25.747692



Reviewer: luj, 05-Feb-2019 12:27:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_038.d
Lims ID: 720-90961-E-8-D
Client ID: DG-AB13S-3.5-4
Sample Type: Client
Inject. Date: 01-Feb-2019 02:29:48 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 114 Name: 720-0056377-038
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\DRO5B.m
Limit Group: DRO
Last Update: 01-Feb-2019 13:42:28 Calib Date: 31-Jan-2019 08:51:58
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 01-Feb-2019 13:42:28

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.603	2.657	-0.055	440	NC	
	23 n-Decane	3.870	3.879	-0.009	2147	NC	
A	1 C9-C13	4.613	(2.657-6.569)		21802	1.72	M
A	21 Stoddard Solvent	4.613	(2.657-6.569)		21802	1.92	M
A	57 C10-C12	4.824	(3.879-5.769)		14588	1.49	M
	24 Dodecane	5.823	5.769	0.054	450	NC	M
A	3 C9 - C17	5.965	(2.657-9.273)		92006	6.59	M
A	47 C9 - C18	6.253	(2.657-9.850)		188003	16.7	M
A	60 C10-C16	6.262	(3.879-8.644)		71886	5.83	M
A	15 Kerosene	6.531	(2.657-10.405)		330806	29.4	M
A	25 C9-C19	6.531	(2.657-10.405)		330806	23.7	M
	26 C13	6.520	6.569	-0.049	621	NC	M
$	27 n-Decanoic Acid (Surr)		7.186			ND	U
A	59 C12-C16	7.207	(5.769-8.644)		59151	6.02	M
A	62 C10-C20	7.409	(3.879-10.939)		593230	60.4	M
A	28 C9-C24	7.758	(2.657-12.858)		2293896	233.6	M
A	29 C9-C25	7.975	(2.657-13.293)		2753871	280.5	M
A	54 C10-C23	8.143	(3.879-12.408)		1845688	188.0	M
A	4 C10-C24	8.369	(3.879-12.858)		2290087	233.2	M
A	16 C10-C25	8.586	(3.879-13.293)		2750062	280.1	M
	45 Hexadecane	8.640	8.644	-0.004	13169	NC	M
A	14 C10-C26	8.795	(3.879-13.711)		3066576	312.3	M
A	67 C12-C22	8.854	(5.769-11.938)		1383573	140.9	M
A	5 Diesel	9.192	(3.879-14.506)		4128663	420.5	M
A	32 C10-C28	9.192	(3.879-14.506)		4128663	420.5	M
A	12 Unknown Hydrocarbons	9.192	(3.879-14.506)		4128663	NC	M
A	30 C13-C22	9.254	(6.569-11.938)		1378936	140.4	M
	44 Heptadecane	9.283	9.273	0.010	43318	NC	M
A	31 C12-C24	9.314	(5.769-12.858)		2277352	232.0	M
	49 n-Octadecane	9.893	9.850	0.043	54111	NC	M
A	52 Mineral oil	9.939	(2.657-17.220)		8117716	727.3	
A	9 Crude Oil Range Organics (	9.939	(2.657-17.220)		8117716	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.939	(2.657-17.220)		10516346	NC	M
33 C19	10.440	10.405	0.035	86528	NC	M
A 64 C13-C28	10.537	(6.569-14.506)		4111291	418.7	M
A 17 C10-C36	10.602	(3.983-17.220)		10510390	1070.5	M
A 13 C9-C40	10.703	(2.657-18.749)		9530558	1204.7	
A 68 Crude Oil Range Organics (	10.703	(2.657-18.749)		9530558	NC	
A 58 C16-C24	10.751	(8.644-12.858)		2231370	227.3	M
61 icosane	10.990	10.939	0.051	100790	NC	M
A 6 C10-C40	11.314	(3.879-18.749)		9524310	1204.1	
$ 34 p-Terphenyl	11.910	11.913	-0.003	250584	21.8	
35 n-Docosane		11.938			ND	
A 18 C12-C40	12.259	(5.769-18.749)		9499547	1201.4	
36 Tricosane	12.400	12.408	-0.008	243538	NC	M
A 66 C13-C40	12.659	(6.569-18.749)		9274293	1175.9	
37 n-Tetracosane	12.857	12.858	-0.001	148712	NC	M
A 2 C16-C36 ORO	12.932	(8.644-17.220)		6090679	853.7	
38 C25	13.290	13.293	-0.002	158598	NC	M
A 19 C16-C40	13.697	(8.644-18.749)		9395411	1190.2	
46 n-Hexacosane		13.711			ND	
A 20 C19-C36	13.812	(10.405-17.220)		6061196	777.3	
A 55 C23-C32	14.176	(12.408-15.945)		4283265	1042.8	
39 n-Octacosane	14.443	14.506	-0.063	204089	NC	M
65 C29	14.887	14.883	0.004	212951	NC	M
A 40 C24-C36	15.039	(12.858-17.220)		5265038	922.4	
A 7 Motor Oil	15.039	(12.858-17.220)		5265038	922.4	
A 50 C25-C36	15.256	(13.293-17.220)		4846884	900.7	
A 10 C22-C40	15.344	(11.938-18.749)		7114547	898.1	
A 41 C23-C40	15.579	(12.408-18.749)		6944930	898.3	
A 8 C24-C40	15.804	(12.858-18.749)		6528476	875.3	
56 Dotriacontane		15.945			ND	
A 51 C28-C40	16.628	(14.506-18.749)		4698078	941.5	
A 63 C29-C40	16.816	(14.883-18.749)		4150514	933.9	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.749			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated

Review Flags
- M - Manually Integrated
- U - Marked Undetected

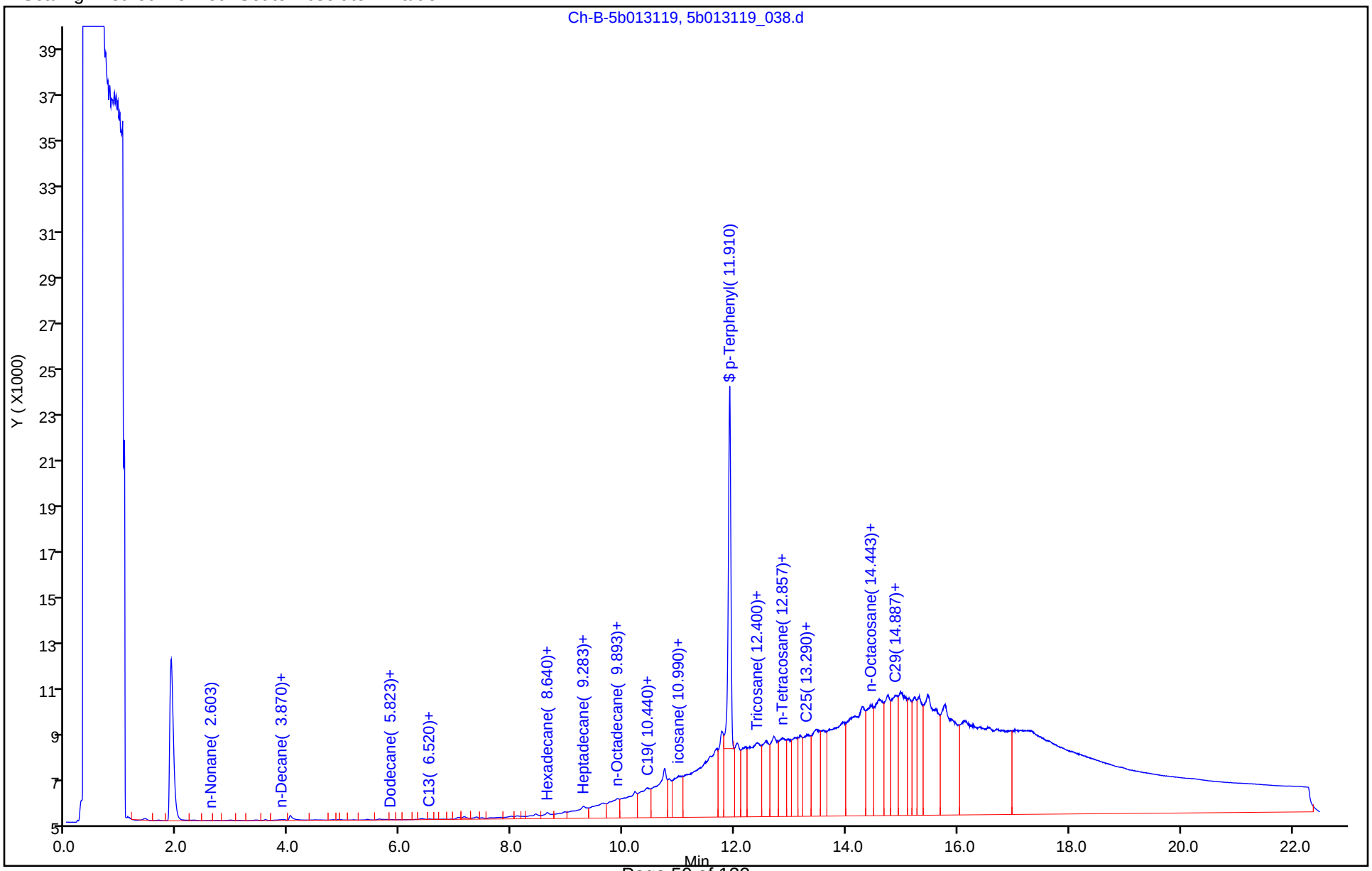
Report Date: 01-Feb-2019 13:42:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_038.d

Injection Date:	01-Feb-2019 02:29:48	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-8-D	Lab Sample ID:	720-90961-8	Worklist Smp#:	38
Client ID:	DG-AB13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_038.d				
Lims ID:	720-90961-E-8-D				
Client ID:	DG-AB13S-3.5-4				
Sample Type:	Client				
Inject. Date:	01-Feb-2019 02:29:48	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 114 Name: 720-0056377-038				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	01-Feb-2019 13:42:28	Calib Date:	31-Jan-2019 08:51:58		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 01-Feb-2019 13:42:28

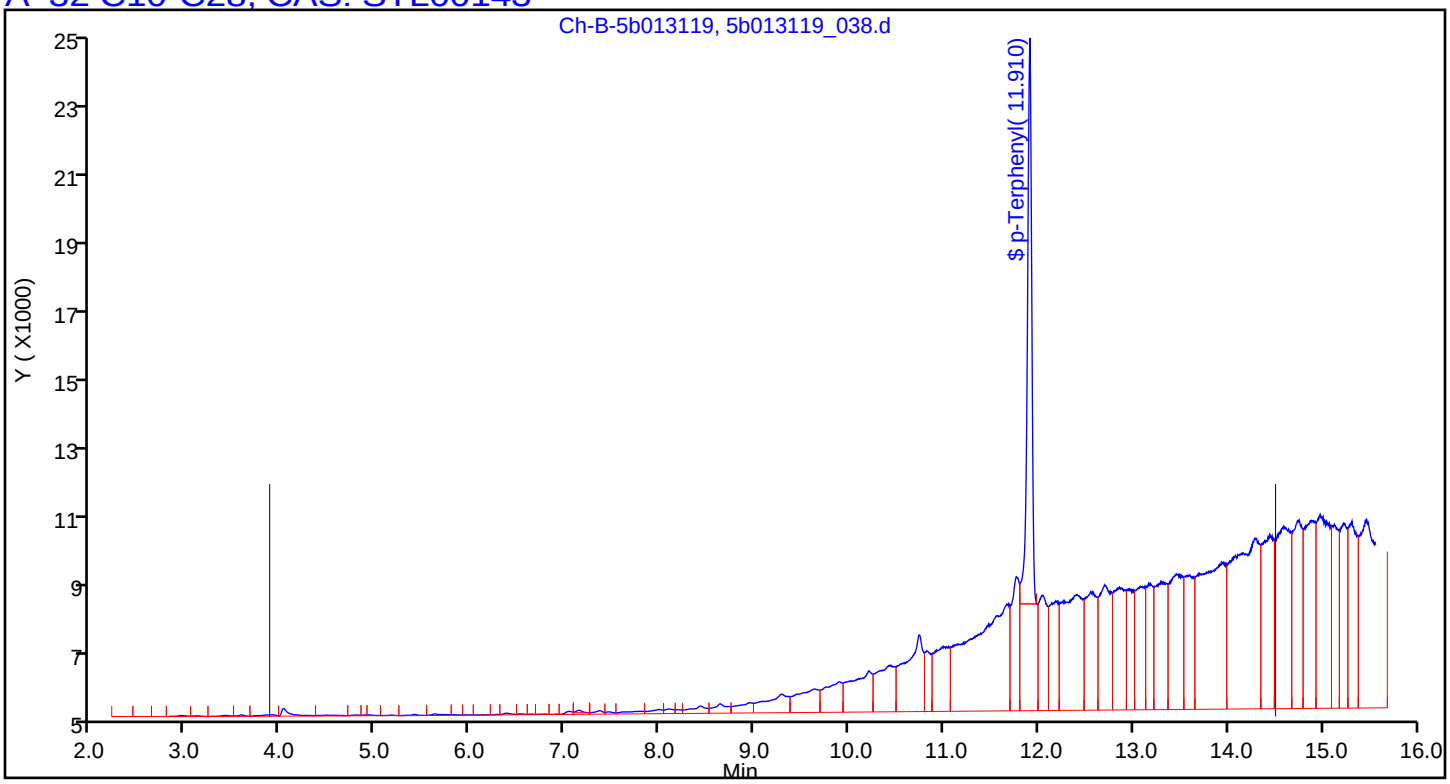
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	21.8	87.27

Report Date: 01-Feb-2019 13:42:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_038.d				
Injection Date:	01-Feb-2019 02:29:48	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-8-D	Lab Sample ID:	720-90961-8		
Client ID:	DG-AB13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

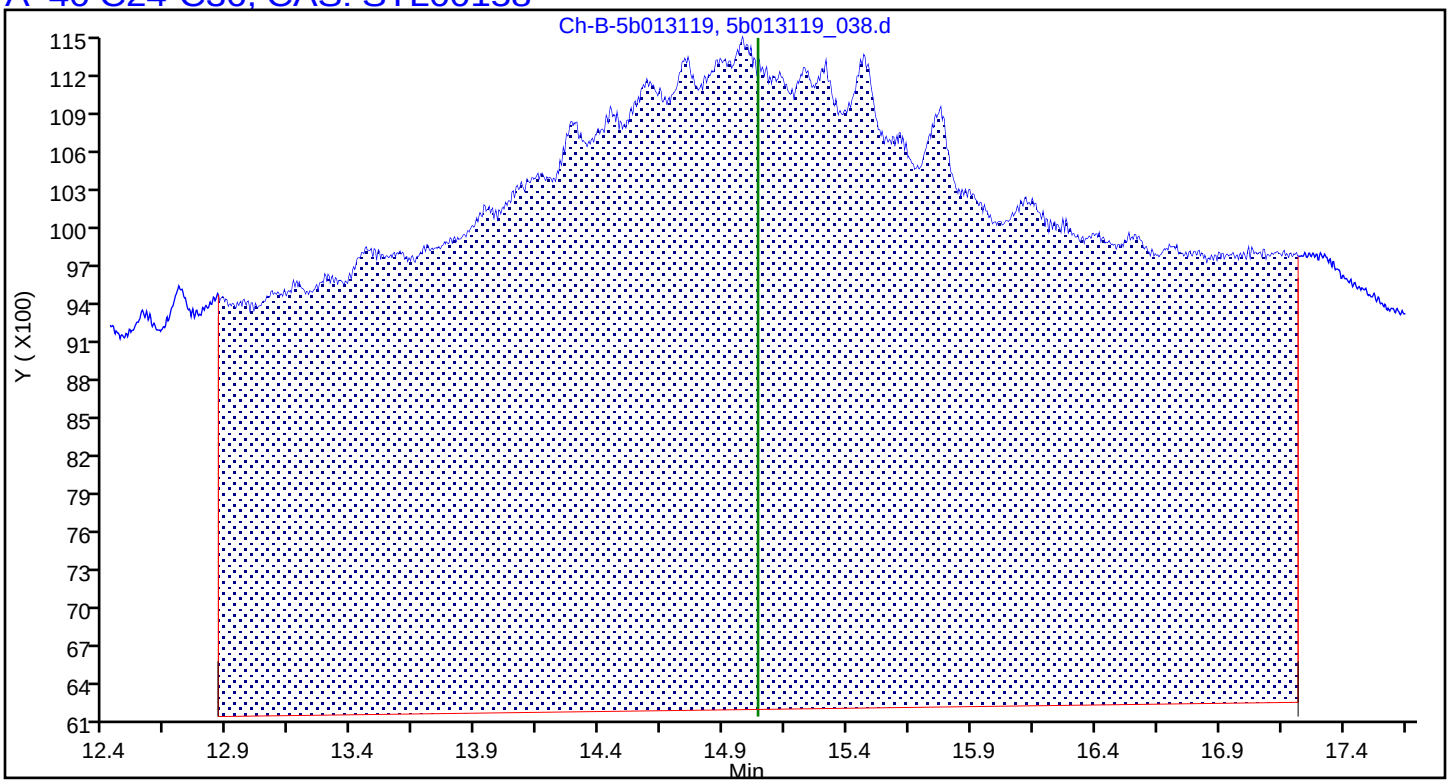


Report Date: 01-Feb-2019 13:42:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_038.d				
Injection Date:	01-Feb-2019 02:29:48	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-8-D	Lab Sample ID:	720-90961-8		
Client ID:	DG-AB13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

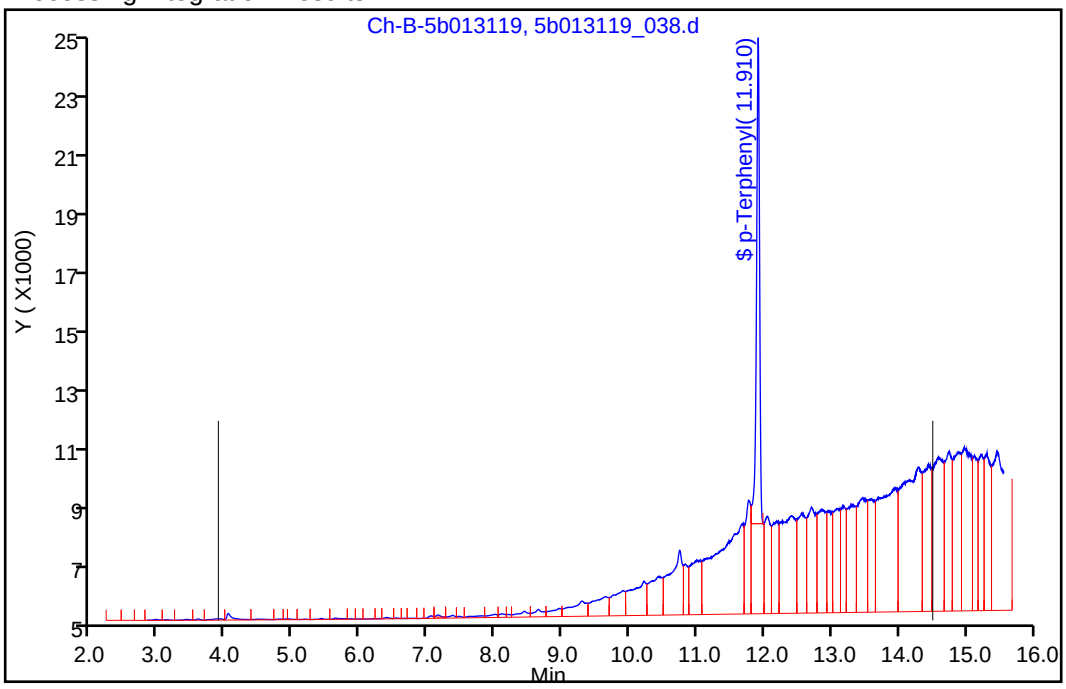
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_038.d				
Injection Date:	01-Feb-2019 02:29:48	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-8-D	Lab Sample ID:	720-90961-8		
Client ID:	DG-AB13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.192, CAS: STL00143

Signal: 1

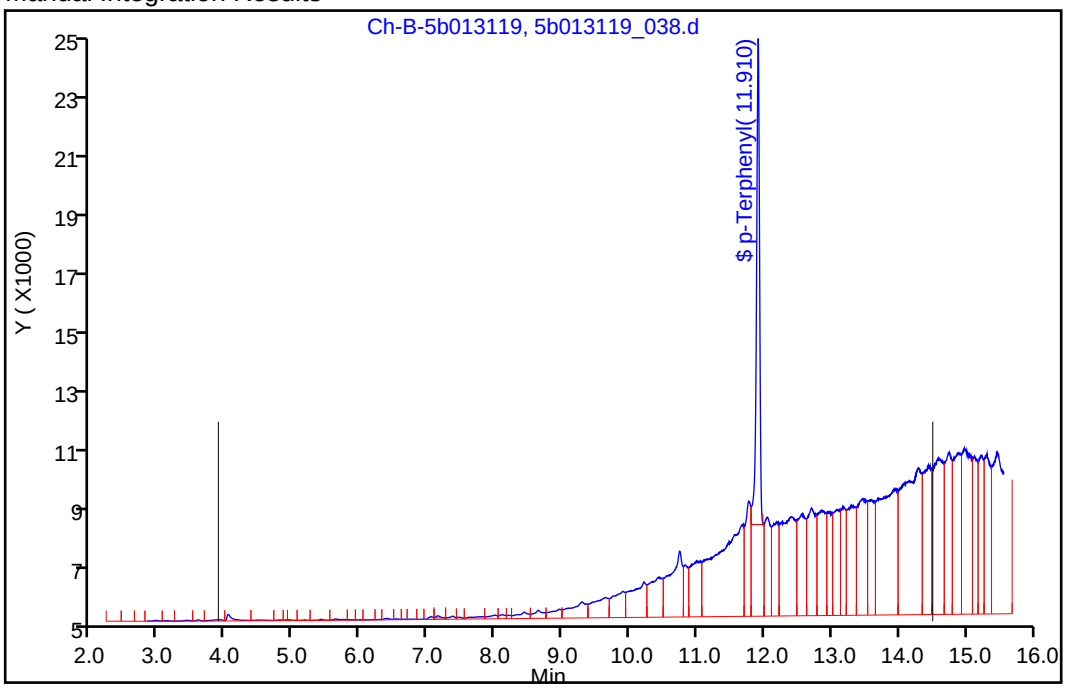
Processing Integration Results

RT: 9.19
Response: 3972819
Amount: 404.6376



Manual Integration Results

RT: 9.19
Response: 4128663
Amount: 420.5105



Reviewer: luj, 01-Feb-2019 13:42:21

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_032.d
Lims ID: 720-90961-E-9-D
Client ID: DG-AB13S-13.5-14
Sample Type: Client
Inject. Date: 05-Feb-2019 00:41:37 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 100.0000
Sample Info: #: 010 Name: 720-0056421-032
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:28:18 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:28:18

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.511	2.502	0.009	1397	NC	
	23 n-Decane	3.784	3.751	0.033	11267	NC	
A	1 C9-C13	4.492	(2.502-6.482)		854032	NC	
A	21 Stoddard Solvent	4.492	(2.502-6.482)		854032	NC	
A	57 C10-C12	4.714	(3.751-5.677)		355936	36.3	
	24 Dodecane	5.642	5.677	-0.035	117362	NC	
A	3 C9 - C17	5.856	(2.502-9.211)		3724749	307.3	
A	47 C9 - C18	6.153	(2.502-9.805)		4809498	446.8	
A	60 C10-C16	6.162	(3.751-8.573)		3357998	304.7	
A	15 Kerosene	6.422	(2.502-10.342)		5452955	505.6	
A	25 C9-C19	6.422	(2.502-10.342)		5452955	446.7	
	26 C13	6.441	6.482	-0.041	119848	NC	
A	59 C12-C16	7.125	(5.677-8.573)		3119424	318.3	
$	27 n-Decanoic Acid (Surr)		7.135			ND	
A	62 C10-C20	7.314	(3.751-10.878)		6819038	695.7	
A	28 C9-C24	7.654	(2.502-12.806)		10979801	1120.3	
A	29 C9-C25	7.872	(2.502-13.242)		11968110	1221.1	
A	54 C10-C23	8.051	(3.751-12.352)		9842275	1004.2	
A	4 C10-C24	8.278	(3.751-12.806)		10955901	1117.8	
A	16 C10-C25	8.496	(3.751-13.242)		11944210	1218.7	
	45 Hexadecane		8.573			ND	
A	14 C10-C26	8.706	(3.751-13.662)		12406345	1265.8	
A	67 C12-C22	8.779	(5.677-11.881)		8650614	882.6	
A	12 Unknown Hydrocarbons	9.105	(3.751-14.460)		14253929	NC	
A	32 C10-C28	9.105	(3.751-14.460)		14253929	1454.3	
A	5 Diesel	9.105	(3.751-14.460)		14253929	1454.3	
A	30 C13-C22	9.182	(6.482-11.881)		8178904	834.5	
	44 Heptadecane	9.236	9.211	0.025	685491	NC	
A	31 C12-C24	9.241	(5.677-12.806)		10717327	1093.5	
	49 n-Octadecane	9.836	9.805	0.031	643457	NC	
A	9 Crude Oil Range Organics (	9.843	(2.502-17.185)		19598881	NC	
A	52 Mineral oil	9.843	(2.502-17.185)		19598881	1706.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.843	(2.502-17.185)		21572371	NC	
33 C19	10.370	10.342	0.028	562260	NC	
A 17 C10-C36	10.468	(3.751-17.185)		21548471	2198.6	
A 64 C13-C28	10.471	(6.482-14.460)		13543645	1381.9	
A 13 C9-C40	10.603	(2.502-18.703)		21049740	2639.4	
A 68 Crude Oil Range Organics (	10.603	(2.502-18.703)		21049740	NC	
A 58 C16-C24	10.689	(8.573-12.806)		8394065	856.4	
61 icosane		10.878			ND	
A 6 C10-C40	11.227	(3.751-18.703)		21016446	2635.2	
35 n-Docosane		11.881			ND	
$ 34 p-Terphenyl		11.887			ND	U
A 18 C12-C40	12.190	(5.677-18.703)		20652814	2589.0	
36 Tricosane	12.404	12.352	0.052	808773	NC	
A 66 C13-C40	12.593	(6.482-18.703)		20171320	2527.8	
37 n-Tetracosane	12.779	12.806	-0.027	304853	NC	
A 2 C16-C36 ORO	12.879	(8.573-17.185)		16425046	2164.2	
38 C25		13.242			ND	
A 19 C16-C40	13.638	(8.573-18.703)		17875905	2236.7	
46 n-Hexacosane	13.662	13.662	0.000	329232	NC	
A 20 C19-C36	13.763	(10.342-17.185)		11113748	1288.0	
A 55 C23-C32	14.128	(12.352-15.904)		7542070	1586.0	
39 n-Octacosane	14.531	14.460	0.071	391887	NC	
65 C29	14.921	14.838	0.083	1158132	NC	
A 7 Motor Oil	14.995	(12.806-17.185)		6805506	1117.1	
A 40 C24-C36	14.995	(12.806-17.185)		8091255	1328.2	M
A 50 C25-C36	15.213	(13.242-17.185)		6032516	1042.7	
A 10 C22-C40	15.292	(11.881-18.703)		9396635	1124.0	
A 41 C23-C40	15.528	(12.352-18.703)		8523168	1039.3	
A 8 C24-C40	15.755	(12.806-18.703)		7707569	968.9	
56 Dotriacontane		15.904			ND	
A 51 C28-C40	16.582	(14.460-18.703)		4736467	786.4	
A 63 C29-C40	16.771	(14.838-18.703)		4010708	729.9	
42 n-Hexatriacontane		17.185			ND	
43 C40		18.703			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

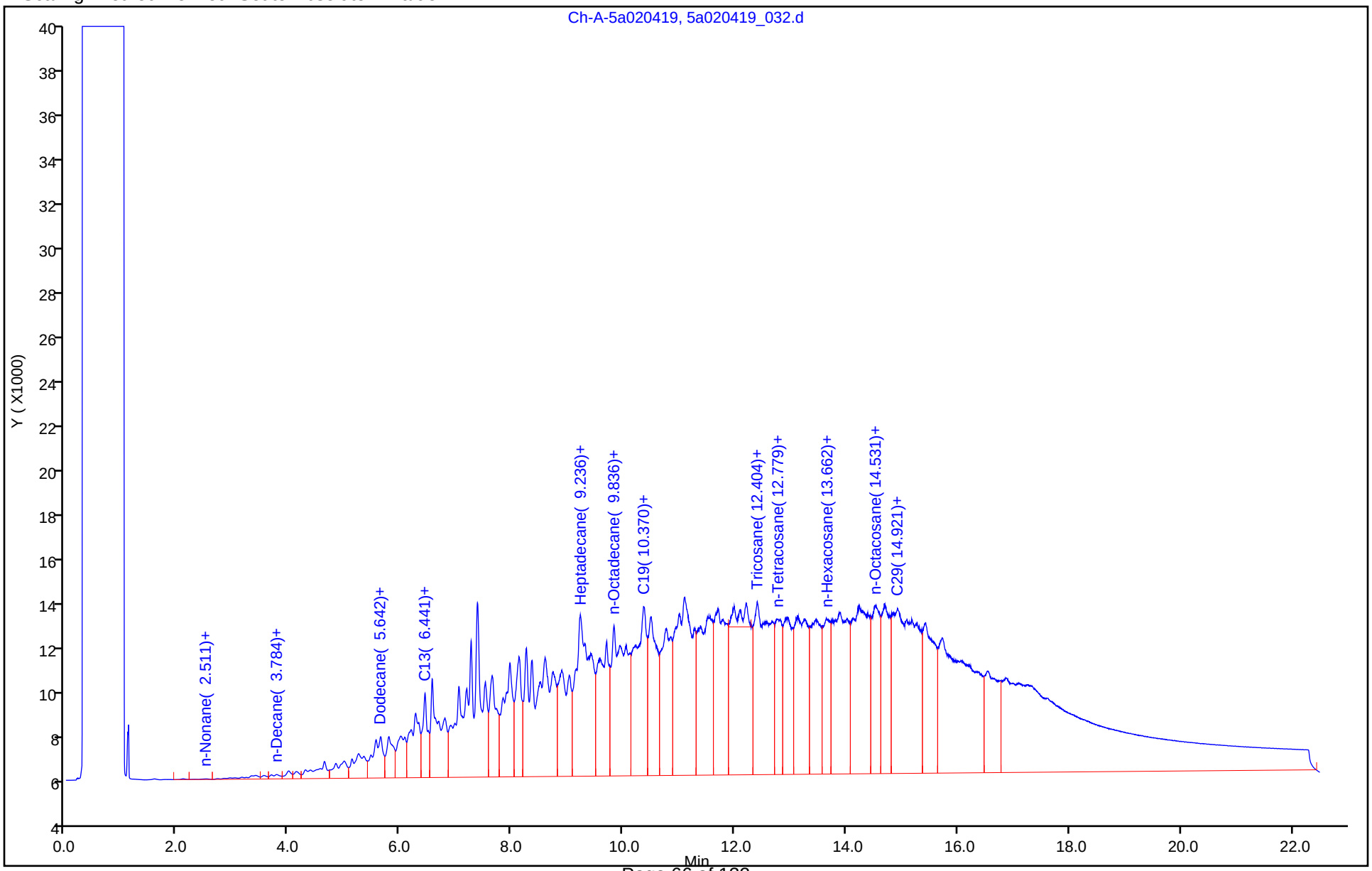
Report Date: 05-Feb-2019 12:28:19 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_032.d

Injection Date:	05-Feb-2019 00:41:37	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-9-D	Lab Sample ID:	720-90961-9	Worklist Smp#:	32
Client ID:	DG-AB13S-13.5-14				
Injection Vol:	1.0 ul	Dil. Factor:	100.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

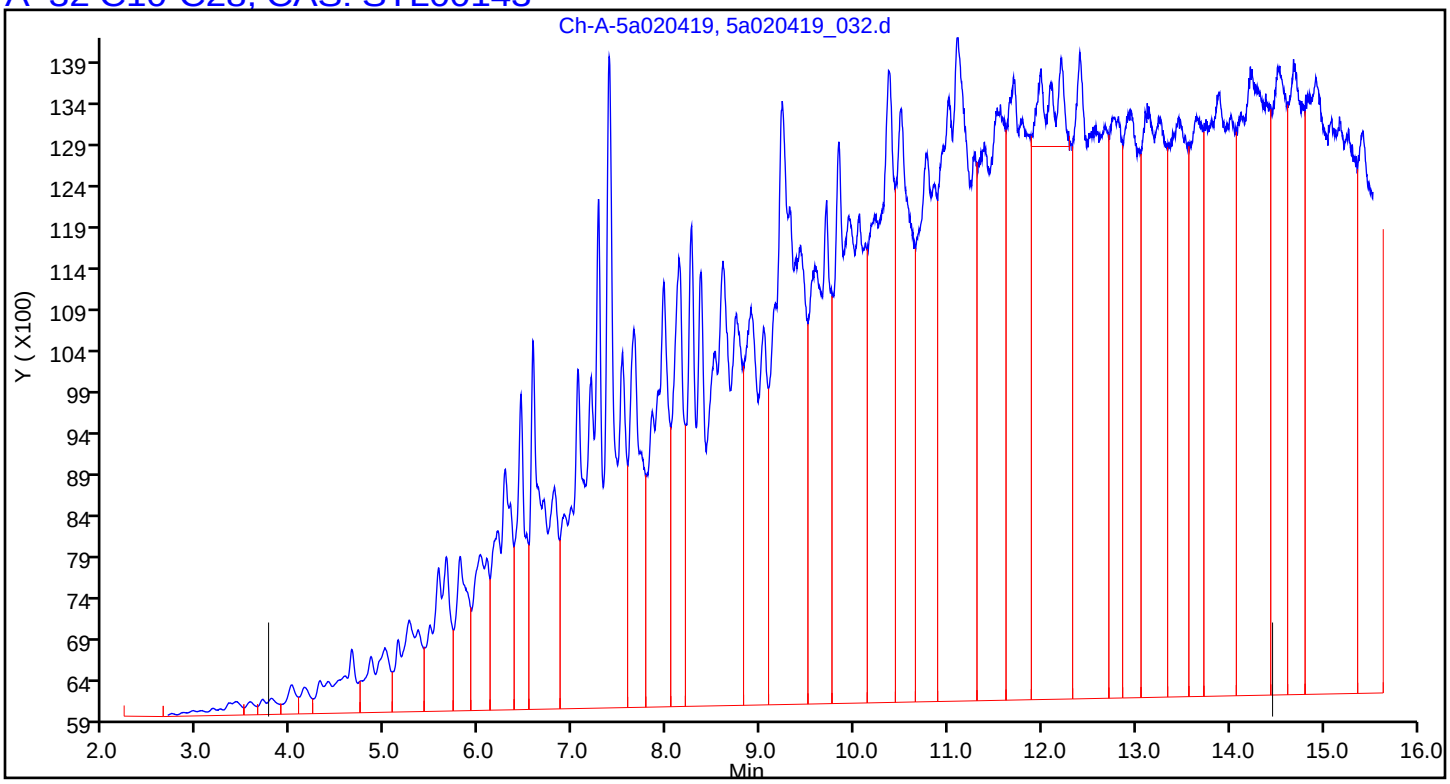


Report Date: 05-Feb-2019 12:28:19 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_032.d				
Injection Date:	05-Feb-2019 00:41:37	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-9-D	Lab Sample ID:	720-90961-9		
Client ID:	DG-AB13S-13.5-14				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

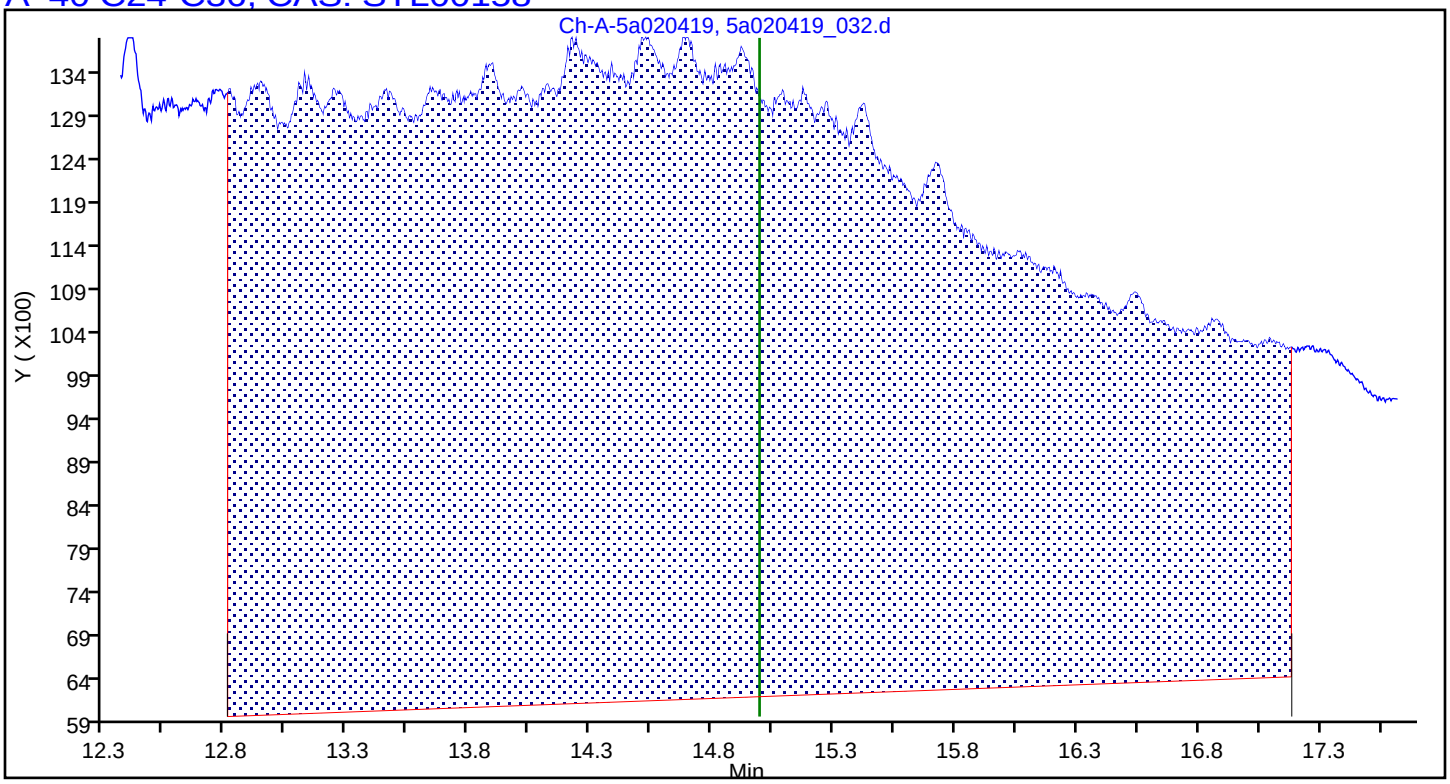


Report Date: 05-Feb-2019 12:28:20 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_032.d				
Injection Date:	05-Feb-2019 00:41:37	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-9-D	Lab Sample ID:	720-90961-9		
Client ID:	DG-AB13S-13.5-14				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

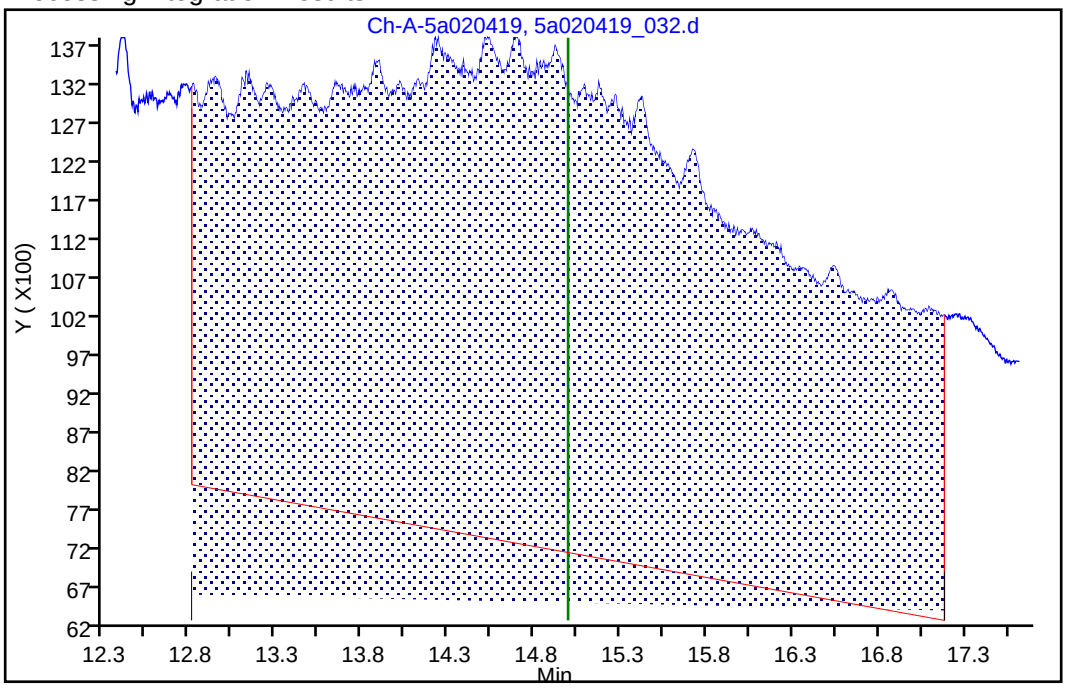
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Injection Date:	05-Feb-2019 00:41:37	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-9-D	Lab Sample ID:	720-90961-9		
Client ID:	DG-AB13S-13.5-14				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.995, CAS: STL00158

Signal: 1

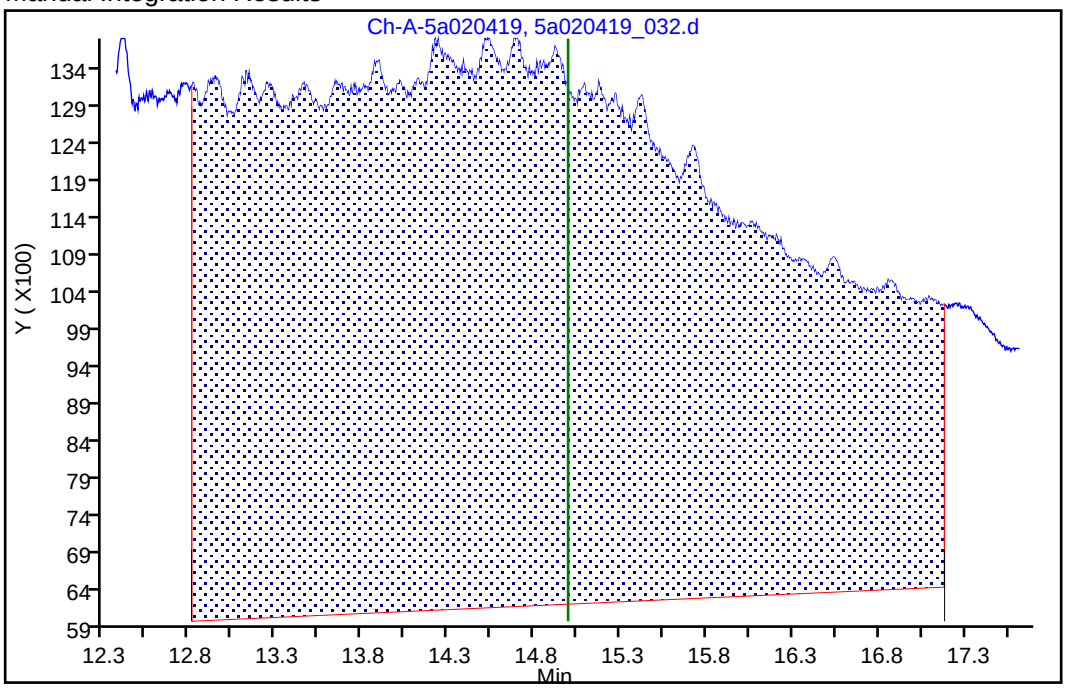
Processing Integration Results

RT: 15.00
Response: 6805506
Amount: 1117.1007



Manual Integration Results

RT: 15.00
Response: 8091255
Amount: 1328.1520



Reviewer: luj, 05-Feb-2019 12:28:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

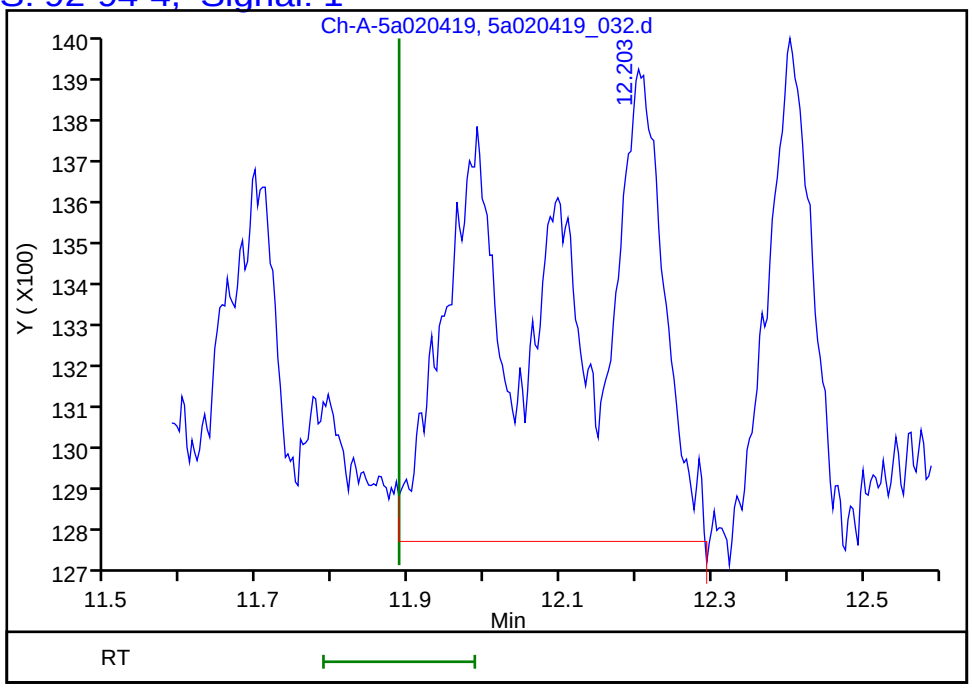
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_032.d				
Injection Date:	05-Feb-2019 00:41:37	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-9-D	Lab Sample ID:	720-90961-9		
Client ID:	DG-AB13S-13.5-14				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 12.20
Response: 62708
Amount: 5.258571



Reviewer: luj, 05-Feb-2019 12:28:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_033.d
Lims ID: 720-90961-E-10-D
Client ID: DG-AA15S-0.5-1
Sample Type: Client
Inject. Date: 05-Feb-2019 01:11:10 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 011 Name: 720-0056421-033
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:29:01 Calib Date: 04-Feb-2019 09:47:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:29:01

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.502			ND	
	23 n-Decane	3.792	3.751	0.041	342	NC	
A	1 C9-C13	4.492	(2.502-6.482)		2422	NC	
A	21 Stoddard Solvent	4.492	(2.502-6.482)		2422	NC	
A	57 C10-C12	4.714	(3.751-5.677)		1130	0.1153	
	24 Dodecane		5.677			ND	
A	3 C9 - C17	5.856	(2.502-9.211)		11287	0.9312	
A	47 C9 - C18	6.153	(2.502-9.805)		538526	50.0	
A	60 C10-C16	6.162	(3.751-8.573)		10493	0.9520	
A	15 Kerosene	6.422	(2.502-10.342)		926032	85.9	
A	25 C9-C19	6.422	(2.502-10.342)		926032	75.9	
	26 C13	6.485	6.482	0.003	1387	NC	
A	59 C12-C16	7.125	(5.677-8.573)		9363	0.9553	
$	27 n-Decanoic Acid (Surr)		7.135			ND	U
A	62 C10-C20	7.314	(3.751-10.878)		1595686	162.8	
A	28 C9-C24	7.654	(2.502-12.806)		2964211	302.4	M
A	29 C9-C25	7.872	(2.502-13.242)		2964211	302.4	M
A	54 C10-C23	8.051	(3.751-12.352)		2655042	270.9	
A	4 C10-C24	8.278	(3.751-12.806)		2963417	302.4	M
A	16 C10-C25	8.496	(3.751-13.242)		2963417	302.4	M
	45 Hexadecane		8.573			ND	
A	14 C10-C26	8.706	(3.751-13.662)		2963417	302.4	M
A	67 C12-C22	8.779	(5.677-11.881)		1996081	203.7	
A	12 Unknown Hydrocarbons	9.105	(3.751-14.460)		5169190	NC	M
A	32 C10-C28	9.105	(3.751-14.460)		5169190	527.4	M
A	5 Diesel	9.105	(3.751-14.460)		5169190	527.4	M
A	30 C13-C22	9.182	(6.482-11.881)		1995583	203.6	
	44 Heptadecane	9.218	9.211	0.007	527239	NC	
A	31 C12-C24	9.241	(5.677-12.806)		2962287	302.2	M
	49 n-Octadecane	9.822	9.805	0.017	387506	NC	
A	9 Crude Oil Range Organics (	9.843	(2.502-17.185)		11181172	NC	
A	52 Mineral oil	9.843	(2.502-17.185)		11181172	973.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.843	(2.502-17.185)		10179907	NC	M
33 C19		10.342			ND	
A 17 C10-C36	10.468	(3.751-17.185)		10179113	1038.6	M
A 64 C13-C28	10.471	(6.482-14.460)		5167562	527.2	M
A 13 C9-C40	10.603	(2.502-18.703)		13025873	1616.7	
A 68 Crude Oil Range Organics (	10.603	(2.502-18.703)		13025873	NC	
A 58 C16-C24	10.689	(8.573-12.806)		2952924	301.3	M
61 icosane	10.889	10.878	0.011	303481	NC	
A 6 C10-C40	11.227	(3.751-18.703)		13023765	1616.7	
35 n-Docosane		11.881			ND	
$ 34 p-Terphenyl		11.887			ND	U
A 18 C12-C40	12.190	(5.677-18.703)		13015060	1615.9	
36 Tricosane	12.354	12.352	0.002	308375	NC	
A 66 C13-C40	12.593	(6.482-18.703)		13004785	1614.7	
37 n-Tetracosane		12.806			ND	
A 2 C16-C36 ORO	12.879	(8.573-17.185)		10876078	1433.0	
38 C25		13.242			ND	
A 19 C16-C40	13.638	(8.573-18.703)		12720779	1579.6	
46 n-Hexacosane		13.662			ND	
A 20 C19-C36	13.763	(10.342-17.185)		9318561	1080.0	
A 55 C23-C32	14.128	(12.352-15.904)		5737825	1206.6	
39 n-Octacosane		14.460			ND	
65 C29		14.838			ND	
A 7 Motor Oil	14.995	(12.806-17.185)		7261085	1191.9	
A 40 C24-C36	14.995	(12.806-17.185)		7261085	1191.9	
A 50 C25-C36	15.213	(13.242-17.185)		6827602	1180.1	
A 10 C22-C40	15.292	(11.881-18.703)		9825911	1175.3	
A 41 C23-C40	15.528	(12.352-18.703)		9413926	1147.9	
A 8 C24-C40	15.755	(12.806-18.703)		9002730	1131.7	
56 Dotriacontane		15.904			ND	
A 51 C28-C40	16.582	(14.460-18.703)		6900169	1223.3	
A 63 C29-C40	16.771	(14.838-18.703)		6139057	1212.1	
42 n-Hexatriacontane	17.227	17.185	0.042	3094752	NC	
43 C40		18.703			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

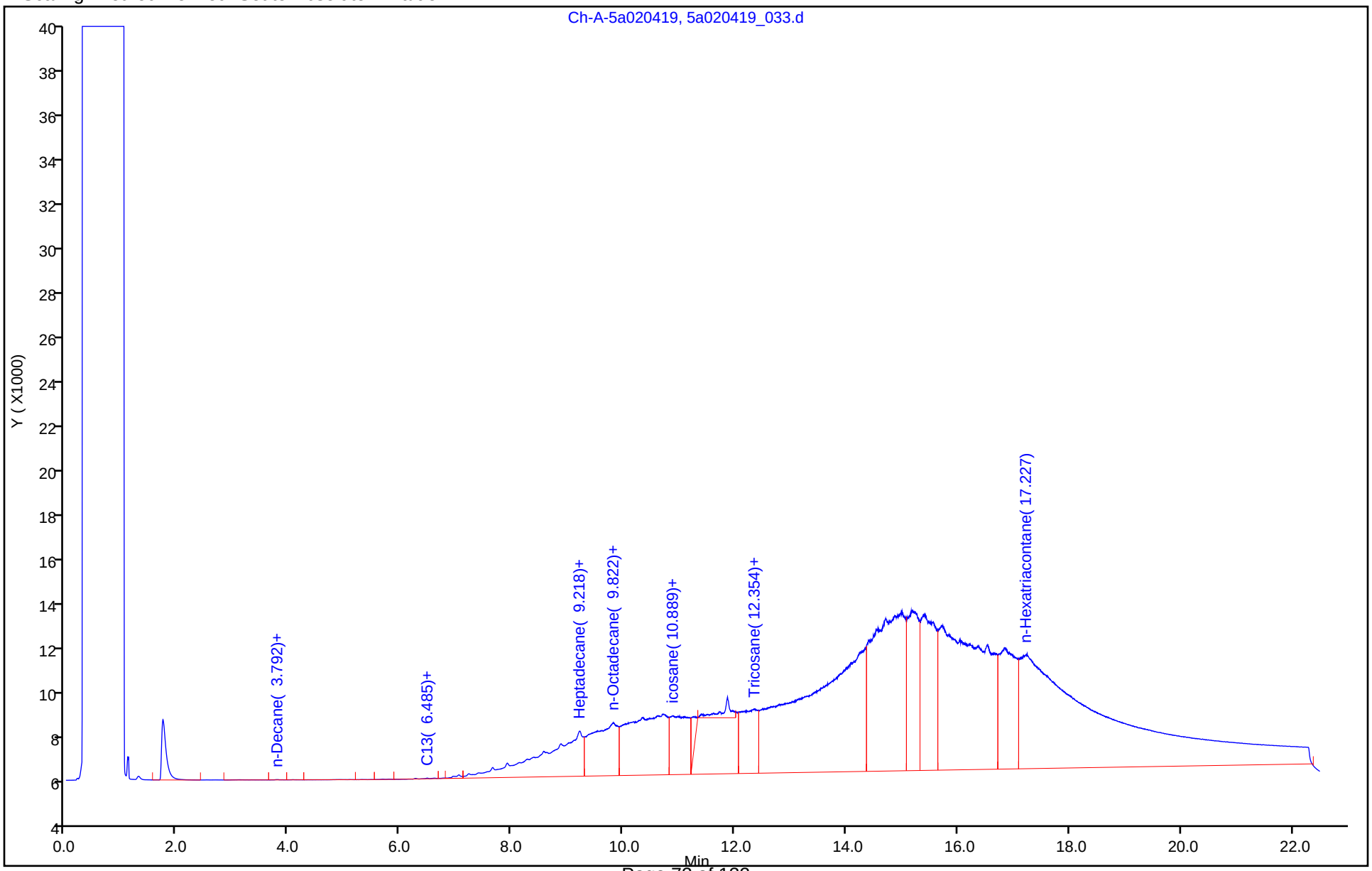
Report Date: 05-Feb-2019 12:29:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_033.d

Injection Date:	05-Feb-2019 01:11:10	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-10-D	Lab Sample ID:	720-90961-10	Worklist Smp#:	33
Client ID:	DG-AA15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

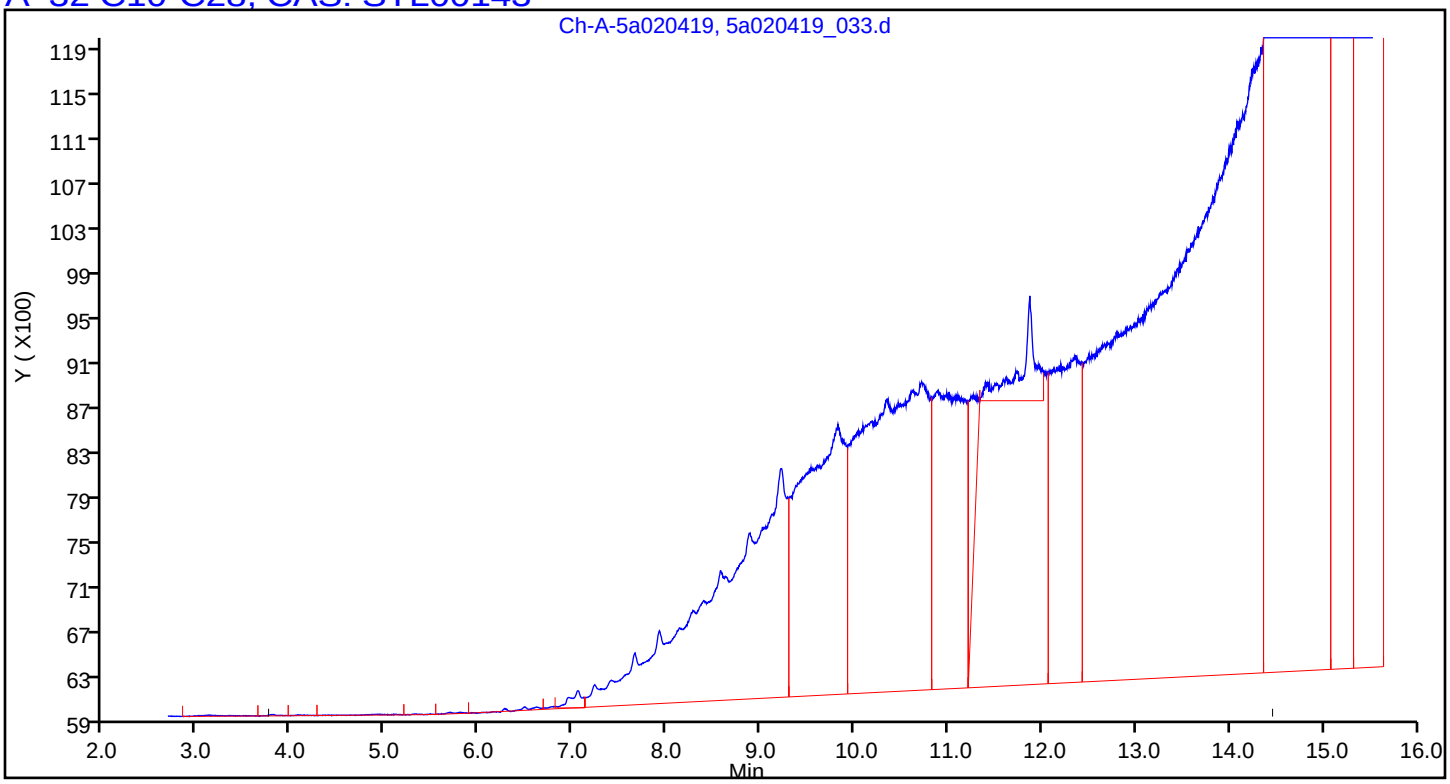


Report Date: 05-Feb-2019 12:29:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

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Injection Date:	05-Feb-2019 01:11:10	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-10-D	Lab Sample ID:	720-90961-10		
Client ID:	DG-AA15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

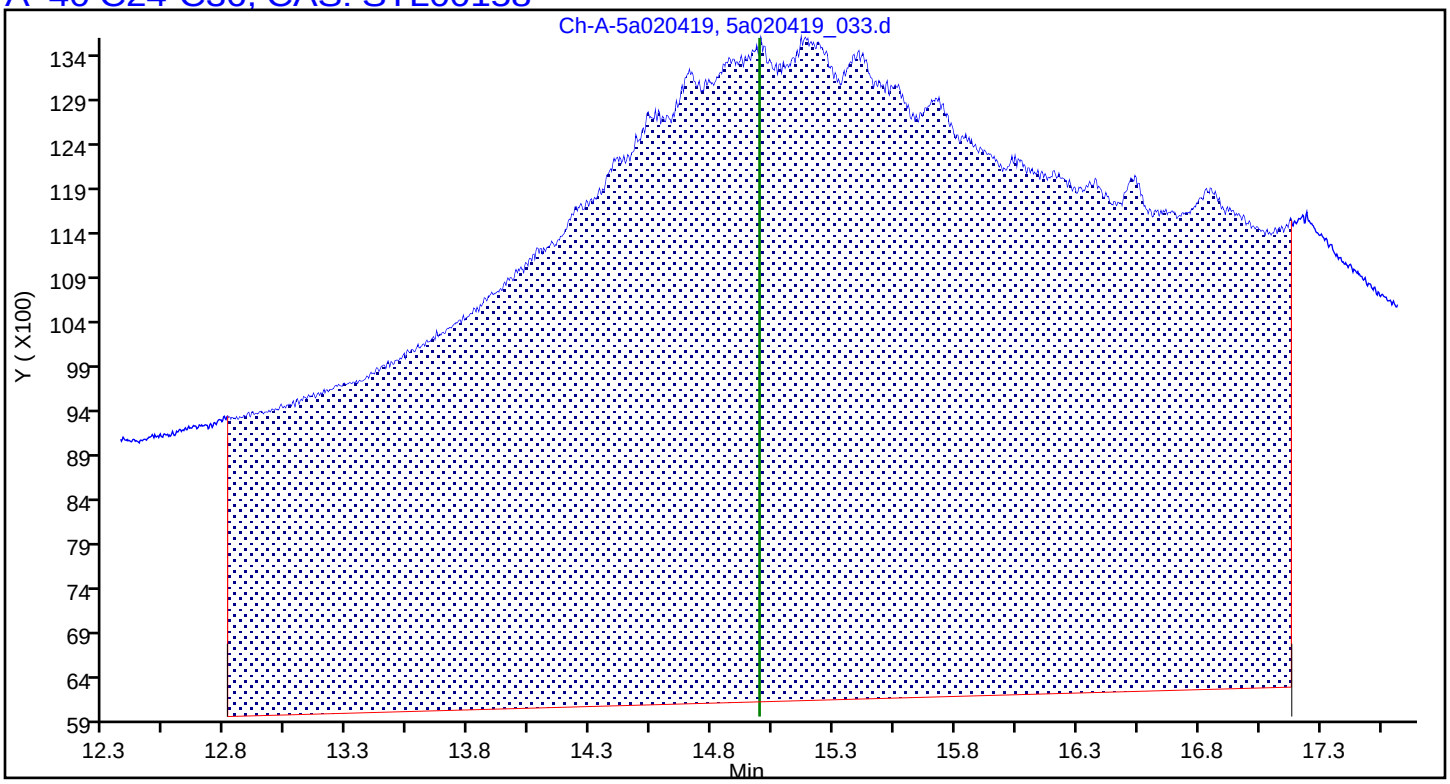


Report Date: 05-Feb-2019 12:29:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_033.d				
Injection Date:	05-Feb-2019 01:11:10	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-10-D	Lab Sample ID:	720-90961-10		
Client ID:	DG-AA15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

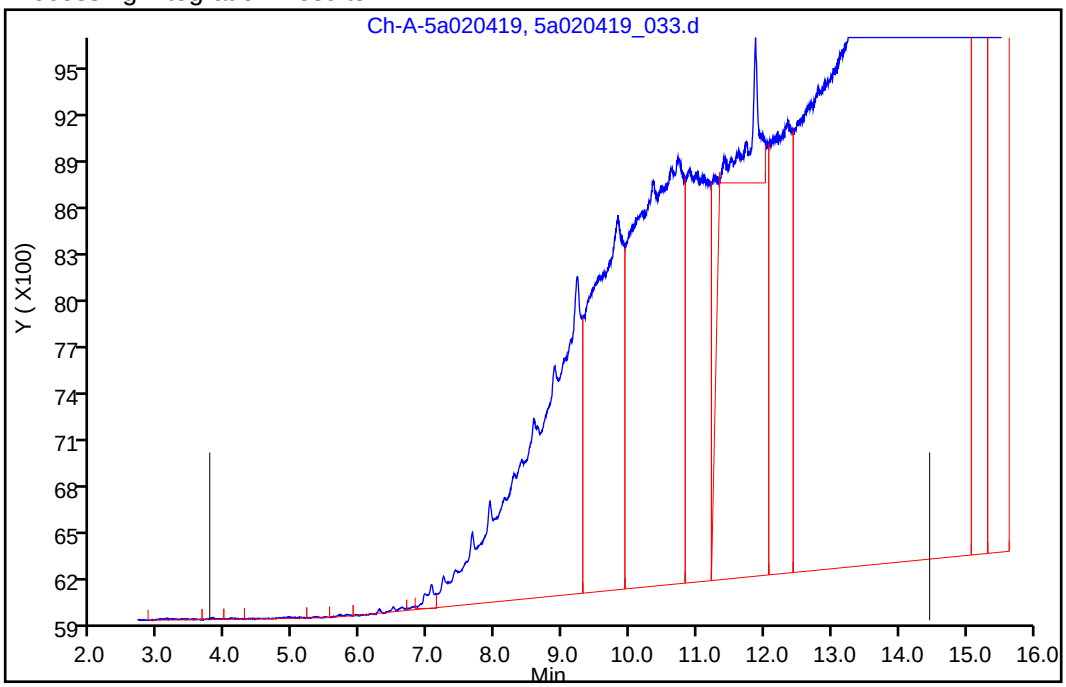
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Injection Date:	05-Feb-2019 01:11:10	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-10-D	Lab Sample ID:	720-90961-10		
Client ID:	DG-AA15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.105, CAS: STL00143

Signal: 1

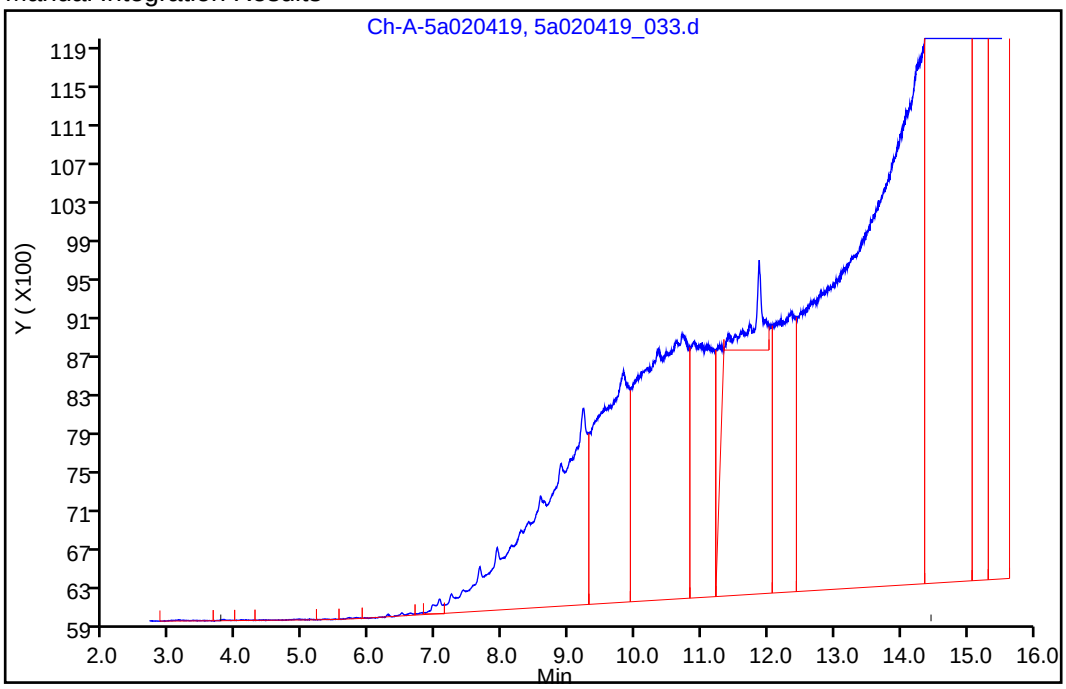
Processing Integration Results

RT: 9.11
Response: 2907982
Amount: 296.7022



Manual Integration Results

RT: 9.11
Response: 5169190
Amount: 527.4138



Reviewer: luj, 05-Feb-2019 12:28:51

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

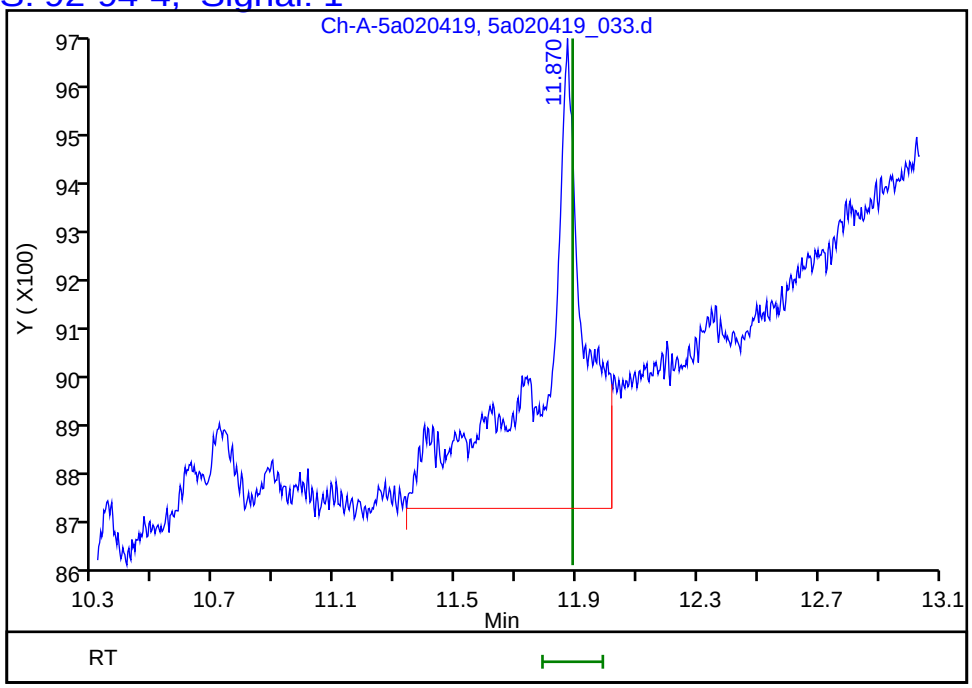
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190204-56421.b\5a020419_033.d

Injection Date:	05-Feb-2019 01:11:10	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-10-D	Lab Sample ID:	720-90961-10		
Client ID:	DG-AA15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.87
Response: 48658
Amount: 4.080365



Reviewer: luj, 05-Feb-2019 12:29:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_007.d
Lims ID: 720-90961-E-11-O
Client ID: DG-X13S-0.5-1
Sample Type: Client
Inject. Date: 01-Feb-2019 11:24:06 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 136 Name: 720-0056396-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\DRO5B.m
Limit Group: DRO
Last Update: 01-Feb-2019 12:21:07 Calib Date: 01-Feb-2019 09:14:15
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 01-Feb-2019 12:21:07

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.678	2.654	0.024	1016	NC	
	23 n-Decane	3.897	3.879	0.018	47466	NC	
A	21 Stoddard Solvent	4.610	(2.654-6.567)		83322	7.33	
A	1 C9-C13	4.610	(2.654-6.567)		83322	6.58	
A	57 C10-C12	4.823	(3.879-5.767)		65639	6.69	
	24 Dodecane	5.760	5.767	-0.007	2670	NC	
A	3 C9 - C17	5.962	(2.654-9.271)		325118	23.3	
A	47 C9 - C18	6.251	(2.654-9.848)		461941	41.2	
A	60 C10-C16	6.261	(3.879-8.643)		243439	19.8	
A	25 C9-C19	6.529	(2.654-10.404)		683763	48.9	
A	15 Kerosene	6.529	(2.654-10.404)		683763	60.8	
	26 C13		6.567			ND	
$	27 n-Decanoic Acid (Surr)		7.193			ND	U
A	59 C12-C16	7.205	(5.767-8.643)		180470	18.4	
A	62 C10-C20	7.408	(3.879-10.937)		1091746	111.2	
A	28 C9-C24	7.756	(2.654-12.858)		3528962	359.4	
A	29 C9-C25	7.973	(2.654-13.292)		4183165	426.1	
A	54 C10-C23	8.142	(3.879-12.406)		2493561	254.0	
A	4 C10-C24	8.368	(3.879-12.858)		3525077	359.0	
A	16 C10-C25	8.585	(3.879-13.292)		4179280	425.7	
	45 Hexadecane	8.639	8.643	-0.004	21314	NC	
A	14 C10-C26	8.795	(3.879-13.711)		5317653	541.6	
A	67 C12-C22	8.852	(5.767-11.937)		2050243	208.8	
A	12 Unknown Hydrocarbons	9.192	(3.879-14.505)		7515265	NC	
A	32 C10-C28	9.192	(3.879-14.505)		7515265	765.4	
A	5 Diesel	9.192	(3.879-14.505)		7515265	765.4	
A	30 C13-C22	9.252	(6.567-11.937)		2037309	207.5	
	44 Heptadecane	9.285	9.271	0.014	53109	NC	
A	31 C12-C24	9.312	(5.767-12.858)		3462108	352.6	
	49 n-Octadecane		9.848			ND	
A	11 Bunker Range Organics (C9-	9.935	(2.654-17.217)		17899558	NC	
A	9 Crude Oil Range Organics (	9.935	(2.654-17.217)		15749690	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.935	(2.654-17.217)		15749690	1411.1	
33 C19	10.413	10.404	0.009	117410	NC	
A 64 C13-C28	10.536	(6.567-14.505)		7439362	757.7	
A 17 C10-C36	10.548	(3.879-17.217)		17895673	1822.7	
A 68 Crude Oil Range Organics (	10.701	(2.654-18.749)		17721944	NC	
A 13 C9-C40	10.701	(2.654-18.749)		17721944	2278.2	
A 58 C16-C24	10.750	(8.643-12.858)		3302952	336.4	
61 icosane		10.937			ND	
A 6 C10-C40	11.314	(3.879-18.749)		17703653	2276.0	
$ 34 p-Terphenyl		11.910			ND	U
35 n-Docosane		11.937			ND	
A 18 C12-C40	12.258	(5.767-18.749)		17620671	2265.6	
36 Tricosane		12.406			ND	
A 66 C13-C40	12.658	(6.567-18.749)		16924310	2180.1	
37 n-Tetracosane	12.879	12.858	0.021	306158	NC	
A 2 C16-C36 ORO	12.930	(8.643-17.217)		12380426	1735.4	
38 C25		13.292			ND	
A 19 C16-C40	13.696	(8.643-18.749)		17347652	2233.7	
46 n-Hexacosane		13.711			ND	
A 20 C19-C36	13.810	(10.404-17.217)		13491929	1730.3	
A 55 C23-C32	14.175	(12.406-15.944)		8931712	2174.5	
39 n-Octacosane	14.454	14.505	-0.051	474595	NC	
65 C29	14.898	14.882	0.016	478238	NC	
A 7 Motor Oil	15.037	(12.858-17.217)		11076454	1940.4	
A 40 C24-C36	15.037	(12.858-17.217)		11245315	1970.0	M
A 50 C25-C36	15.254	(13.292-17.217)		10271257	1908.6	
A 10 C22-C40	15.343	(11.937-18.749)		14208175	1793.5	
A 41 C23-C40	15.577	(12.406-18.749)		13564152	1754.5	
A 8 C24-C40	15.803	(12.858-18.749)		12842398	1721.8	
56 Dotriacontane		15.944			ND	
A 51 C28-C40	16.627	(14.505-18.749)		9060242	1850.0	
A 63 C29-C40	16.815	(14.882-18.749)		7872765	1809.0	
42 n-Hexatriacontane		17.217			ND	
43 C40		18.749			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

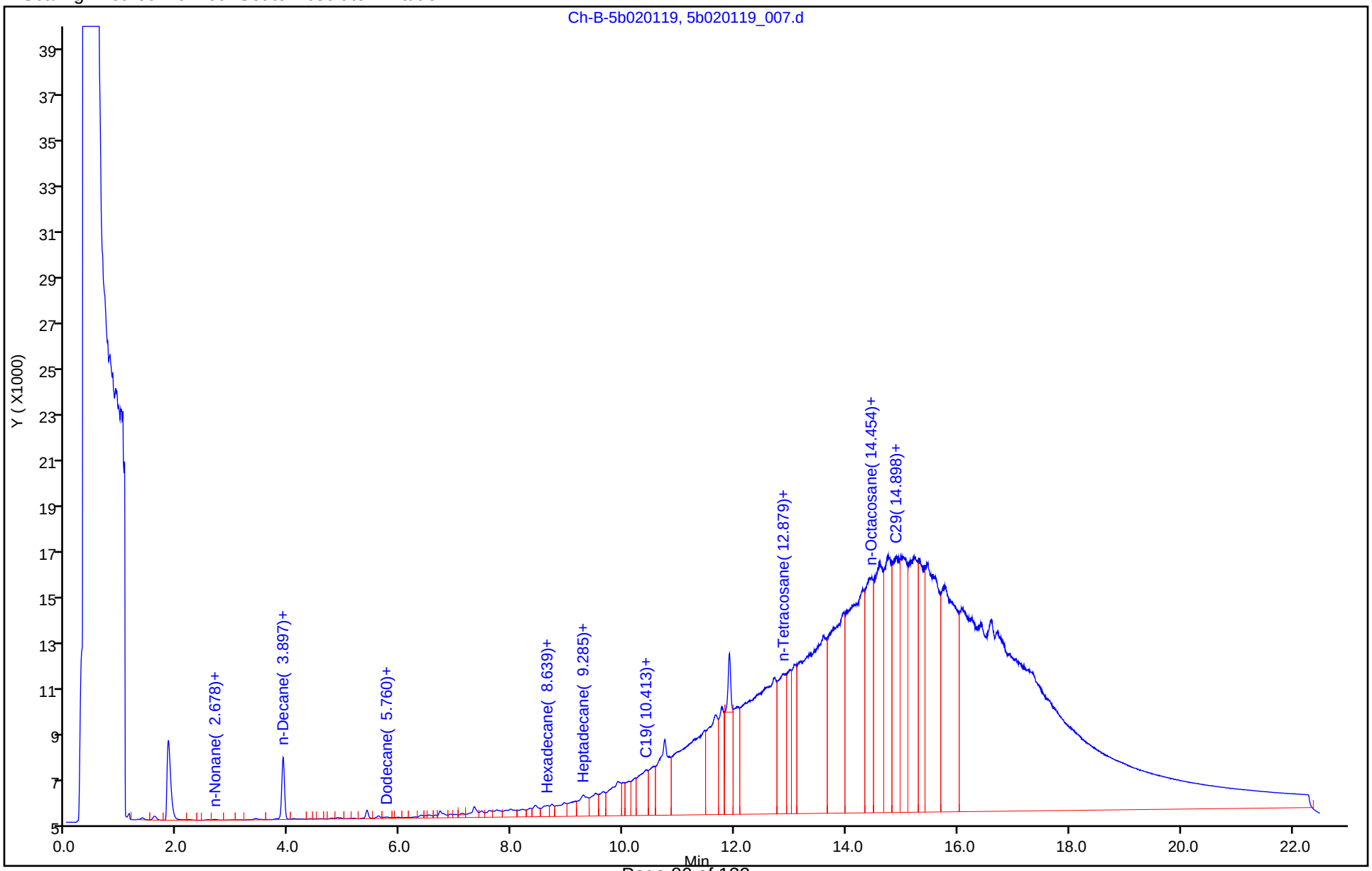
Report Date: 01-Feb-2019 12:21:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_007.d

Injection Date:	01-Feb-2019 11:24:06	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-11-O	Lab Sample ID:	720-90961-11	Worklist Smp#:	7
Client ID:	DG-X13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

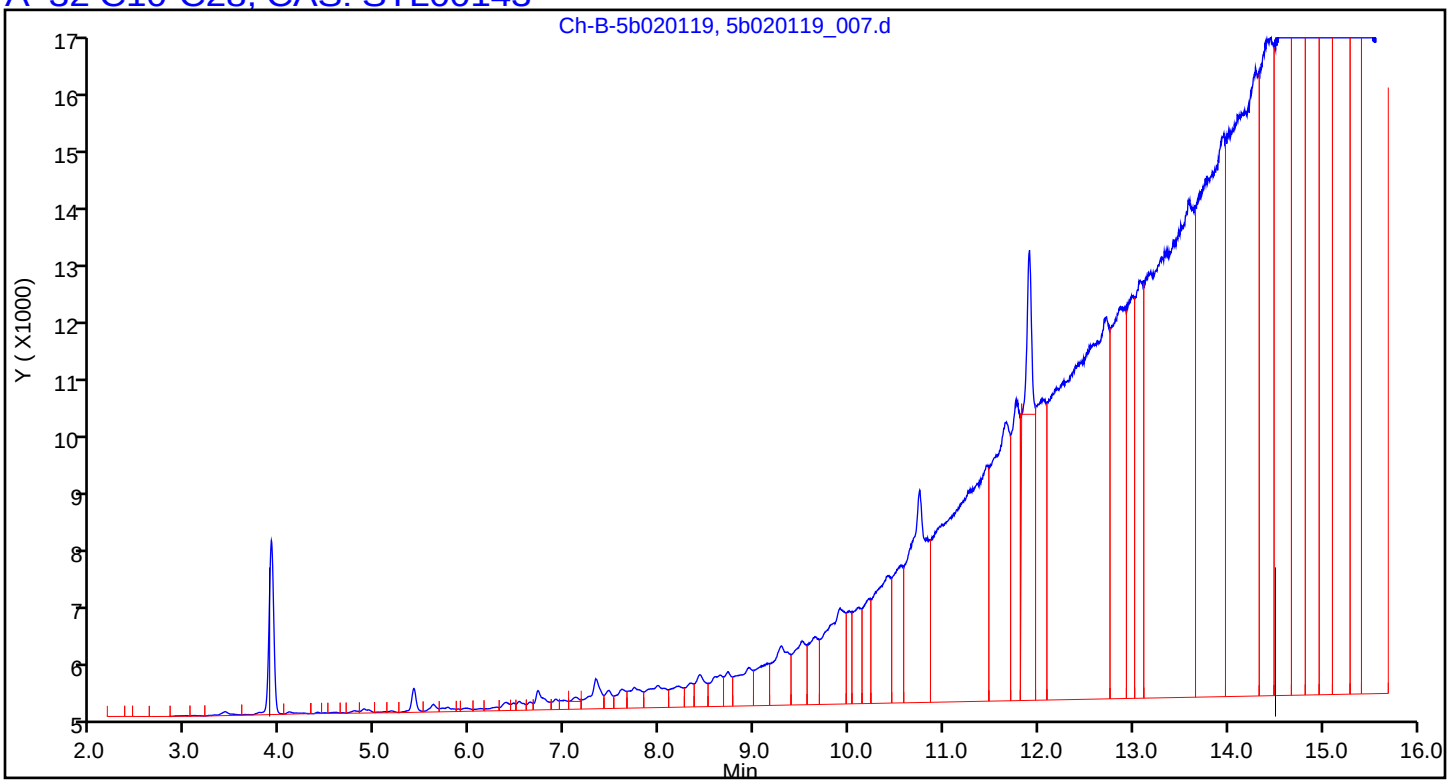


Report Date: 01-Feb-2019 12:21:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_007.d				
Injection Date:	01-Feb-2019 11:24:06	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-11-O	Lab Sample ID:	720-90961-11		
Client ID:	DG-X13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

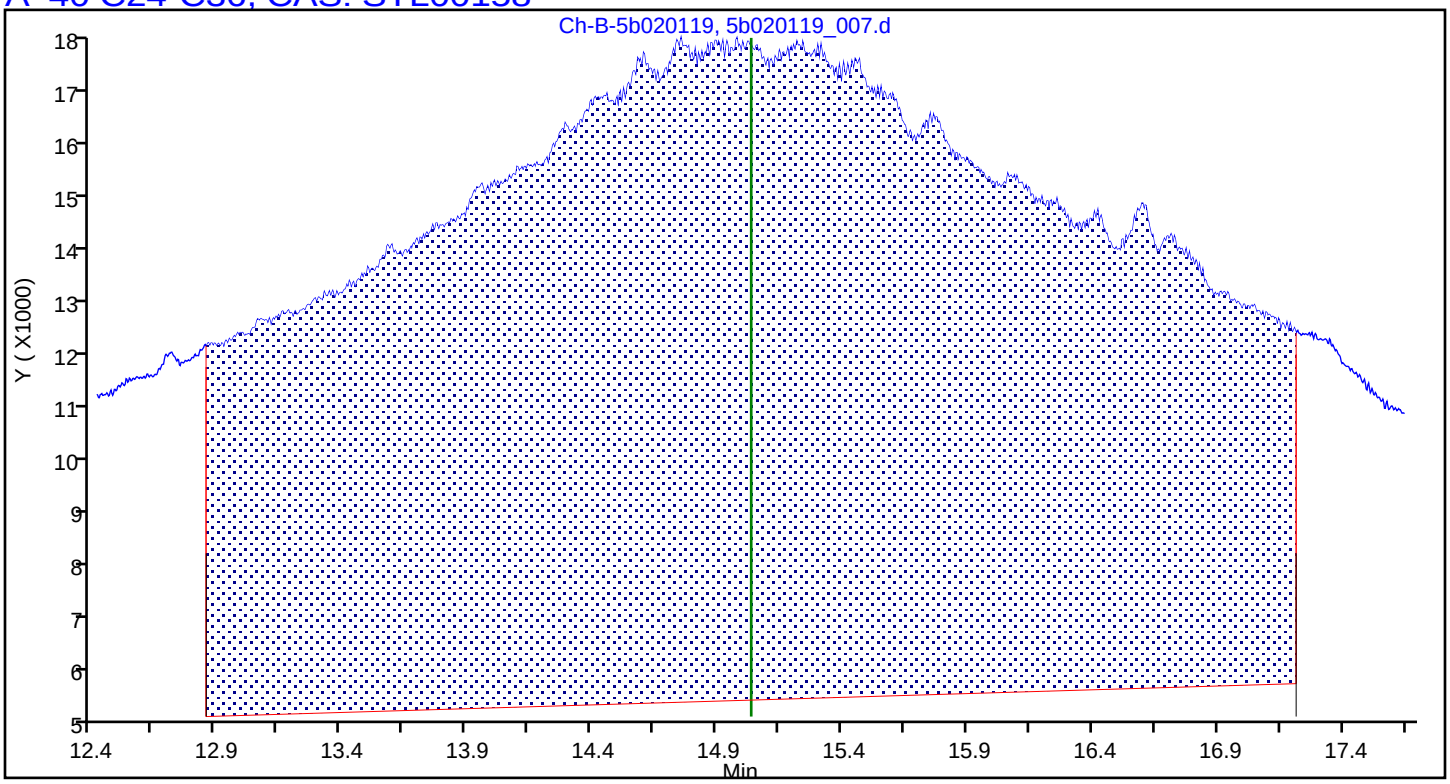


Report Date: 01-Feb-2019 12:21:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_007.d				
Injection Date:	01-Feb-2019 11:24:06	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-11-O	Lab Sample ID:	720-90961-11		
Client ID:	DG-X13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

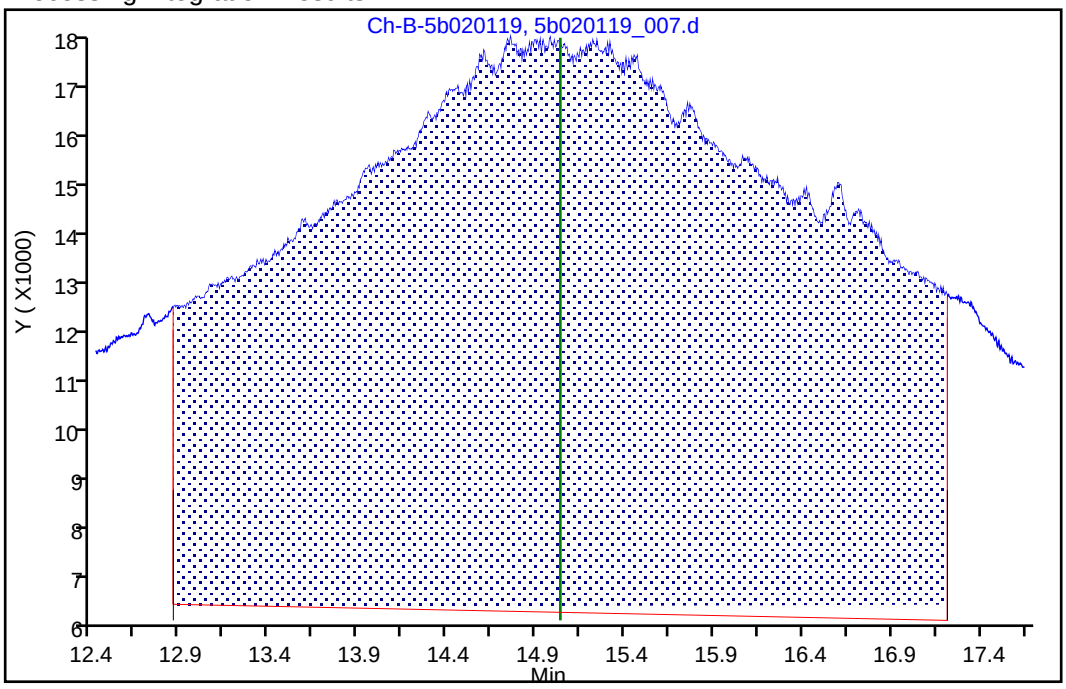
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Injection Date:	01-Feb-2019 11:24:06	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-11-O	Lab Sample ID:	720-90961-11		
Client ID:	DG-X13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.037, CAS: STL00158

Signal: 1

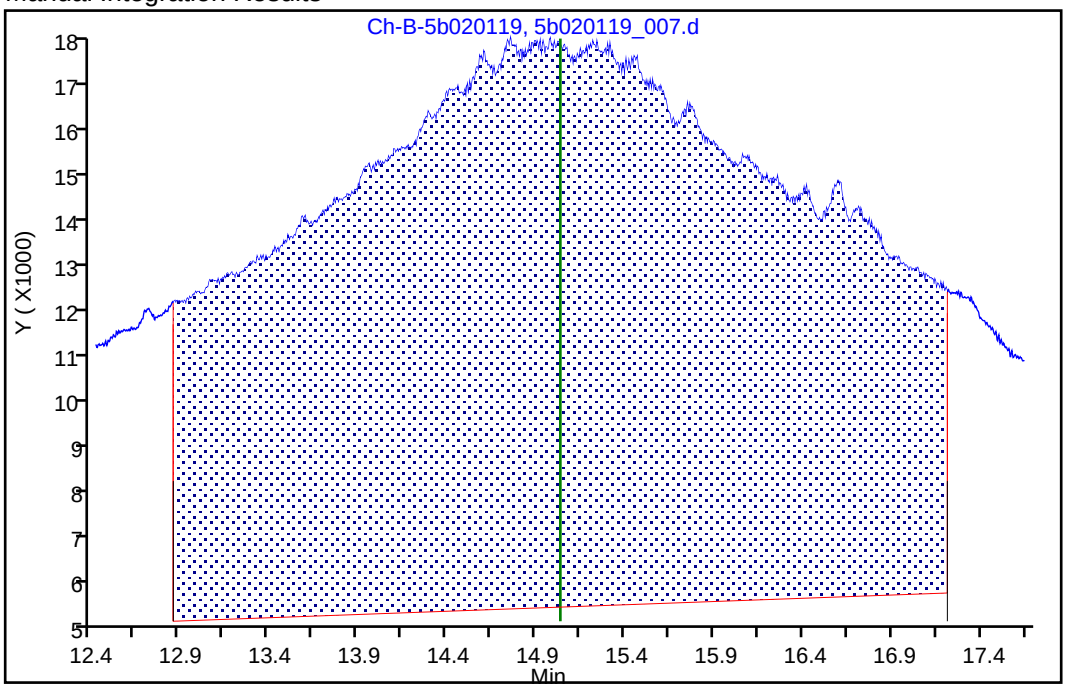
Processing Integration Results

RT: 15.04
Response: 11076454
Amount: 1940.4374



Manual Integration Results

RT: 15.04
Response: 11245315
Amount: 1970.0194



Reviewer: luj, 01-Feb-2019 12:20:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

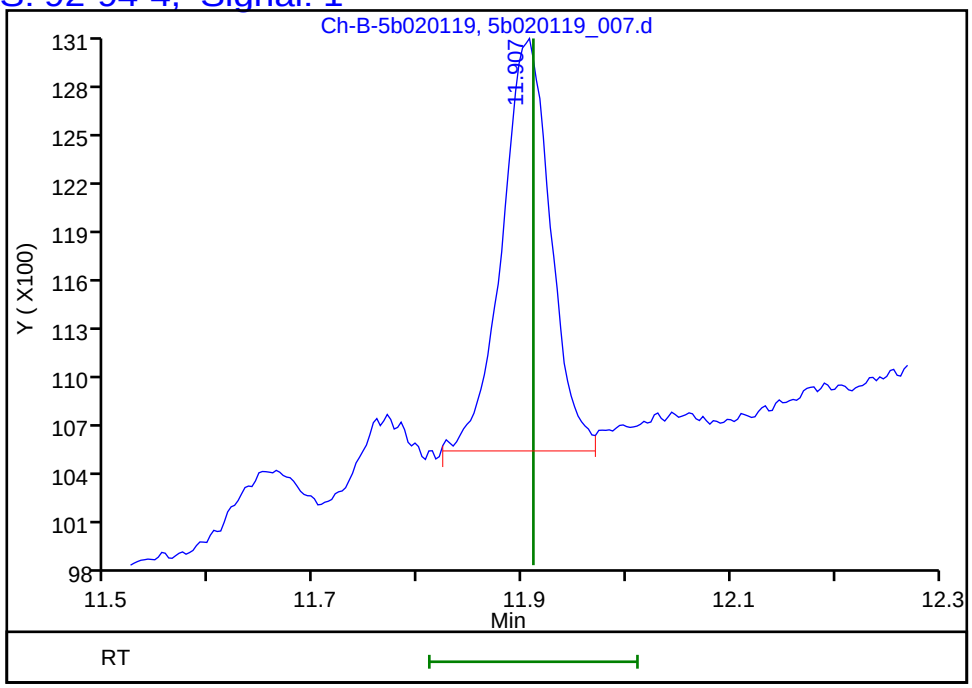
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_007.d

Injection Date:	01-Feb-2019 11:24:06	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-11-O	Lab Sample ID:	720-90961-11		
Client ID:	DG-X13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 41034
Amount: 3.572666



Reviewer: luj, 01-Feb-2019 12:21:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_009.d
Lims ID: 720-90961-E-12-D
Client ID: DUP-77
Sample Type: Client
Inject. Date: 05-Feb-2019 12:49:11 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056440-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 13:38:03 Calib Date: 05-Feb-2019 09:42:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 13:38:03

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.511			ND	
	23 n-Decane	3.782	3.756	0.026	1414	NC	
A	1 C9-C13	4.496	(2.511-6.481)		198288	NC	
A	21 Stoddard Solvent	4.496	(2.511-6.481)		198288	NC	
A	57 C10-C12	4.716	(3.756-5.677)		7766	0.7924	
	24 Dodecane	5.683	5.677	0.006	901	NC	
A	3 C9 - C17	5.859	(2.511-9.207)		254951	21.0	
A	47 C9 - C18	6.155	(2.511-9.799)		283269	26.3	
A	60 C10-C16	6.162	(3.756-8.569)		48115	4.37	
A	15 Kerosene	6.424	(2.511-10.337)		348288	32.3	
A	25 C9-C19	6.424	(2.511-10.337)		348288	28.5	
	26 C13	6.455	6.481	-0.026	4709	NC	
A	59 C12-C16	7.123	(5.677-8.569)		40349	4.12	
$	27 n-Decanoic Acid (Surr)		7.132			ND	
A	62 C10-C20	7.314	(3.756-10.872)		401853	41.0	
A	28 C9-C24	7.655	(2.511-12.800)		1594775	162.7	
A	29 C9-C25	7.873	(2.511-13.236)		1594775	162.7	
A	54 C10-C23	8.051	(3.756-12.347)		953053	97.2	
A	4 C10-C24	8.278	(3.756-12.800)		1409863	143.8	
A	16 C10-C25	8.496	(3.756-13.236)		1409863	143.8	
	45 Hexadecane	8.575	8.569	0.006	9242	NC	
A	14 C10-C26	8.706	(3.756-13.656)		1686239	172.0	M
A	67 C12-C22	8.776	(5.677-11.875)		945287	96.4	
A	12 Unknown Hydrocarbons	9.104	(3.756-14.453)		2595954	NC	M
A	32 C10-C28	9.104	(3.756-14.453)		2595954	264.9	M
A	5 Diesel	9.104	(3.756-14.453)		2595954	264.9	M
A	30 C13-C22	9.178	(6.481-11.875)		944386	96.4	
	44 Heptadecane	9.219	9.207	0.012	28318	NC	
A	31 C12-C24	9.239	(5.677-12.800)		1402097	143.1	
	49 n-Octadecane	9.824	9.799	0.025	65019	NC	
A	9 Crude Oil Range Organics (	9.844	(2.511-17.177)		6235466	NC	
A	52 Mineral oil	9.844	(2.511-17.177)		6235466	542.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.844	(2.511-17.177)		5667057	NC	M
33 C19		10.337			ND	
A 17 C10-C36	10.466	(3.756-17.177)		5482145	559.3	M
A 64 C13-C28	10.467	(6.481-14.453)		2587287	264.0	M
A 13 C9-C40	10.600	(2.511-18.689)		7473562	909.1	
A 68 Crude Oil Range Organics (	10.600	(2.511-18.689)		7473562	NC	
A 58 C16-C24	10.685	(8.569-12.800)		1361748	138.9	
61 icosane		10.872			ND	
A 6 C10-C40	11.222	(3.756-18.689)		7469809	908.9	
$ 34 p-Terphenyl	11.860	11.864	-0.004	299612	25.1	M
35 n-Docosane		11.875			ND	
A 18 C12-C40	12.183	(5.677-18.689)		7450252	906.9	
36 Tricosane	12.353	12.347	0.006	145437	NC	
A 66 C13-C40	12.585	(6.481-18.689)		7436347	905.3	
37 n-Tetracosane	12.797	12.800	-0.003	311373	NC	
A 2 C16-C36 ORO	12.873	(8.569-17.177)		6108401	804.9	
38 C25	13.245	13.236	0.009	276376	NC	
A 19 C16-C40	13.629	(8.569-18.689)		7346497	894.5	
46 n-Hexacosane		13.656			ND	
A 20 C19-C36	13.757	(10.337-17.177)		5478948	635.0	
A 55 C23-C32	14.122	(12.347-15.897)		3622488	761.8	
39 n-Octacosane	14.233	14.453	-0.220	909715	NC	M
65 C29	14.923	14.831	0.092	461250	NC	
A 7 Motor Oil	14.988	(12.800-17.177)		4434830	728.0	
A 40 C24-C36	14.988	(12.800-17.177)		4434830	728.0	
A 50 C25-C36	15.206	(13.236-17.177)		4143356	716.2	
A 10 C22-C40	15.282	(11.875-18.689)		5873916	702.6	
A 41 C23-C40	15.518	(12.347-18.689)		5857174	714.2	
A 8 C24-C40	15.745	(12.800-18.689)		5589390	702.6	
56 Dotriacontane		15.897			ND	
A 51 C28-C40	16.571	(14.453-18.689)		4212607	688.5	
A 63 C29-C40	16.760	(14.831-18.689)		3752071	676.2	
42 n-Hexatriacontane		17.177			ND	
43 C40		18.689			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

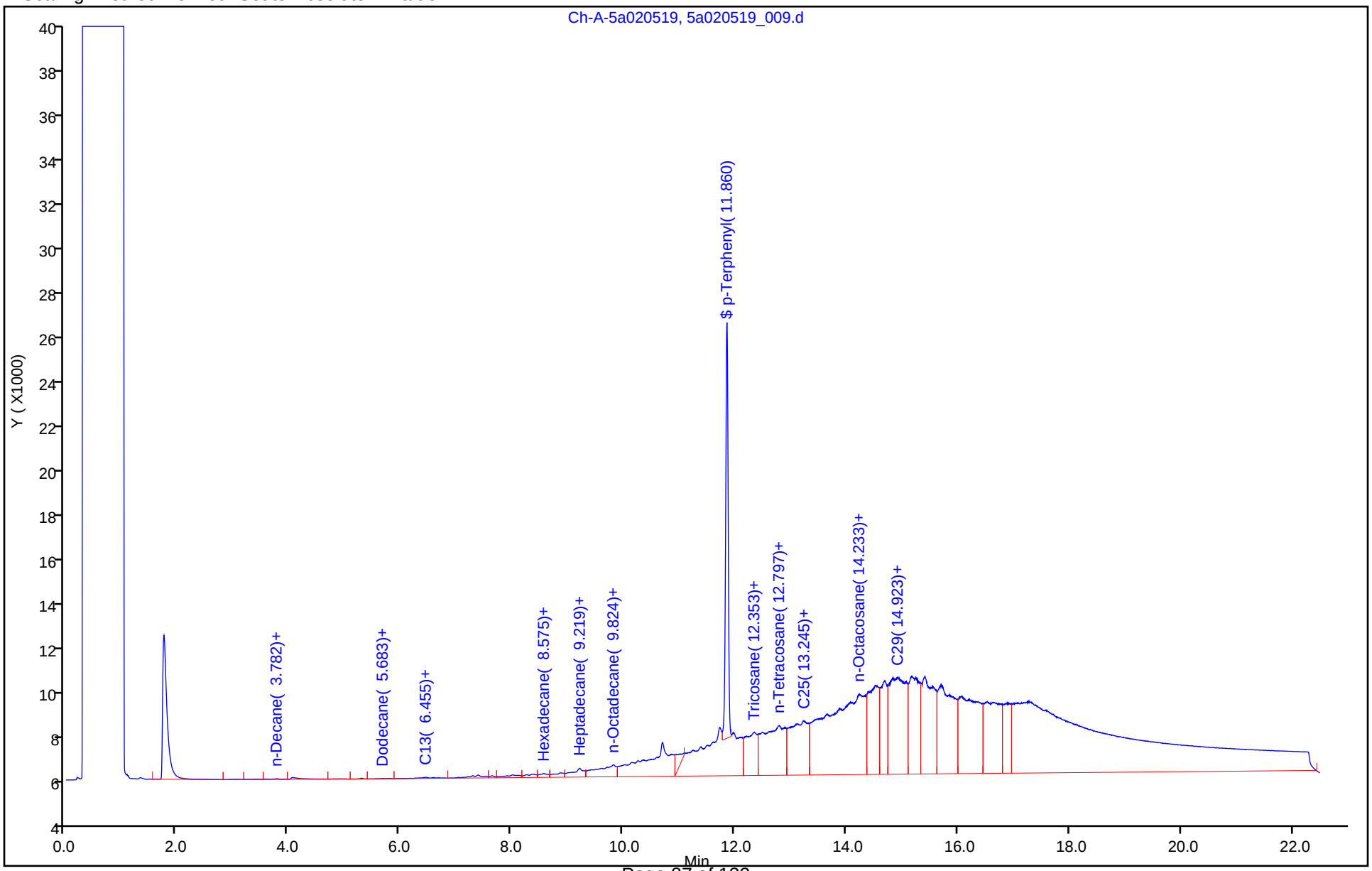
Report Date: 05-Feb-2019 13:38:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_009.d

Injection Date:	05-Feb-2019 12:49:11	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-12-D	Lab Sample ID:	720-90961-12	Worklist Smp#:	9
Client ID:	DUP-77				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_009.d				
Lims ID:	720-90961-E-12-D				
Client ID:	DUP-77				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 12:49:11	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056440-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 13:38:03	Calib Date:	05-Feb-2019 09:42:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 13:38:03

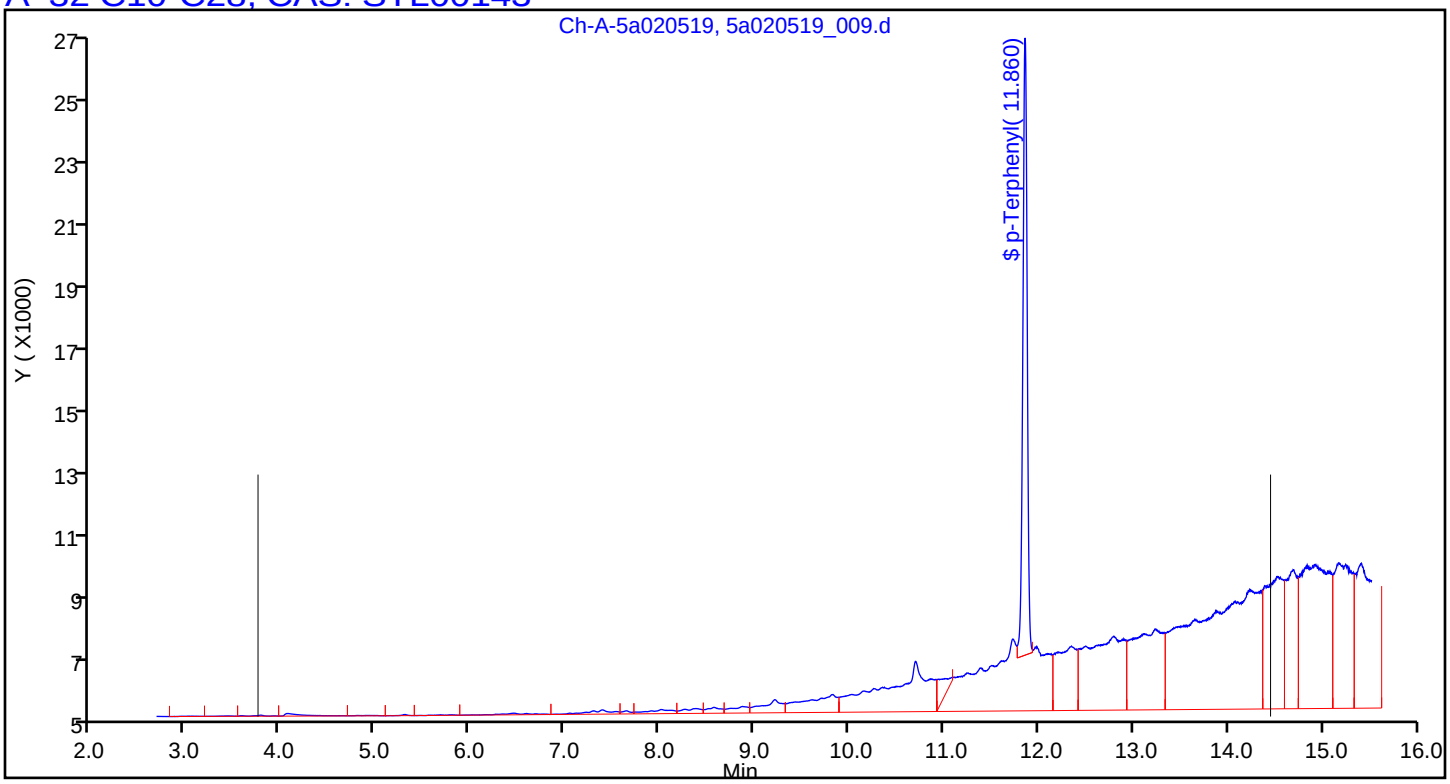
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.1	100.50

Report Date: 05-Feb-2019 13:38:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_009.d				
Injection Date:	05-Feb-2019 12:49:11	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-12-D	Lab Sample ID:	720-90961-12		
Client ID:	DUP-77				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

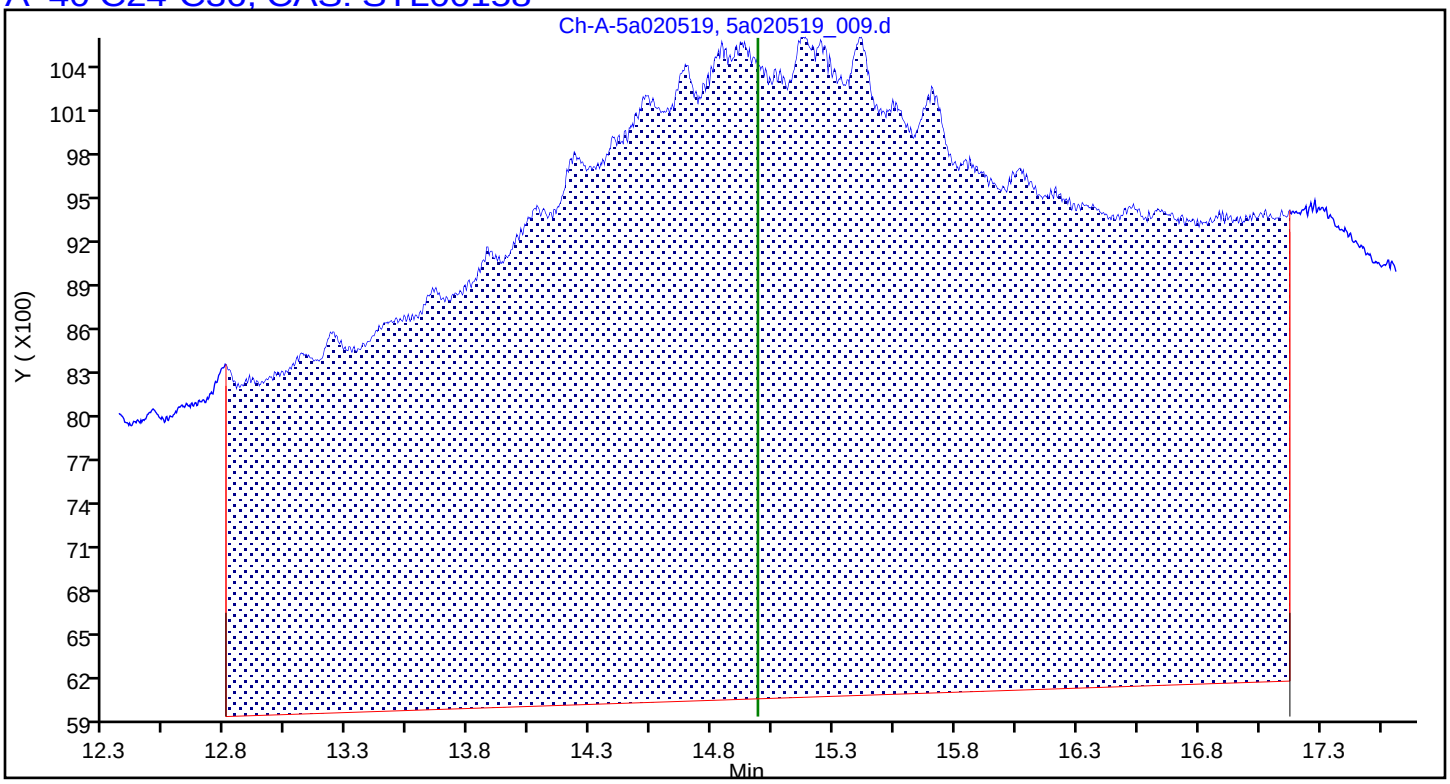


Report Date: 05-Feb-2019 13:38:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_009.d				
Injection Date:	05-Feb-2019 12:49:11	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-12-D	Lab Sample ID:	720-90961-12		
Client ID:	DUP-77				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

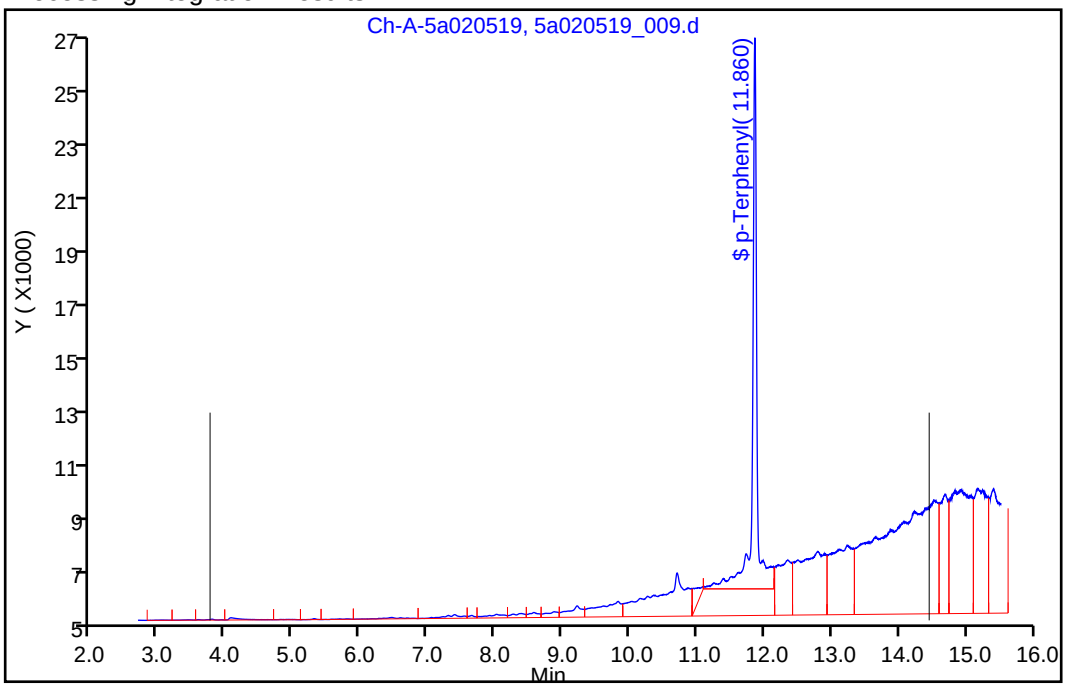
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_009.d				
Injection Date:	05-Feb-2019 12:49:11	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-12-D	Lab Sample ID:	720-90961-12		
Client ID:	DUP-77				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.104, CAS: STL00143

Signal: 1

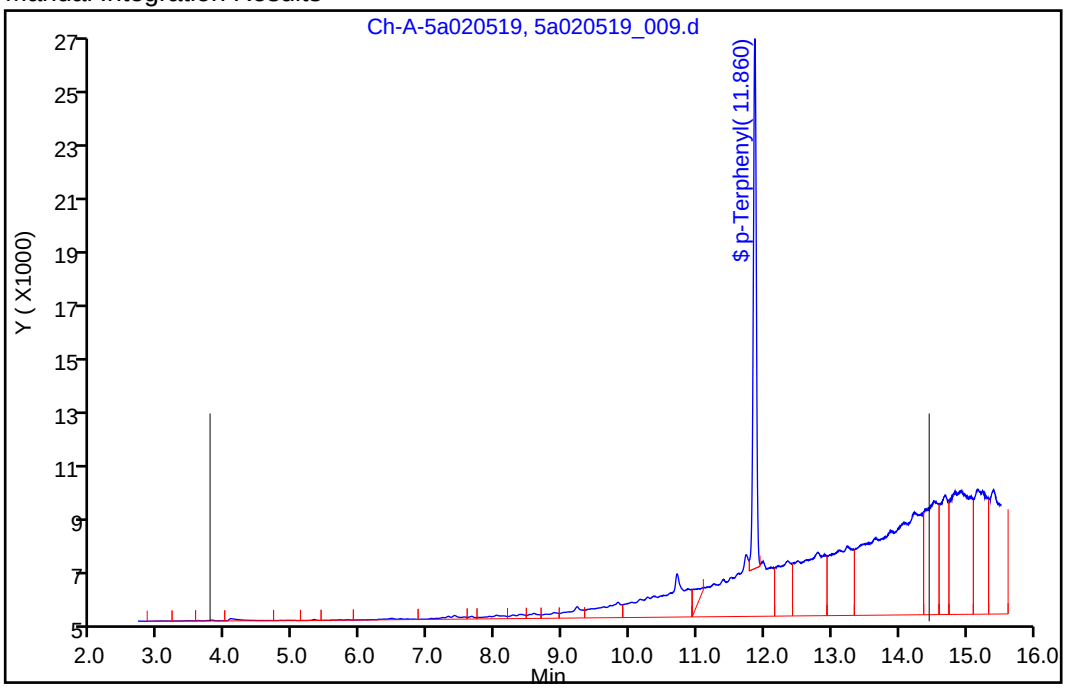
Processing Integration Results

RT: 9.10
Response: 1515742
Amount: 154.6516



Manual Integration Results

RT: 9.10
Response: 2595954
Amount: 264.8659



Reviewer: luj, 05-Feb-2019 13:27:40

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

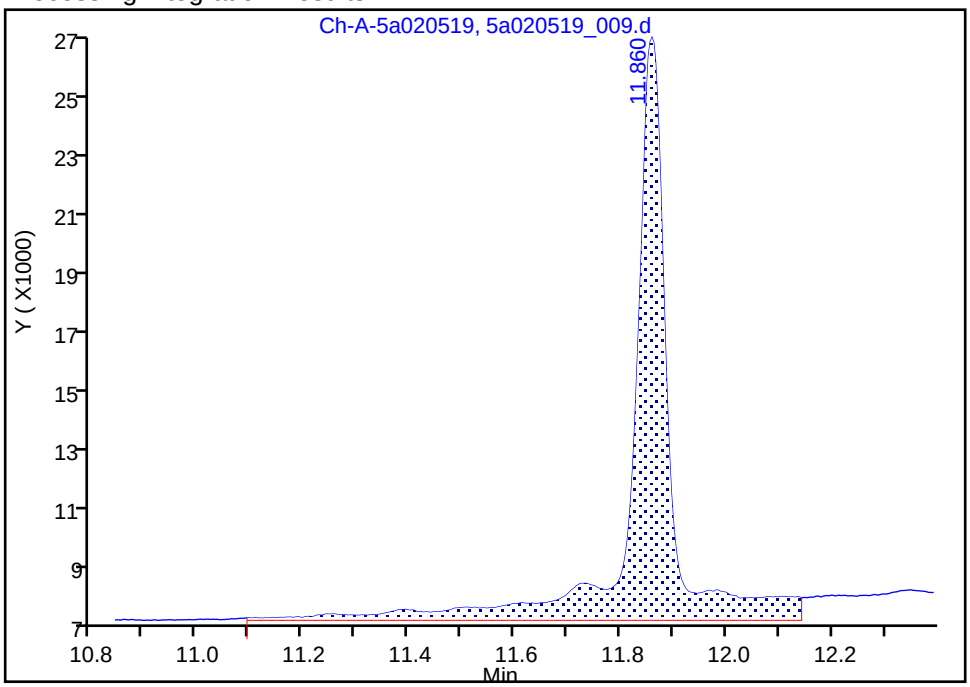
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_009.d				
Injection Date:	05-Feb-2019 12:49:11	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-12-D	Lab Sample ID:	720-90961-12		
Client ID:	DUP-77				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

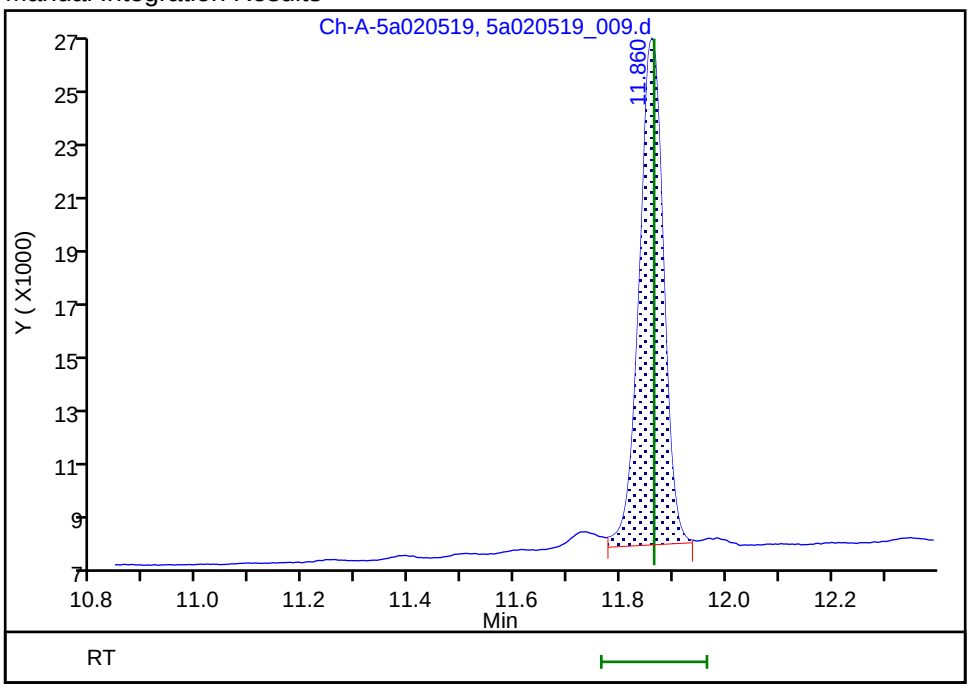
Processing Integration Results

RT: 11.86
Area: 470109
Amount: 39.422424
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 299612
Amount: 25.124878
Amount Units: mg/L



Reviewer: luj, 05-Feb-2019 13:37:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_007.d
Lims ID: 720-90961-E-13-D
Client ID: DG-X13S-3.5-4
Sample Type: Client
Inject. Date: 05-Feb-2019 11:51:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 3.0000
Sample Info: #: 037 Name: 720-0056440-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 12:50:10 Calib Date: 05-Feb-2019 09:42:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 12:50:10

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.511			ND	
	23 n-Decane	3.785	3.756	0.029	917	NC	
A	1 C9-C13	4.496	(2.511-6.481)		193633	NC	
A	21 Stoddard Solvent	4.496	(2.511-6.481)		193633	NC	
A	57 C10-C12	4.716	(3.756-5.677)		5177	0.5282	
	24 Dodecane		5.677			ND	
A	3 C9 - C17	5.859	(2.511-9.207)		631103	52.1	
A	47 C9 - C18	6.155	(2.511-9.799)		950802	88.3	
A	60 C10-C16	6.162	(3.756-8.569)		366643	33.3	
A	15 Kerosene	6.424	(2.511-10.337)		950802	88.2	
A	25 C9-C19	6.424	(2.511-10.337)		950802	77.9	
	26 C13		6.481			ND	
A	59 C12-C16	7.123	(5.677-8.569)		361466	36.9	
$	27 n-Decanoic Acid (Surr)		7.132			ND	
A	62 C10-C20	7.314	(3.756-10.872)		1414106	144.3	
A	28 C9-C24	7.655	(2.511-12.800)		2890932	295.0	
A	29 C9-C25	7.873	(2.511-13.236)		3453693	352.4	M
A	54 C10-C23	8.051	(3.756-12.347)		2406096	245.5	
A	4 C10-C24	8.278	(3.756-12.800)		2744670	280.0	
A	16 C10-C25	8.496	(3.756-13.236)		3307431	337.5	M
	45 Hexadecane		8.569			ND	
A	14 C10-C26	8.706	(3.756-13.656)		3307431	337.5	M
A	67 C12-C22	8.776	(5.677-11.875)		2400919	245.0	
A	12 Unknown Hydrocarbons	9.104	(3.756-14.453)		4540684	NC	M
A	32 C10-C28	9.104	(3.756-14.453)		4540684	463.3	M
A	5 Diesel	9.104	(3.756-14.453)		4540684	463.3	M
A	30 C13-C22	9.178	(6.481-11.875)		2400919	245.0	
	44 Heptadecane		9.207			ND	
A	31 C12-C24	9.239	(5.677-12.800)		2739493	279.5	
	49 n-Octadecane		9.799			ND	
A	9 Crude Oil Range Organics (	9.844	(2.511-17.177)		7958232	NC	
A	52 Mineral oil	9.844	(2.511-17.177)		7958232	692.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.844	(2.511-17.177)		9342205	NC	M
33 C19		10.337			ND	
A 17 C10-C36	10.466	(3.756-17.177)		9195943	938.3	M
A 64 C13-C28	10.467	(6.481-14.453)		4535507	462.8	M
A 13 C9-C40	10.600	(2.511-18.689)		8922712	1093.8	
A 68 Crude Oil Range Organics (	10.600	(2.511-18.689)		8922712	NC	
A 58 C16-C24	10.685	(8.569-12.800)		2378027	242.6	
61 icosane		10.872			ND	
A 6 C10-C40	11.222	(3.756-18.689)		8920396	1093.8	
$ 34 p-Terphenyl	11.863	11.864	-0.001	89799	7.53	M
35 n-Docosane		11.875			ND	
A 18 C12-C40	12.183	(5.677-18.689)		8897223	1091.2	
36 Tricosane		12.347			ND	
A 66 C13-C40	12.585	(6.481-18.689)		8849516	1085.3	
37 n-Tetracosane		12.800			ND	
A 2 C16-C36 ORO	12.873	(8.569-17.177)		7475848	985.0	
38 C25		13.236			ND	
A 19 C16-C40	13.629	(8.569-18.689)		8440328	1034.0	
46 n-Hexacosane		13.656			ND	
A 20 C19-C36	13.757	(10.337-17.177)		6157893	713.7	
A 55 C23-C32	14.122	(12.347-15.897)		4023584	846.1	
39 n-Octacosane	14.310	14.453	-0.143	1233253	NC	M
65 C29	14.921	14.831	0.090	438347	NC	
A 7 Motor Oil	14.988	(12.800-17.177)		4453367	731.0	
A 40 C24-C36	14.988	(12.800-17.177)		4453367	731.0	
A 50 C25-C36	15.206	(13.236-17.177)		4069784	703.4	
A 10 C22-C40	15.282	(11.875-18.689)		5979152	715.2	
A 41 C23-C40	15.518	(12.347-18.689)		5671986	691.6	
A 8 C24-C40	15.745	(12.800-18.689)		5297764	665.9	
56 Dotriacontane		15.897			ND	
A 51 C28-C40	16.571	(14.453-18.689)		3658636	587.7	
A 63 C29-C40	16.760	(14.831-18.689)		3182977	560.9	
42 n-Hexatriacontane		17.177			ND	
43 C40		18.689			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

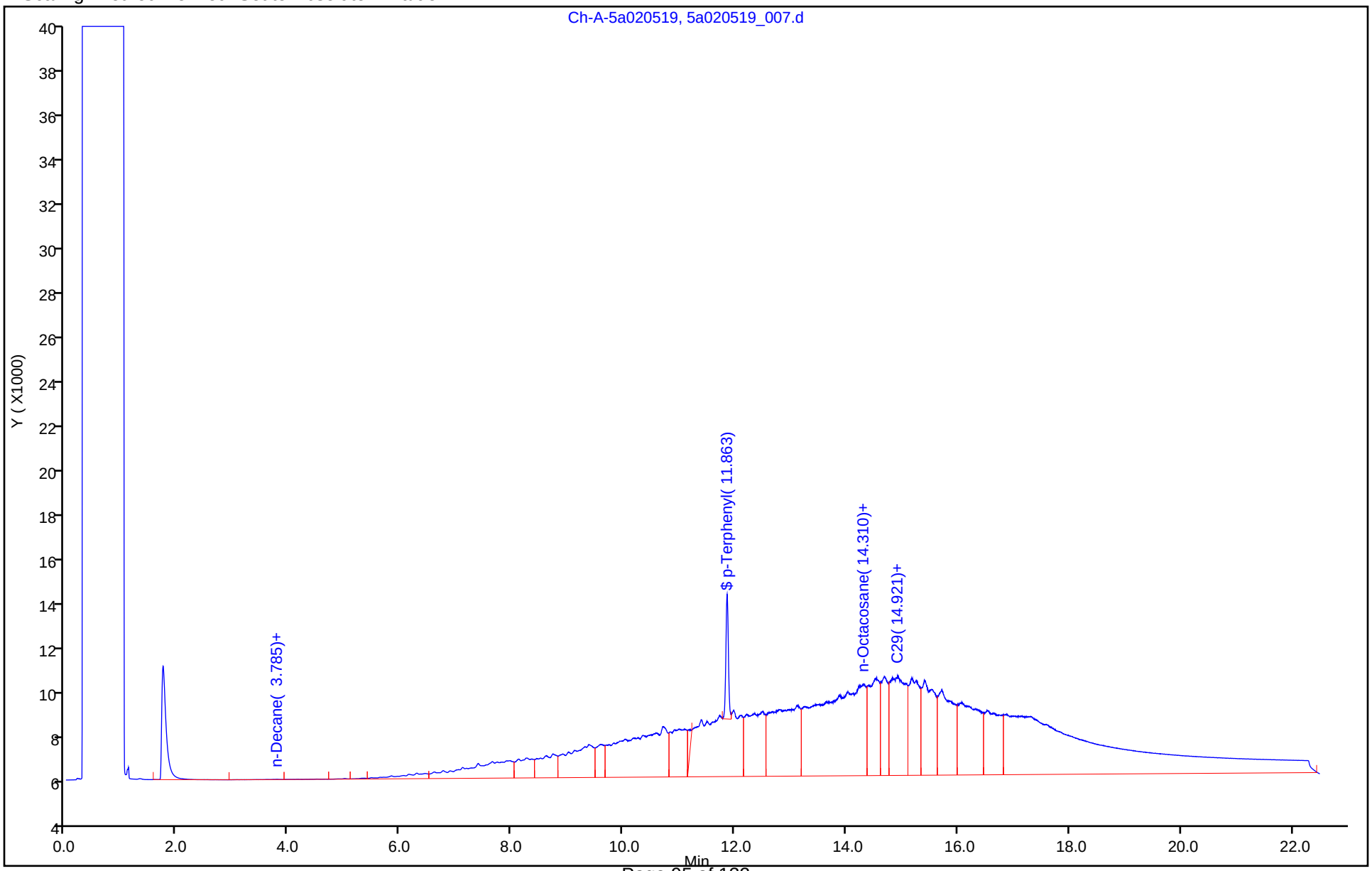
Report Date: 05-Feb-2019 12:50:11 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_007.d

Injection Date:	05-Feb-2019 11:51:00	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-13-D	Lab Sample ID:	720-90961-13	Worklist Smp#:	7
Client ID:	DG-X13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	3.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_007.d				
Lims ID:	720-90961-E-13-D				
Client ID:	DG-X13S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 11:51:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Sample Info:	#: 037 Name: 720-0056440-007				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 12:50:10	Calib Date:	05-Feb-2019 09:42:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 12:50:10

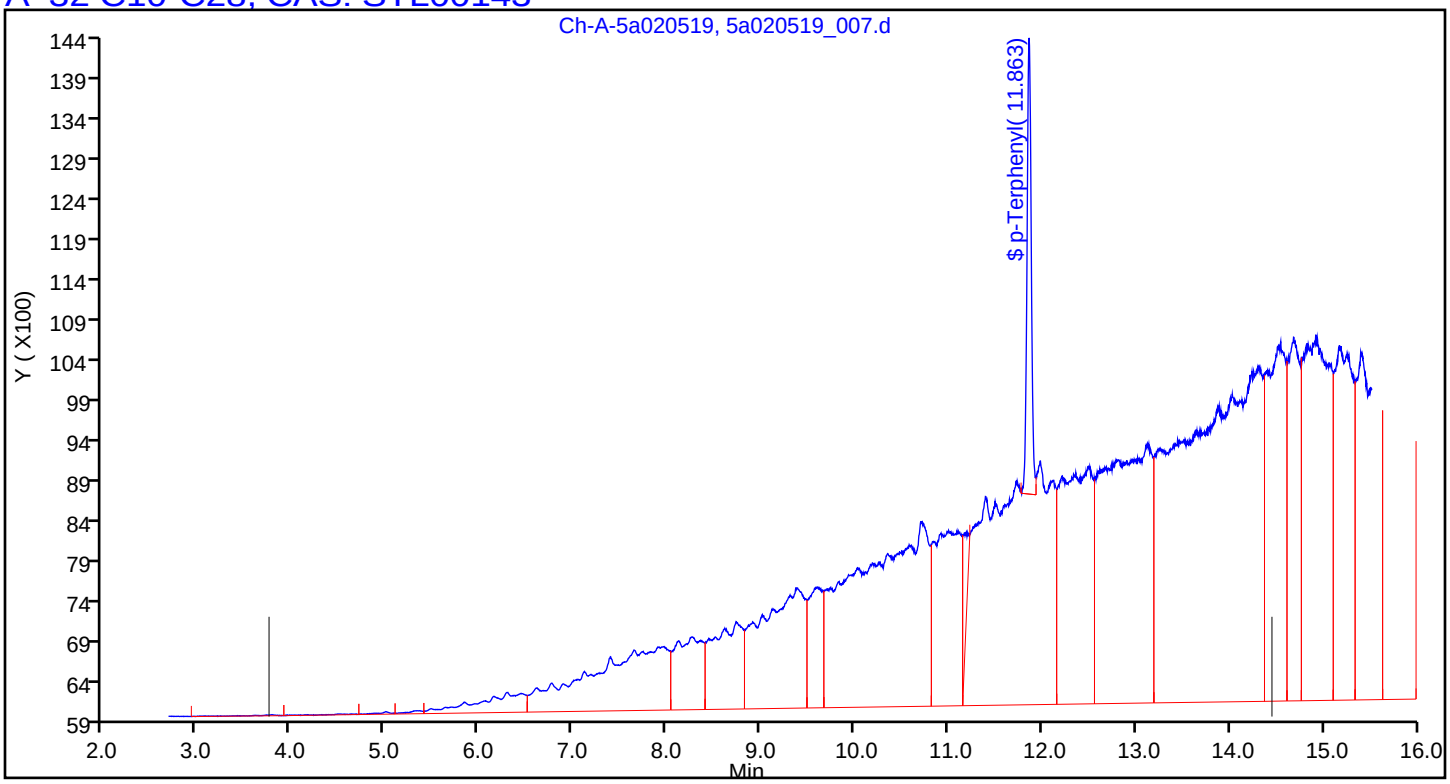
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	7.53	90.36

Report Date: 05-Feb-2019 12:50:11 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_007.d				
Injection Date:	05-Feb-2019 11:51:00	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-13-D	Lab Sample ID:	720-90961-13		
Client ID:	DG-X13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

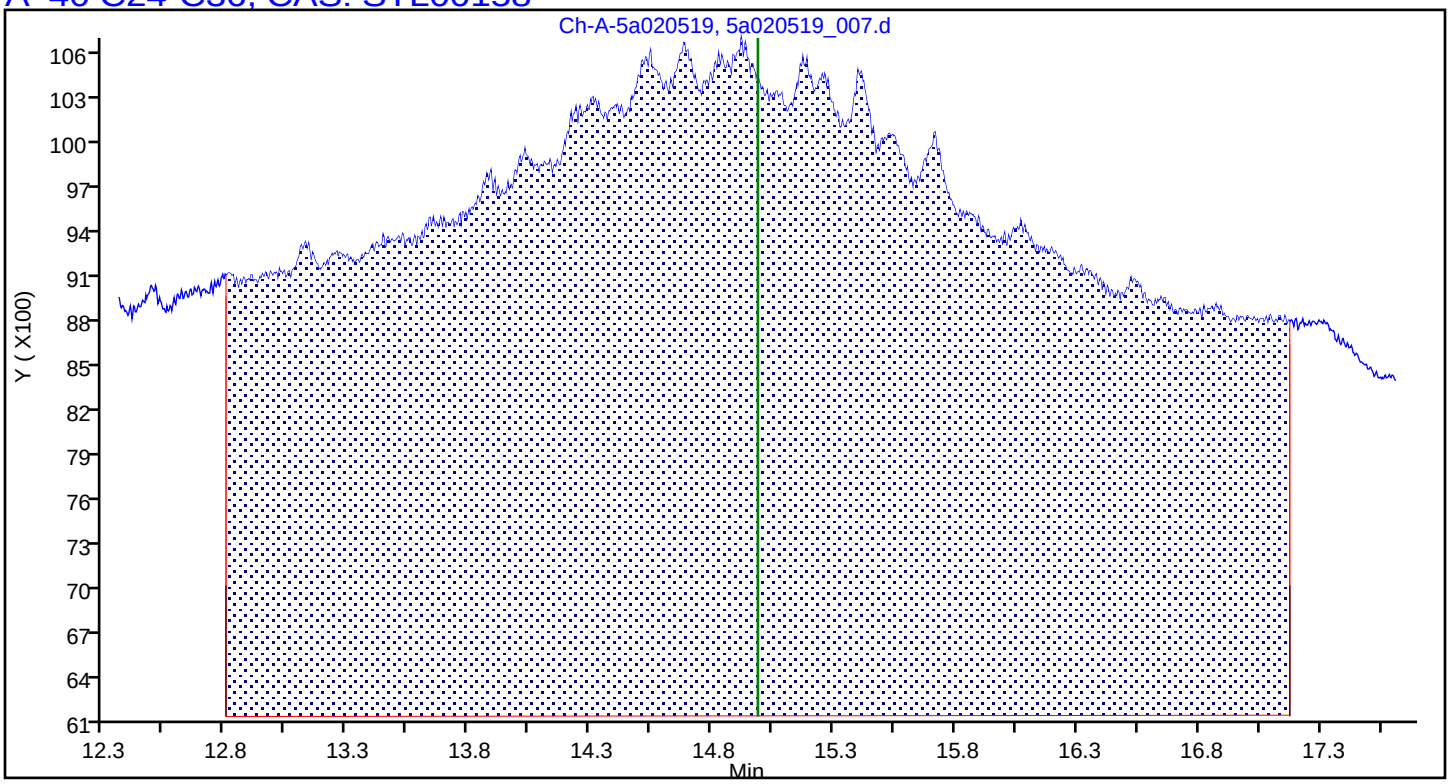


Report Date: 05-Feb-2019 12:50:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_007.d				
Injection Date:	05-Feb-2019 11:51:00	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-13-D	Lab Sample ID:	720-90961-13		
Client ID:	DG-X13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

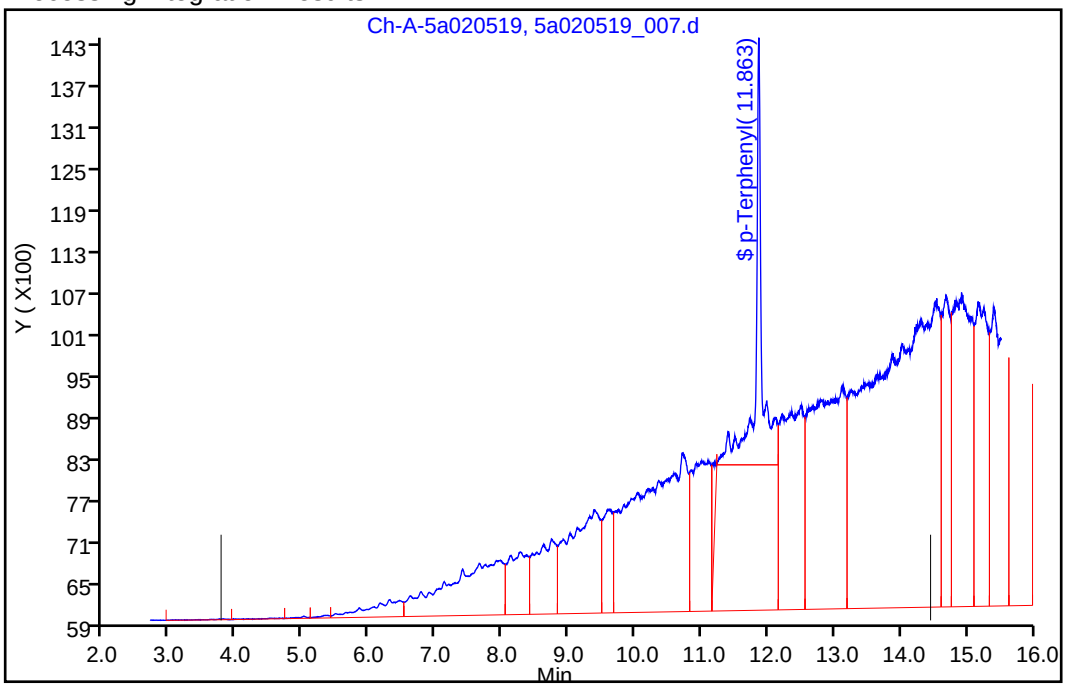
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_007.d				
Injection Date:	05-Feb-2019 11:51:00	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-13-D	Lab Sample ID:	720-90961-13		
Client ID:	DG-X13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.104, CAS: STL00143

Signal: 1

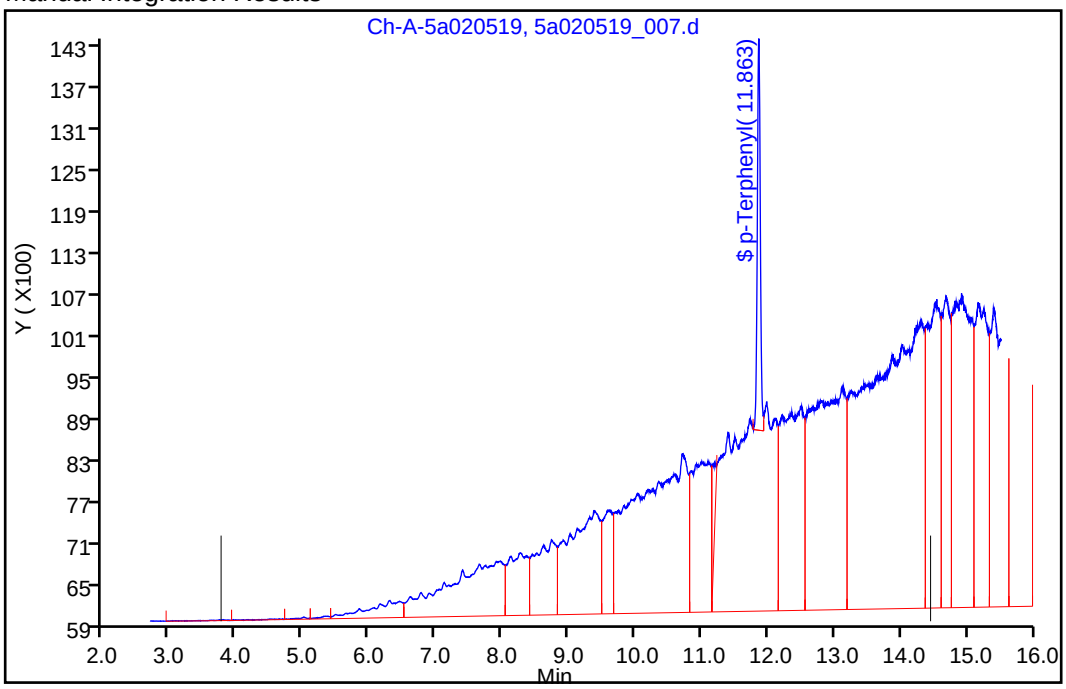
Processing Integration Results

RT: 9.10
Response: 3184671
Amount: 324.9328



Manual Integration Results

RT: 9.10
Response: 4540684
Amount: 463.2872



Reviewer: luj, 05-Feb-2019 12:49:52

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

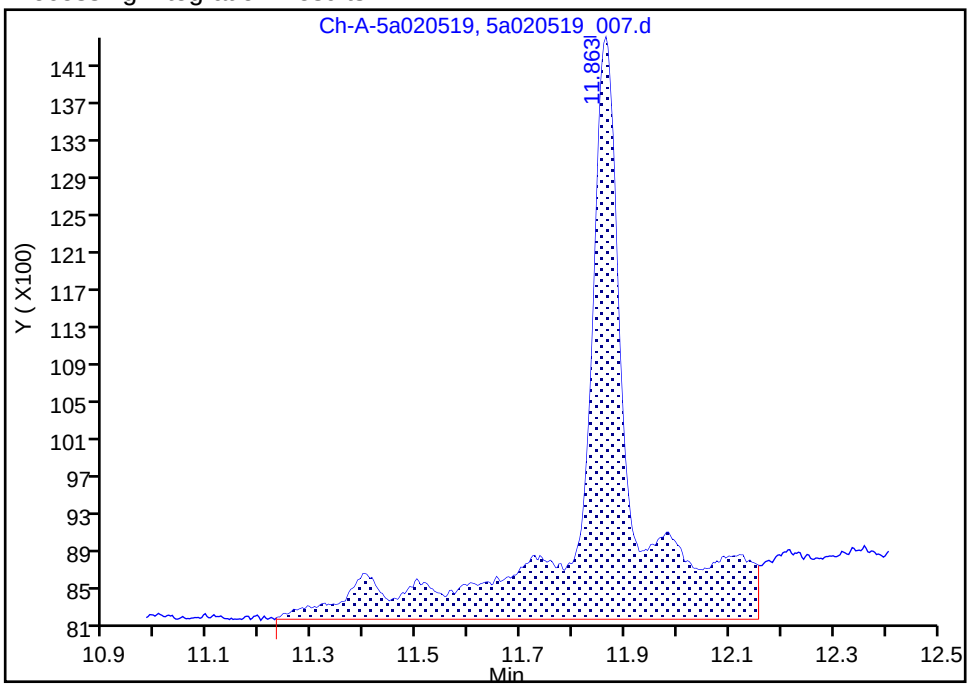
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_007.d				
Injection Date:	05-Feb-2019 11:51:00	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-13-D	Lab Sample ID:	720-90961-13		
Client ID:	DG-X13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

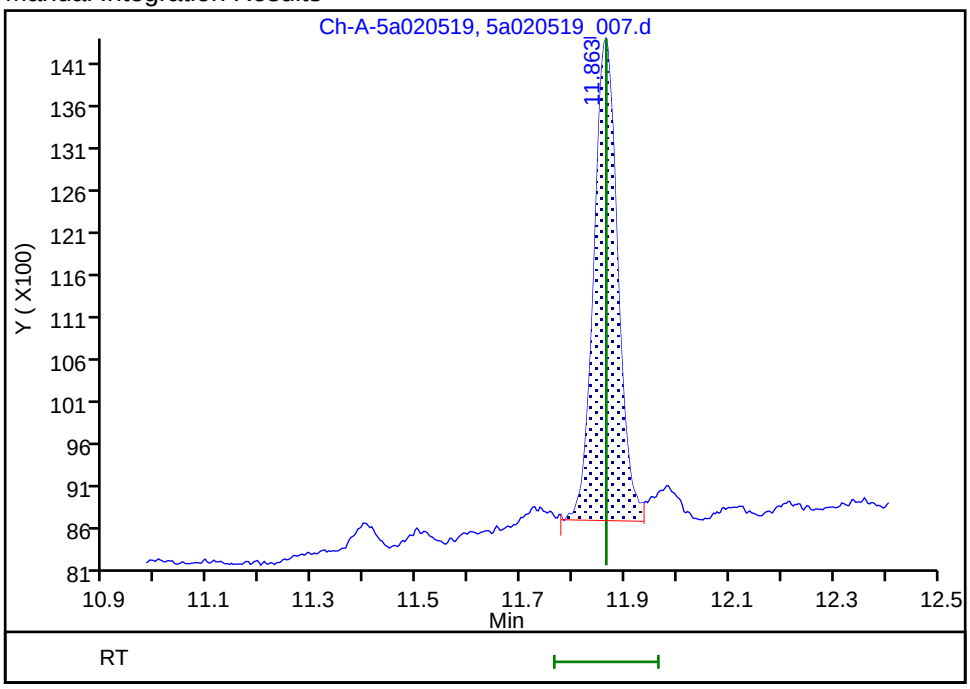
Processing Integration Results

RT: 11.86
Area: 212559
Amount: 17.824783
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 89799
Amount: 7.530369
Amount Units: mg/L



Reviewer: luj, 05-Feb-2019 12:50:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_021.d
Lims ID: 720-90961-E-14-E
Client ID: DG-R9S-0.5-1
Sample Type: Client
Inject. Date: 01-Feb-2019 18:48:15 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 100 Name: 720-0056396-021
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\DRO5B.m
Limit Group: DRO
Last Update: 04-Feb-2019 11:04:02 Calib Date: 01-Feb-2019 09:14:15
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0301

First Level Reviewer: luj Date: 04-Feb-2019 11:04:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.713	2.654	0.059	275	NC	
23 n-Decane	3.910	3.879	0.031	33824	NC	M
A 21 Stoddard Solvent	4.610	(2.654-6.567)		305147	26.8	M
A 1 C9-C13	4.610	(2.654-6.567)		305147	24.1	M
A 57 C10-C12	4.823	(3.879-5.767)		128856	13.1	M
24 Dodecane	5.787	5.767	0.020	8160	NC	M
A 3 C9 - C17	5.962	(2.654-9.271)		1522308	109.1	M
A 47 C9 - C18	6.251	(2.654-9.848)		1964847	175.0	M
A 60 C10-C16	6.261	(3.879-8.643)		1200369	97.4	M
A 25 C9-C19	6.529	(2.654-10.404)		2360063	168.7	M
A 15 Kerosene	6.529	(2.654-10.404)		2360063	209.8	M
26 C13	6.523	6.567	-0.044	41194	NC	M
$ 27 n-Decanoic Acid (Surr)		7.193			ND	U
A 59 C12-C16	7.205	(5.767-8.643)		1071513	109.1	M
A 62 C10-C20	7.408	(3.879-10.937)		2655287	270.4	M
A 28 C9-C24	7.756	(2.654-12.858)		3664419	373.2	M
A 29 C9-C25	7.973	(2.654-13.292)		3952521	402.6	M
A 54 C10-C23	8.142	(3.879-12.406)		3414799	347.8	M
A 4 C10-C24	8.368	(3.879-12.858)		3660832	372.9	M
A 16 C10-C25	8.585	(3.879-13.292)		3948934	402.2	M
45 Hexadecane	8.670	8.643	0.027	87787	NC	M
A 14 C10-C26	8.795	(3.879-13.711)		4030939	410.6	M
A 67 C12-C22	8.852	(5.767-11.937)		3093290	315.1	M
A 12 Unknown Hydrocarbons	9.192	(3.879-14.505)		4869493	NC	M
A 32 C10-C28	9.192	(3.879-14.505)		4869493	496.0	M
A 5 Diesel	9.192	(3.879-14.505)		4869493	496.0	M
A 30 C13-C22	9.252	(6.567-11.937)		2961780	301.7	M
44 Heptadecane	9.293	9.271	0.022	178171	NC	M
A 31 C12-C24	9.312	(5.767-12.858)		3531976	359.7	M
49 n-Octadecane	9.810	9.848	-0.038	38049	NC	M
A 11 Bunker Range Organics (C9-	9.935	(2.654-17.217)		6895520	NC	M
A 9 Crude Oil Range Organics (	9.762	(2.667-16.857)		7494534	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.935	(2.654-17.217)		7809187	699.7	
33 C19	10.353	10.404	-0.051	118341	NC	M
A 64 C13-C28	10.536	(6.567-14.505)		4609127	469.4	M
A 17 C10-C36	10.368	(3.879-16.857)		6891933	702.0	M
A 68 Crude Oil Range Organics (	10.701	(2.654-18.749)		8935636	NC	
A 13 C9-C40	10.701	(2.654-18.749)		8935636	1126.8	
A 58 C16-C24	10.750	(8.643-12.858)		2460463	250.6	M
61 icosane	10.927	10.937	-0.010	73334	NC	M
A 6 C10-C40	11.314	(3.879-18.749)		8925998	1125.7	
$ 34 p-Terphenyl		11.910			ND	U
35 n-Docosane		11.937			ND	
A 18 C12-C40	12.258	(5.767-18.749)		8776805	1106.7	
36 Tricosane	12.410	12.406	0.004	96055	NC	M
A 66 C13-C40	12.658	(6.567-18.749)		7392797	928.9	
37 n-Tetracosane	12.860	12.858	0.002	91966	NC	M
A 2 C16-C36 ORO	12.930	(8.643-17.217)		4063969	569.7	
38 C25	13.293	13.292	0.001	82005	NC	M
A 19 C16-C40	13.696	(8.643-18.749)		7618044	956.9	
46 n-Hexacosane	13.713	13.711	0.002	257762	NC	M
A 20 C19-C36	13.810	(10.404-17.217)		3544871	454.6	
A 55 C23-C32	14.175	(12.406-15.944)		1839820	447.9	
39 n-Octacosane	14.440	14.505	-0.065	120669	NC	M
65 C29	14.883	14.882	0.001	133046	NC	M
A 7 Motor Oil	15.037	(12.858-17.217)		2384765	417.8	
A 40 C24-C36	15.037	(12.858-17.217)		3529486	618.3	M
A 50 C25-C36	15.254	(13.292-17.217)		2227590	413.9	
A 10 C22-C40	15.343	(11.937-18.749)		3289376	415.2	
A 41 C23-C40	15.577	(12.406-18.749)		3152631	407.8	
A 8 C24-C40	15.803	(12.858-18.749)		3011884	403.8	
56 Dotriacontane	15.923	15.944	-0.021	125889	NC	M
A 51 C28-C40	16.627	(14.505-18.749)		2257373	433.1	
A 63 C29-C40	16.815	(14.882-18.749)		2001343	428.6	
42 n-Hexatriacontane	17.287	17.217	0.070	2357225	NC	M
43 C40		18.749			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

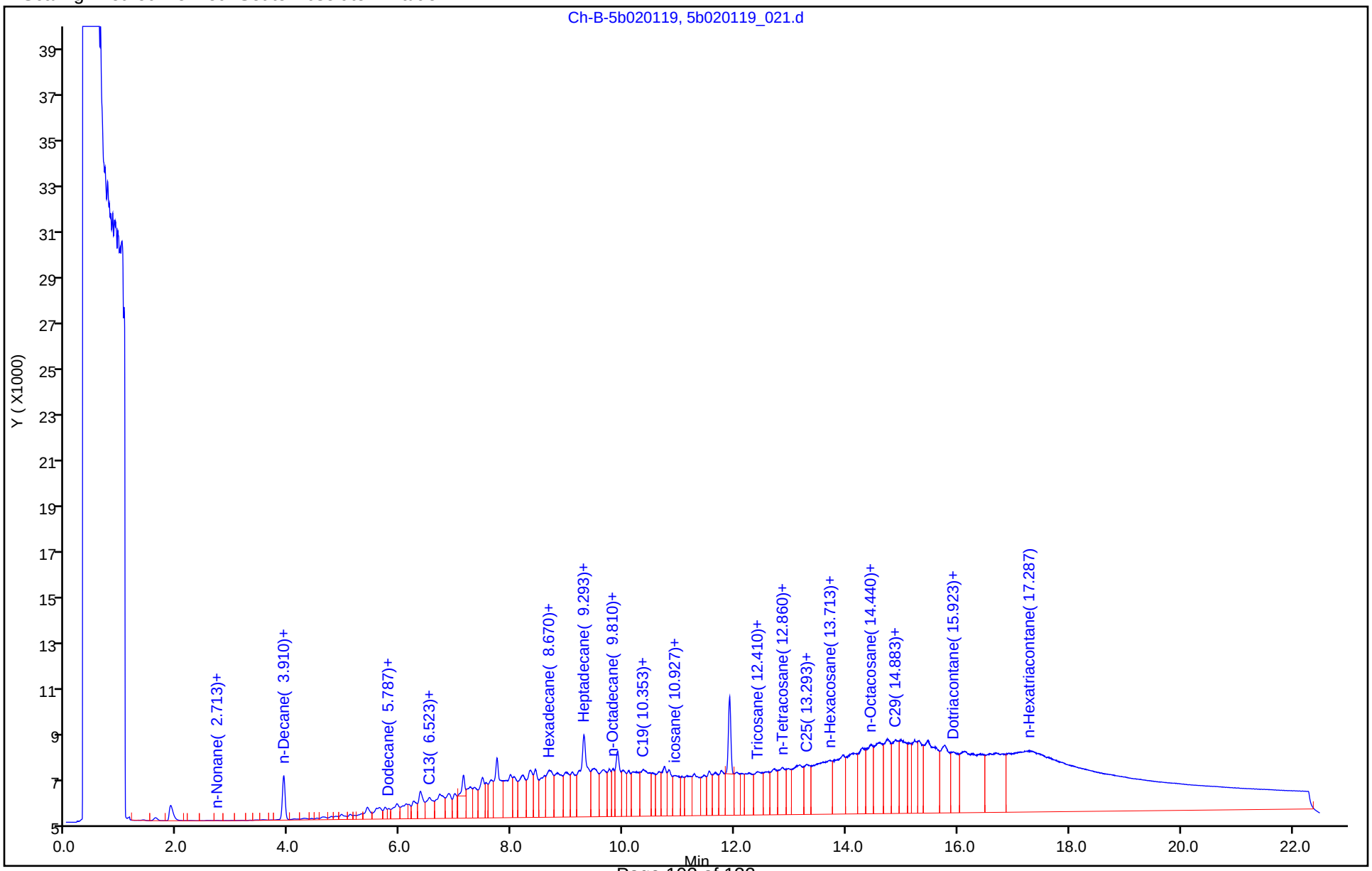
U - Marked Undetected

Report Date: 04-Feb-2019 11:04:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_021.d				
Injection Date:	01-Feb-2019 18:48:15	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-14-E	Lab Sample ID:	720-90961-14	Worklist Smp#:	21
Client ID:	DG-R9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

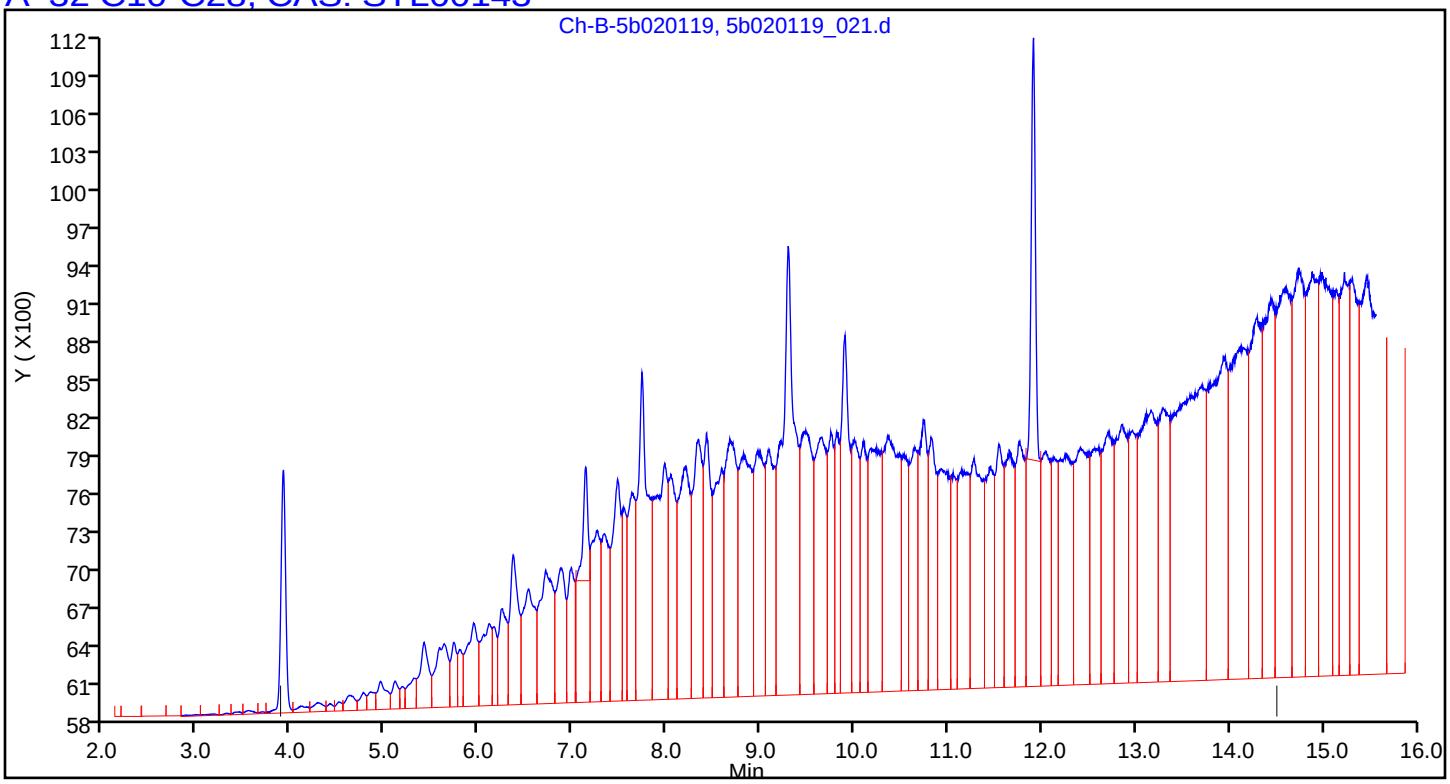


Report Date: 04-Feb-2019 11:04:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_021.d				
Injection Date:	01-Feb-2019 18:48:15	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-14-E	Lab Sample ID:	720-90961-14		
Client ID:	DG-R9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143



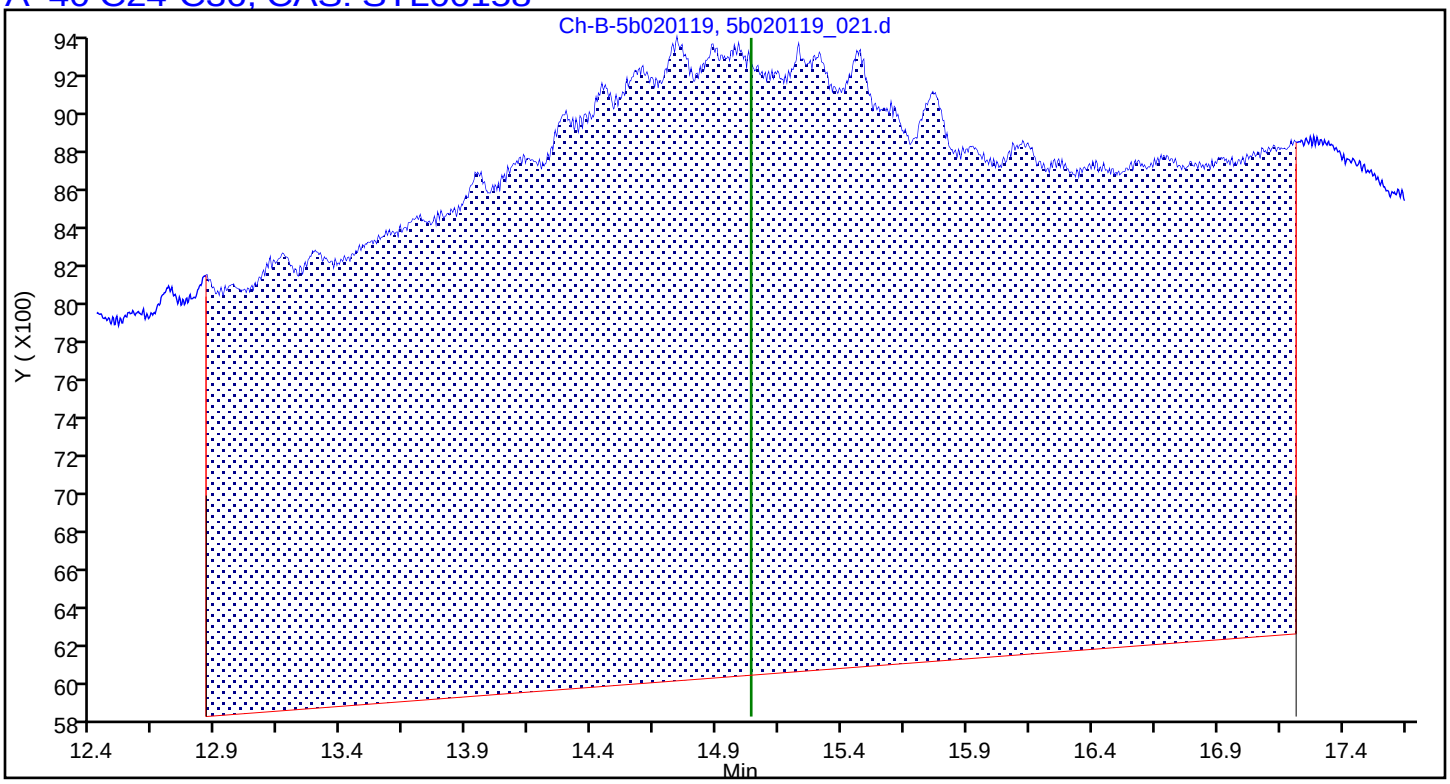
Report Date: 04-Feb-2019 11:04:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_021.d

Injection Date:	01-Feb-2019 18:48:15	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-14-E	Lab Sample ID:	720-90961-14		
Client ID:	DG-R9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

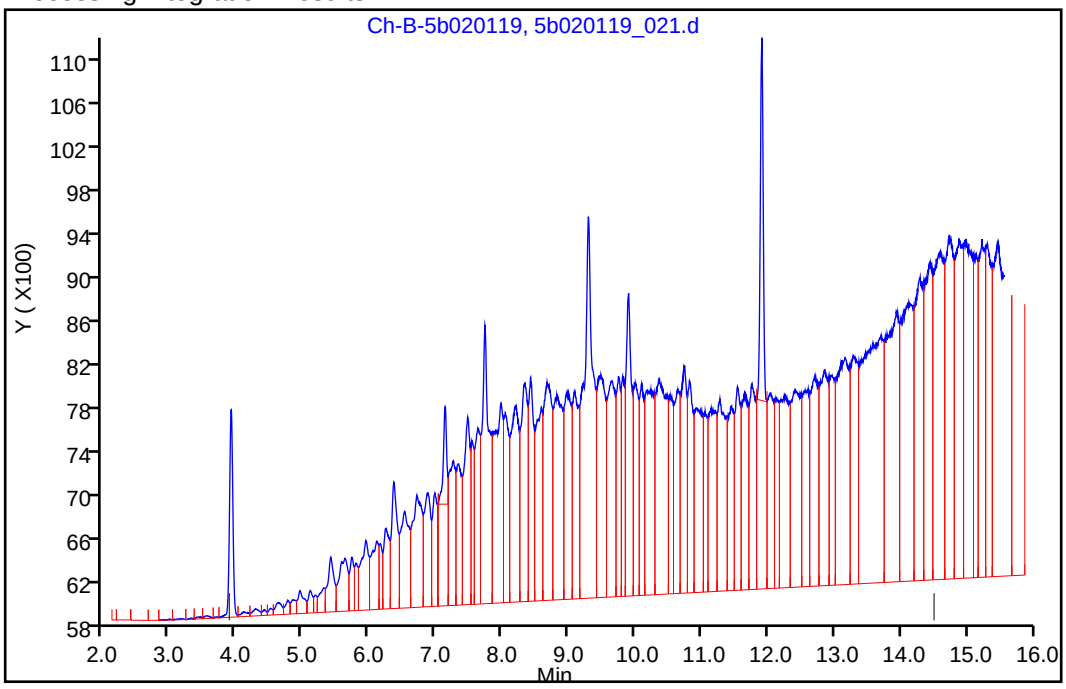
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Injection Date:	01-Feb-2019 18:48:15	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-14-E	Lab Sample ID:	720-90961-14		
Client ID:	DG-R9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.192, CAS: STL00143

Signal: 1

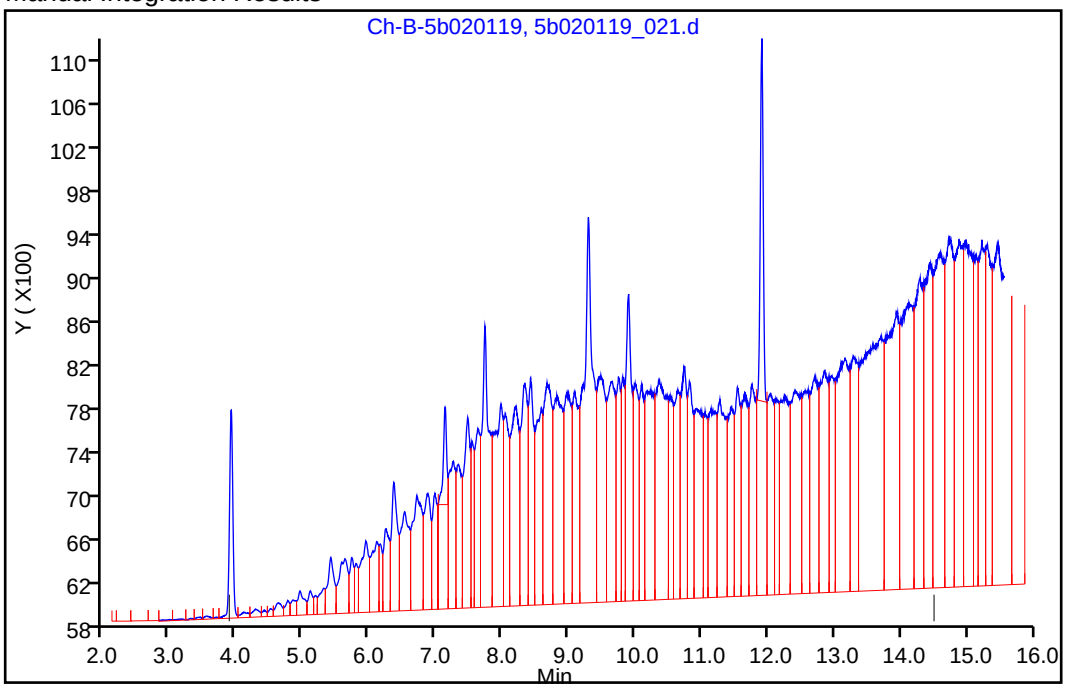
Processing Integration Results

RT: 9.19
Response: 4574847
Amount: 465.9550



Manual Integration Results

RT: 9.19
Response: 4869493
Amount: 495.9652



Reviewer: luj, 04-Feb-2019 11:03:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

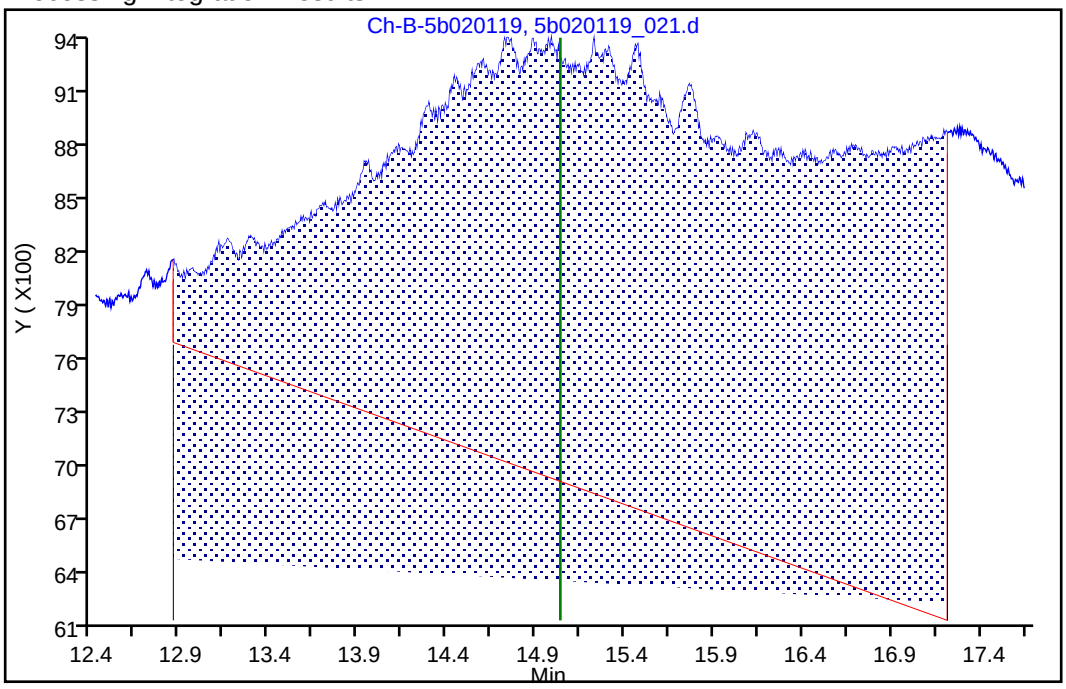
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_021.d				
Injection Date:	01-Feb-2019 18:48:15	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-14-E	Lab Sample ID:	720-90961-14		
Client ID:	DG-R9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.037, CAS: STL00158

Signal: 1

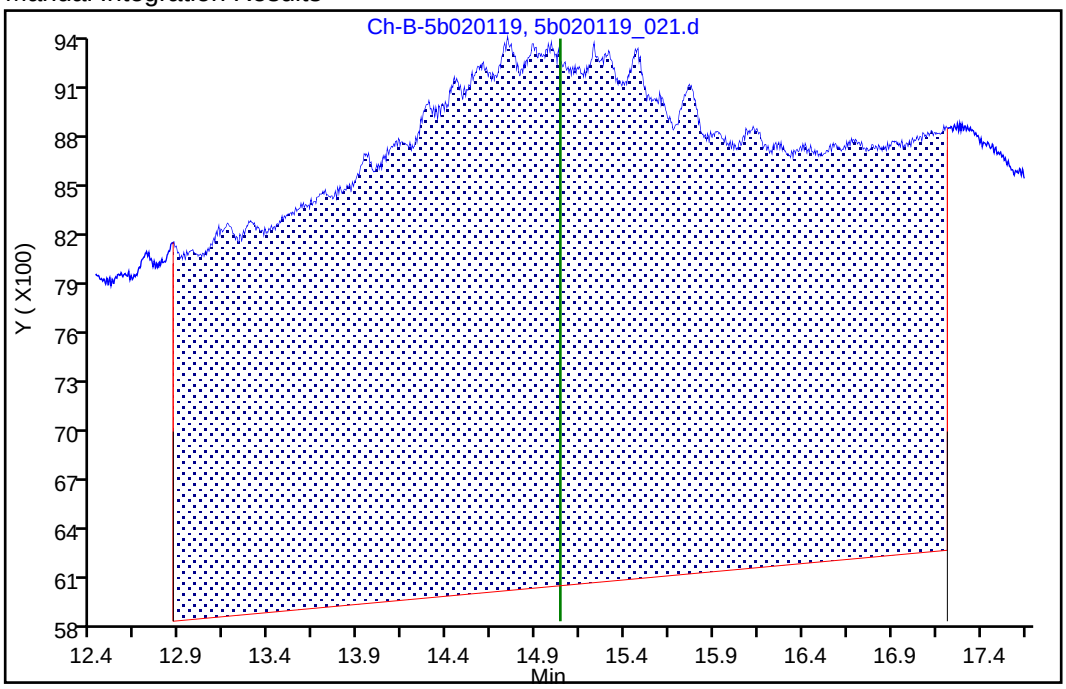
Processing Integration Results

RT: 15.04
Response: 2384765
Amount: 417.7769



Manual Integration Results

RT: 15.04
Response: 3529486
Amount: 618.3158



Reviewer: luj, 04-Feb-2019 11:03:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

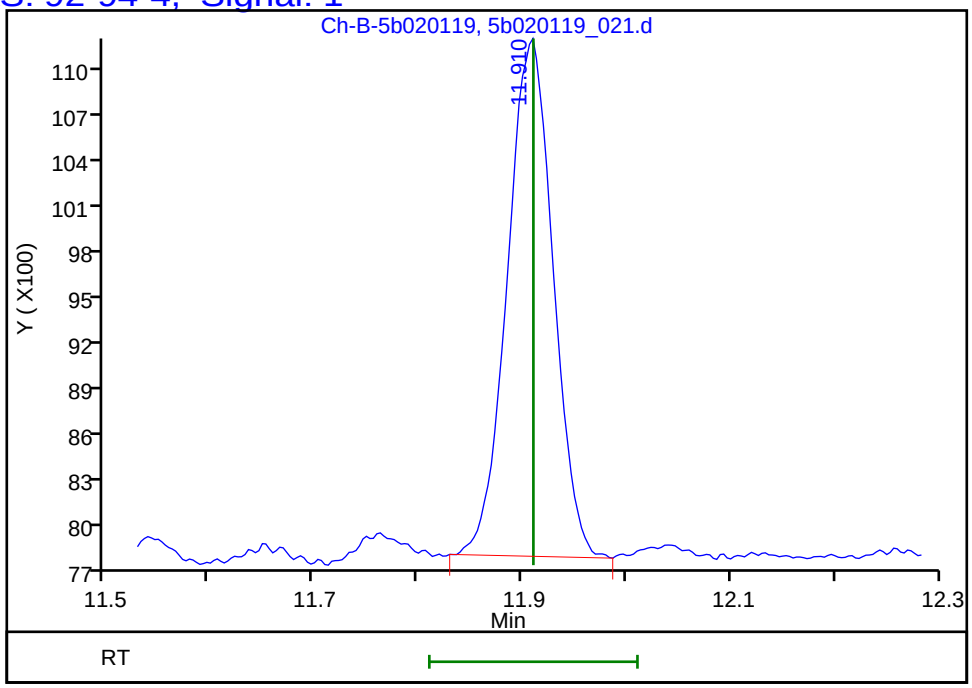
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_021.d

Injection Date:	01-Feb-2019 18:48:15	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-14-E	Lab Sample ID:	720-90961-14		
Client ID:	DG-R9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.91
Response: 50803
Amount: 4.423214



Reviewer: luj, 04-Feb-2019 11:04:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_010.d
Lims ID: 720-90961-E-15-E
Client ID: DG-R9S-3.5-4
Sample Type: Client
Inject. Date: 05-Feb-2019 13:18:27 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 038 Name: 720-0056440-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m
Limit Group: DRO
Last Update: 05-Feb-2019 14:16:38 Calib Date: 05-Feb-2019 09:42:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0324

First Level Reviewer: luj Date: 05-Feb-2019 14:16:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.457	2.511	-0.054	440	NC	
	23 n-Decane	3.791	3.756	0.035	1047	NC	
A	1 C9-C13	4.496	(2.511-6.481)		141916	NC	
A	21 Stoddard Solvent	4.496	(2.511-6.481)		141916	NC	
A	57 C10-C12	4.716	(3.756-5.677)		49743	5.08	
	24 Dodecane		5.677			ND	
A	3 C9 - C17	5.859	(2.511-9.207)		830695	68.5	
A	47 C9 - C18	6.155	(2.511-9.799)		1250343	116.2	
A	60 C10-C16	6.162	(3.756-8.569)		675859	61.3	
A	15 Kerosene	6.424	(2.511-10.337)		1642811	152.3	
A	25 C9-C19	6.424	(2.511-10.337)		1642811	134.6	
	26 C13	6.449	6.481	-0.032	22748	NC	
A	59 C12-C16	7.123	(5.677-8.569)		659430	67.3	
$	27 n-Decanoic Acid (Surr)		7.132			ND	U
A	62 C10-C20	7.314	(3.756-10.872)		1855845	189.4	
A	28 C9-C24	7.655	(2.511-12.800)		2483223	253.4	
A	29 C9-C25	7.873	(2.511-13.236)		2483223	253.4	
A	54 C10-C23	8.051	(3.756-12.347)		2239111	228.5	
A	4 C10-C24	8.278	(3.756-12.800)		2481451	253.2	
A	16 C10-C25	8.496	(3.756-13.236)		2481451	253.2	
	45 Hexadecane	8.607	8.569	0.038	153064	NC	
A	14 C10-C26	8.706	(3.756-13.656)		2621453	267.5	
A	67 C12-C22	8.776	(5.677-11.875)		1992654	203.3	
A	12 Unknown Hydrocarbons	9.104	(3.756-14.453)		3067815	NC	M
A	32 C10-C28	9.104	(3.756-14.453)		3067815	313.0	M
A	5 Diesel	9.104	(3.756-14.453)		3067815	313.0	M
A	30 C13-C22	9.178	(6.481-11.875)		1891687	193.0	
	44 Heptadecane	9.222	9.207	0.015	295765	NC	
A	31 C12-C24	9.239	(5.677-12.800)		2465022	251.5	
	49 n-Octadecane	9.827	9.799	0.028	144186	NC	
A	9 Crude Oil Range Organics (	9.844	(2.511-17.177)		5098246	NC	
A	52 Mineral oil	9.844	(2.511-17.177)		5098246	443.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.844	(2.511-17.177)		4340555	NC	M
33 C19	10.286	10.337	-0.051	187031	NC	
A 17 C10-C36	10.466	(3.756-17.177)		4338783	442.7	M
A 64 C13-C28	10.467	(6.481-14.453)		2950419	301.0	M
A 13 C9-C40	10.600	(2.511-18.689)		5890151	707.2	
A 68 Crude Oil Range Organics (	10.600	(2.511-18.689)		5890151	NC	
A 58 C16-C24	10.685	(8.569-12.800)		1805592	184.2	
61 icosane		10.872			ND	
A 6 C10-C40	11.222	(3.756-18.689)		5885828	707.1	
$ 34 p-Terphenyl	11.860	11.864	-0.004	312358	26.2	M
35 n-Docosane		11.875			ND	
A 18 C12-C40	12.183	(5.677-18.689)		5821651	699.4	
36 Tricosane	12.349	12.347	0.002	101446	NC	
A 66 C13-C40	12.585	(6.481-18.689)		5719092	686.5	
37 n-Tetracosane	12.794	12.800	-0.006	140894	NC	
A 2 C16-C36 ORO	12.873	(8.569-17.177)		4284861	564.6	
38 C25	13.238	13.236	0.002	140002	NC	
A 19 C16-C40	13.629	(8.569-18.689)		5076766	605.2	
46 n-Hexacosane	13.658	13.656	0.002	141436	NC	
A 20 C19-C36	13.757	(10.337-17.177)		2632016	305.0	
A 55 C23-C32	14.122	(12.347-15.897)		1881333	395.6	
39 n-Octacosane	14.387	14.453	-0.066	118574	NC	M
65 C29	14.831	14.831	0.000	277013	NC	
A 7 Motor Oil	14.988	(12.800-17.177)		1897135	311.4	
A 40 C24-C36	14.988	(12.800-17.177)		2160592	354.7	M
A 50 C25-C36	15.206	(13.236-17.177)		1769250	305.8	
A 10 C22-C40	15.282	(11.875-18.689)		2540421	303.9	
A 41 C23-C40	15.518	(12.347-18.689)		2636673	321.5	
A 8 C24-C40	15.745	(12.800-18.689)		2510618	315.6	
56 Dotriacontane		15.897			ND	
A 51 C28-C40	16.571	(14.453-18.689)		1929708	289.5	
A 63 C29-C40	16.760	(14.831-18.689)		1731790	283.5	
42 n-Hexatriacontane		17.177			ND	
43 C40		18.689			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

Report Date: 05-Feb-2019 14:16:39 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_010.d

Injection Date:	05-Feb-2019 13:18:27	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-15-E	Lab Sample ID:	720-90961-15	Worklist Smp#:	10
Client ID:	DG-R9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_010.d				
Lims ID:	720-90961-E-15-E				
Client ID:	DG-R9S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 13:18:27	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 038 Name: 720-0056440-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	05-Feb-2019 14:16:38	Calib Date:	05-Feb-2019 09:42:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0324				

First Level Reviewer: luj Date: 05-Feb-2019 14:16:38

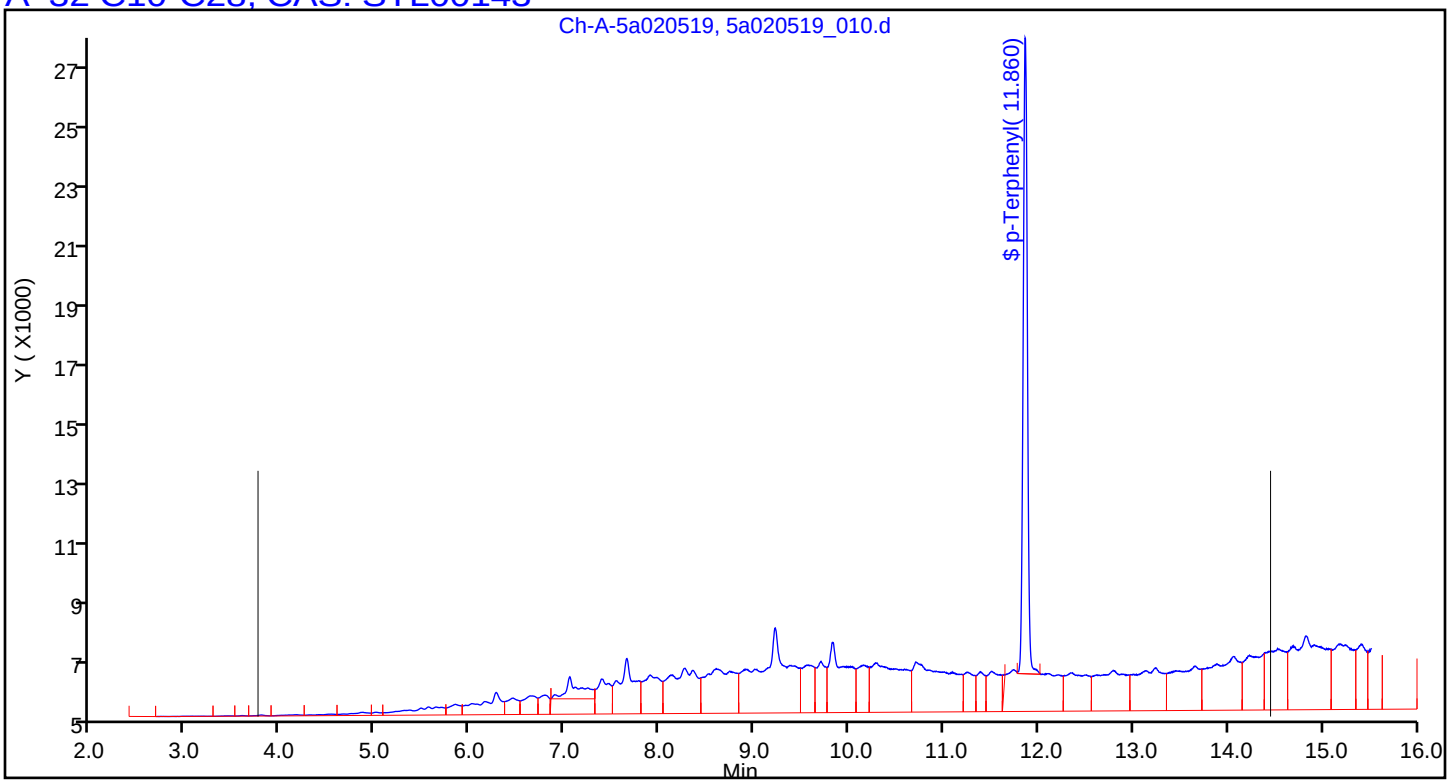
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.2	104.77

Report Date: 05-Feb-2019 14:16:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_010.d				
Injection Date:	05-Feb-2019 13:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-15-E	Lab Sample ID:	720-90961-15		
Client ID:	DG-R9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

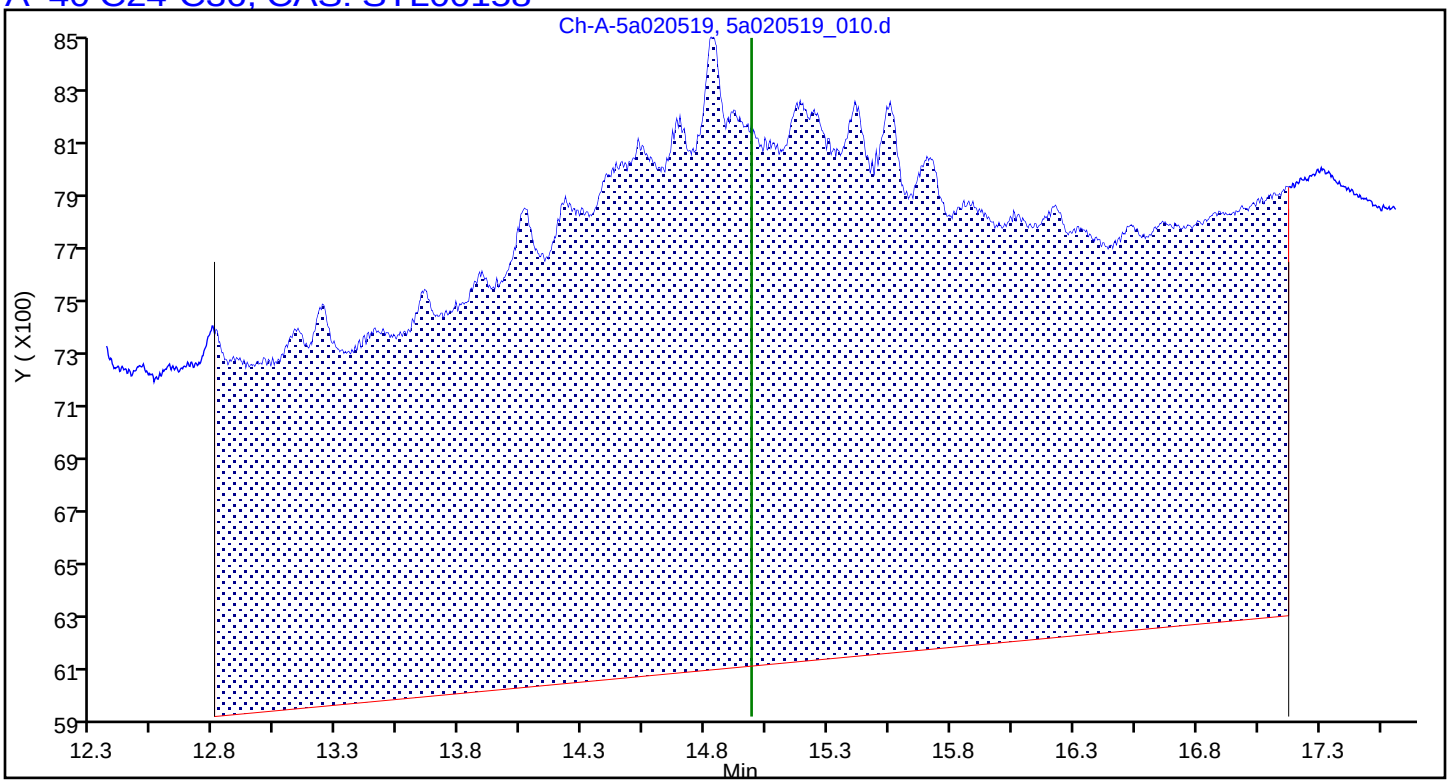


Report Date: 05-Feb-2019 14:16:41 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_010.d				
Injection Date:	05-Feb-2019 13:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-15-E	Lab Sample ID:	720-90961-15		
Client ID:	DG-R9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

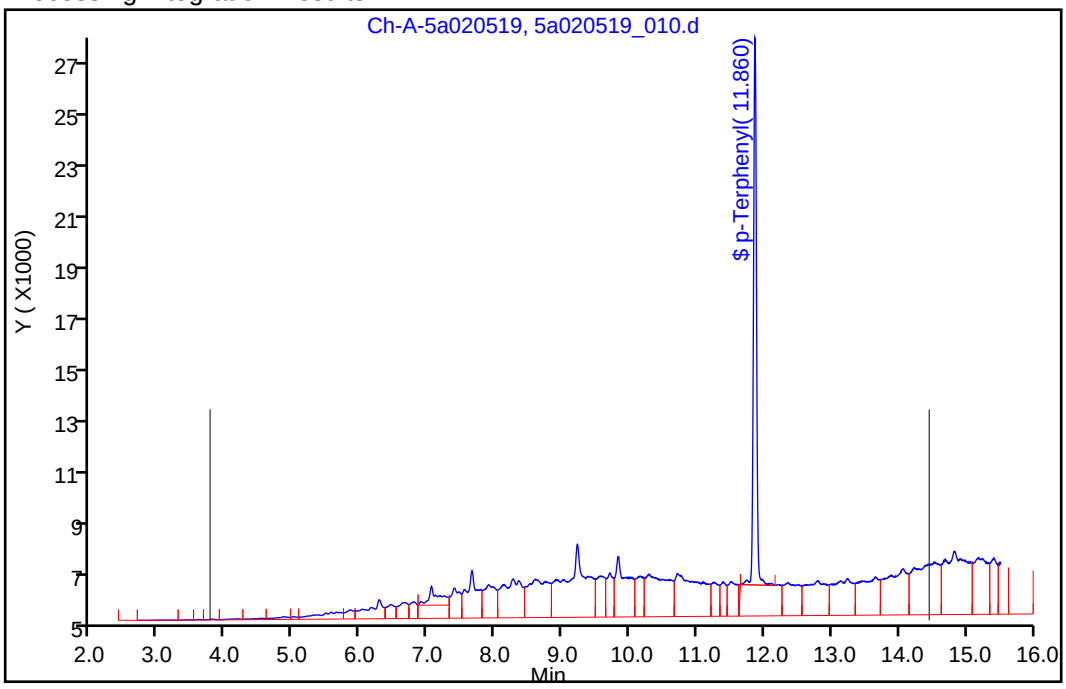
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_010.d				
Injection Date:	05-Feb-2019 13:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-15-E	Lab Sample ID:	720-90961-15		
Client ID:	DG-R9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.104, CAS: STL00143

Signal: 1

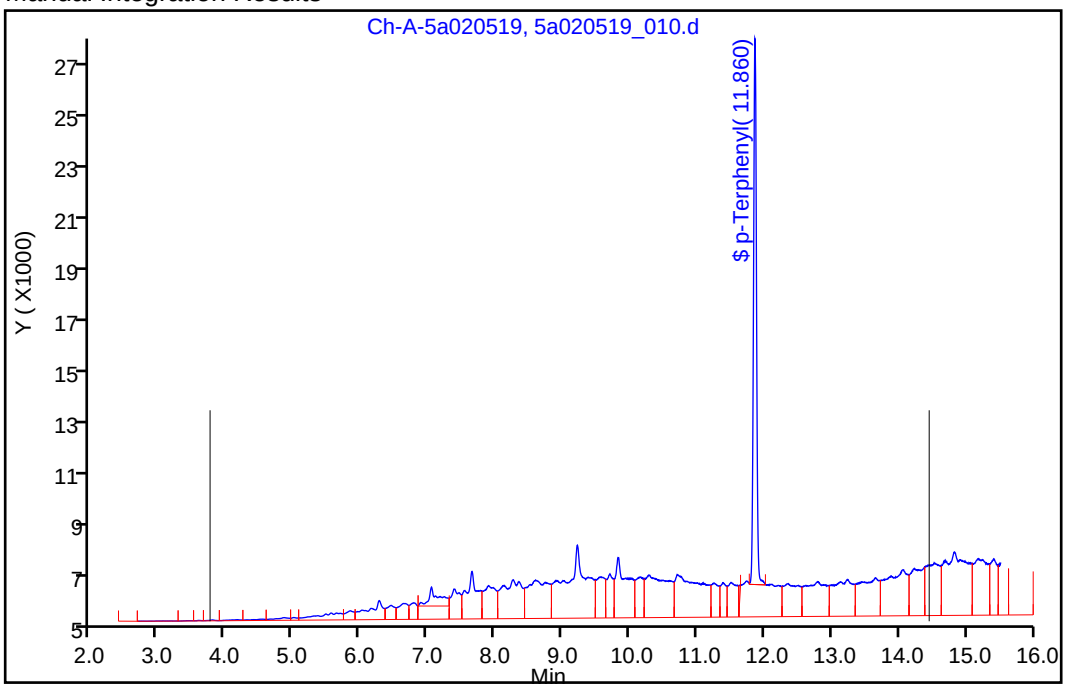
Processing Integration Results

RT: 9.10
Response: 2901762
Amount: 296.0676



Manual Integration Results

RT: 9.10
Response: 3067815
Amount: 313.0100



Reviewer: luj, 05-Feb-2019 14:16:06

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

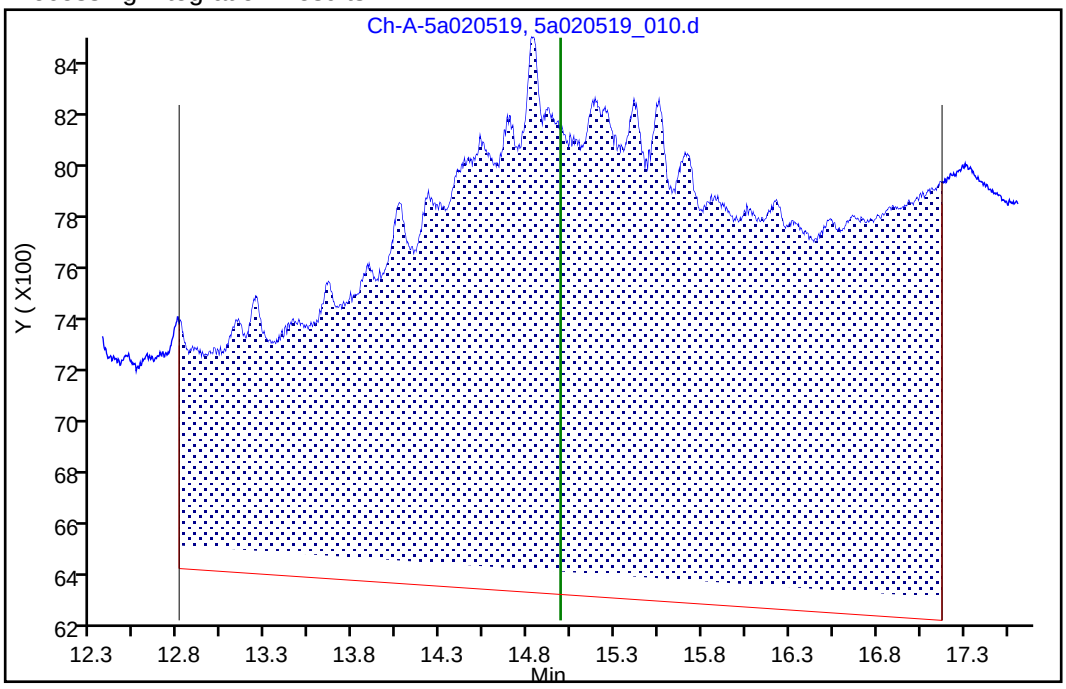
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_010.d				
Injection Date:	05-Feb-2019 13:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-15-E	Lab Sample ID:	720-90961-15		
Client ID:	DG-R9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.988, CAS: STL00158

Signal: 1

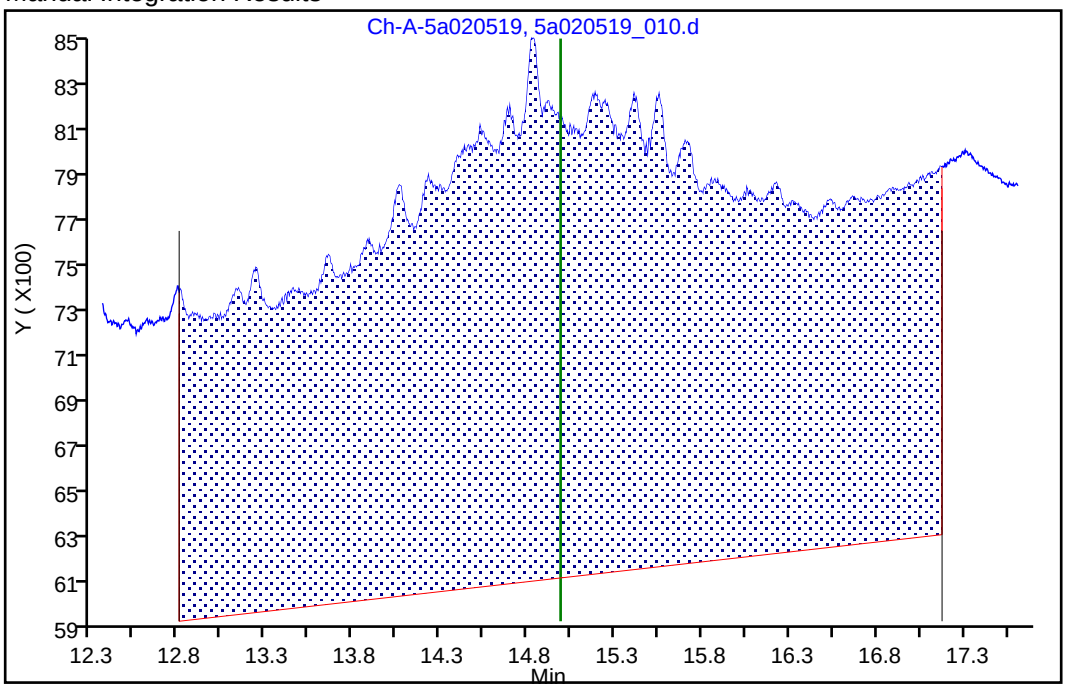
Processing Integration Results

RT: 14.99
Response: 1897135
Amount: 311.4083



Manual Integration Results

RT: 14.99
Response: 2160592
Amount: 354.6538



Reviewer: luj, 05-Feb-2019 14:16:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

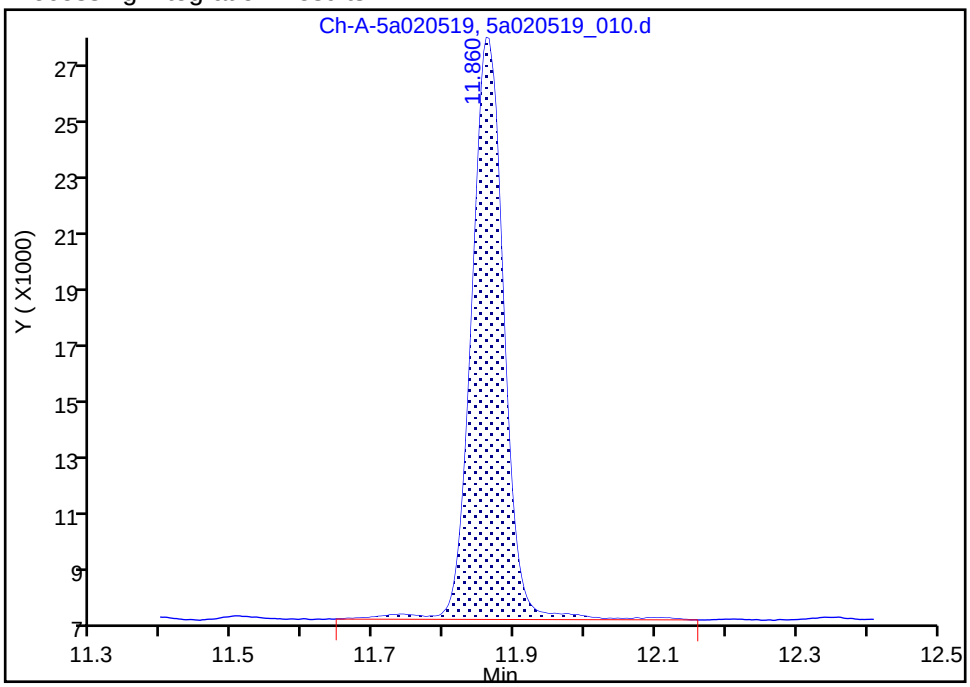
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Injection Date:	05-Feb-2019 13:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-15-E	Lab Sample ID:	720-90961-15		
Client ID:	DG-R9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

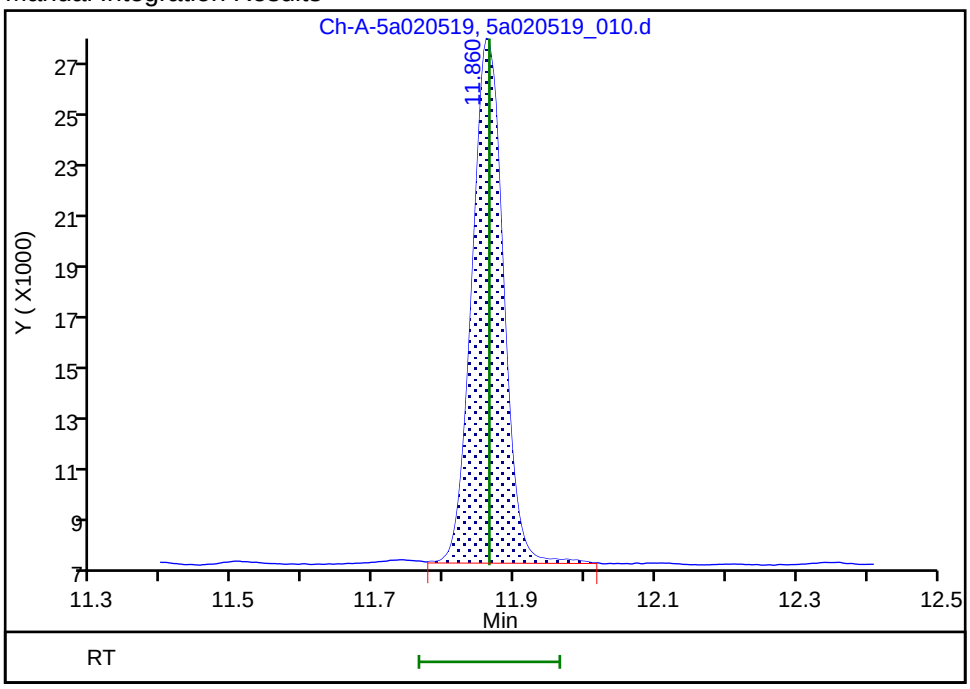
Processing Integration Results

RT: 11.86
Area: 321050
Amount: 26.922627
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 312358
Amount: 26.193733
Amount Units: mg/L



Reviewer: luj, 05-Feb-2019 14:16:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_022.d
Lims ID: 720-90961-E-16-E
Client ID: DUP-110
Sample Type: Client
Inject. Date: 01-Feb-2019 19:17:40 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 130 Name: 720-0056396-022
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\DRO5B.m
Limit Group: DRO
Last Update: 04-Feb-2019 11:04:54 Calib Date: 01-Feb-2019 09:14:15
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0301

First Level Reviewer: luj Date: 04-Feb-2019 11:04:54

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.680	2.654	0.026	1425	NC	
	23 n-Decane	3.837	3.879	-0.042	3005	NC	M
A	21 Stoddard Solvent	4.610	(2.654-6.567)		237133	20.9	M
A	1 C9-C13	4.610	(2.654-6.567)		237133	18.7	M
A	57 C10-C12	4.823	(3.879-5.767)		118056	12.0	M
	24 Dodecane	5.767	5.767	0.000	15438	NC	M
A	3 C9 - C17	5.962	(2.654-9.271)		605484	43.4	M
A	47 C9 - C18	6.251	(2.654-9.848)		806123	71.8	M
A	60 C10-C16	6.261	(3.879-8.643)		503236	40.8	M
A	25 C9-C19	6.529	(2.654-10.404)		922033	65.9	M
A	15 Kerosene	6.529	(2.654-10.404)		922033	81.9	M
	26 C13	6.563	6.567	-0.004	17788	NC	M
$	27 n-Decanoic Acid (Surr)		7.193			ND	U
A	59 C12-C16	7.205	(5.767-8.643)		400618	40.8	M
A	62 C10-C20	7.408	(3.879-10.937)		1410079	143.6	M
A	28 C9-C24	7.756	(2.654-12.858)		3911825	398.4	M
A	29 C9-C25	7.973	(2.654-13.292)		4788091	487.7	M
A	54 C10-C23	8.142	(3.879-12.406)		3408750	347.2	M
A	4 C10-C24	8.368	(3.879-12.858)		3905895	397.8	M
A	16 C10-C25	8.585	(3.879-13.292)		4782161	487.1	M
	45 Hexadecane	8.647	8.643	0.004	24985	NC	M
A	14 C10-C26	8.795	(3.879-13.711)		5269397	536.7	M
A	67 C12-C22	8.852	(5.767-11.937)		2408698	245.3	M
A	12 Unknown Hydrocarbons	9.192	(3.879-14.505)		6697897	NC	M
A	32 C10-C28	9.192	(3.879-14.505)		6697897	682.2	M
A	5 Diesel	9.192	(3.879-14.505)		6697897	682.2	M
A	30 C13-C22	9.252	(6.567-11.937)		2297901	234.0	M
	44 Heptadecane	9.293	9.271	0.022	57299	NC	M
A	31 C12-C24	9.312	(5.767-12.858)		3803277	387.4	M
	49 n-Octadecane	9.827	9.848	-0.021	52384	NC	M
A	11 Bunker Range Organics (C9-	9.935	(2.654-17.217)		11957431	NC	M
A	9 Crude Oil Range Organics (	9.935	(2.654-17.217)		10507624	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.935	(2.654-17.217)		10507624	941.5	
33 C19	10.457	10.404	0.053	167845	NC	M
A 64 C13-C28	10.536	(6.567-14.505)		6484482	660.5	M
A 17 C10-C36	10.553	(3.890-17.217)		11948496	1217.0	M
A 68 Crude Oil Range Organics (	10.701	(2.654-18.749)		11564962	NC	
A 13 C9-C40	10.701	(2.654-18.749)		11564962	1471.3	
A 58 C16-C24	10.750	(8.643-12.858)		3402659	346.6	M
61 icosane		10.937			ND	
A 6 C10-C40	11.314	(3.879-18.749)		11555158	1470.3	
$ 34 p-Terphenyl		11.910			ND	U
35 n-Docosane		11.937			ND	
A 18 C12-C40	12.258	(5.767-18.749)		11426994	1453.9	
36 Tricosane	12.393	12.406	-0.013	271402	NC	M
A 66 C13-C40	12.658	(6.567-18.749)		10001596	1271.3	
37 n-Tetracosane	12.883	12.858	0.025	193635	NC	M
A 2 C16-C36 ORO	12.930	(8.643-17.217)		6969049	976.9	
38 C25	13.277	13.292	-0.015	130231	NC	M
A 19 C16-C40	13.696	(8.643-18.749)		10950602	1394.2	
46 n-Hexacosane	13.733	13.711	0.022	172500	NC	M
A 20 C19-C36	13.810	(10.404-17.217)		7617022	976.8	
A 55 C23-C32	14.175	(12.406-15.944)		5230445	1273.4	
39 n-Octacosane	14.450	14.505	-0.055	271154	NC	M
65 C29	14.873	14.882	-0.009	248928	NC	M
A 7 Motor Oil	15.037	(12.858-17.217)		5612944	983.3	
A 40 C24-C36	15.037	(12.858-17.217)		5906160	1034.7	M
A 50 C25-C36	15.254	(13.292-17.217)		4952519	920.3	
A 10 C22-C40	15.343	(11.937-18.749)		7716105	974.0	
A 41 C23-C40	15.577	(12.406-18.749)		7094094	917.6	
A 8 C24-C40	15.803	(12.858-18.749)		6451782	865.0	
56 Dotriacontane		15.944			ND	
A 51 C28-C40	16.627	(14.505-18.749)		3922543	779.9	
A 63 C29-C40	16.815	(14.882-18.749)		3283359	730.0	
42 n-Hexatriacontane		17.217			ND	
43 C40		18.749			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

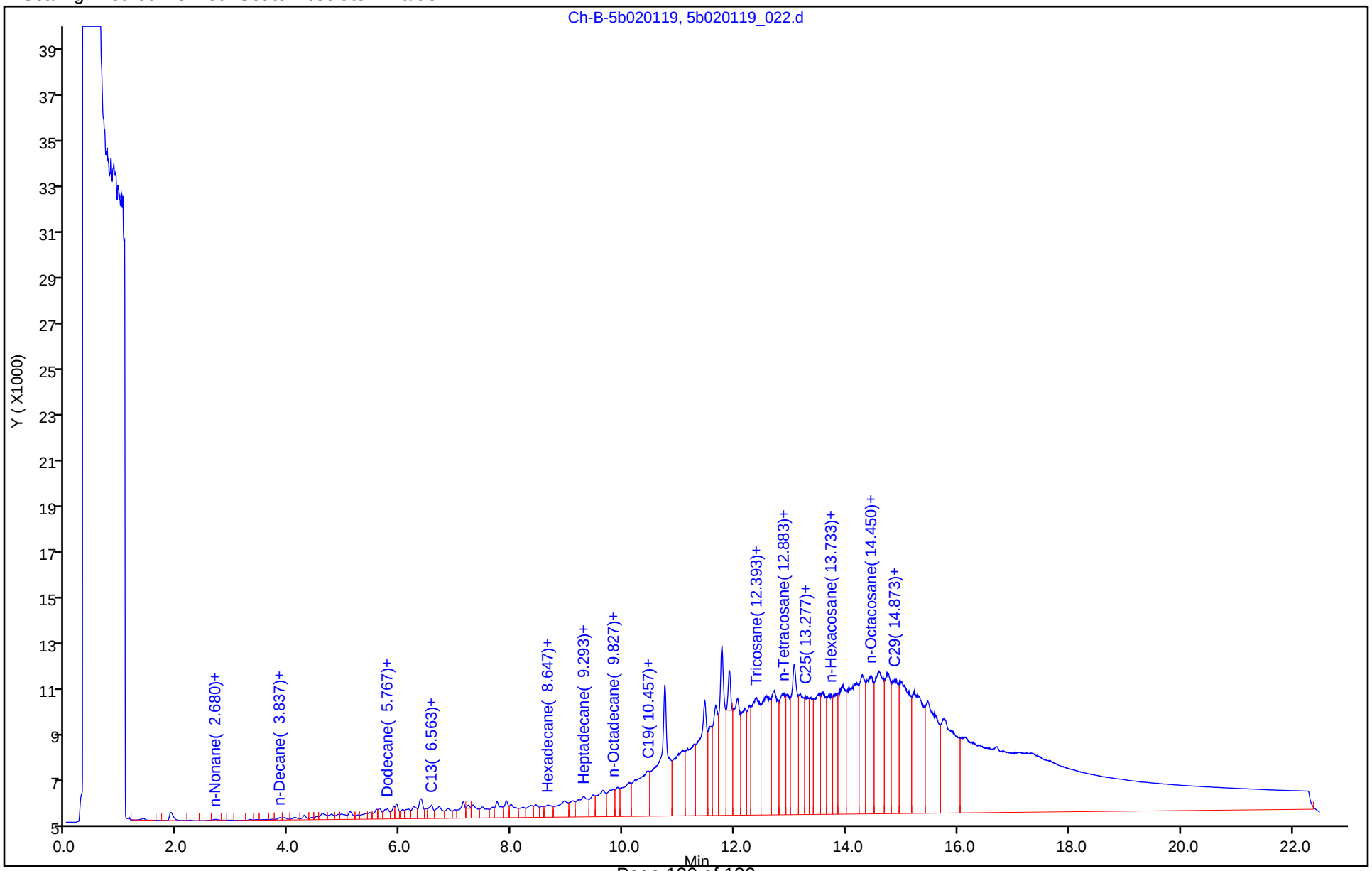
Report Date: 04-Feb-2019 11:04:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_022.d

Injection Date:	01-Feb-2019 19:17:40	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-90961-E-16-E	Lab Sample ID:	720-90961-16	Worklist Smp#:	22
Client ID:	DUP-110				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

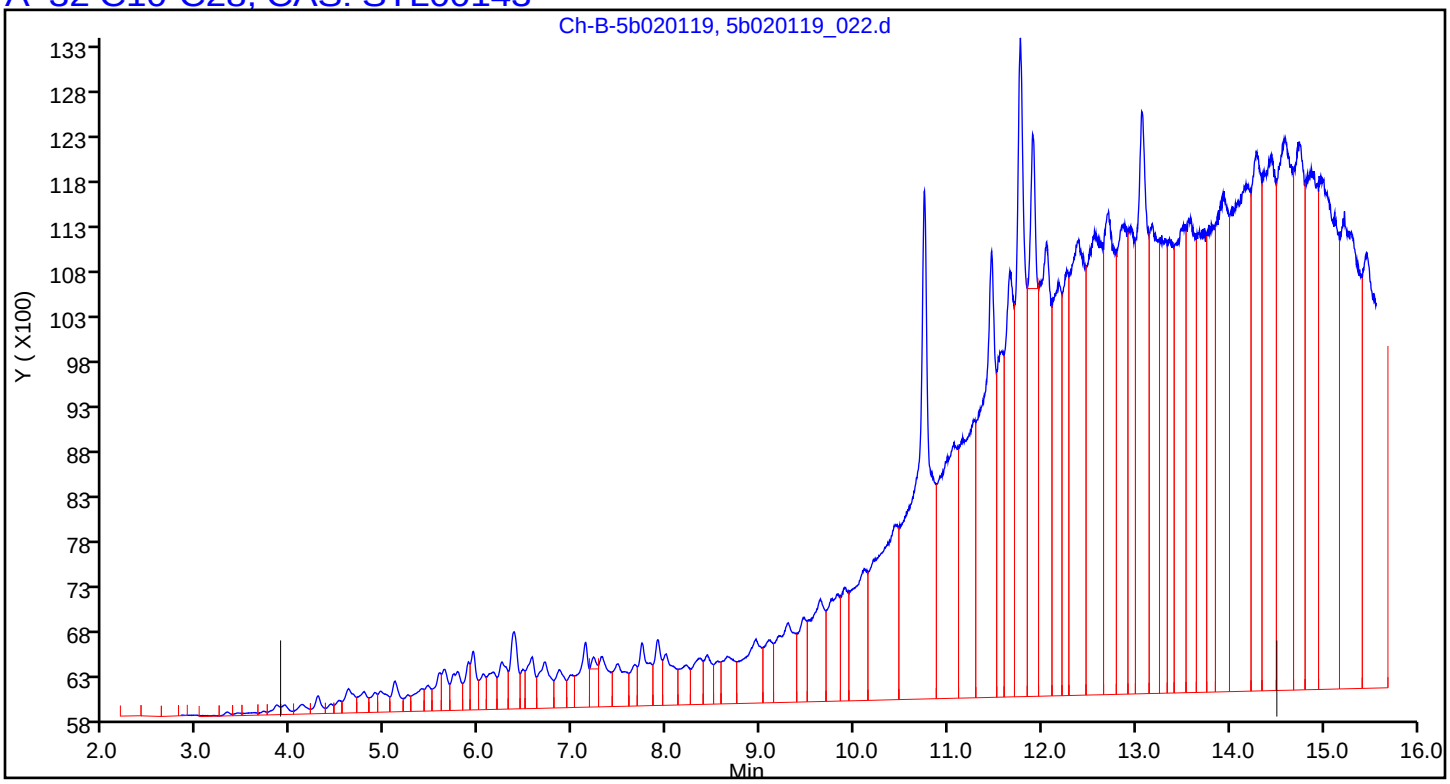


Report Date: 04-Feb-2019 11:04:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_022.d				
Injection Date:	01-Feb-2019 19:17:40	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-16-E	Lab Sample ID:	720-90961-16		
Client ID:	DUP-110				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

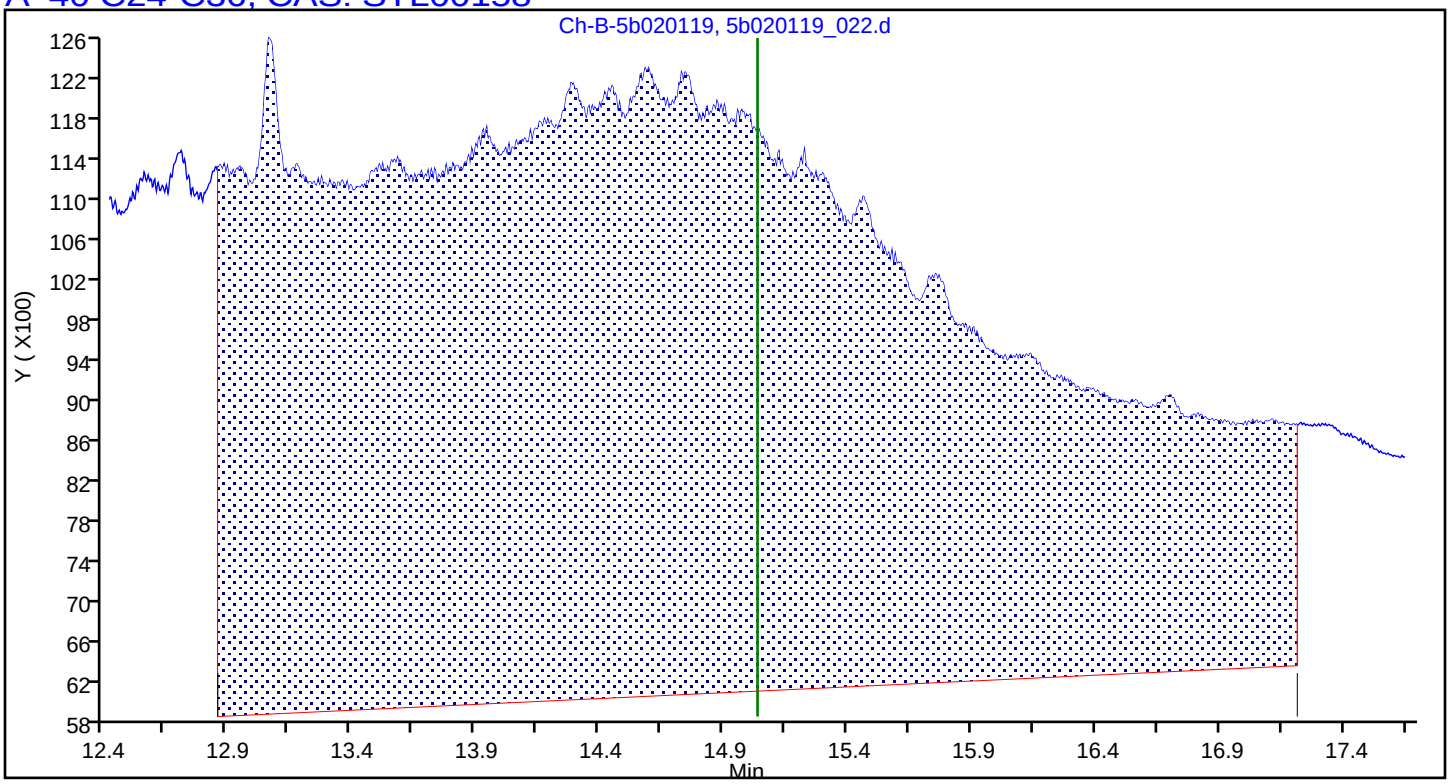


Report Date: 04-Feb-2019 11:04:59 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_022.d				
Injection Date:	01-Feb-2019 19:17:40	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-16-E	Lab Sample ID:	720-90961-16		
Client ID:	DUP-110				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

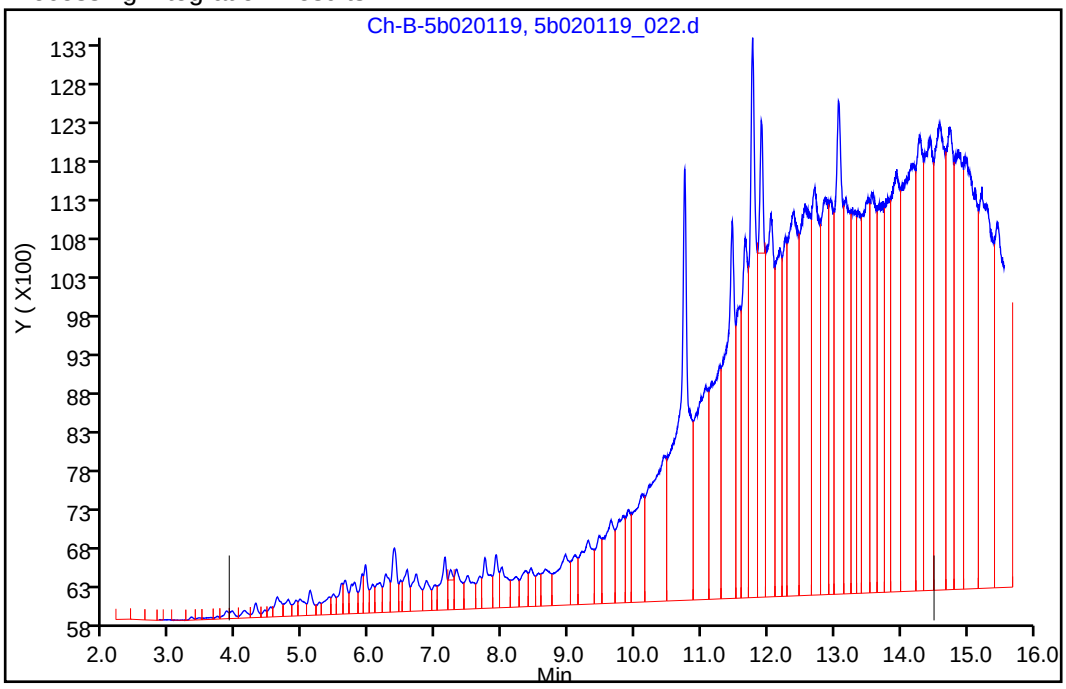
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_022.d				
Injection Date:	01-Feb-2019 19:17:40	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-16-E	Lab Sample ID:	720-90961-16		
Client ID:	DUP-110				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.192, CAS: STL00143

Signal: 1

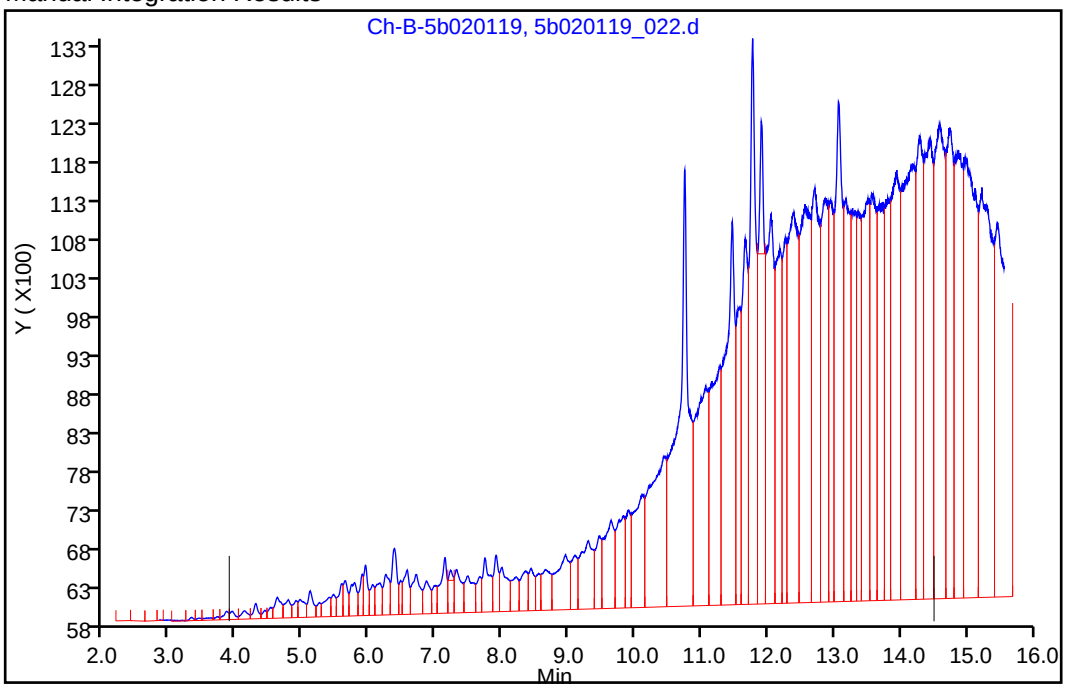
Processing Integration Results

RT: 9.19
Response: 6343709
Amount: 646.1163



Manual Integration Results

RT: 9.19
Response: 6697897
Amount: 682.1908



Reviewer: luj, 04-Feb-2019 11:04:48

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

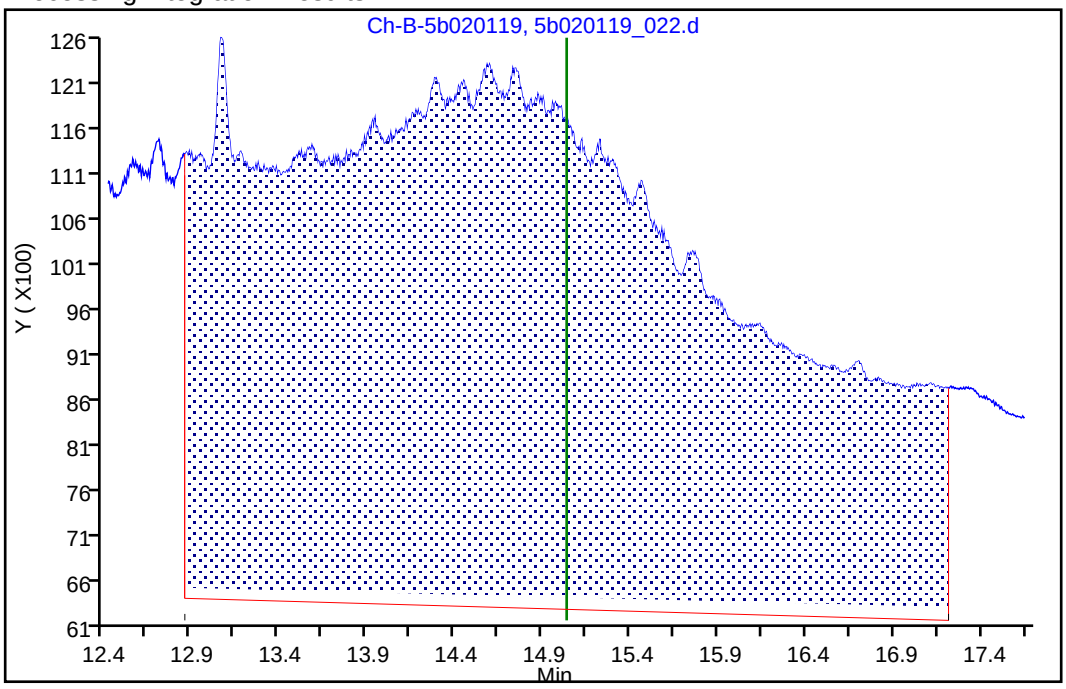
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Injection Date:	01-Feb-2019 19:17:40	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-16-E	Lab Sample ID:	720-90961-16		
Client ID:	DUP-110				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.037, CAS: STL00158

Signal: 1

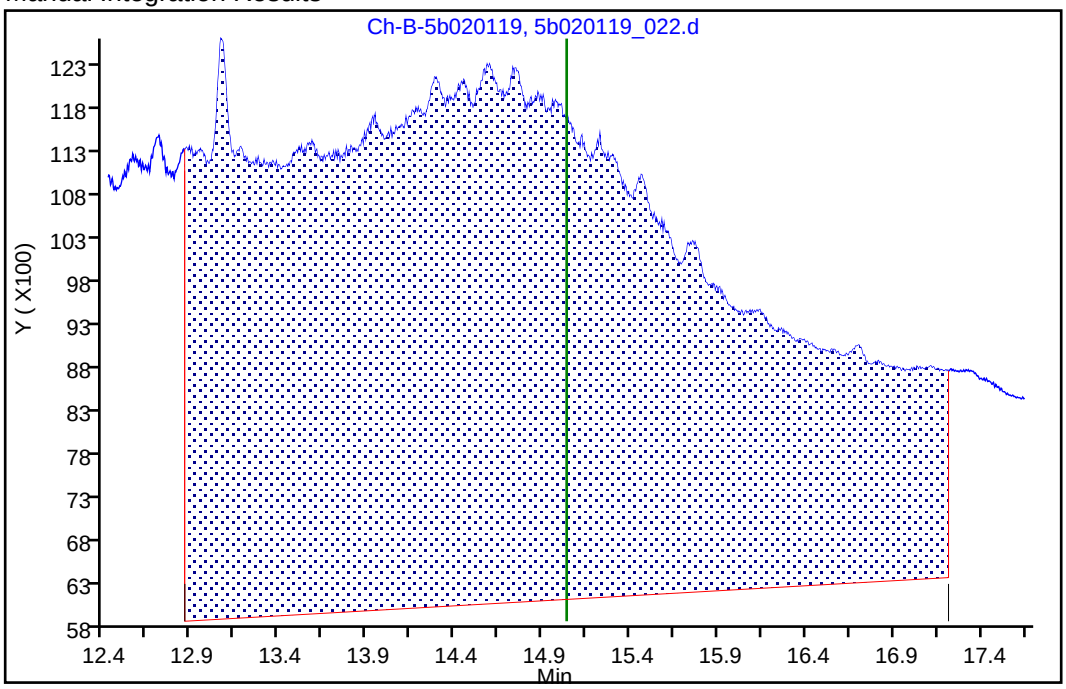
Processing Integration Results

RT: 15.04
Response: 5612944
Amount: 983.3080



Manual Integration Results

RT: 15.04
Response: 5906160
Amount: 1034.6753



Reviewer: luj, 04-Feb-2019 11:04:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

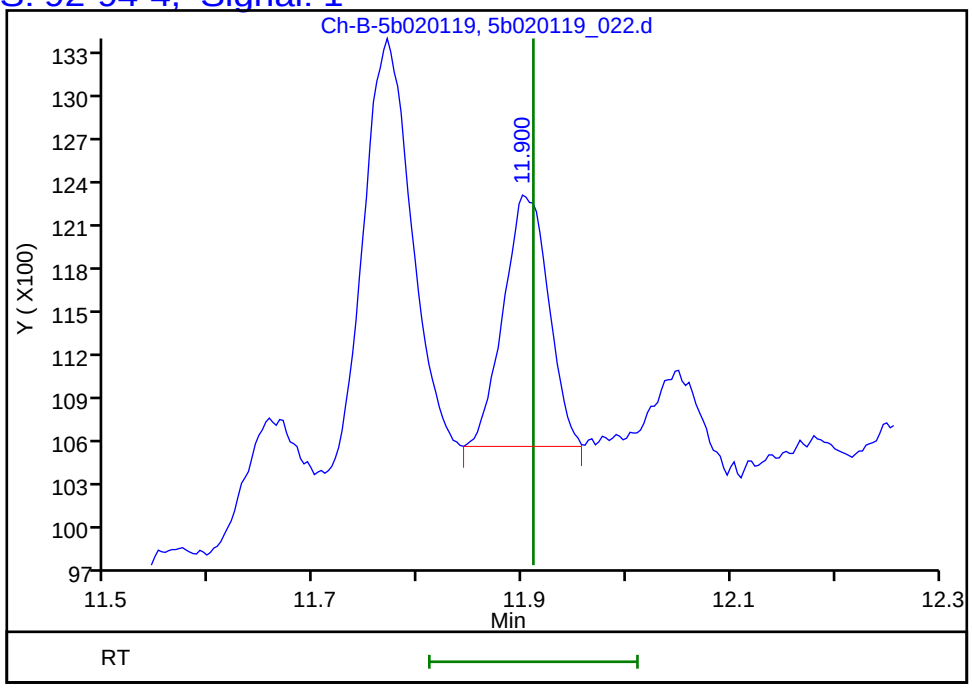
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190201-56396.b\5b020119_022.d				
Injection Date:	01-Feb-2019 19:17:40	Instrument ID:	CHDRO5		
Lims ID:	720-90961-E-16-E	Lab Sample ID:	720-90961-16		
Client ID:	DUP-110				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.90
Response: 25788
Amount: 2.245258



Reviewer: luj, 04-Feb-2019 11:04:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600 3002

720-90961 Chain of Custody Record

1/22/19 1 of 2
188046

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/22/2019	COC No. 188046
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			720-90961 Chain of Custody
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-AK11s-0.5-1	1/22/19	0820	G	S	7	N	N	X	X	X	X	X	X	X	
2	DG-AK11s-3.5-4	↓	0820	↓	↓	7	↓	N	X	X	X	X	X	X	X	
3	DG-AM11s-0.5-1	↓	0840	↓	↓	7	N	N	X	X	X	~	X	X	X	
4	DG-AM11s-3.5-4	↓	0840	↓	↓	7	N	N	~	~	~	~	~	X	X	
5	DG-AO11s-0.5-1	↓	0900	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6	DG-AO11s-3.5-4	↓	0900	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
7	DG-AB13s-0.5-1	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
8	DG-AB13s-3.5-4	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
9	DG-AB13s-13.5-14	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10	DG-AA15s-0.5-1	↓	1345	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
11	DG-X13s-0.5-1	↓	1430	↓	↓	10	↓	Y	↓	↓	↓	↓	↓	↓	↓	
12	DUP-77	↓	—	↓	↓	7	↓	N	↓	↓	↓	↓	↓	↓	↓	

Page 126 of 132

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C): Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company: Geosyntec	Date/Time: 1/22/19 1645	Received by	Company: TAPLS	Date/Time: 1/22/19 1630
Relinquished by	Company: TAPLS	Date/Time: 1/22/19 1840	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/22/19 1840

2-2 | 1-3 | 1.8 | 3.8C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-90961

Chain of Custody Record

1/22/19 2 of 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188046

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: Jan 22 2018	COC No. 188046
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

1/23/19

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
DG-XB5-3.5-4	1/22/2018	1430	G	S	7	N		X	X	X	X	X	X	X	
~~DG-XB5-(10)~~															
DG-R9S 0.5-1		1530			7										
DG-R9S 3.5-4		1530			7										
DUP-110		—			7										

Page 127 of 132

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C). Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Geosyntec	1/22/2018	1630		TA-PLS	1/22/19 1631
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TA-PLS	1/22/19 1840			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	1/22/19 1840

3.2/1.7/1.8/1.8 C

Tues. 1/22/19
GEOSYNTEC Terra Cores
720-90961

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC02

FedEx Express Package(s) - Dropped Off
478645742565

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 22, 2019 4:44:46 PM

Ref:	Date: 22Jan19	SHIPPING:	0.00
Dep:	Wgt: 40.00 LBS	SPECIAL:	0.00
		HANDLING:	0.00
	DV: 100.00	TOTAL:	0.00

Svcs: PRIORITY OVERNIGHT

TRCK: 4786 4574 2565

720-90961-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478604542565	COC No: 720-40921.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90961-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B_LL/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AK11S-0.5-1 (720-90961-1)	1/22/19	08:20 Pacific		Solid	X	X	
DG-AK11S-3.5-4 (720-90961-2)	1/22/19	08:20 Pacific		Solid	X	X	
DG-AM11S-0.5-1 (720-90961-3)	1/22/19	08:40 Pacific		Solid	X	X	
DG-AM11S-3.5-4 (720-90961-4)	1/22/19	08:40 Pacific		Solid	X	X	
DG-AO11S-0.5-1 (720-90961-5)	1/22/19	09:00 Pacific		Solid	X	X	
DG-AO11S-3.5-4 (720-90961-6)	1/22/19	09:00 Pacific		Solid	X	X	
DG-AB13S-0.5-1 (720-90961-7)	1/22/19	11:00 Pacific		Solid	X	X	
DG-AB13S-3.5-4 (720-90961-8)	1/22/19	11:00 Pacific		Solid	X	X	
DG-AB13S-13.5-14 (720-90961-9)	1/22/19	11:00 Pacific		Solid	X	X	

720-90961 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment: FED-EX 2nd

Relinquished by:	Date/Time: 1/22/19 16:44	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/23/19 1000	Company TA IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Encores or Terracores Frozen
Date: 1/23/19 Time: 1045 Initials: KG

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40921.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90961-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AA15S-0.5-1 (720-90961-10)	1/22/19	13:45 Pacific		Solid	X	X	4
DG-X13S-0.5-1 (720-90961-11)	1/22/19	14:30 Pacific		Solid	X	X	3
DG-X13S-0.5-1 (720-90961-11MS)	1/22/19	14:30 Pacific	MS	Solid	X	X	3
DG-X13S-0.5-1 (720-90961-11MSD)	1/22/19	14:30 Pacific	MSD	Solid	X	X	2
DUP-77 (720-90961-12)	1/22/19	Pacific		Solid	X	X	4
DG-X13S-3.5-4 (720-90961-13)	1/22/19	14:30 Pacific		Solid	X	X	
DG-R9S-0.5-1 (720-90961-14)	1/22/19	15:30 Pacific		Solid	X	X	
DG-R9S-3.5-4 (720-90961-15)	1/22/19	15:30 Pacific		Solid	X	X	
DUP-110 (720-90961-16)	1/22/19	Pacific		Solid	X	X	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/22/19 16:44	TA-PLS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/23/19 1000	Company TA IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90961

Chain of Custody Record

Jan 1/22/19 2 of 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188046

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: Jan 22 2019	COC No: 188046
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.:
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
DG-X13s-3.5-4	1/22/19	1430	G	S	7	N		X	X	X	X	X	X	X	
~~DG-X13s-(DUP)~~															
DG-R9s-0.5-1		1530			7										
DG-R9s-3.5-4		1530			7										
DUP-110		—			7										

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: MEC	Date/Time: 1/22/2019 1635	Received by:	Company: TA PLS	Date/Time: 1/22/19 1631
Relinquished by:	Company: TA PLS	Date/Time: 1/22/19 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/22/19 1840

2.2/1.7-8/9-8 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/22/19

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90961 Chain of Custody Record

1/22/19 1 of 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

880/6

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/22/2019	COC No: 880/6
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			720-90961 Chain of Custody
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
DG-AK11s-0.5-1	1/22/19	0820	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AK11s-3.5-4	↓	0820	↓	↓	7	↓	N	X	X	X	X	X	X	X	
DG-AM11s-0.5-1	↓	0840	↓	↓	7	N	N	X	X	X	X	X	X	X	
DG-AM11s-3.5-4	↓	0840	↓	↓	7	N	N	X	X	X	X	X	X	X	
DG-AO11s-0.5-1	↓	0900	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AO11s-3.5-4	↓	0900	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-0.5-1	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-3.5-4	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AB13s-13.5-14	↓	1100	↓	↓	7	↓	↓	↓	↓	↓	↓	↓	↓	↓	
DG-AA15s-0.5-1	↓	1345	↓	↓	7	↓	↓								
DG-X13s-0.5-1	↓	1430	↓	↓	10	↓	Y	↓	↓	↓	↓	↓	↓	↓	
DUP-77	↓	—	↓	↓	7	↓	N	↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1/22/19 1650	Received by:	Company: TAPLS	Date/Time: 1/22/19 1630
Relinquished by:	Company: TAPLS	Date/Time: 1/22/19 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/22/19 1840

2-2 | 1.3 | 1.8 | 3.8 C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/22/19

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-90981-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Jill Kellmann
Manager of Project Management
2/14/2019 5:09 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/14/2019

cc: Bill Chen
Miranda Kahrilas
Ms. Urvashi Patel
Mr. Tony Smith
Mary Tyler

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Table of Contents

Cover Title Page 1

Organic Sample Data 3

GC Semi VOA 3

Method 8015B - DRO 3

Method 8015B - DRO Sample Data 3

Shipping and Receiving Documents 132

Client Chain of Custody 132

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a044.d				
Lims ID:	720-90981-F-1-C				
Client ID:	DG-AR13S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 03:39:37	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:47:24	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:47:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		1190493	360.3	
$ 127 n-Octacosane	7.098	7.095	0.003	303439	93.1	
A 136 C24-C36	7.544	(5.902-9.187)		2974123	900.2	

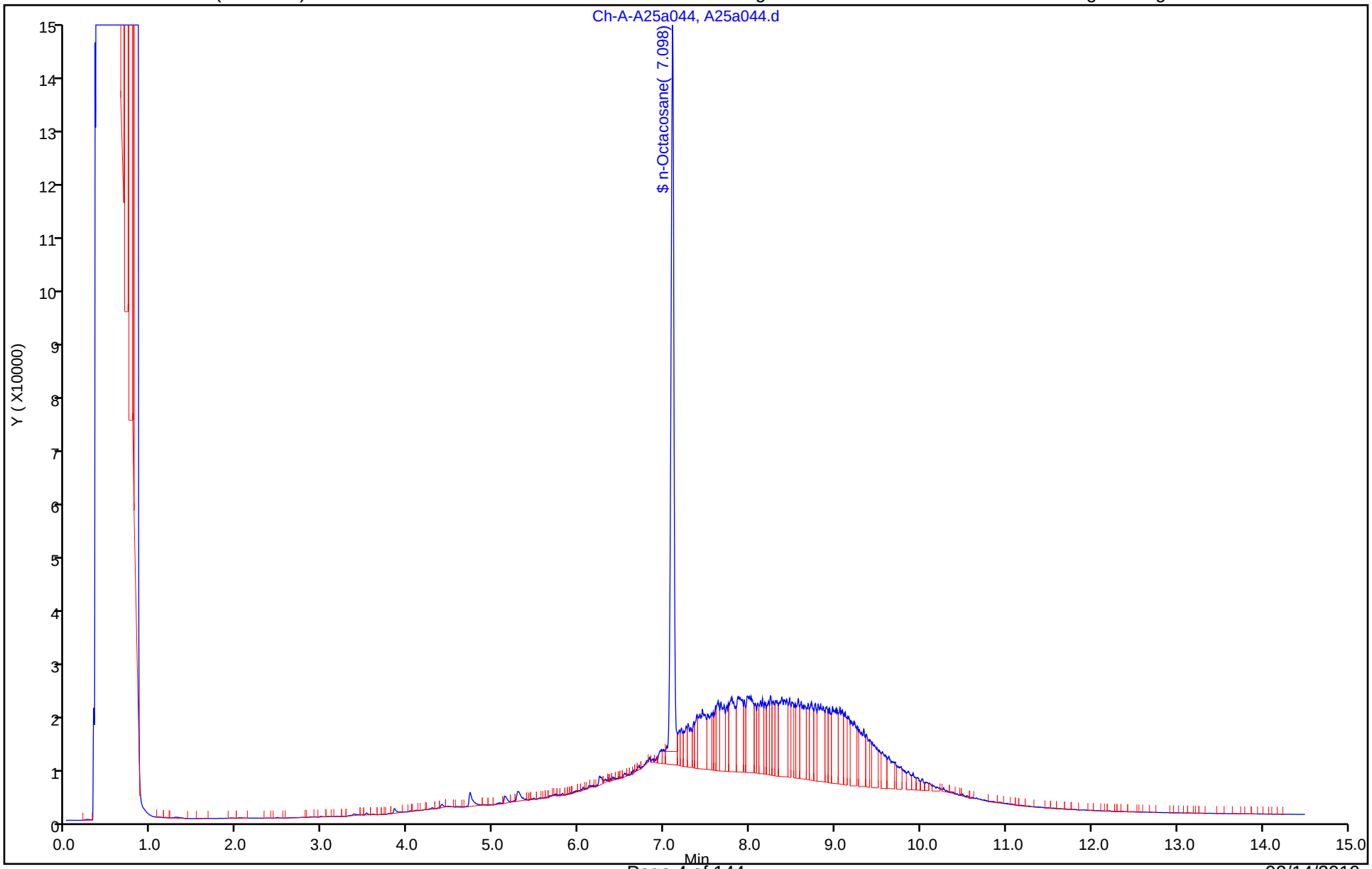
Report Date: 28-Jan-2019 09:47:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a044.d

Injection Date:	26-Jan-2019 03:39:37	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-1-C	Lab Sample ID:	440-90981-1	Worklist Smp#:	44
Client ID:	DG-AR13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a044.d				
Lims ID:	720-90981-F-1-C				
Client ID:	DG-AR13S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 03:39:37	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:47:24	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:47:24

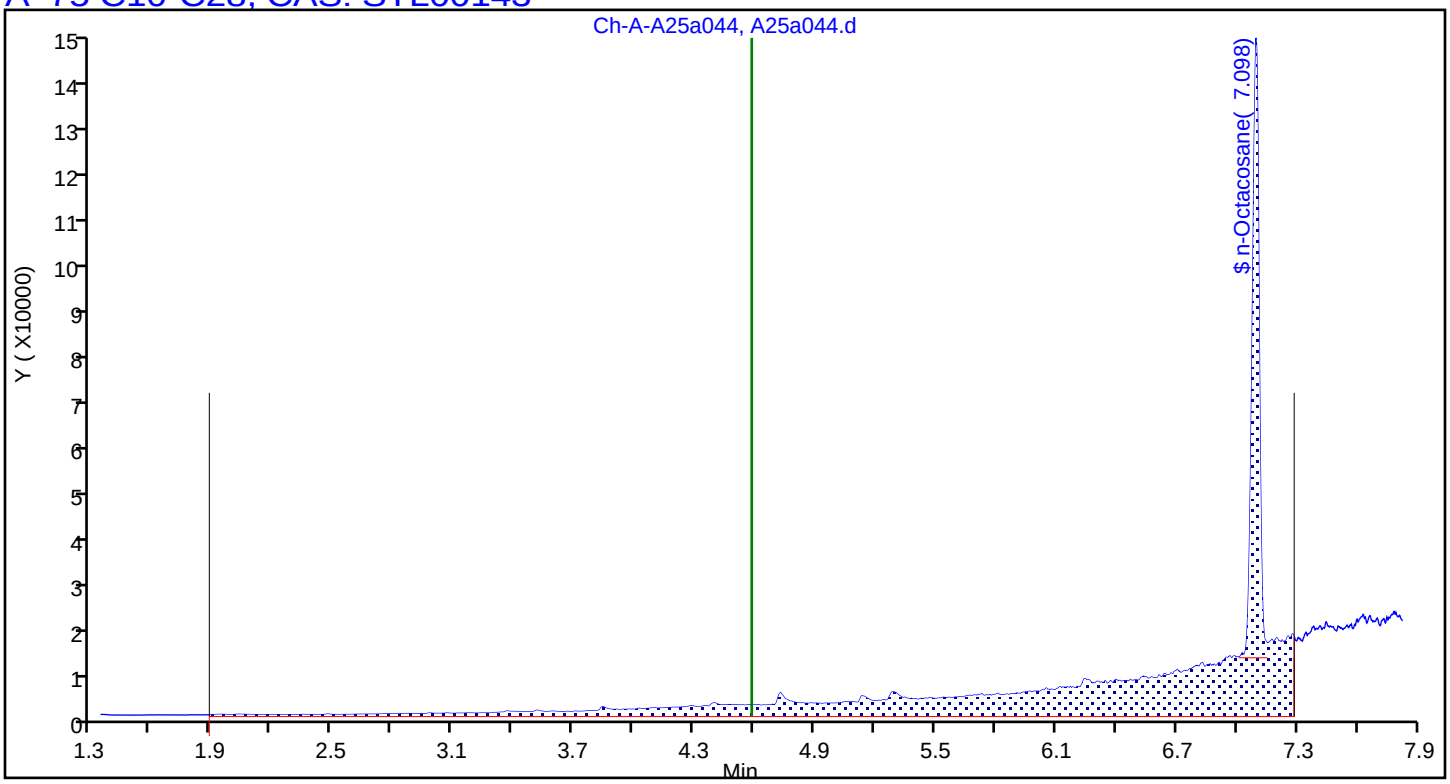
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	93.1	0.00

Report Date: 28-Jan-2019 09:47:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a044.d				
Injection Date:	26-Jan-2019 03:39:37	Instrument ID:	GC69A		
Lims ID:	720-90981-F-1-C	Lab Sample ID:	440-90981-1		
Client ID:	DG-AR13S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

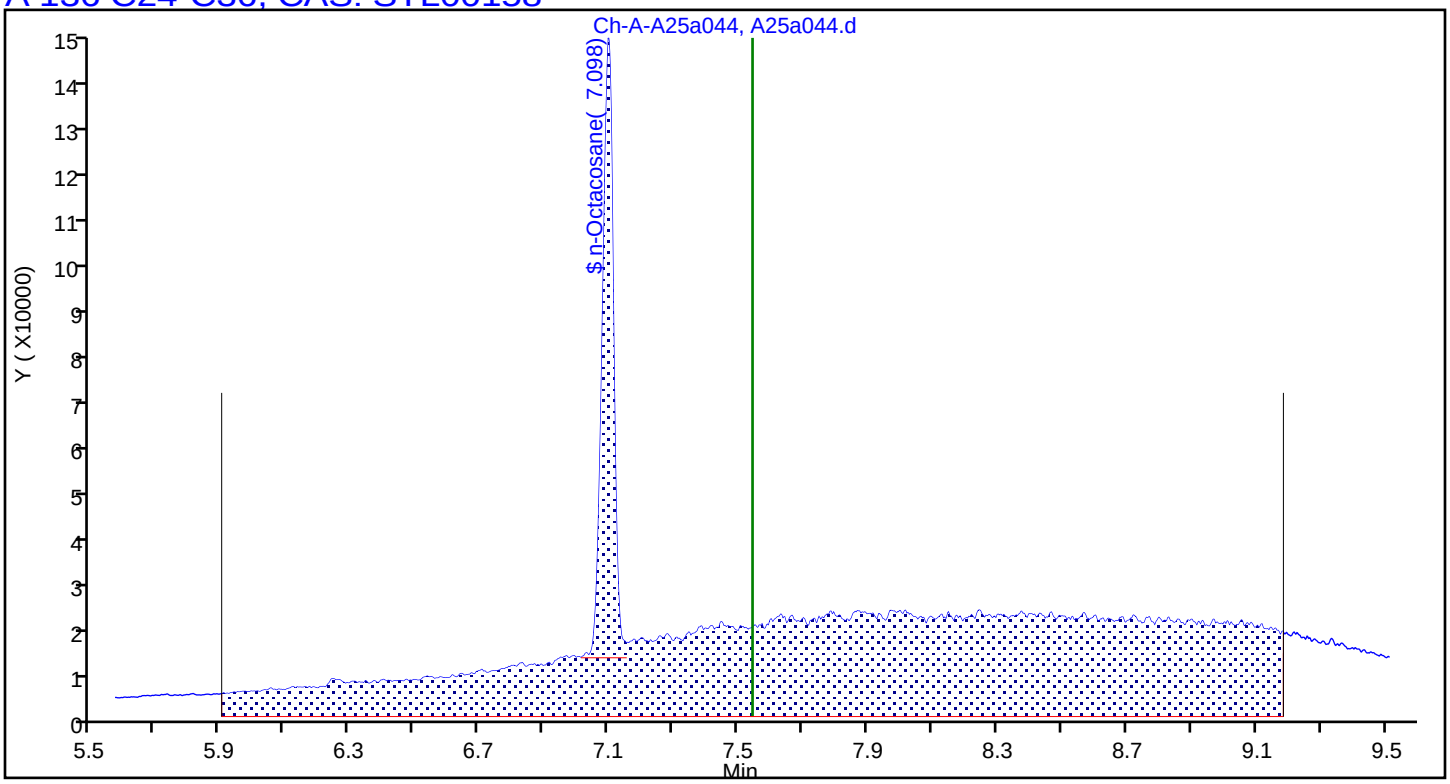


Report Date: 28-Jan-2019 09:47:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a044.d				
Injection Date:	26-Jan-2019 03:39:37	Instrument ID:	GC69A		
Lims ID:	720-90981-F-1-C	Lab Sample ID:	440-90981-1		
Client ID:	DG-AR13S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a069.d				
Lims ID:	720-90981-F-2-A				
Client ID:	DG-AR13S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 12:08:01	ALS Bottle#:	0	Worklist Smp#:	69
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:59:27	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:59:27		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		681837	206.4	
$ 127 n-Octacosane	7.103	7.095	0.008	570951	175.2	
A 136 C24-C36	7.544	(5.902-9.187)		1145921	346.8	

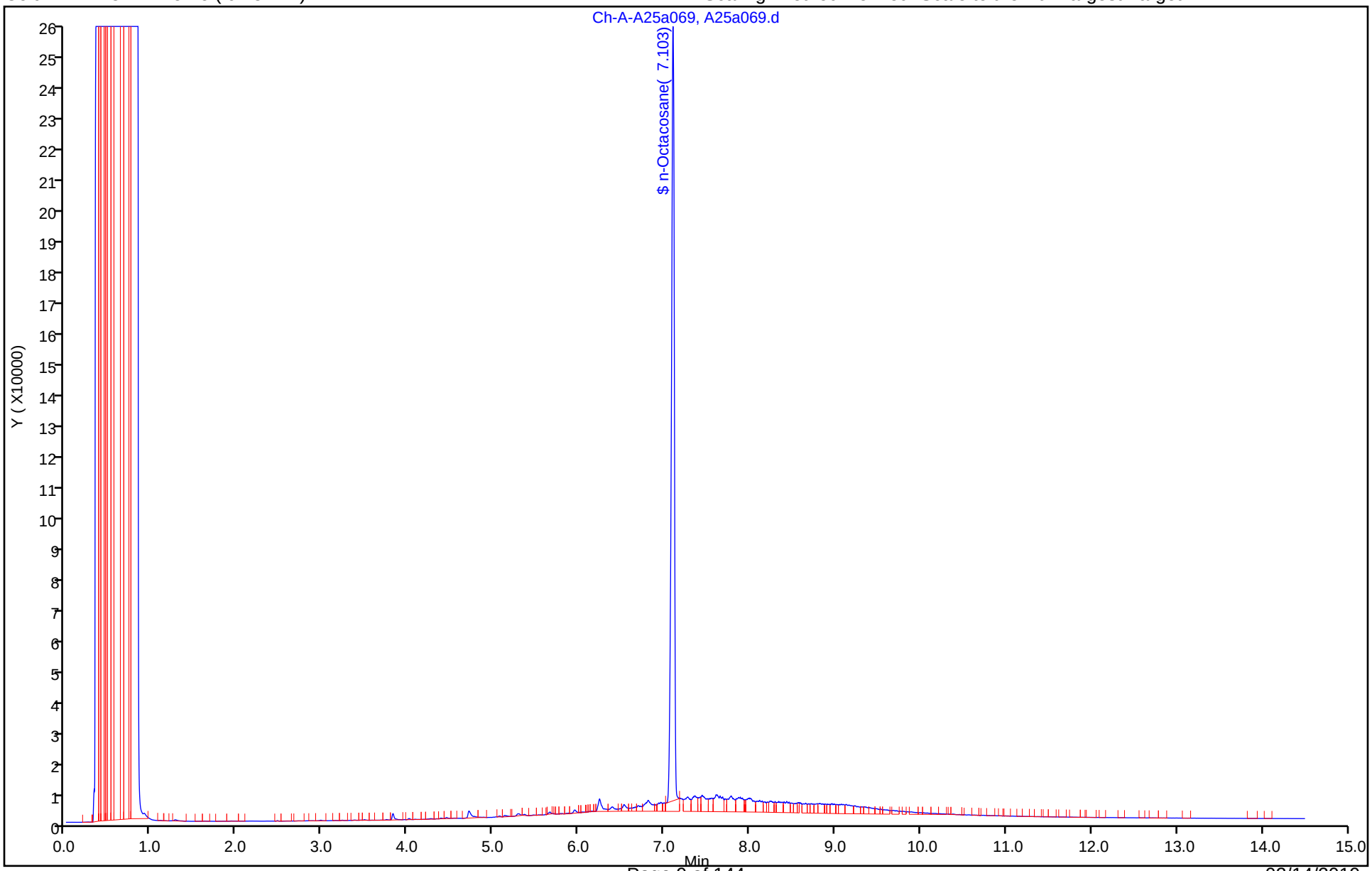
Report Date: 28-Jan-2019 09:59:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a069.d

Injection Date:	26-Jan-2019 12:08:01	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-2-A	Lab Sample ID:	440-90981-2	Worklist Smp#:	69
Client ID:	DG-AR13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a069.d				
Lims ID:	720-90981-F-2-A				
Client ID:	DG-AR13S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 12:08:01	ALS Bottle#:	0	Worklist Smp#:	69
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:59:27	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:59:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	175.2	0.00

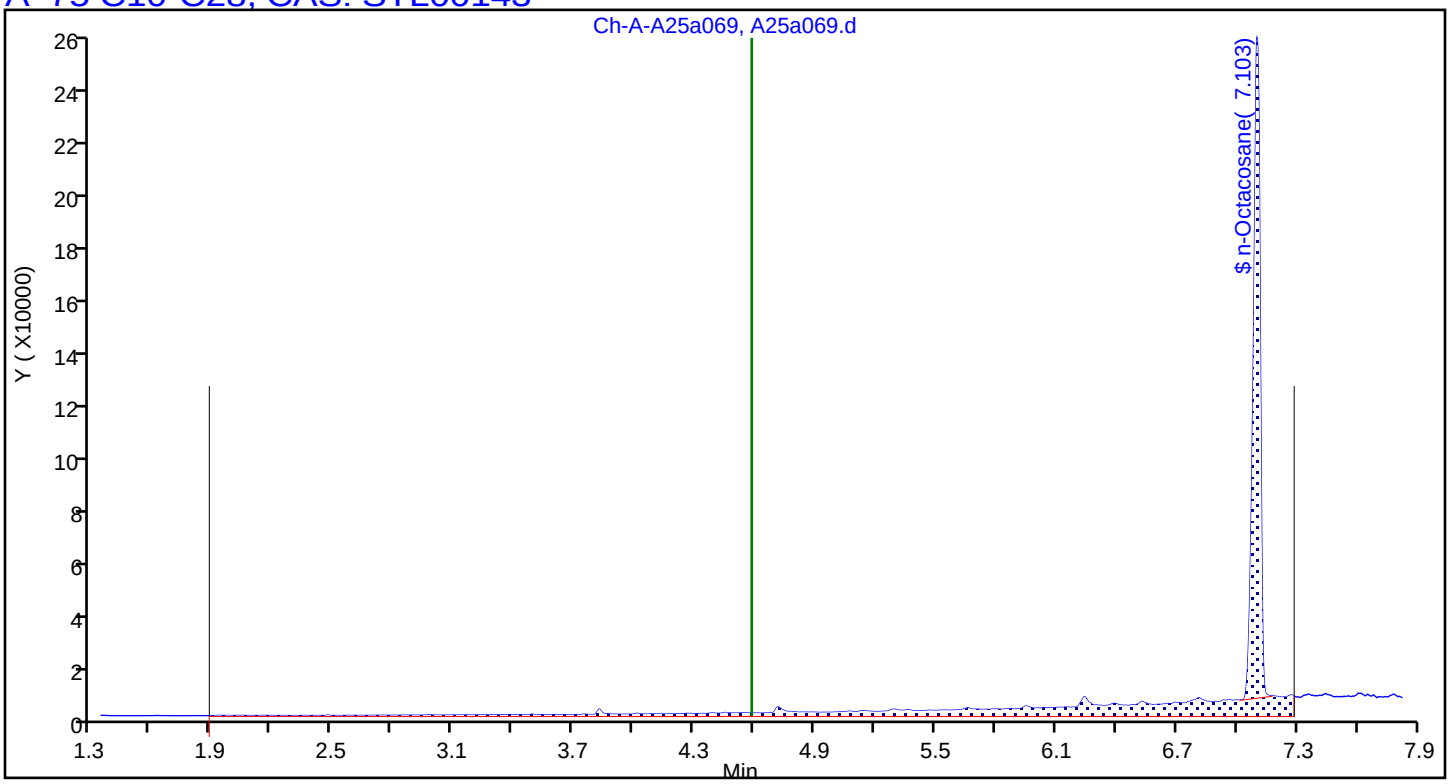
Report Date: 28-Jan-2019 09:59:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a069.d

Injection Date:	26-Jan-2019 12:08:01	Instrument ID:	GC69A		
Lims ID:	720-90981-F-2-A	Lab Sample ID:	440-90981-2		
Client ID:	DG-AR13S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	69
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

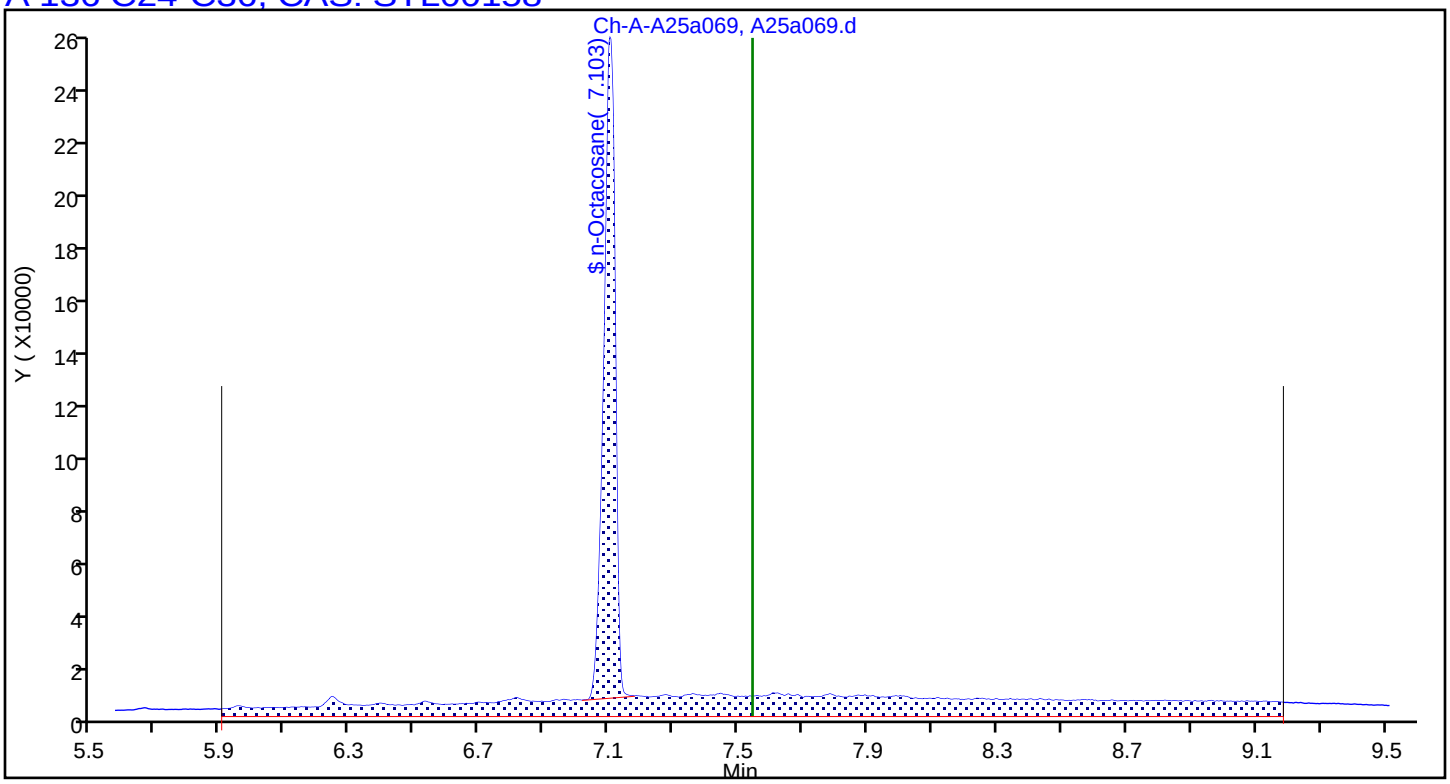


Report Date: 28-Jan-2019 09:59:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a069.d				
Injection Date:	26-Jan-2019 12:08:01	Instrument ID:	GC69A		
Lims ID:	720-90981-F-2-A	Lab Sample ID:	440-90981-2		
Client ID:	DG-AR13S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	69
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a056.d				
Lims ID:	720-90981-F-3-A				
Client ID:	DG-AR13S-9.5-10				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 07:43:55	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:56:32	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:56:32		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		193141	58.5	
$ 127 n-Octacosane	7.103	7.095	0.008	579072	177.7	
A 136 C24-C36	7.544	(5.902-9.187)		205499	62.2	

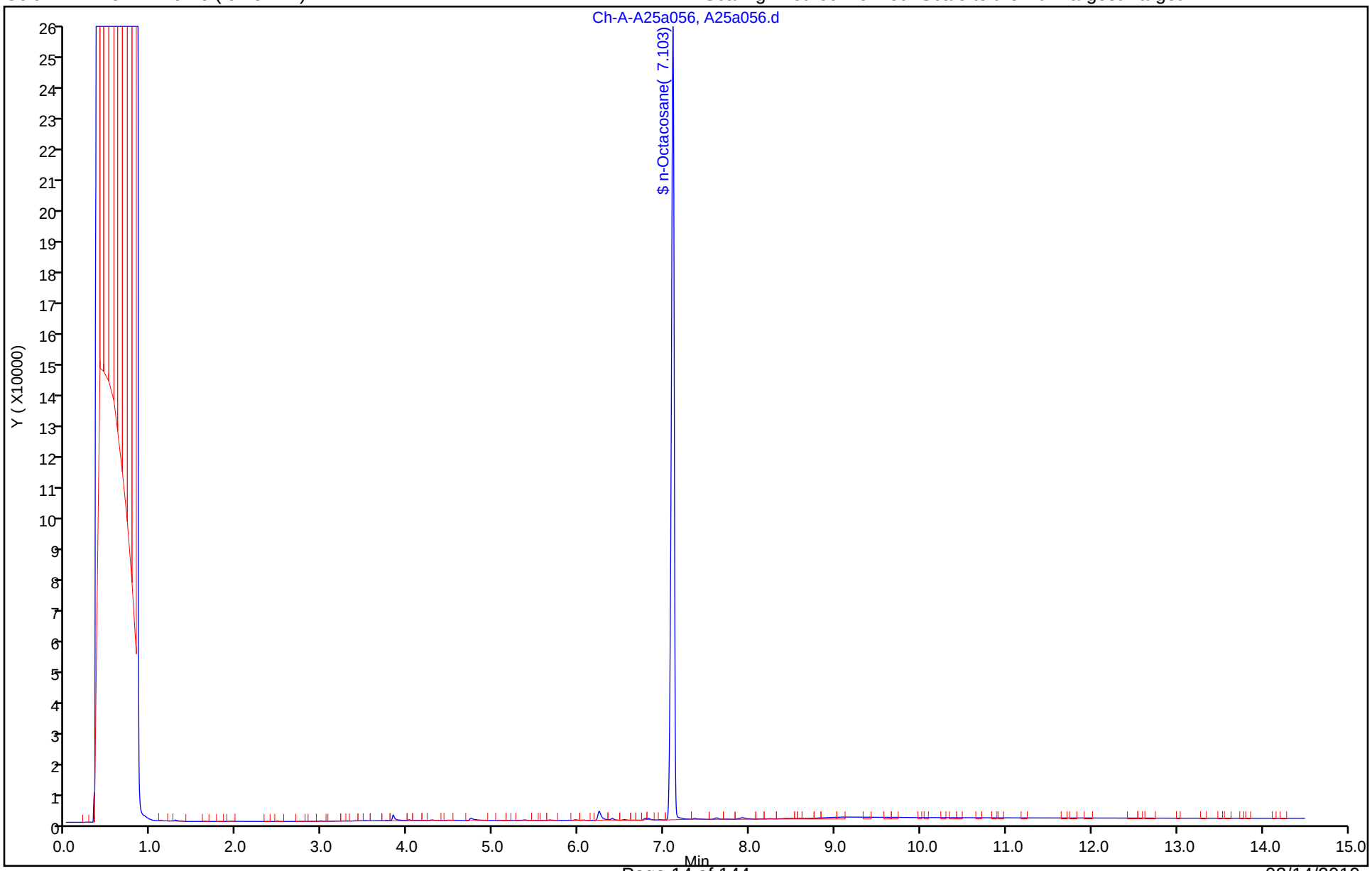
Report Date: 28-Jan-2019 09:56:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a056.d

Injection Date:	26-Jan-2019 07:43:55	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-3-A	Lab Sample ID:	440-90981-3	Worklist Smp#:	56
Client ID:	DG-AR13S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a056.d				
Lims ID:	720-90981-F-3-A				
Client ID:	DG-AR13S-9.5-10				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 07:43:55	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:56:32	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:56:32

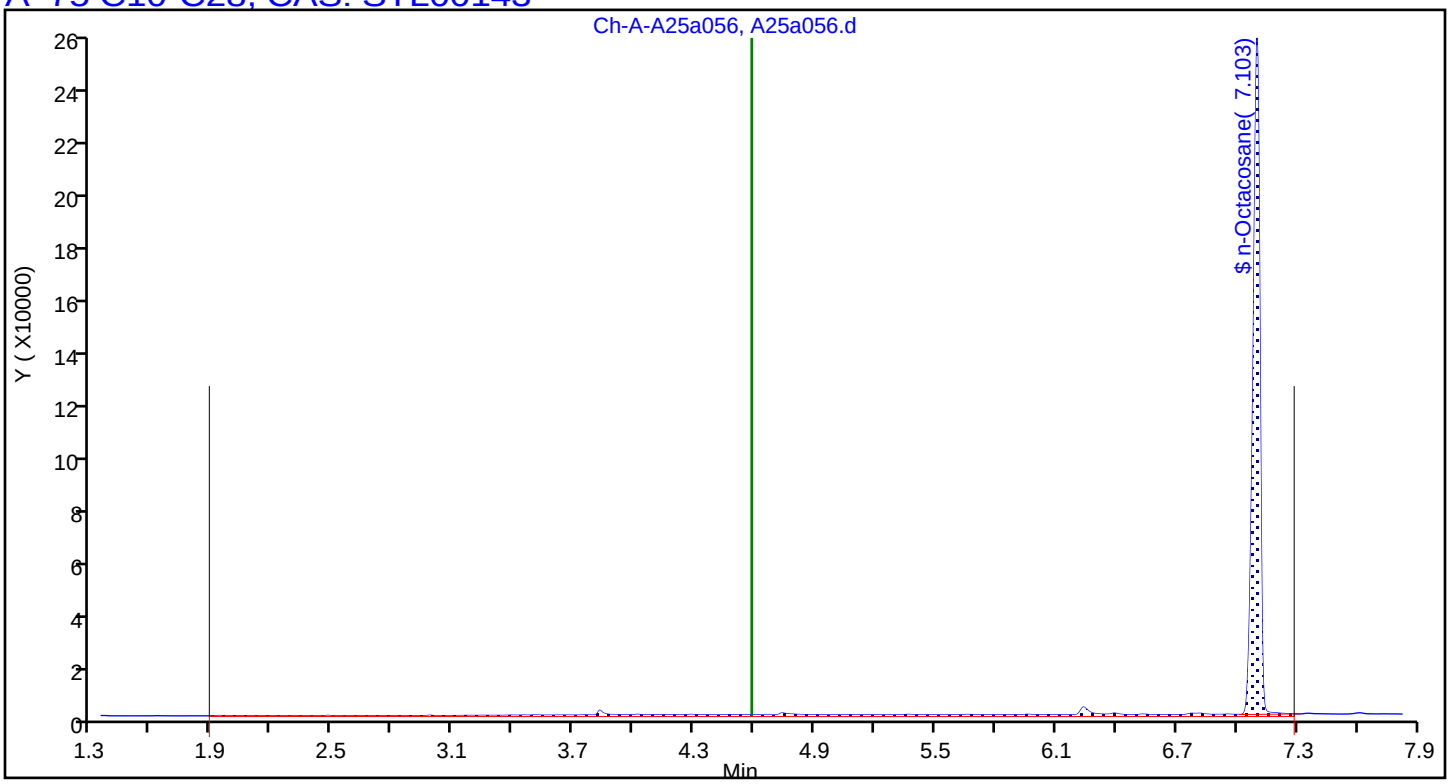
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	177.7	0.00

Report Date: 28-Jan-2019 09:56:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a056.d				
Injection Date:	26-Jan-2019 07:43:55	Instrument ID:	GC69A		
Lims ID:	720-90981-F-3-A	Lab Sample ID:	440-90981-3		
Client ID:	DG-AR13S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

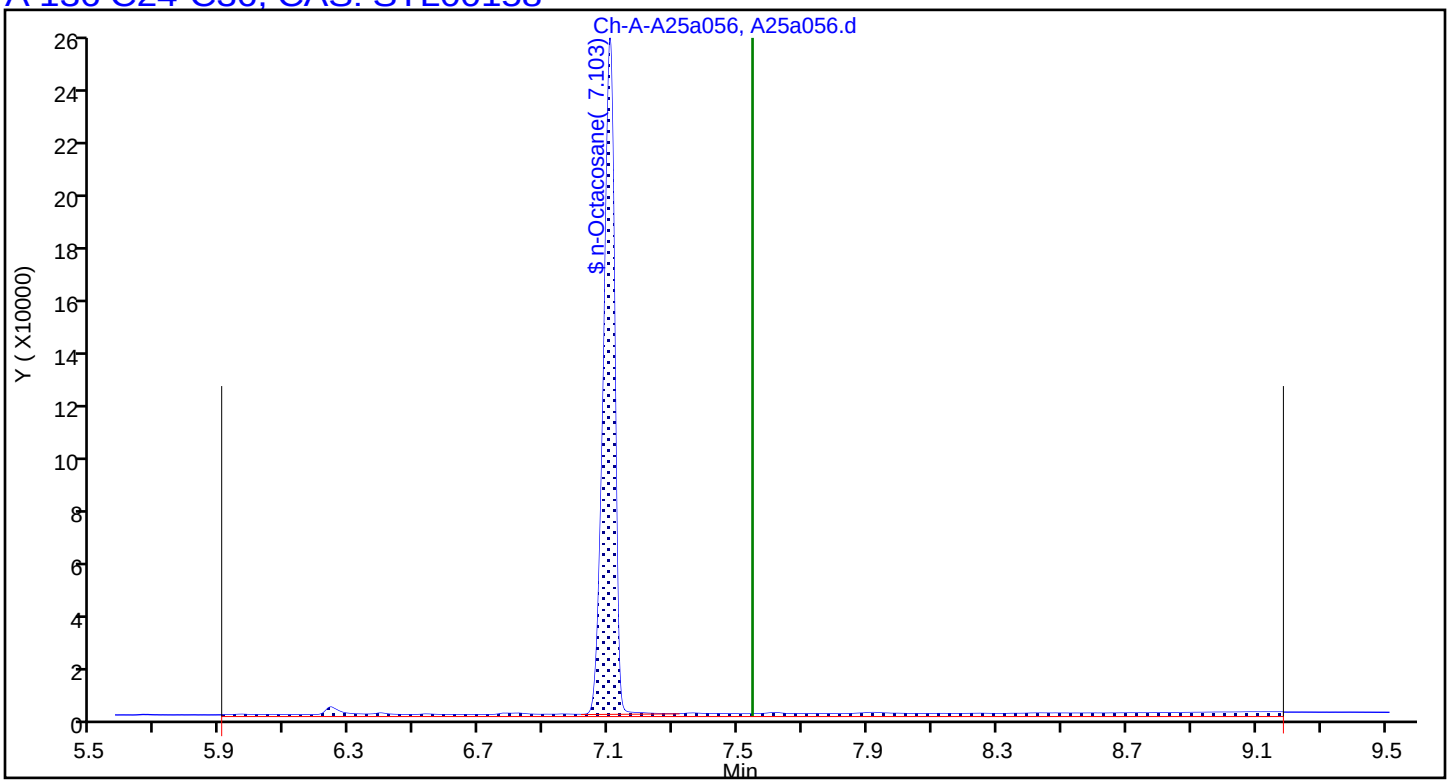


Report Date: 28-Jan-2019 09:56:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a056.d				
Injection Date:	26-Jan-2019 07:43:55	Instrument ID:	GC69A		
Lims ID:	720-90981-F-3-A	Lab Sample ID:	440-90981-3		
Client ID:	DG-AR13S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a048.d				
Lims ID:	720-90981-F-4-A				
Client ID:	DG-AP13S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 05:01:02	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:53:53	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:53:53		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		3150178	953.5	
$ 127 n-Octacosane	7.107	7.095	0.012	333523	102.4	
A 136 C24-C36	7.544	(5.902-9.187)		6667673	2018.2	

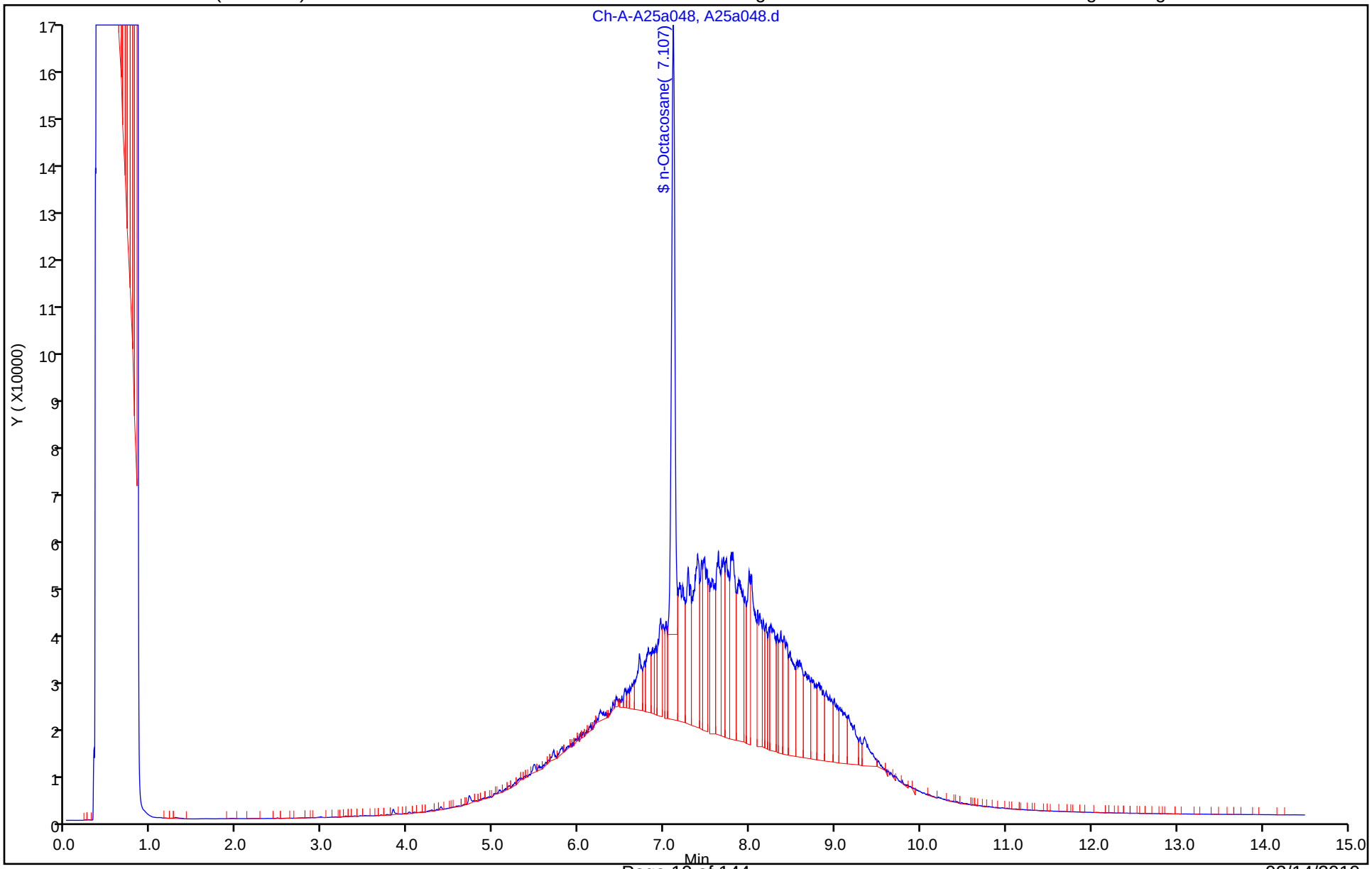
Report Date: 28-Jan-2019 09:53:54 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a048.d

Injection Date:	26-Jan-2019 05:01:02	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-4-A	Lab Sample ID:	440-90981-4	Worklist Smp#:	48
Client ID:	DG-AP13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a048.d				
Lims ID:	720-90981-F-4-A				
Client ID:	DG-AP13S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 05:01:02	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:53:53	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:53:53

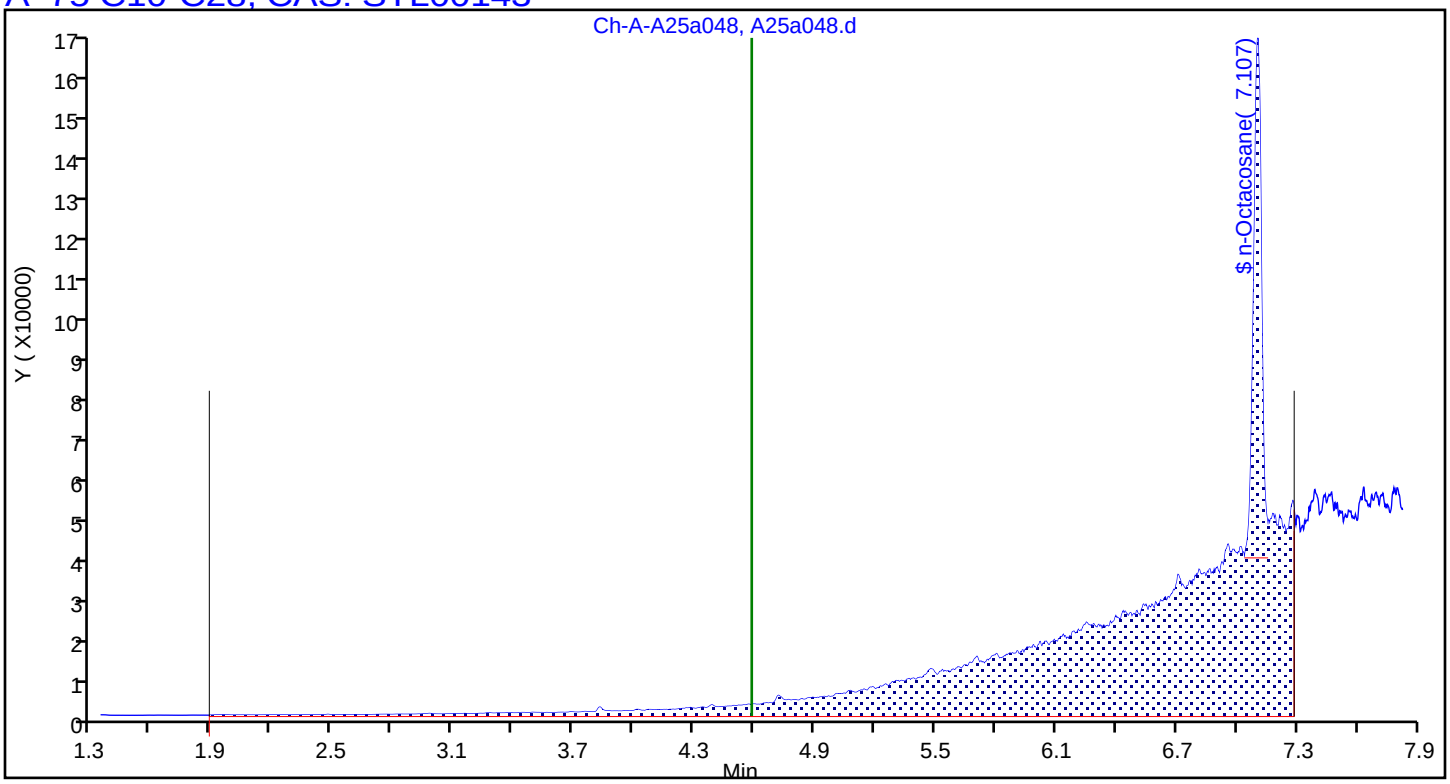
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	102.4	0.00

Report Date: 28-Jan-2019 09:53:54 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a048.d				
Injection Date:	26-Jan-2019 05:01:02	Instrument ID:	GC69A		
Lims ID:	720-90981-F-4-A	Lab Sample ID:	440-90981-4		
Client ID:	DG-AP13S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

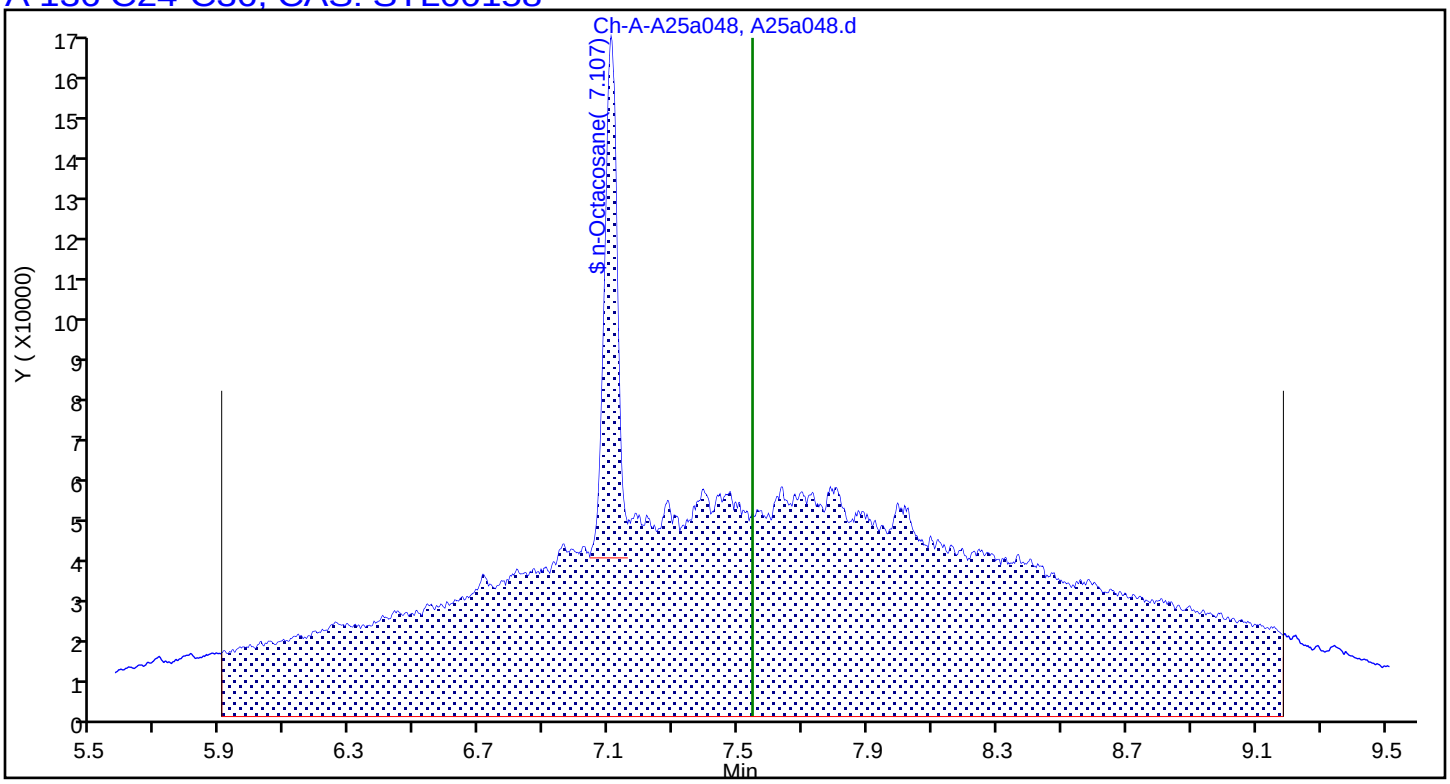


Report Date: 28-Jan-2019 09:53:54 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a048.d				
Injection Date:	26-Jan-2019 05:01:02	Instrument ID:	GC69A		
Lims ID:	720-90981-F-4-A	Lab Sample ID:	440-90981-4		
Client ID:	DG-AP13S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a070.d				
Lims ID:	720-90981-F-5-A				
Client ID:	DG-AP13S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 12:28:21	ALS Bottle#:	0	Worklist Smp#:	70
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:59:40	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:59:40		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		569014	172.2	
$ 127 n-Octacosane	7.102	7.095	0.007	521107	159.9	
A 136 C24-C36	7.544	(5.902-9.187)		859180	260.1	

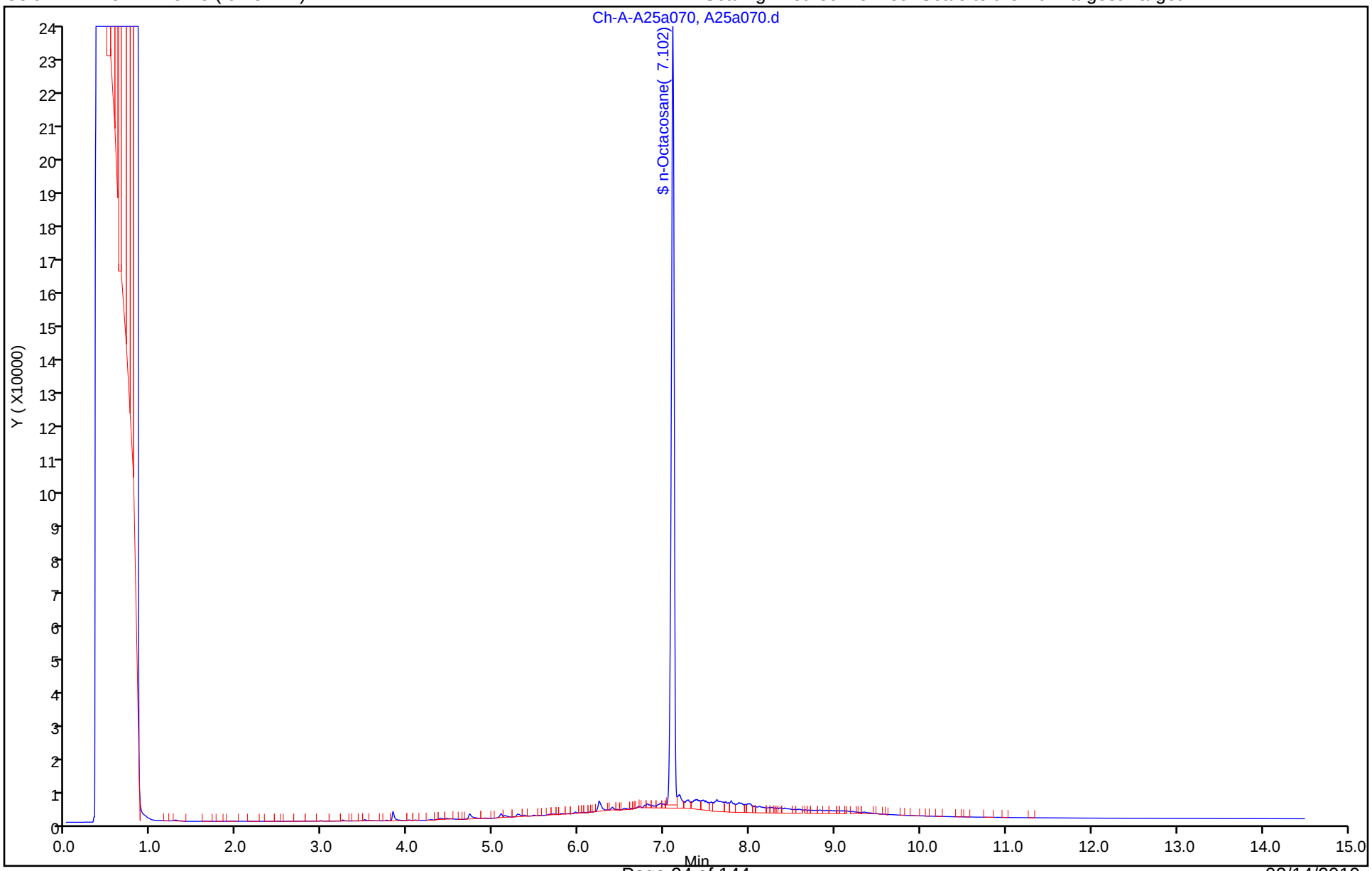
Report Date: 28-Jan-2019 09:59:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a070.d

Injection Date:	26-Jan-2019 12:28:21	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-5-A	Lab Sample ID:	440-90981-5	Worklist Smp#:	70
Client ID:	DG-AP13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a070.d				
Lims ID:	720-90981-F-5-A				
Client ID:	DG-AP13S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 12:28:21	ALS Bottle#:	0	Worklist Smp#:	70
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:59:40	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:59:40		

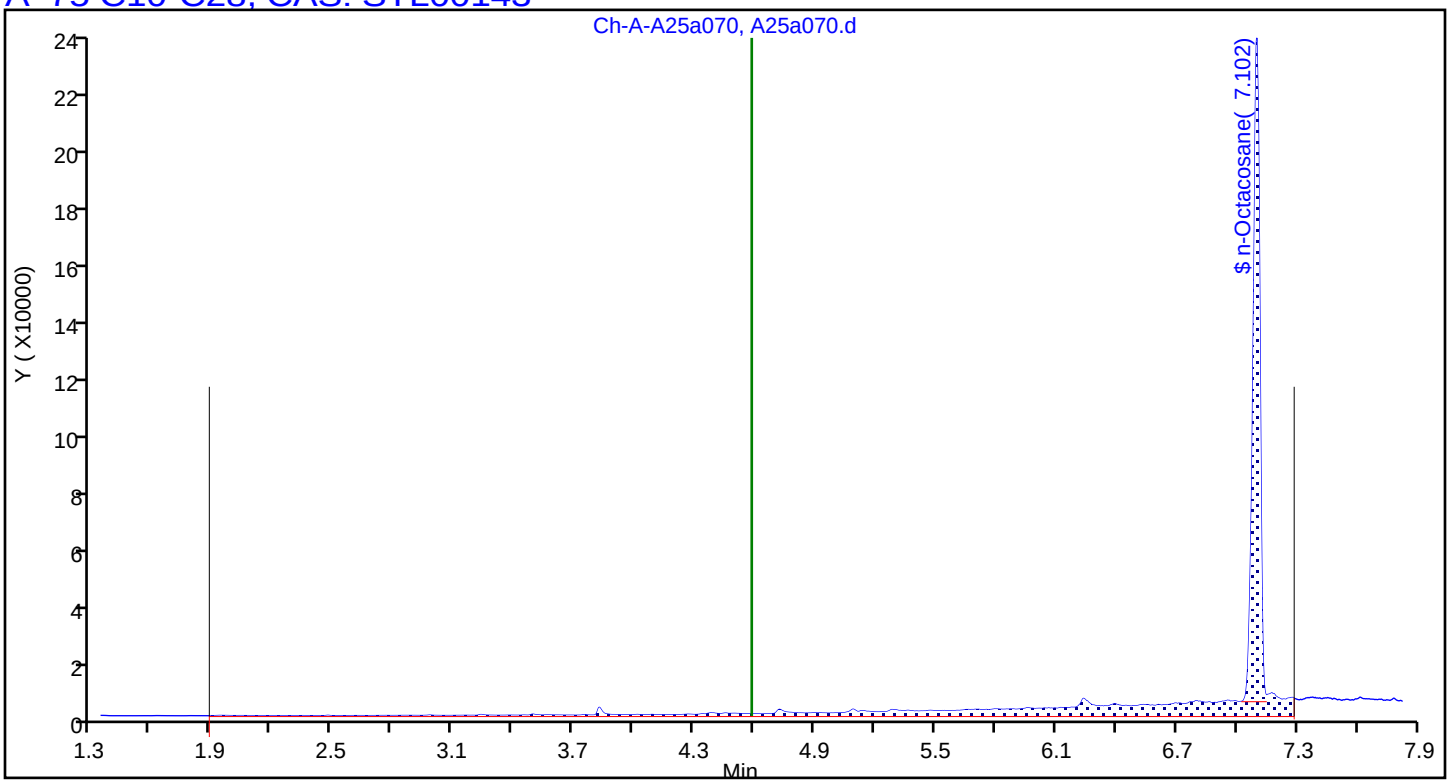
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	159.9	0.00

Report Date: 28-Jan-2019 09:59:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a070.d				
Injection Date:	26-Jan-2019 12:28:21	Instrument ID:	GC69A		
Lims ID:	720-90981-F-5-A	Lab Sample ID:	440-90981-5		
Client ID:	DG-AP13S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	70
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

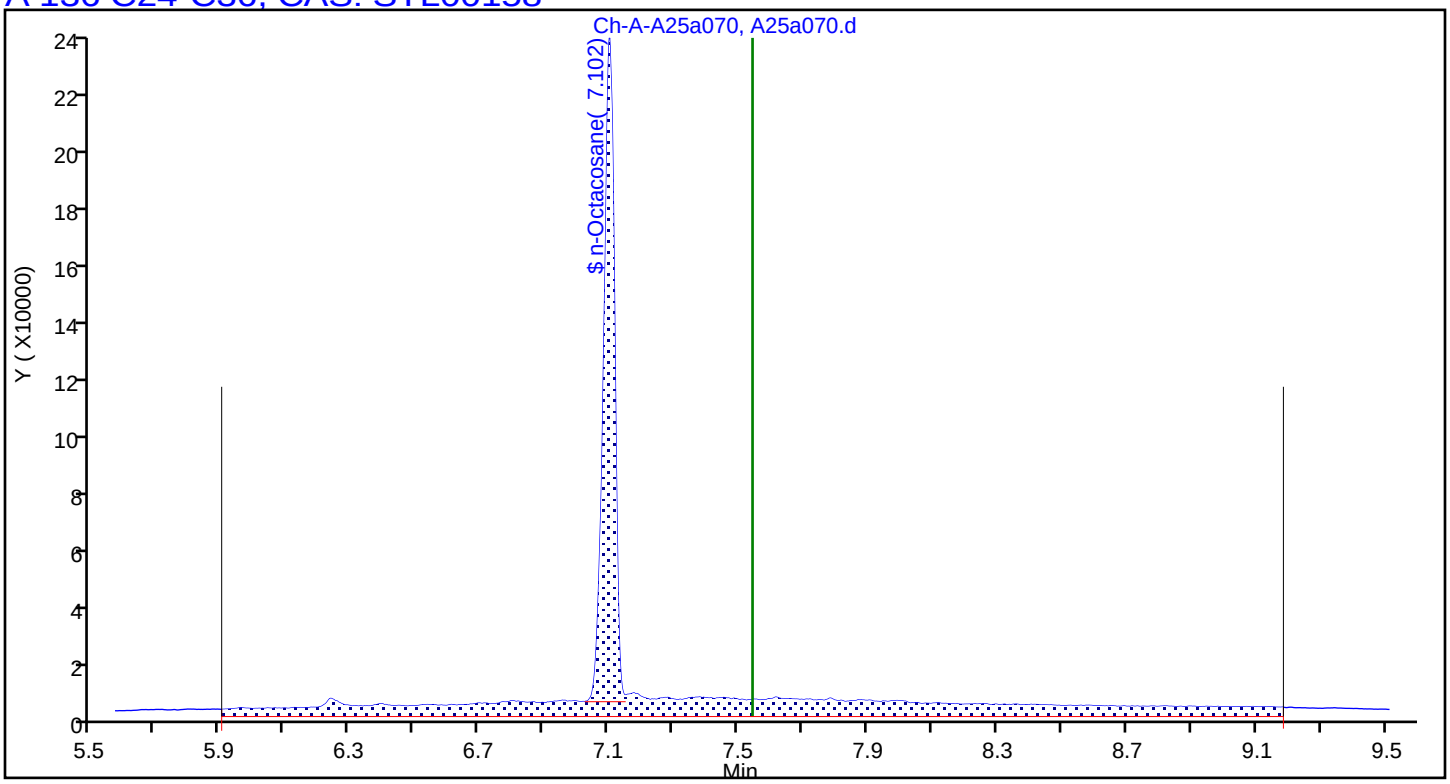


Report Date: 28-Jan-2019 09:59:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a070.d				
Injection Date:	26-Jan-2019 12:28:21	Instrument ID:	GC69A		
Lims ID:	720-90981-F-5-A	Lab Sample ID:	440-90981-5		
Client ID:	DG-AP13S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	70
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a067.d				
Lims ID:	720-90981-F-6-A				
Client ID:	DG-AP13S-9.5-10				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 11:27:35	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:59:02	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:59:02		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		527169	159.6	
$ 127 n-Octacosane	7.103	7.095	0.008	546336	167.7	
A 136 C24-C36	7.544	(5.902-9.187)		406162	122.9	

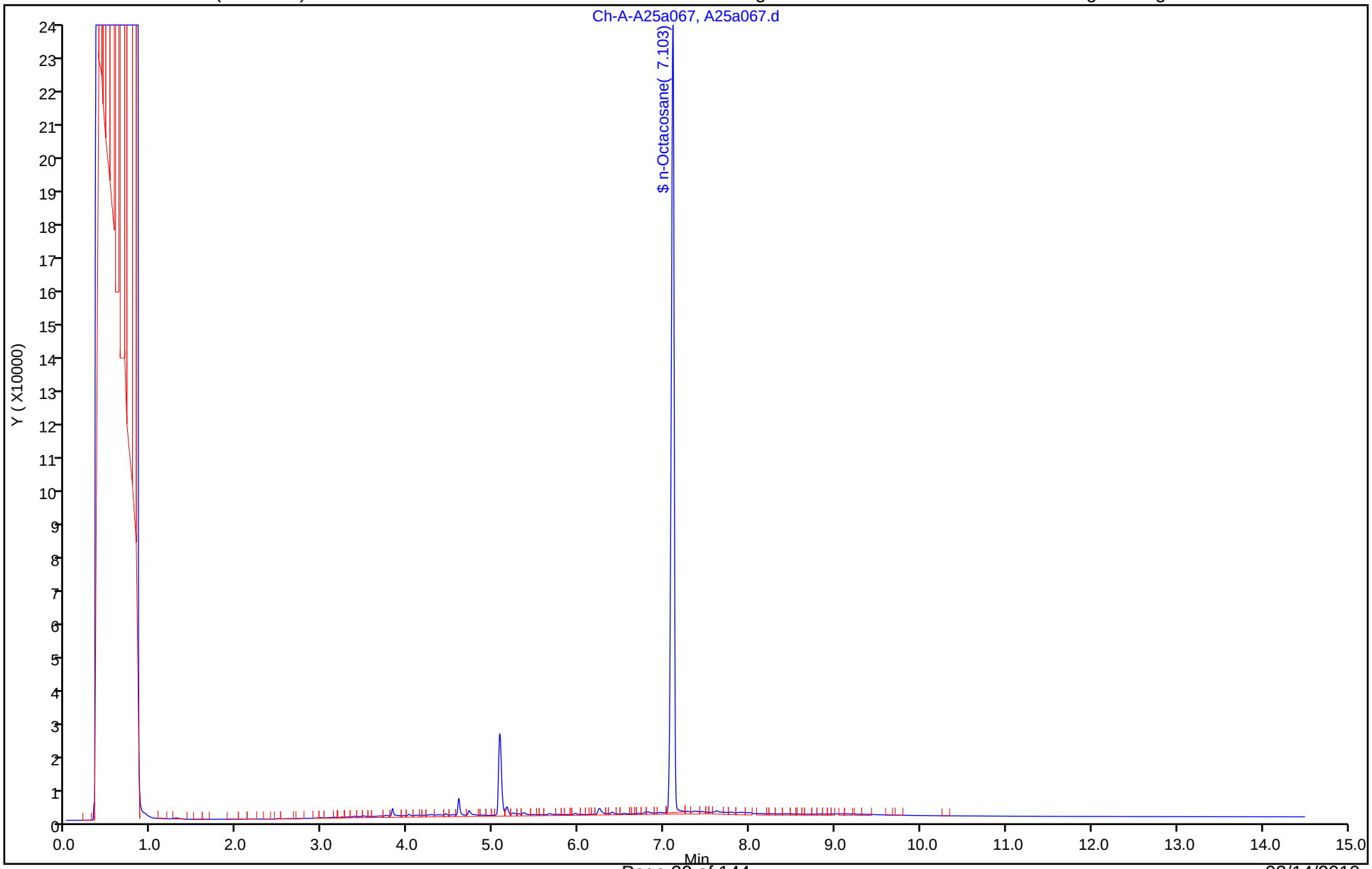
Report Date: 28-Jan-2019 09:59:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a067.d

Injection Date:	26-Jan-2019 11:27:35	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-6-A	Lab Sample ID:	440-90981-6	Worklist Smp#:	67
Client ID:	DG-AP13S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a067.d				
Lims ID:	720-90981-F-6-A				
Client ID:	DG-AP13S-9.5-10				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 11:27:35	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:59:02	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:59:02

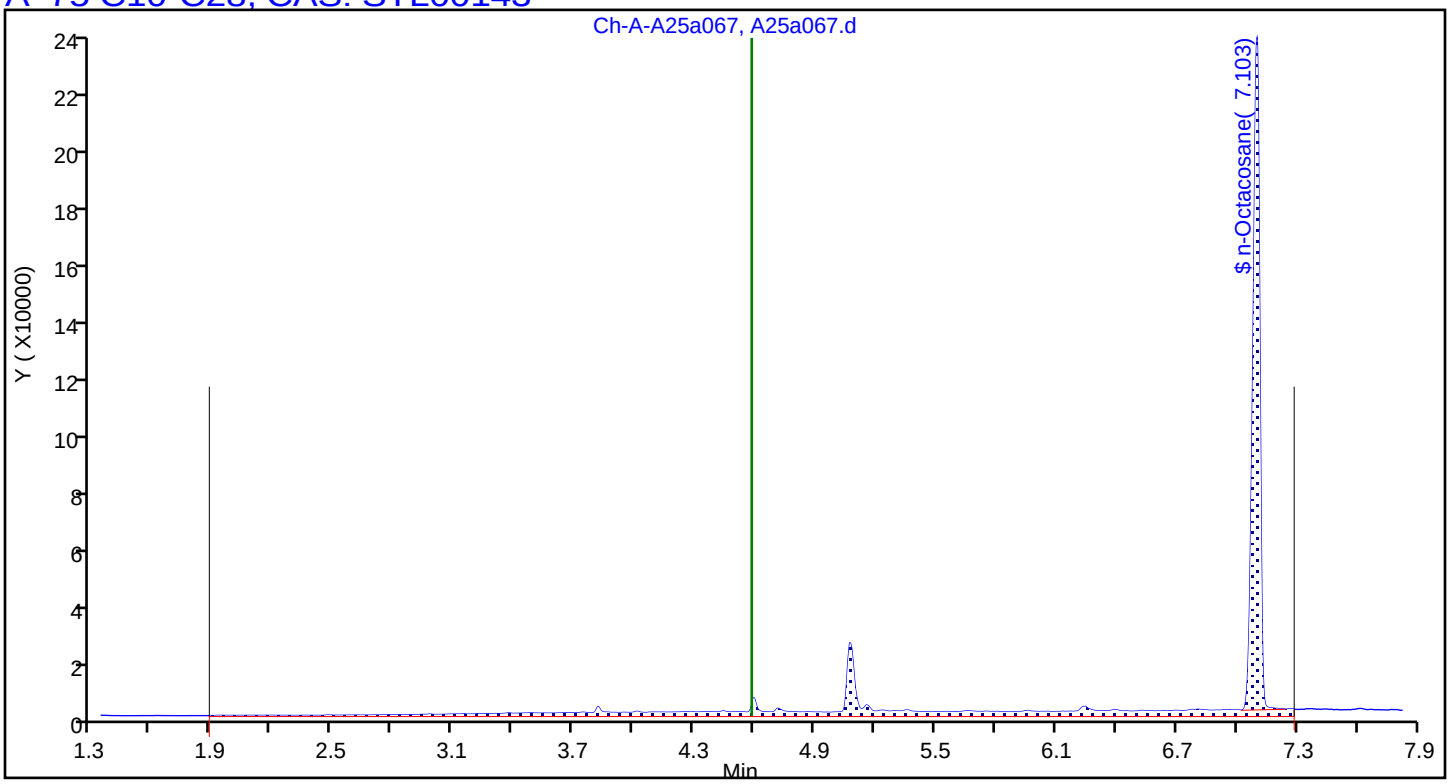
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	167.7	0.00

Report Date: 28-Jan-2019 09:59:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a067.d				
Injection Date:	26-Jan-2019 11:27:35	Instrument ID:	GC69A		
Lims ID:	720-90981-F-6-A	Lab Sample ID:	440-90981-6		
Client ID:	DG-AP13S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

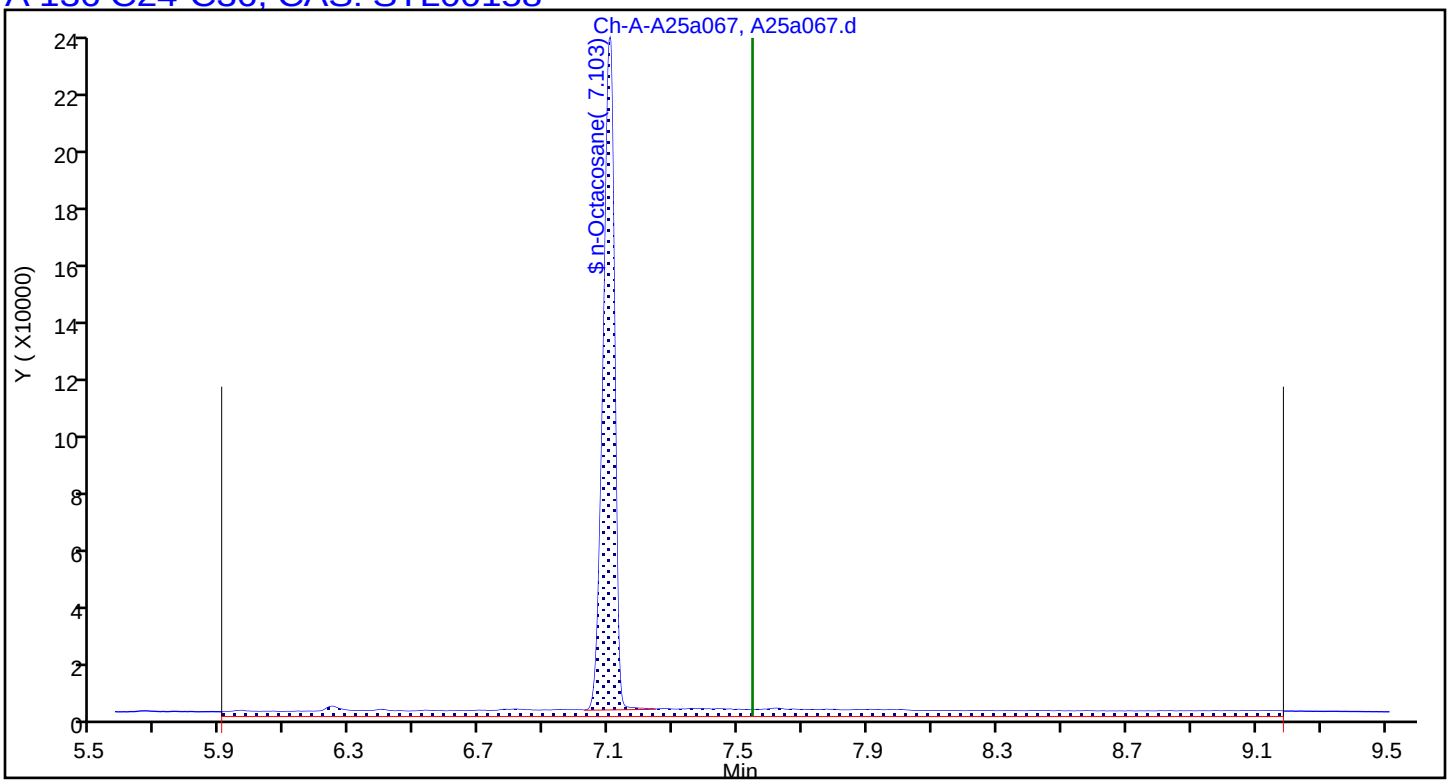


Report Date: 28-Jan-2019 09:59:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a067.d				
Injection Date:	26-Jan-2019 11:27:35	Instrument ID:	GC69A		
Lims ID:	720-90981-F-6-A	Lab Sample ID:	440-90981-6		
Client ID:	DG-AP13S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a063.d				
Lims ID:	720-90981-F-7-A				
Client ID:	DG-AK15S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 10:06:11	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:58:04	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:58:04		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.593	(1.898-7.288)		703170	212.8	
$ 127 n-Octacosane	7.107	7.095	0.012	556898	170.9	
A 136 C24-C36	7.544	(5.902-9.187)		991739	300.2	

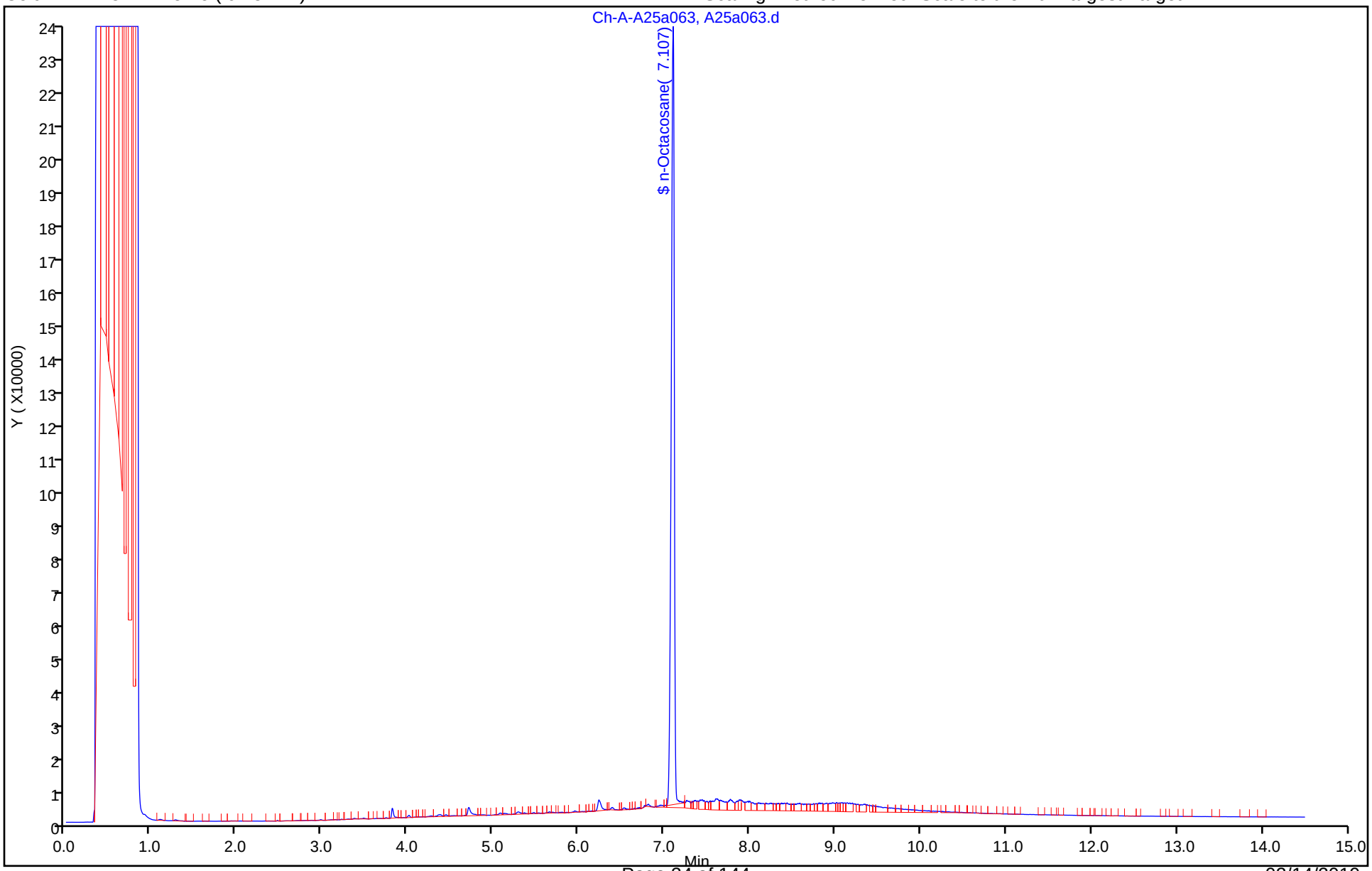
Report Date: 28-Jan-2019 09:58:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a063.d

Injection Date:	26-Jan-2019 10:06:11	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-7-A	Lab Sample ID:	440-90981-7	Worklist Smp#:	63
Client ID:	DG-AK15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a063.d				
Lims ID:	720-90981-F-7-A				
Client ID:	DG-AK15S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 10:06:11	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:58:04	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:58:04

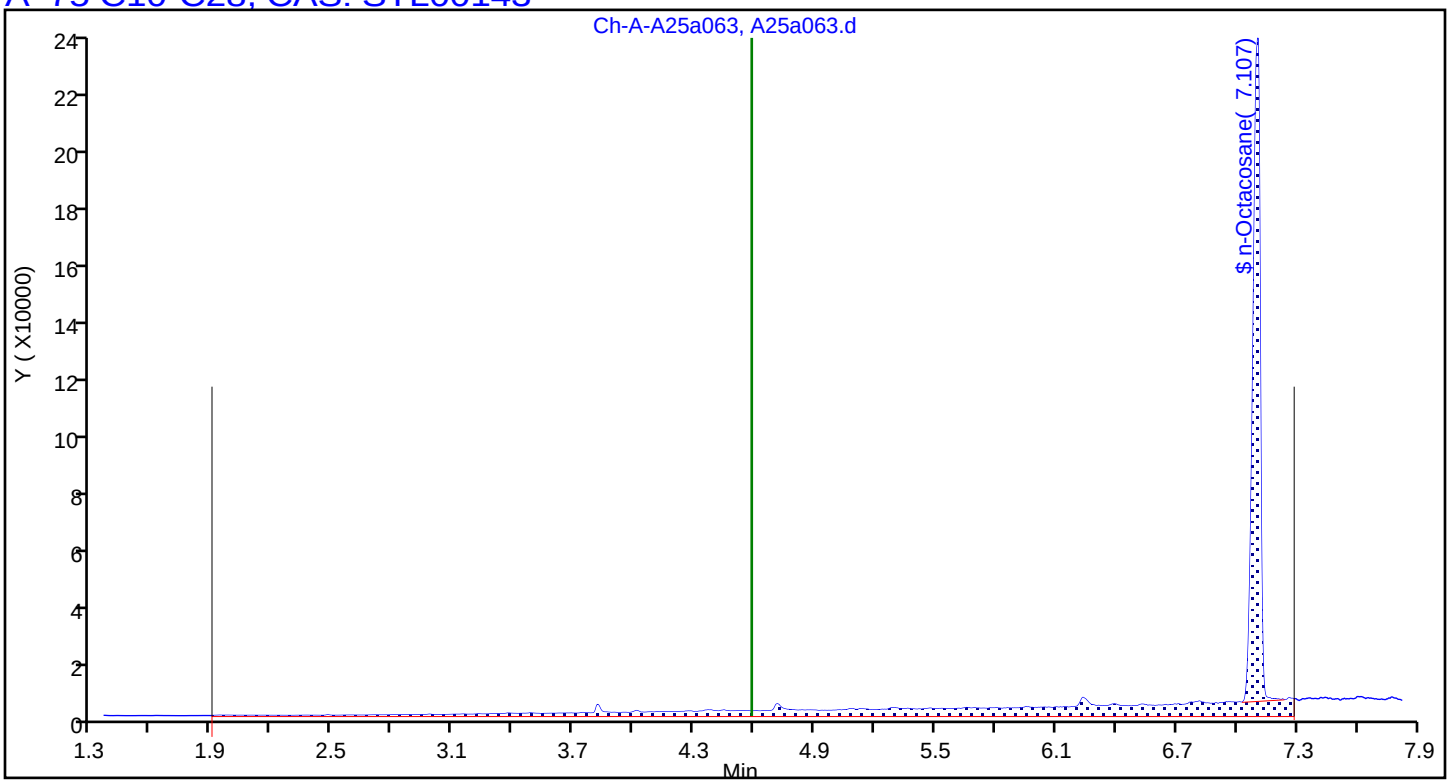
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	170.9	0.00

Report Date: 28-Jan-2019 09:58:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a063.d				
Injection Date:	26-Jan-2019 10:06:11	Instrument ID:	GC69A		
Lims ID:	720-90981-F-7-A	Lab Sample ID:	440-90981-7		
Client ID:	DG-AK15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

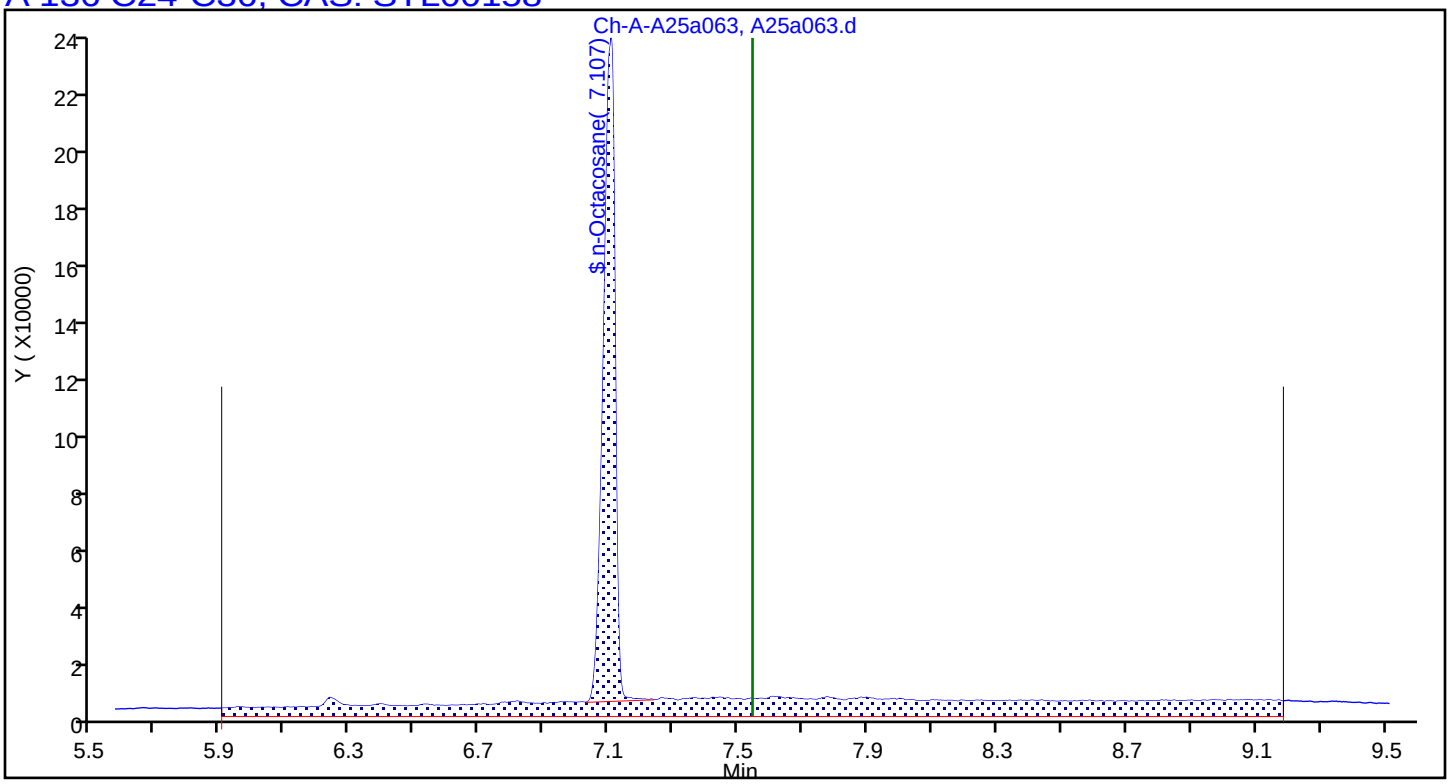


Report Date: 28-Jan-2019 09:58:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a063.d				
Injection Date:	26-Jan-2019 10:06:11	Instrument ID:	GC69A		
Lims ID:	720-90981-F-7-A	Lab Sample ID:	440-90981-7		
Client ID:	DG-AK15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a049.d				
Lims ID:	720-90981-F-8-A				
Client ID:	DG-AK15S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 05:21:30	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:54:07	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:54:07		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.614	(1.940-7.288)		3475837	1052.1	
$ 127 n-Octacosane	7.100	7.095	0.005	313346	96.2	
A 136 C24-C36	7.544	(5.902-9.187)		2333379	706.3	

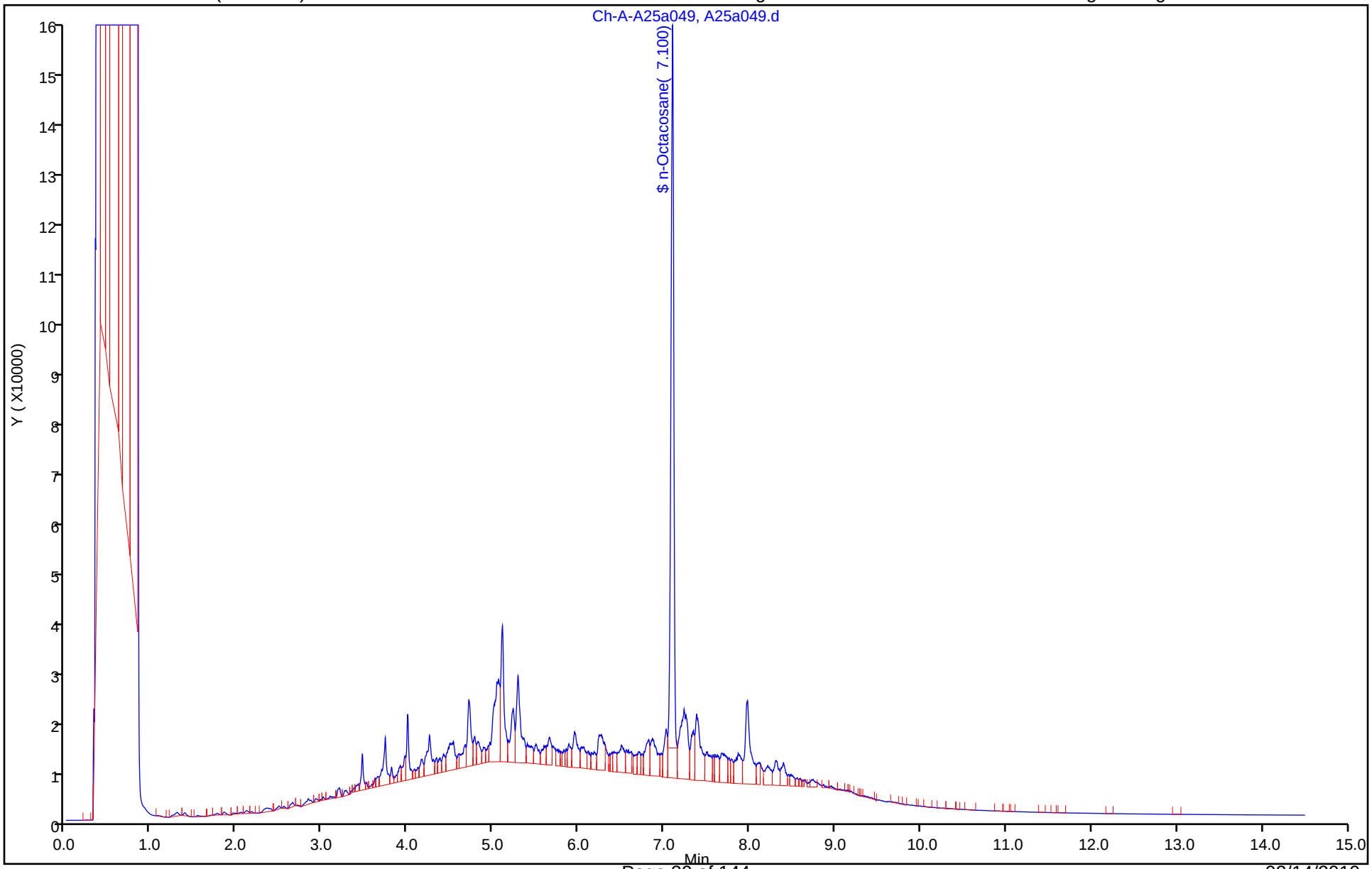
Report Date: 28-Jan-2019 09:54:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a049.d

Injection Date:	26-Jan-2019 05:21:30	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-8-A	Lab Sample ID:	440-90981-8	Worklist Smp#:	49
Client ID:	DG-AK15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a049.d				
Lims ID:	720-90981-F-8-A				
Client ID:	DG-AK15S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 05:21:30	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:54:07	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:54:07

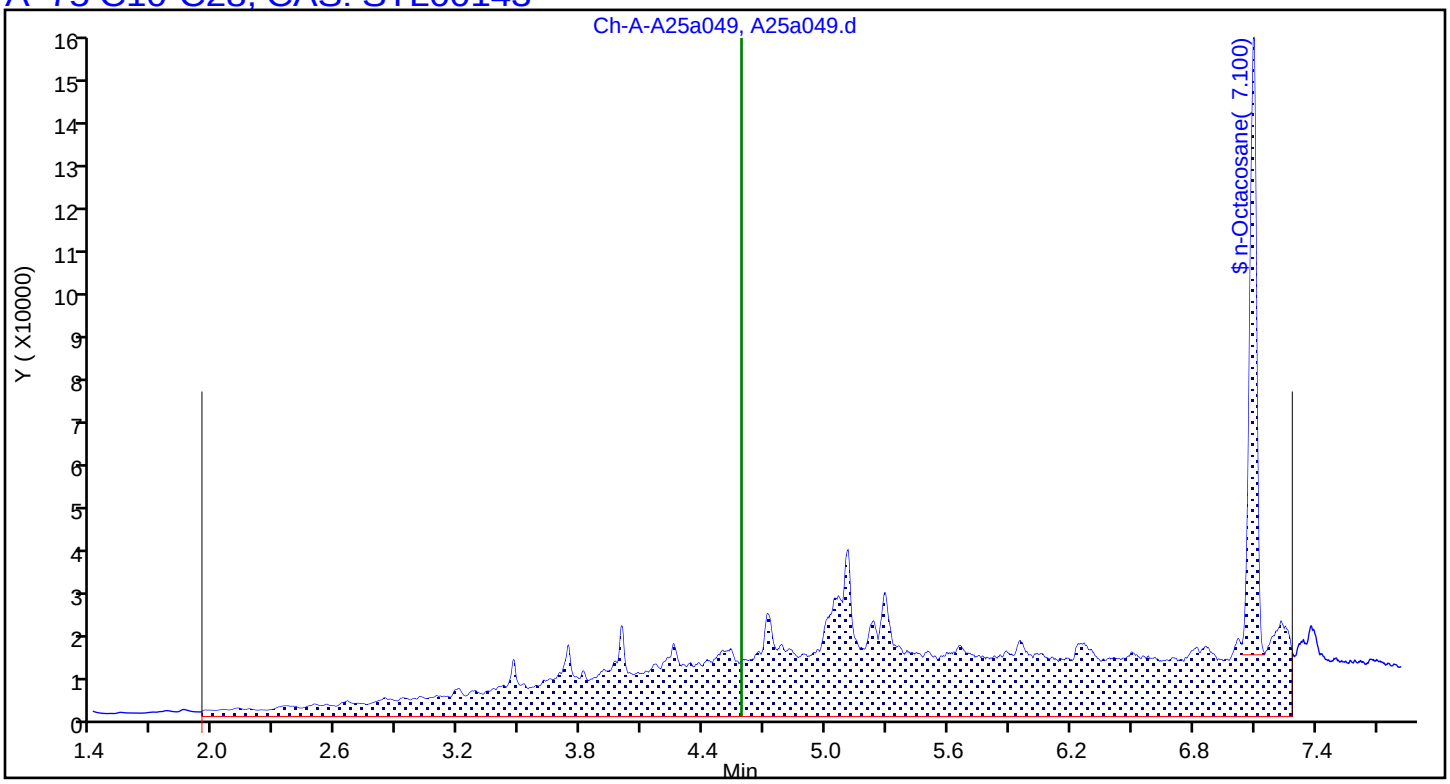
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	96.2	0.00

Report Date: 28-Jan-2019 09:54:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a049.d				
Injection Date:	26-Jan-2019 05:21:30	Instrument ID:	GC69A		
Lims ID:	720-90981-F-8-A	Lab Sample ID:	440-90981-8		
Client ID:	DG-AK15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

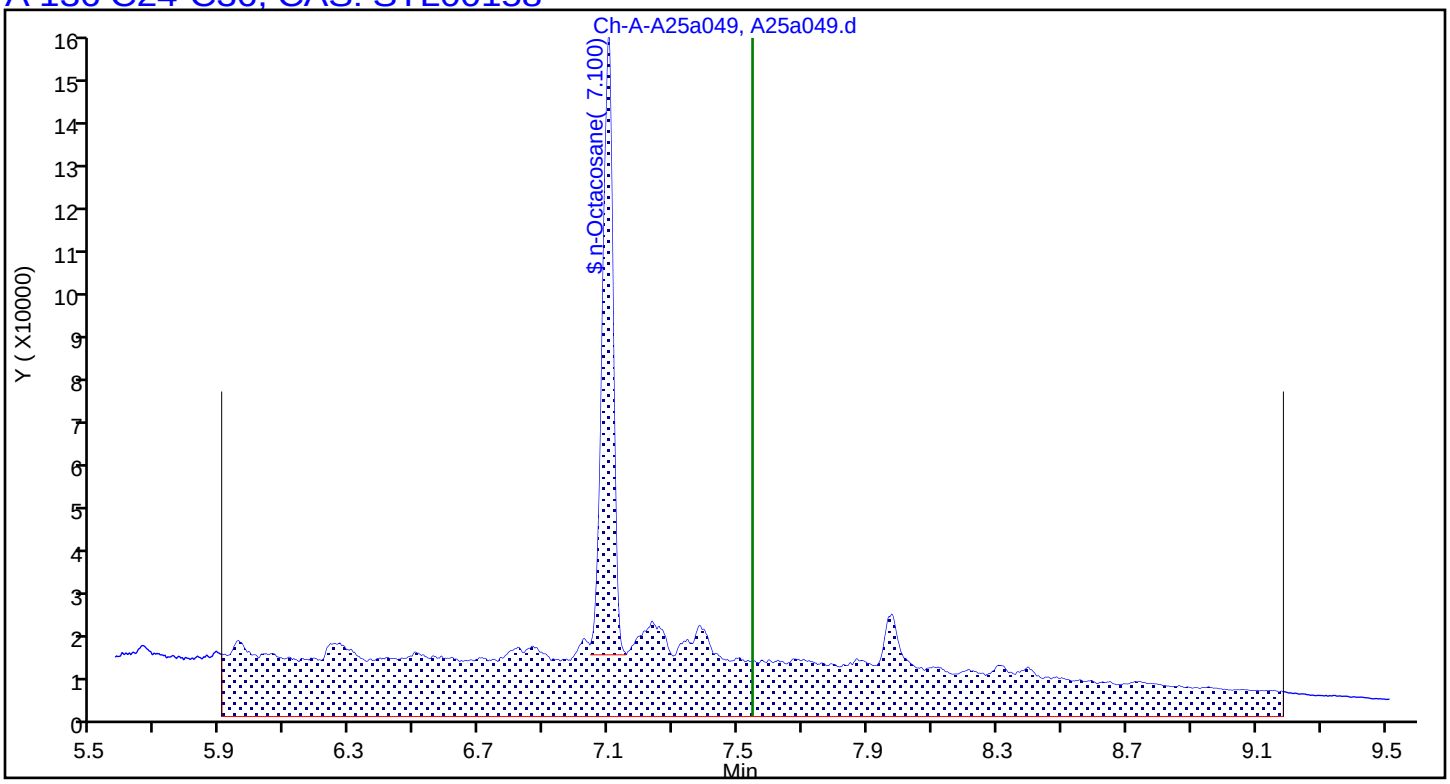


Report Date: 28-Jan-2019 09:54:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a049.d				
Injection Date:	26-Jan-2019 05:21:30	Instrument ID:	GC69A		
Lims ID:	720-90981-F-8-A	Lab Sample ID:	440-90981-8		
Client ID:	DG-AK15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a064.d				
Lims ID:	720-90981-F-9-A				
Client ID:	DG-AM15S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 10:26:31	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:58:17	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:58:17		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.592	(1.895-7.288)		420659	127.3	
$ 127 n-Octacosane	7.105	7.095	0.010	602454	184.9	
A 136 C24-C36	7.544	(5.902-9.187)		658358	199.3	

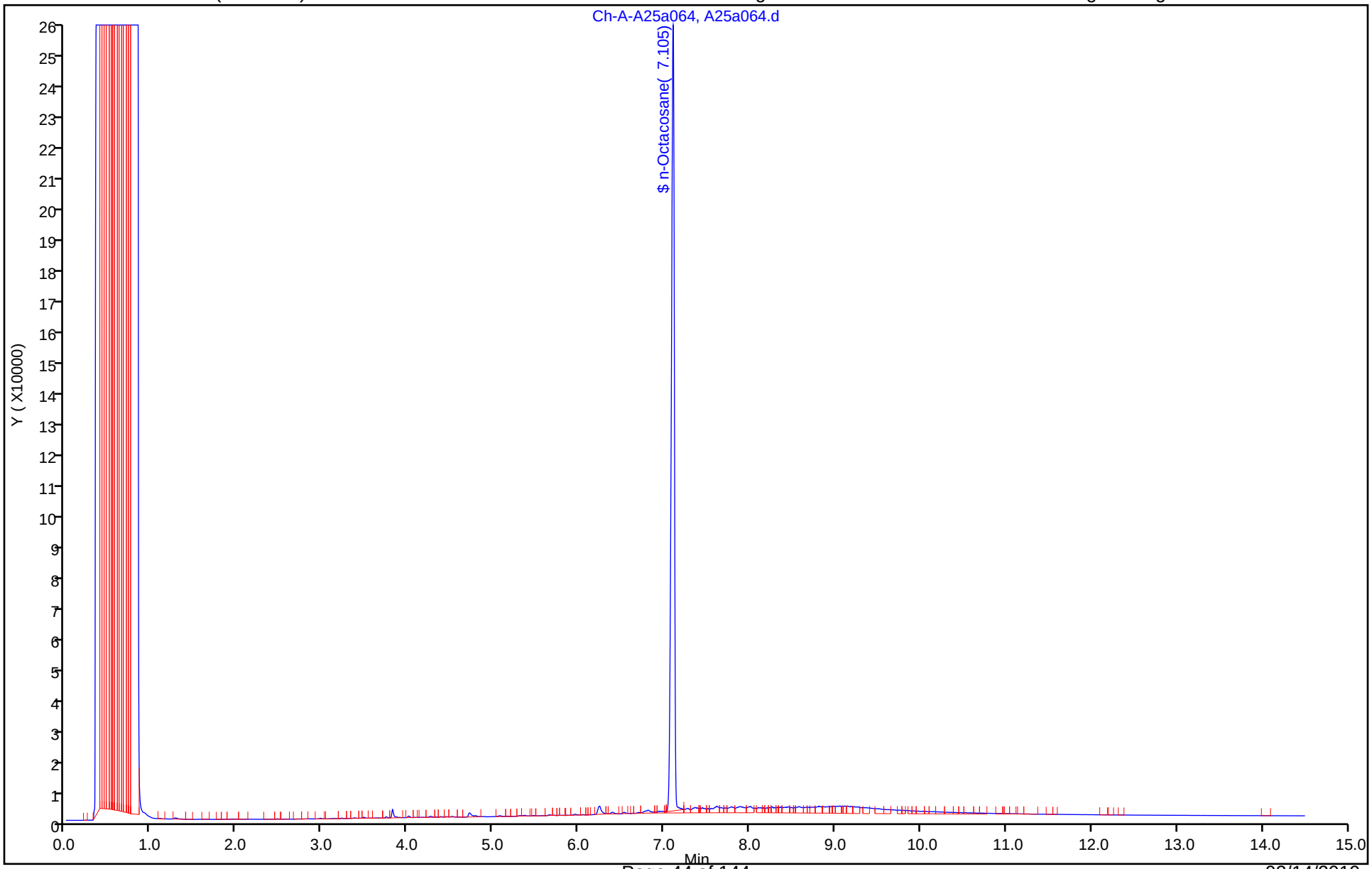
Report Date: 28-Jan-2019 09:58:17 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a064.d

Injection Date:	26-Jan-2019 10:26:31	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-9-A	Lab Sample ID:	440-90981-9	Worklist Smp#:	64
Client ID:	DG-AM15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a064.d				
Lims ID:	720-90981-F-9-A				
Client ID:	DG-AM15S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 10:26:31	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:58:17	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:58:17		

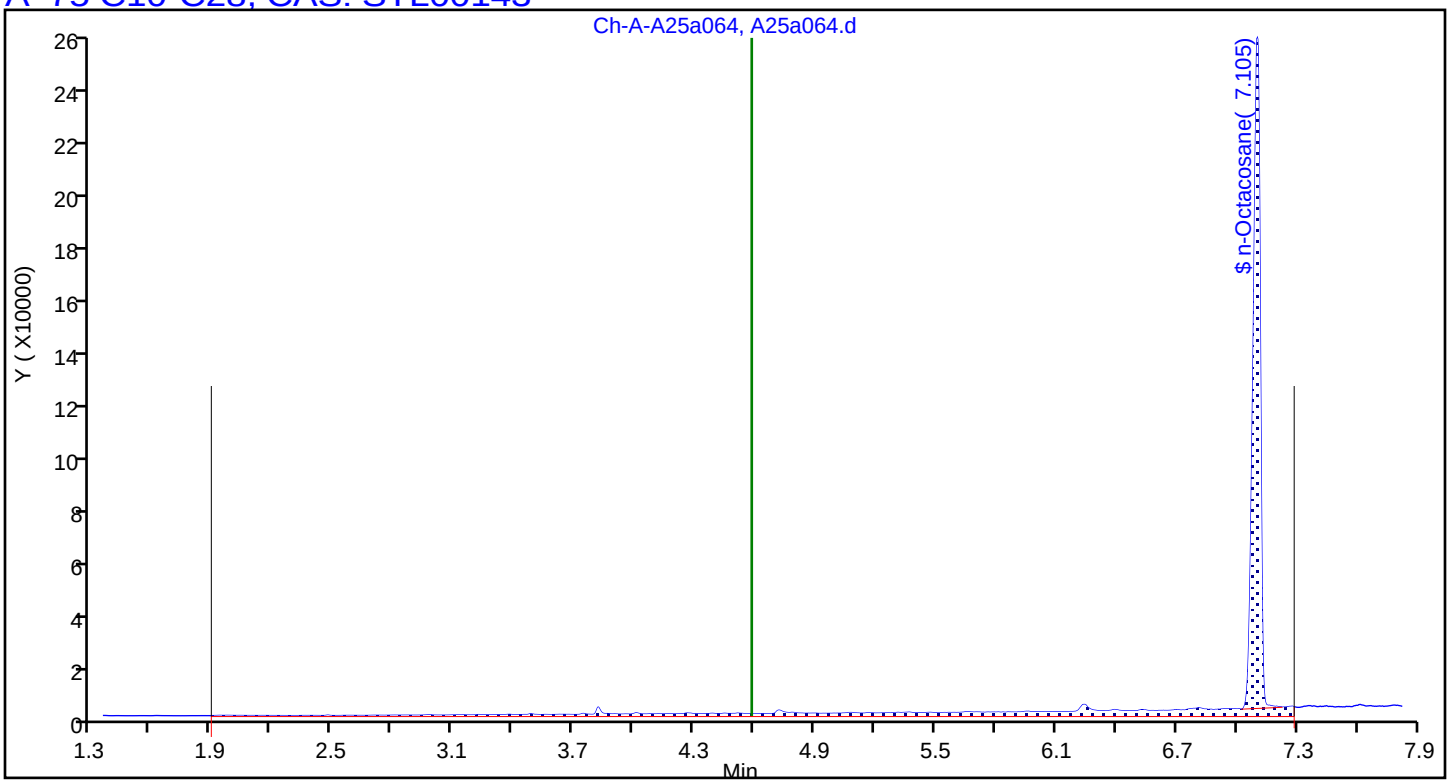
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	184.9	0.00

Report Date: 28-Jan-2019 09:58:17 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a064.d				
Injection Date:	26-Jan-2019 10:26:31	Instrument ID:	GC69A		
Lims ID:	720-90981-F-9-A	Lab Sample ID:	440-90981-9		
Client ID:	DG-AM15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

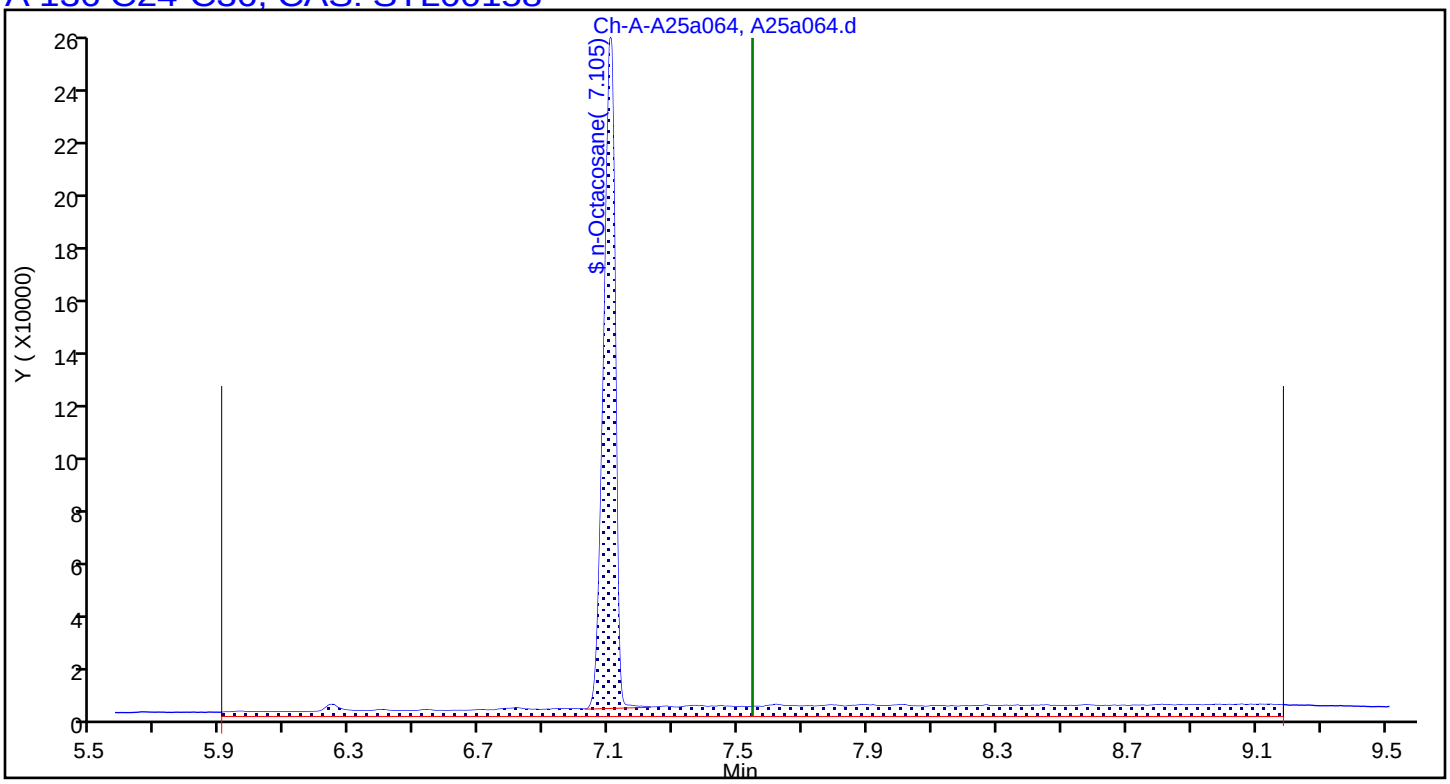


Report Date: 28-Jan-2019 09:58:18 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a064.d				
Injection Date:	26-Jan-2019 10:26:31	Instrument ID:	GC69A		
Lims ID:	720-90981-F-9-A	Lab Sample ID:	440-90981-9		
Client ID:	DG-AM15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a068.d				
Lims ID:	720-90981-F-10-A				
Client ID:	DG-AM15S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 11:47:47	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:59:15	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:59:15		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		812653	246.0	
$ 127 n-Octacosane	7.105	7.095	0.010	579876	178.0	
A 136 C24-C36	7.544	(5.902-9.187)		888283	268.9	

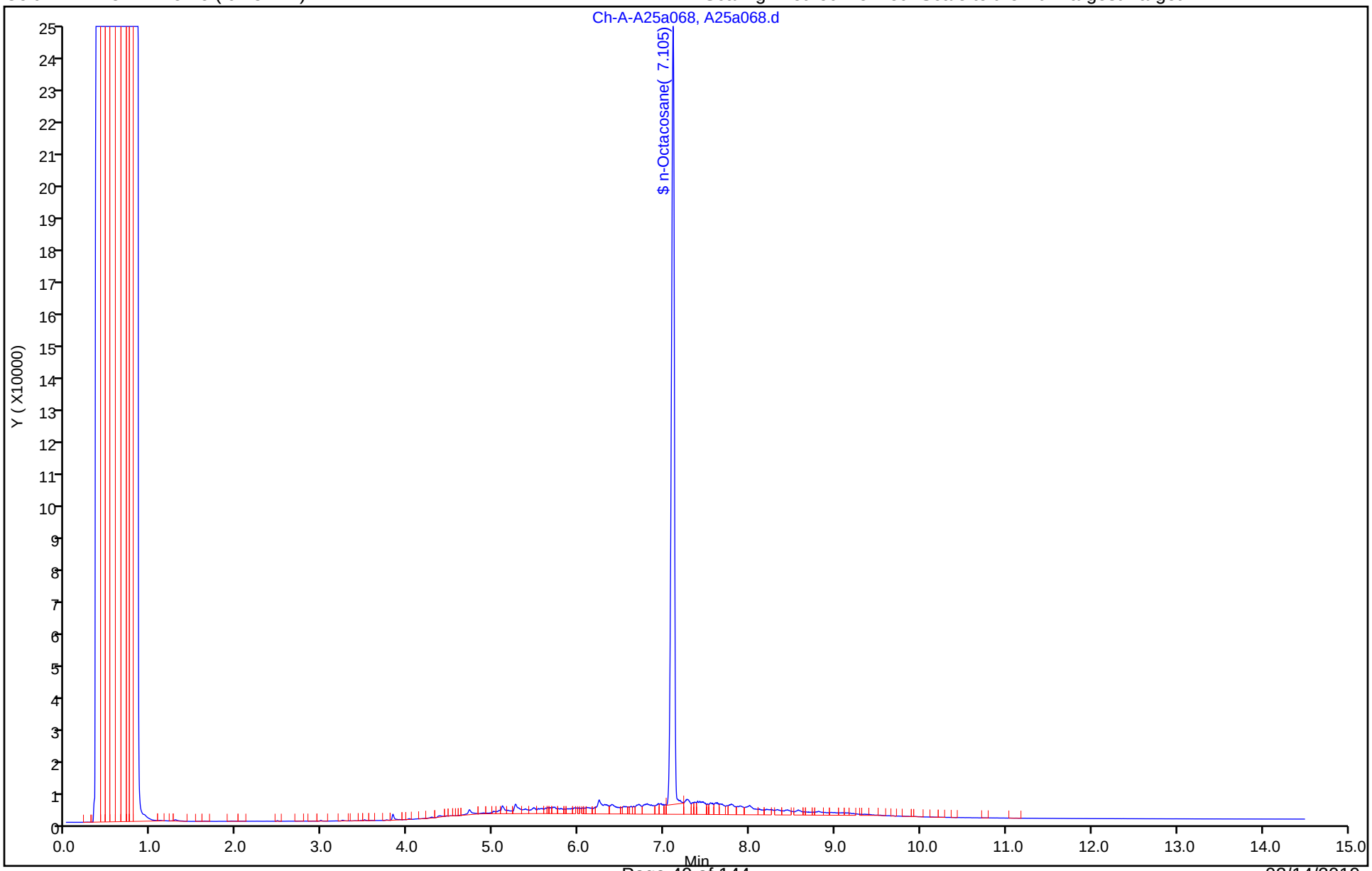
Report Date: 28-Jan-2019 09:59:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a068.d

Injection Date:	26-Jan-2019 11:47:47	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-10-A	Lab Sample ID:	440-90981-10	Worklist Smp#:	68
Client ID:	DG-AM15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a068.d				
Lims ID:	720-90981-F-10-A				
Client ID:	DG-AM15S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 11:47:47	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:59:15	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:59:15

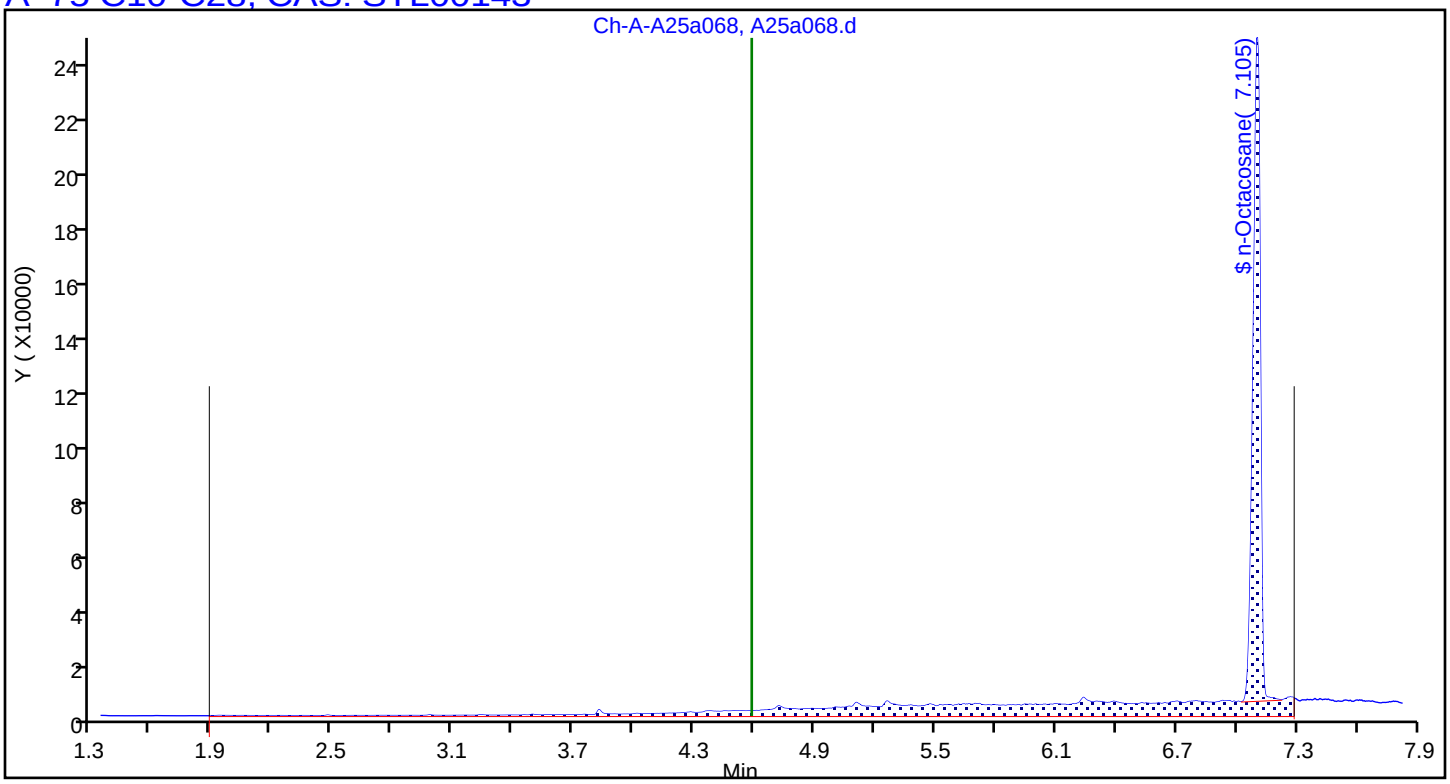
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	178.0	0.00

Report Date: 28-Jan-2019 09:59:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a068.d				
Injection Date:	26-Jan-2019 11:47:47	Instrument ID:	GC69A		
Lims ID:	720-90981-F-10-A	Lab Sample ID:	440-90981-10		
Client ID:	DG-AM15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143



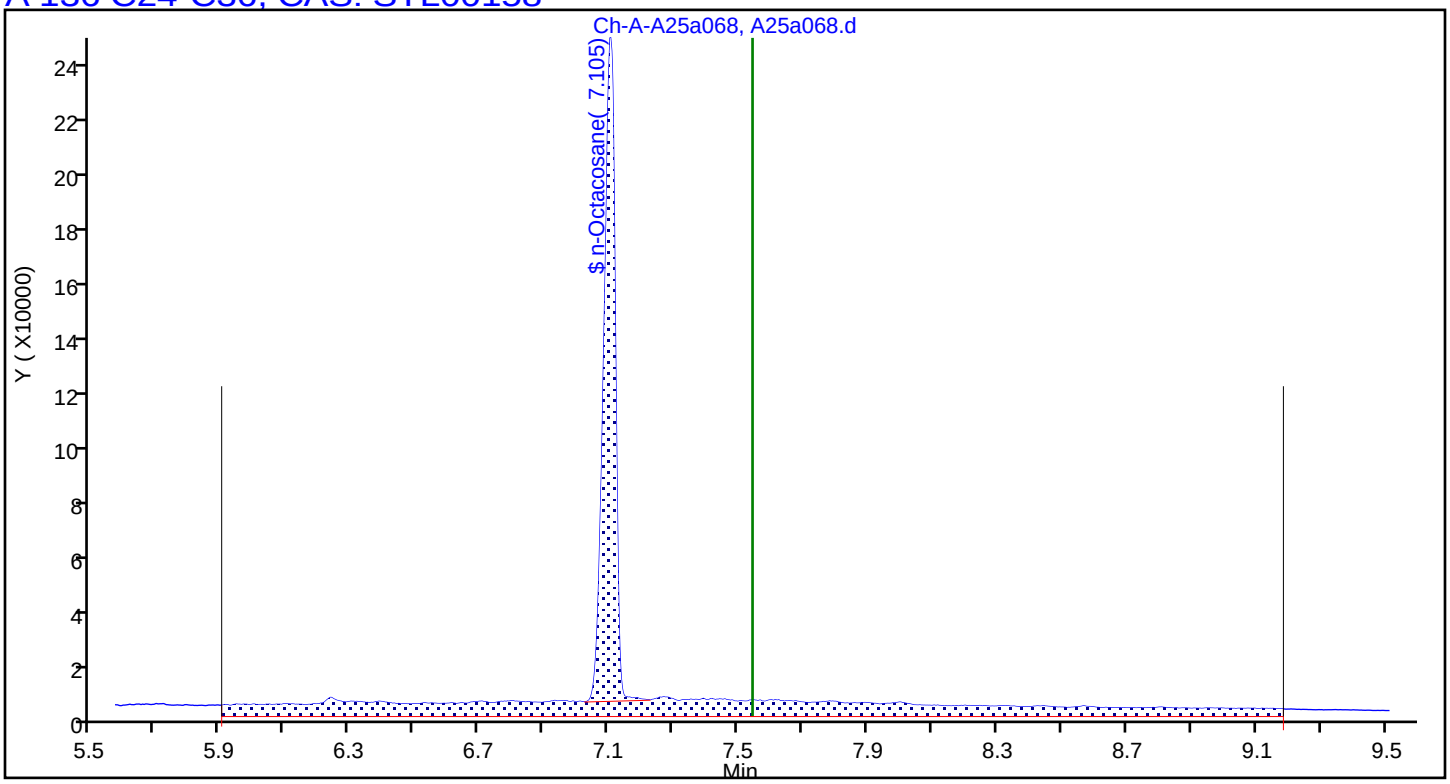
Report Date: 28-Jan-2019 09:59:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a068.d

Injection Date:	26-Jan-2019 11:47:47	Instrument ID:	GC69A		
Lims ID:	720-90981-F-10-A	Lab Sample ID:	440-90981-10		
Client ID:	DG-AM15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a072.d				
Lims ID:	720-90981-F-11-A				
Client ID:	DUP-113				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 13:08:53	ALS Bottle#:	0	Worklist Smp#:	72
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 10:00:14	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 10:00:14		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		252827	76.5	
$ 127 n-Octacosane	7.103	7.095	0.008	599216	183.9	
A 136 C24-C36	7.544	(5.902-9.187)		203234	61.5	

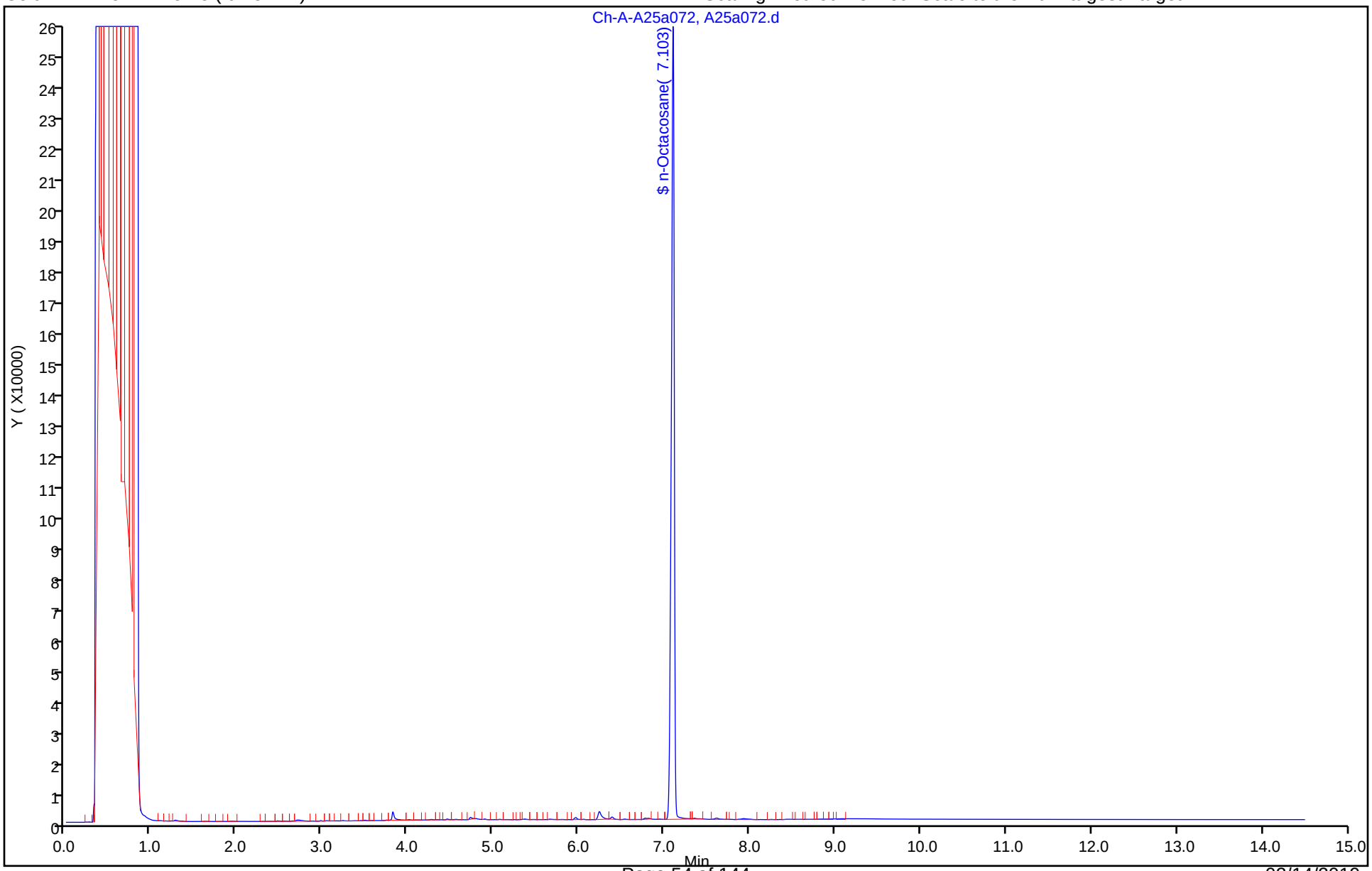
Report Date: 28-Jan-2019 10:00:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a072.d

Injection Date:	26-Jan-2019 13:08:53	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-11-A	Lab Sample ID:	440-90981-11	Worklist Smp#:	72
Client ID:	DUP-113				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a072.d				
Lims ID:	720-90981-F-11-A				
Client ID:	DUP-113				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 13:08:53	ALS Bottle#:	0	Worklist Smp#:	72
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 10:00:14	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 10:00:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	183.9	0.00

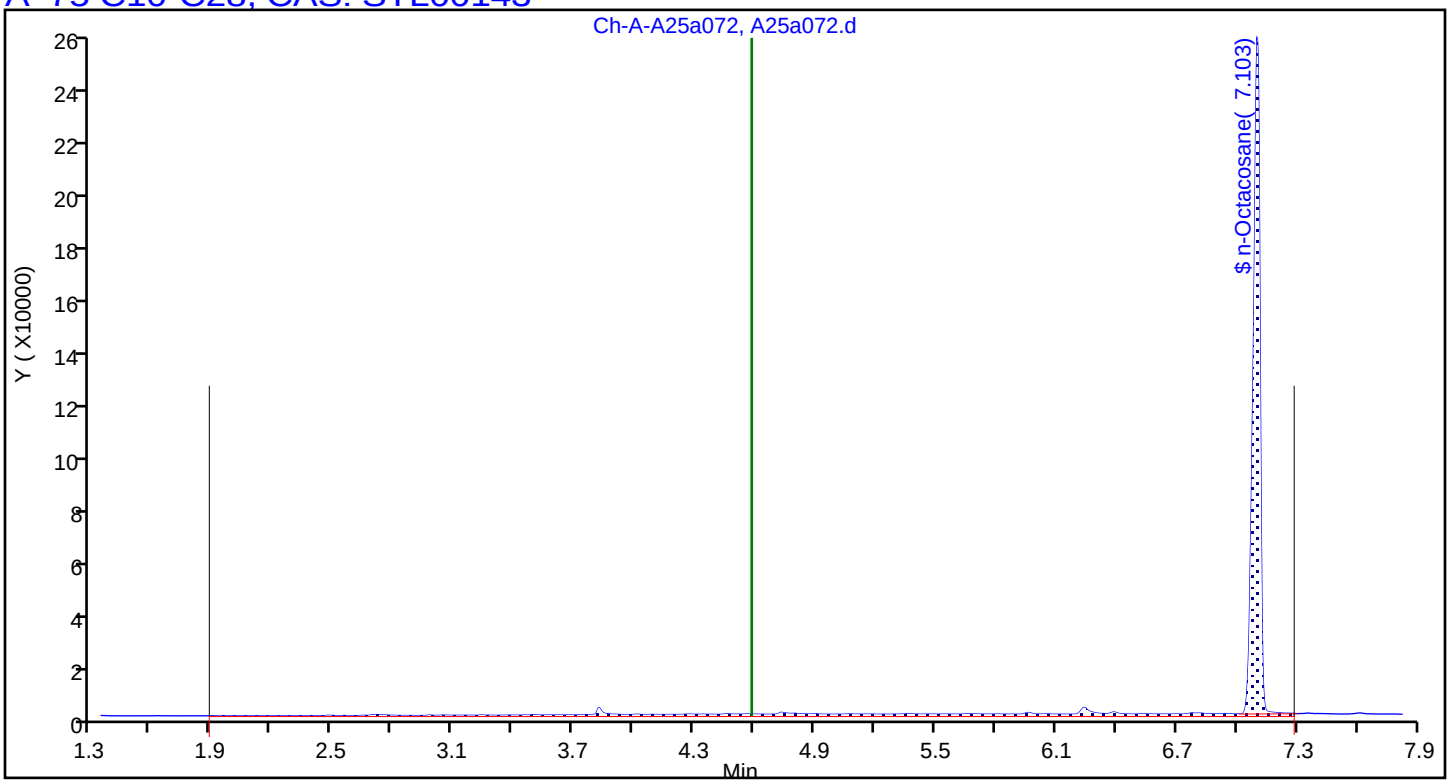
Report Date: 28-Jan-2019 10:00:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a072.d

Injection Date:	26-Jan-2019 13:08:53	Instrument ID:	GC69A		
Lims ID:	720-90981-F-11-A	Lab Sample ID:	440-90981-11		
Client ID:	DUP-113				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	72
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

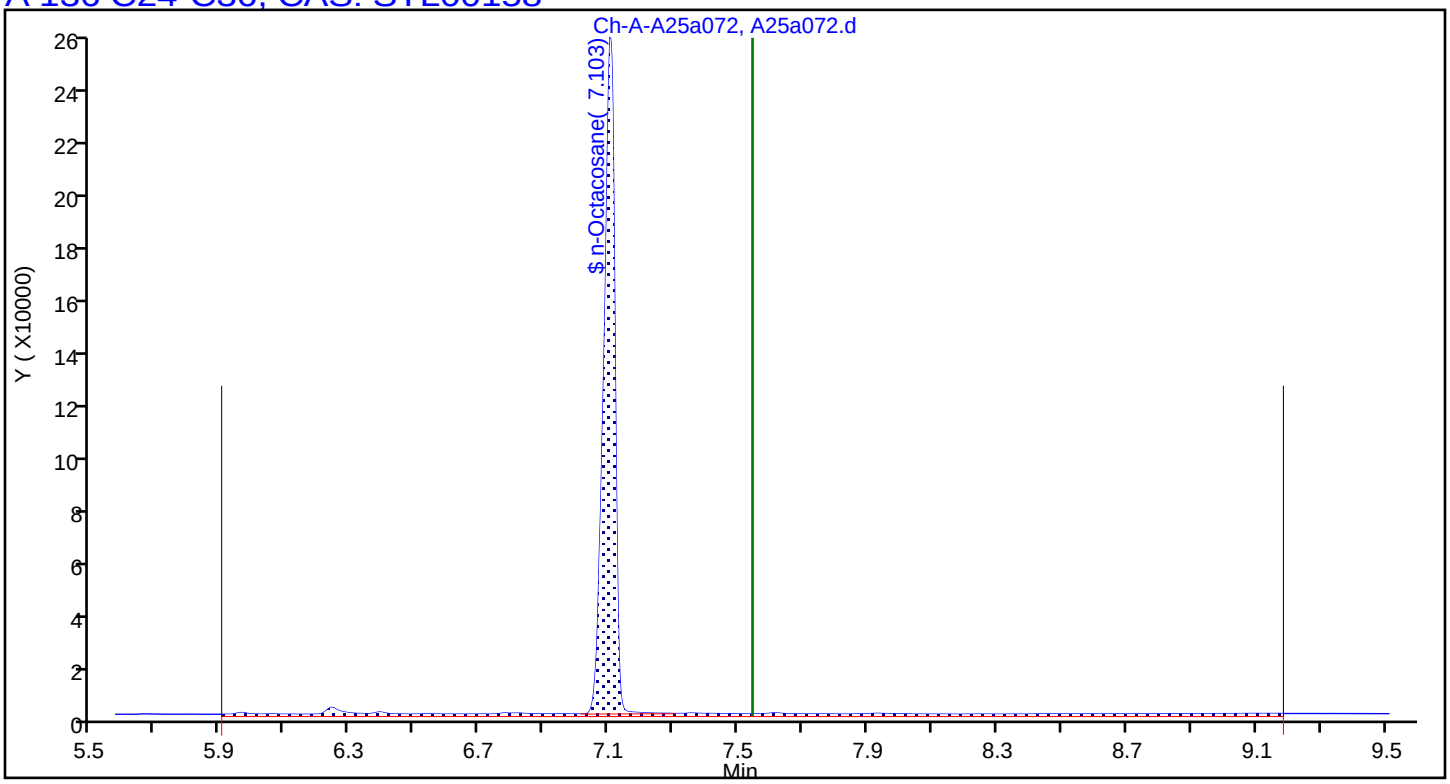


Report Date: 28-Jan-2019 10:00:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a072.d				
Injection Date:	26-Jan-2019 13:08:53	Instrument ID:	GC69A		
Lims ID:	720-90981-F-11-A	Lab Sample ID:	440-90981-11		
Client ID:	DUP-113				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	72
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a058.d				
Lims ID:	720-90981-F-12-A				
Client ID:	DUP-96				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 08:24:39	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:56:48	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:56:48		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		2007267	607.6	
$ 127 n-Octacosane	7.112	7.095	0.017	595037	182.6	
A 136 C24-C36	7.544	(5.902-9.187)		3426228	1037.1	

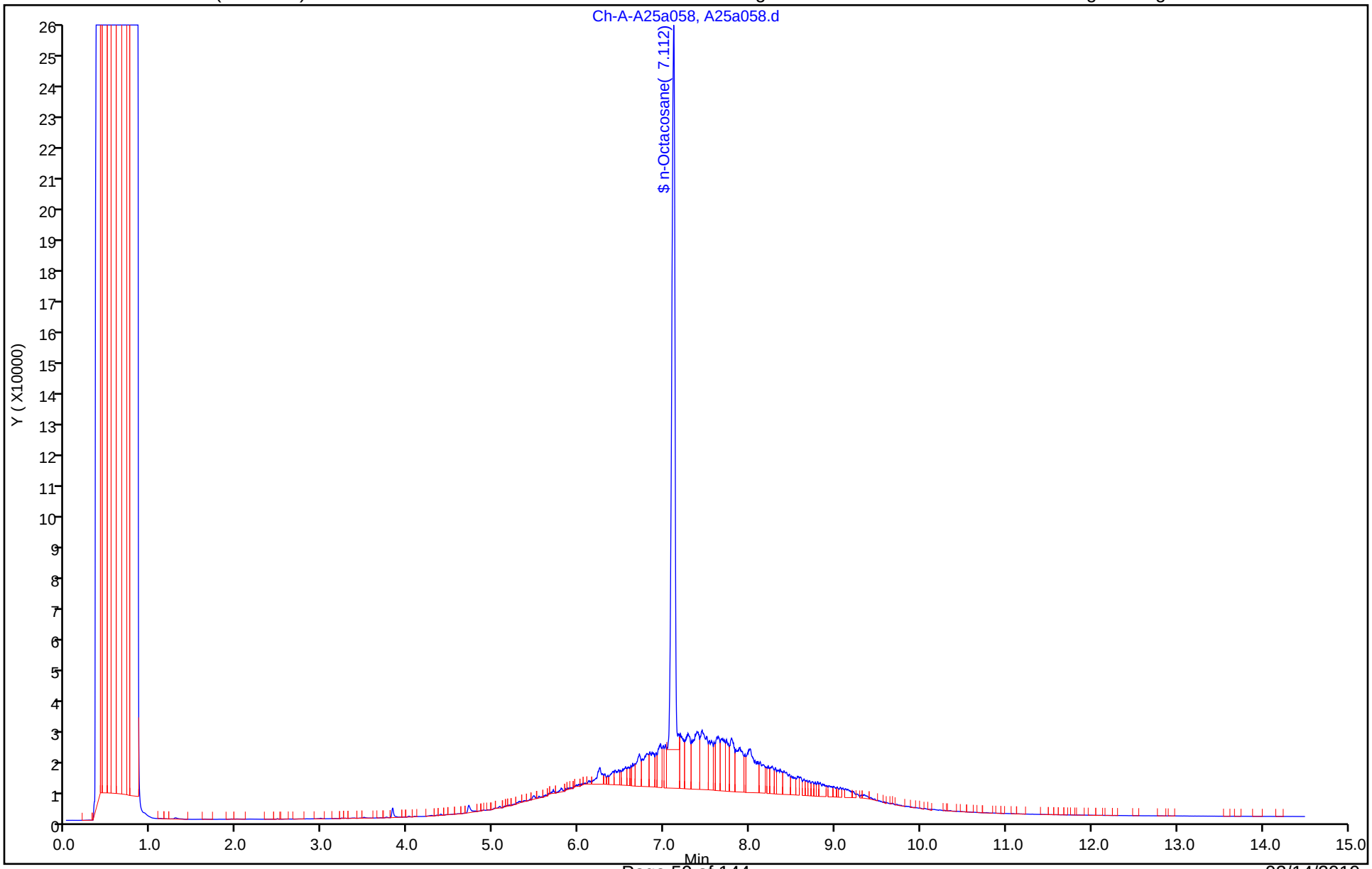
Report Date: 28-Jan-2019 09:56:49 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a058.d

Injection Date:	26-Jan-2019 08:24:39	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-12-A	Lab Sample ID:	440-90981-12	Worklist Smp#:	58
Client ID:	DUP-96				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a058.d				
Lims ID:	720-90981-F-12-A				
Client ID:	DUP-96				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 08:24:39	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:56:48	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:56:48

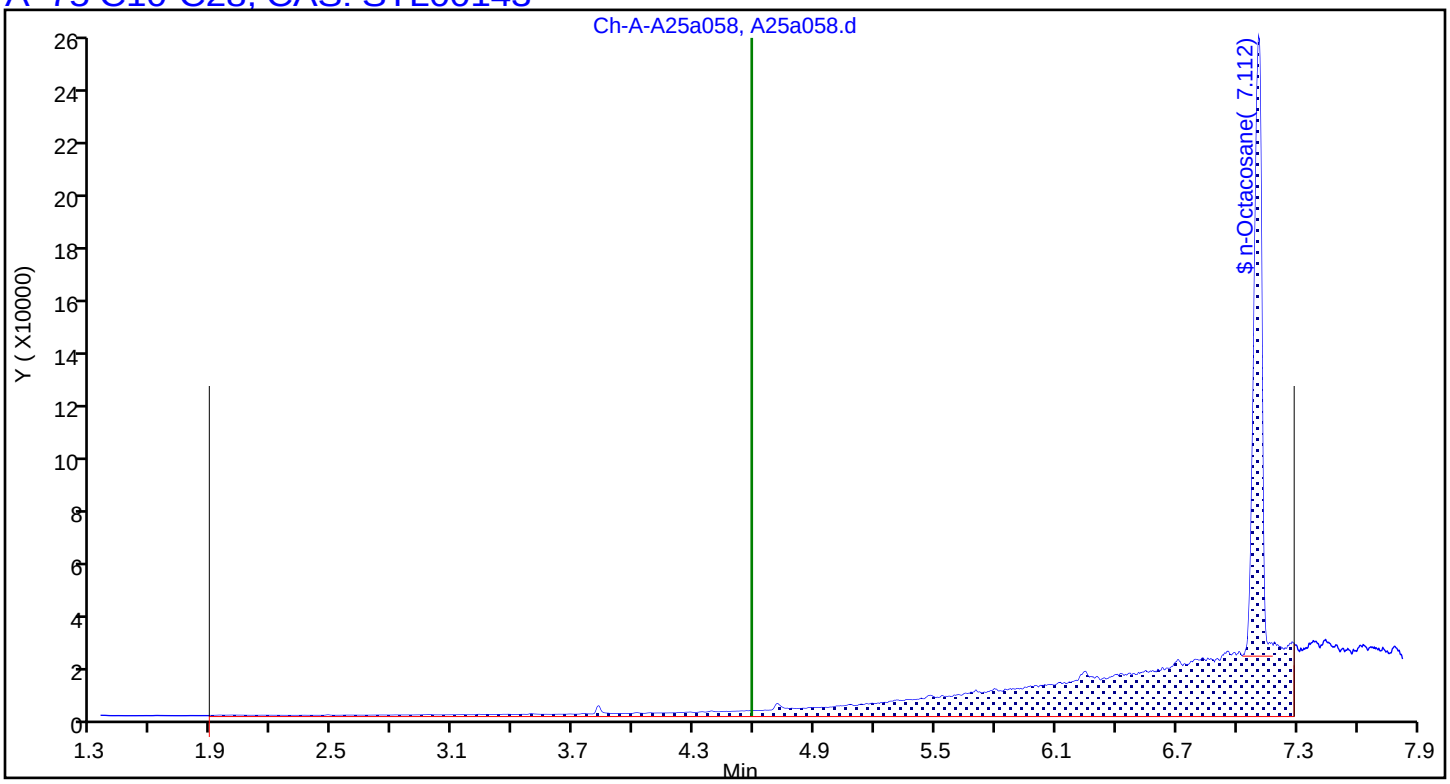
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	182.6	0.00

Report Date: 28-Jan-2019 09:56:49 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a058.d				
Injection Date:	26-Jan-2019 08:24:39	Instrument ID:	GC69A		
Lims ID:	720-90981-F-12-A	Lab Sample ID:	440-90981-12		
Client ID:	DUP-96				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

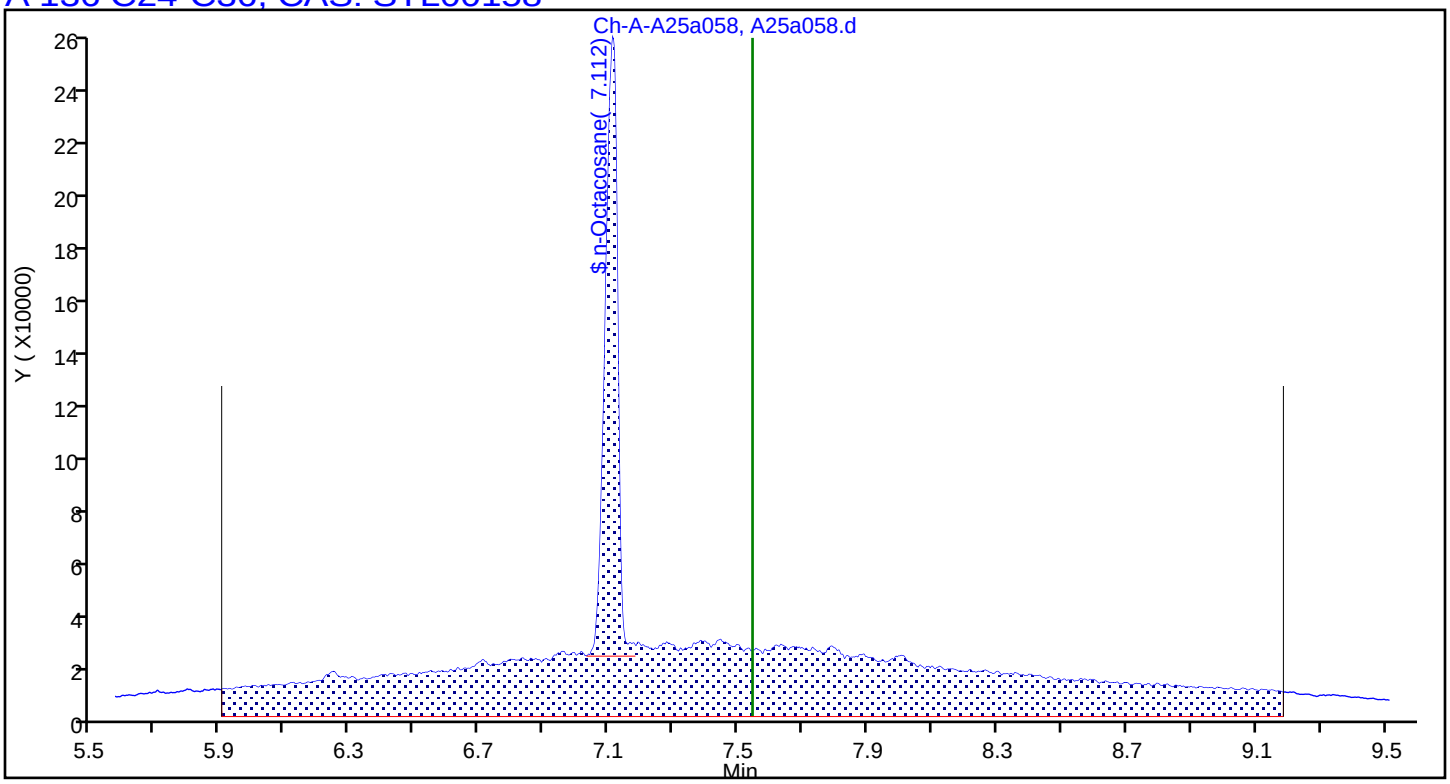


Report Date: 28-Jan-2019 09:56:49 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a058.d				
Injection Date:	26-Jan-2019 08:24:39	Instrument ID:	GC69A		
Lims ID:	720-90981-F-12-A	Lab Sample ID:	440-90981-12		
Client ID:	DUP-96				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a050.d				
Lims ID:	720-90981-F-13-A				
Client ID:	DG-AX9S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 05:41:49	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:54:21	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:54:21		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		864095	261.5	
$ 127 n-Octacosane	7.095	7.095	0.000	310188	95.2	
A 136 C24-C36	7.544	(5.902-9.187)		1651786	500.0	

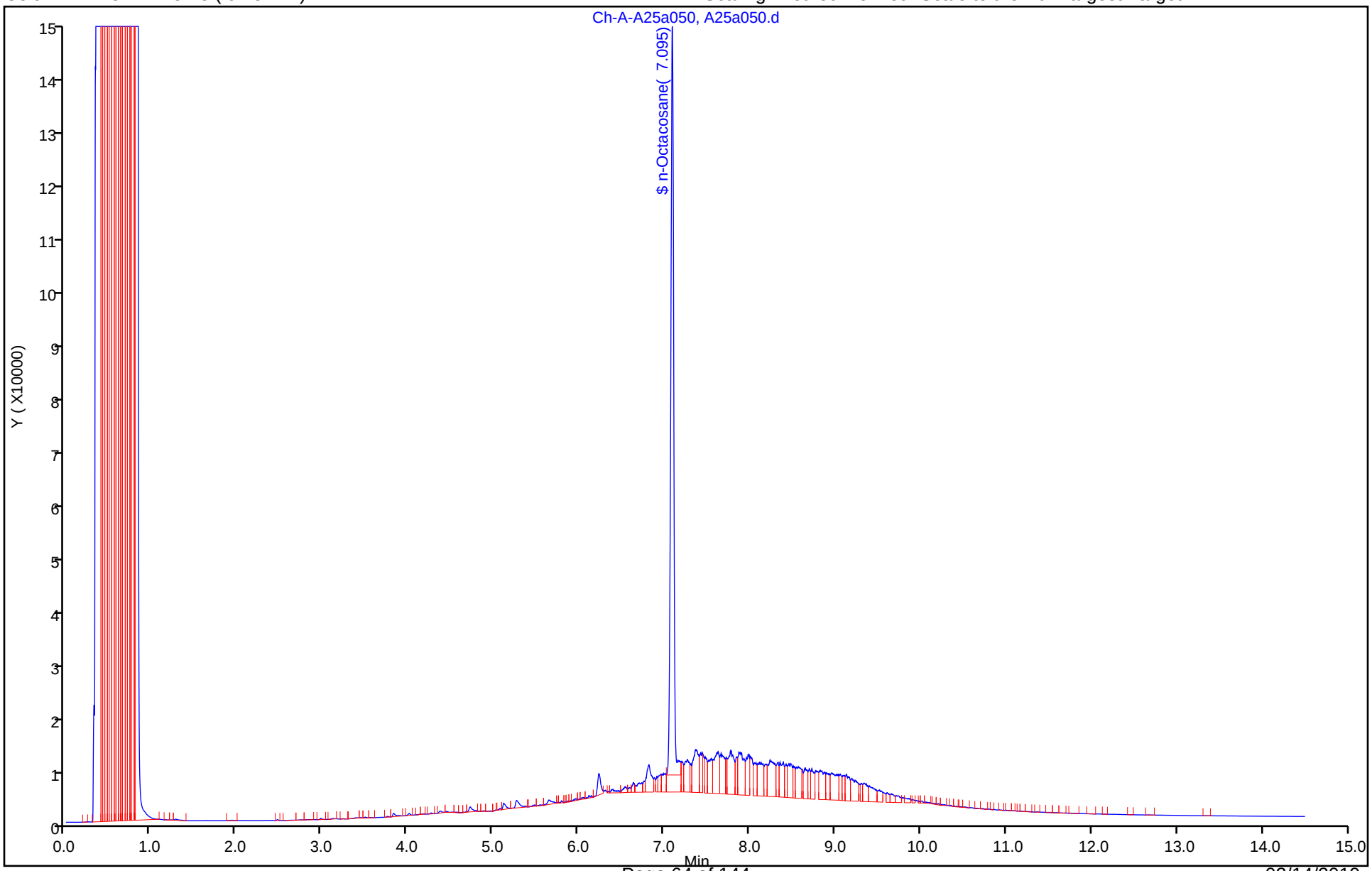
Report Date: 28-Jan-2019 09:54:22 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a050.d

Injection Date:	26-Jan-2019 05:41:49	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-13-A	Lab Sample ID:	440-90981-13	Worklist Smp#:	50
Client ID:	DG-AX9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a050.d				
Lims ID:	720-90981-F-13-A				
Client ID:	DG-AX9S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 05:41:49	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:54:21	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:54:21

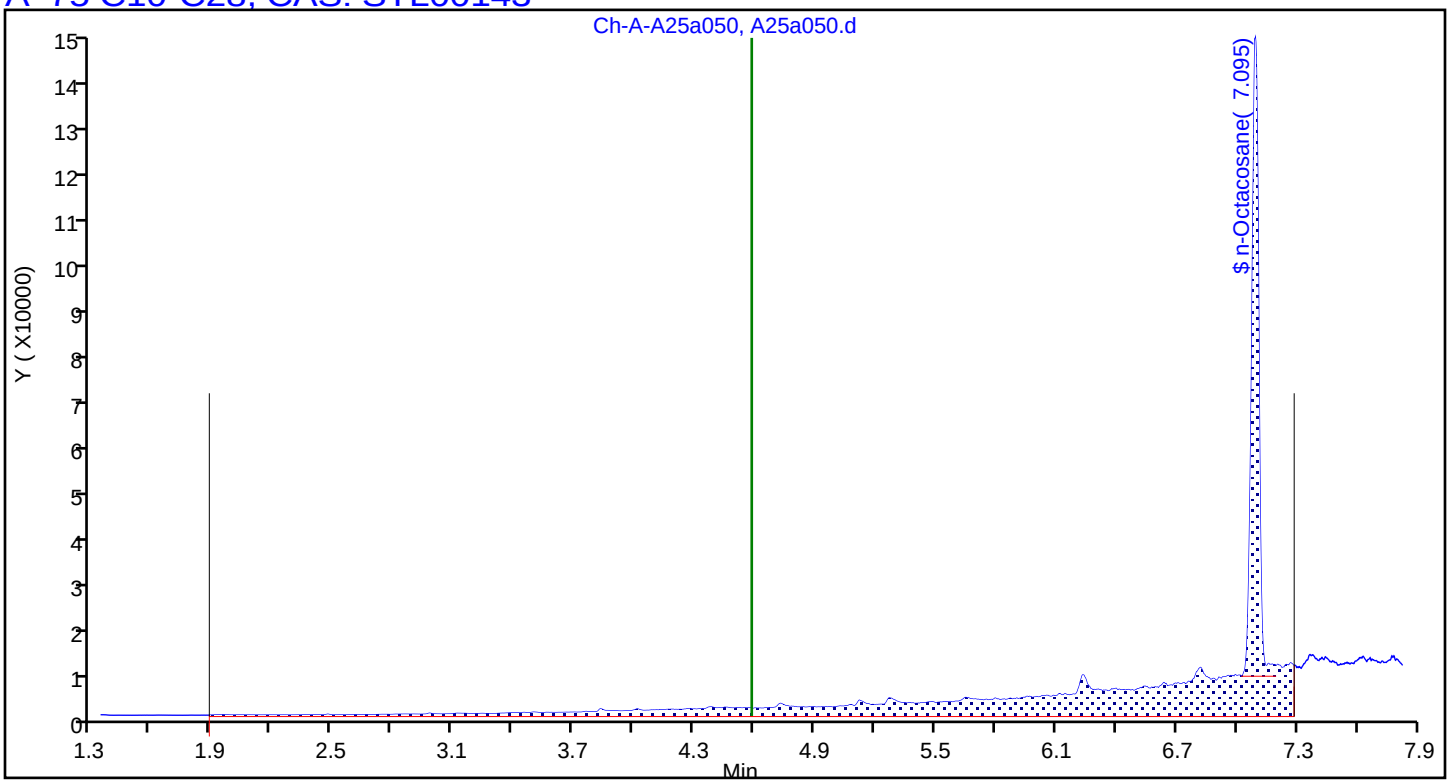
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	95.2	0.00

Report Date: 28-Jan-2019 09:54:22 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a050.d				
Injection Date:	26-Jan-2019 05:41:49	Instrument ID:	GC69A		
Lims ID:	720-90981-F-13-A	Lab Sample ID:	440-90981-13		
Client ID:	DG-AX9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

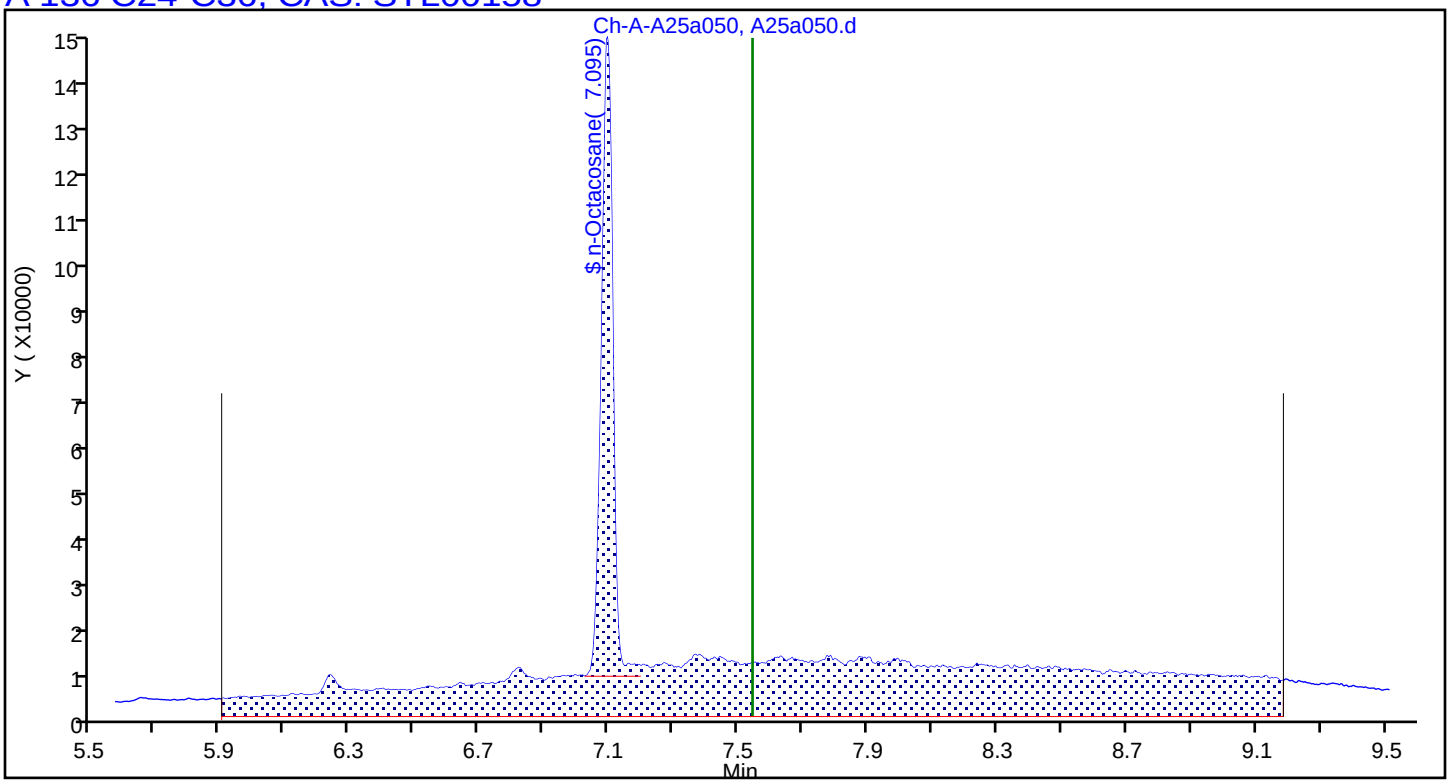


Report Date: 28-Jan-2019 09:54:22 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a050.d				
Injection Date:	26-Jan-2019 05:41:49	Instrument ID:	GC69A		
Lims ID:	720-90981-F-13-A	Lab Sample ID:	440-90981-13		
Client ID:	DG-AX9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a052.d				
Lims ID:	720-90981-F-14-A				
Client ID:	DG-AX9S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 06:22:24	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:55:25	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:55:25		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.905-7.268)		14878585	4503.5	
$ 127 n-Octacosane	7.143	7.095	0.048	282609	86.7	a
A 136 C24-C36	7.544	(5.902-9.187)		23216289	7027.2	

QC Flag Legend

Review Flags
a - User Assigned ID

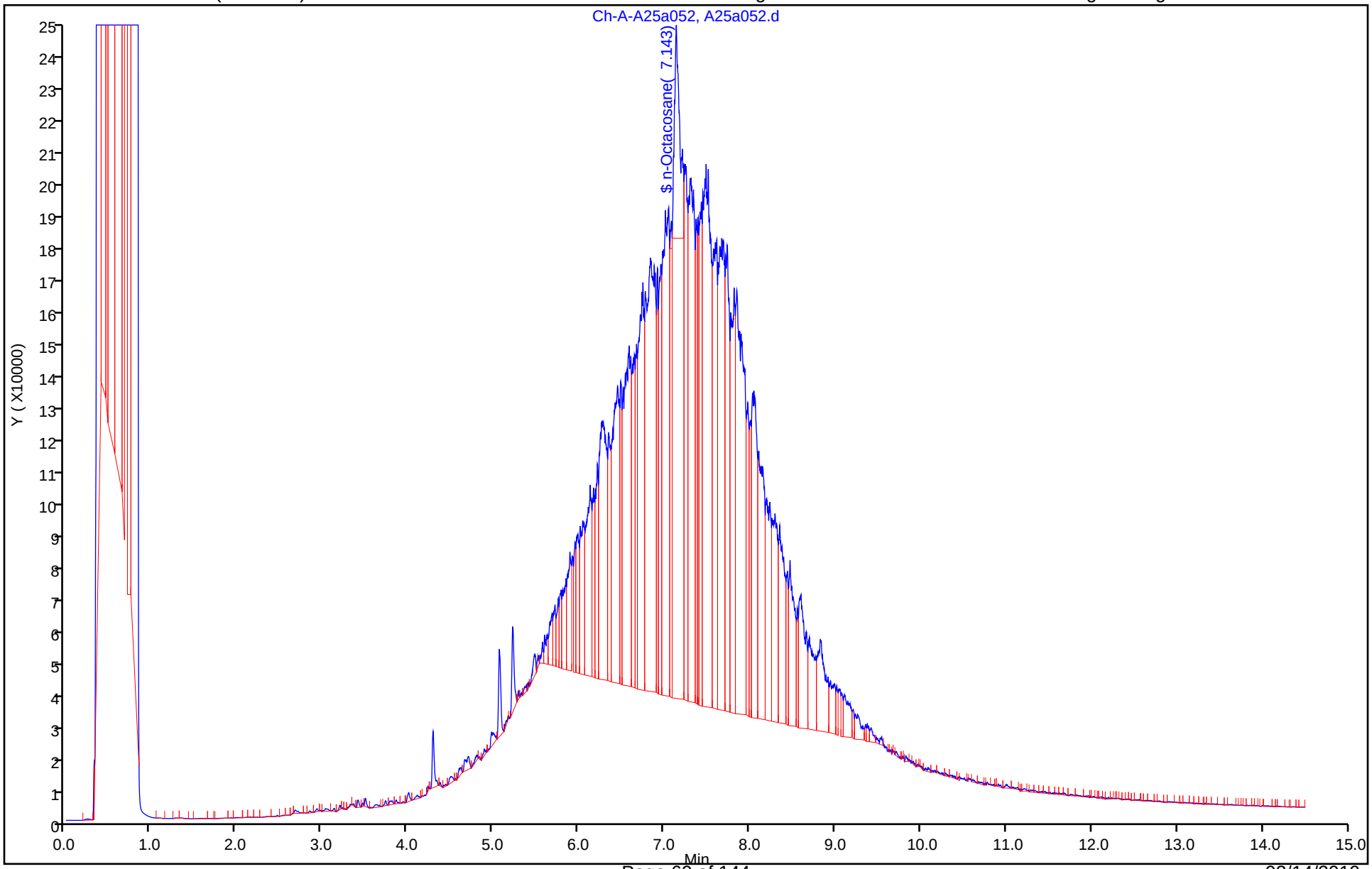
Report Date: 28-Jan-2019 09:55:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a052.d

Injection Date:	26-Jan-2019 06:22:24	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-14-A	Lab Sample ID:	440-90981-14	Worklist Smp#:	52
Client ID:	DG-AX9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a052.d				
Lims ID:	720-90981-F-14-A				
Client ID:	DG-AX9S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 06:22:24	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:55:25	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:55:25		

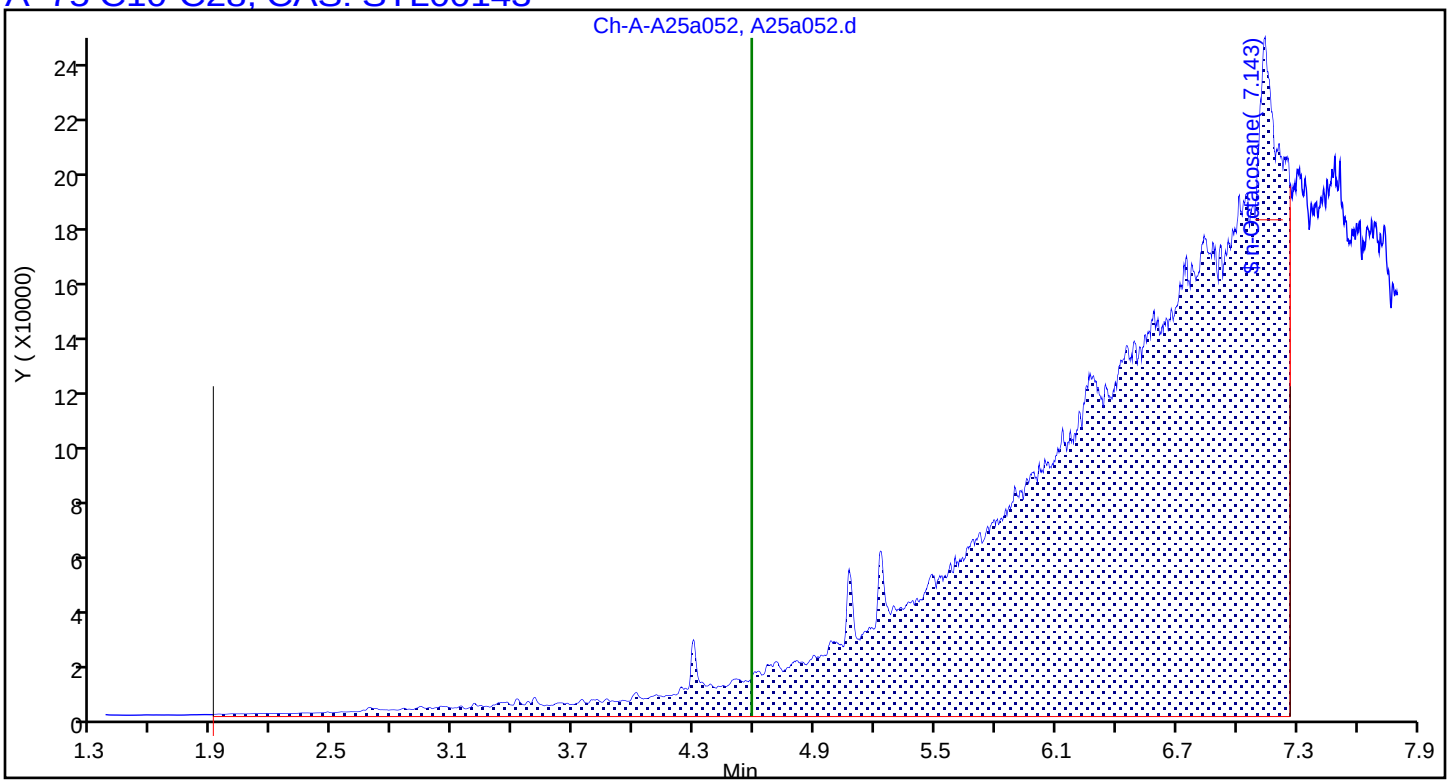
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	86.7	0.00

Report Date: 28-Jan-2019 09:55:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a052.d				
Injection Date:	26-Jan-2019 06:22:24	Instrument ID:	GC69A		
Lims ID:	720-90981-F-14-A	Lab Sample ID:	440-90981-14		
Client ID:	DG-AX9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

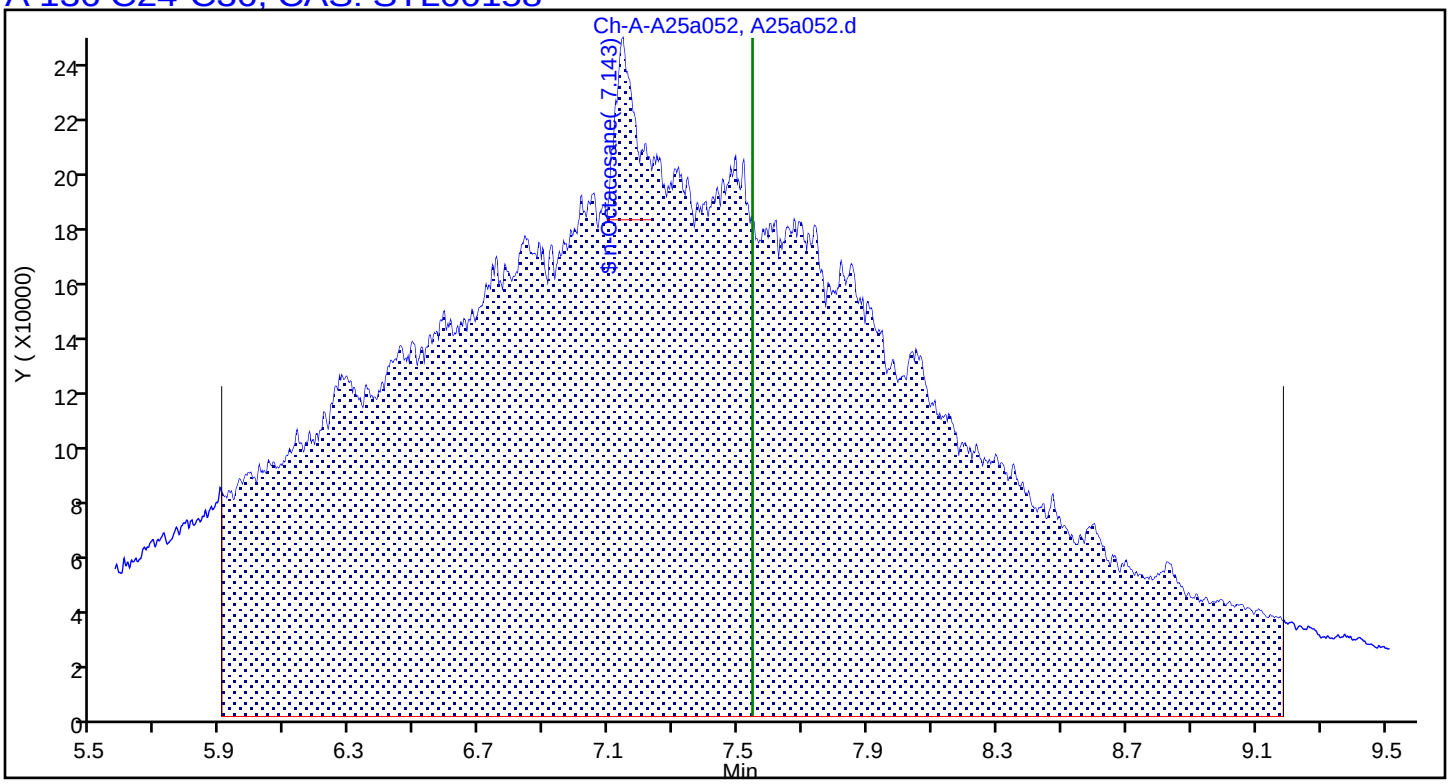


Report Date: 28-Jan-2019 09:55:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a052.d				
Injection Date:	26-Jan-2019 06:22:24	Instrument ID:	GC69A		
Lims ID:	720-90981-F-14-A	Lab Sample ID:	440-90981-14		
Client ID:	DG-AX9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Irvine

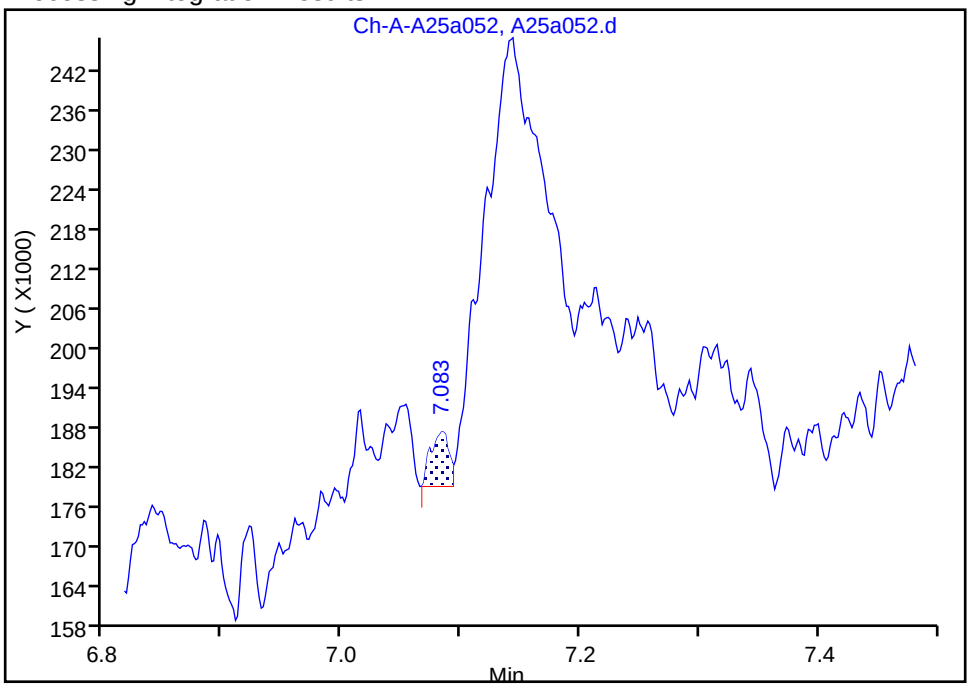
Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a052.d				
Injection Date:	26-Jan-2019 06:22:24	Instrument ID:	GC69A		
Lims ID:	720-90981-F-14-A	Lab Sample ID:	440-90981-14		
Client ID:	DG-AX9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

$ 127 n-Octacosane, CAS: 630-02-4

Signal: 1

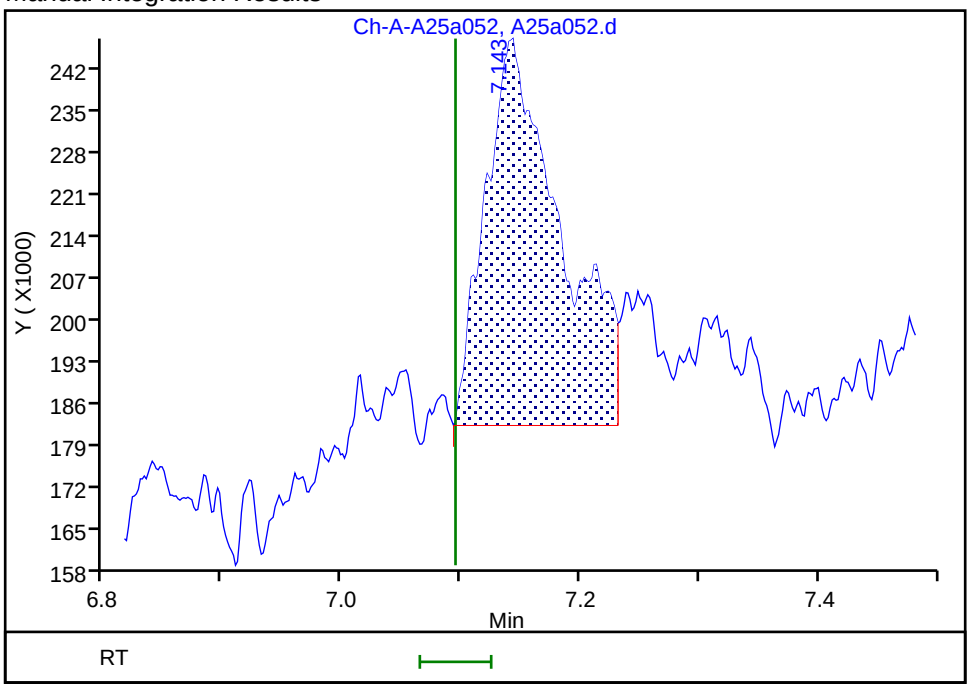
Processing Integration Results

RT: 7.08
Area: 8657
Amount: 2.657122
Amount Units: ug/ml



Manual Integration Results

RT: 7.14
Area: 282609
Amount: 86.742125
Amount Units: ug/ml



Reviewer: doanm, 28-Jan-2019 09:55:04
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a062.d				
Lims ID:	720-90981-F-15-A				
Client ID:	DG-AX9S-9.5-10				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 09:46:01	ALS Bottle#:	0	Worklist Smp#:	62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:57:51	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:57:51		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		285178	86.3	
$ 127 n-Octacosane	7.105	7.095	0.010	580669	178.2	
A 136 C24-C36	7.544	(5.902-9.187)		339985	102.9	

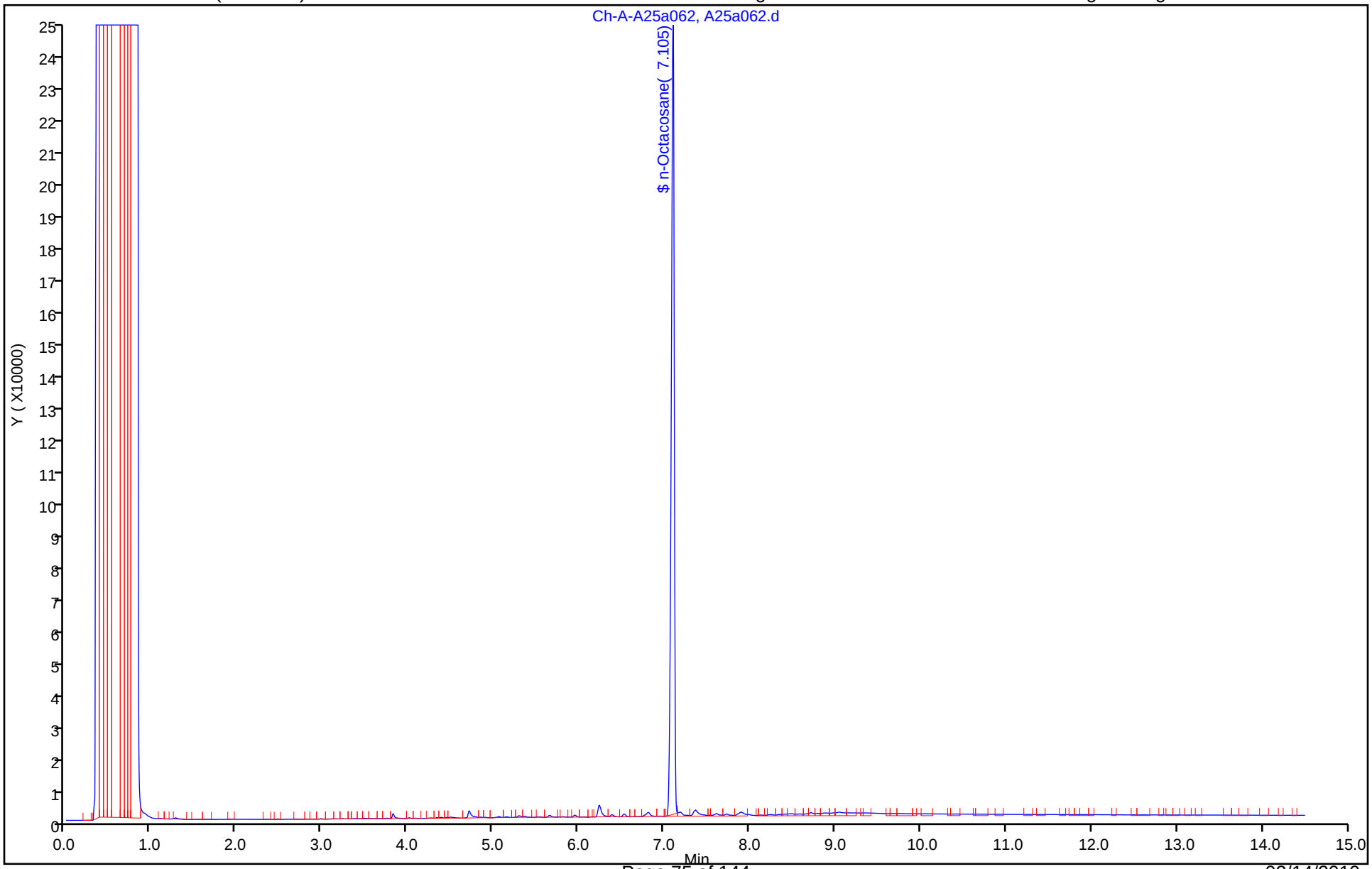
Report Date: 28-Jan-2019 09:57:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a062.d

Injection Date:	26-Jan-2019 09:46:01	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-15-A	Lab Sample ID:	440-90981-15	Worklist Smp#:	62
Client ID:	DG-AX9S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a062.d				
Lims ID:	720-90981-F-15-A				
Client ID:	DG-AX9S-9.5-10				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 09:46:01	ALS Bottle#:	0	Worklist Smp#:	62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:57:51	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:57:51		

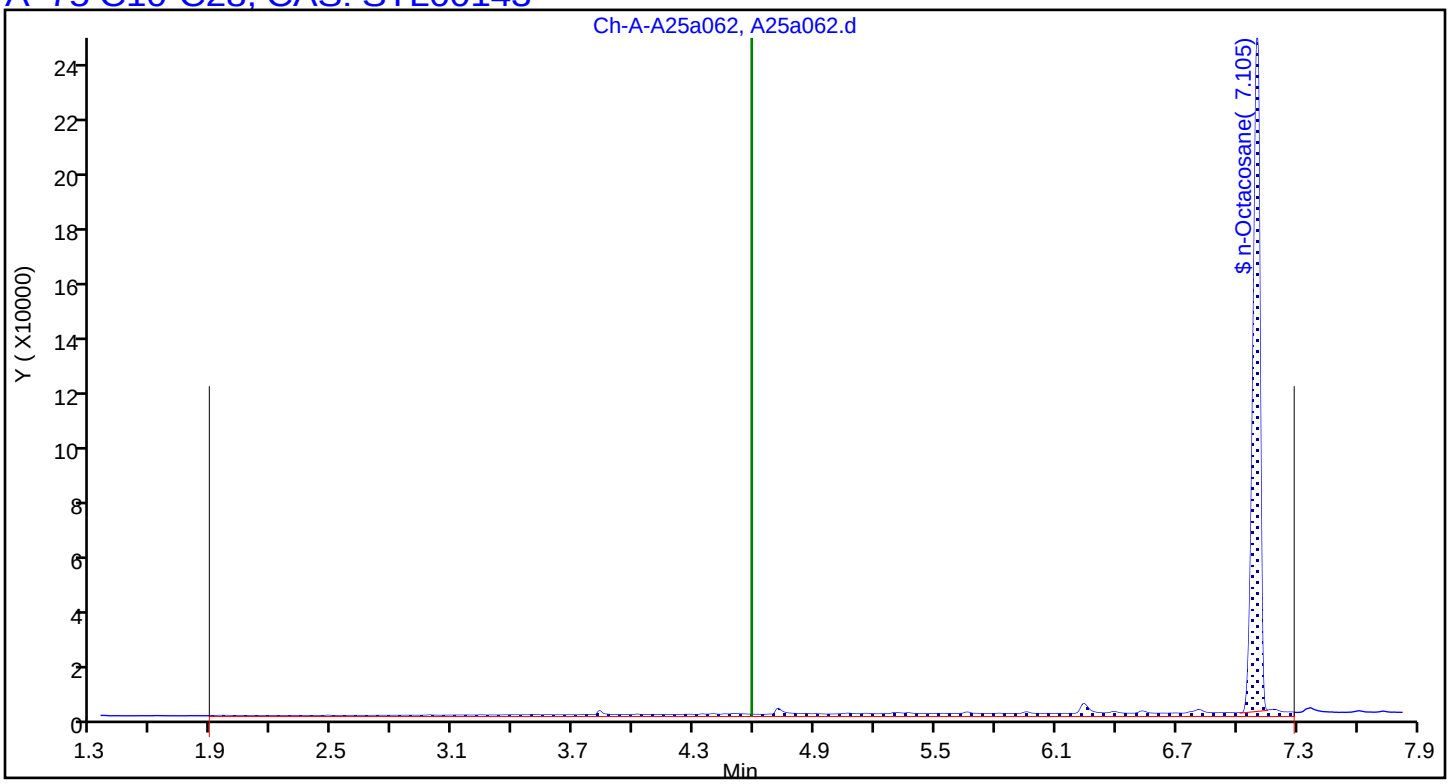
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	178.2	0.00

Report Date: 28-Jan-2019 09:57:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a062.d				
Injection Date:	26-Jan-2019 09:46:01	Instrument ID:	GC69A		
Lims ID:	720-90981-F-15-A	Lab Sample ID:	440-90981-15		
Client ID:	DG-AX9S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143



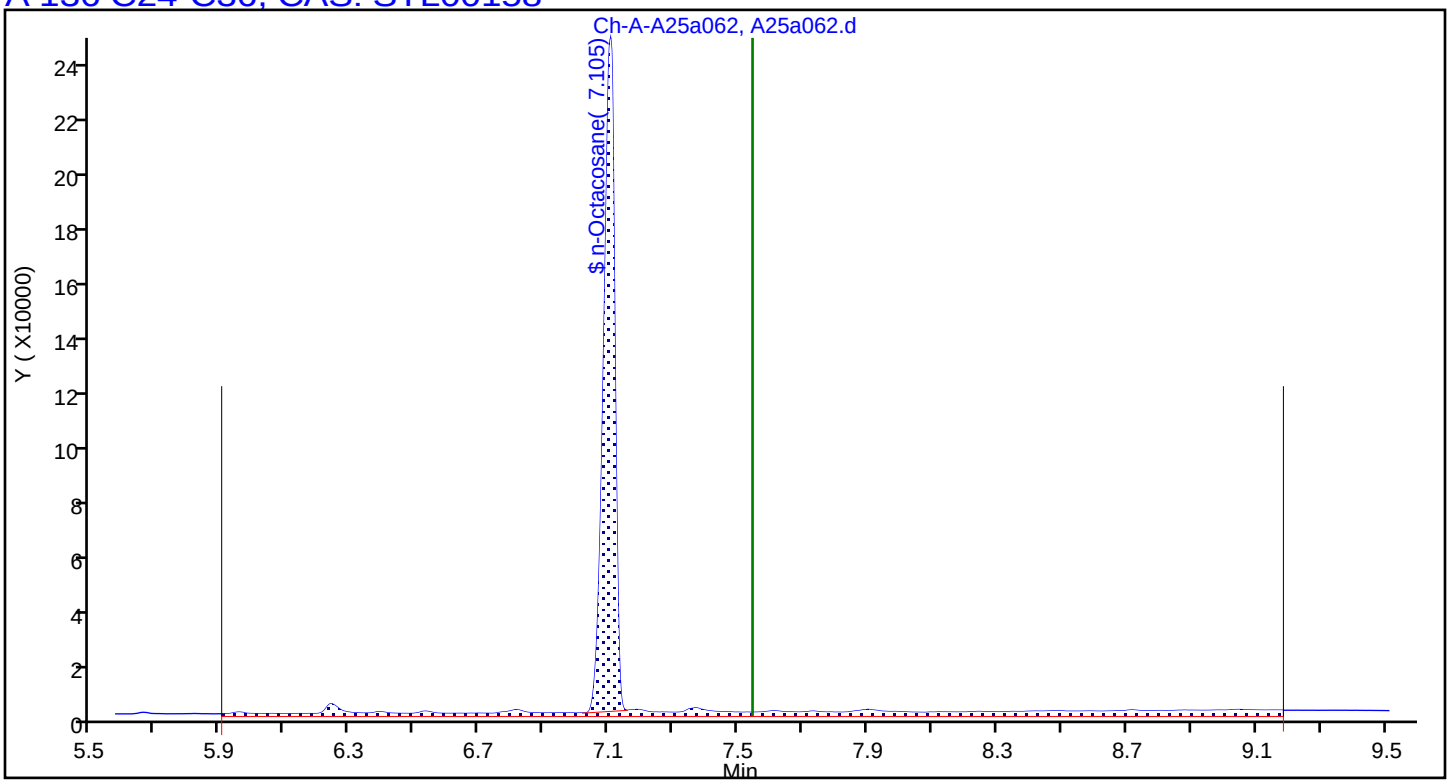
Report Date: 28-Jan-2019 09:57:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a062.d

Injection Date:	26-Jan-2019 09:46:01	Instrument ID:	GC69A		
Lims ID:	720-90981-F-15-A	Lab Sample ID:	440-90981-15		
Client ID:	DG-AX9S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a053.d				
Lims ID:	720-90981-F-16-A				
Client ID:	DG-AU11S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 06:42:45	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:55:39	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:55:39		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		816553	247.2	
$ 127 n-Octacosane	7.097	7.095	0.002	313969	96.4	
A 136 C24-C36	7.544	(5.902-9.187)		2070950	626.8	

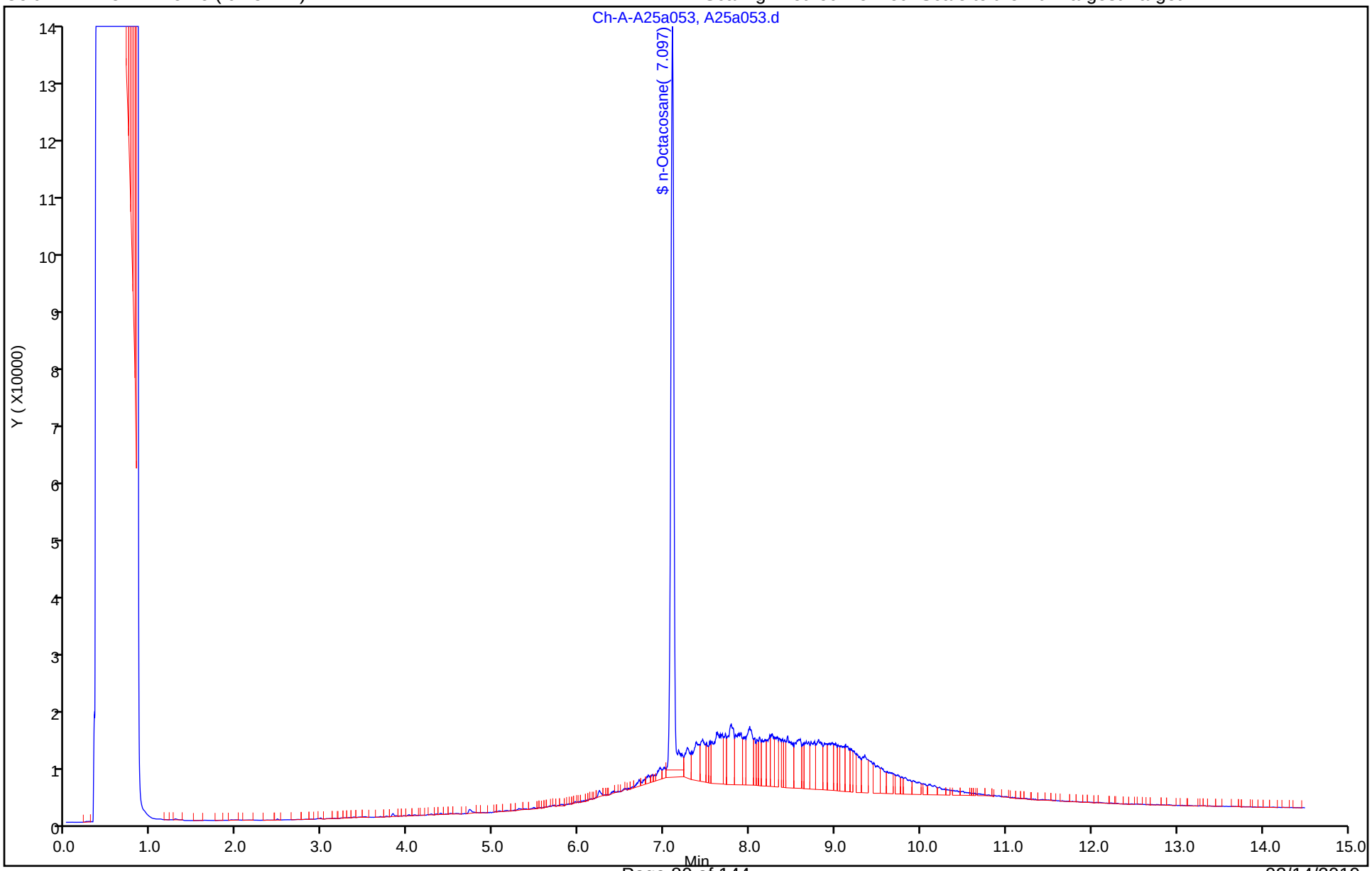
Report Date: 28-Jan-2019 09:55:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a053.d

Injection Date:	26-Jan-2019 06:42:45	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-16-A	Lab Sample ID:	440-90981-16	Worklist Smp#:	53
Client ID:	DG-AU11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a053.d				
Lims ID:	720-90981-F-16-A				
Client ID:	DG-AU11S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 06:42:45	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:55:39	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:55:39		

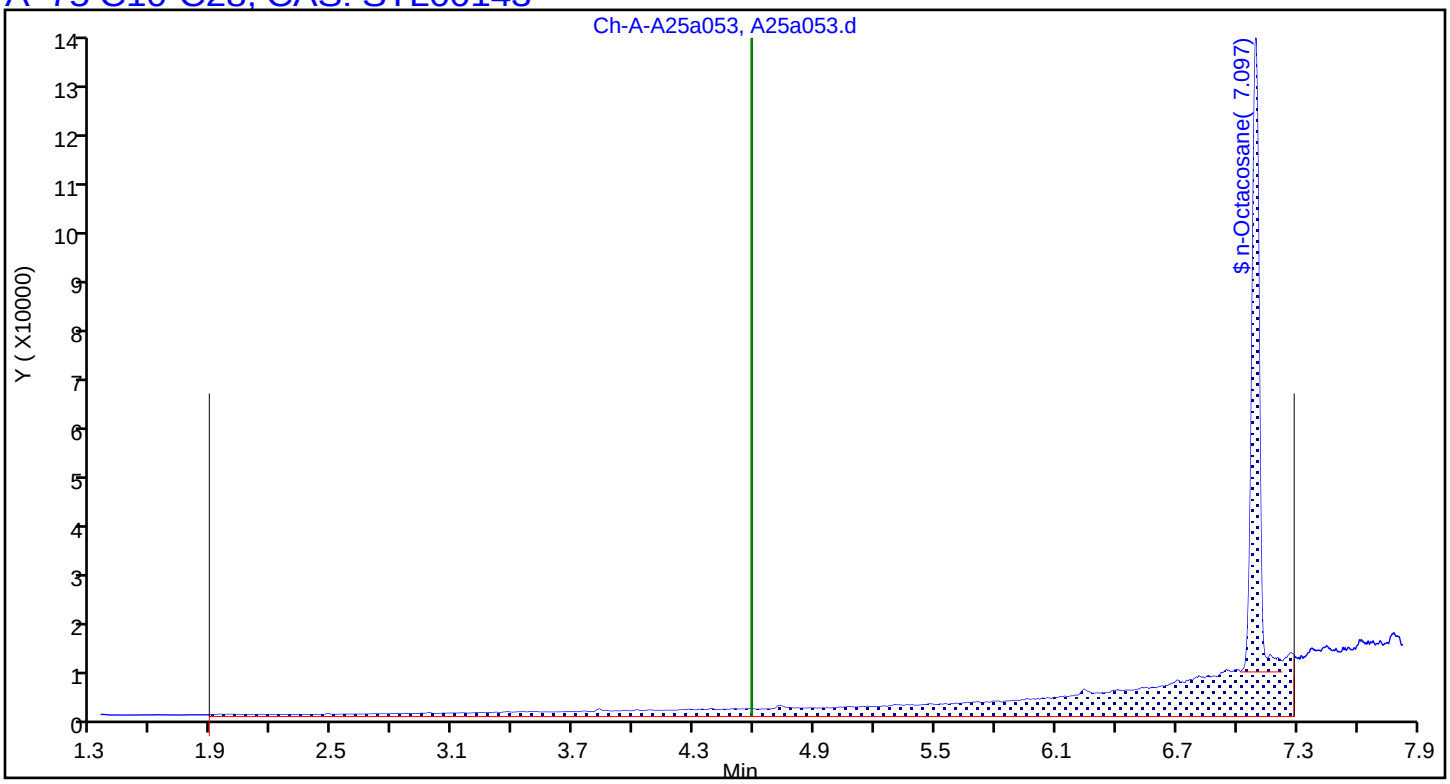
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	96.4	0.00

Report Date: 28-Jan-2019 09:55:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a053.d				
Injection Date:	26-Jan-2019 06:42:45	Instrument ID:	GC69A		
Lims ID:	720-90981-F-16-A	Lab Sample ID:	440-90981-16		
Client ID:	DG-AU11S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

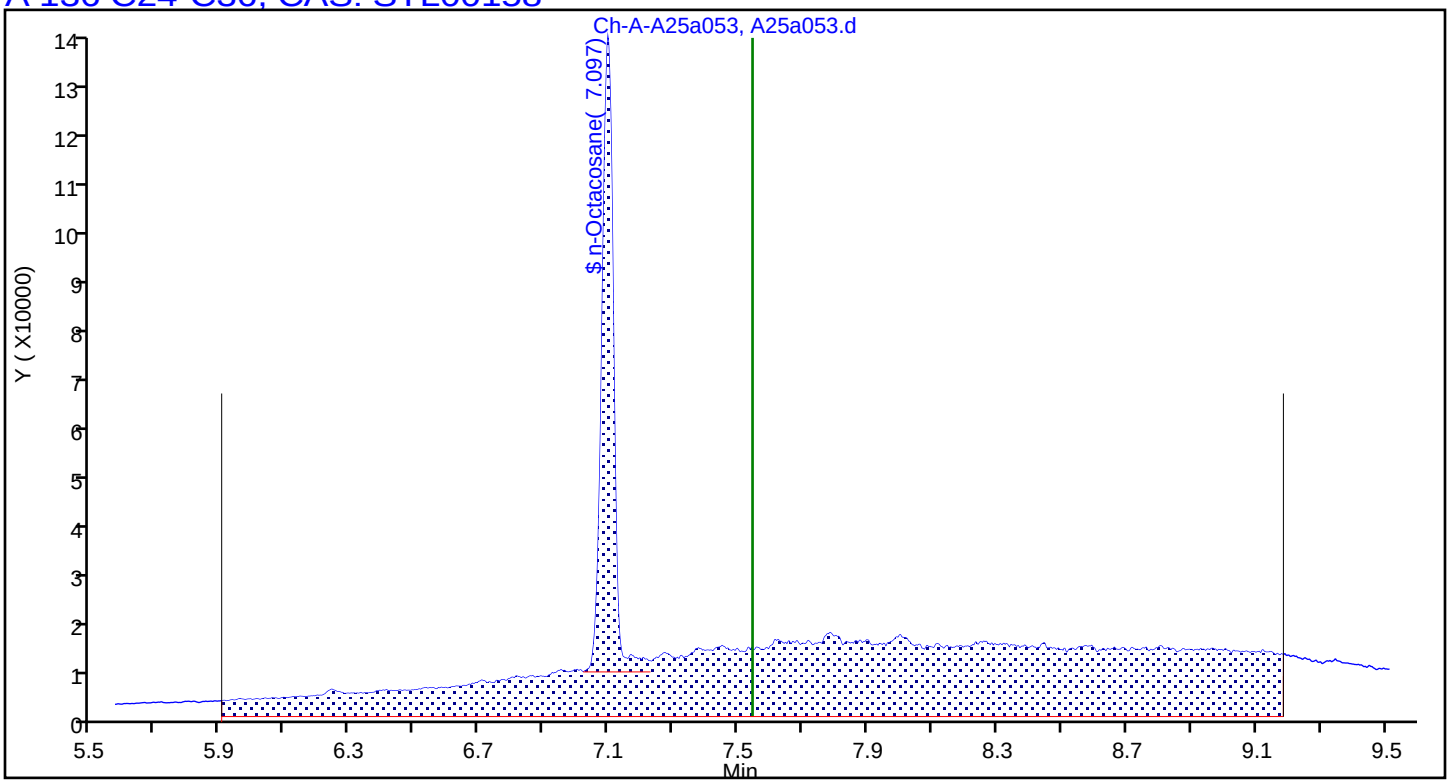


Report Date: 28-Jan-2019 09:55:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a053.d				
Injection Date:	26-Jan-2019 06:42:45	Instrument ID:	GC69A		
Lims ID:	720-90981-F-16-A	Lab Sample ID:	440-90981-16		
Client ID:	DG-AU11S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a054.d				
Lims ID:	720-90981-F-17-A				
Client ID:	DG-AU11S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 07:02:55	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:55:54	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:55:54		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		639344	193.5	
$ 127 n-Octacosane	7.097	7.095	0.002	290397	89.1	
A 136 C24-C36	7.544	(5.902-9.187)		972184	294.3	

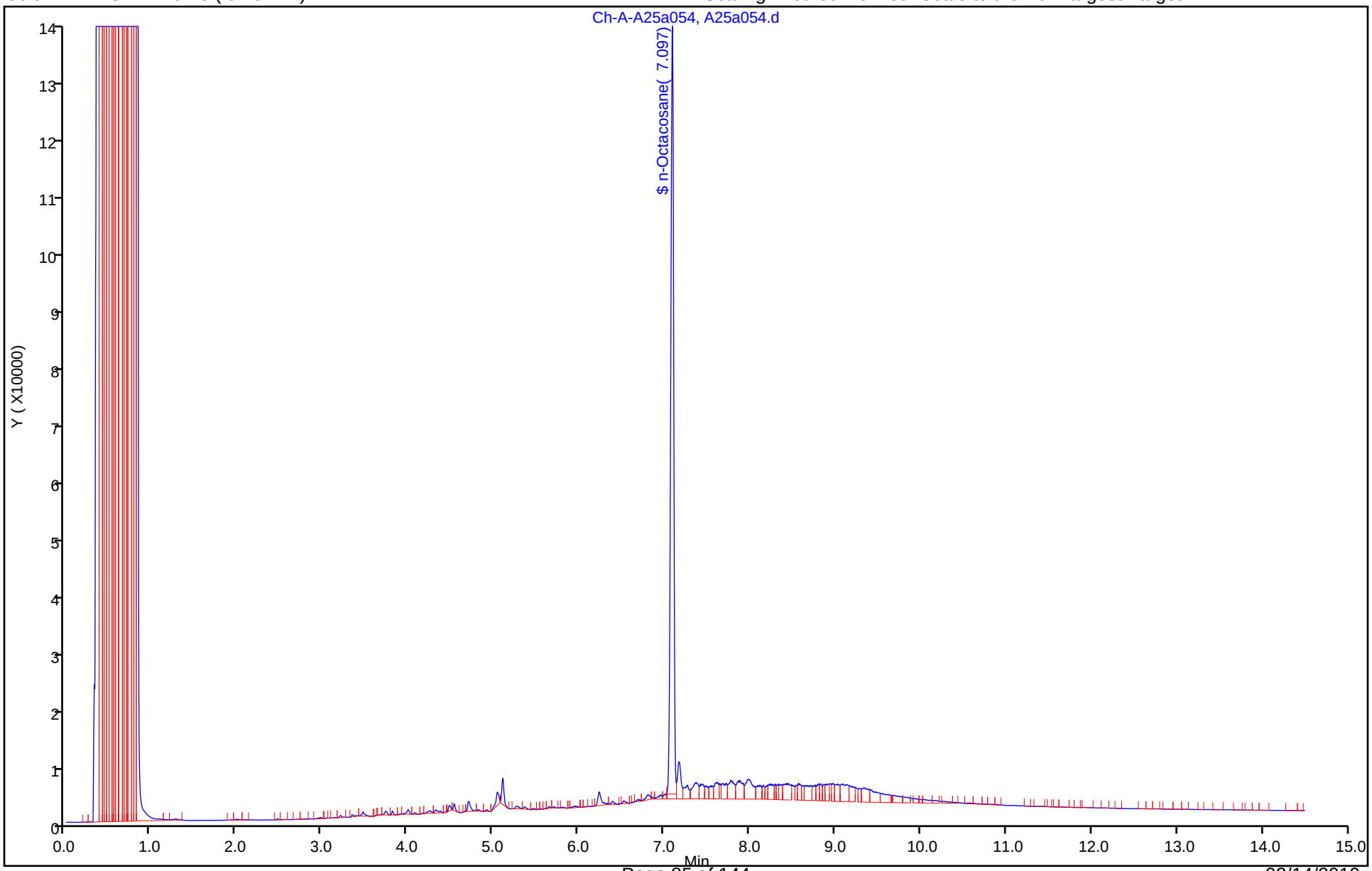
Report Date: 28-Jan-2019 09:55:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a054.d

Injection Date:	26-Jan-2019 07:02:55	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-17-A	Lab Sample ID:	440-90981-17	Worklist Smp#:	54
Client ID:	DG-AU11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a054.d				
Lims ID:	720-90981-F-17-A				
Client ID:	DG-AU11S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 07:02:55	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:55:54	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:55:54		

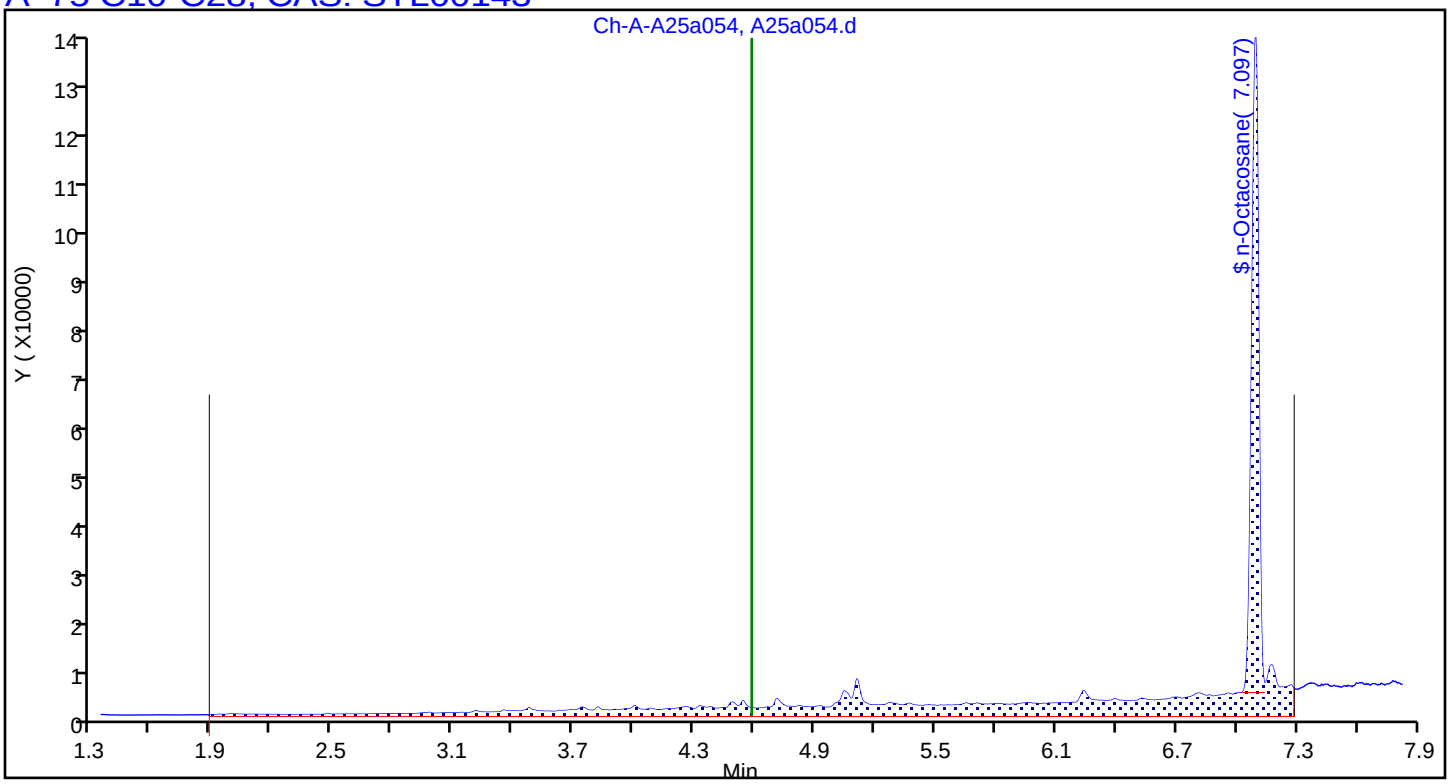
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	89.1	0.00

Report Date: 28-Jan-2019 09:55:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a054.d				
Injection Date:	26-Jan-2019 07:02:55	Instrument ID:	GC69A		
Lims ID:	720-90981-F-17-A	Lab Sample ID:	440-90981-17		
Client ID:	DG-AU11S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

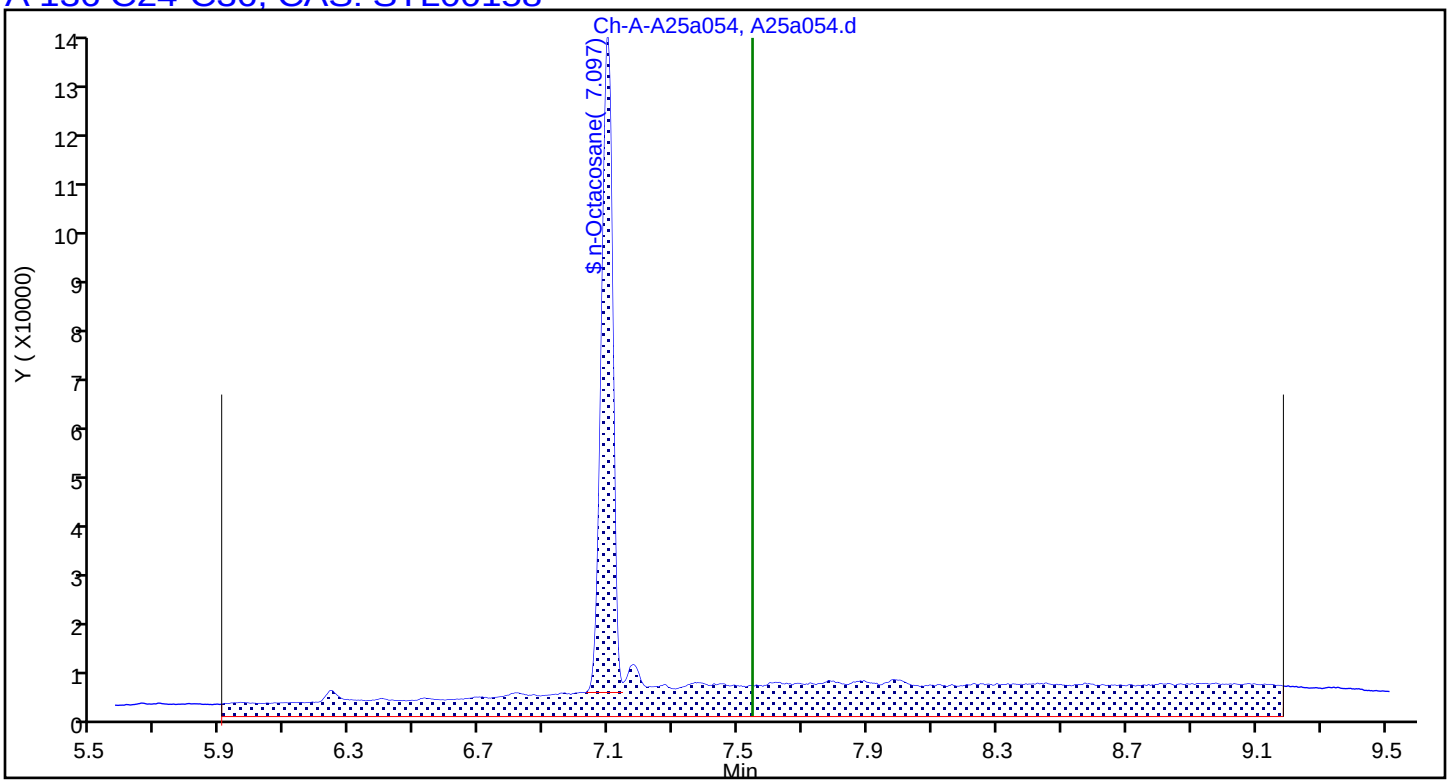


Report Date: 28-Jan-2019 09:55:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a054.d				
Injection Date:	26-Jan-2019 07:02:55	Instrument ID:	GC69A		
Lims ID:	720-90981-F-17-A	Lab Sample ID:	440-90981-17		
Client ID:	DG-AU11S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a066.d				
Lims ID:	720-90981-F-18-A				
Client ID:	DG-AU11S-9.5-10				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 11:07:08	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:58:49	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:58:49		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.885-7.288)		807723	244.5	
$ 127 n-Octacosane	7.095	7.095	0.000	419549	128.8	
A 136 C24-C36	7.544	(5.902-9.187)		469811	142.2	

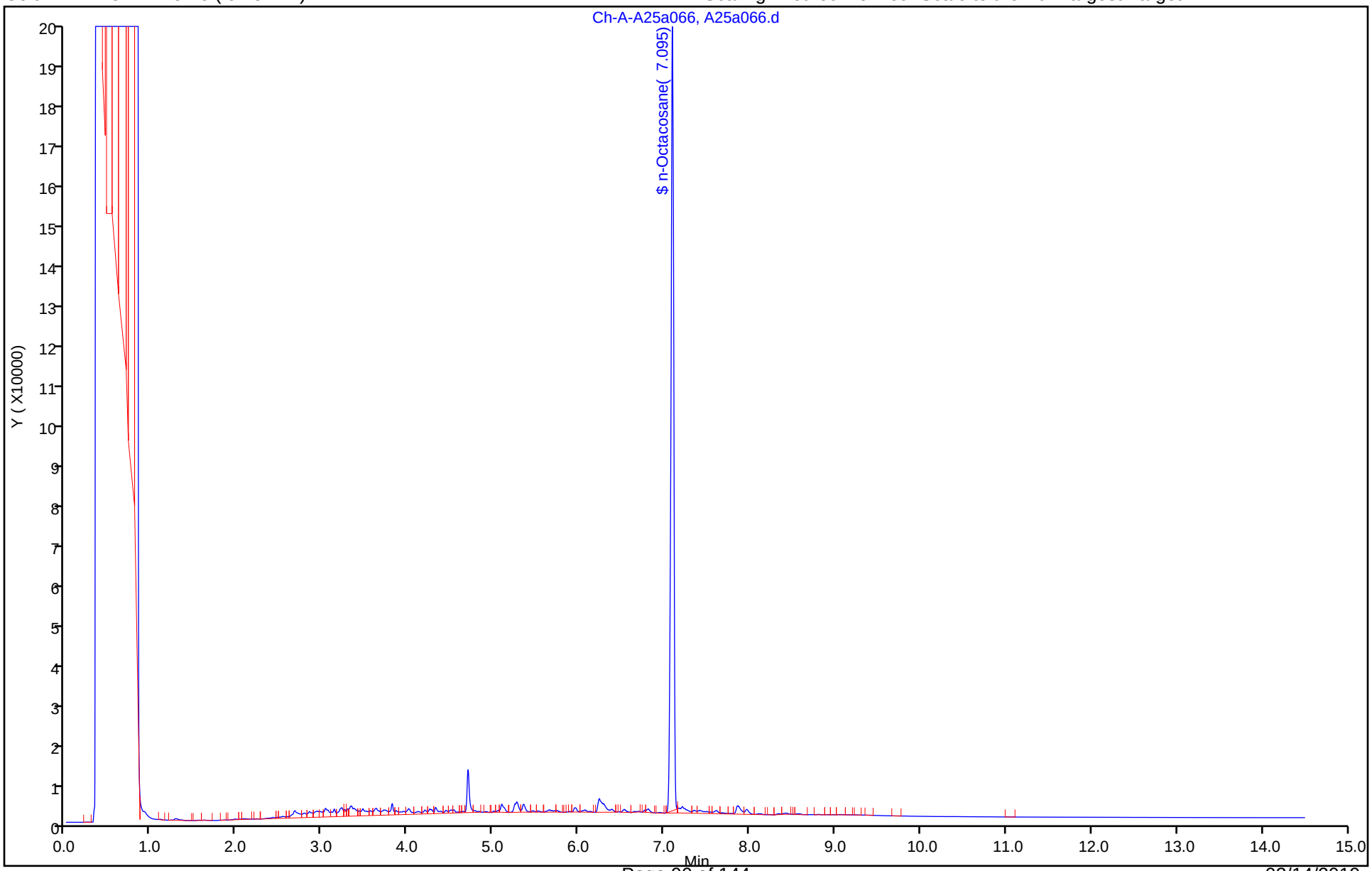
Report Date: 28-Jan-2019 09:58:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a066.d

Injection Date:	26-Jan-2019 11:07:08	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-18-A	Lab Sample ID:	440-90981-18	Worklist Smp#:	66
Client ID:	DG-AU11S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a066.d				
Lims ID:	720-90981-F-18-A				
Client ID:	DG-AU11S-9.5-10				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 11:07:08	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:58:49	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:58:49

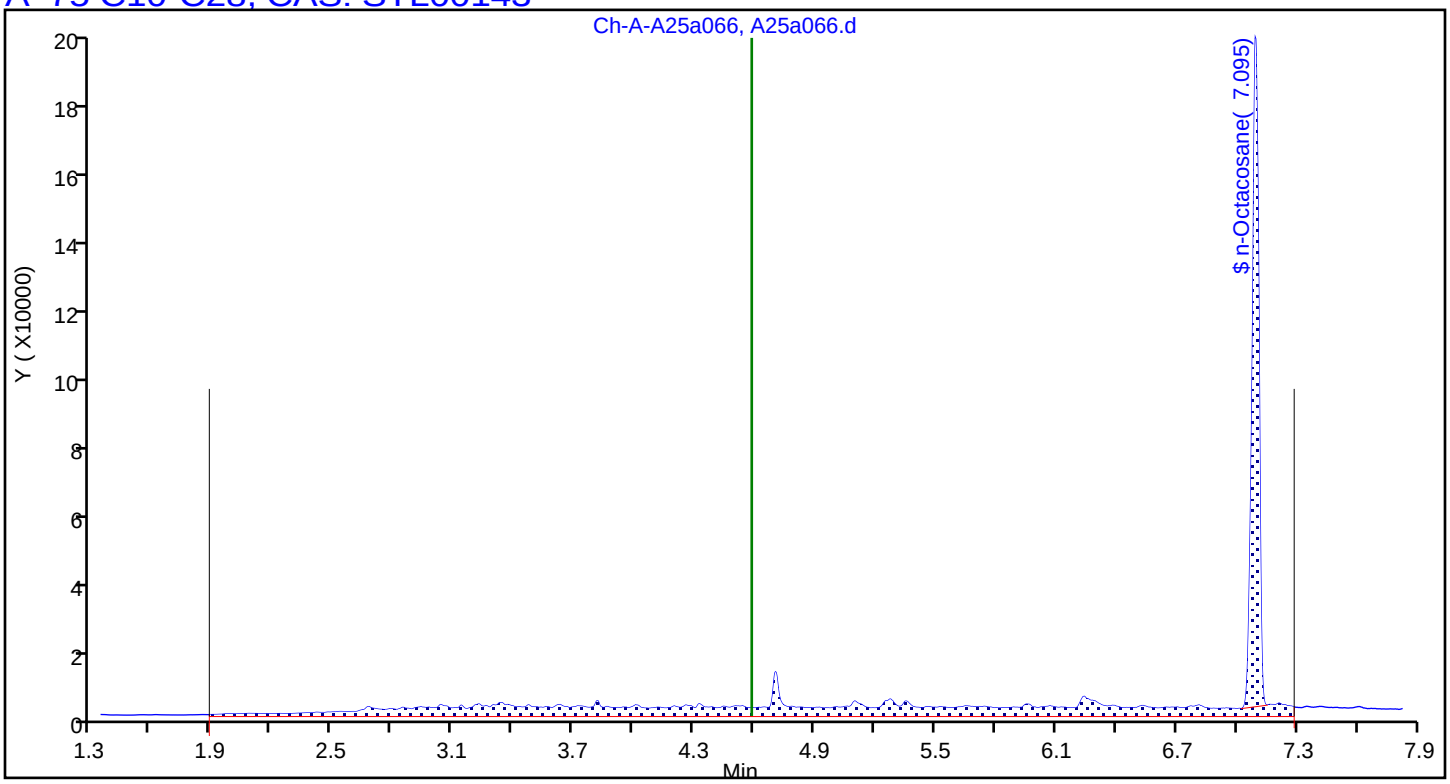
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	128.8	0.00

Report Date: 28-Jan-2019 09:58:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a066.d				
Injection Date:	26-Jan-2019 11:07:08	Instrument ID:	GC69A		
Lims ID:	720-90981-F-18-A	Lab Sample ID:	440-90981-18		
Client ID:	DG-AU11S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

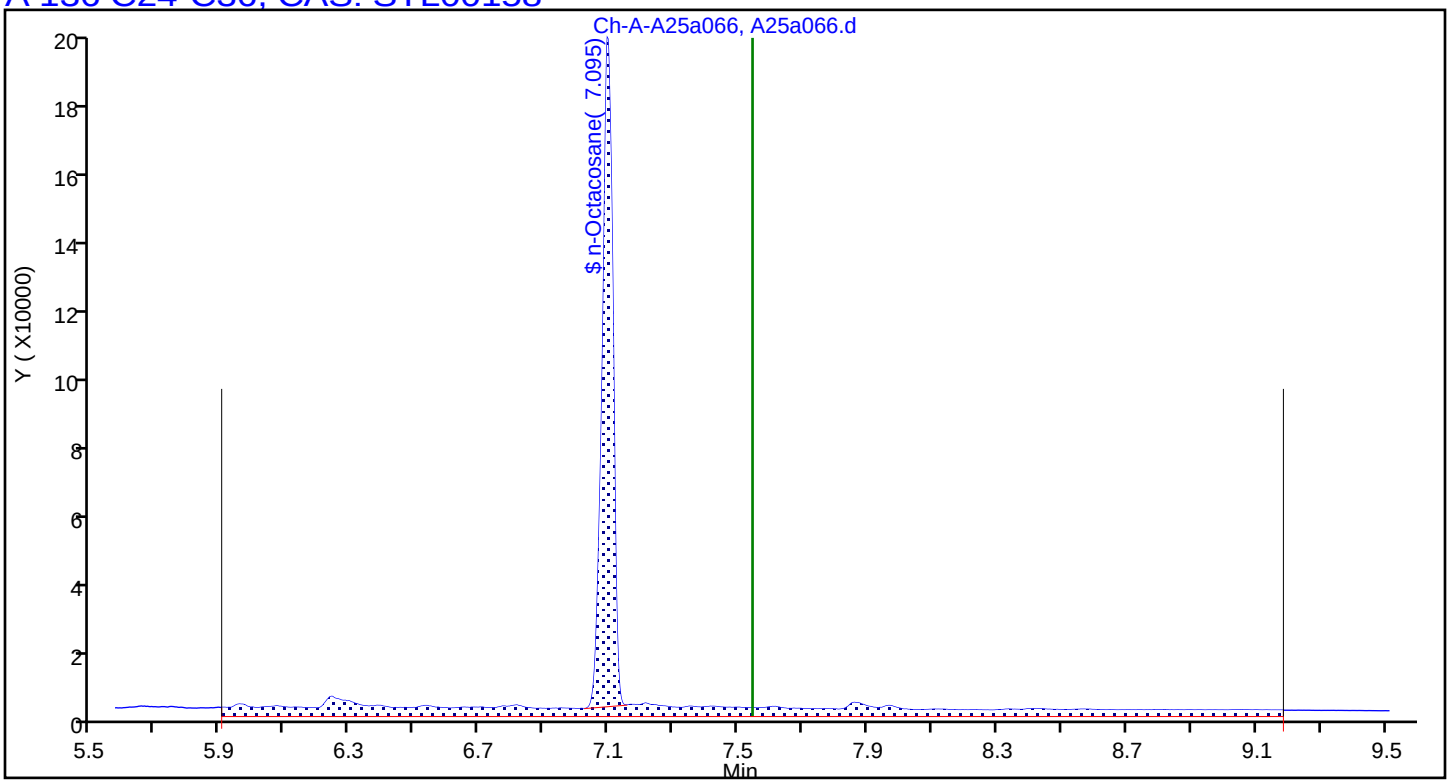


Report Date: 28-Jan-2019 09:58:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a066.d				
Injection Date:	26-Jan-2019 11:07:08	Instrument ID:	GC69A		
Lims ID:	720-90981-F-18-A	Lab Sample ID:	440-90981-18		
Client ID:	DG-AU11S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a059.d				
Lims ID:	720-90981-F-19-A				
Client ID:	DG-AW11S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 08:44:56	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:57:01	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:57:01		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.603	(1.917-7.288)		2839341	859.4	
$ 127 n-Octacosane	7.100	7.095	0.005	288562	88.6	
A 136 C24-C36	7.544	(5.902-9.187)		4431064	1341.2	

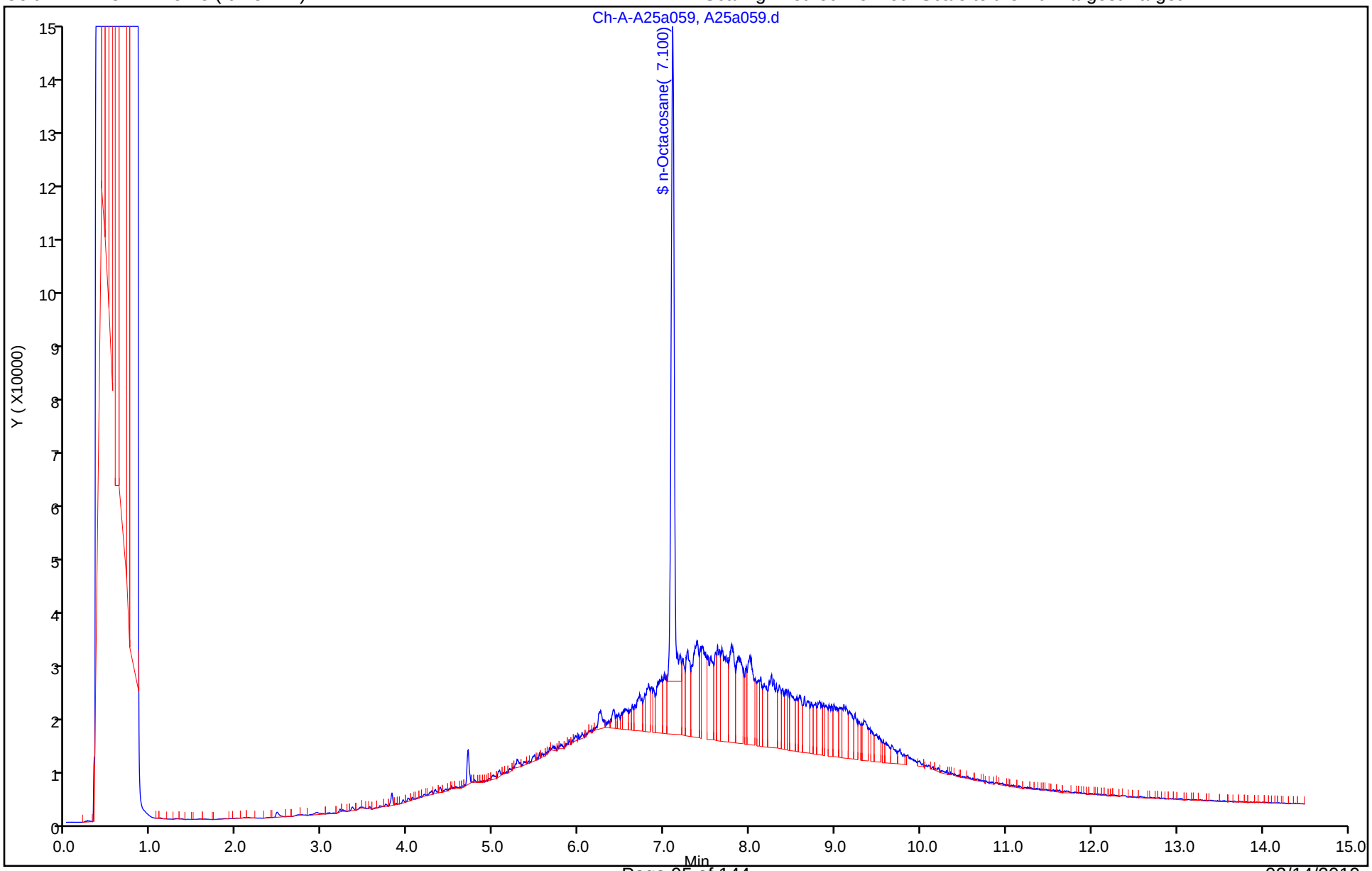
Report Date: 28-Jan-2019 09:57:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a059.d

Injection Date:	26-Jan-2019 08:44:56	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-19-A	Lab Sample ID:	440-90981-19	Worklist Smp#:	59
Client ID:	DG-AW11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a059.d				
Lims ID:	720-90981-F-19-A				
Client ID:	DG-AW11S-0.5-1				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 08:44:56	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:57:01	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: doanm Date: 28-Jan-2019 09:57:01

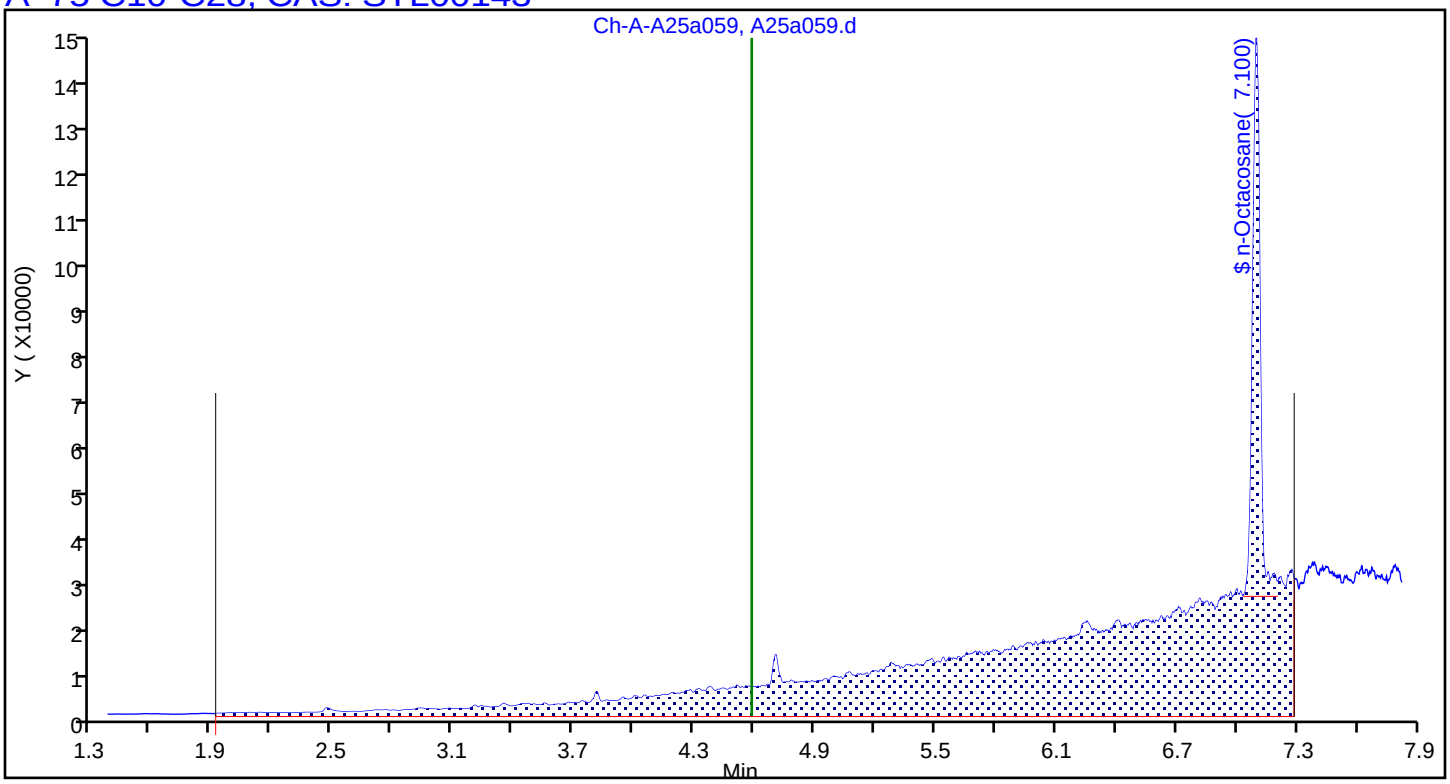
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	88.6	0.00

Report Date: 28-Jan-2019 09:57:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a059.d				
Injection Date:	26-Jan-2019 08:44:56	Instrument ID:	GC69A		
Lims ID:	720-90981-F-19-A	Lab Sample ID:	440-90981-19		
Client ID:	DG-AW11S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

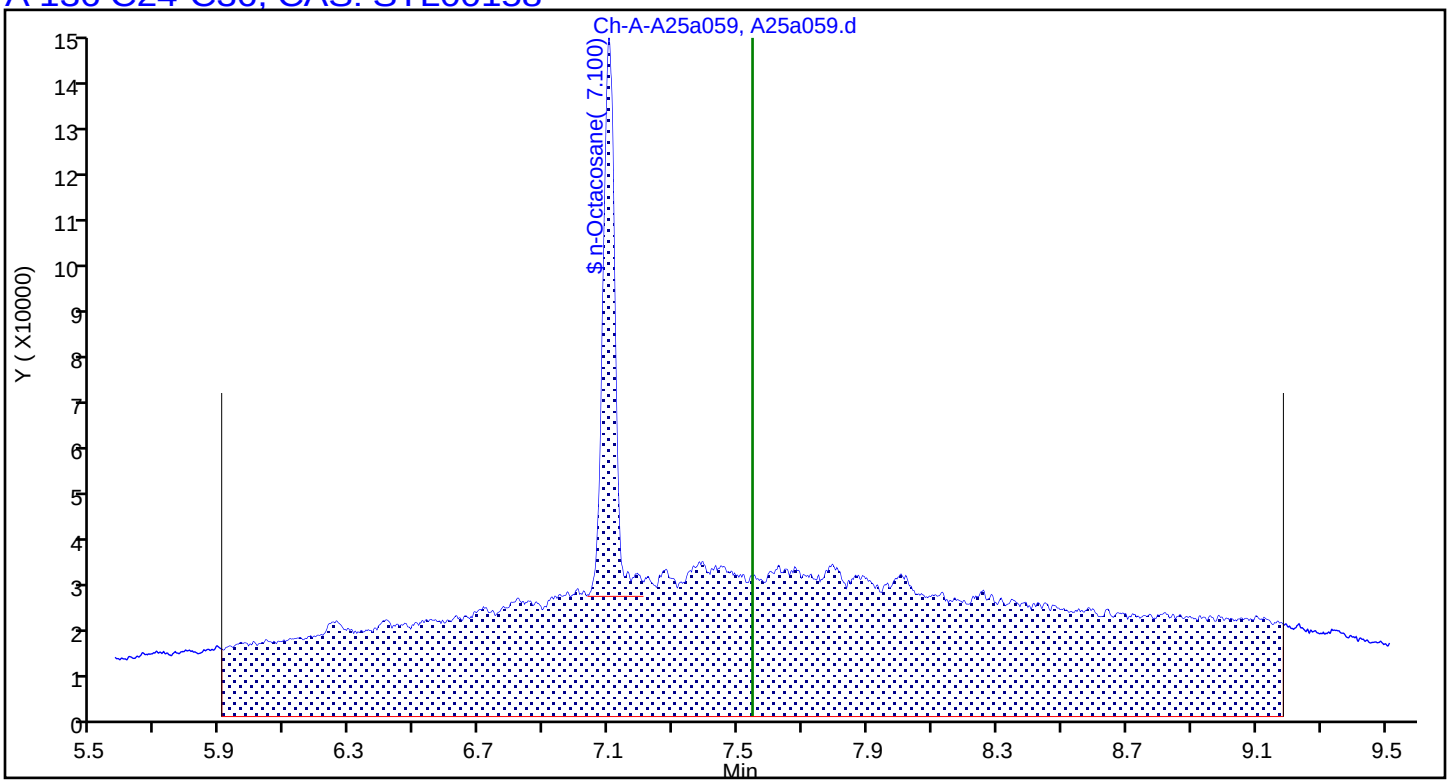


Report Date: 28-Jan-2019 09:57:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a059.d				
Injection Date:	26-Jan-2019 08:44:56	Instrument ID:	GC69A		
Lims ID:	720-90981-F-19-A	Lab Sample ID:	440-90981-19		
Client ID:	DG-AW11S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a060.d				
Lims ID:	720-90981-F-20-A				
Client ID:	DG-AW11S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 09:05:05	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:57:15	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:57:15		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.594	(1.900-7.288)		1171597	354.6	
$ 127 n-Octacosane	7.098	7.095	0.003	292258	89.7	
A 136 C24-C36	7.544	(5.902-9.187)		2095556	634.3	

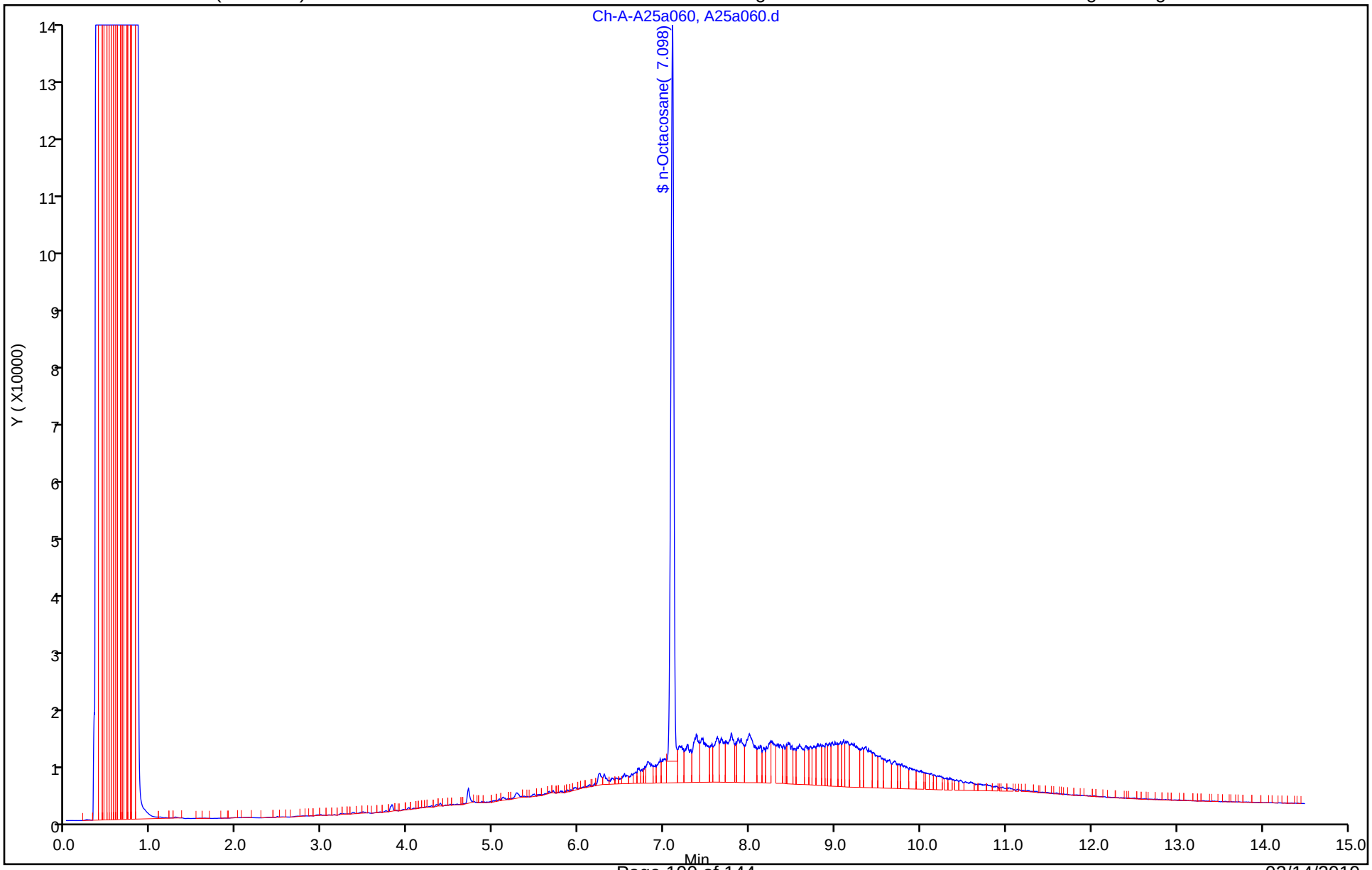
Report Date: 28-Jan-2019 09:57:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a060.d

Injection Date:	26-Jan-2019 09:05:05	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-20-A	Lab Sample ID:	440-90981-20	Worklist Smp#:	60
Client ID:	DG-AW11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a060.d				
Lims ID:	720-90981-F-20-A				
Client ID:	DG-AW11S-3.5-4				
Sample Type:	Client				
Inject. Date:	26-Jan-2019 09:05:05	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	28-Jan-2019 09:57:15	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: doanm		Date:	28-Jan-2019 09:57:15		

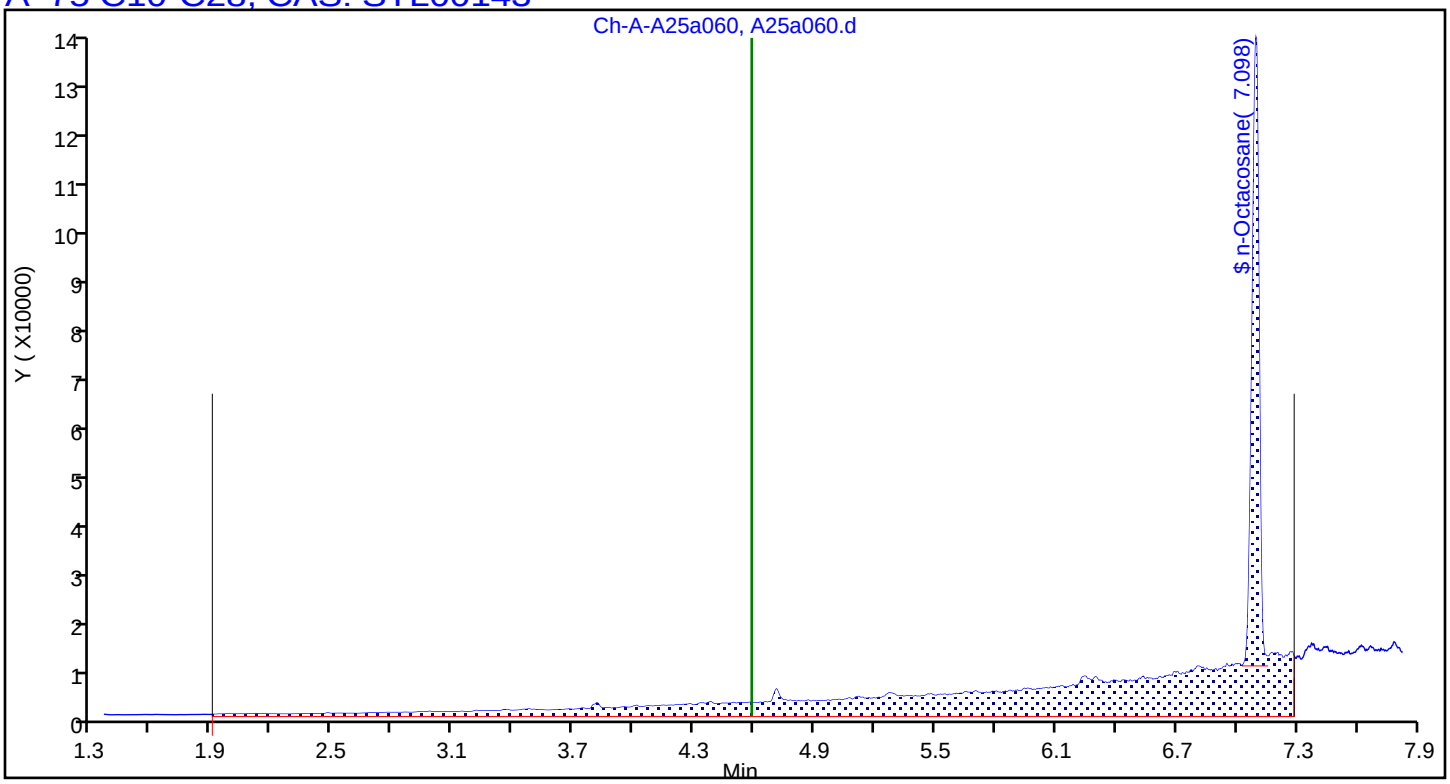
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	0	89.7	0.00

Report Date: 28-Jan-2019 09:57:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a060.d				
Injection Date:	26-Jan-2019 09:05:05	Instrument ID:	GC69A		
Lims ID:	720-90981-F-20-A	Lab Sample ID:	440-90981-20		
Client ID:	DG-AW11S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

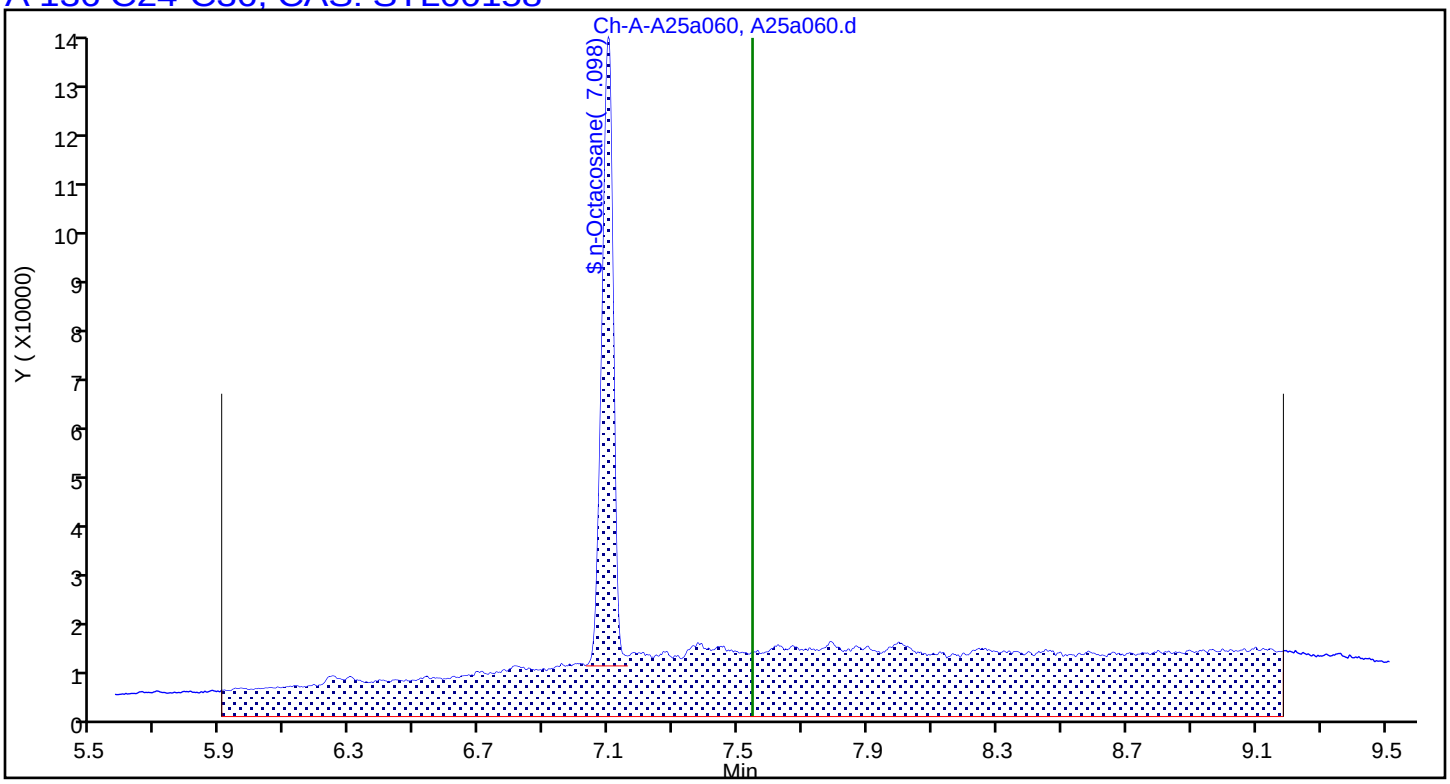


Report Date: 28-Jan-2019 09:57:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190125-114715.b\A25a060.d				
Injection Date:	26-Jan-2019 09:05:05	Instrument ID:	GC69A		
Lims ID:	720-90981-F-20-A	Lab Sample ID:	440-90981-20		
Client ID:	DG-AW11S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a008.d
Lims ID: 720-90981-F-21-C
Client ID: DG-AW11S-7.5-8
Sample Type: Client
Inject. Date: 29-Jan-2019 10:42:58 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC69A

Method: \\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m
Limit Group: GC-8015DRO
Last Update: 29-Jan-2019 10:59:42 Calib Date: 30-Dec-2018 20:20:53
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0317

First Level Reviewer: doanm Date: 29-Jan-2019 10:59:42

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 2 C7 Range	0.652	(0.298-1.005)		23609287	7146.1	
A 4 C8 Range	1.248	(1.005-1.492)		10603	3.21	
A 6 C8-C9	1.452	(1.005-1.898)		17515	5.30	
A 8 C8-C10	1.633	(1.005-2.262)		24363	7.37	
A 9 C9 Range	1.695	(1.492-1.898)		6911	2.09	
A 10 C8-C11	1.798	(1.005-2.592)		33194	10.0	
A 12 C7-C14	1.863	(0.298-3.428)		23774155	7196.0	
A 11 C9-C10	1.877	(1.492-2.262)		13759	4.16	
A 14 C10 Range	2.080	(1.898-2.262)		6848	2.07	
A 15 C9-C12	2.190	(1.492-2.888)		44542	13.5	
A 16 C10-C11	2.245	(1.898-2.592)		15679	4.75	
A 196 C9-C13	2.323	(1.492-3.153)		88533	26.8	
A 20 C8-C15	2.351	(1.005-3.697)		244304	73.9	
A 21 C10-C12	2.393	(1.898-2.888)		37631	11.4	
A 22 C11 Range	2.427	(2.262-2.592)		8831	2.67	
A 23 C8-C16	2.473	(1.005-3.940)		328893	99.5	
A 24 C11-C12	2.575	(2.262-2.888)		30782	9.32	
A 30 C9-C16	2.716	(1.492-3.940)		318290	96.3	
A 27 C8-C18	2.738	(1.005-4.472)		564513	151.1	
A 29 C8-C18 DRO	2.738	(1.005-4.472)		564513	170.9	
A 31 C12 Range	2.740	(2.592-2.888)		21951	6.64	
A 32 C9 - C17	2.854	(1.492-4.217)		430807	130.4	
A 33 C12-C13	2.873	(2.592-3.153)		65942	20.0	
35 C13	2.933	2.925	0.008	382	0.1156	
A 34 C9 - C18	2.982	(1.492-4.472)		553909	167.7	
A 36 C12-C14	3.010	(2.592-3.428)		131673	39.9	
A 37 C13 Range	3.021	(2.888-3.153)		43990	13.3	
A 38 C13-C14	3.158	(2.888-3.428)		109721	33.2	
A 199 C10-C18	3.185	(1.898-4.472)		546998	165.6	
39 n-Tetradecane	3.202	3.203	-0.001	403	0.1220	
A 40 C8-C22	3.290	(1.005-5.575)		1400470	423.9	
A 43 C14 Range	3.291	(3.153-3.428)		65731	19.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 41 C13-C15	3.293	(2.888-3.697)		189158	57.3	
A 44 C14-C15	3.425	(3.153-3.697)		145167	43.9	
A 48 C14-C16	3.547	(3.153-3.940)		229756	69.5	
A 46 C10-C21	3.580	(1.898-5.262)		1064490	322.2	
A 47 C8-C24	3.592	(1.005-6.178)		2167941	656.2	
A 49 C15-C16	3.684	(3.428-3.940)		164025	49.6	
A 50 C10-C22	3.737	(1.898-5.575)		1382955	418.6	
A 52 C9-C24	3.835	(1.492-6.178)		2157337	653.0	
A 53 C10-C23	3.898	(1.898-5.898)		1776632	537.8	
A 55 C11-C22	3.918	(2.262-5.575)		1376107	416.5	
A 54 C12-C21	3.927	(2.592-5.262)		1048810	317.5	
A 56 C16-C17	3.957	(3.697-4.217)		197106	59.7	
A 57 C9-C25	3.983	(1.492-6.473)		2578482	780.5	
A 58 C10-C24	4.038	(1.898-6.178)		2150426	650.9	
A 60 C12-C22	4.083	(2.592-5.575)		1367276	413.8	
A 61 C8-C28	4.140	(1.005-7.275)		3887769	1176.8	
A 63 C10-C25	4.186	(1.898-6.473)		2571570	778.4	
A 65 C17-C18	4.206	(3.940-4.472)		235619	71.3	
A 64 C15-C20	4.207	(3.428-4.985)		700540	212.0	
A 66 C13-C22	4.232	(2.888-5.575)		1345324	407.2	
A 67 C12-C23	4.245	(2.592-5.898)		1760953	533.0	
A 71 C12-C24	4.385	(2.592-6.178)		2134746	646.1	
A 70 C13-C23	4.393	(2.888-5.898)		1739001	526.4	
A 69 C8-C30	4.396	(1.005-7.787)		4714078	1426.9	
A 72 C18-C19	4.480	(4.217-4.743)		270956	82.0	
74 C19	4.515	4.520	-0.005	235	0.0711	
A 62 Diesel	4.587	(1.898-7.275)		3777345	1143.3	
A 75 C10-C28	4.587	(1.898-7.275)		3870254	1171.5	
A 77 C16-C22	4.636	(3.697-5.575)		1156166	350.0	
A 76 C8-C32	4.645	(1.005-8.285)		5299006	1603.9	
A 78 C19-C20	4.728	(4.472-4.985)		300894	91.1	
A 87 C7-C36	4.742	(0.298-9.185)		29563705	8948.4	E
A 80 C10-C30	4.843	(1.898-7.787)		4696562	1421.6	
A 81 C8-C34	4.858	(1.005-8.712)		5653272	1711.1	
A 197 C13-C27	4.954	(2.888-7.020)		3392630	1026.9	
A 82 C20-C21	5.003	(4.743-5.262)		369637	111.9	
A 85 C13-C28	5.082	(2.888-7.275)		3832623	1160.1	
A 84 C10-C32	5.092	(1.898-8.285)		5281491	1598.6	
A 83 C8-C36	5.095	(1.005-9.185)		5954417	1802.3	
A 88 C21-C22	5.280	(4.985-5.575)		535062	162.0	
A 89 C20-C23	5.321	(4.743-5.898)		1081779	327.4	
A 90 C13-C30	5.338	(2.888-7.787)		4658931	1410.2	
A 93 C10-C36	5.542	(1.898-9.185)		5936901	1797.0	
A 92 C22-C23	5.580	(5.262-5.898)		712142	215.6	
A 94 C13-C32	5.587	(2.888-8.285)		5243860	1587.2	
A 95 C12-C34	5.652	(2.592-8.712)		5620078	1701.1	
A 97 C8-C40	5.681	(1.005-10.357)		6328089	1915.4	
A 198 C18-C28	5.746	(4.217-7.275)		3446358	1043.2	
A 98 C23-C24	5.877	(5.575-6.178)		767470	232.3	
A 99 C9-C40	5.909	(1.492-10.327)		6311482	1910.4	
A 100 C18-C30	6.002	(4.217-7.787)		4272667	1293.3	
A 102 C13-C36	6.037	(2.888-9.185)		5899270	1785.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 209 C17-C32	6.113	(3.940-8.285)		4970112	1504.4	
A 104 C10-C40	6.128	(1.898-10.357)		6310574	1910.1	
A 103 C24-C25	6.186	(5.898-6.473)		794938	240.6	
105 C25	6.247	6.255	-0.008	14272	4.32	
A 106 C21-C30	6.386	(4.985-7.787)		3848670	1164.9	
A 108 C16-C36	6.441	(3.697-9.185)		5710112	1728.3	
A 107 C24-C27	6.459	(5.898-7.020)		1653628	500.5	
A 109 C25-C26	6.467	(6.178-6.755)		843409	255.3	
A 110 C20-C32	6.514	(4.743-8.285)		4586638	1388.3	
A 112 C17-C36	6.563	(3.940-9.185)		5625523	1702.7	
A 116 C13 - C40	6.623	(2.888-10.357)		6272943	1898.7	
A 115 C13-C40	6.623	(2.888-10.357)		6272943	1898.7	
A 114 C18-C36	6.701	(4.217-9.185)		5513006	1668.7	
A 121 C8-C44	6.706	(1.005-12.407)		6618663	2003.3	
A 117 C25-C28	6.727	(6.178-7.275)		1719828	520.6	
A 118 C26-C27	6.747	(6.473-7.020)		858690	259.9	
A 119 C22-C32	6.773	(5.262-8.285)		4217001	1276.4	
120 C27	6.822	6.823	-0.001	71486	21.6	
A 122 C23-C32	6.930	(5.575-8.285)		3898535	1180.0	
A 210 C20-C36	6.964	(4.743-9.185)		5242049	1586.7	
A 123 C27-C28	7.015	(6.755-7.275)		876418	265.3	
A 126 C16-C40	7.022	(3.697-10.347)		6081790	1840.8	
A 124 C22-C35	7.083	(5.262-8.903)		4703385	1423.6	
A 125 C24-C32	7.092	(5.898-8.285)		3504858	1060.9	
$ 127 n-Octacosane	7.088	7.118	-0.030	29654	9.10	
A 128 C23-C34	7.143	(5.575-8.712)		4252802	1287.2	
A 132 C10-C44	7.153	(1.898-12.407)		6601148	1998.0	
A 129 C23-C35	7.239	(5.575-8.903)		4384920	1327.2	
A 130 C28-C29	7.260	(7.020-7.500)		825146	249.8	
A 131 C18-C40	7.287	(4.217-10.357)		5886678	1781.8	
134 C29	7.392	7.365	0.027	64949	19.7	
A 133 C23-C36	7.380	(5.575-9.185)		4553946	1378.4	
A 135 C19-C40	7.414	(4.472-10.357)		5763576	1744.5	
A 138 C28-C31	7.514	(7.020-8.008)		1557587	471.5	
A 137 C29-C30	7.531	(7.275-7.787)		826308	250.1	
A 136 C24-C36	7.542	(5.898-9.185)		4160269	1259.2	
A 139 C20-C40	7.550	(4.743-10.357)		5615721	1699.8	
A 144 C13-C44	7.648	(2.888-12.407)		6563517	1986.7	
A 141 C25-C36	7.682	(6.178-9.185)		3786475	1146.1	
A 142 C30-C31	7.754	(7.500-8.008)		732441	221.7	
A 143 C29-C32	7.780	(7.275-8.285)		1411236	427.2	
145 C31	7.857	7.875	-0.018	47107	14.3	
A 146 C23-C40	7.966	(5.575-10.357)		4927619	1491.5	
A 147 C31-C32	8.036	(7.787-8.285)		584928	177.0	
A 148 C28-C36	8.103	(7.020-9.185)		2506640	758.7	
A 150 C24-C40	8.128	(5.898-10.357)		4533942	1372.3	
A 153 C17-C44	8.158	(3.940-12.377)		6286399	1902.8	
A 151 C25-C40	8.268	(6.178-10.357)		4160148	1259.2	
152 C33	8.347	8.357	-0.010	26068	7.89	
A 154 C32-C35	8.456	(8.008-8.903)		780026	236.1	
A 155 C33-C34	8.498	(8.285-8.712)		354266	107.2	
A 157 C32-C36	8.597	(8.008-9.185)		949052	287.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 158 C33-C36	8.735	(8.285-9.185)		655410	198.4	
A 160 C29-C40	8.816	(7.275-10.357)		2440319	738.6	
A 161 C35-C36	8.948	(8.712-9.185)		301144	91.2	
A 164 C23-C44	8.991	(5.575-12.407)		5218193	1579.5	
A 163 C31-C40	9.072	(7.787-10.357)		1614011	488.5	
A 166 C24-C44	9.153	(5.898-12.407)		4824516	1460.3	
A 167 C33-C40	9.321	(8.285-10.357)		1029083	311.5	
A 168 C37-C38	9.423	(9.185-9.662)		200150	60.6	
A 169 C36-C39	9.458	(8.903-10.013)		467748	141.6	
170 C38	9.488	9.523	-0.035	598	0.1810	
A 171 C35-C40	9.529	(8.712-10.347)		672822	203.7	
A 172 C36-C40	9.630	(8.903-10.357)		542698	164.3	
A 174 C37-C40	9.771	(9.185-10.357)		373672	113.1	
A 177 C29-C44	9.826	(7.275-12.377)		2727522	825.6	
175 C39	9.768	9.828	-0.060	1107	0.3351	
A 178 C39-C40	10.009	(9.662-10.357)		173522	52.5	
179 C40	10.180	10.185	-0.005	102	0.0309	
A 180 C33-C44	10.346	(8.285-12.407)		1319657	399.4	
A 173 C40-C44	11.210	(10.013-12.407)		365524	110.6	
A 176 C41-C44	11.367	(10.327-12.407)		296577	89.8	
S 189 HC Dist (C13-C44)					1988.5	
S 190 HC Dist (C13-C28)					1160.1	
S 191 HC Dist (C8-C40)					1915.4	
S 192 HC Dist (C8-C44)					2005.2	
S 193 HC Dist (C10-C44)					1999.9	
S 188 HC Dist (C10-C40)					1910.1	
S 195 HC Dist (C13-C40)					1898.7	
S 194 HC Dist (C10-C36)					1797.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

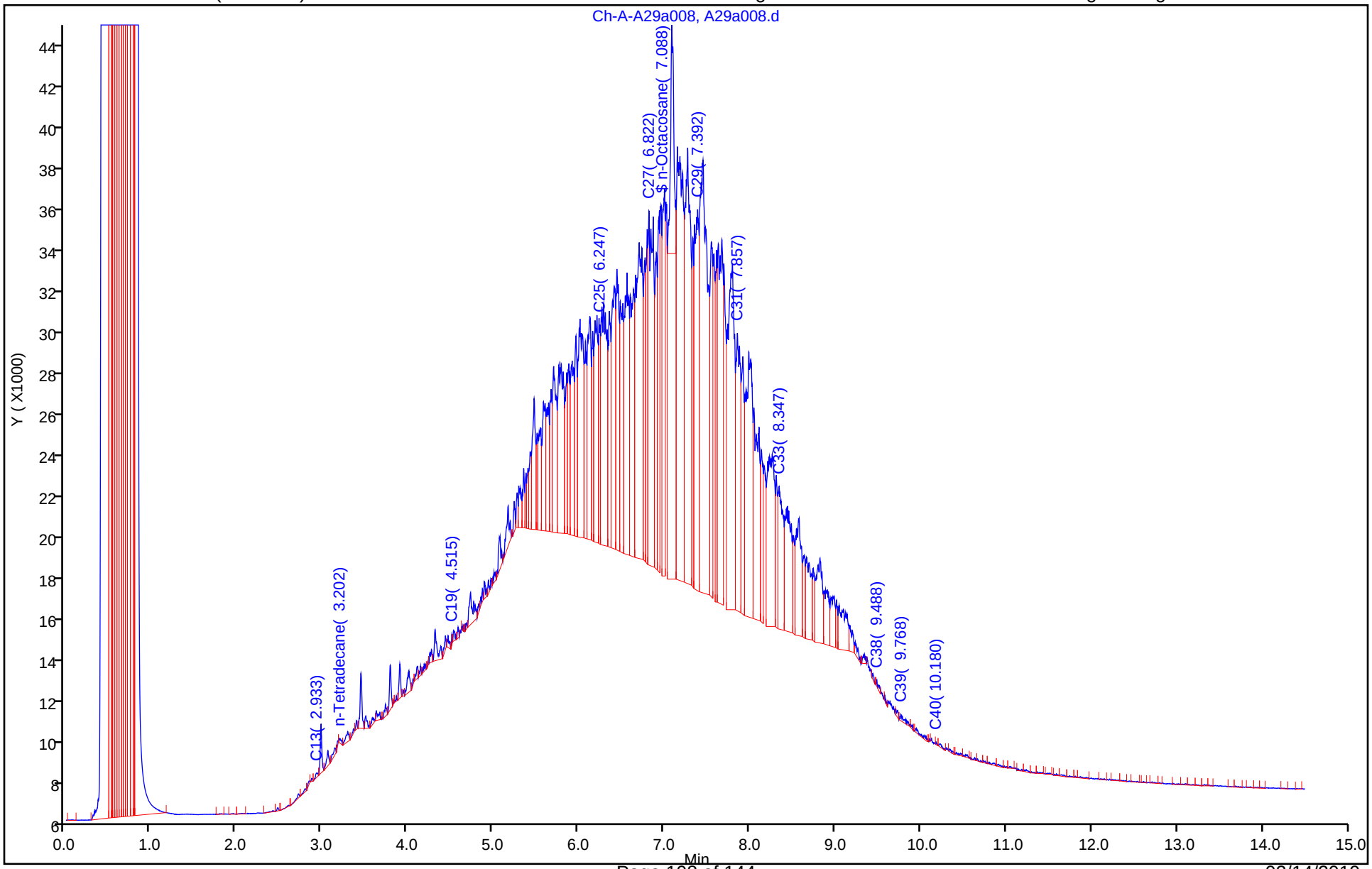
Report Date: 29-Jan-2019 10:59:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a008.d

Injection Date:	29-Jan-2019 10:42:58	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-21-C	Lab Sample ID:	440-90981-21	Worklist Smp#:	8
Client ID:	DG-AW11S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a008.d				
Lims ID:	720-90981-F-21-C				
Client ID:	DG-AW11S-7.5-8				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 10:42:58	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 10:59:42	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 10:59:42

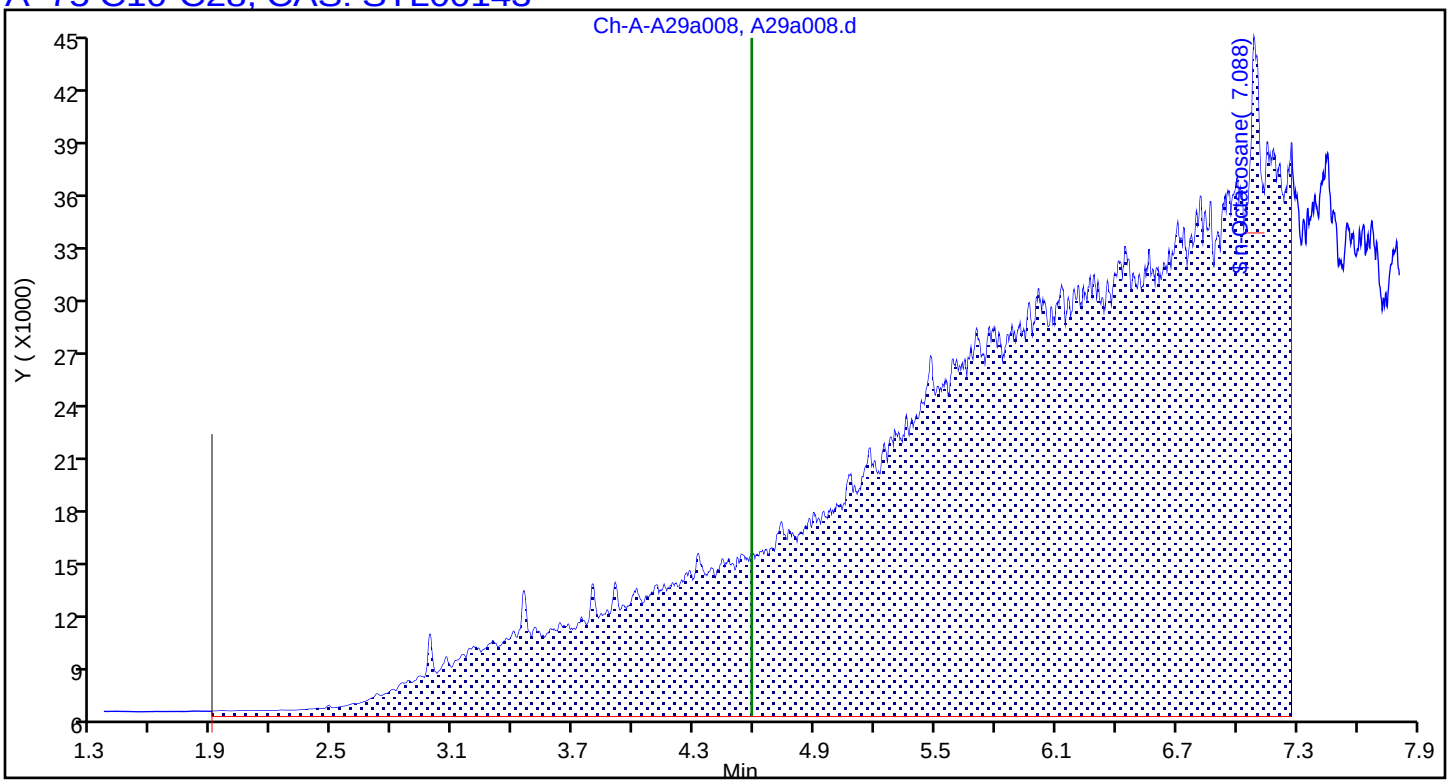
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	9.10	91.02

Report Date: 29-Jan-2019 10:59:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a008.d				
Injection Date:	29-Jan-2019 10:42:58	Instrument ID:	GC69A		
Lims ID:	720-90981-F-21-C	Lab Sample ID:	440-90981-21		
Client ID:	DG-AW11S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

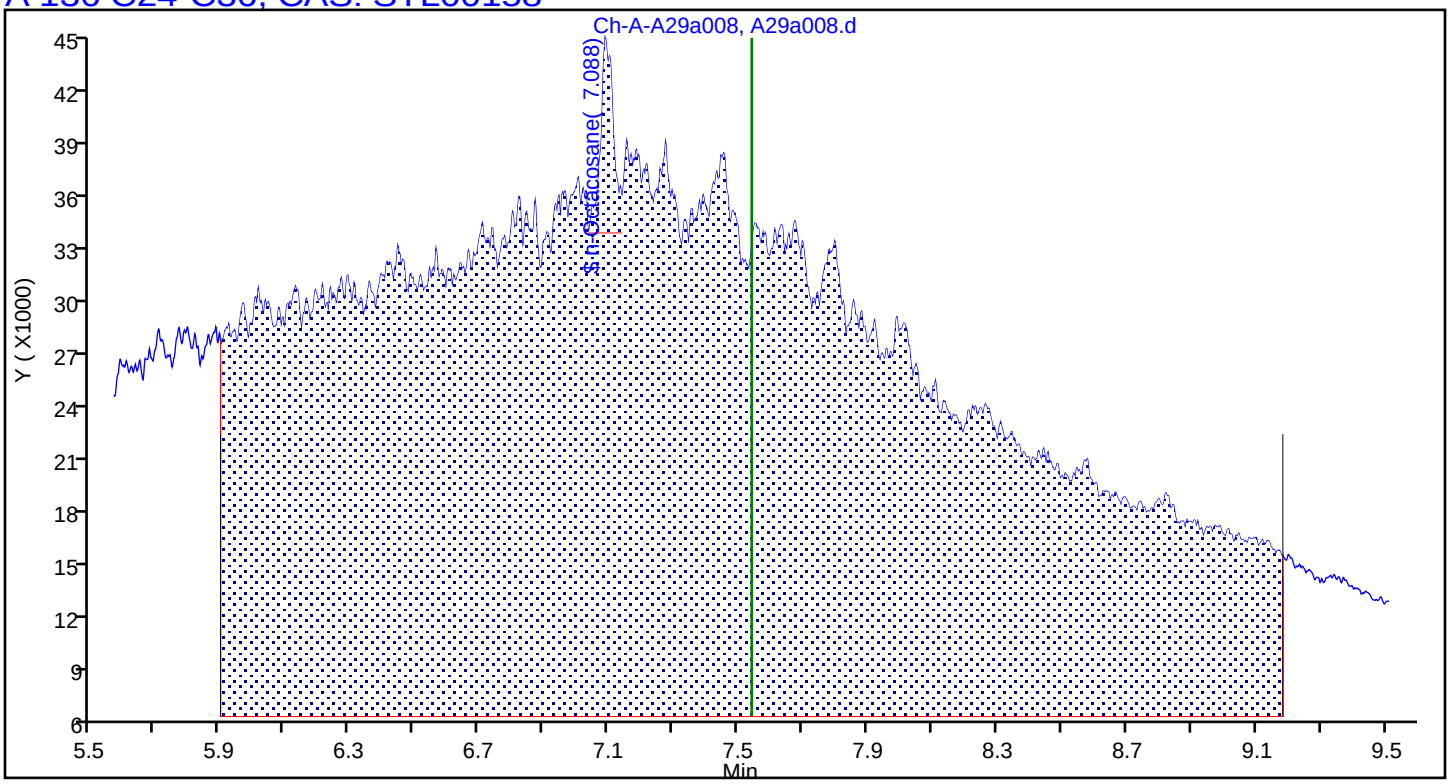


Report Date: 29-Jan-2019 10:59:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a008.d				
Injection Date:	29-Jan-2019 10:42:58	Instrument ID:	GC69A		
Lims ID:	720-90981-F-21-C	Lab Sample ID:	440-90981-21		
Client ID:	DG-AW11S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a017.d				
Lims ID:	720-90981-F-22-A				
Client ID:	DG-AT12S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 13:49:12	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 14:09:38	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 14:09:38		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.593	(1.912-7.275)		2773453	839.5	
$ 127 n-Octacosane	7.100	7.118	-0.018	342010	105.0	
A 136 C24-C36	7.542	(5.898-9.185)		2686587	813.2	

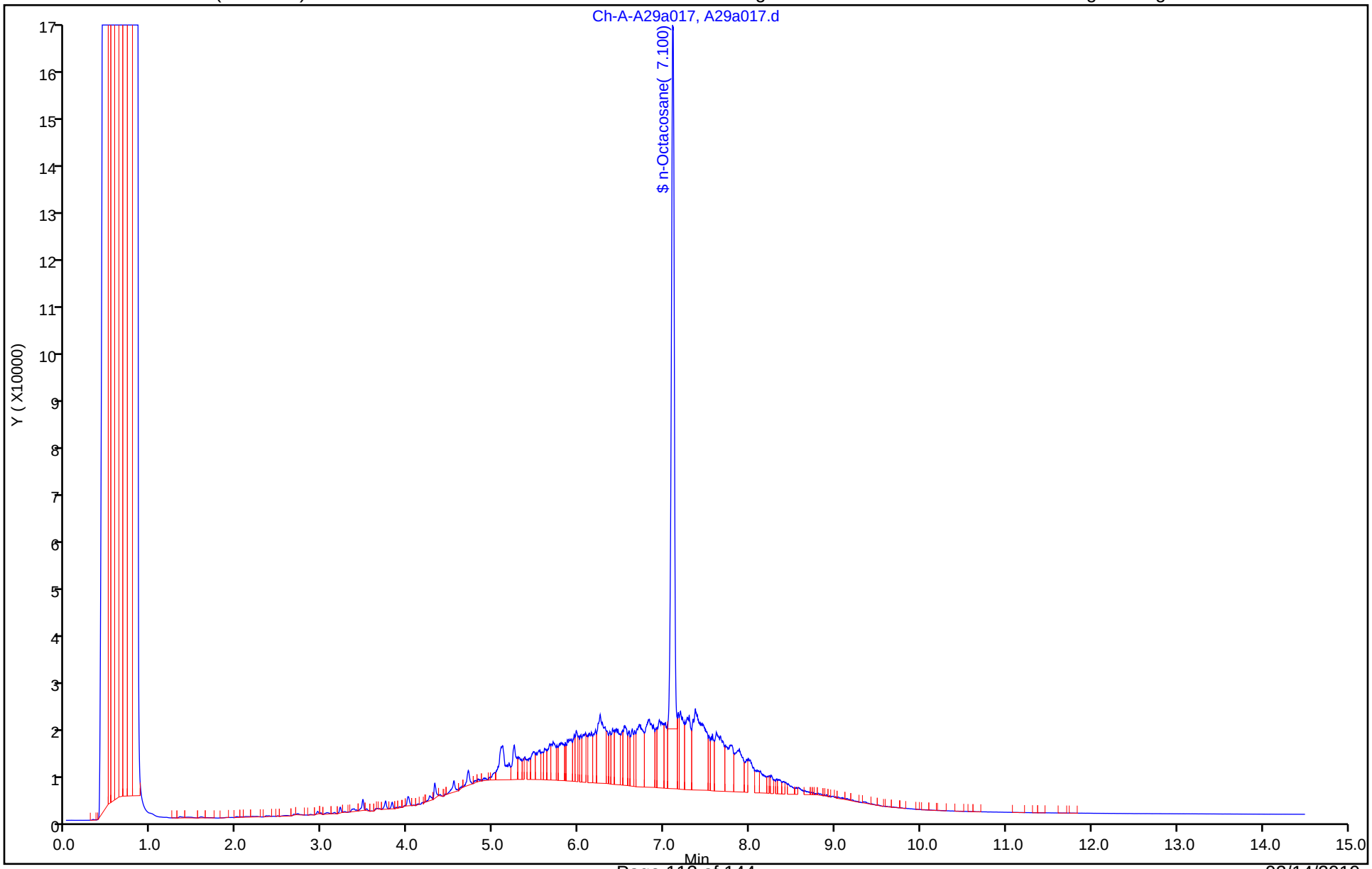
Report Date: 29-Jan-2019 14:09:38 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a017.d

Injection Date:	29-Jan-2019 13:49:12	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-22-A	Lab Sample ID:	440-90981-22	Worklist Smp#:	17
Client ID:	DG-AT12S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a017.d				
Lims ID:	720-90981-F-22-A				
Client ID:	DG-AT12S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 13:49:12	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 14:09:38	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 14:09:38

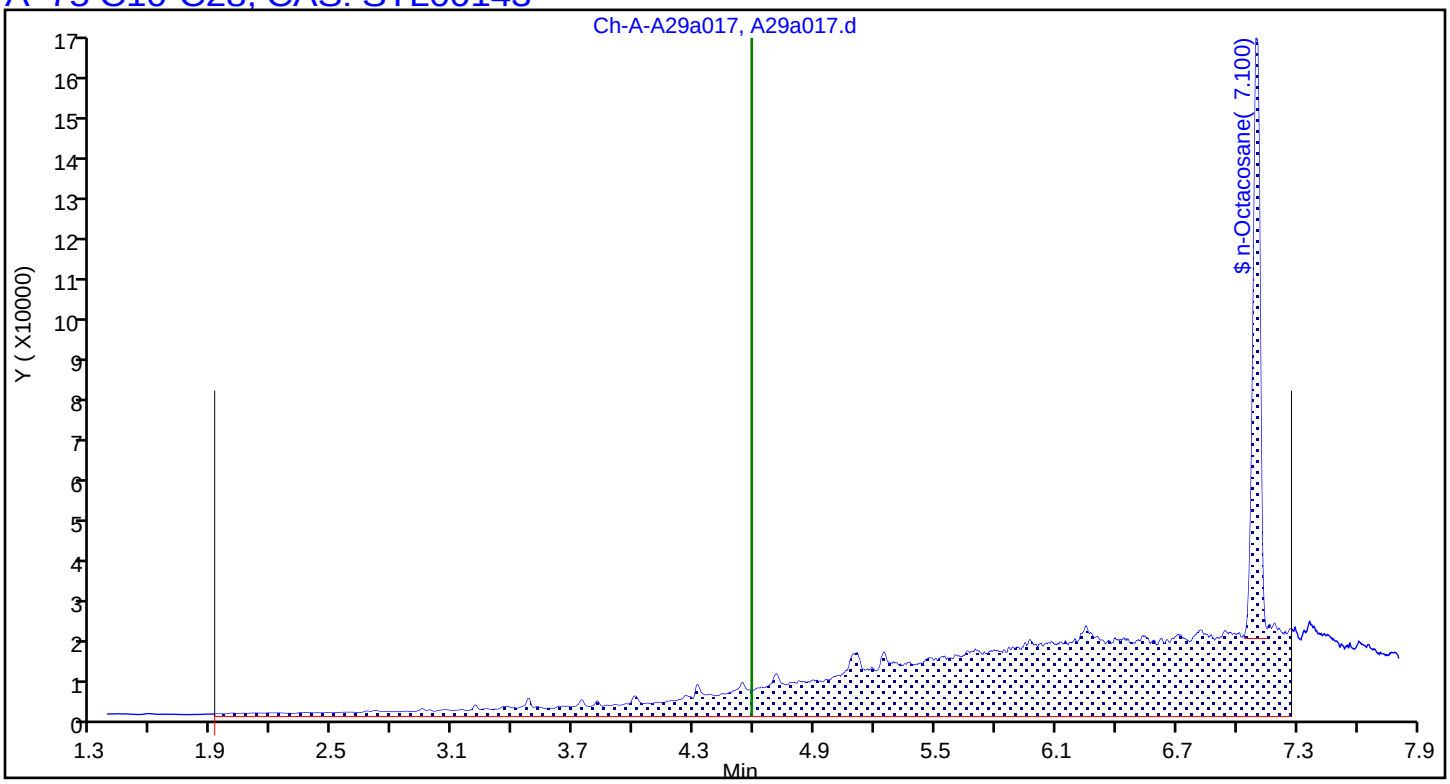
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	105.0	52.49

Report Date: 29-Jan-2019 14:09:38 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a017.d				
Injection Date:	29-Jan-2019 13:49:12	Instrument ID:	GC69A		
Lims ID:	720-90981-F-22-A	Lab Sample ID:	440-90981-22		
Client ID:	DG-AT12S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143



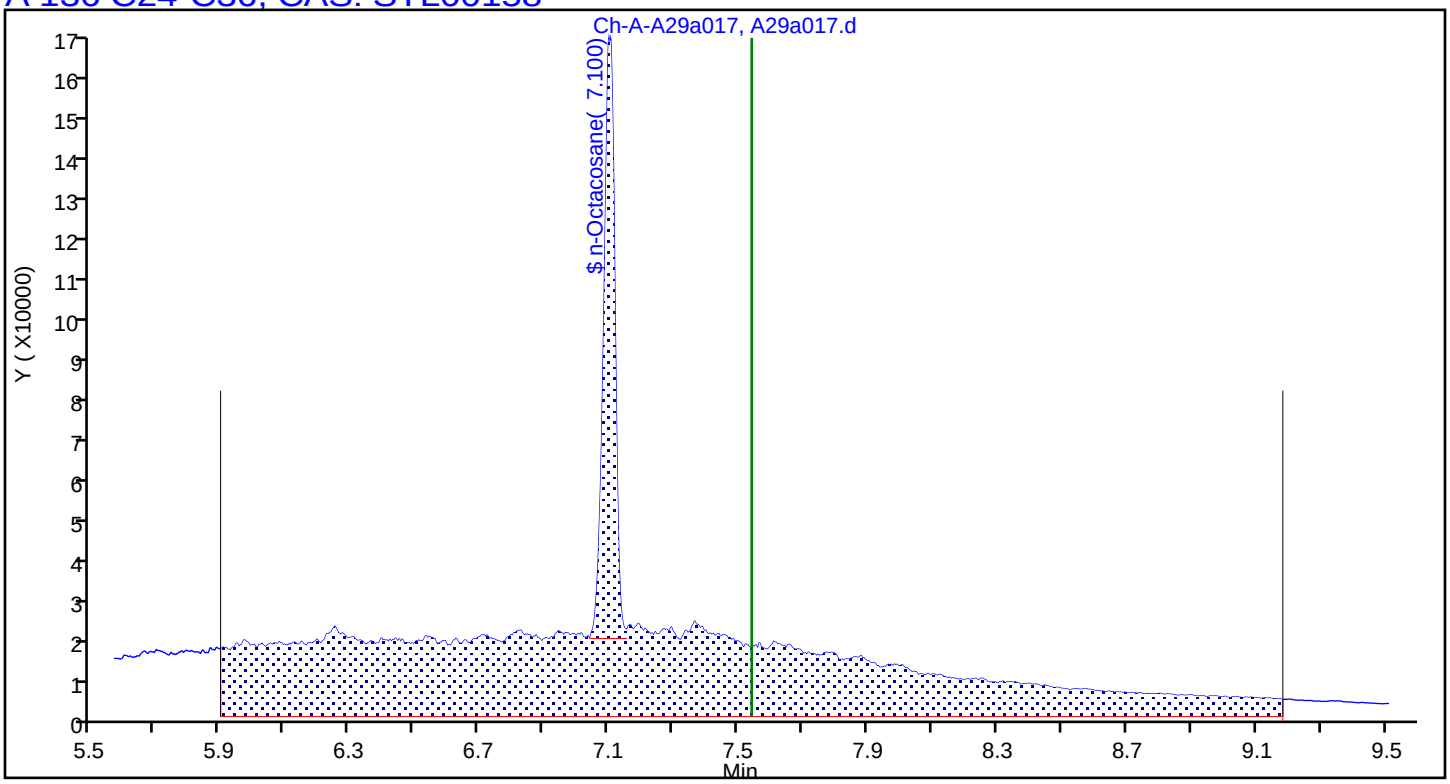
Report Date: 29-Jan-2019 14:09:38 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a017.d

Injection Date:	29-Jan-2019 13:49:12	Instrument ID:	GC69A		
Lims ID:	720-90981-F-22-A	Lab Sample ID:	440-90981-22		
Client ID:	DG-AT12S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a011.d				
Lims ID:	720-90981-F-23-A				
Client ID:	DG-AT12S-3.5-4				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 11:45:01	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 12:07:47	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 12:07:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.575	(1.910-7.240)		9801028	2966.6	
$ 127 n-Octacosane	7.110	7.118	-0.008	249874	76.7	
A 136 C24-C36	7.542	(5.898-9.185)		7642291	2313.2	

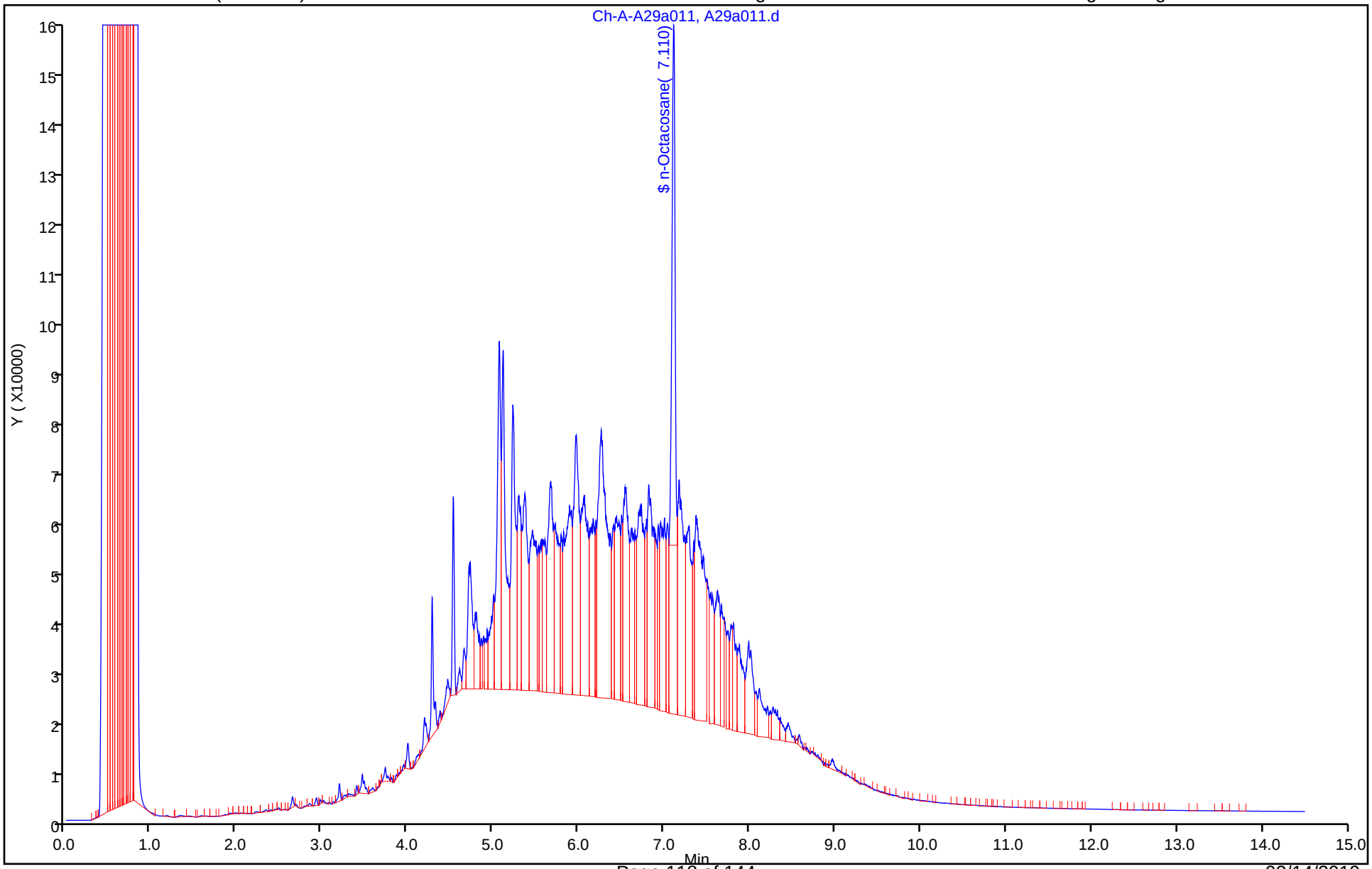
Report Date: 29-Jan-2019 12:07:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a011.d

Injection Date:	29-Jan-2019 11:45:01	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-23-A	Lab Sample ID:	440-90981-23	Worklist Smp#:	11
Client ID:	DG-AT12S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a011.d				
Lims ID:	720-90981-F-23-A				
Client ID:	DG-AT12S-3.5-4				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 11:45:01	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 12:07:47	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 12:07:47

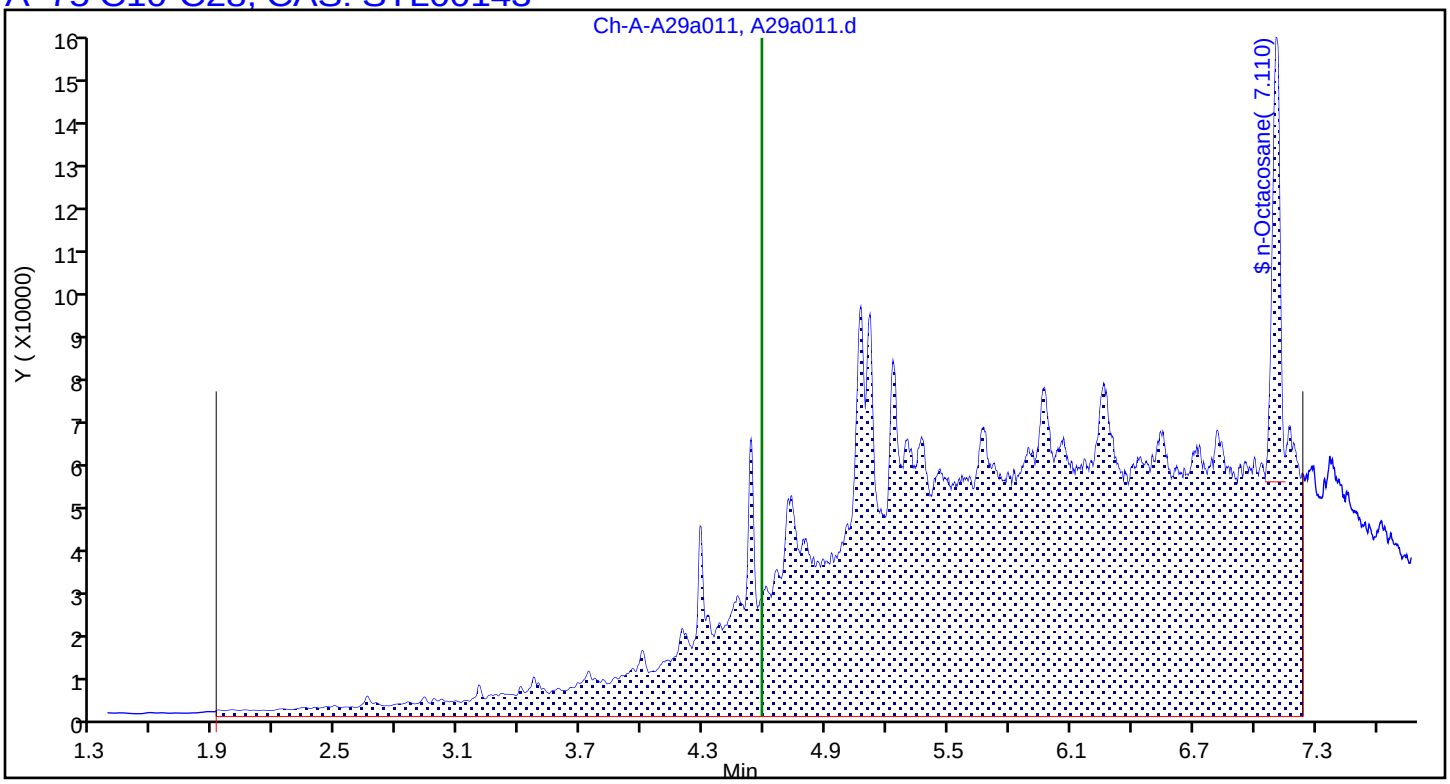
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	76.7	76.69

Report Date: 29-Jan-2019 12:07:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a011.d				
Injection Date:	29-Jan-2019 11:45:01	Instrument ID:	GC69A		
Lims ID:	720-90981-F-23-A	Lab Sample ID:	440-90981-23		
Client ID:	DG-AT12S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

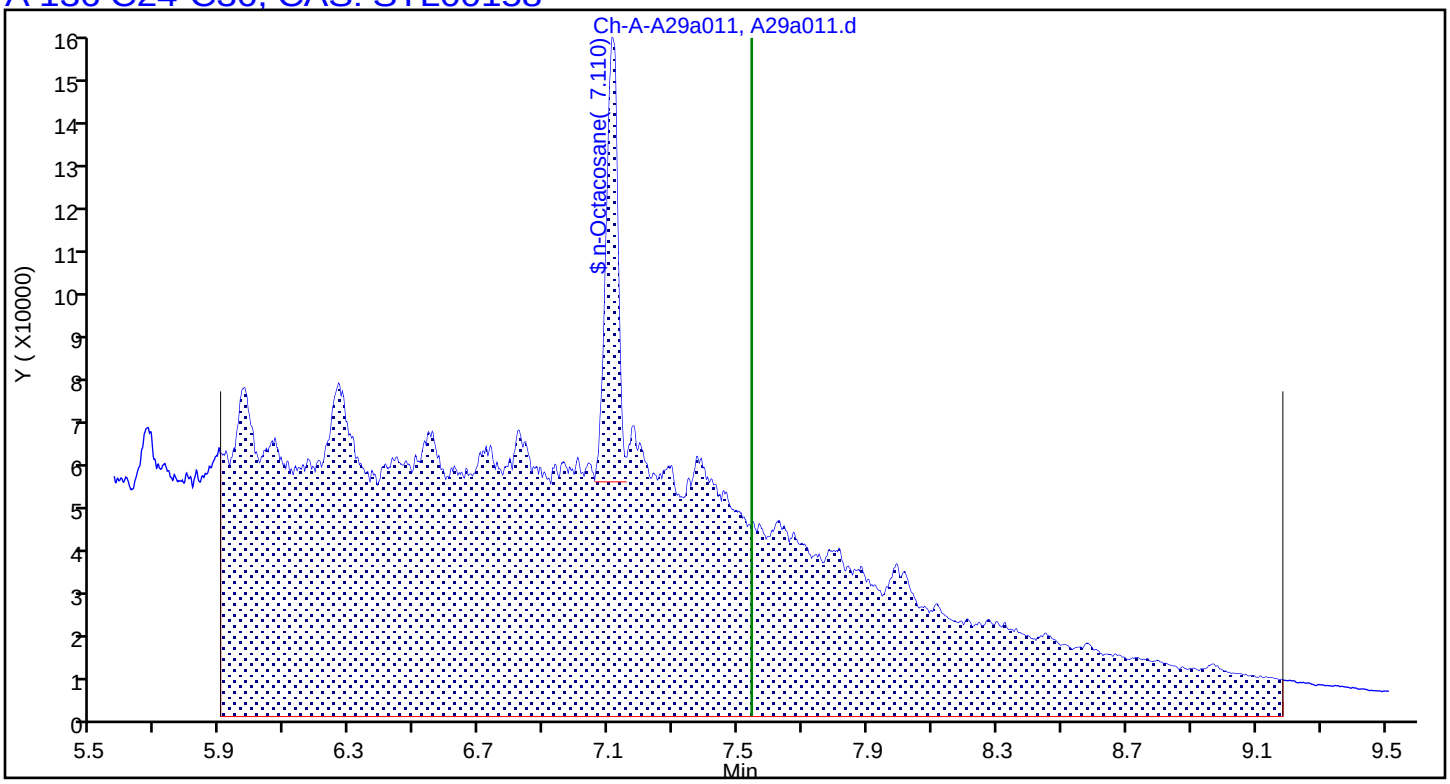


Report Date: 29-Jan-2019 12:07:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a011.d				
Injection Date:	29-Jan-2019 11:45:01	Instrument ID:	GC69A		
Lims ID:	720-90981-F-23-A	Lab Sample ID:	440-90981-23		
Client ID:	DG-AT12S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a018.d				
Lims ID:	720-90981-F-24-A				
Client ID:	DG-AT12S-9.5-10				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 14:09:48	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 14:38:26	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 14:38:26		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.587	(1.898-7.275)		288332	87.3	
$ 127 n-Octacosane	7.103	7.118	-0.015	464414	142.5	
A 136 C24-C36	7.542	(5.898-9.185)		236671	71.6	

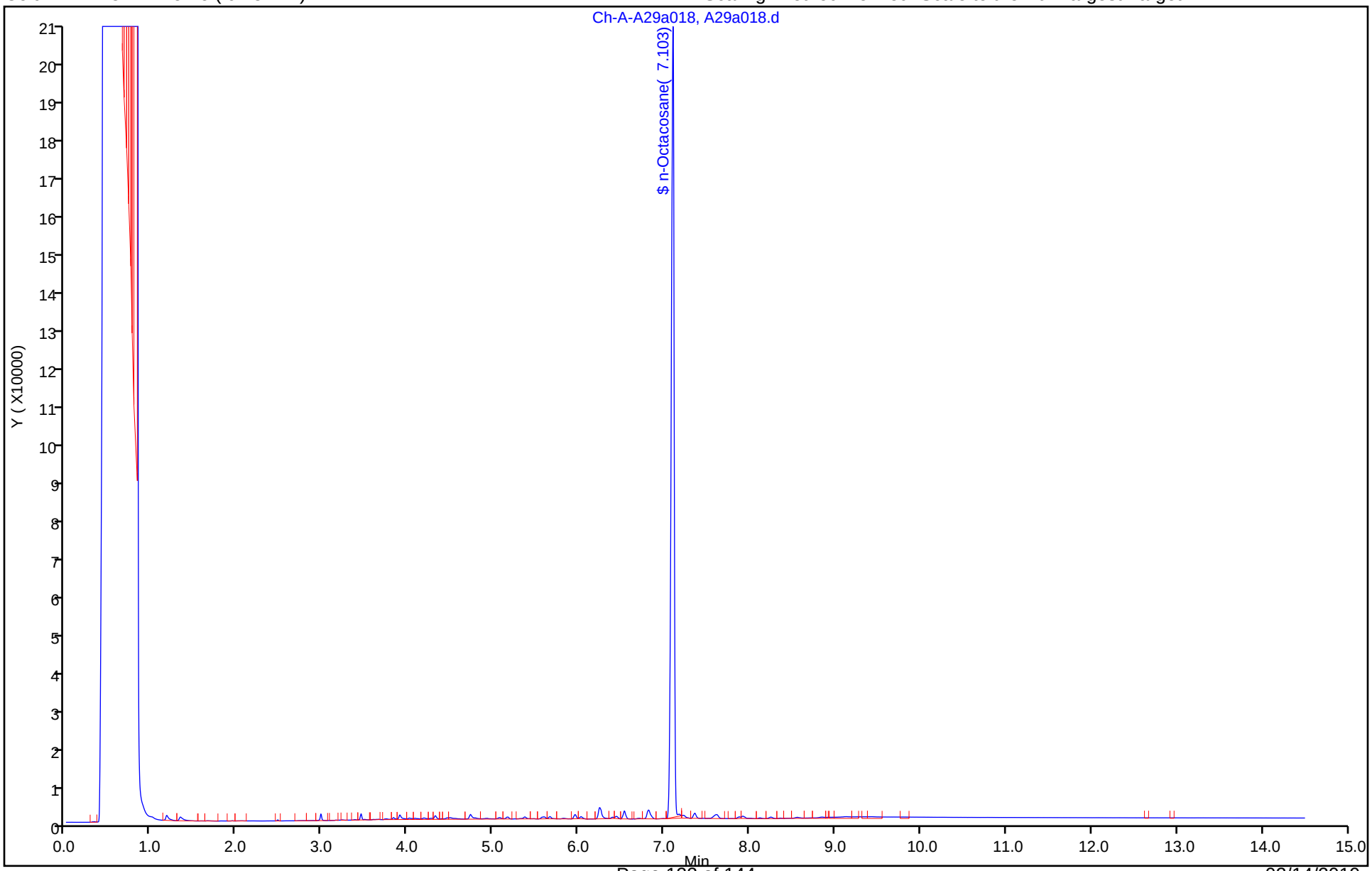
Report Date: 29-Jan-2019 14:38:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a018.d

Injection Date:	29-Jan-2019 14:09:48	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-24-A	Lab Sample ID:	440-90981-24	Worklist Smp#:	18
Client ID:	DG-AT12S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a018.d				
Lims ID:	720-90981-F-24-A				
Client ID:	DG-AT12S-9.5-10				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 14:09:48	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 14:38:26	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 14:38:26

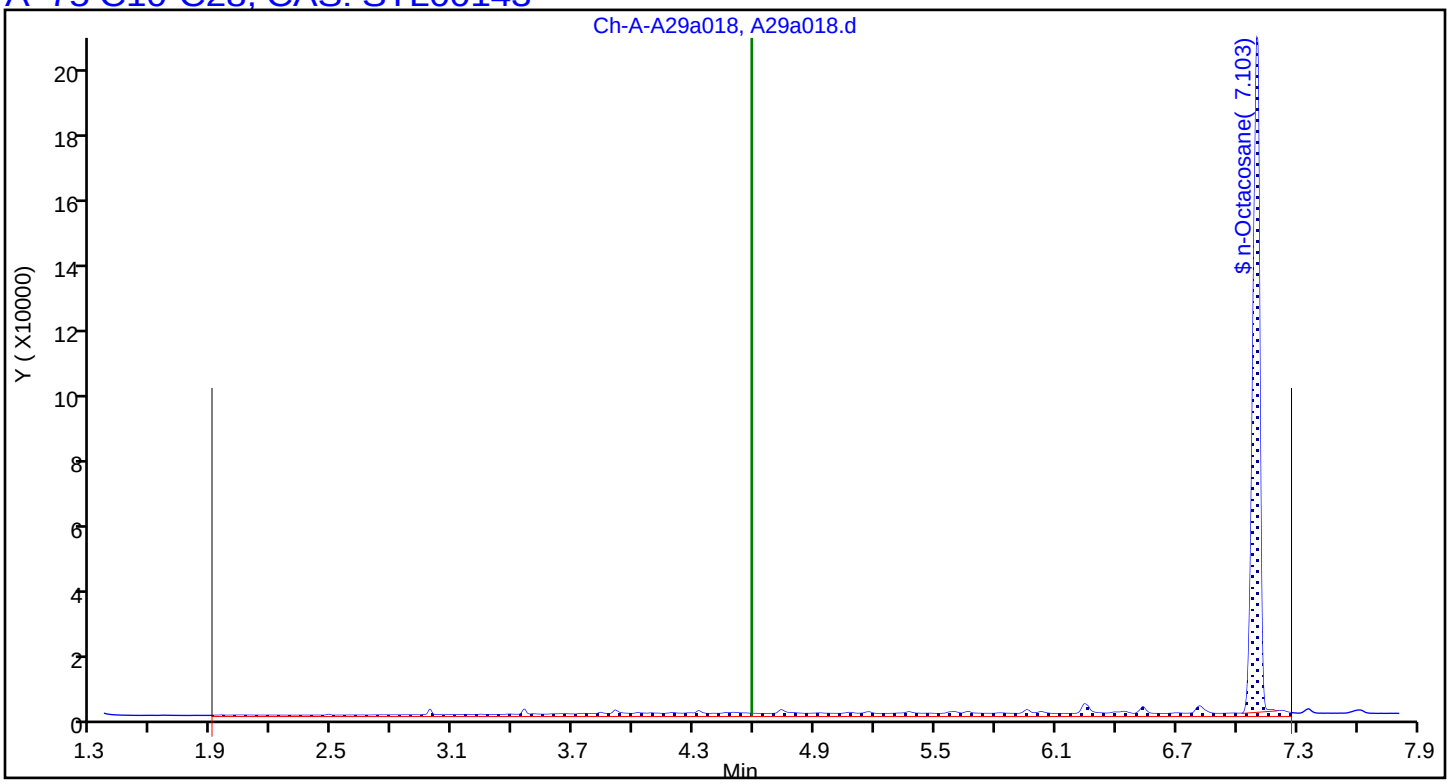
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	142.5	71.27

Report Date: 29-Jan-2019 14:38:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a018.d				
Injection Date:	29-Jan-2019 14:09:48	Instrument ID:	GC69A		
Lims ID:	720-90981-F-24-A	Lab Sample ID:	440-90981-24		
Client ID:	DG-AT12S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

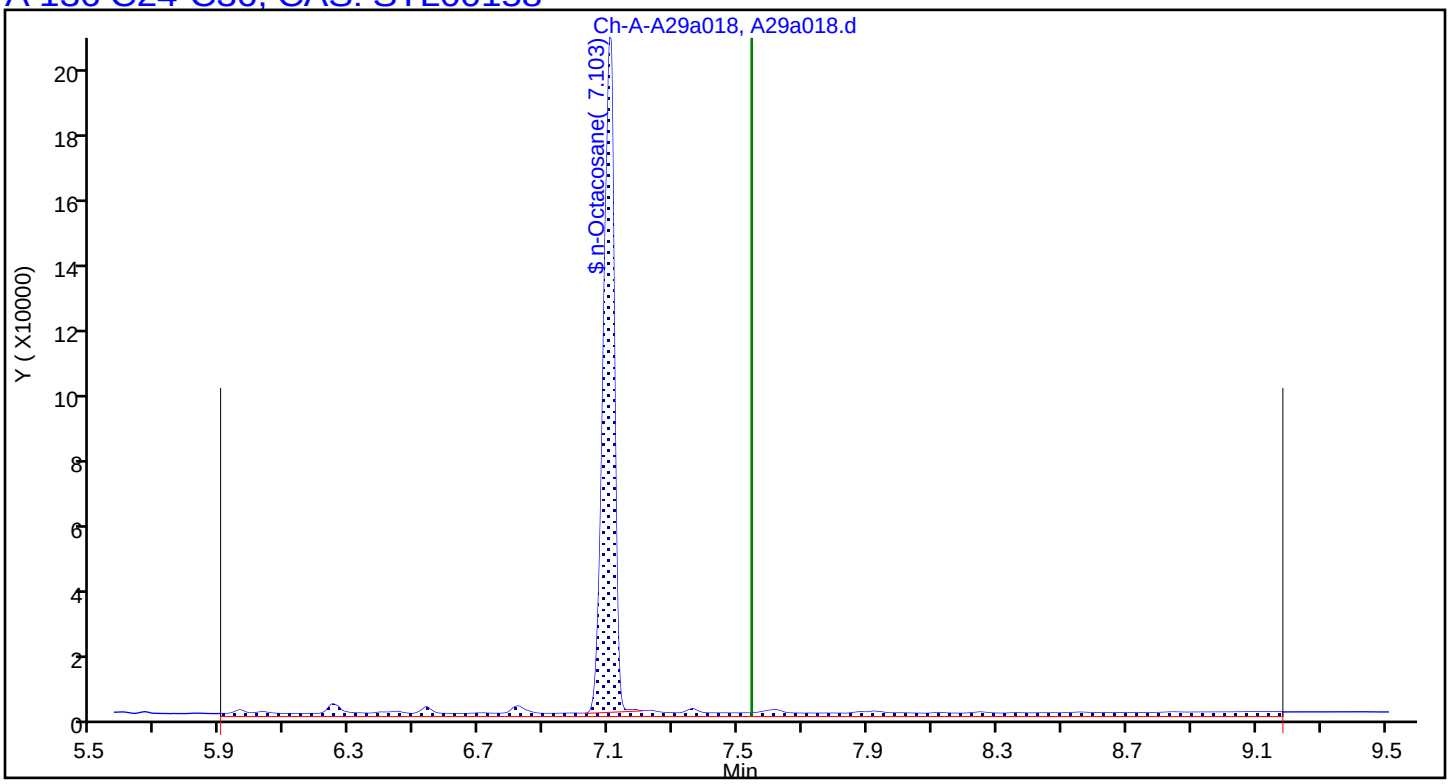


Report Date: 29-Jan-2019 14:38:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a018.d				
Injection Date:	29-Jan-2019 14:09:48	Instrument ID:	GC69A		
Lims ID:	720-90981-F-24-A	Lab Sample ID:	440-90981-24		
Client ID:	DG-AT12S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a019.d				
Lims ID:	720-90981-F-25-A				
Client ID:	DG-AM15S-9.5-10				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 14:30:18	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 14:47:20	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 14:47:20		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.603	(1.930-7.275)		983496	297.7	
$ 127 n-Octacosane	7.100	7.118	-0.018	375642	115.3	
A 136 C24-C36	7.542	(5.898-9.185)		681492	206.3	

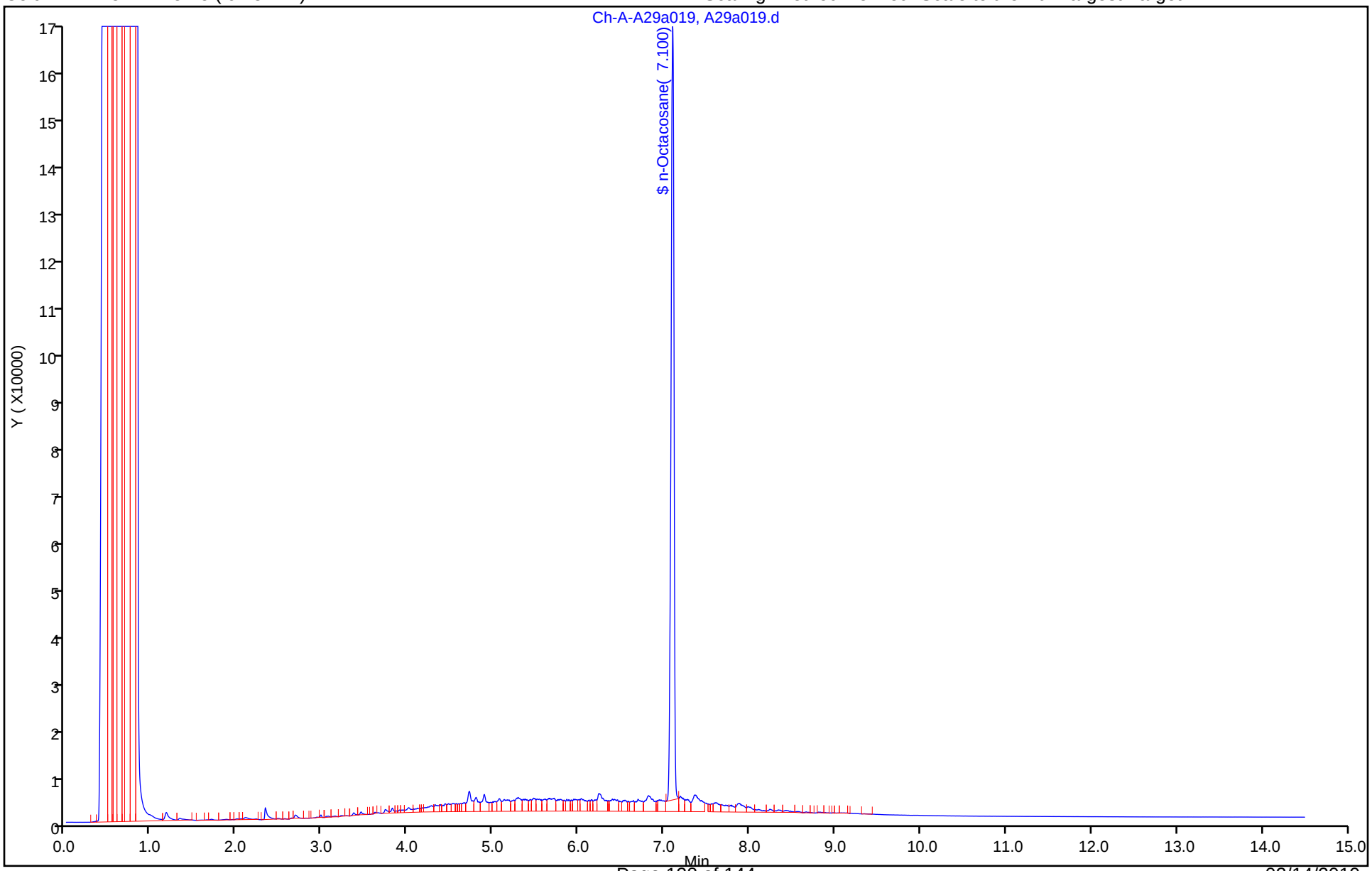
Report Date: 29-Jan-2019 14:47:20 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a019.d

Injection Date:	29-Jan-2019 14:30:18	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-90981-F-25-A	Lab Sample ID:	440-90981-25	Worklist Smp#:	19
Client ID:	DG-AM15S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a019.d				
Lims ID:	720-90981-F-25-A				
Client ID:	DG-AM15S-9.5-10				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 14:30:18	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 14:47:20	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 14:47:20

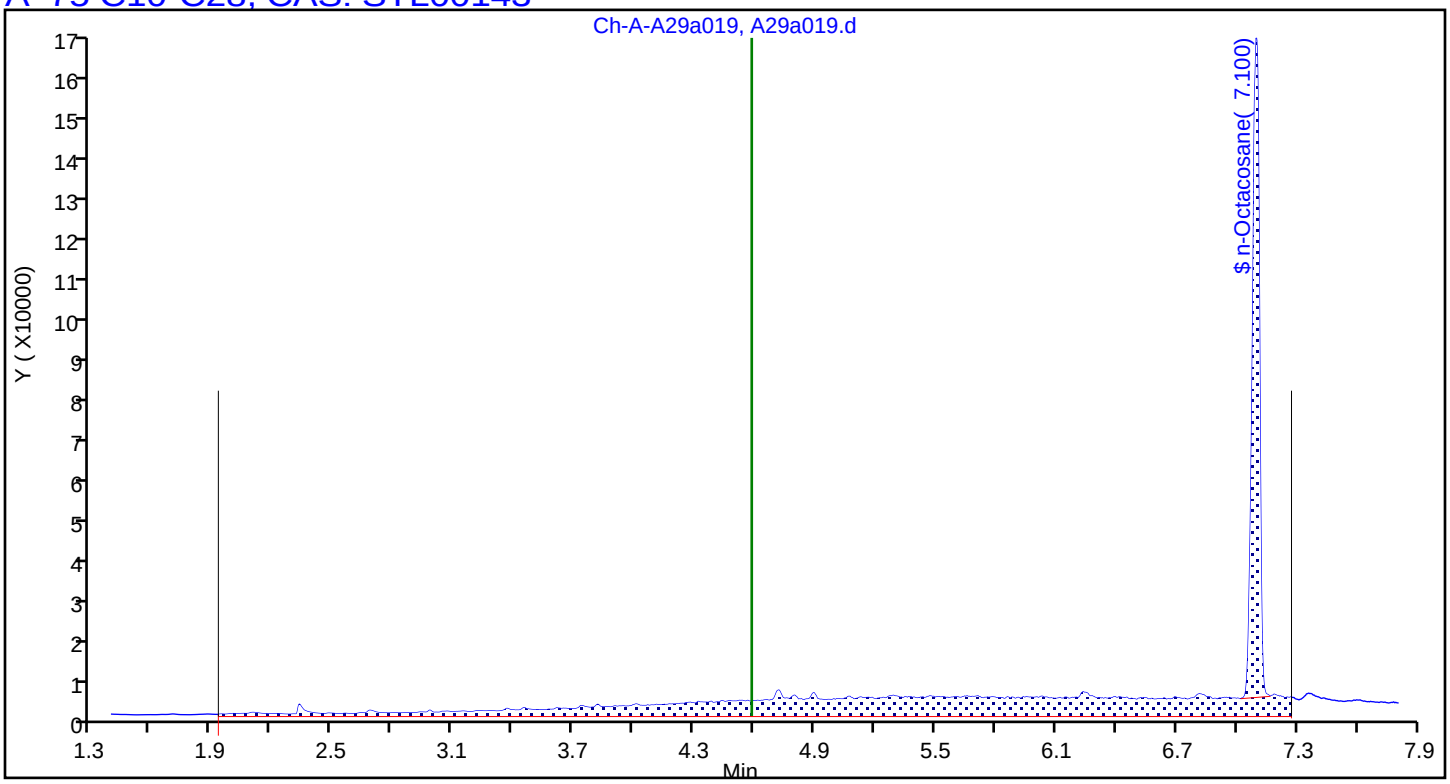
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	115.3	57.65

Report Date: 29-Jan-2019 14:47:20 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a019.d				
Injection Date:	29-Jan-2019 14:30:18	Instrument ID:	GC69A		
Lims ID:	720-90981-F-25-A	Lab Sample ID:	440-90981-25		
Client ID:	DG-AM15S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

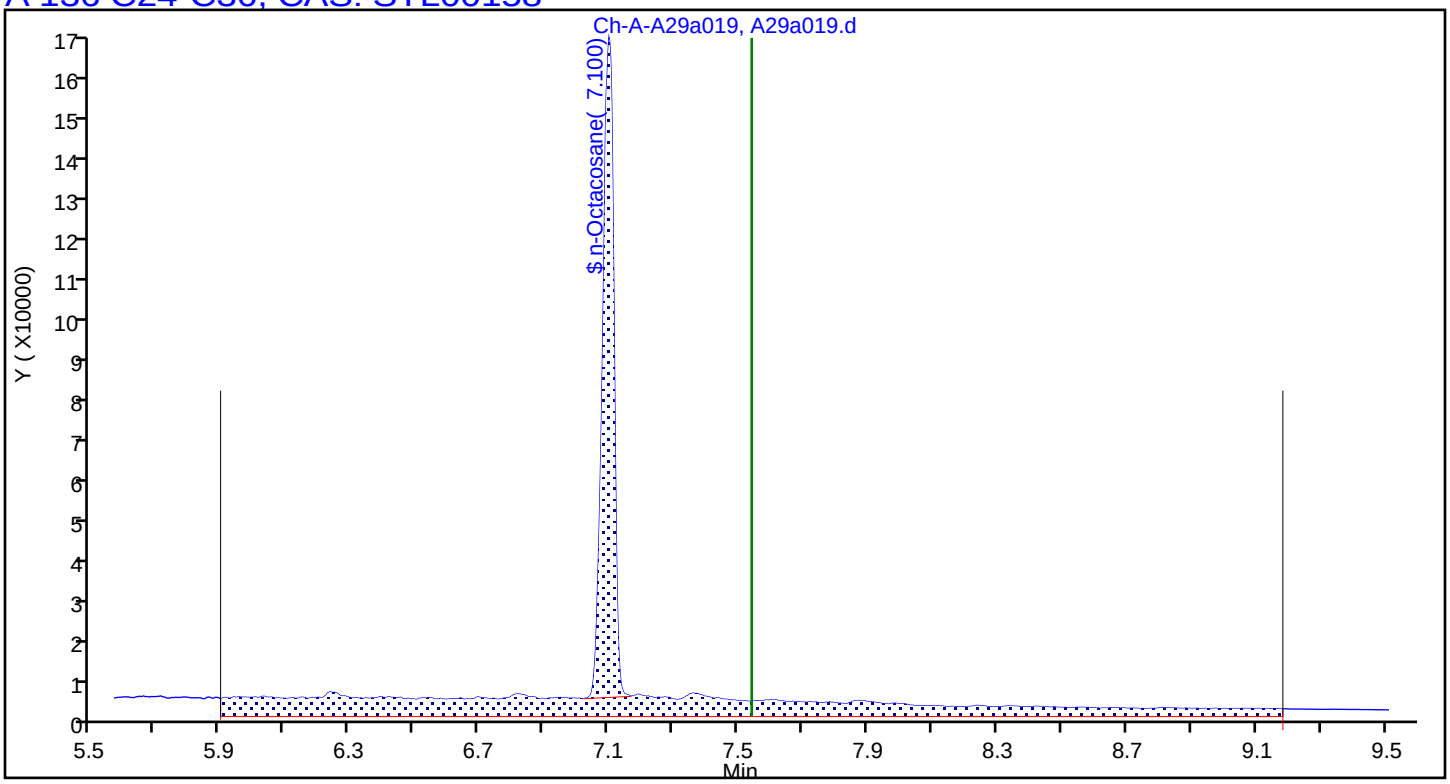


Report Date: 29-Jan-2019 14:47:20 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190129-114820.b\A29a019.d				
Injection Date:	29-Jan-2019 14:30:18	Instrument ID:	GC69A		
Lims ID:	720-90981-F-25-A	Lab Sample ID:	440-90981-25		
Client ID:	DG-AM15S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90981

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

165177

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90981 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1.	DG-AR13S-~~0.5-3~~ 0.5-1	1/23/2019	1300	G	S	7	N		X	X	X	X	X	X	X	
2.	DG-AR13S-3.5-4	1/23/2019	1300	G	S	7	N		X	X	X	X	X	X	X	
3.	DG-AR13S-9.5-10	1/23/2019	1300	G	S	7	N		X	X	X	X	X	X	X	
4.	~~DG-AR13~~ DG-AP13S-0.5-1	1/23/2019	1330	G	S	7	N		X	X	X	X	X	X	X	
5.	DG-AP13S-3.5-4	1/23/2019	1330	G	S	7	N		X	X	X	X	X	X	X	
6.	DG-AP13S-9.5-10	1/23/2019	1330	G	S	7	N		X	X	X	X	X	X	X	
7.	DG-AK15S-0.5-1	1/23/2019	~~1330~~ 1440	G	S	7	N		X	X	X	X	X	X	X	
8.	DG-AK15S-3.5-4	1/23/2019	1440	G	S	7	N		X	X	X	X	X	X	X	
9.	DG-AM15S-0.5-1	1/23/2019	1530	G	S	7	N		X	X	X	X	X	X	X	
10.	DG-AM15S-3.5-4	1/23/2019	1530	G	S	7	N		X	X	X	X	X	X	X	
11.	DUP-113	1/23/2019	—	G	S	7	N		X	X	X	X	X	X	X	
12.	DUP-96	1/23/2019	—	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

-1.9°C, 1.0°C, 5.4°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd	Corr'd	Therm ID No.

Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1/23/19 1615
Relinquished by:	Company: T.I. PLS	Date/Time: 1-23-19 18:45	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/14/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-90981

Chain of Custody Record

TestAmerica
INTERNATIONAL ENVIRONMENTAL TESTING

15501.7

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-AX9S-0.5-1	1/23/2019	0900	G	S	7	N		X	X	X	X	X	X	X	
14	DG-AX9S-3.5-4	1/23/2019	0900	G	S	7	N		X	X	X	X	X	X	X	
15	DG-AX9S-9.5-10	1/23/2019	0900	G	S	7	N		X	X	X	X	X	X	X	
16	DG-AW11S-0.5-1	1/23/2019	1000	G	S	7	N		X	X	X	X	X	X	X	
17	DG-AW11S-3.5-4	1/23/2019	1000	G	S	7	N		X	X	X	X	X	X	X	
18	DG-AW11S-9.5-10	1/23/2019	1000	G	S	7	N	*	X	X	X	X	X	X	X	
19	DG-AW11S-0.5-1	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
20	DG-AW11S-3.5-4	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
21	DG-AW11S-7.5-8	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
22	DG-AT12S-0.5-1	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	
23	DG-AT12S-3.5-4	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	
24	DG-AT12S-9.5-10	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____			
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1/23/19 16:15
Relinquished by:	Company: TA PLS	Date/Time: 1-23-19 18:45	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

OC-4-4-2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-90981

Chain of Custody Record

18603

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client:
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
25	DG-AM15S-9.5-10	1/23/2019	1530	G	S	7	N		X	X	X	X	X	X	X	
26	TB-1232019	1/23/2019	—	G	W	1	N			X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No. | Cooler Temp. (°C) Obs'd _____ Corr'd: _____ Therm ID No. _____

Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1-23-19 1615
Relinquished by:	Company: TA PLS	Date/Time: 1-23-19 1845	Received by	Company	Date/Time
Relinquished by	Company:	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/14/2019

WED
GEOSYNTEC TERRA CORES
720-90981

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
478645742657


720-90981-02 Chain of Custody

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide
at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 23, 2019 4:42:37 PM

Ref:
Dep:

Date: 23Jan19
Wgt: 40.00 LBS

DV: 100.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: PRIORITY OVERNIGHT

TRCK: 4786 4574 2657

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90981

Chain of Custody Record

#188071

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-90981 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1.	DG-AR13S-~~0.5~~ 0.5-1	1/23/2019	1300	G	S	1	N		X	X	X	X	X	X	X	
2.	DG-AR13S-3.5-4	1/23/2019	1300	G	S	1	N		X	X	X	X	X	X	X	
3.	DG-AR13S-9.5-10	1/23/2019	1300	G	S	1	N		X	X	X	X	X	X	X	
4.	~~DG-AR13~~ DG-AP13S-0.5-1	1/23/2019	1320	G	S	1	N		X	X	X	X	X	X	X	
5.	DG-AP13S-3.5-4	1/23/2019	1330	G	S	1	N		X	X	X	X	X	X	X	
6.	DG-AP13S-9.5-10	1/23/2019	1330	G	S	1	N		X	X	X	X	X	X	X	
7.	DG-AK15S-0.5-1	1/23/2019	~~1330~~ 1440	G	S	1	N		X	X	X	X	X	X	X	
8.	DG-AK15S-3.5-4	1/23/2019	1440	G	S	1	N		X	X	X	X	X	X	X	
9.	DG-AM15S-0.5-1	1/23/2019	1530	G	S	1	N		X	X	X	X	X	X	X	
10.	DG-AM15S-3.5-4	1/23/2019	1530	G	S	1	N		X	X	X	X	X	X	X	
11.	DUP-113	1/23/2019	—	G	S	1	N		X	X	X	X	X	X	X	
12.	DUP-96	1/23/2019	—	G	S	1	N		X	X	X	X	X	X	X	

720-90981 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

4.9°C, 1.0°C, 3.4°C

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1-23-19 1615
Relinquished by:	Company: TA PLS	Date/Time: 1-23-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Received by AS

TA PLS 1/24/19 4.9°C

LS/1.3 IR-44

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

TOO-90981

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188071

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client:
bchen@geosyntec.com, mkahnias@geosyntec.com, tamith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
13.	DG-AX9S-0.5-1	1/23/2019	0900	G	S	7	N		X	X	X	X	X	X	X	
14.	DG-AX9S-3.5-4	1/23/2019	0900	G	S	7	N		X	X	X	✓	X	X	X	
15.	DG-AX9S-9.5-10	1/23/2019	0900	G	S	7	N		X	X	X	X	X	X	X	
16.	DG-AW11S-0.5-1	1/23/2019	1000	G	S	7	N		X	X	X	X	X	X	X	
17.	DG-AW11S-3.5-4	1/23/2019	1000	G	S	7	N		X	X	X	X	X	X	X	
18.	DG-AW11S-9.5-10	1/23/2019	1000	G	S	7	N		X	X	X	X	X	X	X	
19.	DG-AW11S-0.5-1	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
20.	DG-AW11S-3.5-4	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
21	DG-AW11S-7.5-8	1/23/2019	1050	G	S	7	N		X	X	X	X	X	X	X	
22	DG-AT12S-0.5-1	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	
23	DG-AT12S-3.5-4	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	
24.	DG-AT12S-9.5-10	1/23/2019	1120	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1/23/19 16:15
Relinquished by:	Company: TA PLS	Date/Time: 1/23/19 1845	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-90981

Chain of Custody Record

188071

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
25 DG-AM15S-9.5-10	1/23/2019	1530	G	S	7	N		X	X	X	X	X	X	X	
26 TB-1232019	1/23/2019	—	G	W	1	N			X						

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/23/2019 1615	Received by:	Company: TA PLS	Date/Time: 1-23-19 1615
Relinquished by:	Company: TA PLS	Date/Time: 1-23-19 1845	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-23-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2657	COC No: 720-40933.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Special Instructions/Note: 4 Encore Cores

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sewage, Groundwater, Solid, Oil/Waste, Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5035B 8260-C4-C12 Volatile Fuel Hydrocarbons
DG-AR13S-0.5-1 (720-90981-1)	1/23/19	13:00 Pacific		Solid	X	X	X	X
DG-AR13S-3.5-4 (720-90981-2)	1/23/19	13:00 Pacific		Solid	X	X	X	X
DG-AR13S-9.5-10 (720-90981-3)	1/23/19	13:00 Pacific		Solid	X	X	X	X
DG-AP13S-0.5-1 (720-90981-4)	1/23/19	13:30 Pacific		Solid	X	X	X	X
DG-AP13S-3.5-4 (720-90981-5)	1/23/19	13:30 Pacific		Solid	X	X	X	X
DG-AP13S-9.5-10 (720-90981-6)	1/23/19	13:30 Pacific		Solid	X	X	X	X
DG-AK15S-0.5-1 (720-90981-7)	1/23/19	14:40 Pacific		Solid	X	X	X	X
DG-AK15S-3.5-4 (720-90981-8)	1/23/19	14:40 Pacific		Solid	X	X	X	X
DG-AM15S-0.5-1 (720-90981-9)	1/23/19	15:30 Pacific		Solid	X	X	X	X

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed		***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment: FED-EX D/O		
Relinquished by:	Date/Time: 1/23/19 16:42	Company TA-PLS	Received by:	Date/Time: 1/24/19 9:45	Company TA-PLS		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: ☐ Yes ☒ No	Custody Seal No.: TRK #4786 4574 2657		Cooler Temperature(s) °C and Other Remarks: 1.8/1.3 16.9Y				

1/23/19 4786 4 8 1/23/19

Encores or Terracores Frozen 1/24/19 Time: 1030 Initials: AS

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40933.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Special Instructions/Note:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8082/8545 Standard 8082 PCB list	8081A(MOD) 8081-(MOD) Standard DDX	8015B_DRO/ORO_LL/8015B_EPH_Hold and (MOD) Organics	Moisture Percent Moisture	6010B/6020A 6010-CAM-17, Hg-Mercury	Z_331AR_Prep_7471A_Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/8015B 8260-(MOD) VOCs	8260B/CA_LUFTMS/8015B 8260-C4-C12 Volatile Fuel Hydrocarbons
DG-AM15S-3.5-4 (720-90981-10)	1/23/19	15:30 Pacific		Solid							X	X		
DUP-113 (720-90981-11)	1/23/19	Pacific		Solid							X	X		
DUP-96 (720-90981-12)	1/23/19	Pacific		Solid							X	X		
DG-AX9S-0.5-1 (720-90981-13)	1/23/19	09:00 Pacific		Solid							X	X		
DG-AX9S-3.5-4 (720-90981-14)	1/23/19	09:00 Pacific		Solid							X	X		
DG-AX9S-9.5-10 (720-90981-15)	1/23/19	09:00 Pacific		Solid							X	X		
DG-AU11S-0.5-1 (720-90981-16)	1/23/19	10:00 Pacific		Solid							X	X		
DG-AU11S-3.5-4 (720-90981-17)	1/23/19	10:00 Pacific		Solid							X	X		
DG-AU11S-9.5-10 (720-90981-18)	1/23/19	10:00 Pacific		Solid							X	X		

4) - TERRA CORES

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX O/O

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/23/19 1642	TA-PLS		1/24/19 9:45	TA IRV
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.	1.8 / 1.3 IR-94

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40933.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, Air)	8082/3546 Standard 8082 PCB list	8270SIM_DROD3546 (MOD) 8081-(MOD) Standard List	8015B_DROD3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture Percent Moisture	6010B/7000B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons			
DG-AW11S-0.5-1 (720-90981-19)	1/23/19	10:50 Pacific		Solid	X	X	X	X	X	X	X	X					
DG-AW11S-3.5-4 (720-90981-20)	1/23/19	10:50 Pacific		Solid	X	X	X	X	X	X	X	X					
DG-AW11S-7.5-8 (720-90981-21)	1/23/19	10:50 Pacific		Solid	X	X	X	X	X	X	X	X					
DG-AT12S-0.5-1 (720-90981-22)	1/23/19	11:20 Pacific		Solid	X	X	X	X	X	X	X	X					
DG-AT12S-3.5-4 (720-90981-23)	1/23/19	11:20 Pacific		Solid	X	X	X	X	X	X	X	X					
DG-AT12S-9.5-10 (720-90981-24)	1/23/19	11:20 Pacific		Solid	X	X	X	X	X	X	X	X					
DG-AM15S-9.5-10 (720-90981-25)	1/23/19	15:30 Pacific		Solid	X	X	X	X	X	X	X	X					
TB-1232019 (720-90981-26)	1/23/19	Pacific		Water									X	X			

1/23/19

Special Instructions/Note:

4 TERRA CORES

check for 2 phases 40ml HCL VIAL

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/D

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/23/19 1642	TA-PLS		1/24/19 9:15	TA-IRV
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2727	COC No: 720-40933.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B/CA_LUFTMS/5035A_F_FW_T 8260(MOD) VOCs + GRO Volatile Fuel Hydrocarbons	8260B/CA_LUFTMS/5035A_F_FW_T 8260-CA-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-CA-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:															
DG-AR13S-0.5-1 (720-90981-1)	1/23/19	13:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	2 JARS
DG-AR13S-3.5-4 (720-90981-2)	1/23/19	13:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AR13S-9.5-10 (720-90981-3)	1/23/19	13:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AP13S-0.5-1 (720-90981-4)	1/23/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AP13S-3.5-4 (720-90981-5)	1/23/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AP13S-9.5-10 (720-90981-6)	1/23/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AK15S-0.5-1 (720-90981-7)	1/23/19	14:40 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AK15S-3.5-4 (720-90981-8)	1/23/19	14:40 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AM15S-0.5-1 (720-90981-9)	1/23/19	15:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	

1/23/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Joan Mullen	Date/Time: 1-24-19 1340	Company: PTS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time: 1/25/19 10:00	Company: TA-IEV

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6/3.0 21 2.5 IR93

Ver. 09/20/2016

02/14/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2727	COC No: 720-40933.2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
		Preservation Code:																
DG-AM15S-3.5-4 (720-90981-10)	1/23/19	15:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	2 & JARS
DUP-113 (720-90981-11)	1/23/19	Pacific		Solid			X	X	X	X	X	X	X	X			6	1/23/19
DUP-96 (720-90981-12)	1/23/19	Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AX9S-0.5-1 (720-90981-13)	1/23/19	09:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AX9S-3 5-4 (720-90981-14)	1/23/19	09:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AX9S-9.5-10 (720-90981-15)	1/23/19	09:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AU11S-0.5-1 (720-90981-16)	1/23/19	10:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AU11S-3.5-4 (720-90981-17)	1/23/19	10:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AU11S-9 5-10 (720-90981-18)	1/23/19	10:00 Pacific		Solid			X	X	X	X	X	X	X	X			6	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	1-24-19 1340	BLS			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/25/19	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/25/19 10:00	Company: TA-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 26/3.0 2.1/2.5 IR93

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2727	COC No: 720-40933.3
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-90981-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/25/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + CRQ	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOC	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:															
DG-AW11S-0.5-1 (720-90981-19)	1/23/19	10:50 Pacific		Solid			X	X	X	X	X	X	X	X			6	(2) TARS
DG-AW11S-3.5-4 (720-90981-20)	1/23/19	10:50 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AW11S-7.5-8 (720-90981-21)	1/23/19	10:50 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AT12S-0.5-1 (720-90981-22)	1/23/19	11:20 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AT12S-3.5-4 (720-90981-23)	1/23/19	11:20 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AT12S-9 5-10 (720-90981-24)	1/23/19	11:20 Pacific		Solid			X	X	X	X	X	X	X	X			6	
DG-AM15S-9.5-10 (720-90981-25)	1/23/19	15:30 Pacific		Solid			X	X	X	X	X	X	X	X			6	
TB-1232019 (720-90981-26)	1/23/19	Pacific		Water									X	X			1	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time: 1-24-19/340	PS			
Relinquished by.	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1/25/19 10:00	Company: TA-IRV

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6/3.0 2.1/2.5 IR93

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91011-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Laura Turpen
Project Manager I
2/25/2019 12:41 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/25/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
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The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Method 8015B - DRO Sample Data 3

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TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a030.d				
Lims ID:	720-91011-G-1-A				
Client ID:	DG-AW11W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 21:54:40	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:51:12	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:51:12		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		1788504	493.8	
$ 127 n-Octacosane	7.032	7.052	-0.020	292059	79.4	
A 135 C24-C36	7.478	(5.830-9.127)		829079	228.9	

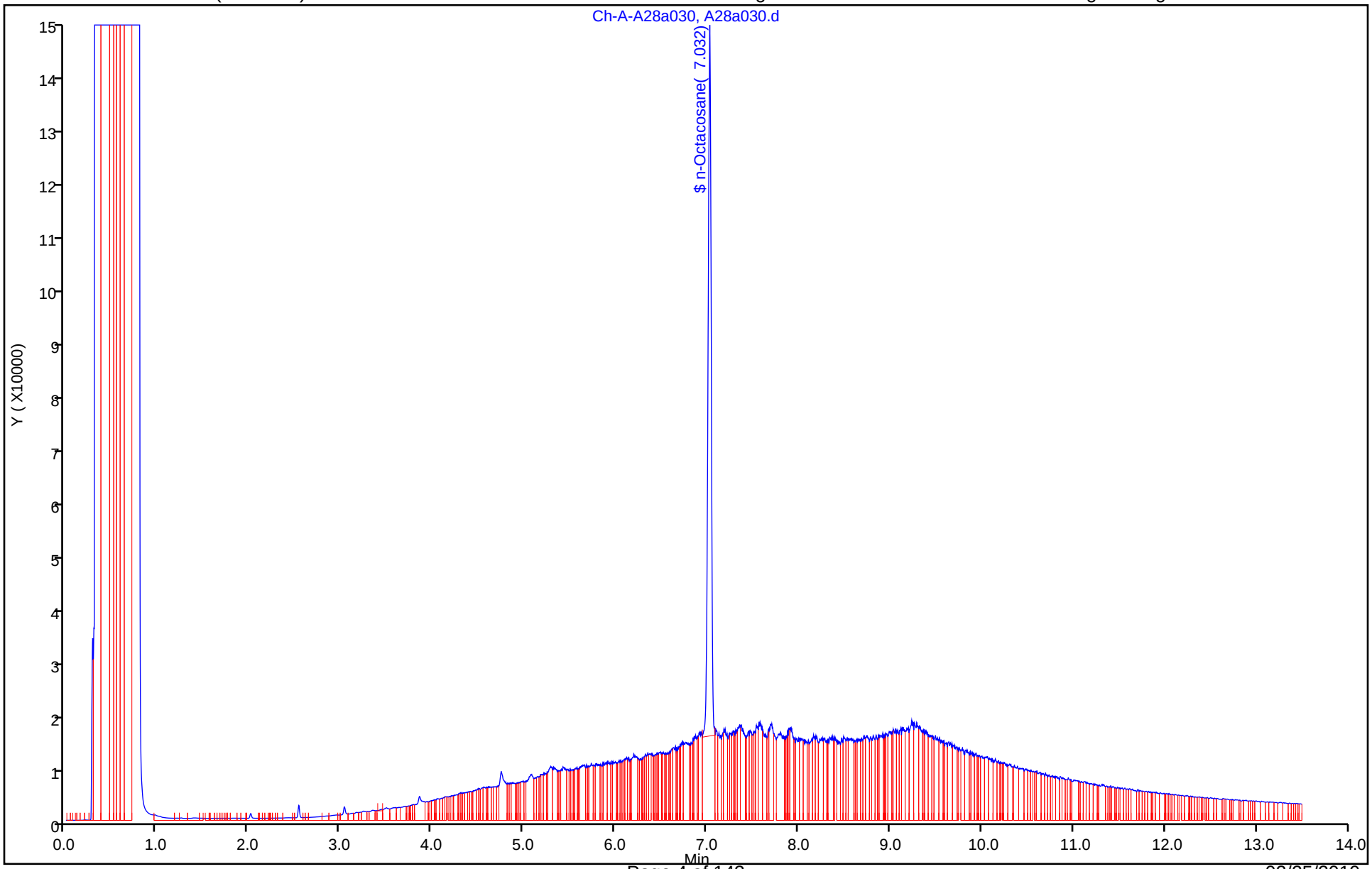
Report Date: 29-Jan-2019 08:51:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a030.d

Injection Date:	28-Jan-2019 21:54:40	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-G-1-A	Lab Sample ID:	440-91011-1	Worklist Smp#:	30
Client ID:	DG-AW11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a030.d				
Lims ID:	720-91011-G-1-A				
Client ID:	DG-AW11W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 21:54:40	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:51:12	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:51:12

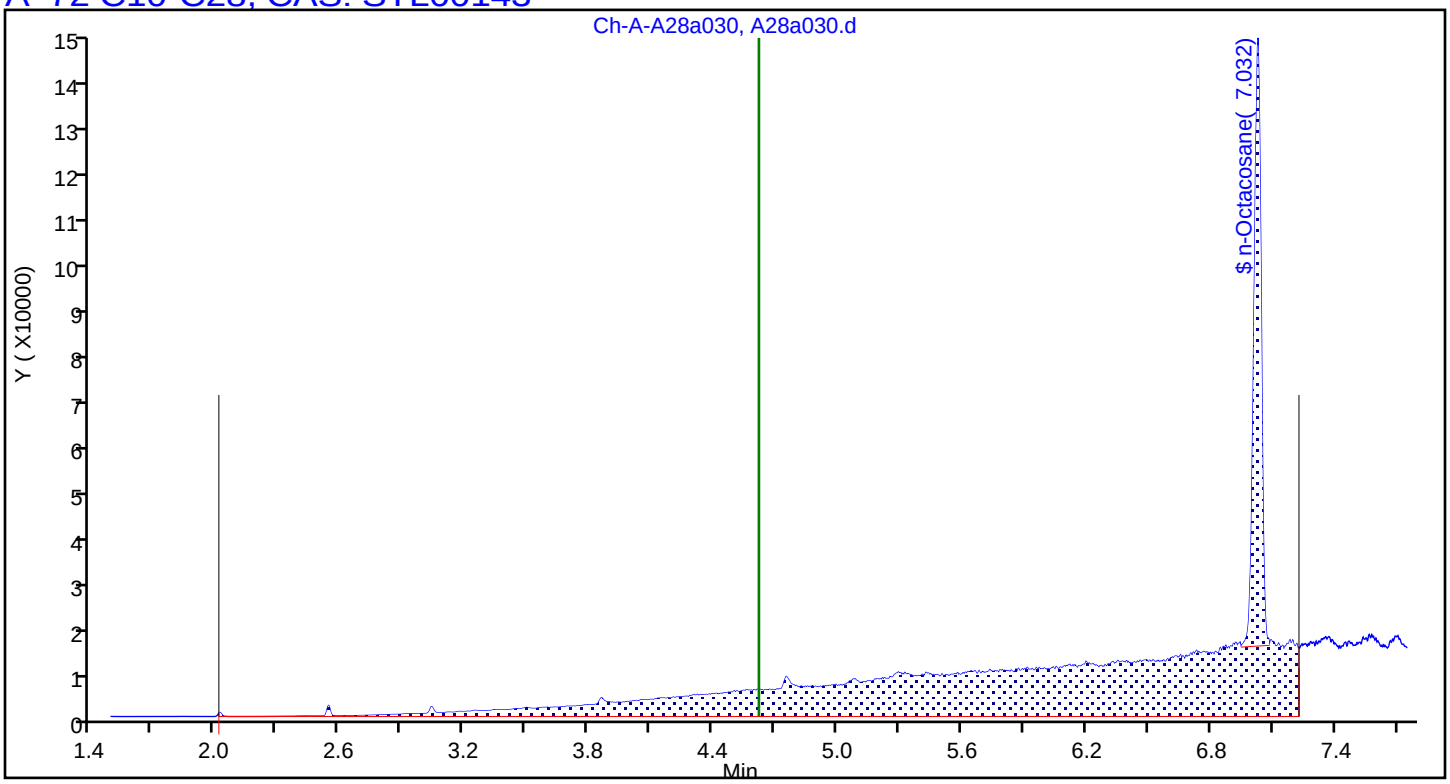
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	79.4	79.39
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:51:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a030.d				
Injection Date:	28-Jan-2019 21:54:40	Instrument ID:	GC70A		
Lims ID:	720-91011-G-1-A	Lab Sample ID:	440-91011-1		
Client ID:	DG-AW11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

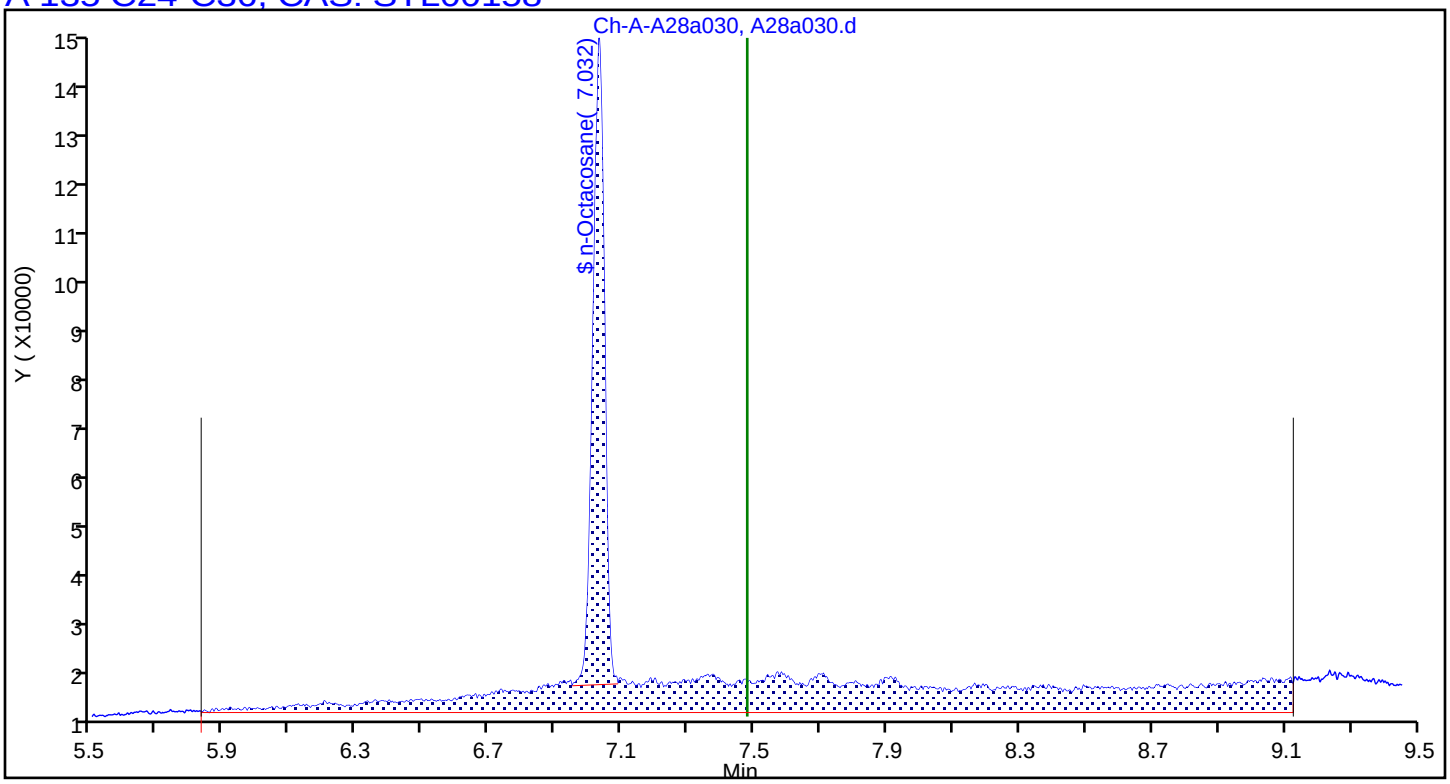


Report Date: 29-Jan-2019 08:51:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a030.d				
Injection Date:	28-Jan-2019 21:54:40	Instrument ID:	GC70A		
Lims ID:	720-91011-G-1-A	Lab Sample ID:	440-91011-1		
Client ID:	DG-AW11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a037.d				
Lims ID:	720-91011-D-2-A				
Client ID:	DG-AM15W				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 00:24:54	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:53:32	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:53:32		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		374036	103.3	
$ 127 n-Octacosane	7.033	7.052	-0.019	473863	128.8	
A 135 C24-C36	7.478	(5.830-9.127)		65395	18.1	

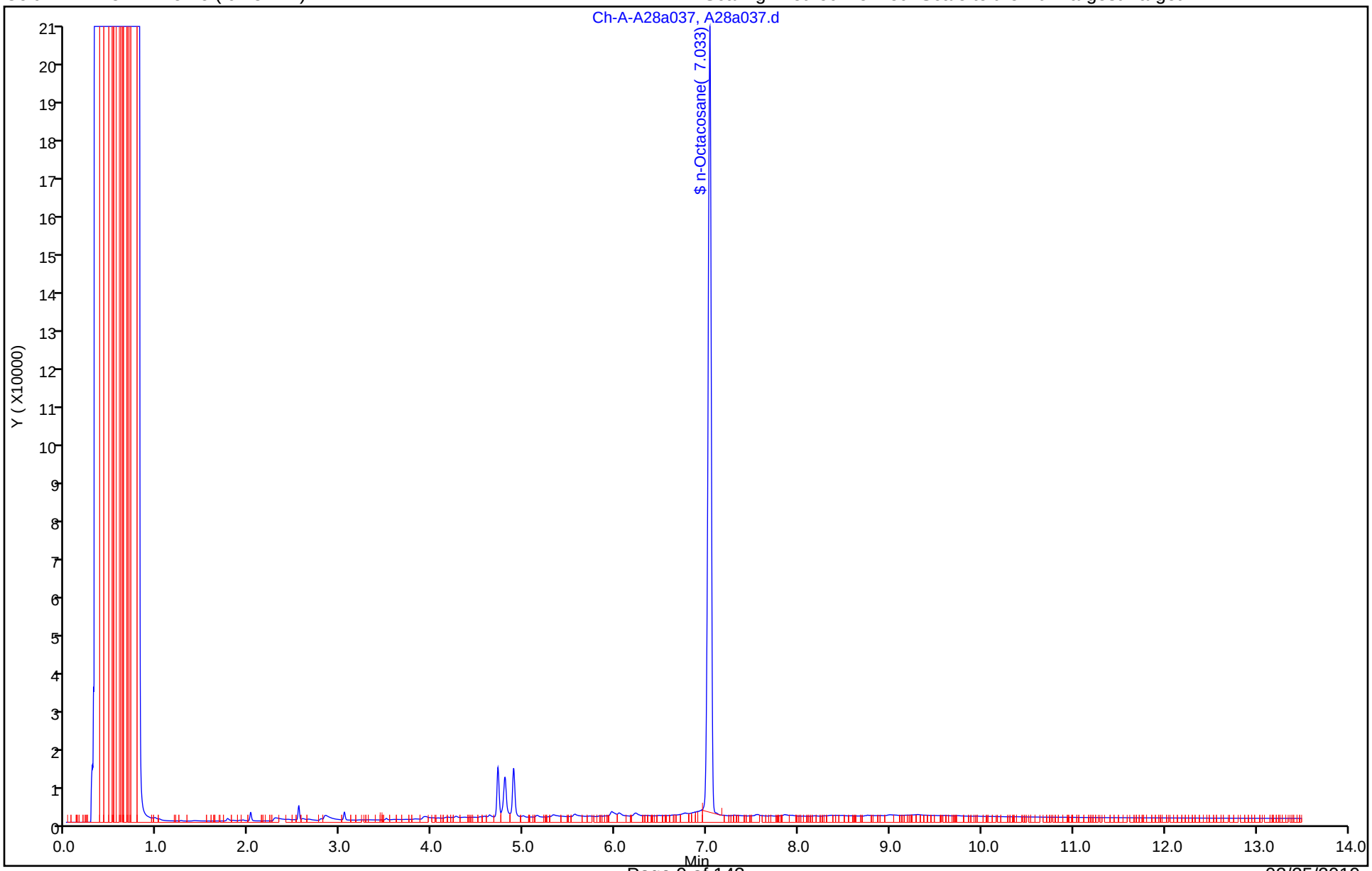
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a037.d

Injection Date:	29-Jan-2019 00:24:54	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-D-2-A	Lab Sample ID:	440-91011-2	Worklist Smp#:	37
Client ID:	DG-AM15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a037.d				
Lims ID:	720-91011-D-2-A				
Client ID:	DG-AM15W				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 00:24:54	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:53:32	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:53:32

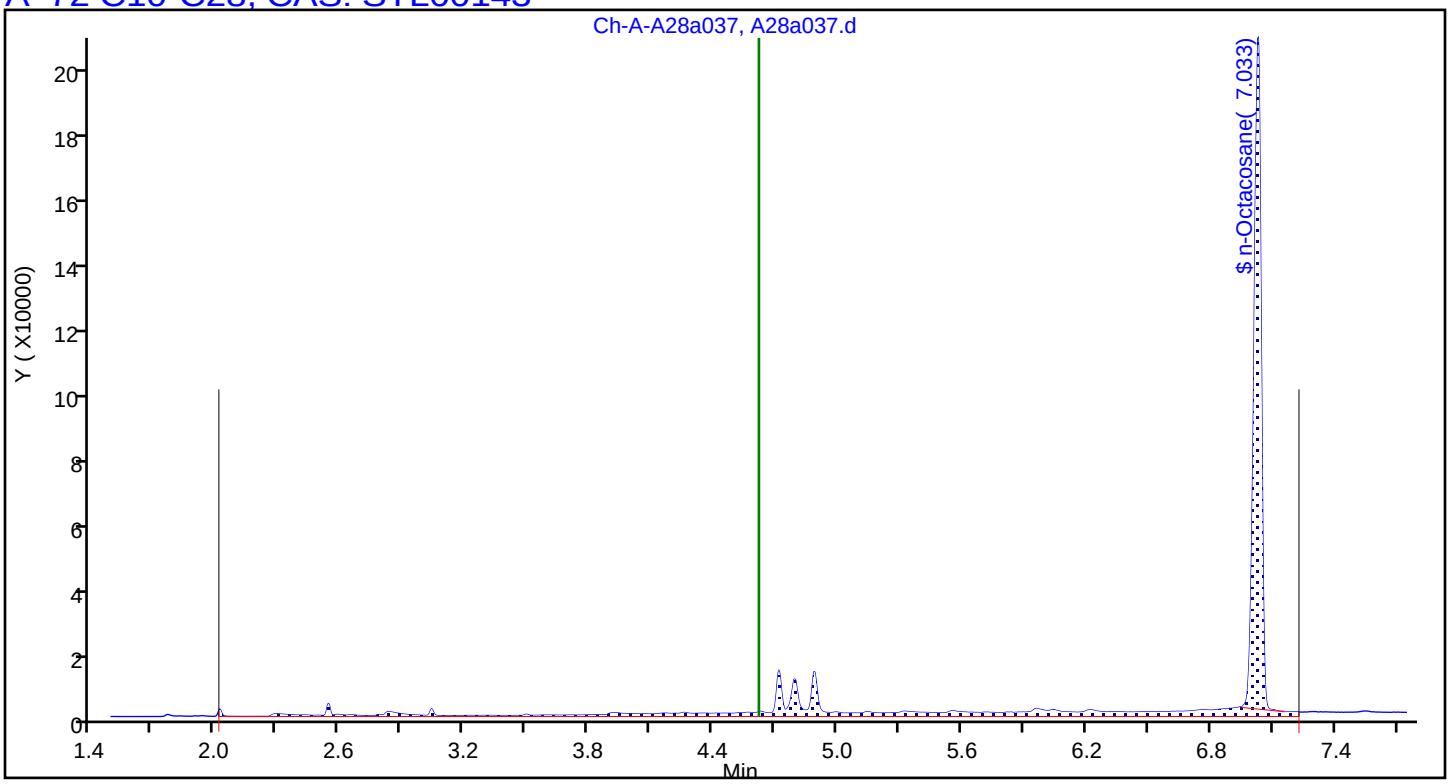
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	128.8	64.40
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:53:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a037.d				
Injection Date:	29-Jan-2019 00:24:54	Instrument ID:	GC70A		
Lims ID:	720-91011-D-2-A	Lab Sample ID:	440-91011-2		
Client ID:	DG-AM15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

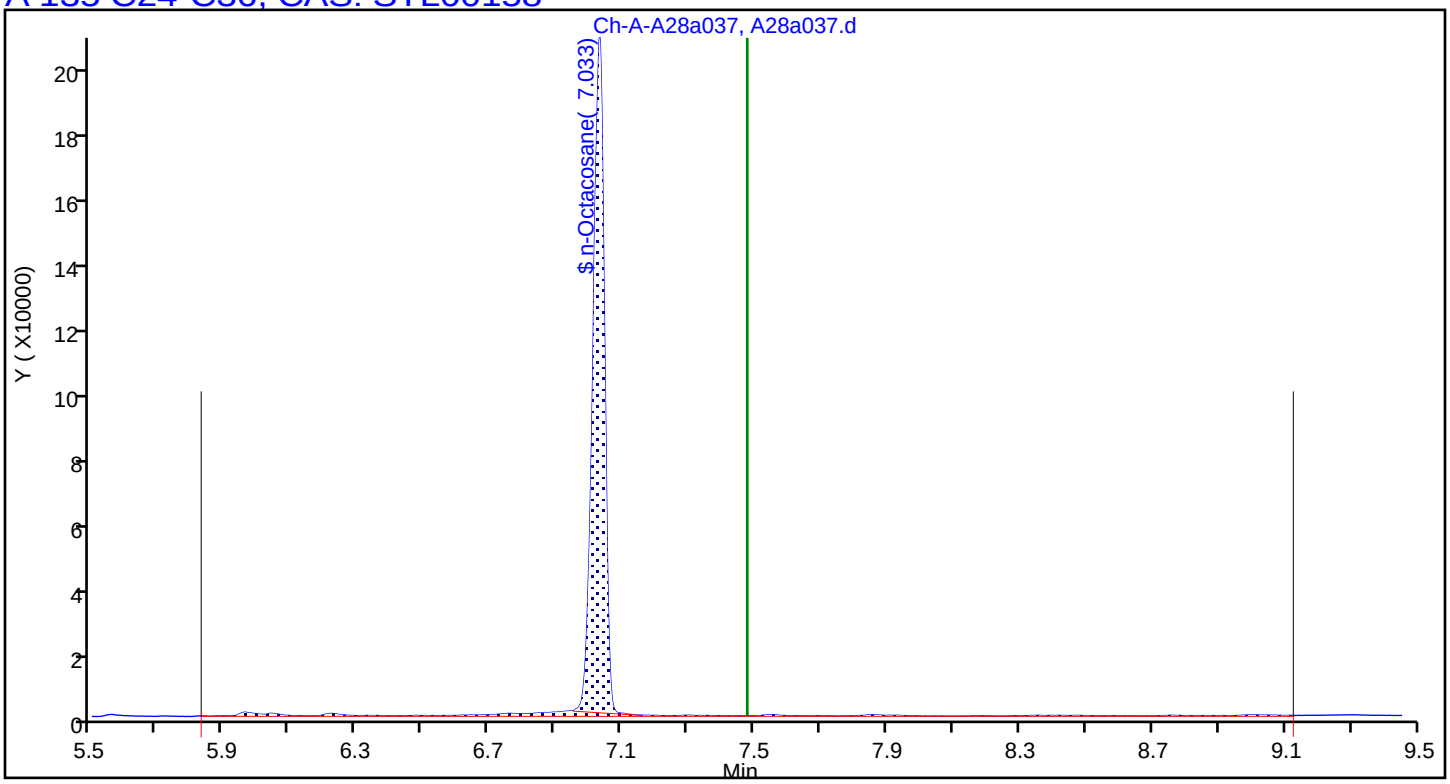


Report Date: 29-Jan-2019 08:53:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a037.d				
Injection Date:	29-Jan-2019 00:24:54	Instrument ID:	GC70A		
Lims ID:	720-91011-D-2-A	Lab Sample ID:	440-91011-2		
Client ID:	DG-AM15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a035.d				
Lims ID:	720-91011-D-3-A				
Client ID:	DG-AK15W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 23:42:18	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:52:58	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:52:58		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		22586774	6235.8	
$ 127 n-Octacosane	7.032	7.052	-0.020	507325	137.9	
A 135 C24-C36	7.478	(5.830-9.127)		2107611	581.9	

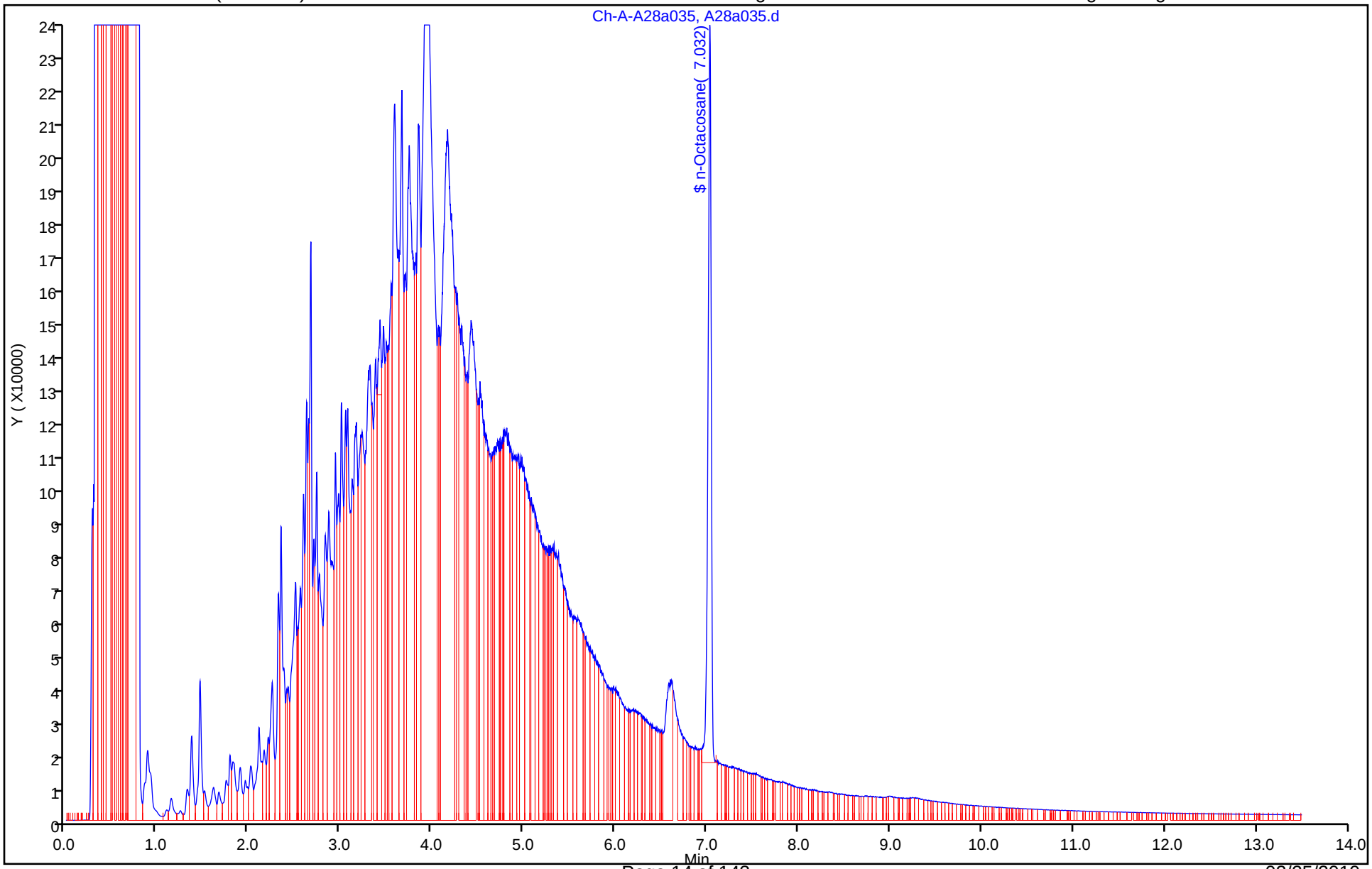
Report Date: 29-Jan-2019 08:52:59 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a035.d

Injection Date:	28-Jan-2019 23:42:18	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-D-3-A	Lab Sample ID:	440-91011-3	Worklist Smp#:	35
Client ID:	DG-AK15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a035.d				
Lims ID:	720-91011-D-3-A				
Client ID:	DG-AK15W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 23:42:18	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:52:58	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:52:58

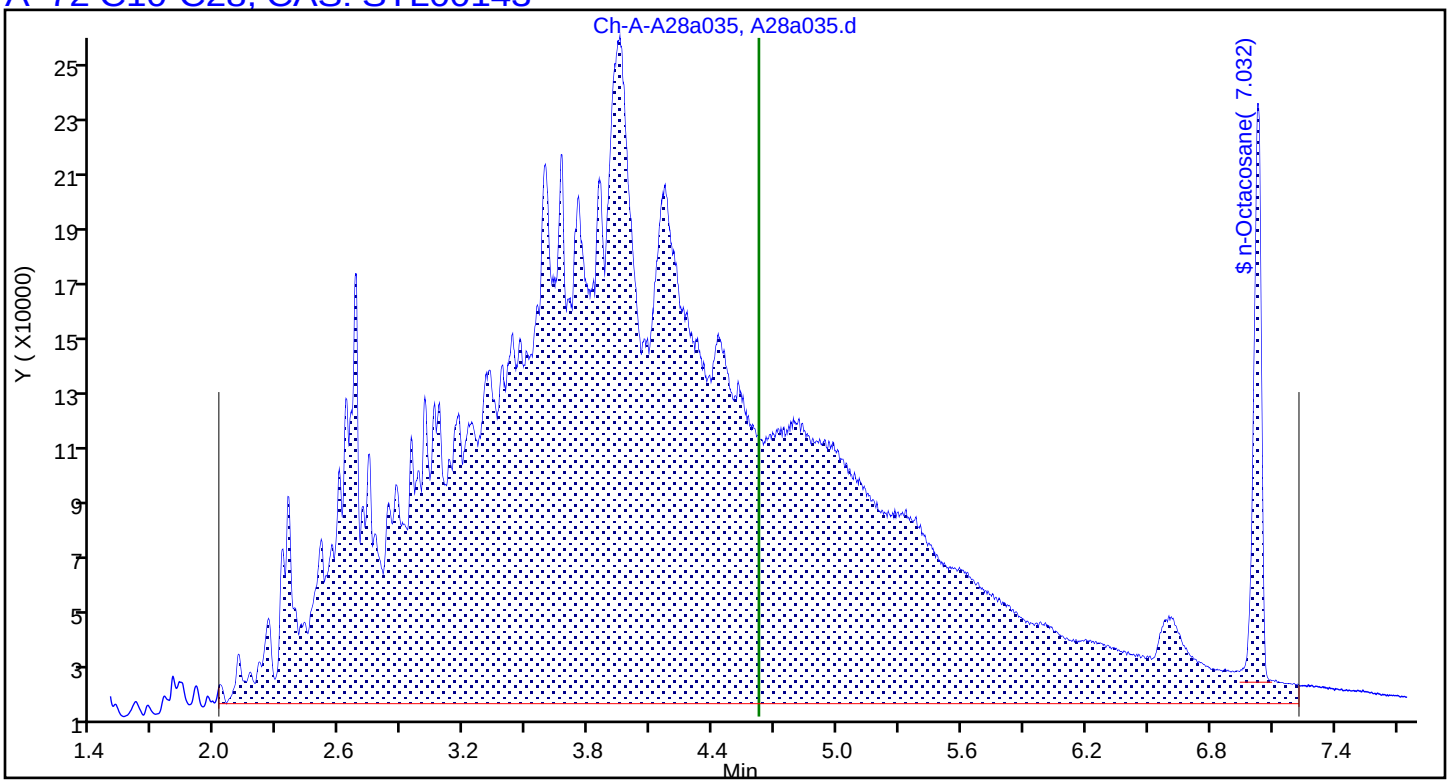
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	137.9	68.95
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:52:59 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a035.d				
Injection Date:	28-Jan-2019 23:42:18	Instrument ID:	GC70A		
Lims ID:	720-91011-D-3-A	Lab Sample ID:	440-91011-3		
Client ID:	DG-AK15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

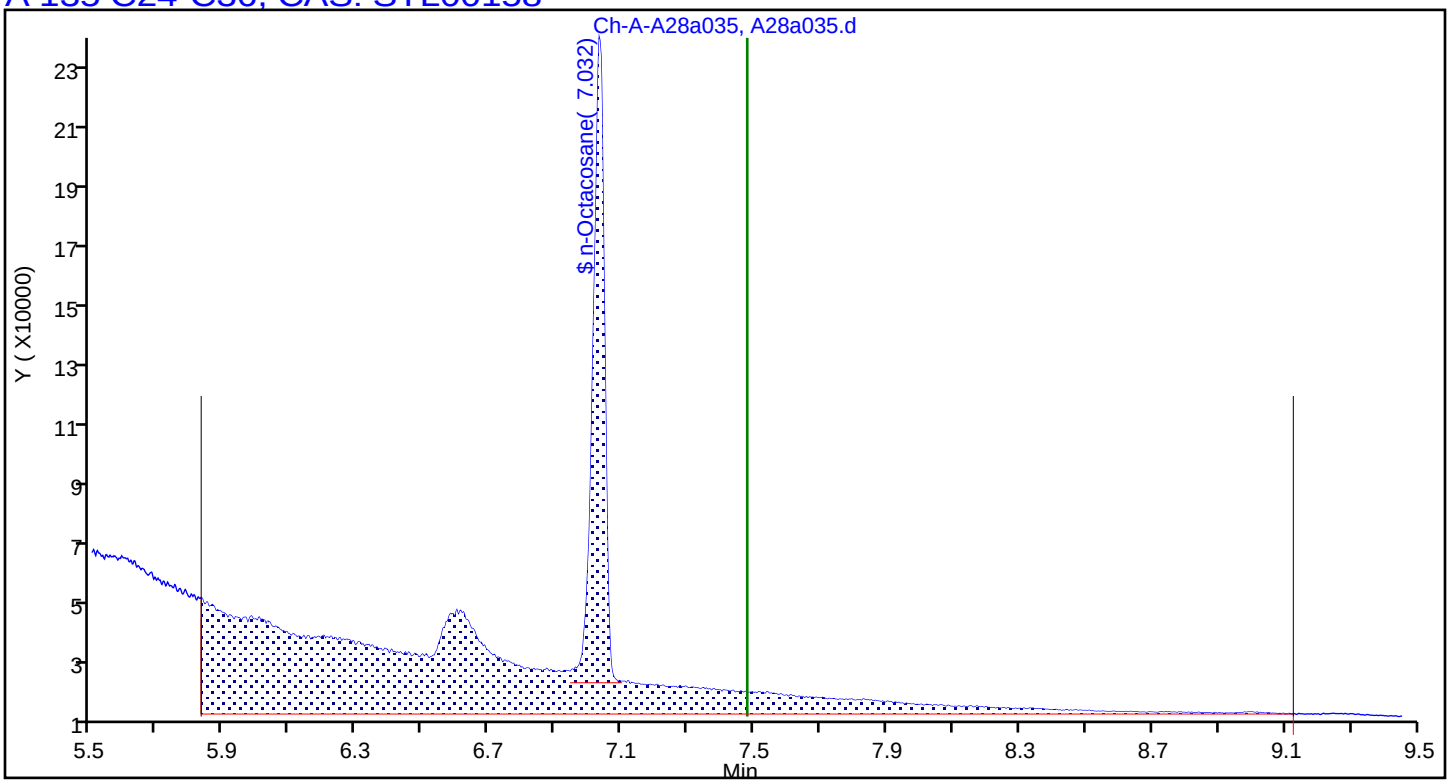


Report Date: 29-Jan-2019 08:52:59 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a035.d				
Injection Date:	28-Jan-2019 23:42:18	Instrument ID:	GC70A		
Lims ID:	720-91011-D-3-A	Lab Sample ID:	440-91011-3		
Client ID:	DG-AK15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a032.d				
Lims ID:	720-91011-G-4-A				
Client ID:	DG-AG15W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 22:37:43	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:52:10	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:52:10		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		3096643	854.9	
$ 127 n-Octacosane	7.028	7.052	-0.024	252576	68.7	
A 135 C24-C36	7.478	(5.830-9.127)		195608	54.0	

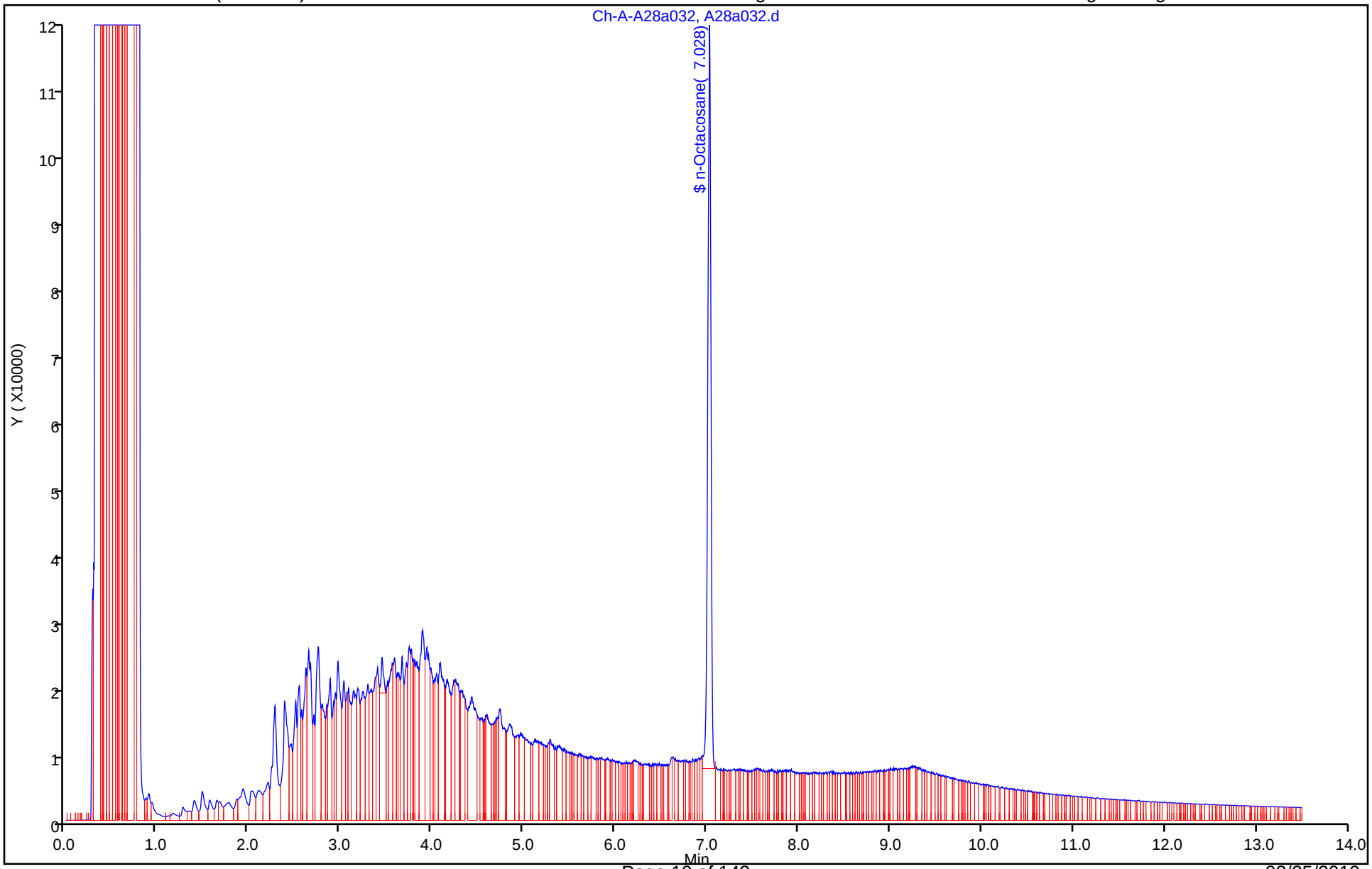
Report Date: 29-Jan-2019 08:52:11 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a032.d

Injection Date:	28-Jan-2019 22:37:43	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-G-4-A	Lab Sample ID:	440-91011-4	Worklist Smp#:	32
Client ID:	DG-AG15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a032.d				
Lims ID:	720-91011-G-4-A				
Client ID:	DG-AG15W				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 22:37:43	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:52:10	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:52:10

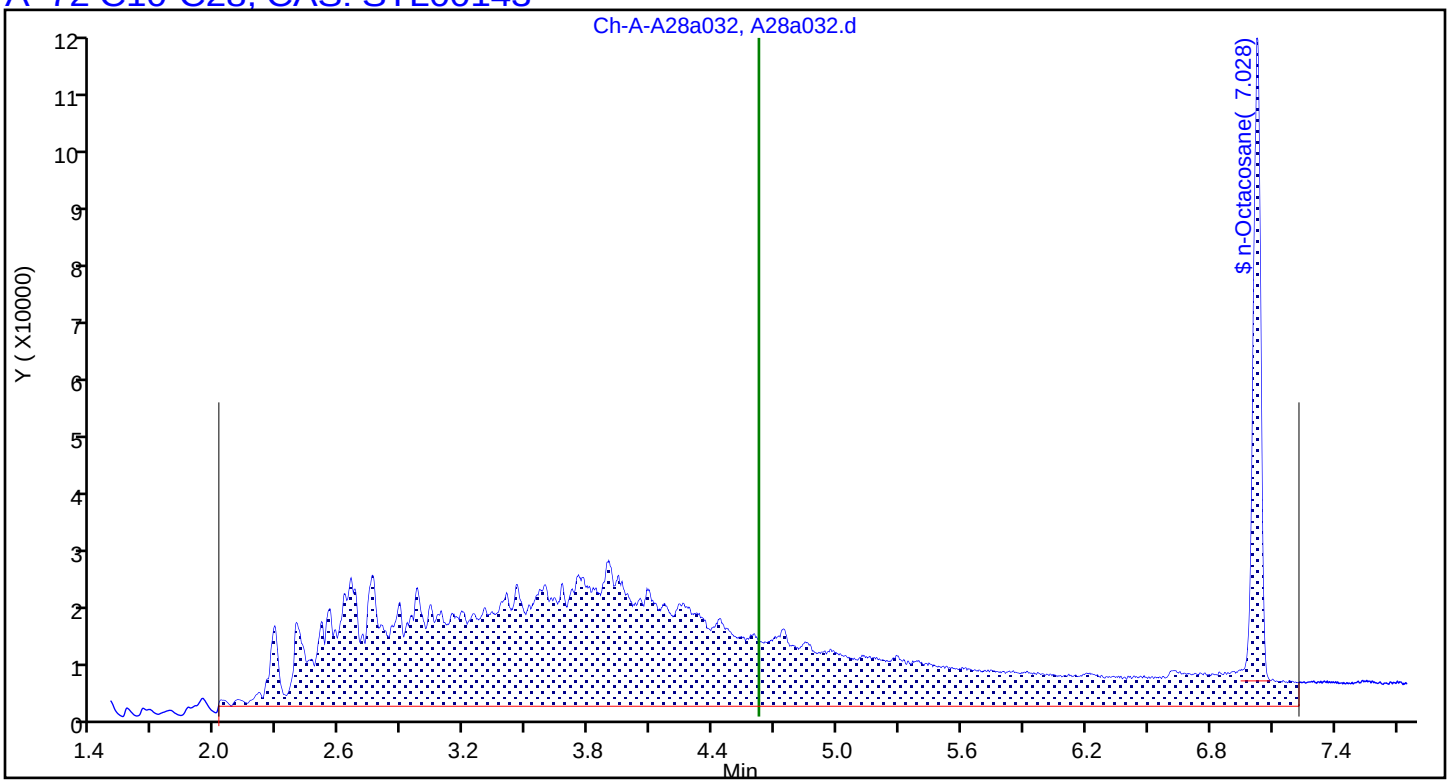
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	68.7	68.66
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:52:11 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a032.d				
Injection Date:	28-Jan-2019 22:37:43	Instrument ID:	GC70A		
Lims ID:	720-91011-G-4-A	Lab Sample ID:	440-91011-4		
Client ID:	DG-AG15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

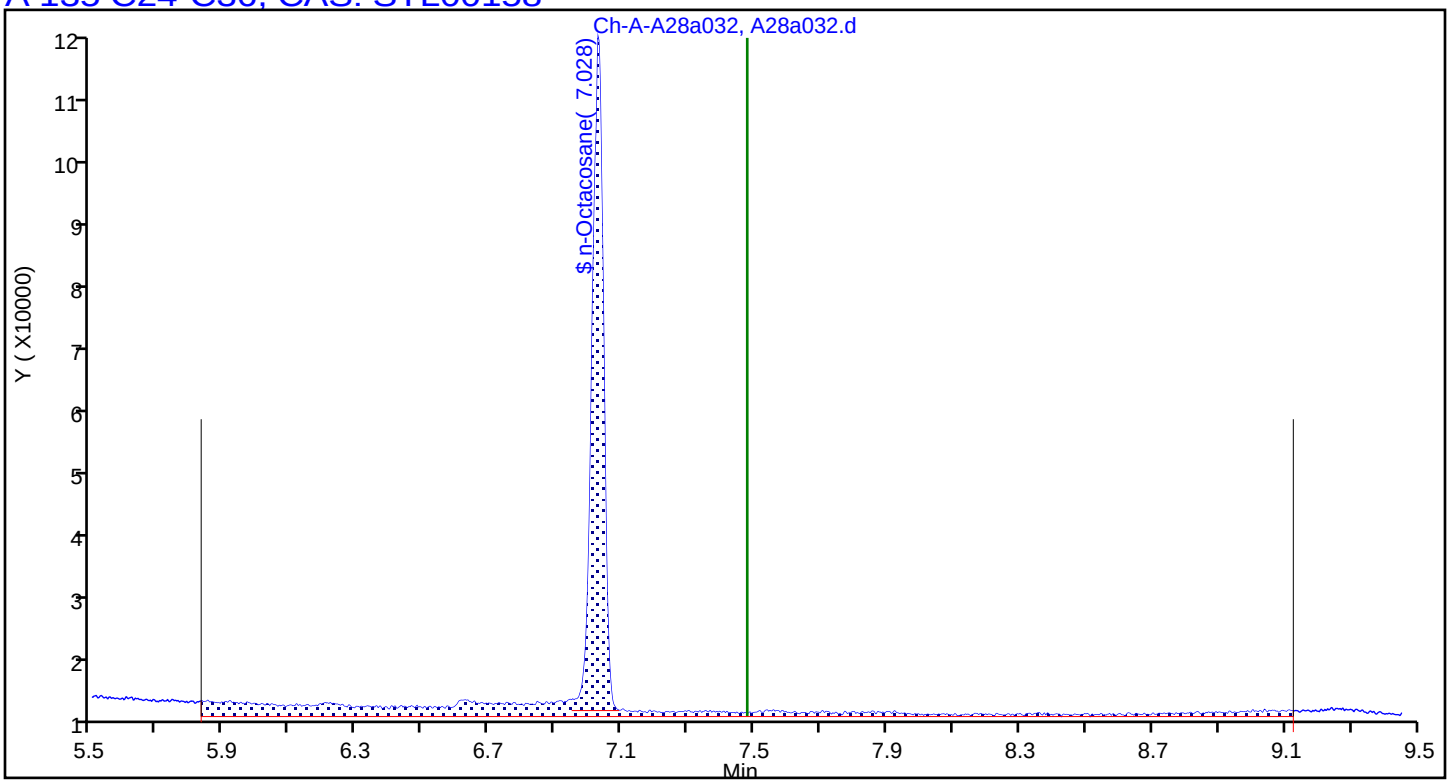


Report Date: 29-Jan-2019 08:52:11 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a032.d				
Injection Date:	28-Jan-2019 22:37:43	Instrument ID:	GC70A		
Lims ID:	720-91011-G-4-A	Lab Sample ID:	440-91011-4		
Client ID:	DG-AG15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a033.d				
Lims ID:	720-91011-D-7-A				
Client ID:	DUP-76				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 22:59:19	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:52:23	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				
First Level Reviewer: doanm		Date:	29-Jan-2019 08:52:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.622	(2.013-7.230)		1859239	513.3	
$ 127 n-Octacosane	7.033	7.052	-0.019	281798	76.6	
A 135 C24-C36	7.478	(5.830-9.127)		877680	242.3	

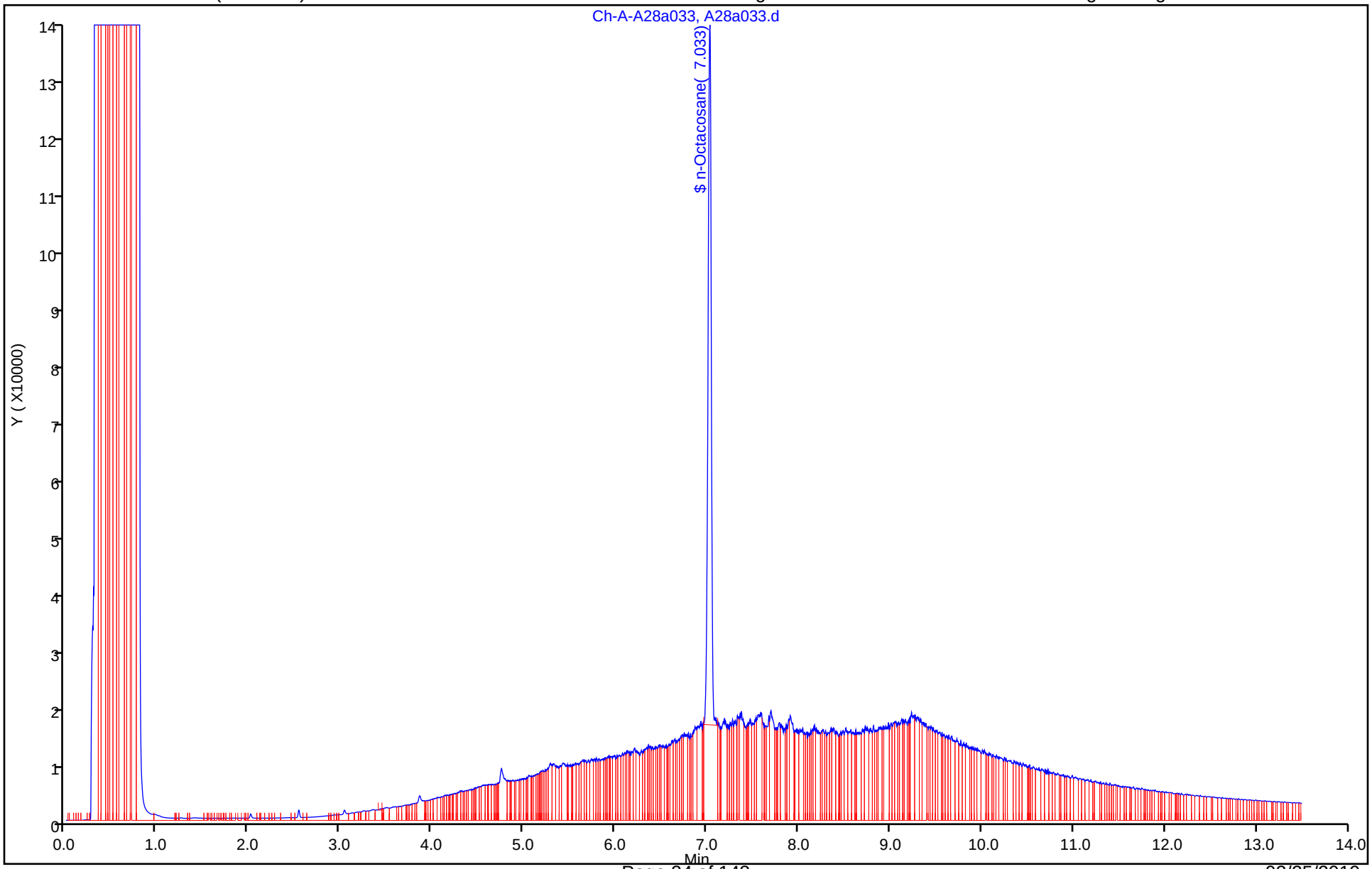
Report Date: 29-Jan-2019 08:52:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a033.d

Injection Date:	28-Jan-2019 22:59:19	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-D-7-A	Lab Sample ID:	440-91011-7	Worklist Smp#:	33
Client ID:	DUP-76				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a033.d				
Lims ID:	720-91011-D-7-A				
Client ID:	DUP-76				
Sample Type:	Client				
Inject. Date:	28-Jan-2019 22:59:19	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 08:52:23	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 08:52:23

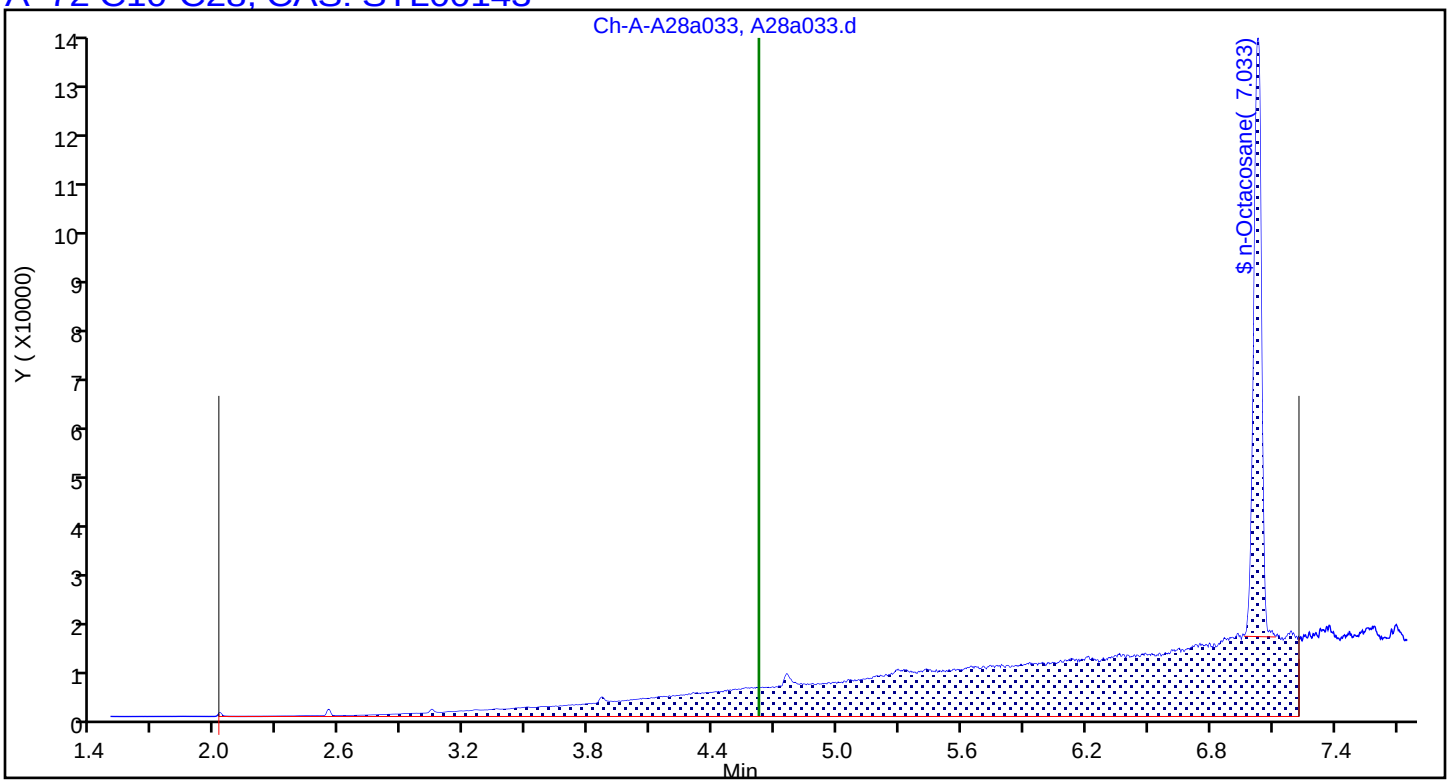
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	76.6	76.60
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 29-Jan-2019 08:52:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a033.d				
Injection Date:	28-Jan-2019 22:59:19	Instrument ID:	GC70A		
Lims ID:	720-91011-D-7-A	Lab Sample ID:	440-91011-7		
Client ID:	DUP-76				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

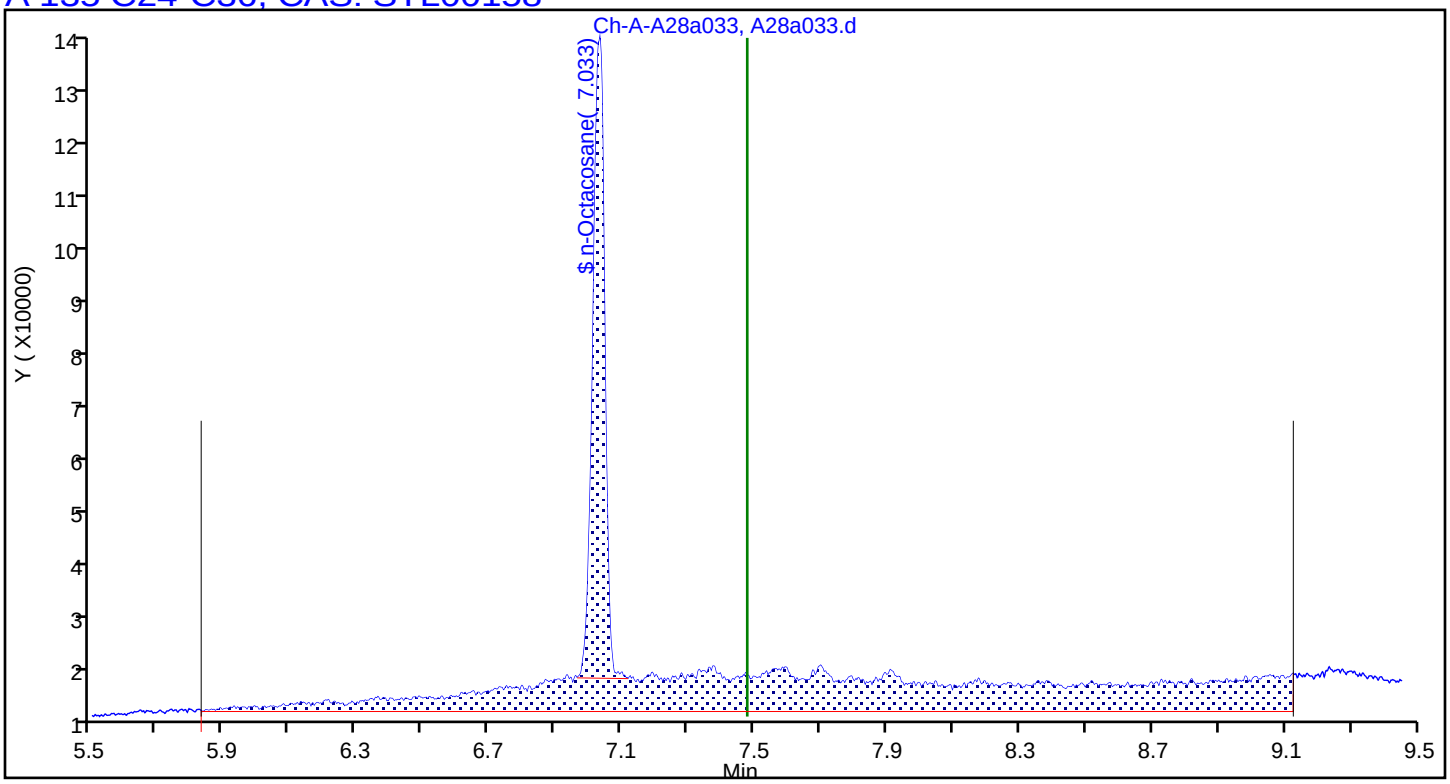


Report Date: 29-Jan-2019 08:52:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190128-114780.b\A28a033.d				
Injection Date:	28-Jan-2019 22:59:19	Instrument ID:	GC70A		
Lims ID:	720-91011-D-7-A	Lab Sample ID:	440-91011-7		
Client ID:	DUP-76				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a018.d
Lims ID: 720-91011-F-8-C
Client ID: DG-AI15S-0.5-1
Sample Type: Client
Inject. Date: 29-Jan-2019 13:35:53 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 29-Jan-2019 13:53:35 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0317

First Level Reviewer: doanm Date: 29-Jan-2019 13:53:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 197 C7 Range	0.627	(0.183-1.070)		28440820	7852.0	
A 3 C8 Range	1.296	(1.070-1.522)		1721	0.4751	
A 4 C8-C9	1.532	(1.070-1.993)		4008	1.11	
A 7 C8-C10	1.696	(1.070-2.322)		9107	2.51	
A 8 C9 Range	1.758	(1.522-1.993)		1041	0.2874	
A 22 C7-C14	1.816	(0.227-3.405)		28665703	7914.0	
A 9 C8-C11	1.858	(1.070-2.647)		27594	7.62	
A 10 C9-C10	1.888	(1.522-2.253)		4023	1.11	
A 12 C10 Range	2.158	(1.993-2.322)		2420	0.6681	
A 13 C9-C12	2.228	(1.522-2.933)		70893	19.6	
A 16 C10-C11	2.320	(1.993-2.647)		18254	5.04	
A 18 Stoddard Solvent	2.353	(1.522-3.183)		131328	36.3	
A 17 Mineral Spirits	2.353	(1.522-3.183)		131328	36.3	
A 196 C9-C13	2.353	(1.522-3.183)		131328	36.3	
A 15 C8-C15	2.373	(1.070-3.675)		287894	79.5	
A 21 C8-C16	2.456	(1.070-3.842)		372063	102.7	
A 20 C10-C12	2.463	(1.993-2.933)		64663	17.9	
A 23 C11 Range	2.484	(2.322-2.647)		10530	2.91	
A 24 C11-C12	2.628	(2.322-2.933)		52260	14.4	
A 30 C9-C16	2.682	(1.522-3.842)		364216	100.6	
A 29 C8-C18	2.759	(1.070-4.448)		1227725	308.3	
A 27 C8-C18 DRO	2.759	(1.070-4.448)		1227725	339.0	
A 26 Jet Fuel JP-8	2.759	(1.070-4.448)		1227725	0	
A 192 C12 Range	2.790	(2.647-2.933)		16343	4.51	
A 31 C9 - C17	2.806	(1.522-4.090)		587786	162.3	
A 32 C12-C13	2.915	(2.647-3.183)		49178	13.6	
34 C13	2.968	2.983	-0.015	3136	0.8658	
A 33 C9 - C18	2.985	(1.522-4.448)		1218277	336.3	
A 35 C12-C14	3.026	(2.647-3.405)		80627	22.3	
A 194 C13 Range	3.058	(2.933-3.183)		12165	3.36	
A 36 C13-C14	3.169	(2.933-3.405)		25287	6.98	
A 193 C14 Range	3.208	(3.172-3.243)		1377	0.3802	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 199 C10-C18	3.221	(1.993-4.448)		1203684	NC	
39 n-Tetradecane	3.435	3.263	0.172	5639	1.56	
A 37 C8-C22	3.289	(1.070-5.508)		4631944	1278.8	
A 38 C13-C15	3.304	(2.933-3.675)		66393	18.3	
A 40 C14-C15	3.429	(3.183-3.675)		41365	11.4	
A 44 C14-C16	3.513	(3.183-3.842)		88555	24.4	
A 43 C8-C24	3.596	(1.070-6.122)		6361990	1756.4	
A 46 C15-C16	3.623	(3.405-3.842)		44500	12.3	
A 45 C10-C21	3.635	(1.993-5.277)		3878630	1070.8	
A 47 C10-C22	3.751	(1.993-5.508)		4599253	1269.8	
A 48 C9-C24	3.822	(1.522-6.122)		6348124	1752.6	
A 51 C16-C17	3.883	(3.675-4.090)		130858	36.1	
A 52 C10-C23	3.903	(1.993-5.812)		5461211	1507.7	
A 53 C11-C22	3.915	(2.322-5.508)		4544827	1254.7	
A 54 C12-C21	3.962	(2.647-5.277)		3584542	989.6	
A 55 C9-C25	3.964	(1.522-6.407)		7193885	1986.1	
A 56 C10-C24	4.058	(1.993-6.122)		6324294	1746.0	
A 57 C12-C22	4.078	(2.647-5.508)		4280867	1181.9	
A 59 C8-C28	4.132	(1.070-7.193)		10075681	2781.7	
A 61 C17-C18	4.145	(3.842-4.448)		516195	142.5	
A 62 C15-C20	4.178	(3.405-4.950)		2163945	597.4	
A 63 C10-C25	4.200	(1.993-6.407)		7168482	1979.1	
A 64 C13-C22	4.221	(2.933-5.508)		4051623	1118.6	
A 14 C12-C23	4.229	(2.647-5.812)		5111011	1411.1	
A 66 C13-C23	4.373	(2.933-5.812)		4856687	1340.8	
A 69 C8-C30	4.381	(1.070-7.692)		12314169	3399.7	
A 67 C12-C24	4.384	(2.647-6.122)		5941582	1640.4	
A 68 C18-C19	4.417	(4.090-4.743)		780105	215.4	
71 C19	4.533	4.547	-0.014	50501	13.9	
A 70 C16-C22	4.592	(3.675-5.508)		3559750	982.8	
A 72 C10-C28	4.593	(1.993-7.193)		10029241	2768.9	
A 60 Diesel	4.593	(1.993-7.193)		10029241	2768.9	
A 73 C8-C32	4.643	(1.070-8.215)		14593381	4029.0	
A 75 C7-C36	4.646	(0.183-9.108)		46661969	12882	E
A 74 C19-C20	4.699	(4.448-4.950)		429816	118.7	
A 77 C10-C30	4.843	(1.993-7.692)		12263662	3385.8	
A 78 C8-C34	4.866	(1.070-8.662)		16384699	4523.5	
A 195 C13-C27	4.941	(2.933-6.948)		8226844	2271.3	
A 79 C20-C21	5.010	(4.743-5.277)		171356	47.3	
A 81 C13-C28	5.063	(2.933-7.193)		9165572	2530.4	
A 80 C8-C36	5.089	(1.070-9.108)		18068741	4988.4	
A 83 C10-C32	5.104	(1.993-8.215)		14538604	4013.8	
A 85 C21-C22	5.229	(4.950-5.508)		201727	55.7	
A 84 C20-C23	5.278	(4.743-5.812)		556493	153.6	
A 86 C13-C30	5.313	(2.933-7.692)		11306526	3121.5	
A 88 C22-C23	5.544	(5.277-5.812)		164017	45.3	
A 89 C10-C36	5.551	(1.993-9.108)		18006674	4971.3	
A 92 C8-C40	5.564	(1.070-10.058)		20543303	5671.6	
A 90 C13-C32	5.574	(2.933-8.215)		13483311	3722.5	
A 198 C18-C28	5.642	(4.090-7.193)		6049588	1670.2	
A 91 C12-C34	5.654	(2.647-8.662)		15677169	4328.2	
A 96 C9-C40	5.790	(1.522-10.058)		20519044	5664.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 94 C23-C24	5.815	(5.508-6.122)		153533	42.4	
A 95 C18-C30	5.891	(4.090-7.692)		7737318	2136.1	
A 99 C13-C36	6.021	(2.933-9.108)		16783828	4633.7	
A 101 C10-C40	6.026	(1.993-10.058)		20473484	5652.3	
A 100 C17-C32	6.028	(3.842-8.215)		11774175	3250.6	
A 98 C24-C25	6.109	(5.812-6.407)		182738	50.5	
102 C25	6.197	6.203	-0.006	48222	13.3	
A 103 C21-C30	6.321	(4.950-7.692)		2436330	672.6	
A 111 C8-C44	6.360	(1.070-11.650)		21844162	6030.8	
A 104 C24-C27	6.380	(5.812-6.948)		670937	185.2	
A 105 C16-C36	6.392	(3.675-9.108)		15456467	4267.2	
A 106 C25-C26	6.399	(6.122-6.677)		193087	53.3	
A 109 C17-C36	6.475	(3.842-9.108)		14749661	4072.1	
A 107 C20-C32	6.479	(4.743-8.215)		3571350	986.0	
A 112 C13 - C40	6.496	(2.933-10.058)		19072456	5265.5	
A 113 C13-C40	6.496	(2.933-10.058)		19072456	5265.5	
A 114 Hydraulic Fluid	6.599	(4.090-9.108)		11926190	3292.6	
A 108 C18-C36	6.599	(4.090-9.108)		11926190	3292.6	
A 116 C25-C28	6.658	(6.122-7.193)		761550	210.2	
A 115 C26-C27	6.678	(6.407-6.948)		273568	75.5	
A 117 C22-C32	6.746	(5.277-8.215)		3131258	864.5	
118 C27	6.778	6.763	0.015	86446	23.9	
A 126 C10-C44	6.822	(1.993-11.650)		21761355	6007.9	
A 121 C16-C40	6.852	(3.675-10.028)		17489517	4828.5	
A 120 C23-C32	6.862	(5.508-8.215)		3004221	829.4	
A 210 C20-C36	6.926	(4.743-9.108)		4750486	1311.5	
A 122 C27-C28	6.935	(6.677-7.193)		261190	72.1	
A 123 C24-C32	7.013	(5.812-8.215)		2919476	806.0	
$ 127 n-Octacosane	7.052	7.037	0.015	310654	84.4	
A 124 C22-C35	7.068	(5.277-8.858)		4026537	1111.6	
A 130 C18-C40	7.074	(4.090-10.058)		13350811	3685.9	
A 125 C23-C34	7.085	(5.508-8.662)		3647427	1007.0	
A 128 C23-C35	7.183	(5.508-8.858)		3899500	1076.6	
A 129 C28-C29	7.191	(6.948-7.433)		188836	52.1	
A 133 C19-C40	7.253	(4.448-10.058)		10762571	2971.3	
A 139 C13-C44	7.292	(2.933-11.650)		20061794	5538.7	
132 C29	7.297	7.298	-0.001	218659	60.4	
A 131 C23-C36	7.308	(5.508-9.108)		4183356	1154.9	
A 137 C20-C40	7.401	(4.743-10.058)		10341594	2855.1	
A 136 C28-C31	7.440	(6.948-7.932)		511702	141.3	
A 138 C29-C30	7.443	(7.193-7.692)		199307	55.0	
A 135 C24-C36	7.460	(5.812-9.108)		4098612	1131.5	
A 140 C25-C36	7.615	(6.122-9.108)		3479321	960.6	
A 142 C30-C31	7.683	(7.433-7.932)		146456	40.4	
A 143 C29-C32	7.704	(7.193-8.215)		458781	126.7	
A 144 C17-C44	7.731	(3.842-11.620)		18480955	5102.2	
A 146 C23-C40	7.783	(5.508-10.058)		8974428	2477.7	
145 C31	7.813	7.815	-0.002	90369	24.9	
A 148 C24-C40	7.935	(5.812-10.058)		8572457	2366.7	
A 147 C31-C32	7.953	(7.692-8.215)		200092	55.2	
A 200 C28-C36	8.028	(6.948-9.108)		1235361	341.1	
A 150 C25-C40	8.090	(6.122-10.058)		8179470	2258.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
152 C33	8.290	8.297	-0.007	190909	52.7	
A 153 C32-C35	8.395	(7.932-8.858)		363519	100.4	
A 154 C33-C34	8.438	(8.215-8.662)		138079	38.1	
A 156 C32-C36	8.520	(7.932-9.108)		457686	126.4	
A 161 C23-C44	8.579	(5.508-11.650)		14937098	4123.8	
A 159 C29-C40	8.611	(7.193-10.028)		5900809	1629.1	
A 158 C33-C36	8.662	(8.215-9.108)		272438	75.2	
A 162 C24-C44	8.731	(5.812-11.650)		14185032	3916.2	
A 164 C31-C40	8.875	(7.692-10.058)		4620913	1275.7	
A 169 C35-C36	8.885	(8.662-9.108)		82580	22.8	
A 166 C33-C40	9.137	(8.215-10.058)		3139575	866.8	
A 168 C36-C39	9.319	(8.858-9.780)		1030137	284.4	
A 171 C35-C40	9.355	(8.662-10.048)		1973272	544.8	
170 C38	9.412	9.405	0.007	45630	12.6	
A 119 C29-C44	9.407	(7.193-11.620)		10061159	2777.7	
A 172 C36-C40	9.458	(8.858-10.058)		1571498	433.9	
A 174 C37-C40	9.583	(9.108-10.058)		1026191	283.3	
173 C39	9.643	9.648	-0.005	76244	21.0	
A 175 C39-C40	9.783	(9.507-10.058)		311808	86.1	
A 134 C33-C44	9.933	(8.215-11.650)		5978319	1650.5	
A 167 C37-C38	9.938	(9.748-10.128)		125333	34.6	
176 C40	9.950	9.938	0.012	91086	25.1	
A 151 C40-C44	10.715	(9.780-11.650)		1110540	306.6	
A 155 C41-C44	10.839	(10.028-11.650)		748064	206.5	
$ 178 n-Triacontane-d62	13.308	13.288	0.020	10182	NC	
S 179 HC Dist (C10-C44)					1333.4	
S 182 HC Dist (C8-C44)					1334.5	
S 186 HC Dist (C10-C40)					1126.9	
S 187 HC Dist (C10-C36)					719.0	
S 188 HC Dist (C13-C44)					1002.3	
S 189 HC Dist (C13-C40)					795.8	
S 191 HC Dist (C13-C28)					503.9	
S 190 HC Dist (C8-C40)					1128.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

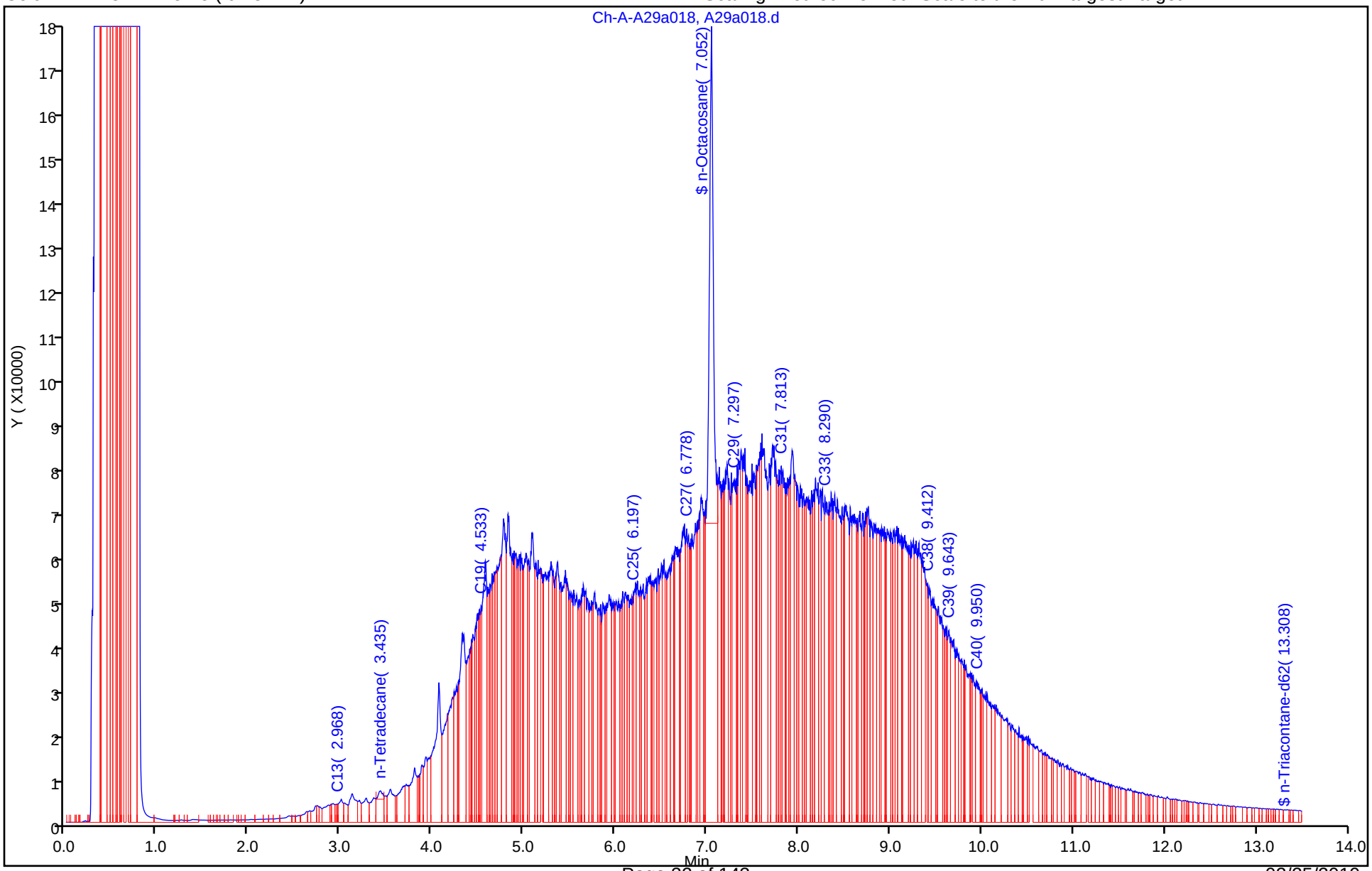
Report Date: 29-Jan-2019 13:53:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a018.d

Injection Date:	29-Jan-2019 13:35:53	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-8-C	Lab Sample ID:	440-91011-8	Worklist Smp#:	18
Client ID:	DG-AI15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a018.d				
Lims ID:	720-91011-F-8-C				
Client ID:	DG-AI15S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 13:35:53	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	29-Jan-2019 13:53:35	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0317				

First Level Reviewer: doanm Date: 29-Jan-2019 13:53:35

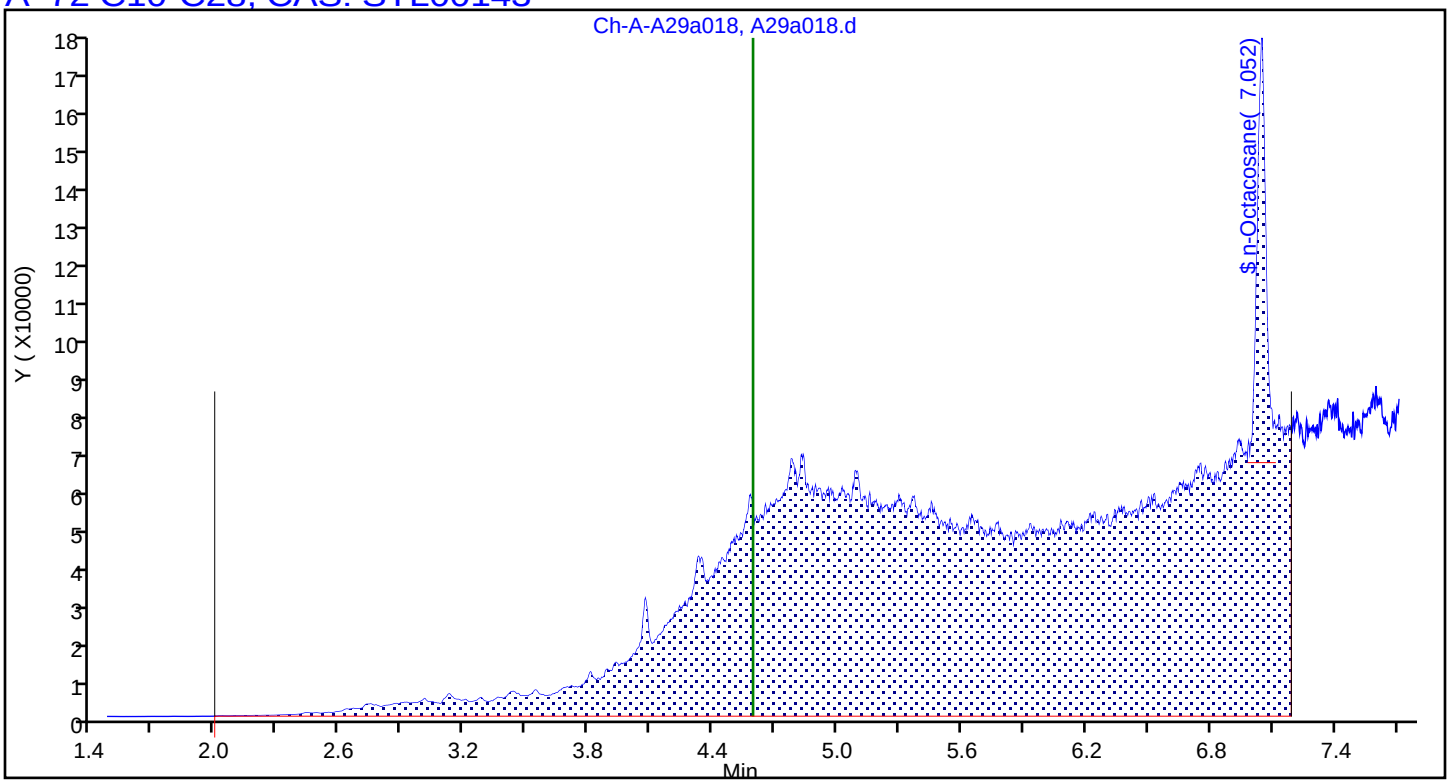
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	84.4	84.44
$ 178 n-Triacontane-d62	0	0	0.00

Report Date: 29-Jan-2019 13:53:37 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a018.d				
Injection Date:	29-Jan-2019 13:35:53	Instrument ID:	GC70A		
Lims ID:	720-91011-F-8-C	Lab Sample ID:	440-91011-8		
Client ID:	DG-AI15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

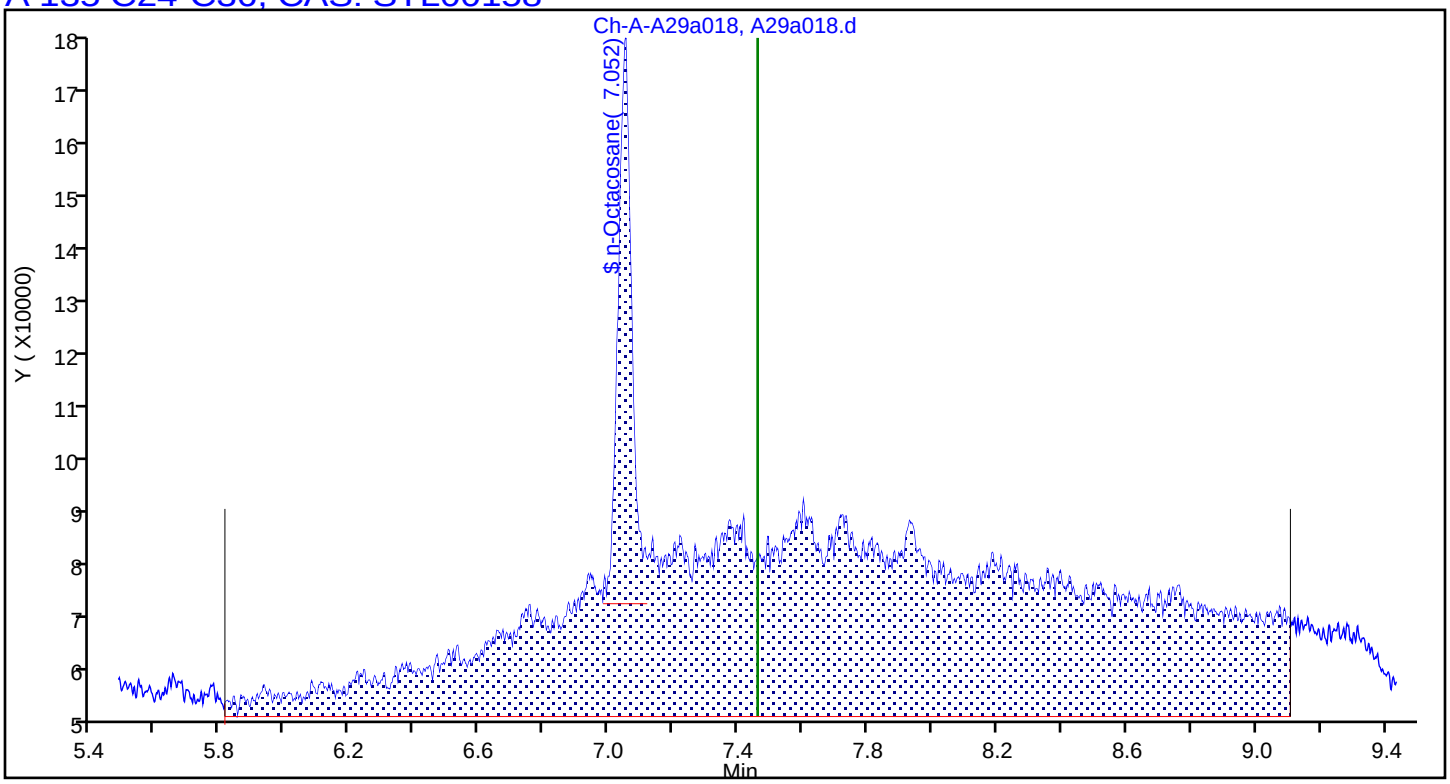


Report Date: 29-Jan-2019 13:53:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a018.d				
Injection Date:	29-Jan-2019 13:35:53	Instrument ID:	GC70A		
Lims ID:	720-91011-F-8-C	Lab Sample ID:	440-91011-8		
Client ID:	DG-AI15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a067.d				
Lims ID:	720-91011-F-9-C				
Client ID:	DG-AI15S-3.5-4				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 08:44:14	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 15:13:32	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 15:13:32		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.625	(2.015-7.235)		294171	81.2	
$ 127 n-Octacosane	7.048	7.055	-0.007	686940	186.7	
A 135 C24-C36	7.496	(5.868-9.123)		323866	89.4	

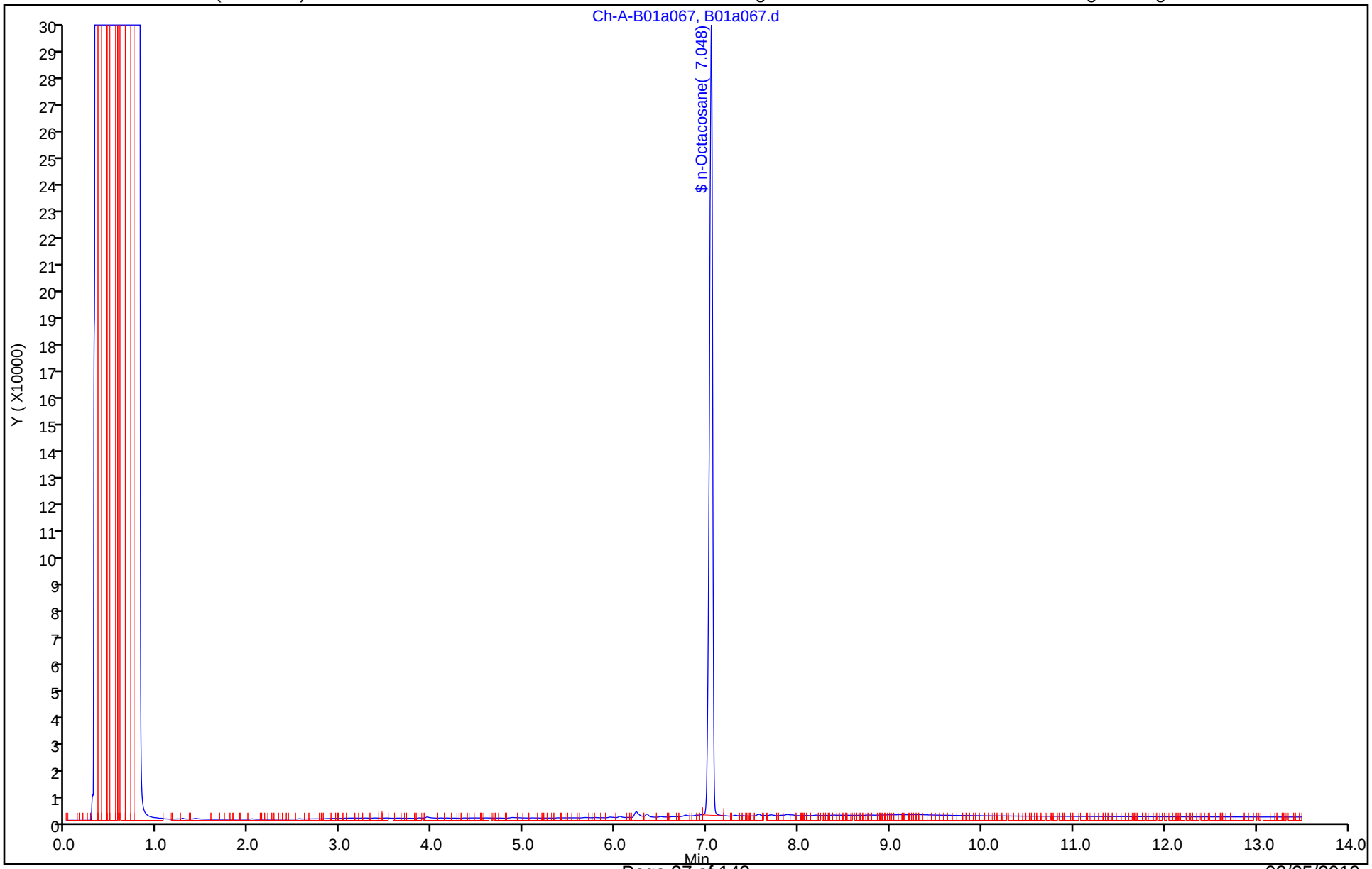
Report Date: 04-Feb-2019 15:13:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a067.d

Injection Date:	02-Feb-2019 08:44:14	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-9-C	Lab Sample ID:	440-91011-9	Worklist Smp#:	67
Client ID:	DG-AI15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a067.d				
Lims ID:	720-91011-F-9-C				
Client ID:	DG-AI15S-3.5-4				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 08:44:14	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 15:13:32	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 15:13:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	186.7	93.36
$ 178 n-Triacontane-d62	0.0	0	0.00

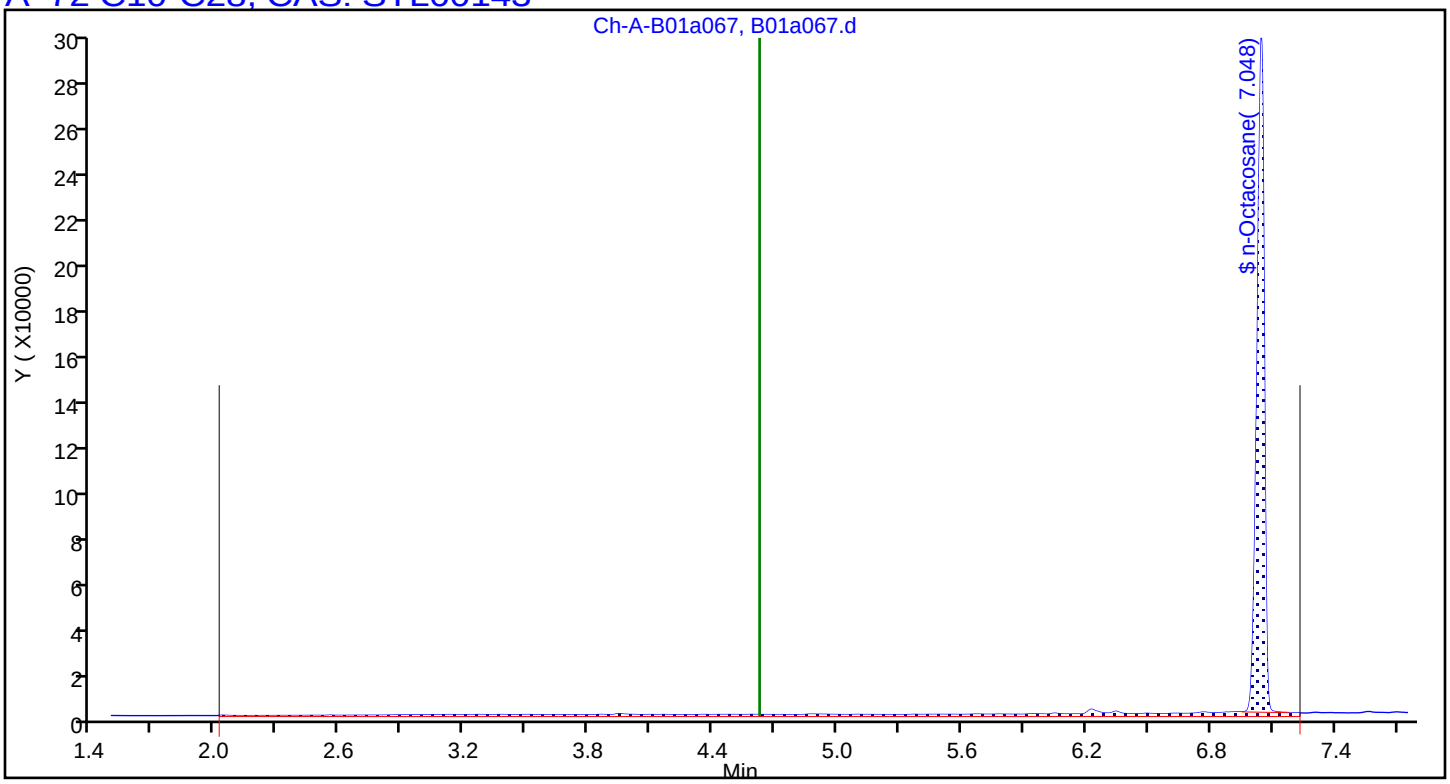
Report Date: 04-Feb-2019 15:13:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a067.d

Injection Date:	02-Feb-2019 08:44:14	Instrument ID:	GC70A		
Lims ID:	720-91011-F-9-C	Lab Sample ID:	440-91011-9		
Client ID:	DG-AI15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

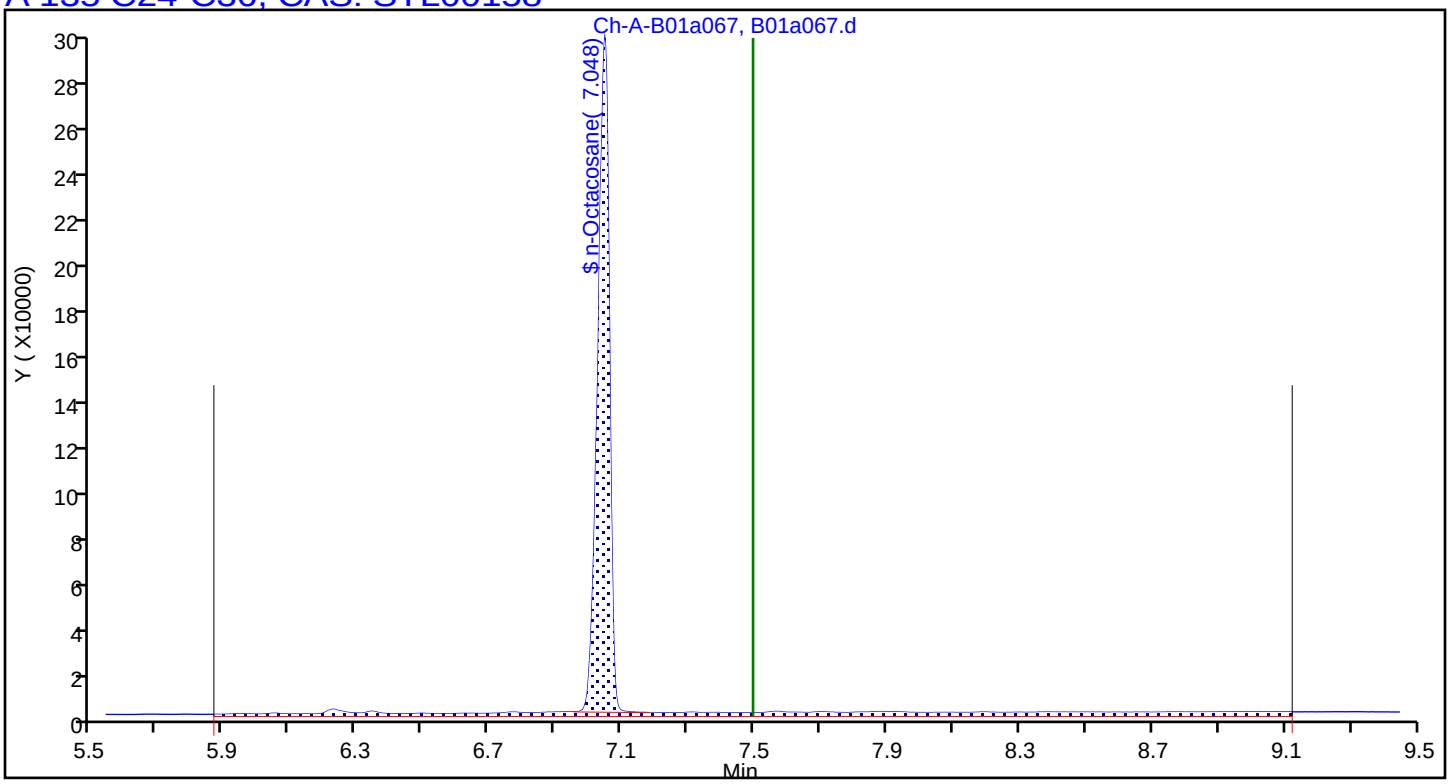


Report Date: 04-Feb-2019 15:13:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a067.d				
Injection Date:	02-Feb-2019 08:44:14	Instrument ID:	GC70A		
Lims ID:	720-91011-F-9-C	Lab Sample ID:	440-91011-9		
Client ID:	DG-AI15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a024.d				
Lims ID:	720-91011-E-10-A				
Client ID:	DUP-112				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 15:44:29	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:03:55	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:03:55		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		815883	225.2	
$ 127 n-Octacosane	7.038	7.037	0.001	467513	127.1	
A 135 C24-C36	7.460	(5.812-9.108)		901584	248.9	

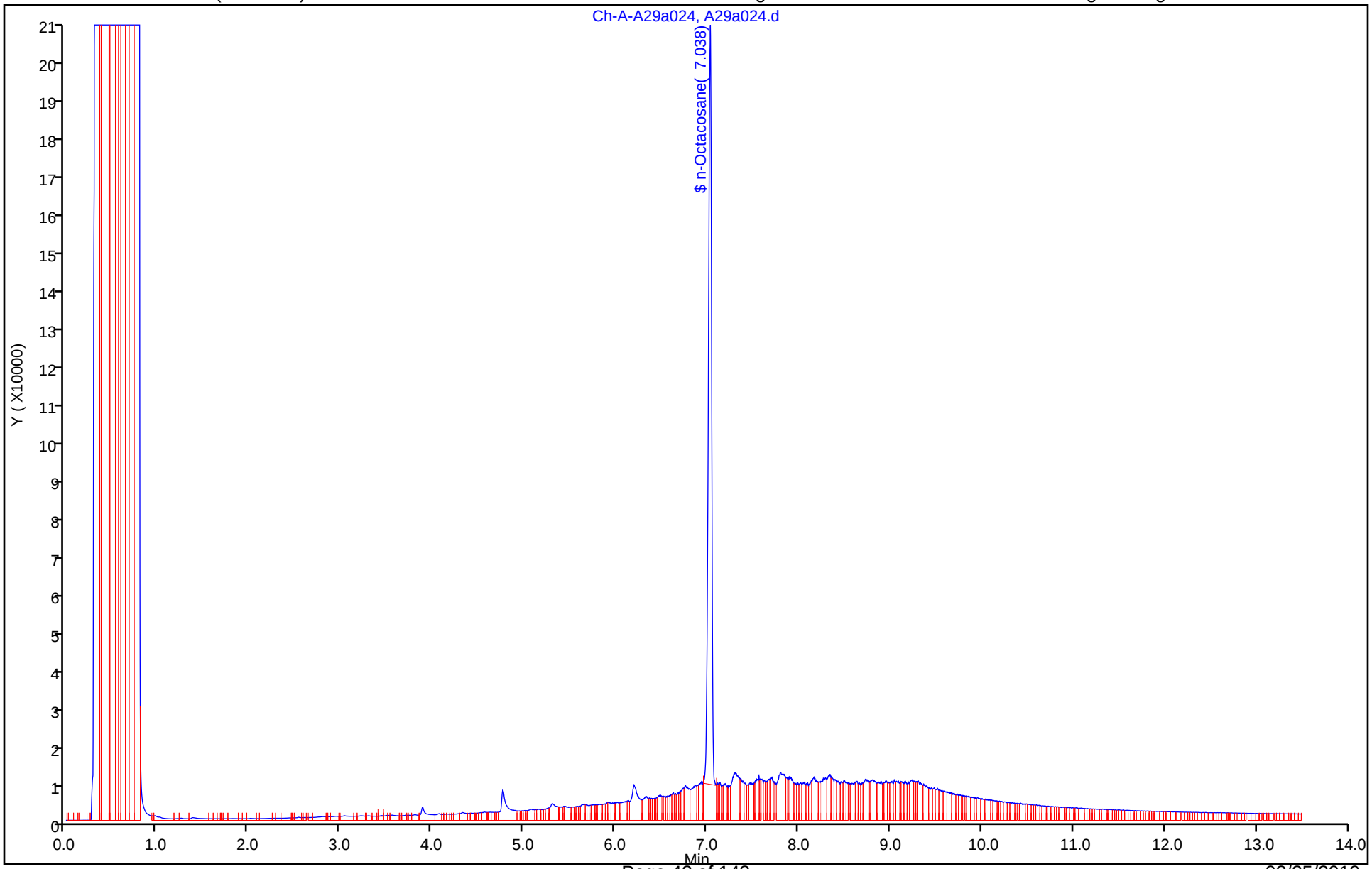
Report Date: 30-Jan-2019 12:03:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a024.d

Injection Date:	29-Jan-2019 15:44:29	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-E-10-A	Lab Sample ID:	440-91011-10	Worklist Smp#:	24
Client ID:	DUP-112				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a024.d				
Lims ID:	720-91011-E-10-A				
Client ID:	DUP-112				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 15:44:29	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:03:55	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:03:55

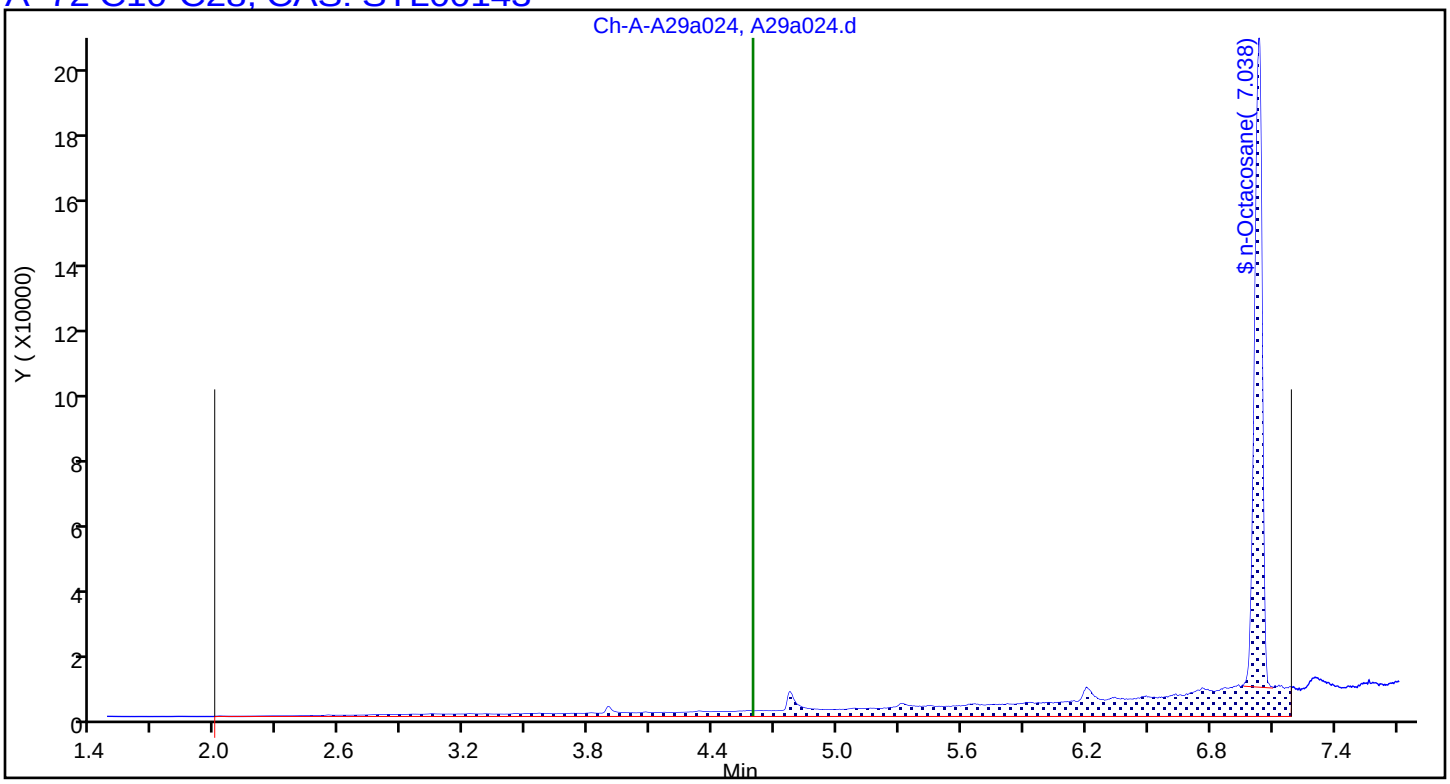
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	127.1	63.54
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 30-Jan-2019 12:03:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a024.d				
Injection Date:	29-Jan-2019 15:44:29	Instrument ID:	GC70A		
Lims ID:	720-91011-E-10-A	Lab Sample ID:	440-91011-10		
Client ID:	DUP-112				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

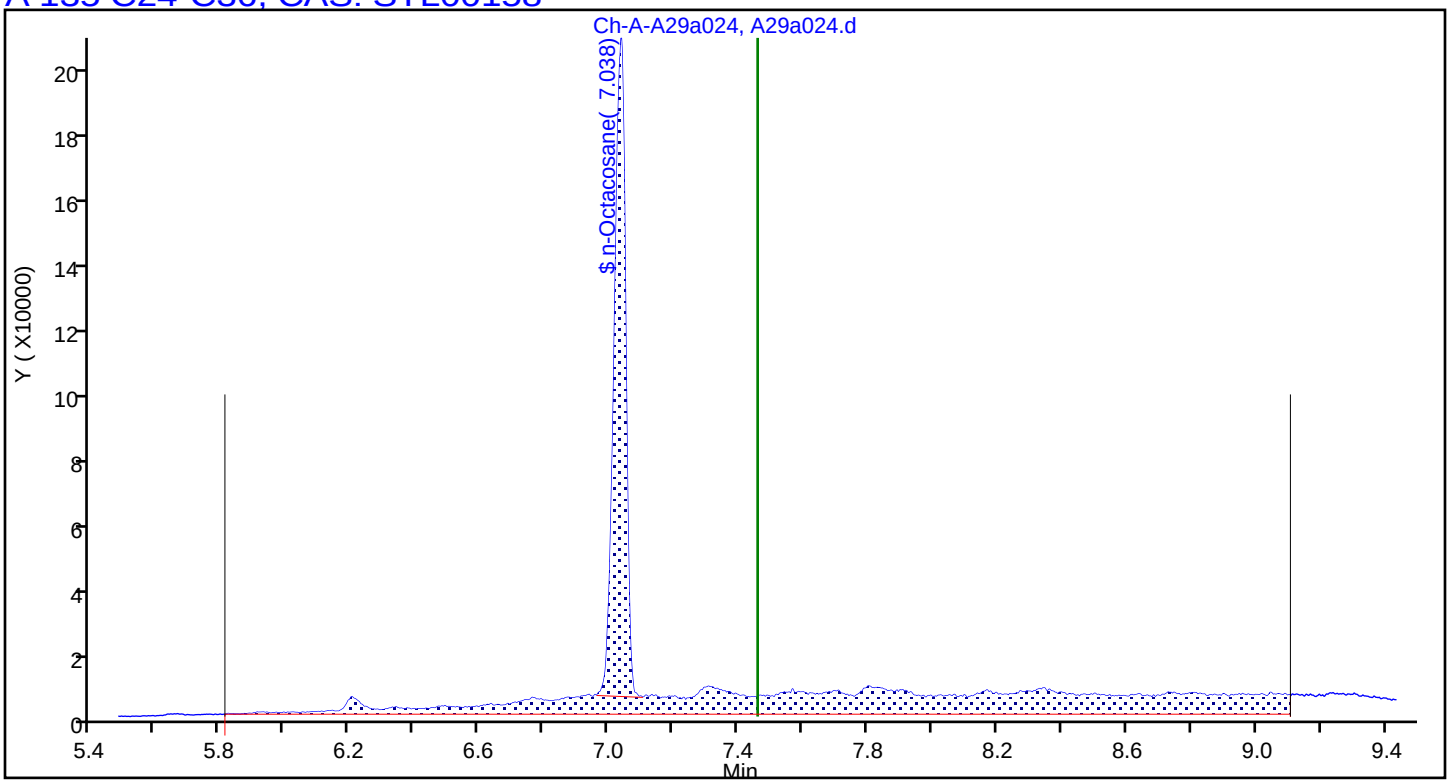


Report Date: 30-Jan-2019 12:03:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a024.d				
Injection Date:	29-Jan-2019 15:44:29	Instrument ID:	GC70A		
Lims ID:	720-91011-E-10-A	Lab Sample ID:	440-91011-10		
Client ID:	DUP-112				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a025.d				
Lims ID:	720-91011-F-11-A				
Client ID:	DG-AJ17S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 16:05:43	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:04:14	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:04:14		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		293496	81.0	
$ 127 n-Octacosane	7.030	7.037	-0.007	411363	111.8	
A 135 C24-C36	7.460	(5.812-9.108)		613222	169.3	

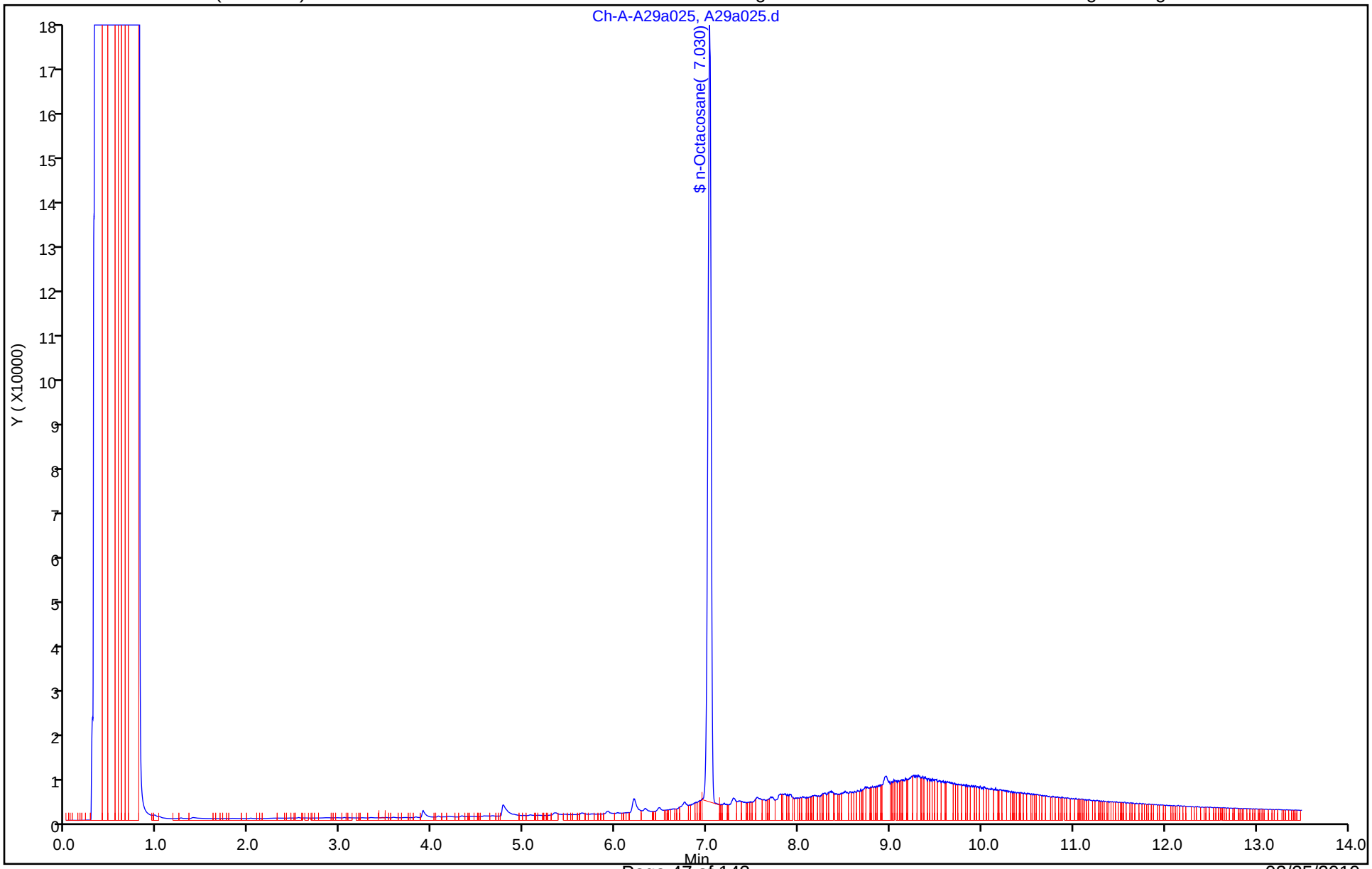
Report Date: 30-Jan-2019 12:04:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a025.d

Injection Date:	29-Jan-2019 16:05:43	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-11-A	Lab Sample ID:	440-91011-11	Worklist Smp#:	25
Client ID:	DG-AJ17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a025.d				
Lims ID:	720-91011-F-11-A				
Client ID:	DG-AJ17S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 16:05:43	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:04:14	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:04:14

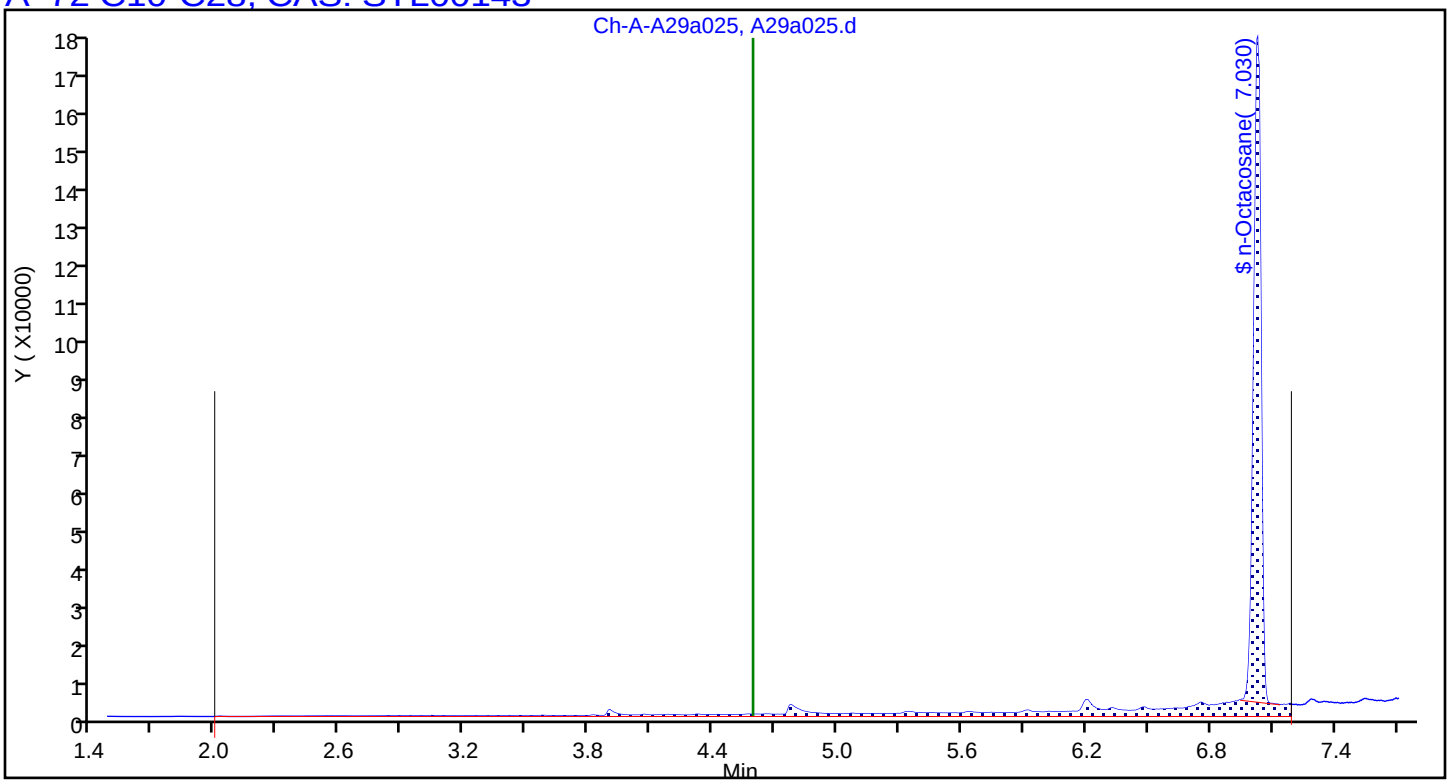
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	111.8	55.91
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 30-Jan-2019 12:04:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a025.d				
Injection Date:	29-Jan-2019 16:05:43	Instrument ID:	GC70A		
Lims ID:	720-91011-F-11-A	Lab Sample ID:	440-91011-11		
Client ID:	DG-AJ17S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

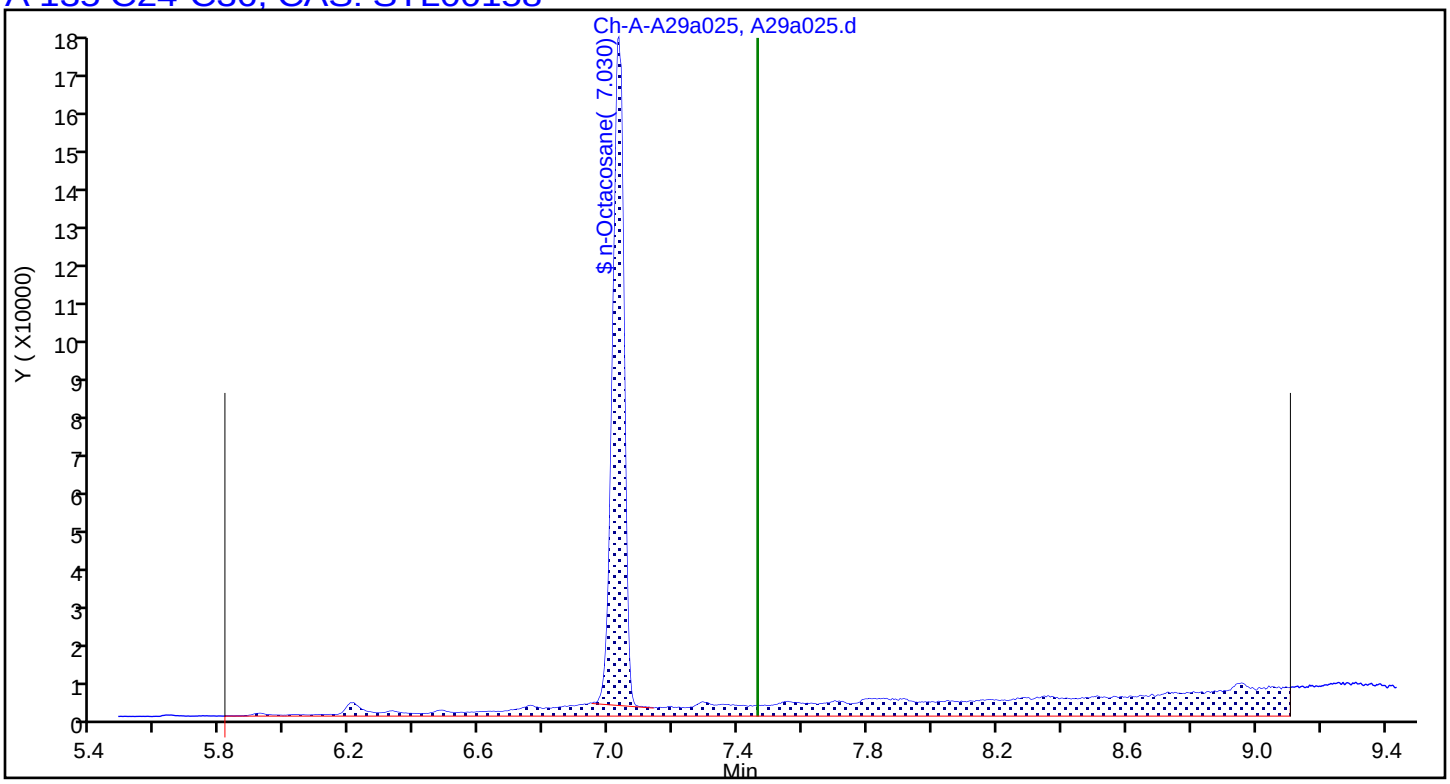


Report Date: 30-Jan-2019 12:04:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a025.d				
Injection Date:	29-Jan-2019 16:05:43	Instrument ID:	GC70A		
Lims ID:	720-91011-F-11-A	Lab Sample ID:	440-91011-11		
Client ID:	DG-AJ17S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a033.d				
Lims ID:	720-91011-F-12-A				
Client ID:	DG-AJ17S-3.5-4				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 18:57:17	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:07:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:07:03		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		92450	25.5	
$ 127 n-Octacosane	7.032	7.037	-0.005	441376	120.0	
A 135 C24-C36	7.460	(5.812-9.108)		169787	46.9	

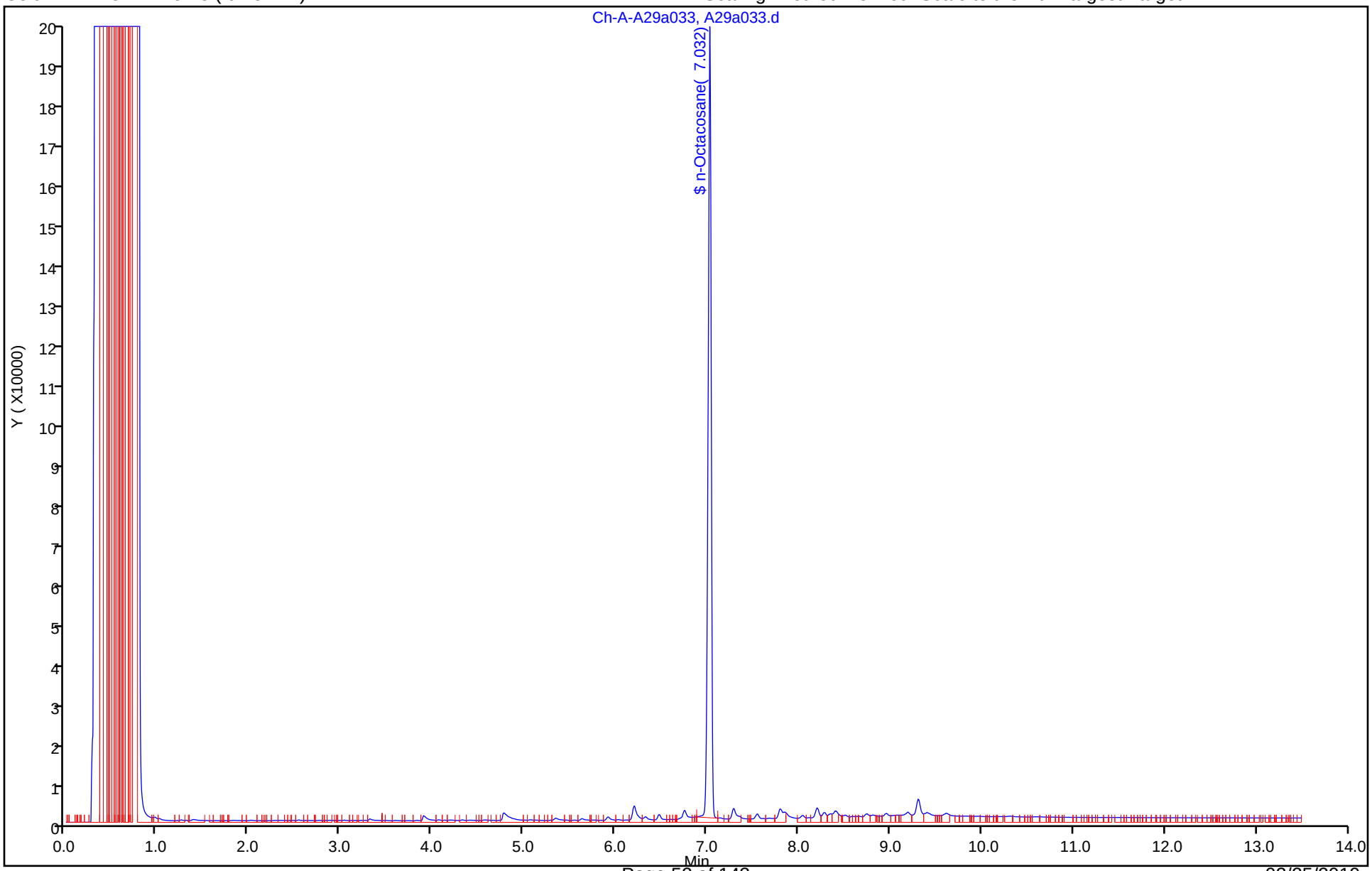
Report Date: 30-Jan-2019 12:07:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a033.d

Injection Date:	29-Jan-2019 18:57:17	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-12-A	Lab Sample ID:	440-91011-12	Worklist Smp#:	33
Client ID:	DG-AJ17S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a033.d				
Lims ID:	720-91011-F-12-A				
Client ID:	DG-AJ17S-3.5-4				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 18:57:17	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:07:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:07:03

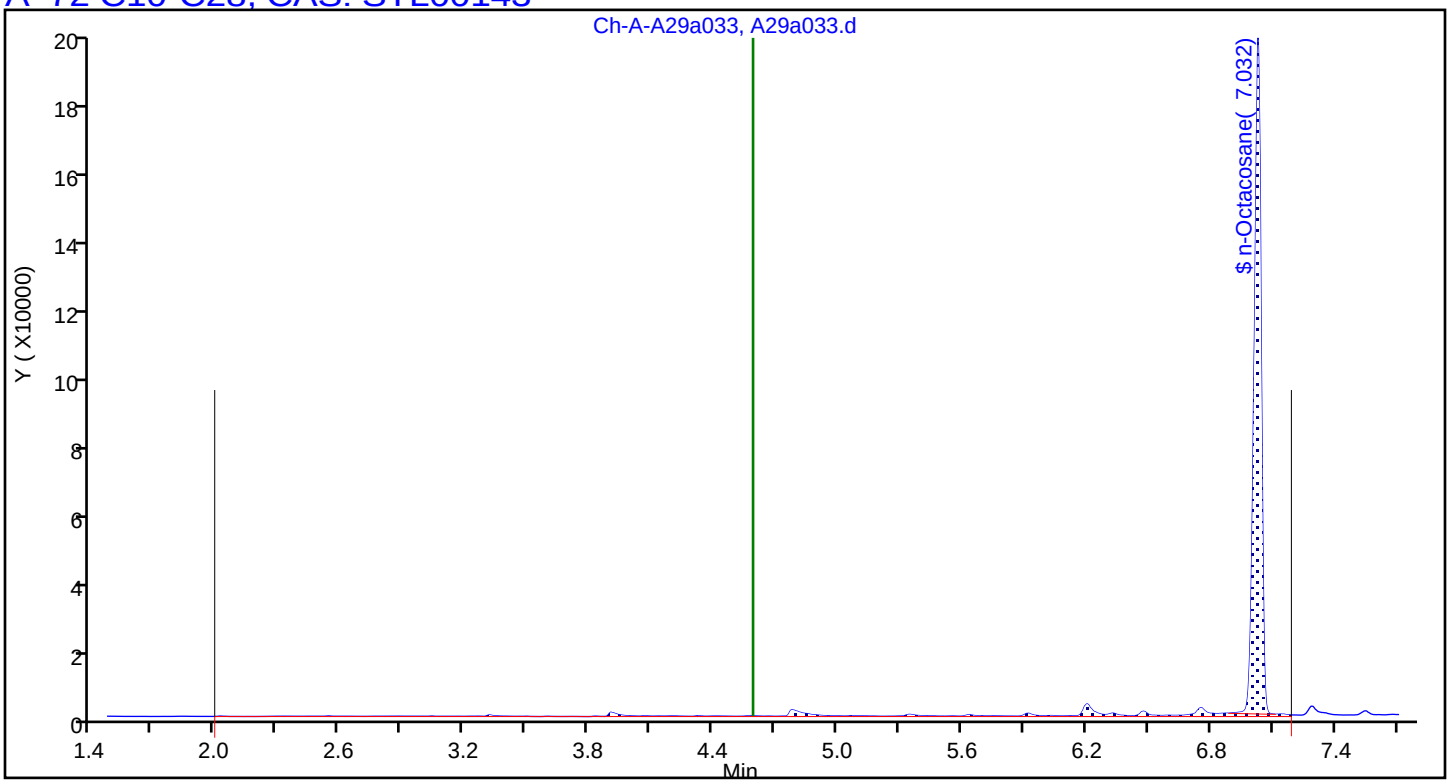
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	120.0	59.99
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 30-Jan-2019 12:07:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a033.d				
Injection Date:	29-Jan-2019 18:57:17	Instrument ID:	GC70A		
Lims ID:	720-91011-F-12-A	Lab Sample ID:	440-91011-12		
Client ID:	DG-AJ17S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

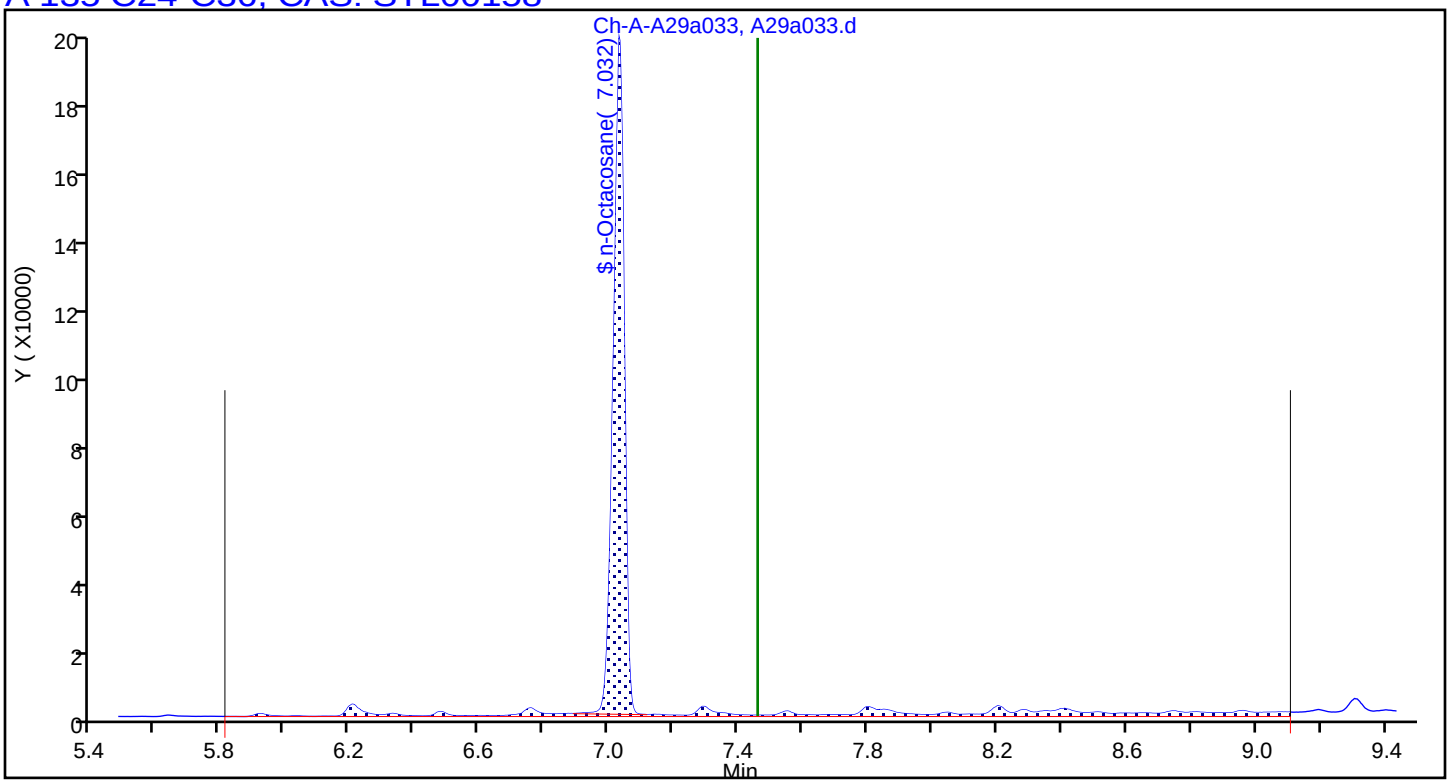


Report Date: 30-Jan-2019 12:07:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a033.d				
Injection Date:	29-Jan-2019 18:57:17	Instrument ID:	GC70A		
Lims ID:	720-91011-F-12-A	Lab Sample ID:	440-91011-12		
Client ID:	DG-AJ17S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a034.d				
Lims ID:	720-91011-F-13-A				
Client ID:	DG-AJ17S-9.5-10				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 19:18:55	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:07:22	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:07:22		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		69094	19.1	
$ 127 n-Octacosane	7.032	7.037	-0.005	403331	109.6	
A 135 C24-C36	7.460	(5.812-9.108)		102427	28.3	

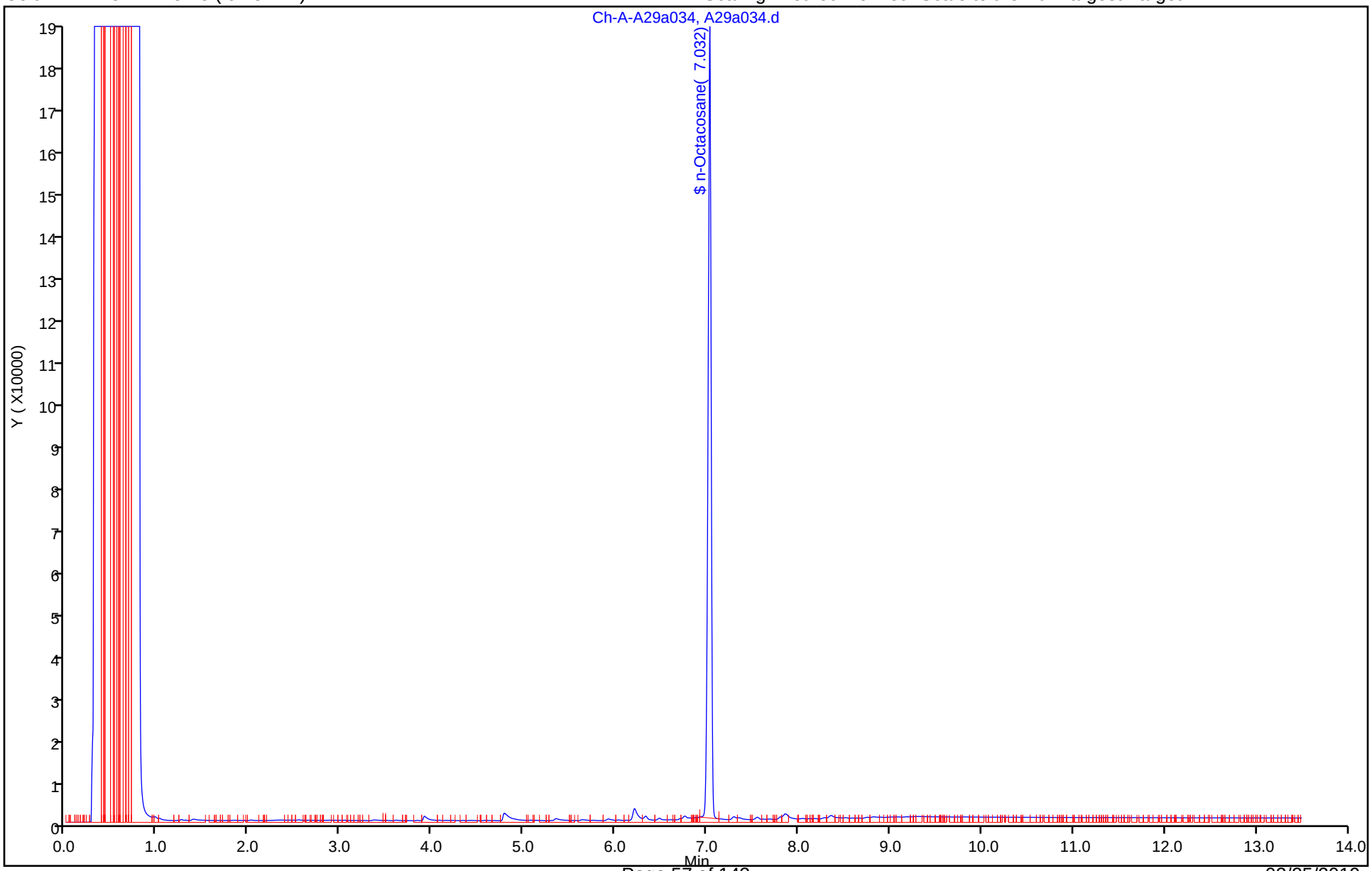
Report Date: 30-Jan-2019 12:07:22 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a034.d

Injection Date:	29-Jan-2019 19:18:55	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-13-A	Lab Sample ID:	440-91011-13	Worklist Smp#:	34
Client ID:	DG-AJ17S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a034.d				
Lims ID:	720-91011-F-13-A				
Client ID:	DG-AJ17S-9.5-10				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 19:18:55	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:07:22	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:07:22

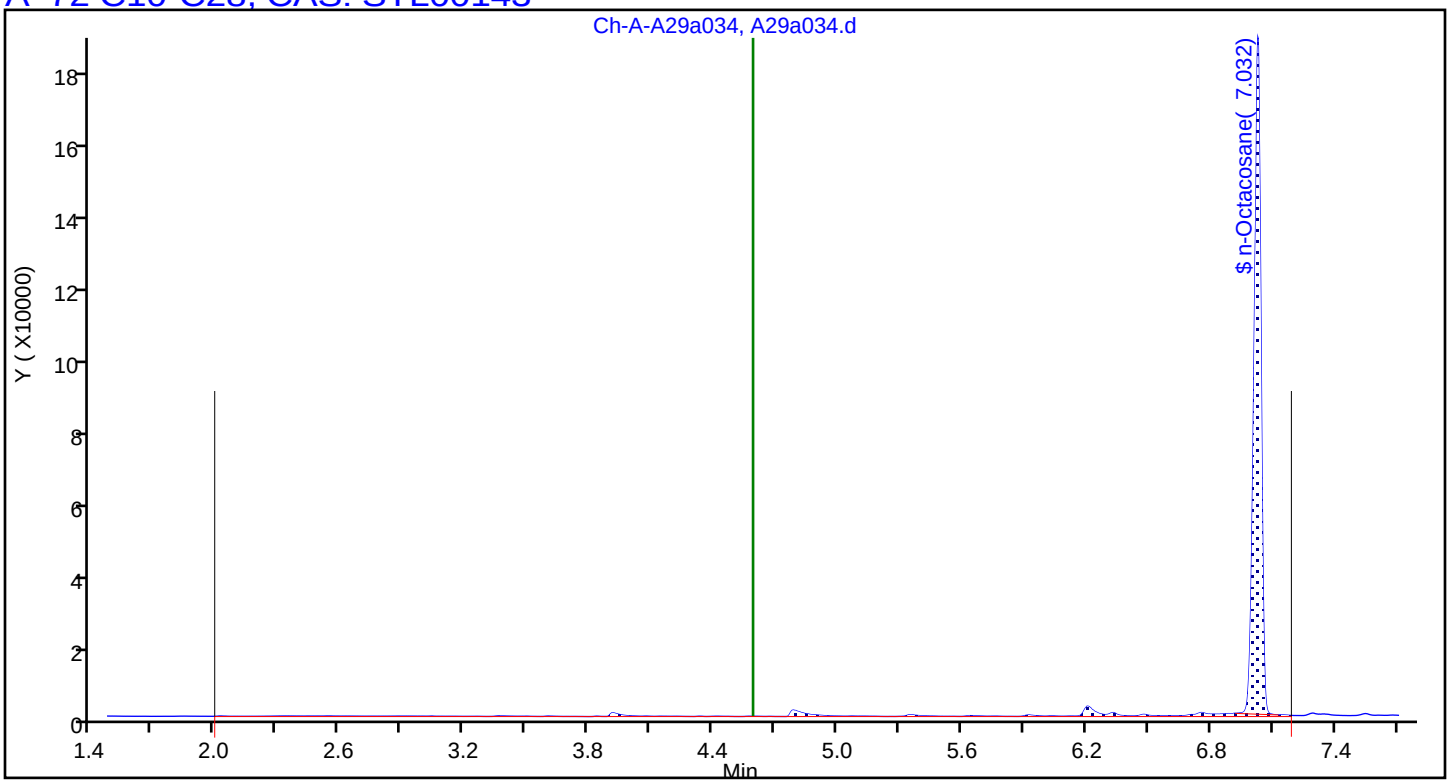
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	109.6	54.82
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 30-Jan-2019 12:07:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a034.d				
Injection Date:	29-Jan-2019 19:18:55	Instrument ID:	GC70A		
Lims ID:	720-91011-F-13-A	Lab Sample ID:	440-91011-13		
Client ID:	DG-AJ17S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

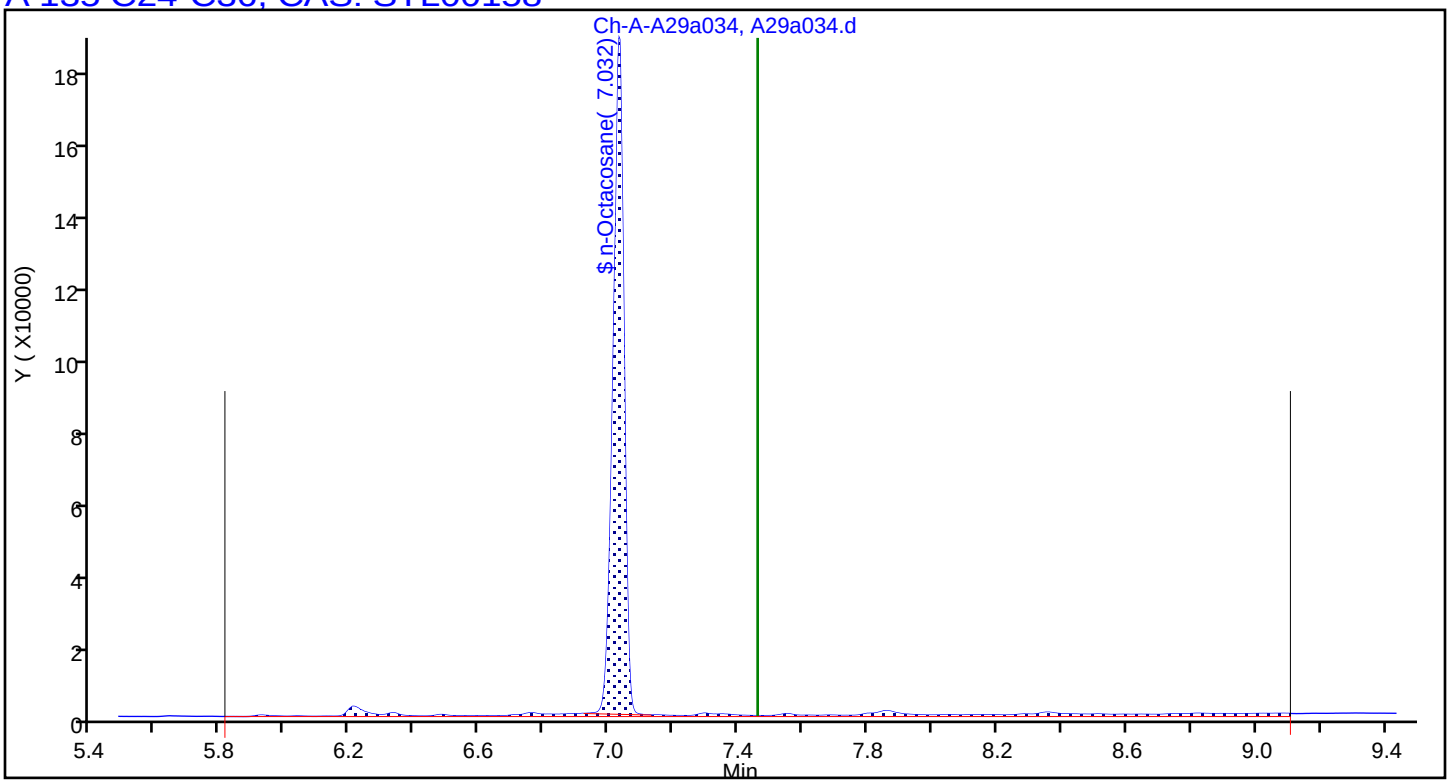


Report Date: 30-Jan-2019 12:07:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a034.d				
Injection Date:	29-Jan-2019 19:18:55	Instrument ID:	GC70A		
Lims ID:	720-91011-F-13-A	Lab Sample ID:	440-91011-13		
Client ID:	DG-AJ17S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a026.d				
Lims ID:	720-91011-F-14-A				
Client ID:	DG-AH17S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 16:27:00	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:04:33	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:04:33		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		196474	54.2	
$ 127 n-Octacosane	7.037	7.037	0.000	521307	141.7	
A 135 C24-C36	7.460	(5.812-9.108)		282208	77.9	

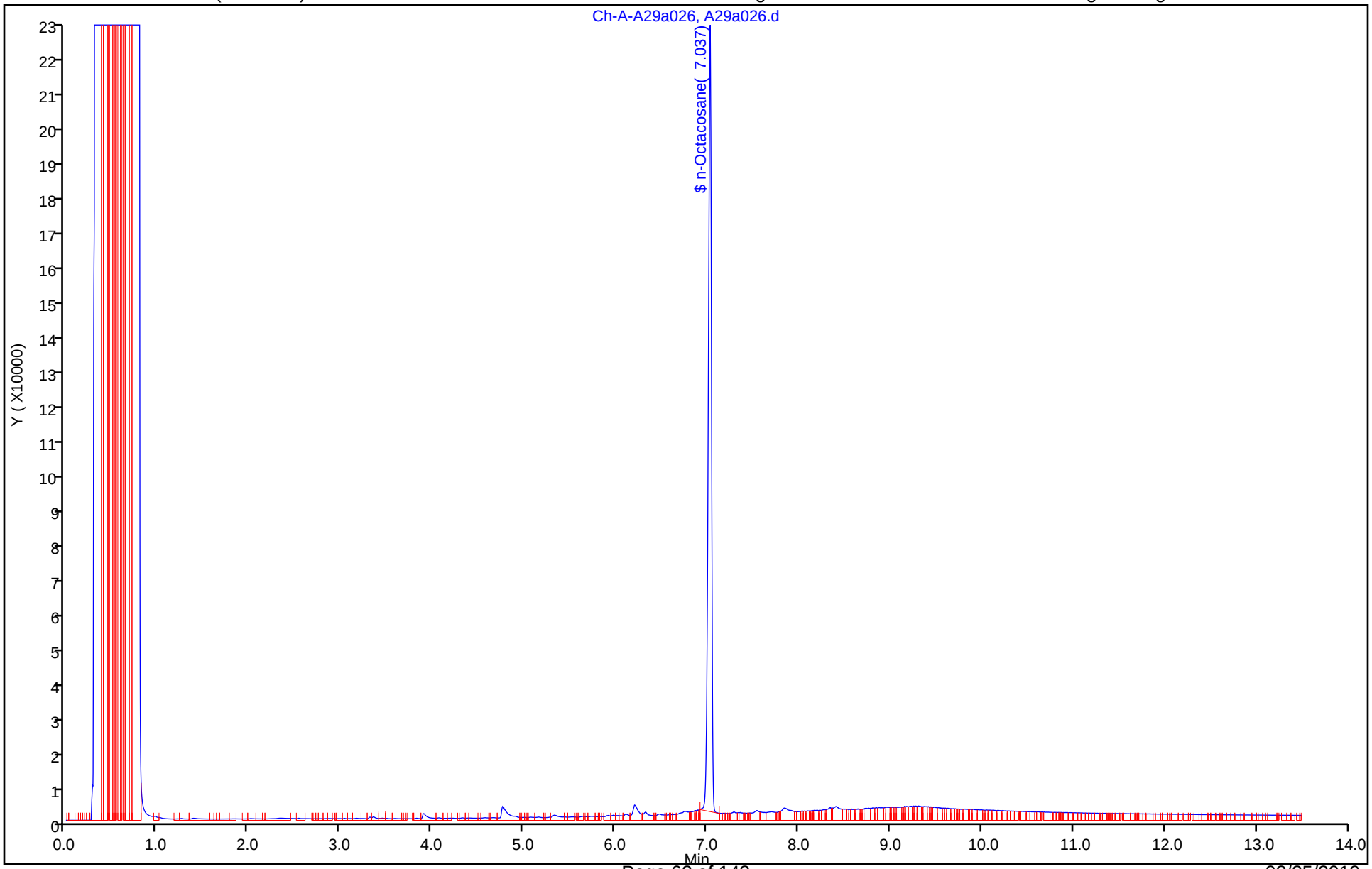
Report Date: 30-Jan-2019 12:04:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a026.d

Injection Date:	29-Jan-2019 16:27:00	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-14-A	Lab Sample ID:	440-91011-14	Worklist Smp#:	26
Client ID:	DG-AH17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a026.d				
Lims ID:	720-91011-F-14-A				
Client ID:	DG-AH17S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 16:27:00	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:04:33	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:04:33

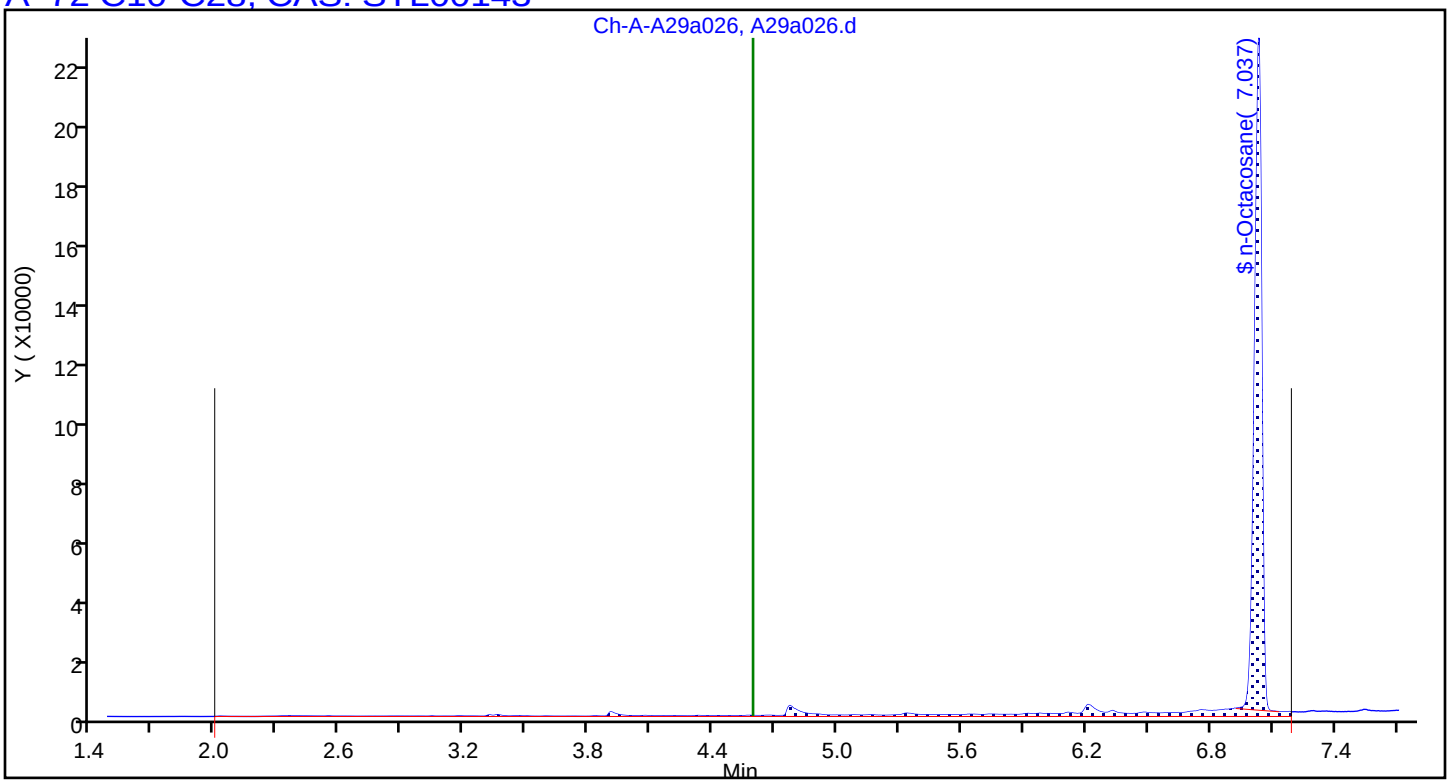
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	141.7	70.85
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 30-Jan-2019 12:04:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a026.d				
Injection Date:	29-Jan-2019 16:27:00	Instrument ID:	GC70A		
Lims ID:	720-91011-F-14-A	Lab Sample ID:	440-91011-14		
Client ID:	DG-AH17S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

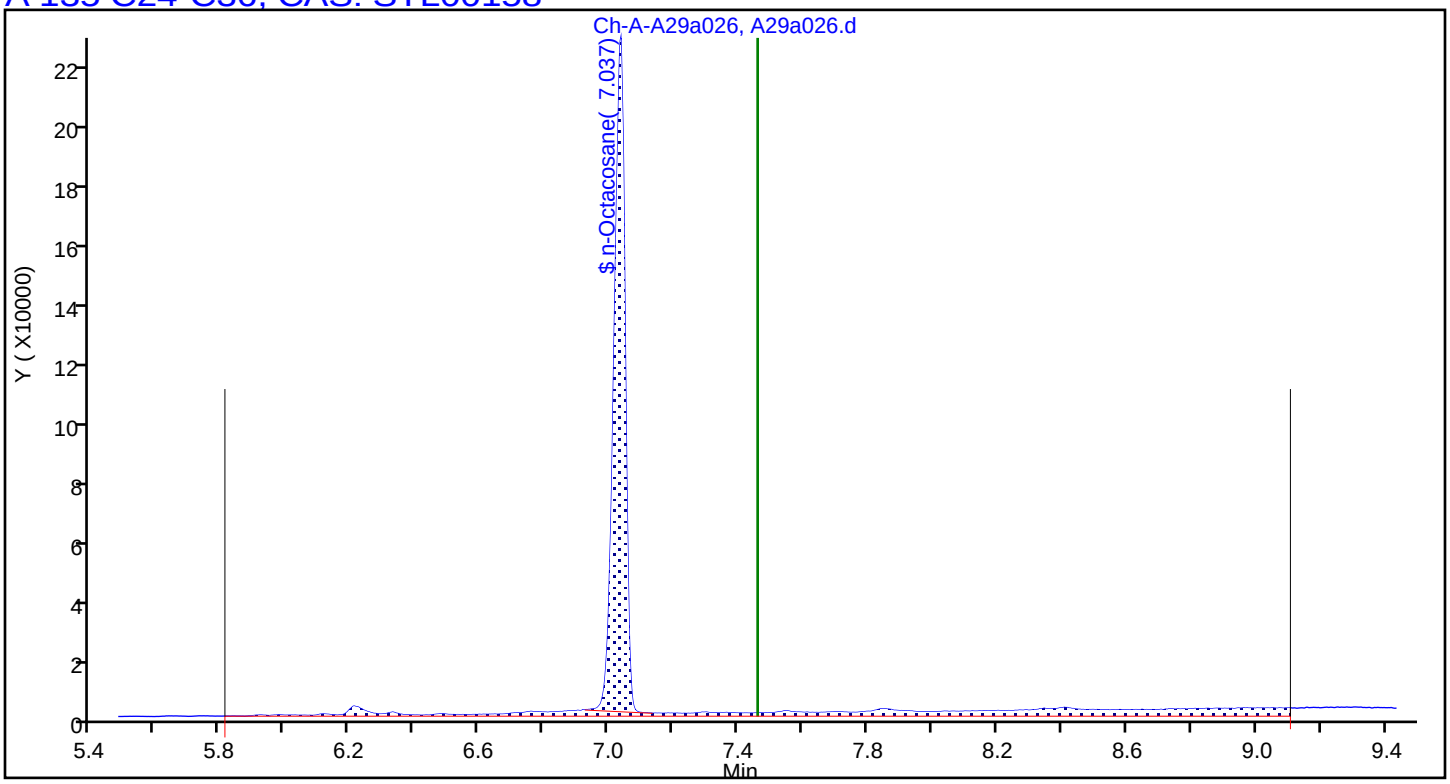


Report Date: 30-Jan-2019 12:04:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a026.d				
Injection Date:	29-Jan-2019 16:27:00	Instrument ID:	GC70A		
Lims ID:	720-91011-F-14-A	Lab Sample ID:	440-91011-14		
Client ID:	DG-AH17S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a027.d				
Lims ID:	720-91011-F-15-A				
Client ID:	DG-AG15S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 16:48:18	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:04:51	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:04:51		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		312035	86.1	
$ 127 n-Octacosane	7.038	7.037	0.001	639279	173.8	
A 135 C24-C36	7.460	(5.812-9.108)		576717	159.2	

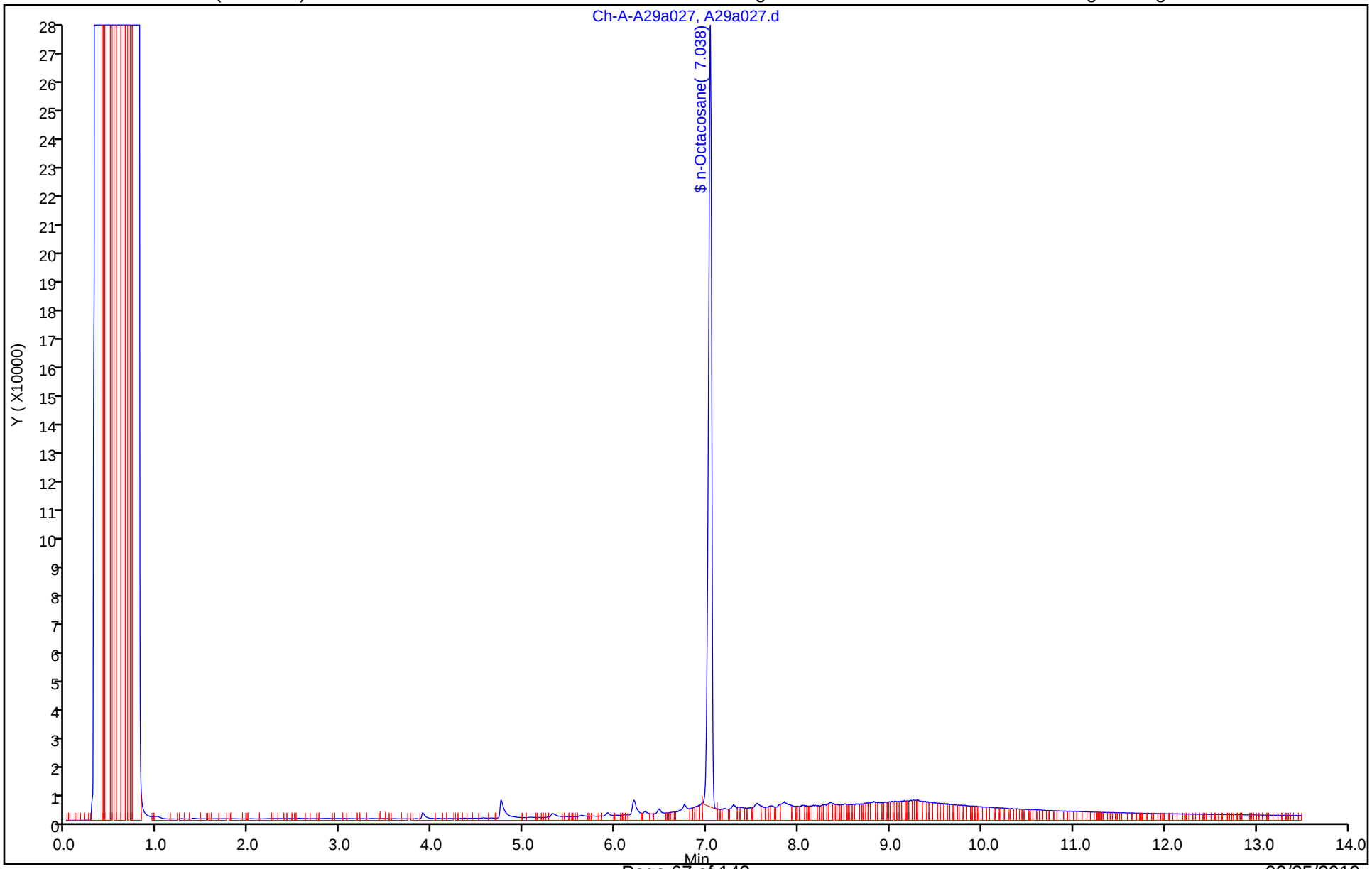
Report Date: 30-Jan-2019 12:04:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a027.d

Injection Date:	29-Jan-2019 16:48:18	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-15-A	Lab Sample ID:	440-91011-15	Worklist Smp#:	27
Client ID:	DG-AG15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a027.d				
Lims ID:	720-91011-F-15-A				
Client ID:	DG-AG15S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 16:48:18	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:04:51	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:04:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	173.8	86.89
$ 178 n-Triacontane-d62	0.0	0	0.00

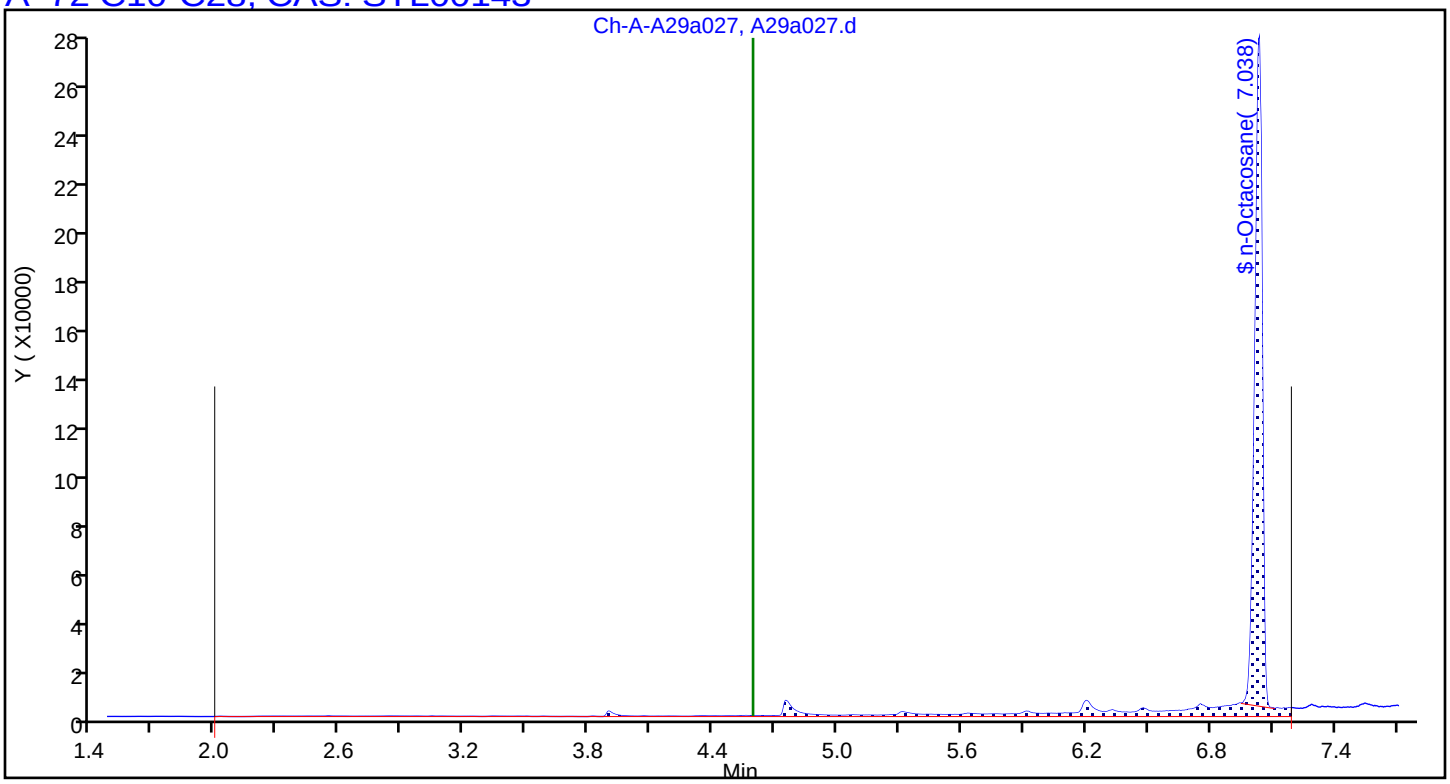
Report Date: 30-Jan-2019 12:04:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a027.d

Injection Date:	29-Jan-2019 16:48:18	Instrument ID:	GC70A		
Lims ID:	720-91011-F-15-A	Lab Sample ID:	440-91011-15		
Client ID:	DG-AG15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

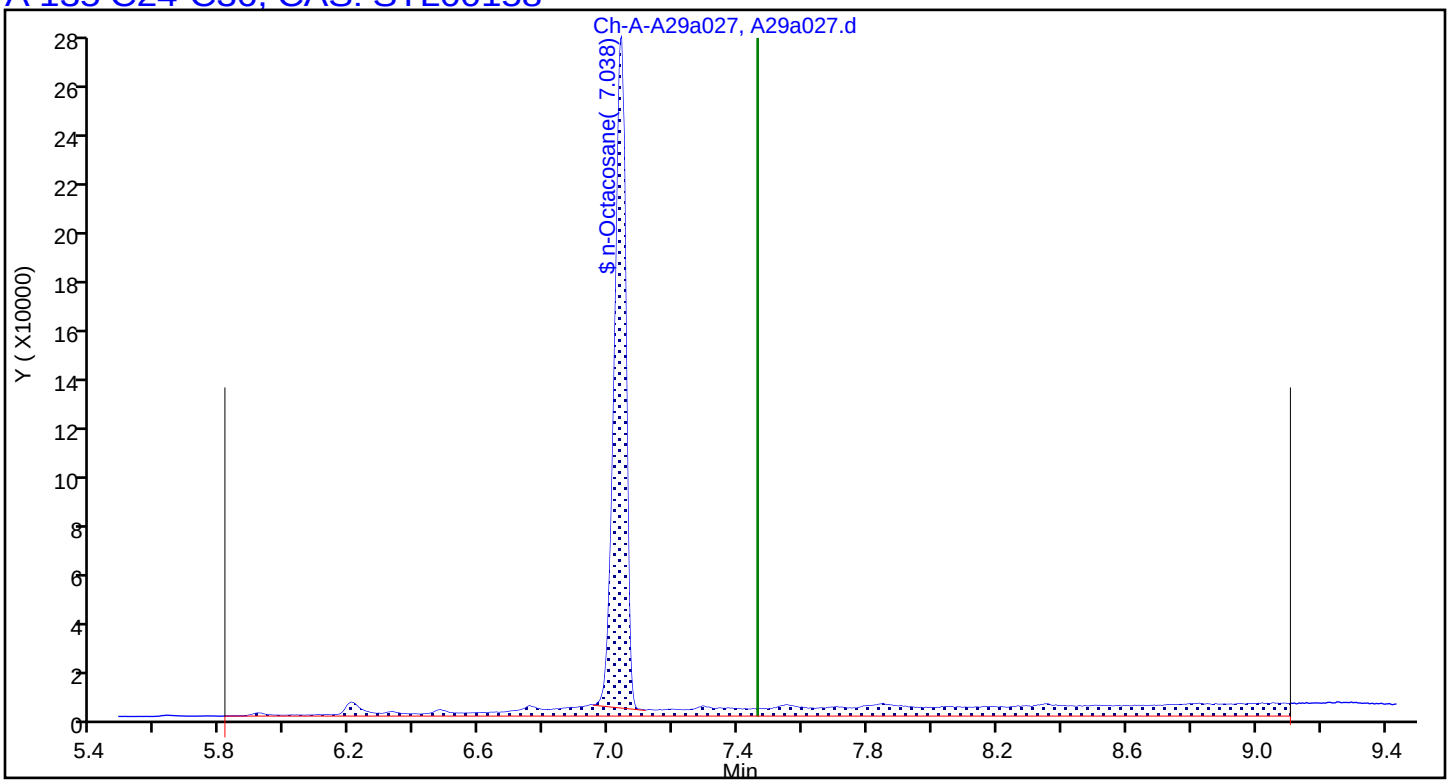


Report Date: 30-Jan-2019 12:04:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a027.d				
Injection Date:	29-Jan-2019 16:48:18	Instrument ID:	GC70A		
Lims ID:	720-91011-F-15-A	Lab Sample ID:	440-91011-15		
Client ID:	DG-AG15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a029.d				
Lims ID:	720-91011-F-16-A				
Client ID:	DG-AG15S-3.5-4				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 17:31:08	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:05:25	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:05:25		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		5415650	1495.2	
$ 127 n-Octacosane	7.043	7.037	0.006	470856	128.0	
A 135 C24-C36	7.460	(5.812-9.108)		2129655	588.0	

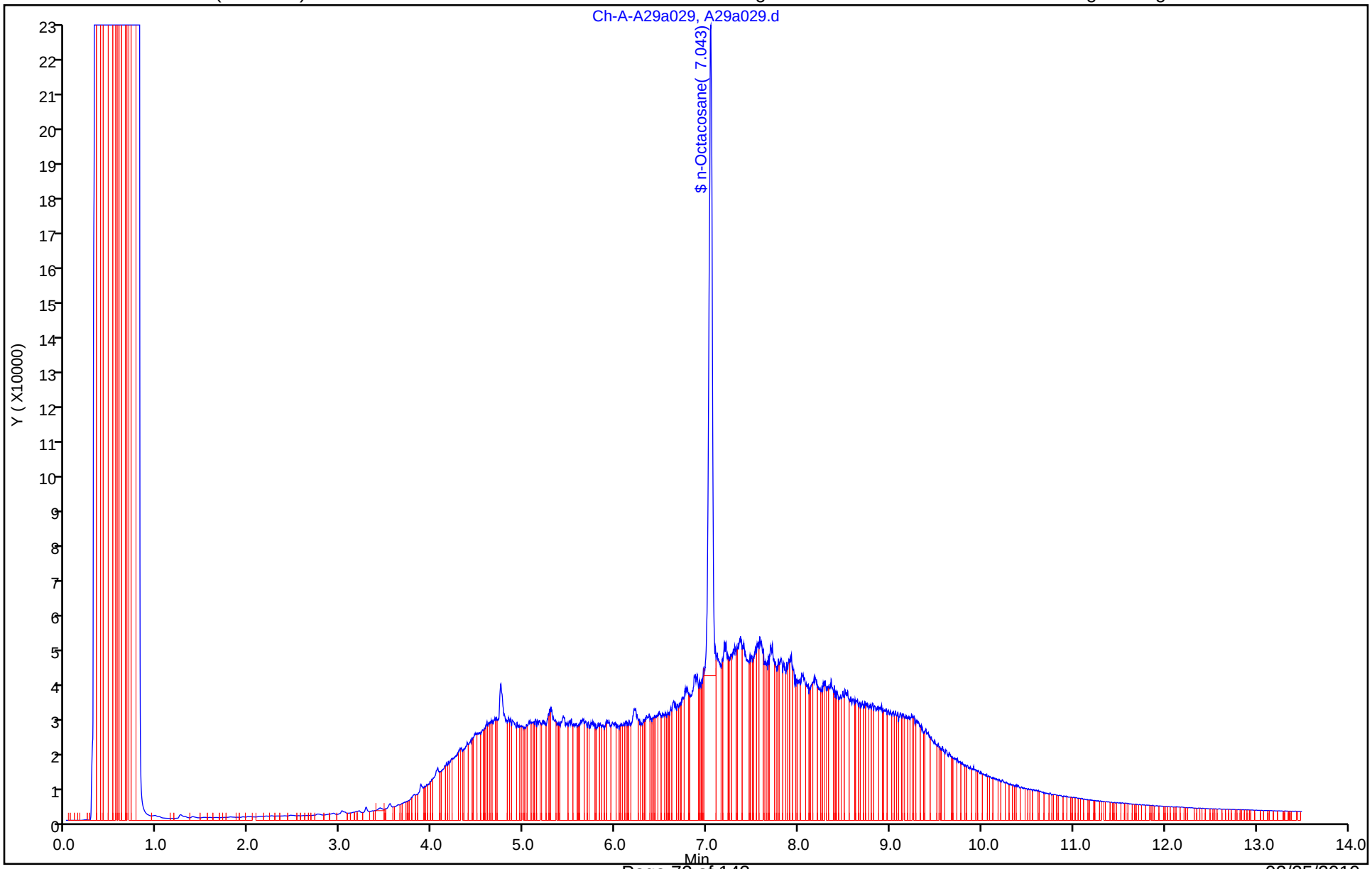
Report Date: 30-Jan-2019 12:05:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a029.d

Injection Date:	29-Jan-2019 17:31:08	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-16-A	Lab Sample ID:	440-91011-16	Worklist Smp#:	29
Client ID:	DG-AG15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a029.d				
Lims ID:	720-91011-F-16-A				
Client ID:	DG-AG15S-3.5-4				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 17:31:08	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:05:25	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:05:25

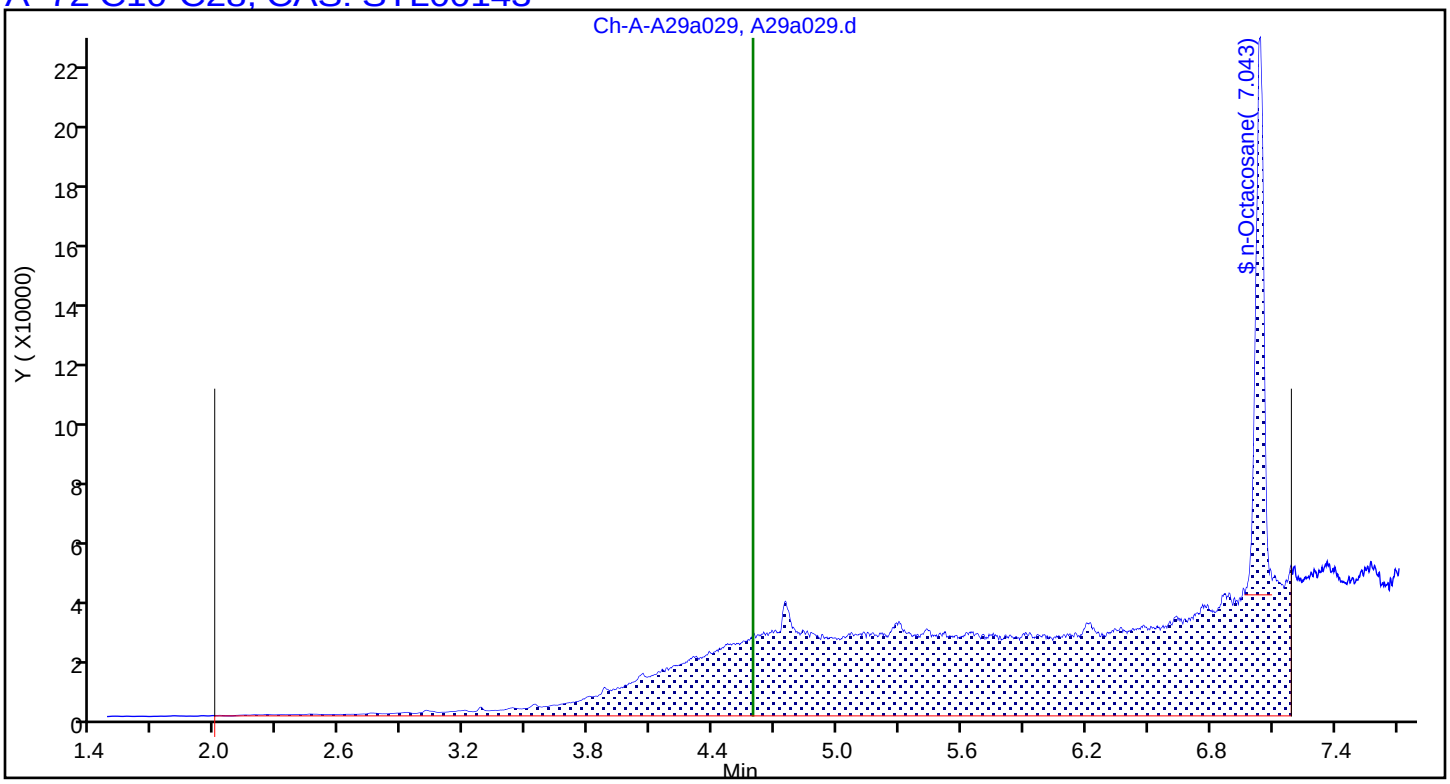
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	128.0	63.99
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 30-Jan-2019 12:05:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a029.d				
Injection Date:	29-Jan-2019 17:31:08	Instrument ID:	GC70A		
Lims ID:	720-91011-F-16-A	Lab Sample ID:	440-91011-16		
Client ID:	DG-AG15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



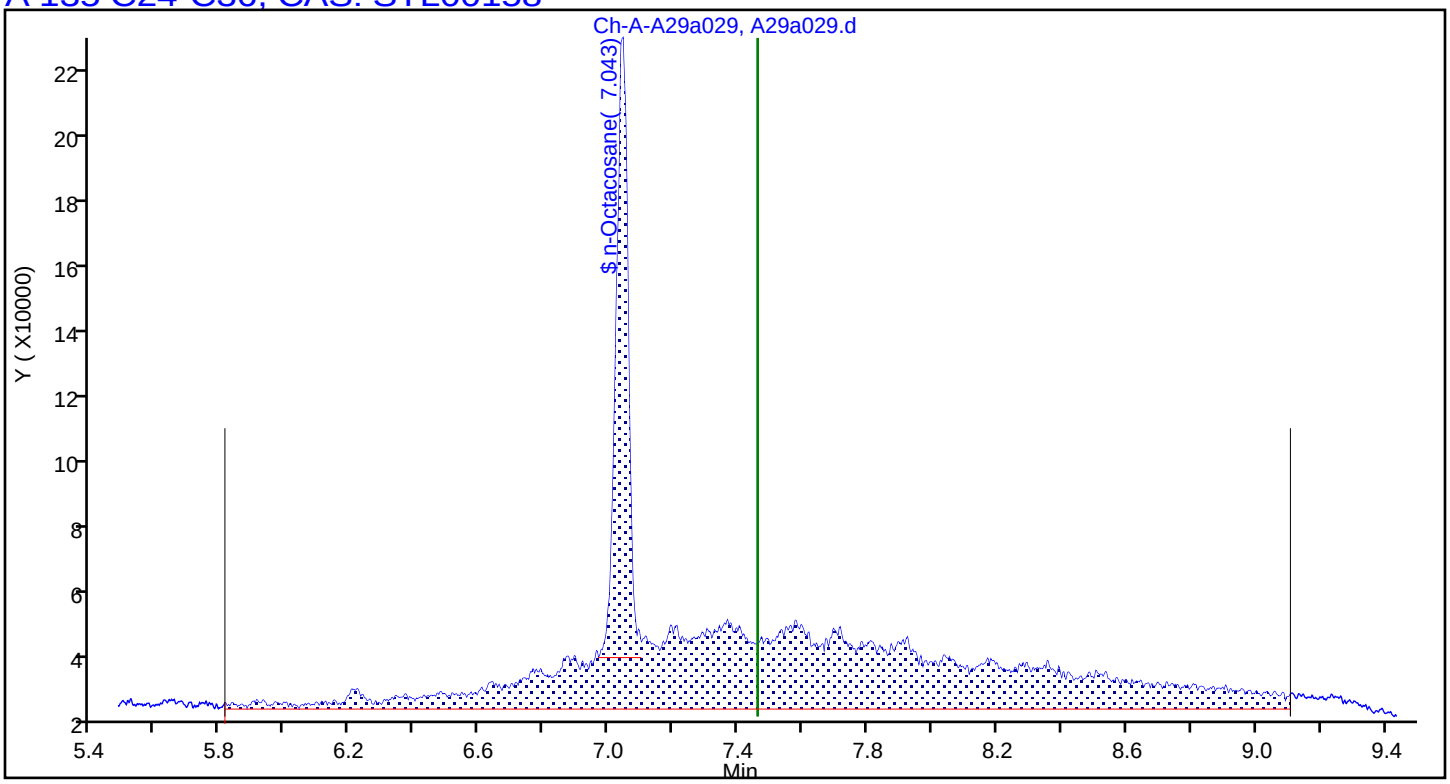
Report Date: 30-Jan-2019 12:05:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a029.d

Injection Date:	29-Jan-2019 17:31:08	Instrument ID:	GC70A		
Lims ID:	720-91011-F-16-A	Lab Sample ID:	440-91011-16		
Client ID:	DG-AG15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a030.d				
Lims ID:	720-91011-F-17-A				
Client ID:	DG-AG15S-8.5-9				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 17:52:33	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:05:58	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:05:58		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		1492155	412.0	
$ 127 n-Octacosane	7.037	7.037	0.000	573453	155.9	
A 135 C24-C36	7.460	(5.812-9.108)		300794	83.0	

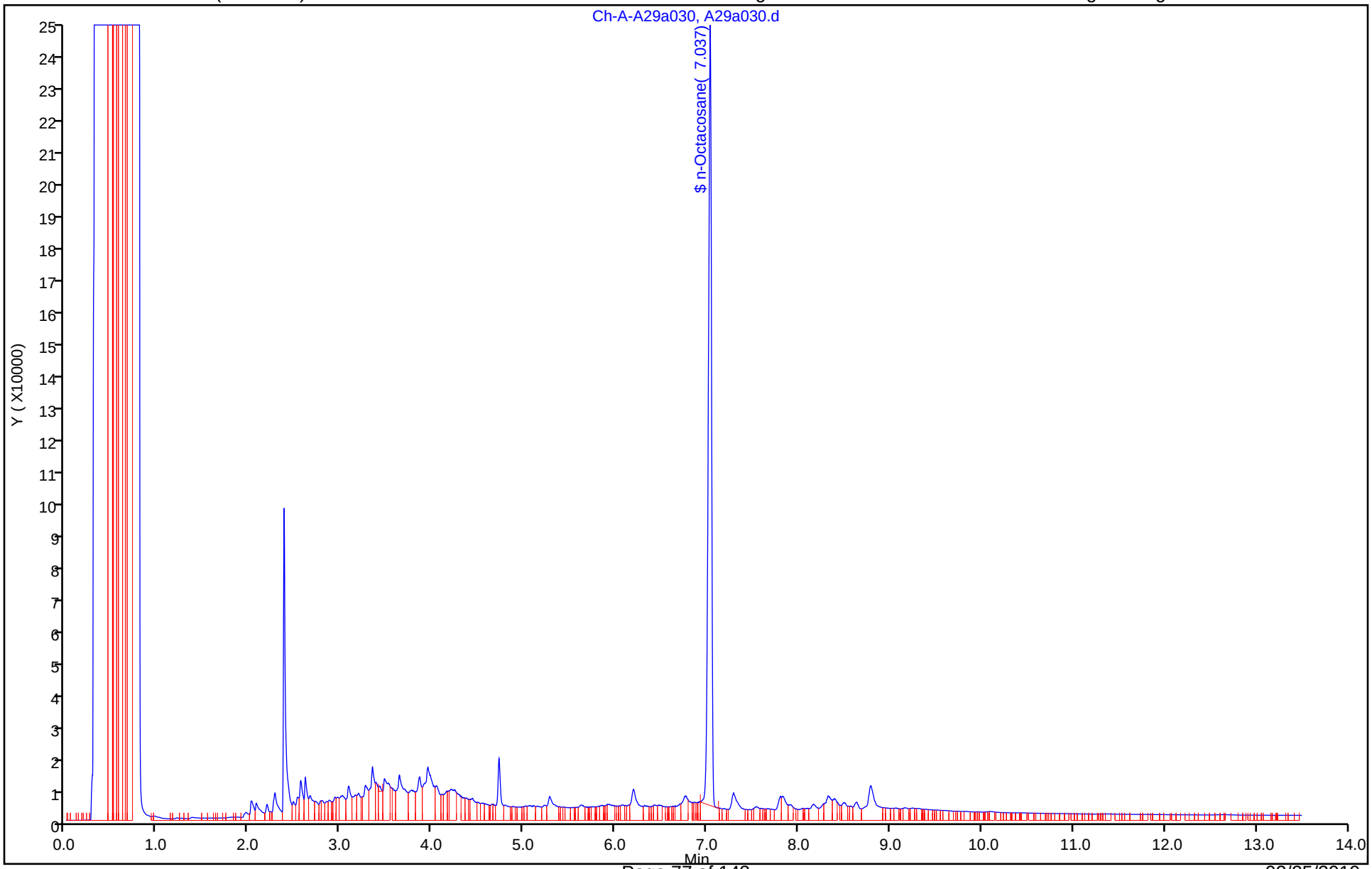
Report Date: 30-Jan-2019 12:05:58 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a030.d

Injection Date:	29-Jan-2019 17:52:33	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-17-A	Lab Sample ID:	440-91011-17	Worklist Smp#:	30
Client ID:	DG-AG15S-8.5-9				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a030.d				
Lims ID:	720-91011-F-17-A				
Client ID:	DG-AG15S-8.5-9				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 17:52:33	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:05:58	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:05:58

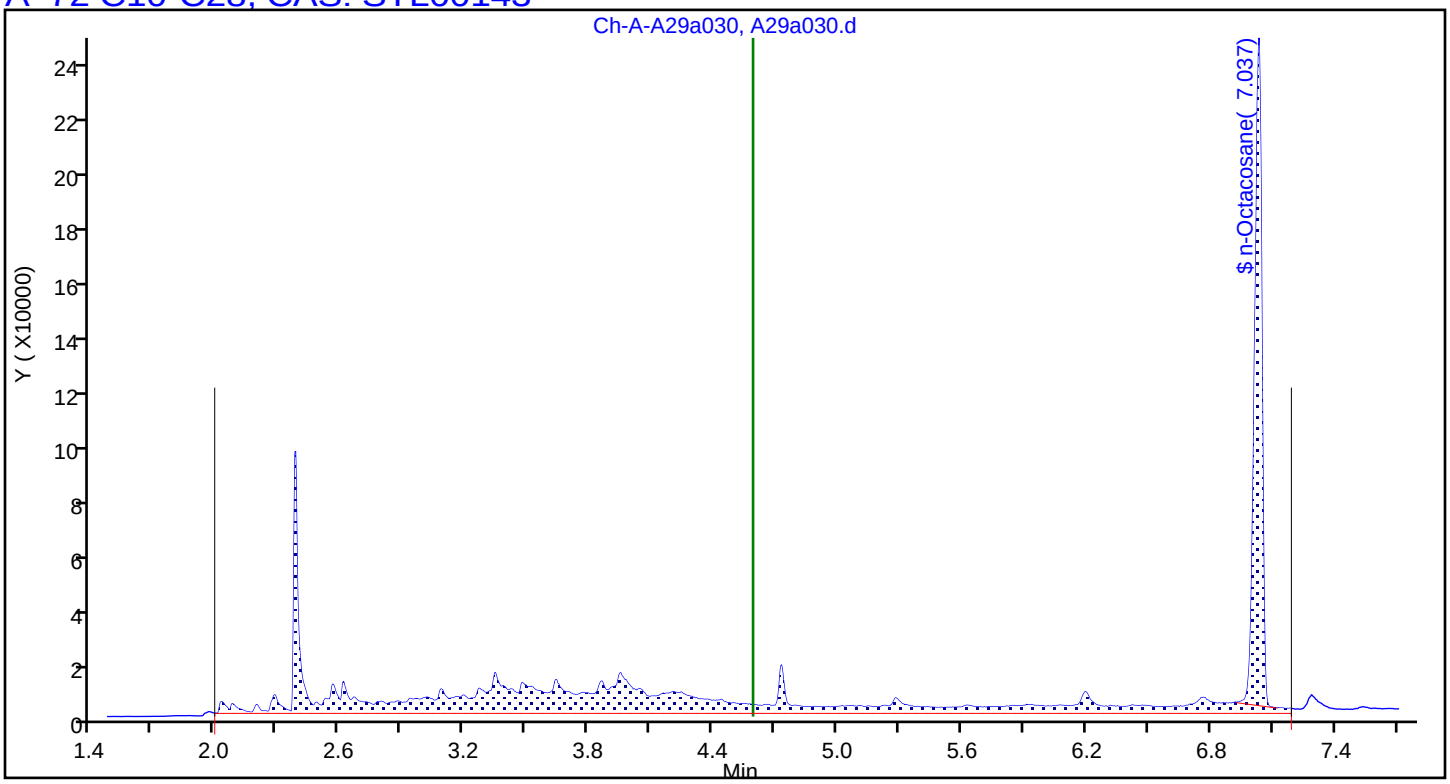
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	155.9	77.94
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 30-Jan-2019 12:05:58 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a030.d				
Injection Date:	29-Jan-2019 17:52:33	Instrument ID:	GC70A		
Lims ID:	720-91011-F-17-A	Lab Sample ID:	440-91011-17		
Client ID:	DG-AG15S-8.5-9				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

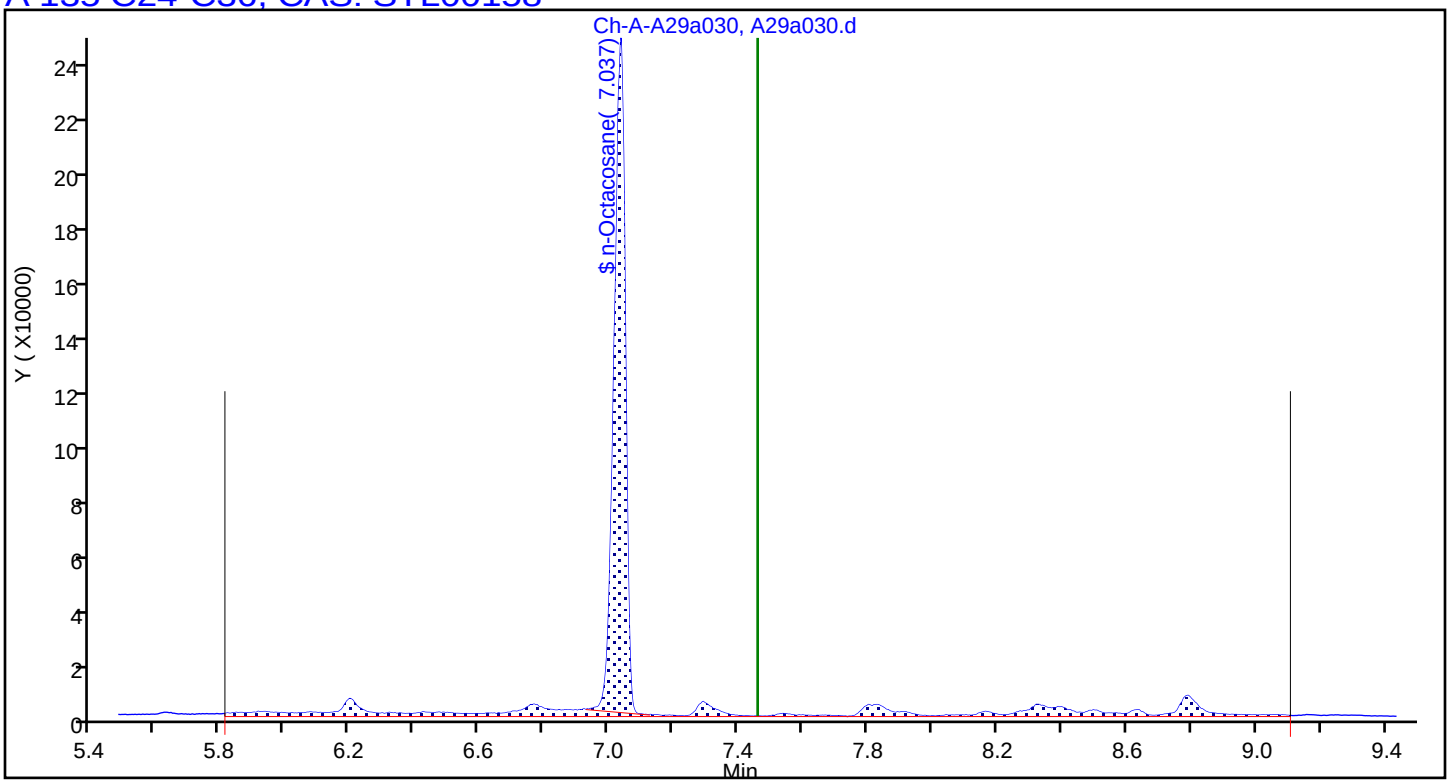


Report Date: 30-Jan-2019 12:05:58 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a030.d				
Injection Date:	29-Jan-2019 17:52:33	Instrument ID:	GC70A		
Lims ID:	720-91011-F-17-A	Lab Sample ID:	440-91011-17		
Client ID:	DG-AG15S-8.5-9				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a028.d				
Lims ID:	720-91011-F-18-A				
Client ID:	DG-AD17S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 17:09:49	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:05:09	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				
First Level Reviewer: barnettl		Date:	30-Jan-2019 12:05:09		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.593	(1.993-7.193)		4582009	1265.0	
$ 127 n-Octacosane	7.048	7.037	0.011	333631	90.7	
A 135 C24-C36	7.460	(5.812-9.108)		8025495	2215.7	

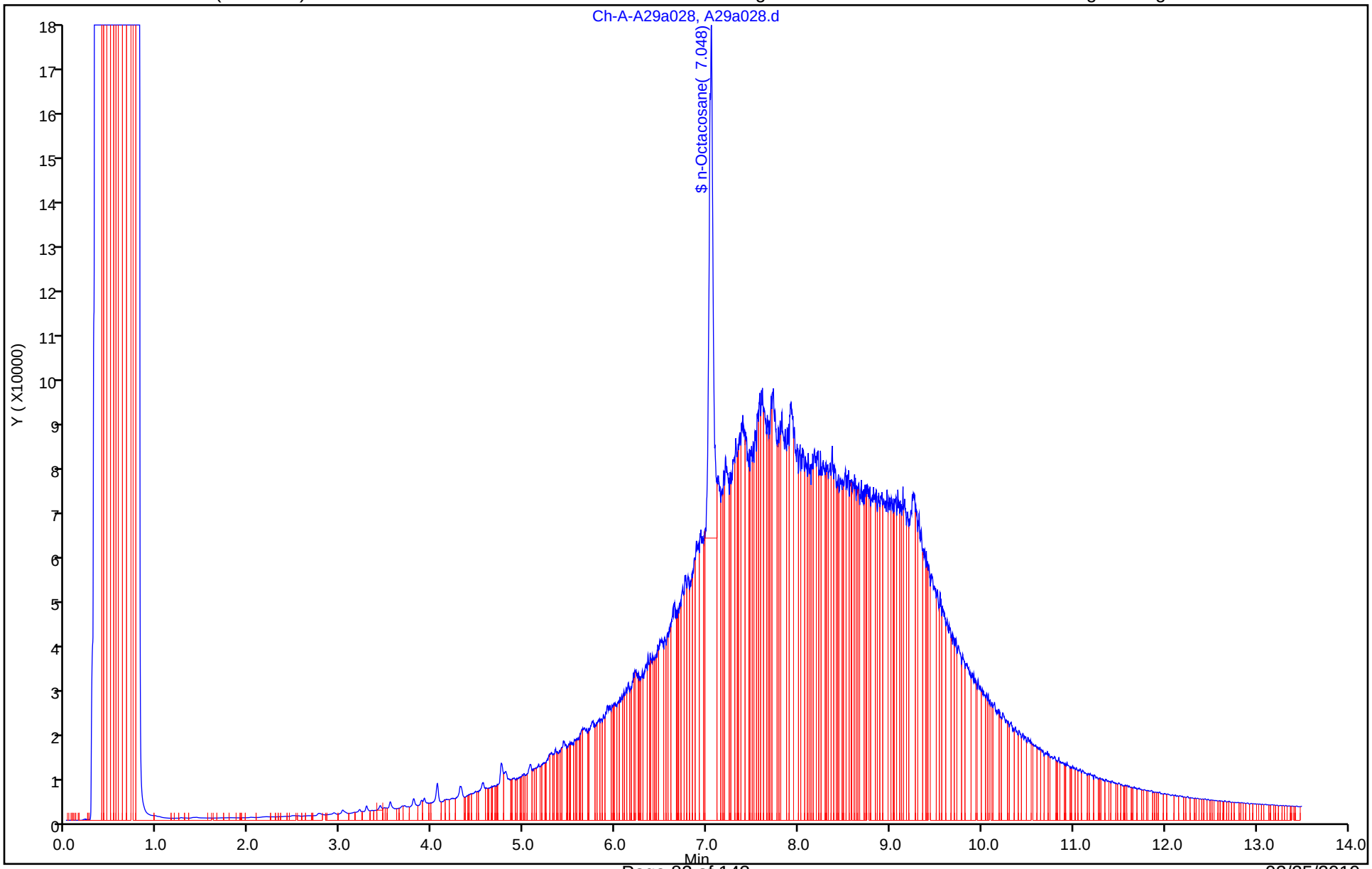
Report Date: 30-Jan-2019 12:05:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a028.d

Injection Date:	29-Jan-2019 17:09:49	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-18-A	Lab Sample ID:	440-91011-18	Worklist Smp#:	28
Client ID:	DG-AD17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a028.d				
Lims ID:	720-91011-F-18-A				
Client ID:	DG-AD17S-0.5-1				
Sample Type:	Client				
Inject. Date:	29-Jan-2019 17:09:49	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190129-114822.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	30-Jan-2019 12:05:09	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0303				

First Level Reviewer: barnettl Date: 30-Jan-2019 12:05:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	90.7	90.69
$ 178 n-Triacontane-d62	0.0	0	0.00

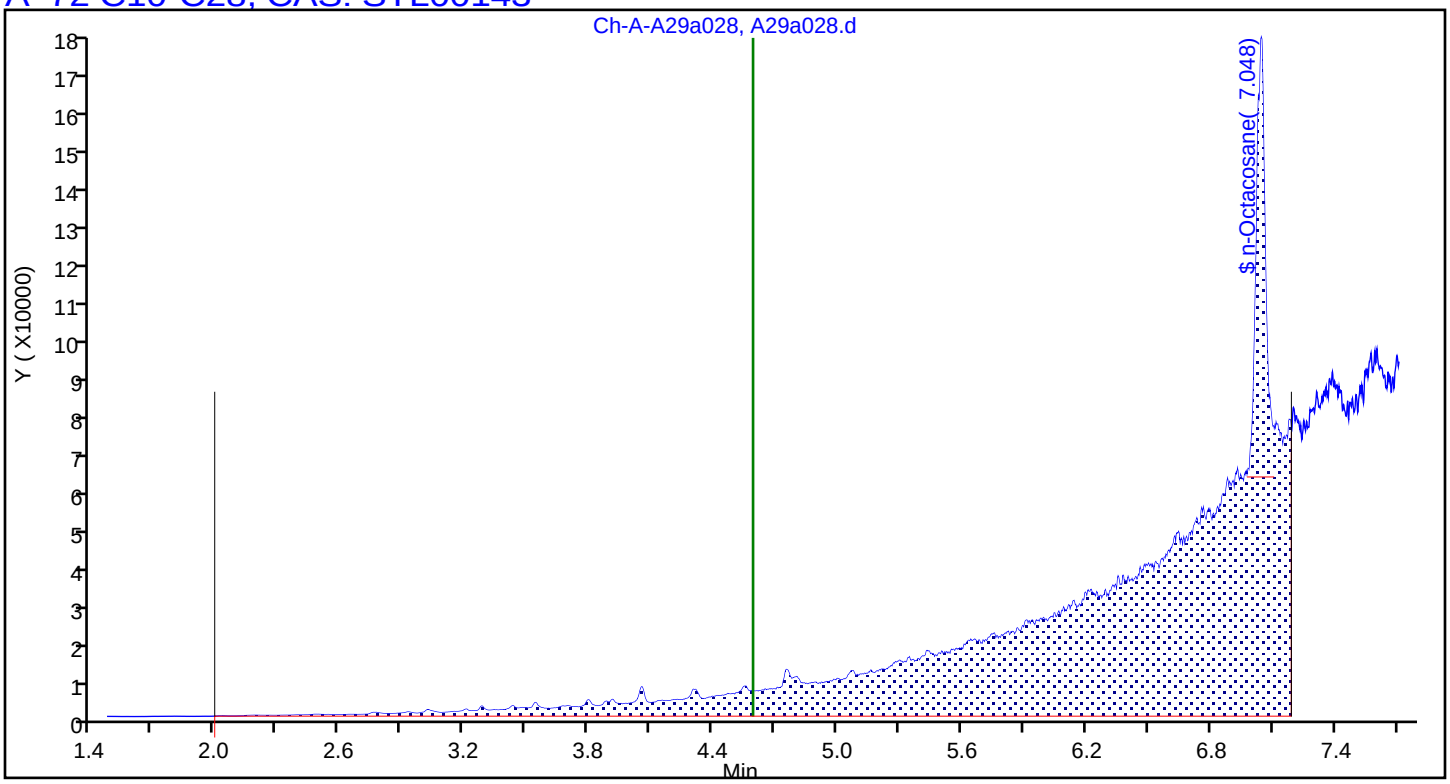
Report Date: 30-Jan-2019 12:05:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a028.d

Injection Date:	29-Jan-2019 17:09:49	Instrument ID:	GC70A		
Lims ID:	720-91011-F-18-A	Lab Sample ID:	440-91011-18		
Client ID:	DG-AD17S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



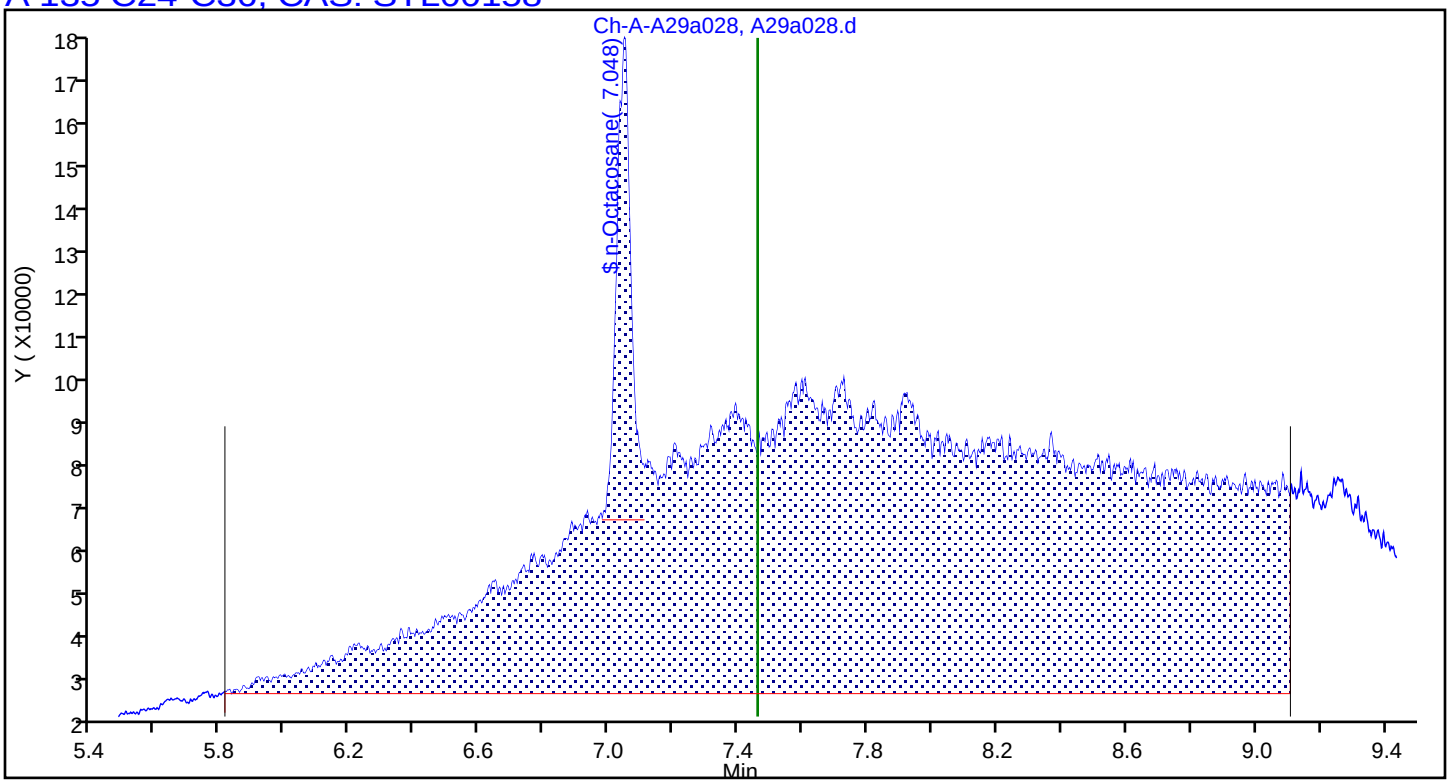
Report Date: 30-Jan-2019 12:05:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190129-114822.b\A29a028.d

Injection Date:	29-Jan-2019 17:09:49	Instrument ID:	GC70A		
Lims ID:	720-91011-F-18-A	Lab Sample ID:	440-91011-18		
Client ID:	DG-AD17S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a054.d				
Lims ID:	720-91011-F-19-D				
Client ID:	DG-AD17S-7-7.5				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 04:06:04	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 15:06:56	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 15:06:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.625	(2.015-7.235)		345928	95.5	
$ 127 n-Octacosane	7.050	7.055	-0.005	656171	178.4	
A 135 C24-C36	7.496	(5.868-9.123)		359828	99.3	

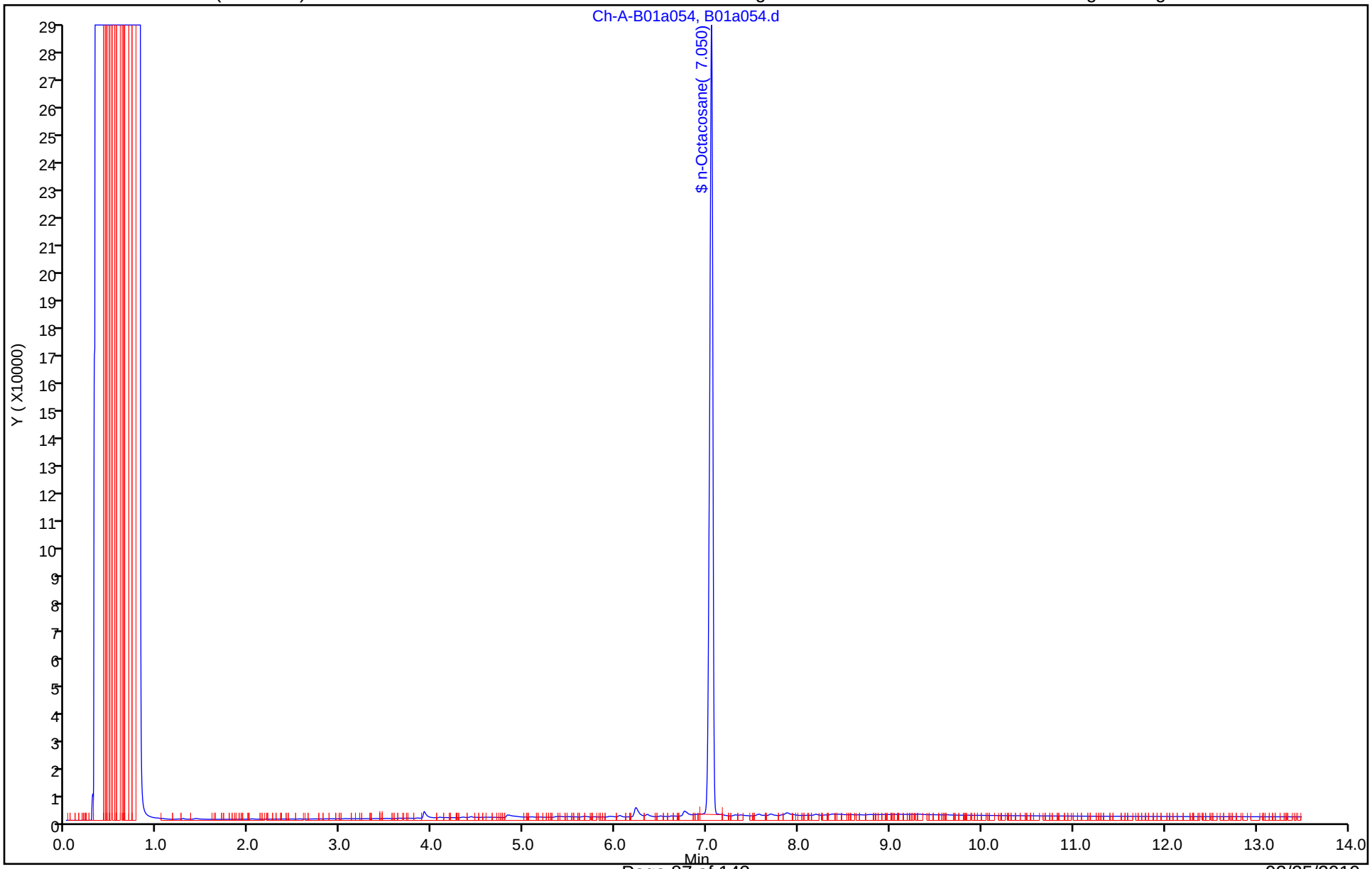
Report Date: 04-Feb-2019 15:06:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a054.d

Injection Date:	02-Feb-2019 04:06:04	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-F-19-D	Lab Sample ID:	440-91011-19	Worklist Smp#:	54
Client ID:	DG-AD17S-7-7.5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a054.d				
Lims ID:	720-91011-F-19-D				
Client ID:	DG-AD17S-7-7.5				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 04:06:04	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 15:06:56	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 15:06:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	178.4	89.18
$ 178 n-Triacontane-d62	0.0	0	0.00

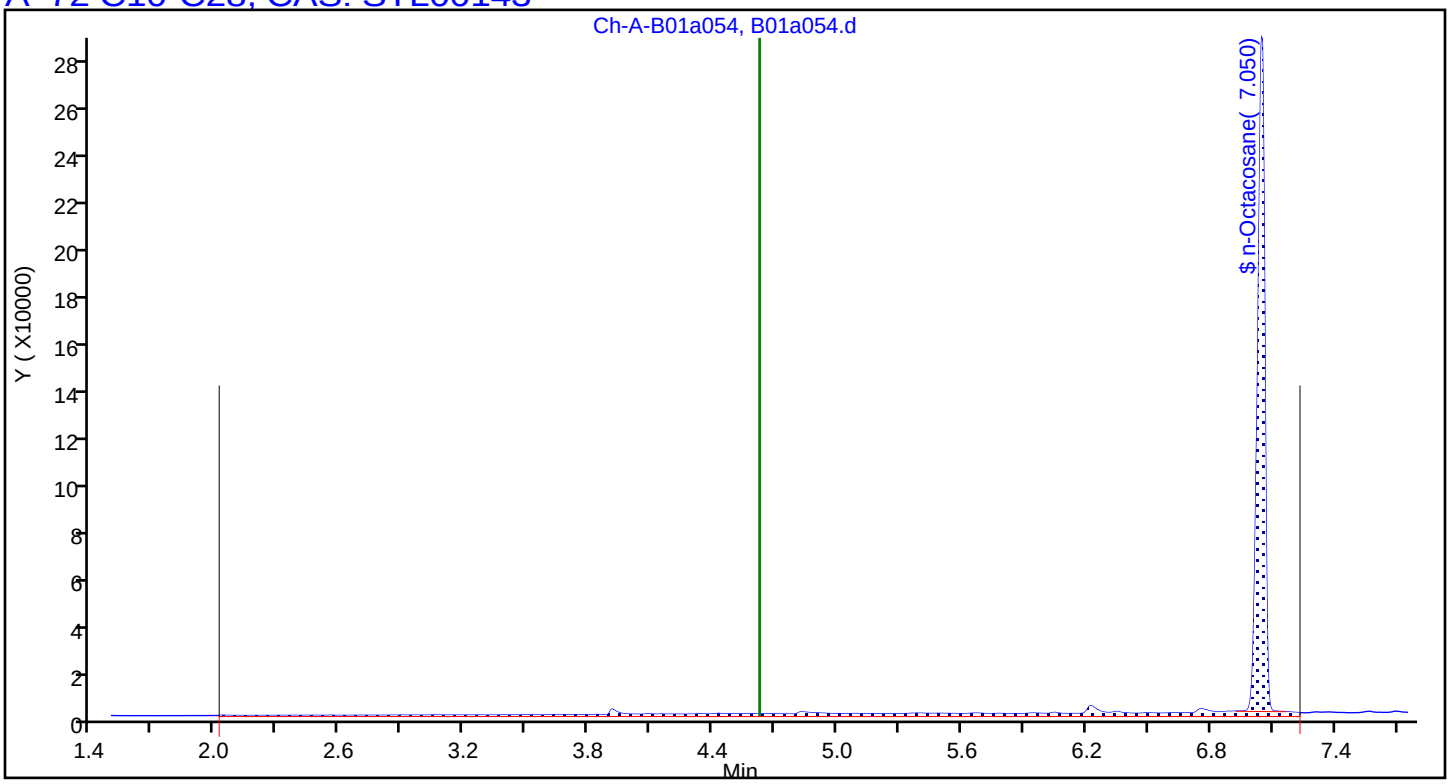
Report Date: 04-Feb-2019 15:06:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a054.d

Injection Date:	02-Feb-2019 04:06:04	Instrument ID:	GC70A		
Lims ID:	720-91011-F-19-D	Lab Sample ID:	440-91011-19		
Client ID:	DG-AD17S-7-7.5				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

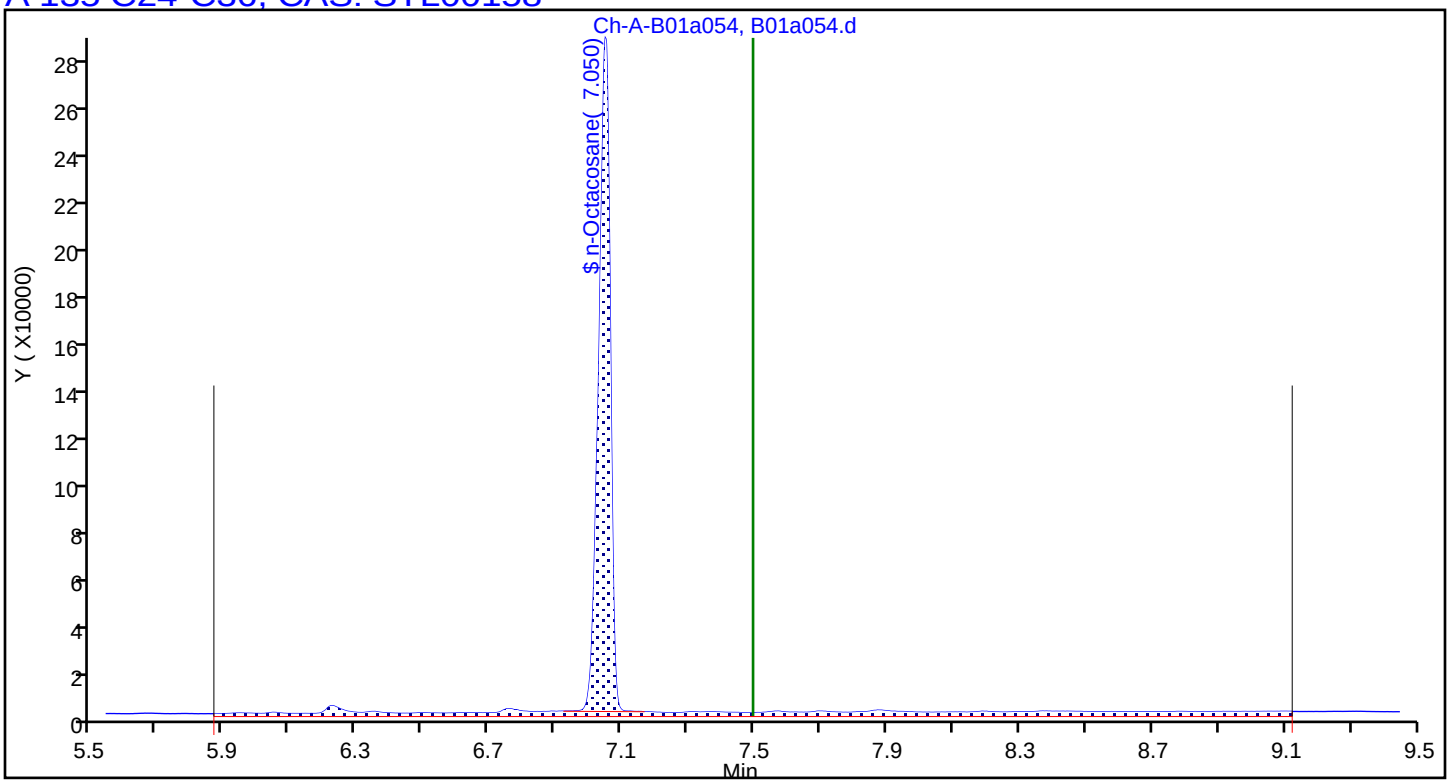


Report Date: 04-Feb-2019 15:06:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190201-114976.b\B01a054.d				
Injection Date:	02-Feb-2019 04:06:04	Instrument ID:	GC70A		
Lims ID:	720-91011-F-19-D	Lab Sample ID:	440-91011-19		
Client ID:	DG-AD17S-7-7.5				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190130-114894.b\A30a043.d				
Lims ID:	720-91011-E-20-C				
Client ID:	DUP-125				
Sample Type:	Client				
Inject. Date:	31-Jan-2019 00:17:41	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190130-114894.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:16:24	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				
First Level Reviewer: doanm		Date:	31-Jan-2019 09:16:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.578	(1.872-7.283)		5147758	1558.1	
$ 127 n-Octacosane	7.115	7.097	0.018	451198	138.5	
A 136 C24-C36	7.543	(5.897-9.188)		5422304	1641.2	

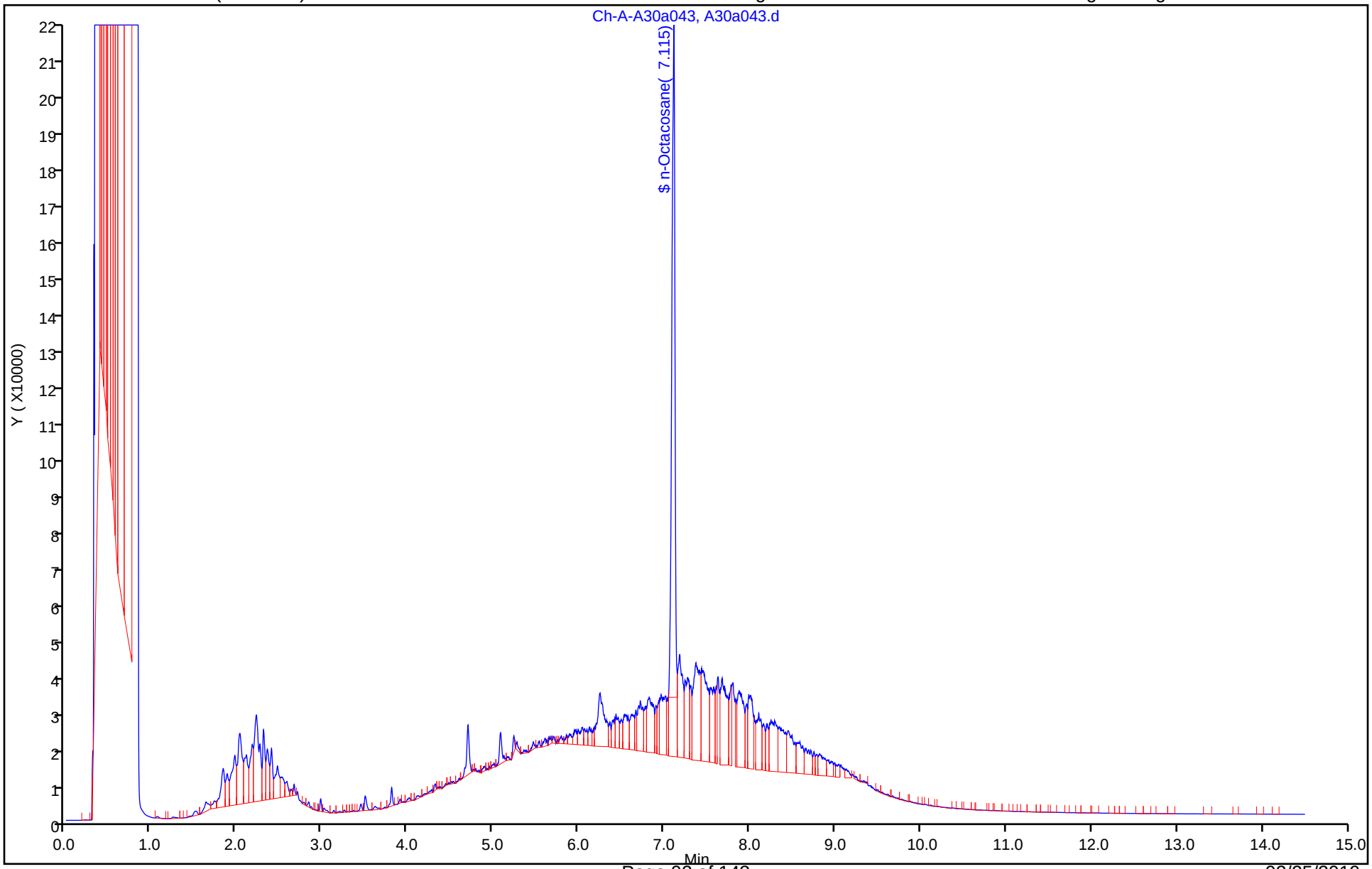
Report Date: 31-Jan-2019 09:16:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190130-114894.b\A30a043.d

Injection Date:	31-Jan-2019 00:17:41	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-E-20-C	Lab Sample ID:	440-91011-20	Worklist Smp#:	43
Client ID:	DUP-125				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190130-114894.b\A30a043.d				
Lims ID:	720-91011-E-20-C				
Client ID:	DUP-125				
Sample Type:	Client				
Inject. Date:	31-Jan-2019 00:17:41	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190130-114894.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:16:24	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				

First Level Reviewer: doanm Date: 31-Jan-2019 09:16:24

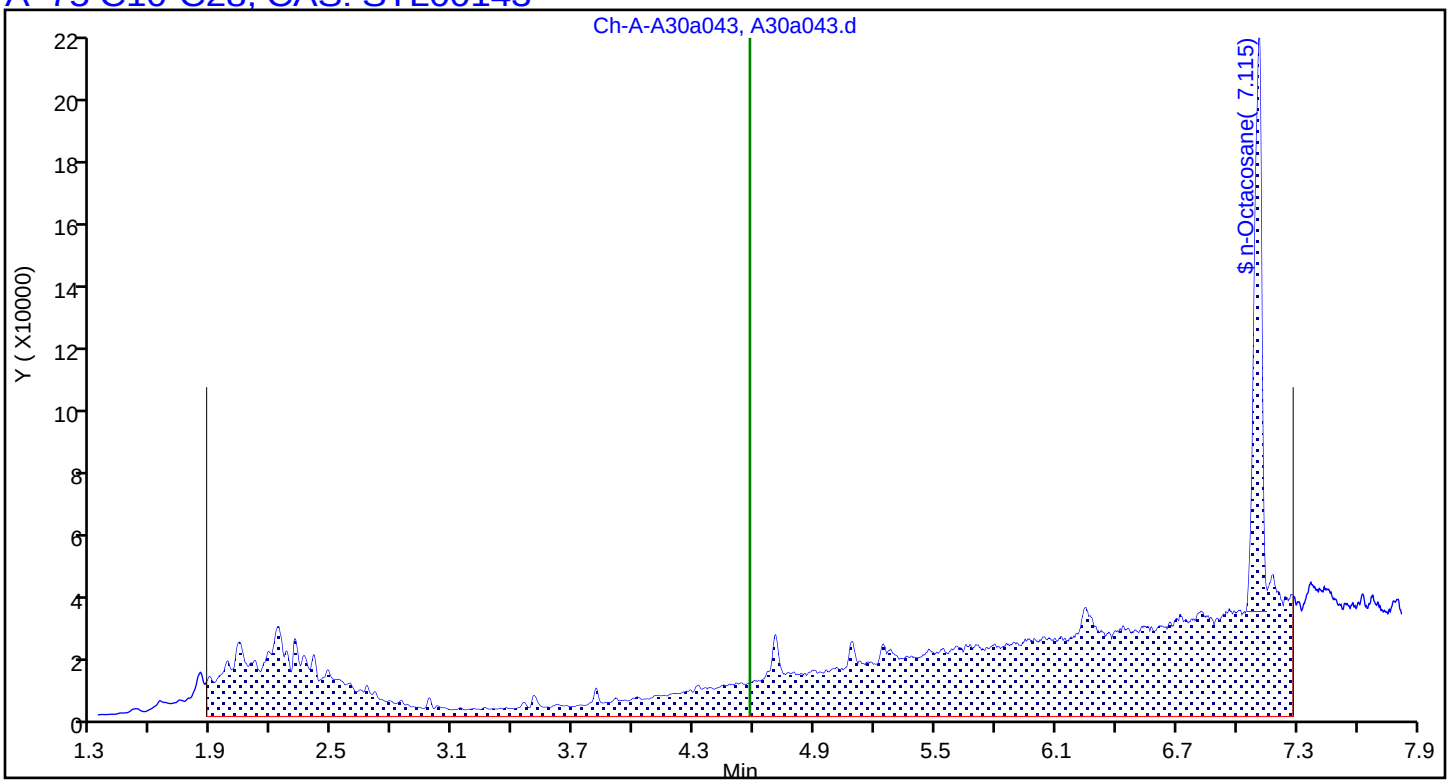
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	138.5	69.24

Report Date: 31-Jan-2019 09:16:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190130-114894.b\A30a043.d				
Injection Date:	31-Jan-2019 00:17:41	Instrument ID:	GC69A		
Lims ID:	720-91011-E-20-C	Lab Sample ID:	440-91011-20		
Client ID:	DUP-125				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

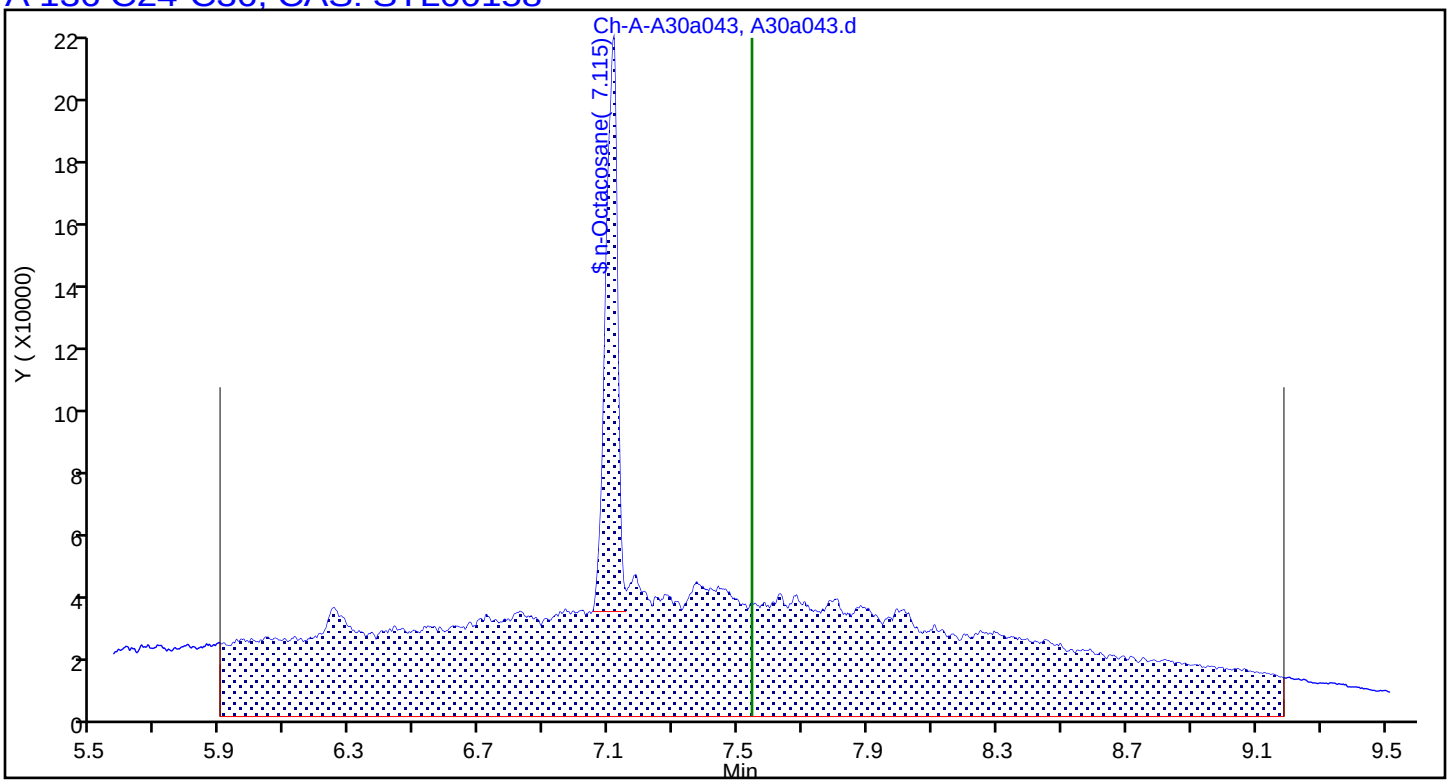


Report Date: 31-Jan-2019 09:16:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190130-114894.b\A30a043.d				
Injection Date:	31-Jan-2019 00:17:41	Instrument ID:	GC69A		
Lims ID:	720-91011-E-20-C	Lab Sample ID:	440-91011-20		
Client ID:	DUP-125				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a022.d
Lims ID: 720-91011-E-21-H
Client ID: DG-AD17S-3.5-4
Sample Type: Client
Inject. Date: 30-Jan-2019 17:14:09 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 31-Jan-2019 09:22:18 Calib Date: 28-Dec-2018 09:34:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0321

First Level Reviewer: doanm Date: 31-Jan-2019 09:22:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 197 C7 Range	0.611	(0.150-1.072)		28597164	7895.1	
A 3 C8 Range	1.297	(1.072-1.522)		1565	0.4321	
A 4 C8-C9	1.532	(1.072-1.992)		37014	10.2	
A 7 C8-C10	1.702	(1.072-2.332)		171312	47.3	
A 8 C9 Range	1.757	(1.522-1.992)		32065	8.85	
A 22 C7-C14	1.825	(0.193-3.457)		29014744	8010.4	E
A 9 C8-C11	1.865	(1.072-2.658)		293527	81.0	
A 10 C9-C10	1.927	(1.522-2.332)		163915	45.3	
A 12 C10 Range	2.162	(1.992-2.332)		64978	17.9	
A 13 C9-C12	2.234	(1.522-2.947)		331607	91.6	
A 16 C10-C11	2.325	(1.992-2.658)		120593	33.3	
A 18 Stoddard Solvent	2.365	(1.522-3.208)		345999	95.5	
A 196 C9-C13	2.365	(1.522-3.208)		345999	95.5	
A 17 Mineral Spirits	2.365	(1.522-3.208)		345999	95.5	
A 15 C8-C15	2.380	(1.072-3.688)		382408	105.6	
A 20 C10-C12	2.469	(1.992-2.947)		203278	56.1	
A 21 C8-C16	2.478	(1.072-3.883)		394283	108.9	
A 23 C11 Range	2.495	(2.332-2.658)		34407	9.50	
A 24 C11-C12	2.639	(2.332-2.947)		105700	29.2	
A 30 C9-C16	2.703	(1.522-3.883)		375714	103.7	
A 26 Jet Fuel JP-8	2.725	(1.072-4.378)		441858	0	
A 27 C8-C18 DRO	2.725	(1.072-4.378)		441858	122.0	
A 29 C8-C18	2.725	(1.072-4.378)		441858	111.0	
A 192 C12 Range	2.803	(2.658-2.947)		18764	5.18	
A 31 C9 - C17	2.815	(1.522-4.108)		393825	108.7	
A 32 C12-C13	2.933	(2.658-3.208)		42552	11.7	
A 33 C9 - C18	2.950	(1.522-4.378)		419725	115.9	
34 C13	2.938	2.985	-0.047	10717	2.96	
A 35 C12-C14	3.058	(2.658-3.457)		45809	12.6	
A 194 C13 Range	3.078	(2.947-3.208)		5034	1.39	
A 199 C10-C18	3.185	(1.992-4.378)		311477	NC	
A 36 C13-C14	3.202	(2.947-3.457)		7184	1.98	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 193 C14 Range	3.208	(3.172-3.243)		158	0.0436	
39 n-Tetradecane	3.458	3.260	0.198	673	0.1858	
A 38 C13-C15	3.318	(2.947-3.688)		9961	2.75	
A 37 C8-C22	3.318	(1.072-5.563)		739673	204.2	
A 40 C14-C15	3.448	(3.208-3.688)		3922	1.08	
A 44 C14-C16	3.546	(3.208-3.883)		8169	2.26	
A 43 C8-C24	3.593	(1.072-6.113)		927720	256.1	
A 45 C10-C21	3.628	(1.992-5.265)		479390	132.4	
A 46 C15-C16	3.670	(3.457-3.883)		6512	1.80	
A 47 C10-C22	3.778	(1.992-5.563)		562935	155.4	
A 48 C9-C24	3.818	(1.522-6.113)		893095	246.6	
A 51 C16-C17	3.898	(3.688-4.108)		10640	2.94	
A 52 C10-C23	3.903	(1.992-5.815)		636593	175.8	
A 53 C11-C22	3.948	(2.332-5.563)		441938	122.0	
A 54 C12-C21	3.962	(2.658-5.265)		248957	68.7	
A 55 C9-C25	3.966	(1.522-6.410)		1016498	280.6	
A 56 C10-C24	4.053	(1.992-6.113)		729466	201.4	
A 57 C12-C22	4.111	(2.658-5.563)		332502	91.8	
A 59 C8-C28	4.128	(1.072-7.185)		1423298	392.9	
A 61 C17-C18	4.131	(3.883-4.378)		17697	4.89	
A 63 C10-C25	4.201	(1.992-6.410)		843400	232.8	
A 62 C15-C20	4.221	(3.457-4.985)		137798	38.0	
A 14 C12-C23	4.237	(2.658-5.815)		406160	112.1	
A 64 C13-C22	4.255	(2.947-5.563)		293877	81.1	
A 66 C13-C23	4.381	(2.947-5.815)		367535	101.5	
A 67 C12-C24	4.386	(2.658-6.113)		499033	137.8	
A 69 C8-C30	4.388	(1.072-7.705)		1682774	464.6	
A 68 C18-C19	4.435	(4.108-4.762)		34584	9.55	
71 C19	4.565	4.558	0.007	3260	0.9000	
A 60 Diesel	4.588	(1.992-7.185)		1183120	326.6	
A 72 C10-C28	4.588	(1.992-7.185)		1183120	326.6	
A 70 C16-C22	4.626	(3.688-5.563)		263665	72.8	
A 75 C7-C36	4.628	(0.150-9.105)		31077717	8580.0	E
A 73 C8-C32	4.642	(1.072-8.212)		1919617	530.0	
A 74 C19-C20	4.682	(4.378-4.985)		55694	15.4	
A 77 C10-C30	4.848	(1.992-7.705)		1422253	392.7	
A 78 C8-C34	4.858	(1.072-8.645)		2109502	582.4	
A 195 C13-C27	4.918	(2.947-6.890)		769993	212.6	
A 79 C20-C21	5.013	(4.762-5.265)		37631	10.4	
A 81 C13-C28	5.066	(2.947-7.185)		914061	252.4	
A 80 C8-C36	5.088	(1.072-9.105)		2312816	638.5	
A 83 C10-C32	5.102	(1.992-8.212)		1639277	452.6	
A 85 C21-C22	5.274	(4.985-5.563)		31509	8.70	
A 84 C20-C23	5.288	(4.762-5.815)		101708	28.1	
A 86 C13-C30	5.326	(2.947-7.705)		1153195	318.4	
A 88 C22-C23	5.540	(5.265-5.815)		16886	4.66	
A 89 C10-C36	5.548	(1.992-9.105)		1997528	551.5	
A 92 C8-C40	5.563	(1.072-10.053)		2671233	737.5	
A 90 C13-C32	5.579	(2.947-8.212)		1370218	378.3	
A 198 C18-C28	5.647	(4.108-7.185)		758227	209.3	
A 91 C12-C34	5.652	(2.658-8.645)		1581776	436.7	
A 96 C9-C40	5.788	(1.522-10.053)		2608239	720.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 94 C23-C24	5.838	(5.563-6.113)		20473	5.65	
A 95 C18-C30	5.907	(4.108-7.705)		975270	269.3	
A 101 C10-C40	6.023	(1.992-10.053)		2318846	640.2	
A 99 C13-C36	6.026	(2.947-9.105)		1728469	477.2	
A 100 C17-C32	6.048	(3.883-8.212)		1264076	349.0	
A 98 C24-C25	6.113	(5.815-6.410)		33590	9.27	
102 C25	6.212	6.200	0.012	61504	17.0	
A 103 C21-C30	6.345	(4.985-7.705)		462922	127.8	
A 111 C8-C44	6.351	(1.072-11.630)		2973740	821.0	
A 104 C24-C27	6.353	(5.815-6.890)		89503	24.7	
A 106 C25-C26	6.394	(6.113-6.675)		34122	9.42	
A 105 C16-C36	6.397	(3.688-9.105)		1660008	458.3	
A 107 C20-C32	6.487	(4.762-8.212)		698588	192.9	
A 109 C17-C36	6.494	(3.883-9.105)		1603353	442.7	
A 113 C13-C40	6.500	(2.947-10.053)		2049787	565.9	
A 112 C13 - C40	6.500	(2.947-10.053)		2049787	565.9	
A 108 C18-C36	6.607	(4.108-9.105)		1491073	411.7	
A 114 Hydraulic Fluid	6.607	(4.108-9.105)		1491073	411.7	
A 116 C25-C28	6.649	(6.113-7.185)		112092	30.9	
A 115 C26-C27	6.650	(6.410-6.890)		26998	7.45	
A 117 C22-C32	6.738	(5.265-8.212)		408132	112.7	
118 C27	6.747	6.757	-0.010	13495	3.73	
A 126 C10-C44	6.811	(1.992-11.630)		2559674	706.7	
A 121 C16-C40	6.856	(3.688-10.023)		1964150	542.3	
A 120 C23-C32	6.888	(5.563-8.212)		373049	103.0	
A 122 C27-C28	6.930	(6.675-7.185)		46634	12.9	
A 210 C20-C36	6.933	(4.762-9.105)		905580	250.0	
A 123 C24-C32	7.013	(5.815-8.212)		304965	84.2	
$ 127 n-Octacosane	7.043	7.032	0.011	608624	165.4	
A 124 C22-C35	7.053	(5.265-8.840)		498062	137.5	
A 130 C18-C40	7.081	(4.108-10.053)		1772105	489.2	
A 125 C23-C34	7.104	(5.563-8.645)		430906	119.0	
A 129 C28-C29	7.149	(6.890-7.408)		33456	9.24	
A 128 C23-C35	7.202	(5.563-8.840)		456420	126.0	
A 133 C19-C40	7.216	(4.378-10.053)		1551779	428.4	
A 139 C13-C44	7.288	(2.947-11.630)		2290616	632.4	
132 C29	7.300	7.293	0.007	14753	4.07	
A 131 C23-C36	7.334	(5.563-9.105)		494067	136.4	
A 137 C20-C40	7.408	(4.762-10.053)		1066326	294.4	
A 136 C28-C31	7.413	(6.890-7.937)		71597	19.8	
A 138 C29-C30	7.445	(7.185-7.705)		24664	6.81	
A 135 C24-C36	7.460	(5.815-9.105)		403149	111.3	
A 140 C25-C36	7.609	(6.113-9.105)		314557	86.8	
A 142 C30-C31	7.673	(7.408-7.937)		31671	8.74	
A 143 C29-C32	7.698	(7.185-8.212)		72634	20.1	
A 144 C17-C44	7.742	(3.883-11.600)		2109692	582.4	
145 C31	7.803	7.807	-0.004	20585	5.68	
A 146 C23-C40	7.808	(5.563-10.053)		730574	201.7	
A 148 C24-C40	7.934	(5.815-10.053)		714386	197.2	
A 147 C31-C32	7.958	(7.705-8.212)		27752	7.66	
A 200 C28-C36	7.998	(6.890-9.105)		144863	40.0	
A 150 C25-C40	8.083	(6.113-10.053)		689641	190.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
152 C33	8.300	8.290	0.010	9148	2.53	
A 153 C32-C35	8.388	(7.937-8.840)		28421	7.85	
A 154 C33-C34	8.428	(8.212-8.645)		12356	3.41	
A 156 C32-C36	8.521	(7.937-9.105)		39102	10.8	
A 161 C23-C44	8.597	(5.563-11.630)		1449282	400.1	
A 159 C29-C40	8.604	(7.185-10.023)		459188	126.8	
A 158 C33-C36	8.658	(8.212-9.105)		30112	8.31	
A 162 C24-C44	8.723	(5.815-11.630)		1398335	386.1	
A 169 C35-C36	8.875	(8.645-9.105)		16351	4.51	
A 164 C31-C40	8.879	(7.705-10.053)		360326	99.5	
A 166 C33-C40	9.133	(8.212-10.053)		259006	71.5	
A 168 C36-C39	9.313	(8.840-9.787)		91312	25.2	
A 171 C35-C40	9.344	(8.645-10.043)		174507	48.2	
A 119 C29-C44	9.393	(7.185-11.600)		975331	269.3	
170 C38	9.383	9.395	-0.012	20830	5.75	
A 172 C36-C40	9.447	(8.840-10.053)		152261	42.0	
A 174 C37-C40	9.579	(9.105-10.053)		104756	28.9	
173 C39	9.652	9.635	0.017	25570	7.06	
A 175 C39-C40	9.774	(9.495-10.053)		36106	9.97	
176 C40	9.908	9.917	-0.009	9181	2.53	
A 134 C33-C44	9.921	(8.212-11.630)		611927	168.9	
A 167 C37-C38	9.938	(9.748-10.128)		13890	3.83	
A 151 C40-C44	10.708	(9.787-11.630)		144870	40.0	
A 155 C41-C44	10.827	(10.023-11.630)		103101	28.5	
$ 178 n-Triacontane-d62	13.272	13.288	-0.016	4763	NC	
S 179 HC Dist (C10-C44)					186.7	
S 182 HC Dist (C8-C44)					196.9	
S 186 HC Dist (C10-C40)					158.3	
S 187 HC Dist (C10-C36)					119.2	
S 188 HC Dist (C13-C44)					125.4	
S 189 HC Dist (C13-C40)					96.9	
S 191 HC Dist (C13-C28)					60.7	
S 190 HC Dist (C8-C40)					168.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

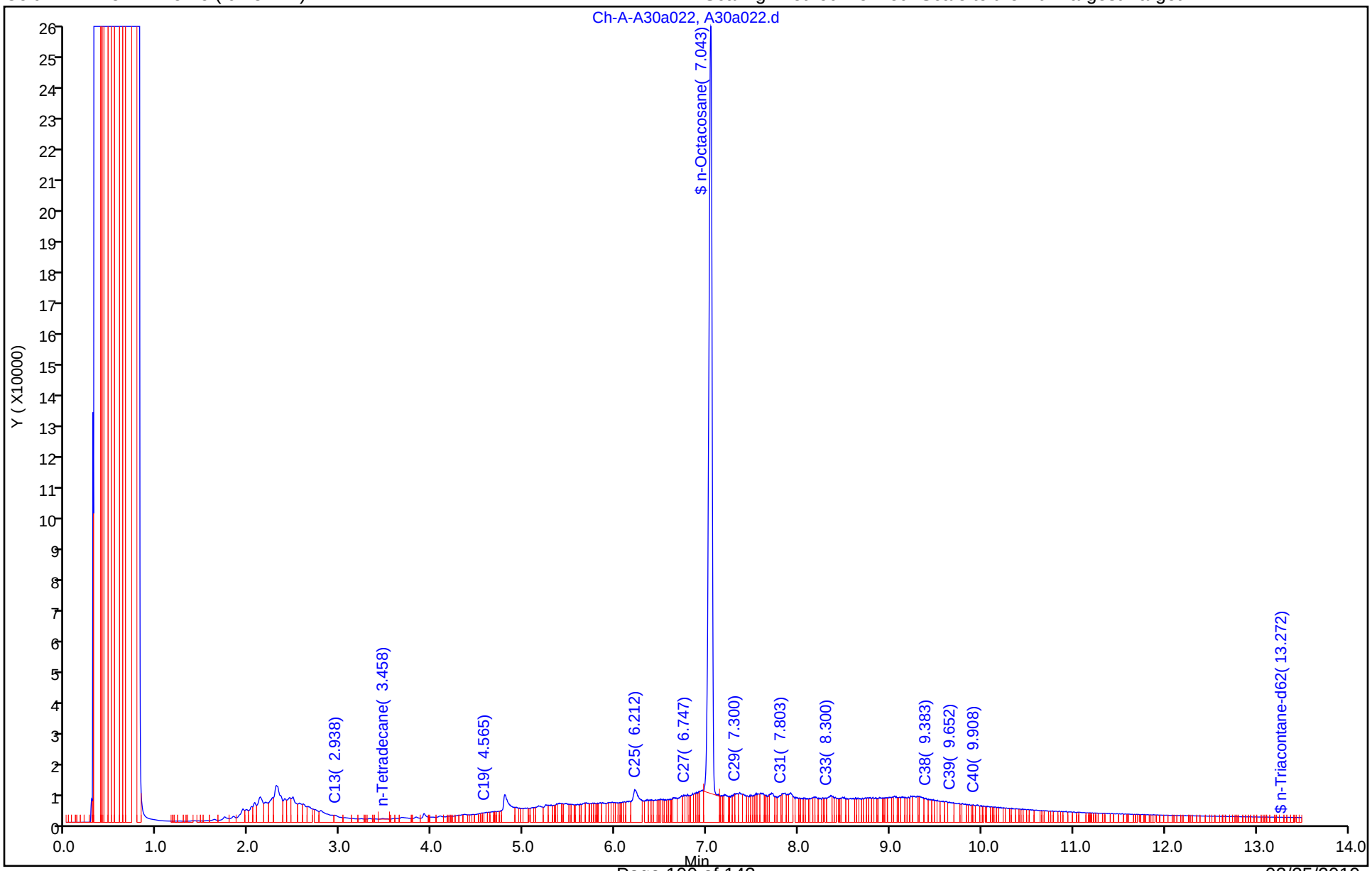
Report Date: 31-Jan-2019 09:22:20 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a022.d

Injection Date:	30-Jan-2019 17:14:09	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-E-21-H	Lab Sample ID:	440-91011-21	Worklist Smp#:	22
Client ID:	DG-AD17S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a022.d				
Lims ID:	720-91011-E-21-H				
Client ID:	DG-AD17S-3.5-4				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 17:14:09	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:22:18	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				

First Level Reviewer: doanm Date: 31-Jan-2019 09:22:18

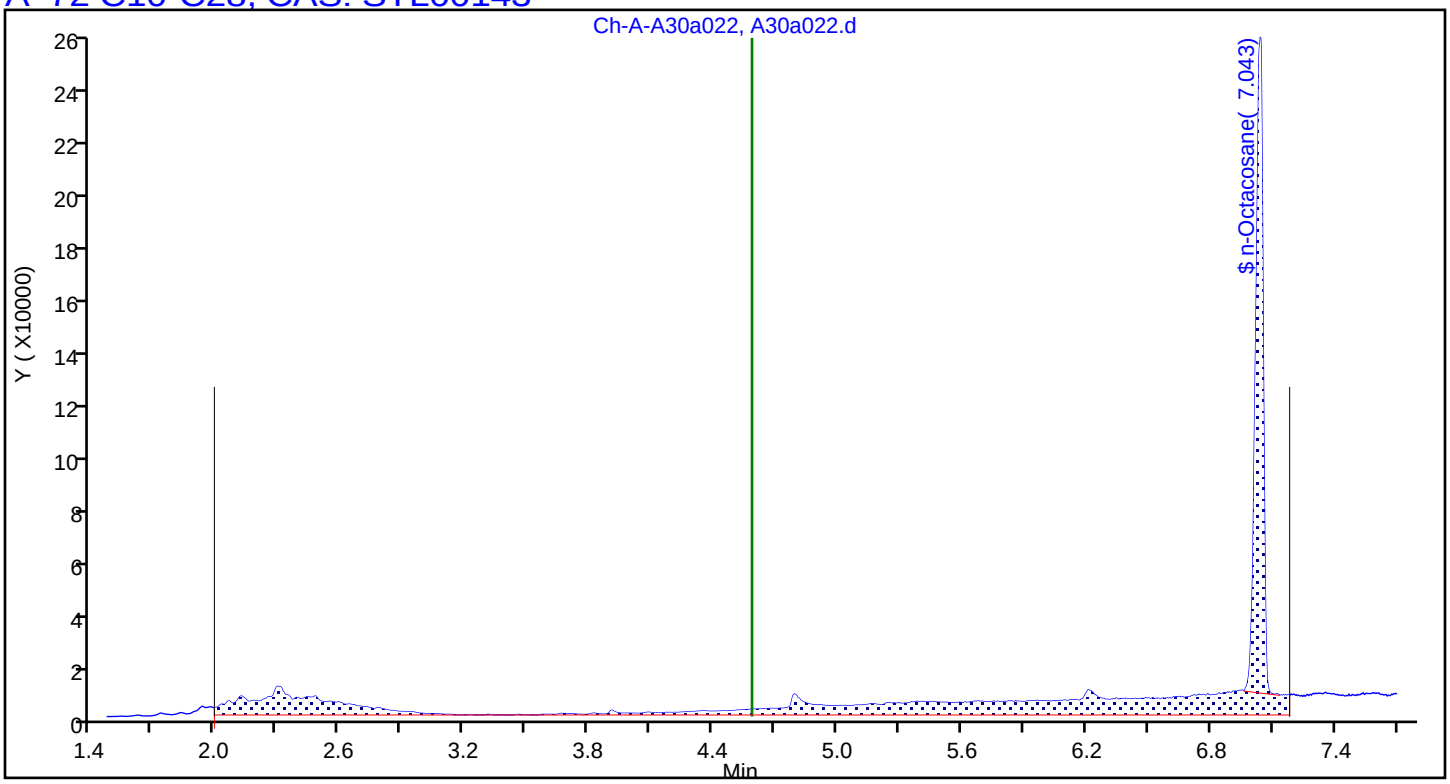
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	165.4	82.72
$ 178 n-Triacontane-d62	0	0	0.00

Report Date: 31-Jan-2019 09:22:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a022.d				
Injection Date:	30-Jan-2019 17:14:09	Instrument ID:	GC70A		
Lims ID:	720-91011-E-21-H	Lab Sample ID:	440-91011-21		
Client ID:	DG-AD17S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

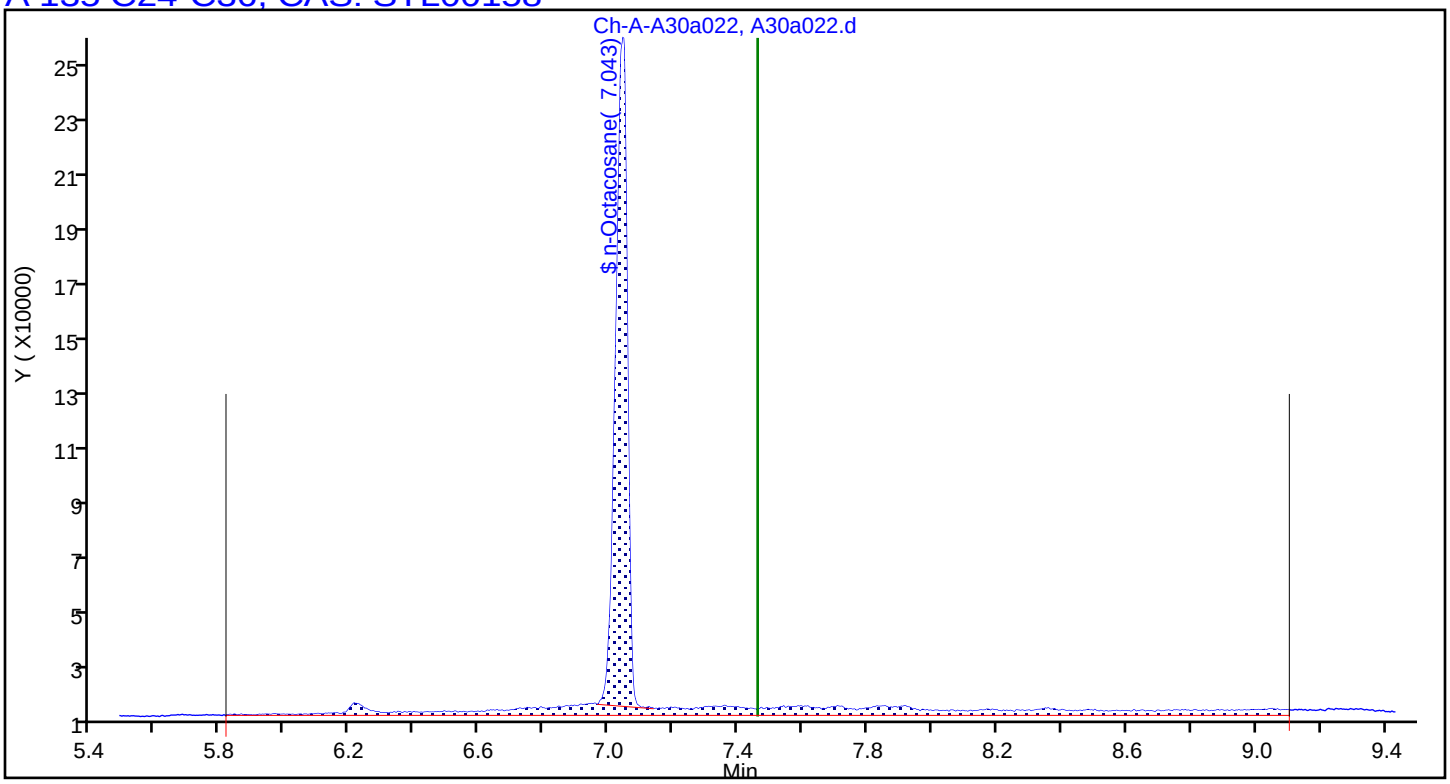


Report Date: 31-Jan-2019 09:22:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a022.d				
Injection Date:	30-Jan-2019 17:14:09	Instrument ID:	GC70A		
Lims ID:	720-91011-E-21-H	Lab Sample ID:	440-91011-21		
Client ID:	DG-AD17S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a030.d				
Lims ID:	720-91011-E-22-B				
Client ID:	DG-AB17S-0.5-1				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 20:06:05	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:26:05	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				
First Level Reviewer: doanm		Date:	31-Jan-2019 09:26:05		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.992-7.185)		16547575	4568.5	
$ 127 n-Octacosane	7.052	7.032	0.020	336521	91.5	
A 135 C24-C36	7.460	(5.815-9.105)		10136980	2798.6	

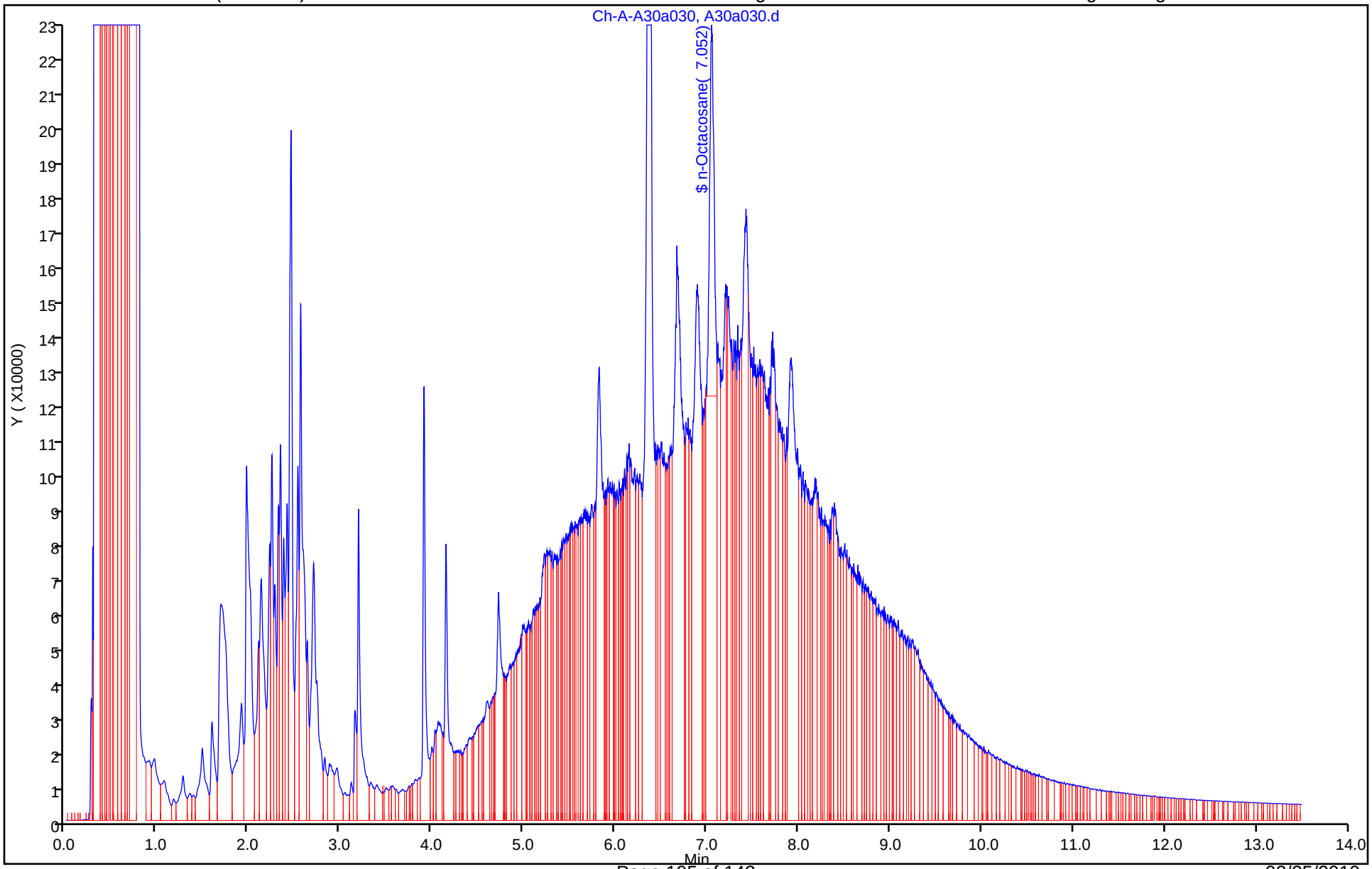
Report Date: 31-Jan-2019 09:26:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a030.d

Injection Date:	30-Jan-2019 20:06:05	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-E-22-B	Lab Sample ID:	440-91011-22	Worklist Smp#:	30
Client ID:	DG-AB17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a030.d				
Lims ID:	720-91011-E-22-B				
Client ID:	DG-AB17S-0.5-1				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 20:06:05	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:26:05	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				

First Level Reviewer: doanm Date: 31-Jan-2019 09:26:05

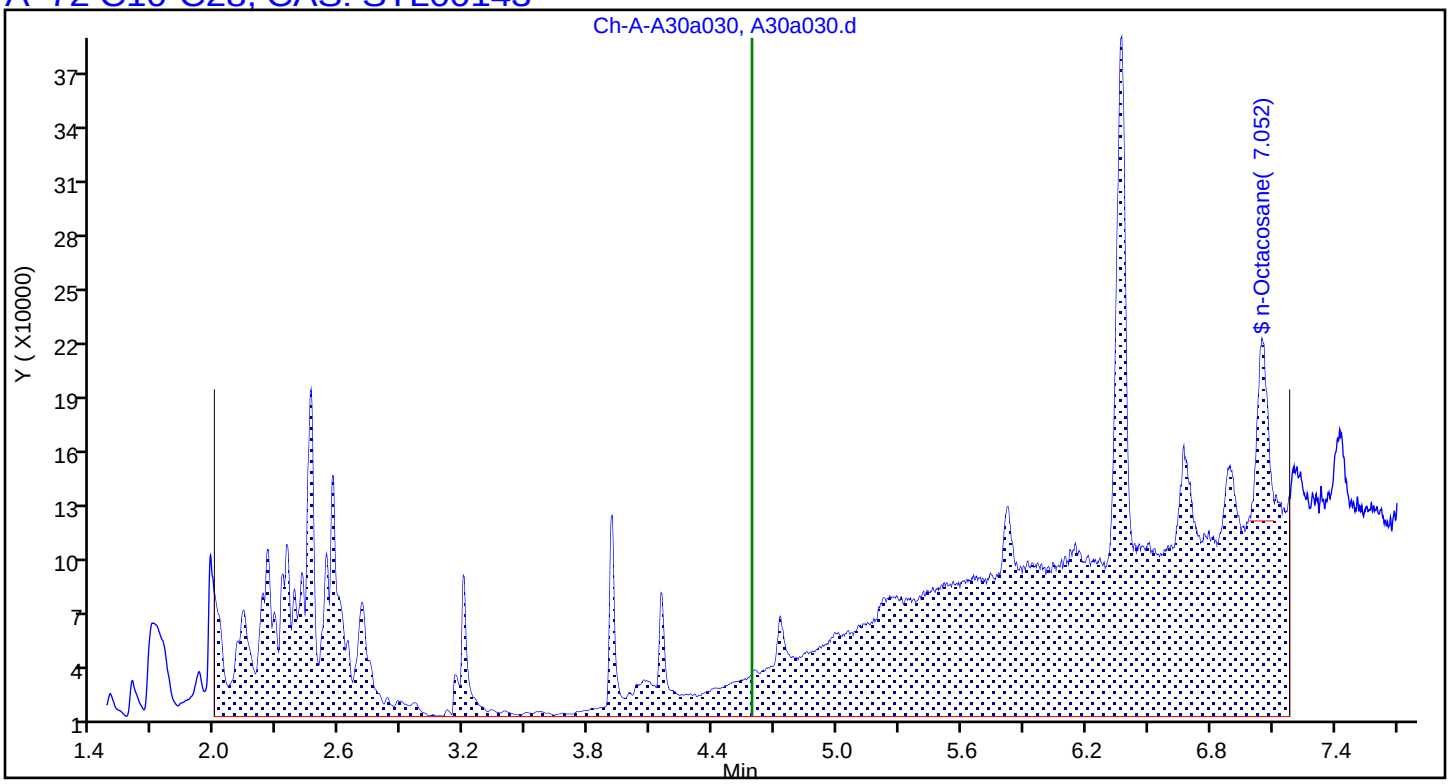
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	91.5	91.47
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 31-Jan-2019 09:26:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a030.d				
Injection Date:	30-Jan-2019 20:06:05	Instrument ID:	GC70A		
Lims ID:	720-91011-E-22-B	Lab Sample ID:	440-91011-22		
Client ID:	DG-AB17S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

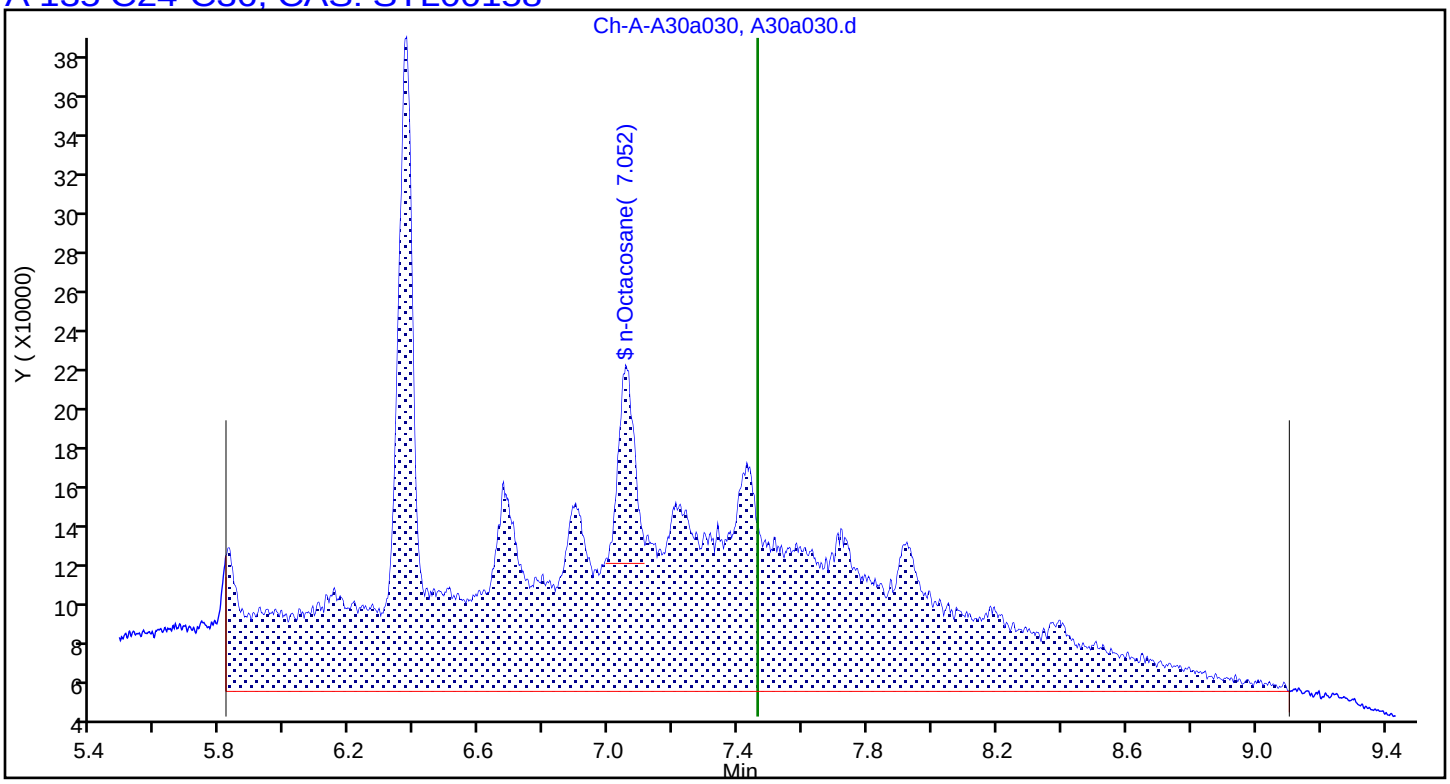


Report Date: 31-Jan-2019 09:26:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a030.d				
Injection Date:	30-Jan-2019 20:06:05	Instrument ID:	GC70A		
Lims ID:	720-91011-E-22-B	Lab Sample ID:	440-91011-22		
Client ID:	DG-AB17S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190131-114934.b\A31a034.d				
Lims ID:	720-91011-E-23-B				
Client ID:	DG-AB17S-3.5-4				
Sample Type:	Client				
Inject. Date:	31-Jan-2019 20:45:13	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190131-114934.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 21:15:17	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0316				
First Level Reviewer: barnettl		Date:	31-Jan-2019 21:15:17		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.591	(1.995-7.187)		4163063	1149.3	
$ 127 n-Octacosane	7.055	7.037	0.018	9883	2.69	
A 135 C24-C36	7.477	(5.840-9.113)		1388853	383.4	

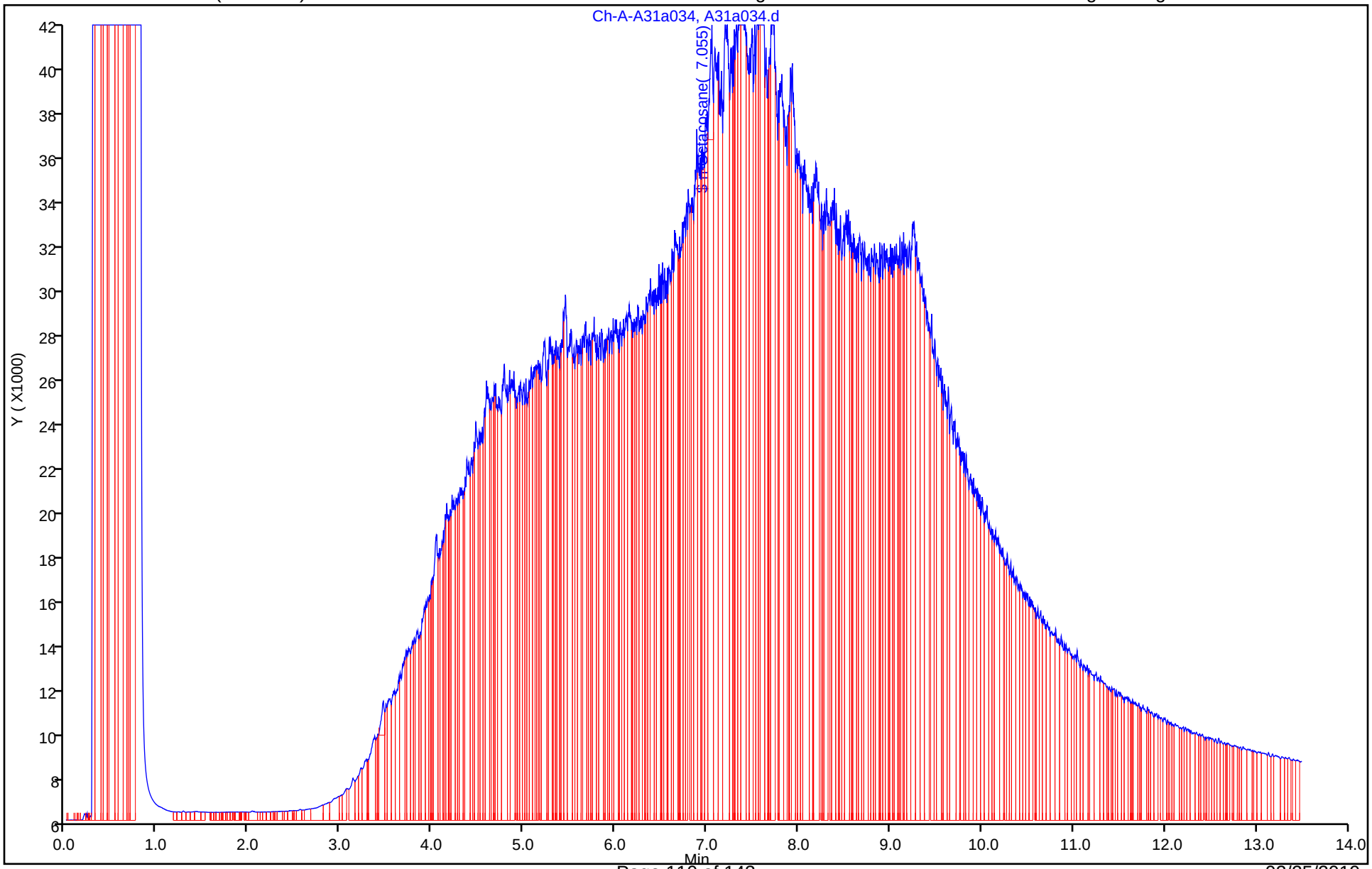
Report Date: 31-Jan-2019 21:15:18 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190131-114934.b\A31a034.d

Injection Date:	31-Jan-2019 20:45:13	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-E-23-B	Lab Sample ID:	440-91011-23	Worklist Smp#:	31
Client ID:	DG-AB17S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190131-114934.b\A31a034.d				
Lims ID:	720-91011-E-23-B				
Client ID:	DG-AB17S-3.5-4				
Sample Type:	Client				
Inject. Date:	31-Jan-2019 20:45:13	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190131-114934.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 21:15:17	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0316				

First Level Reviewer: barnettl Date: 31-Jan-2019 21:15:17

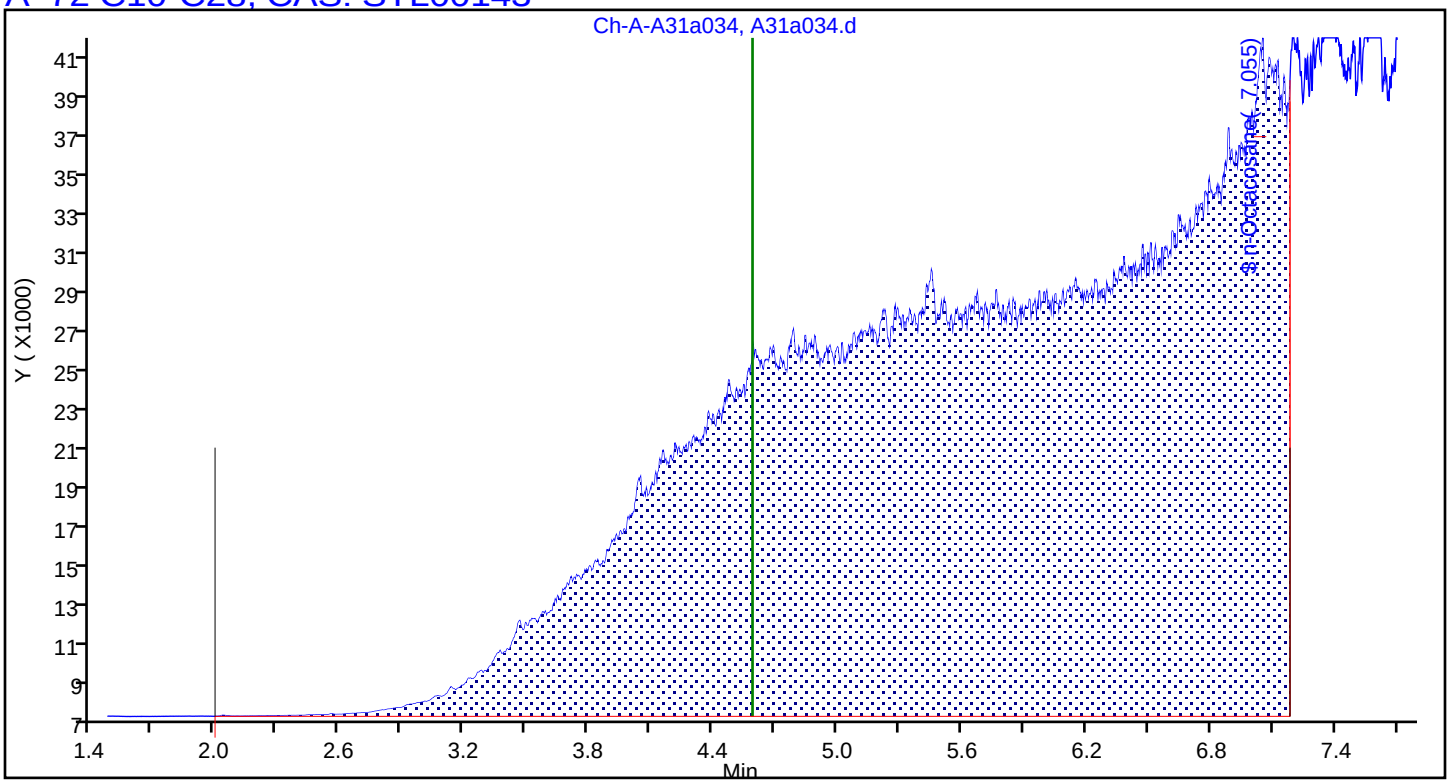
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	2.69	53.73
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 31-Jan-2019 21:15:18 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190131-114934.b\A31a034.d				
Injection Date:	31-Jan-2019 20:45:13	Instrument ID:	GC70A		
Lims ID:	720-91011-E-23-B	Lab Sample ID:	440-91011-23		
Client ID:	DG-AB17S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143



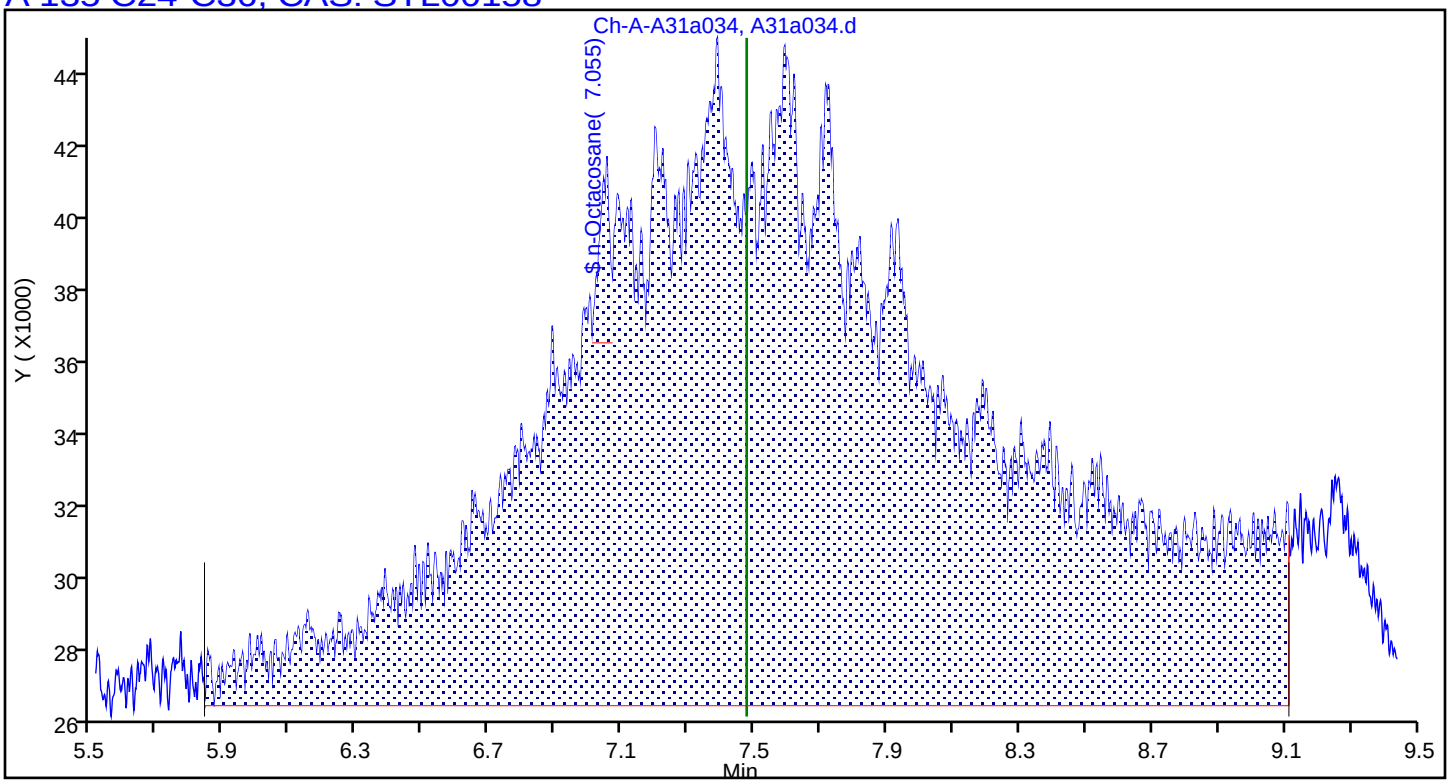
Report Date: 31-Jan-2019 21:15:18 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190131-114934.b\A31a034.d

Injection Date:	31-Jan-2019 20:45:13	Instrument ID:	GC70A		
Lims ID:	720-91011-E-23-B	Lab Sample ID:	440-91011-23		
Client ID:	DG-AB17S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a027.d				
Lims ID:	720-91011-E-24-B				
Client ID:	DG-AA19S-0.5-1				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 19:01:44	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:25:12	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				
First Level Reviewer: doanm		Date:	31-Jan-2019 09:25:12		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.992-7.185)		9604023	2651.5	
$ 127 n-Octacosane	7.060	7.032	0.028	267074	72.6	
A 135 C24-C36	7.460	(5.815-9.105)		14218254	3925.4	

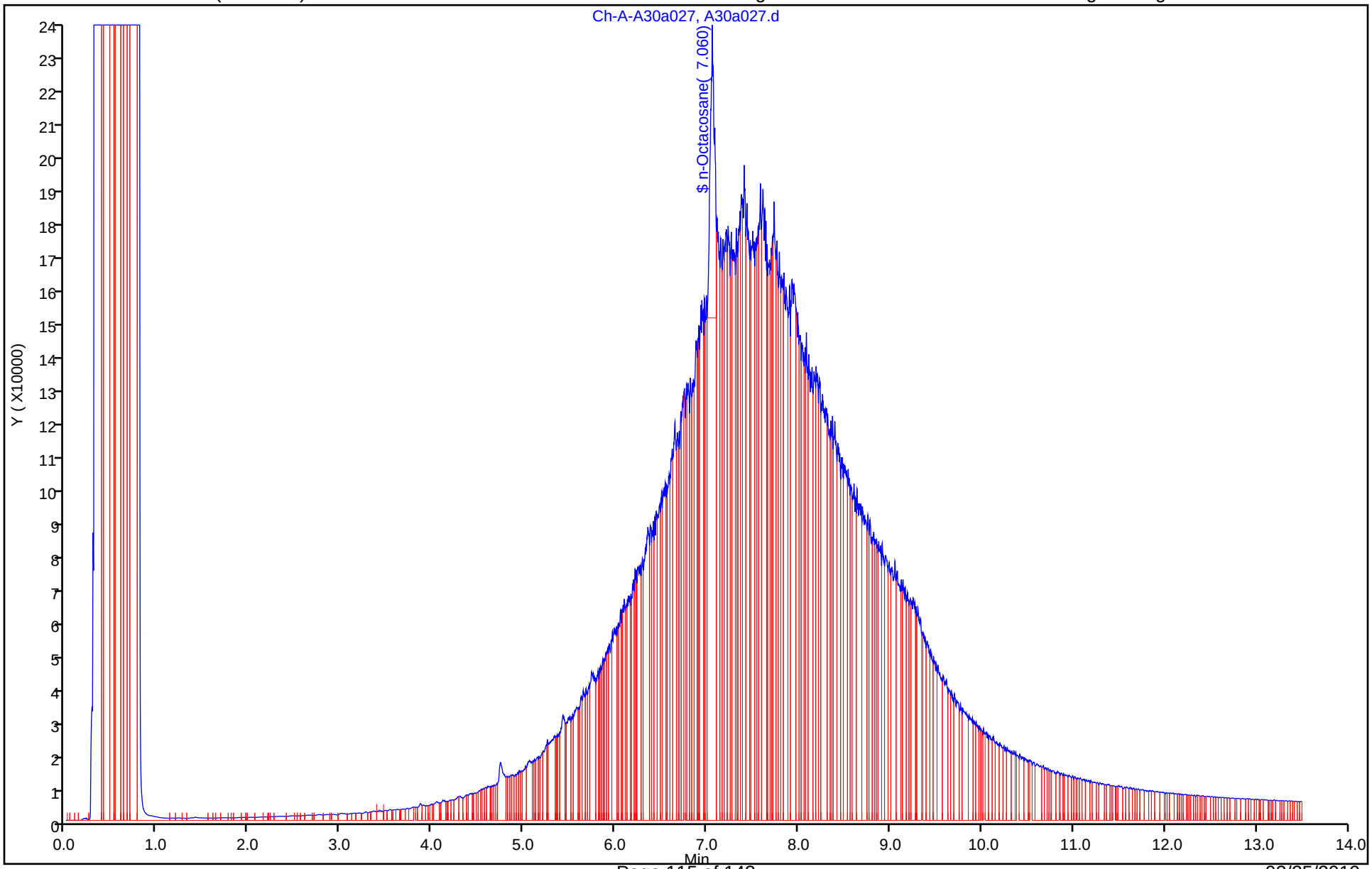
Report Date: 31-Jan-2019 09:25:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a027.d

Injection Date:	30-Jan-2019 19:01:44	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-E-24-B	Lab Sample ID:	440-91011-24	Worklist Smp#:	27
Client ID:	DG-AA19S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a027.d				
Lims ID:	720-91011-E-24-B				
Client ID:	DG-AA19S-0.5-1				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 19:01:44	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:25:12	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				

First Level Reviewer: doanm Date: 31-Jan-2019 09:25:12

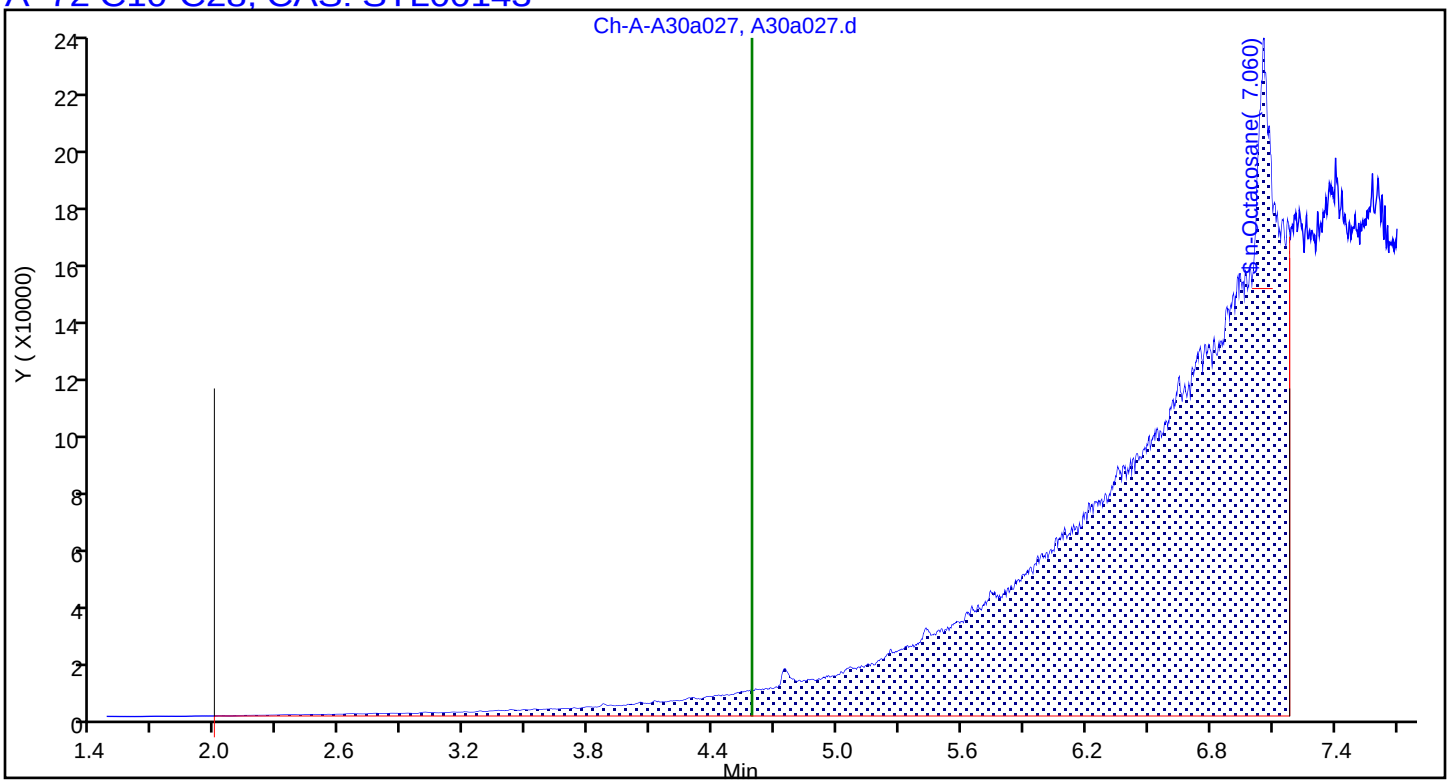
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	72.6	72.60
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 31-Jan-2019 09:25:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a027.d				
Injection Date:	30-Jan-2019 19:01:44	Instrument ID:	GC70A		
Lims ID:	720-91011-E-24-B	Lab Sample ID:	440-91011-24		
Client ID:	DG-AA19S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

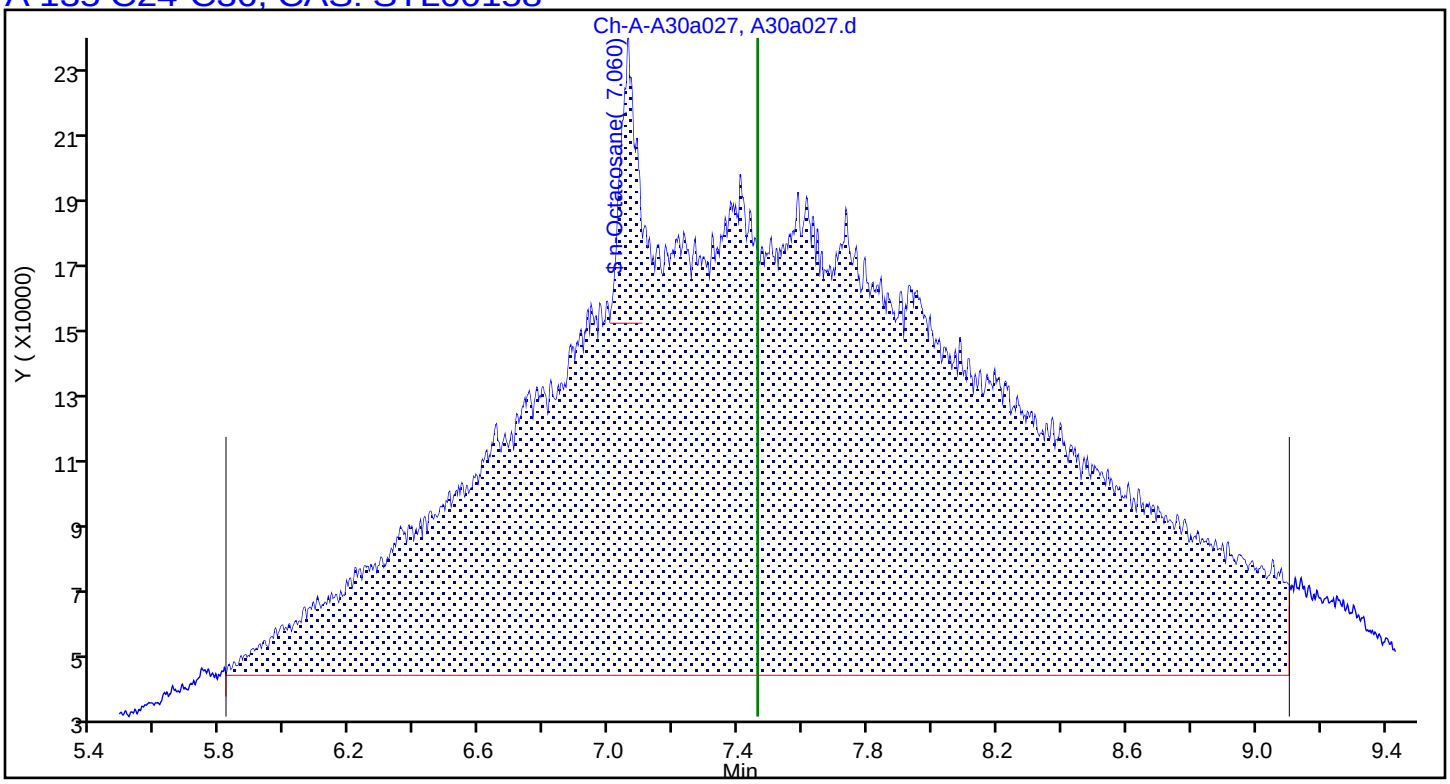


Report Date: 31-Jan-2019 09:25:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a027.d				
Injection Date:	30-Jan-2019 19:01:44	Instrument ID:	GC70A		
Lims ID:	720-91011-E-24-B	Lab Sample ID:	440-91011-24		
Client ID:	DG-AA19S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a028.d				
Lims ID:	720-91011-E-25-B				
Client ID:	DG-AA19S-3.5-4				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 19:23:17	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:25:30	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				
First Level Reviewer: doanm		Date:	31-Jan-2019 09:25:30		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.992-7.185)		1483100	409.5	
$ 127 n-Octacosane	7.038	7.032	0.006	351801	95.6	
A 135 C24-C36	7.460	(5.815-9.105)		2885832	796.7	

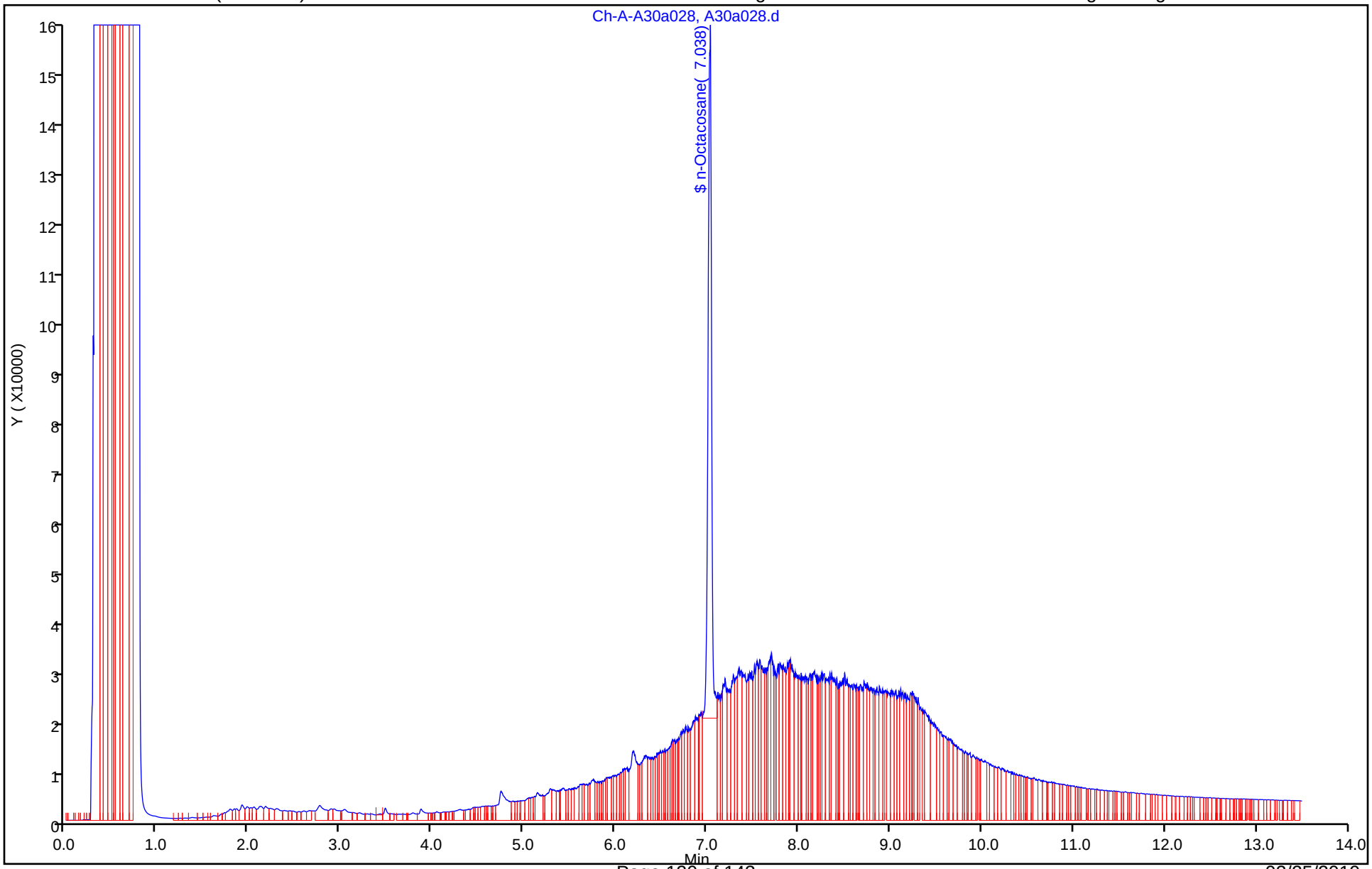
Report Date: 31-Jan-2019 09:25:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a028.d

Injection Date:	30-Jan-2019 19:23:17	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-E-25-B	Lab Sample ID:	440-91011-25	Worklist Smp#:	28
Client ID:	DG-AA19S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a028.d				
Lims ID:	720-91011-E-25-B				
Client ID:	DG-AA19S-3.5-4				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 19:23:17	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:25:30	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				

First Level Reviewer: doanm Date: 31-Jan-2019 09:25:30

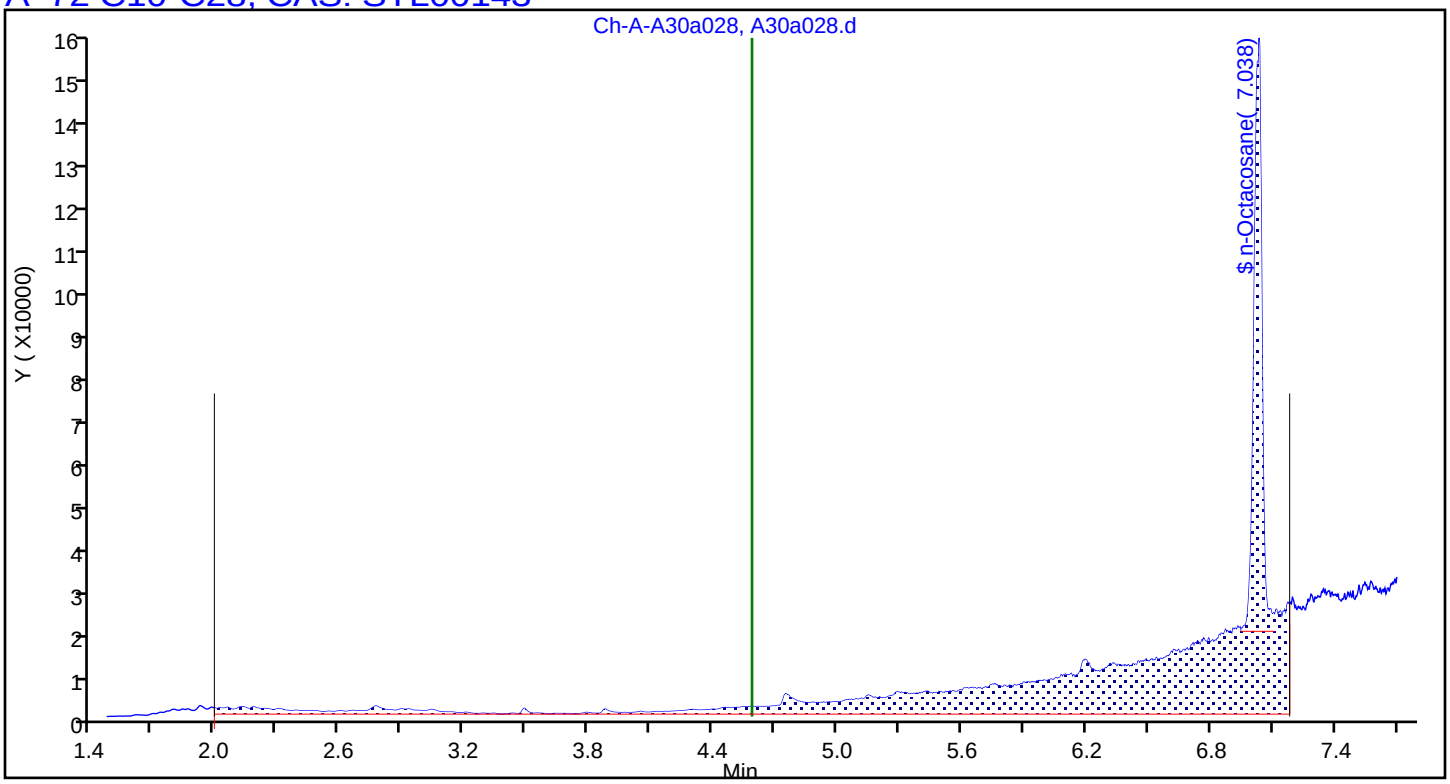
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	95.6	95.63
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 31-Jan-2019 09:25:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a028.d				
Injection Date:	30-Jan-2019 19:23:17	Instrument ID:	GC70A		
Lims ID:	720-91011-E-25-B	Lab Sample ID:	440-91011-25		
Client ID:	DG-AA19S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

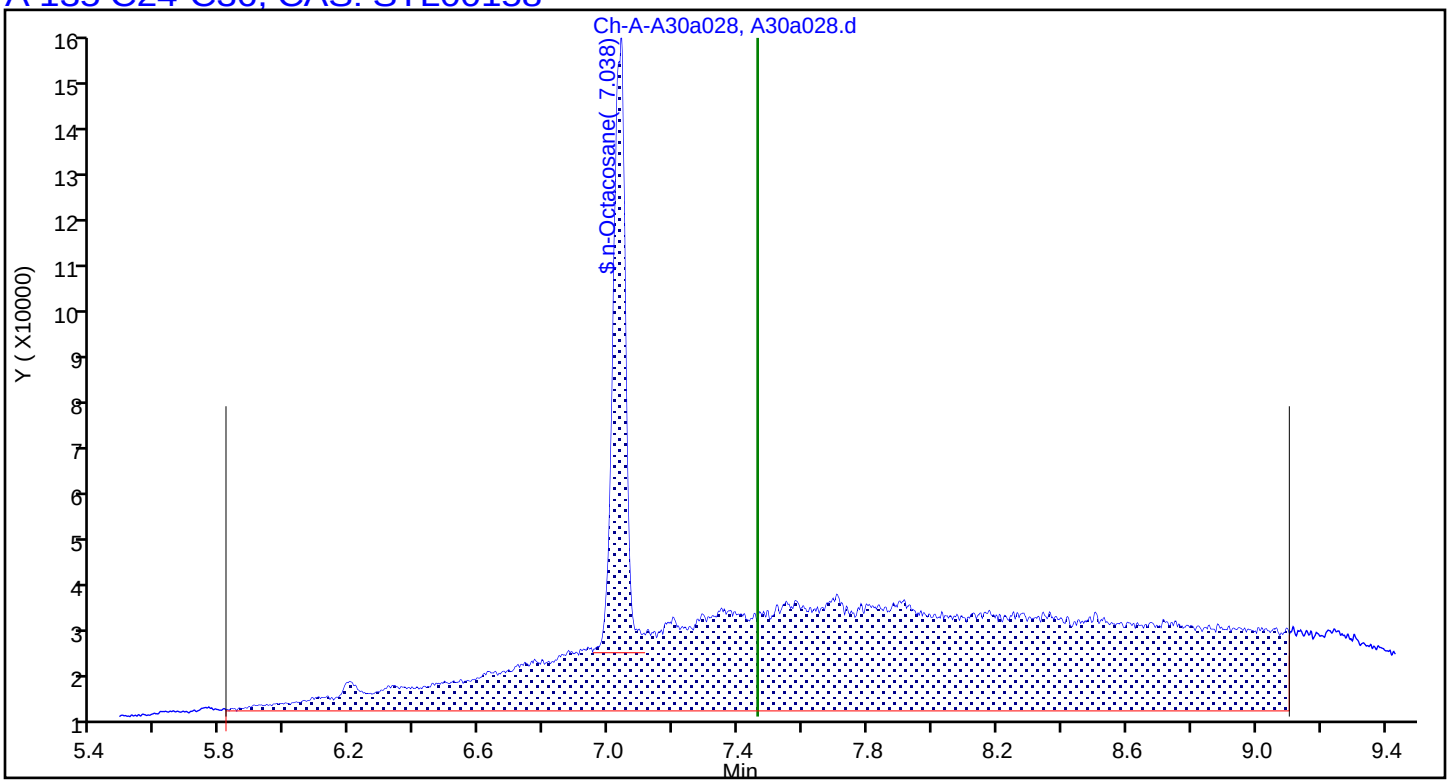


Report Date: 31-Jan-2019 09:25:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a028.d				
Injection Date:	30-Jan-2019 19:23:17	Instrument ID:	GC70A		
Lims ID:	720-91011-E-25-B	Lab Sample ID:	440-91011-25		
Client ID:	DG-AA19S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a034.d				
Lims ID:	720-91011-E-26-A				
Client ID:	DG-AA19S-8.5-9				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 21:31:16	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:27:15	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				
First Level Reviewer: doanm		Date:	31-Jan-2019 09:27:15		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.992-7.185)		323042	89.2	
$ 127 n-Octacosane	7.037	7.032	0.005	670186	182.2	
A 135 C24-C36	7.460	(5.815-9.105)		190252	52.5	

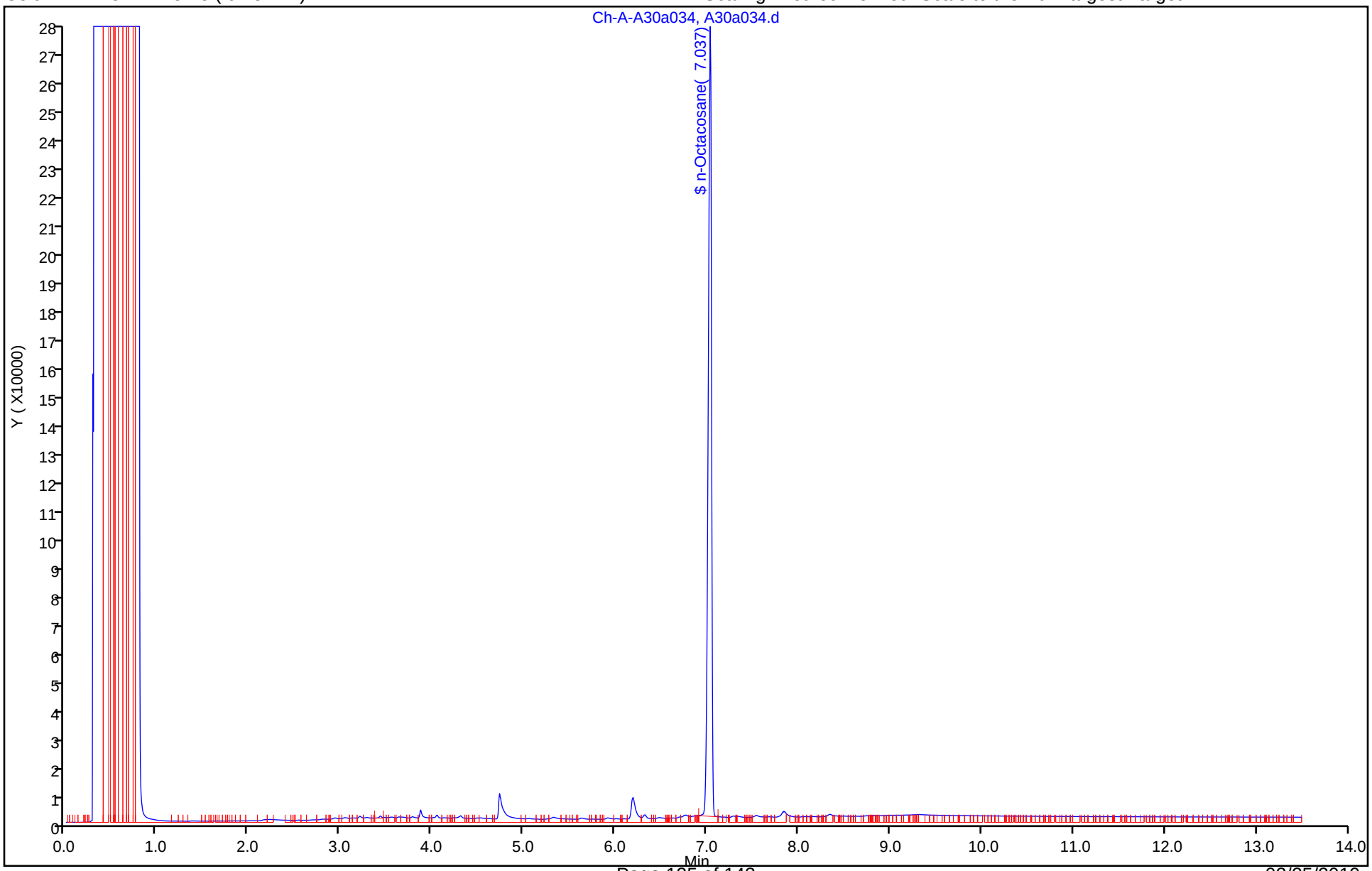
Report Date: 31-Jan-2019 09:27:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a034.d

Injection Date:	30-Jan-2019 21:31:16	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91011-E-26-A	Lab Sample ID:	440-91011-26	Worklist Smp#:	34
Client ID:	DG-AA19S-8.5-9				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a034.d				
Lims ID:	720-91011-E-26-A				
Client ID:	DG-AA19S-8.5-9				
Sample Type:	Client				
Inject. Date:	30-Jan-2019 21:31:16	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	31-Jan-2019 09:27:15	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0321				

First Level Reviewer: doanm Date: 31-Jan-2019 09:27:15

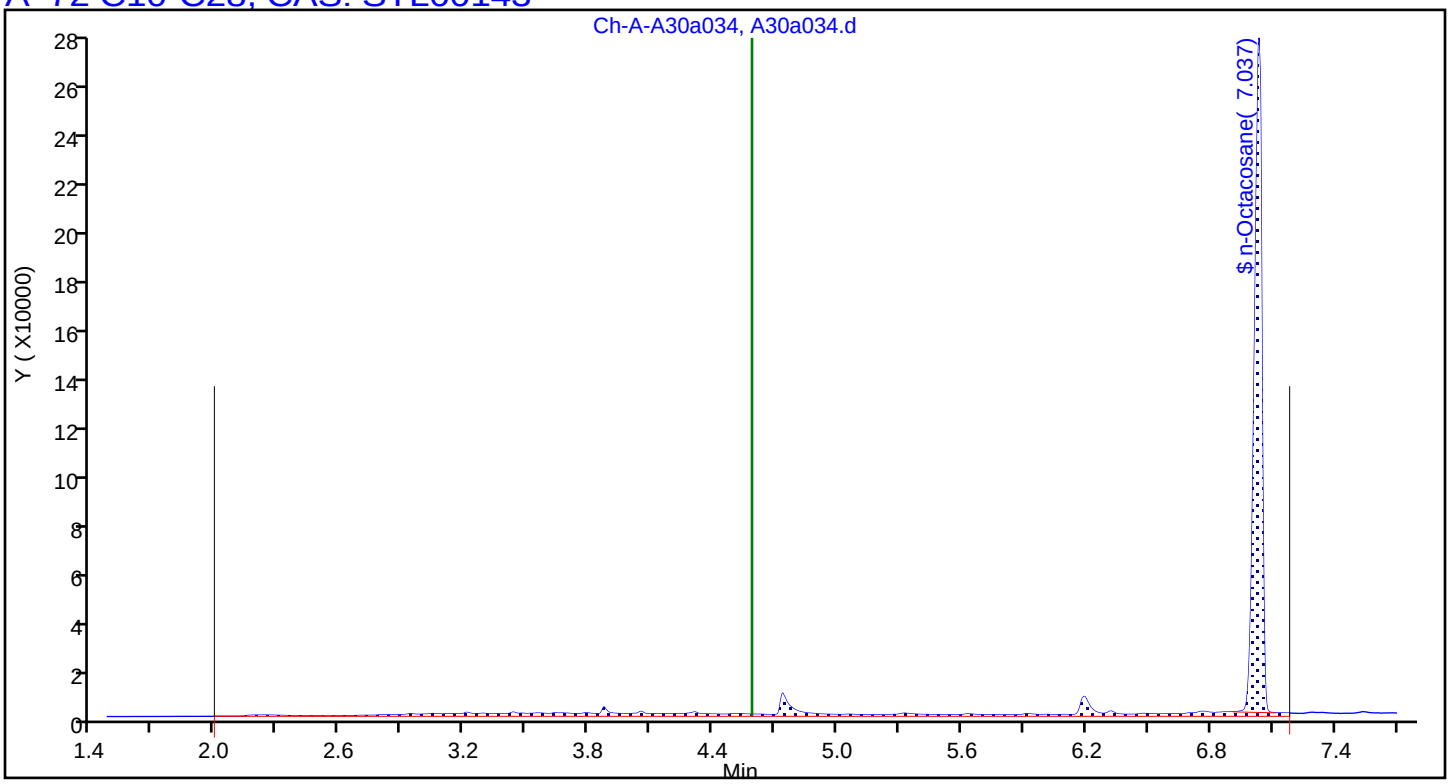
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	182.2	91.09
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 31-Jan-2019 09:27:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a034.d				
Injection Date:	30-Jan-2019 21:31:16	Instrument ID:	GC70A		
Lims ID:	720-91011-E-26-A	Lab Sample ID:	440-91011-26		
Client ID:	DG-AA19S-8.5-9				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

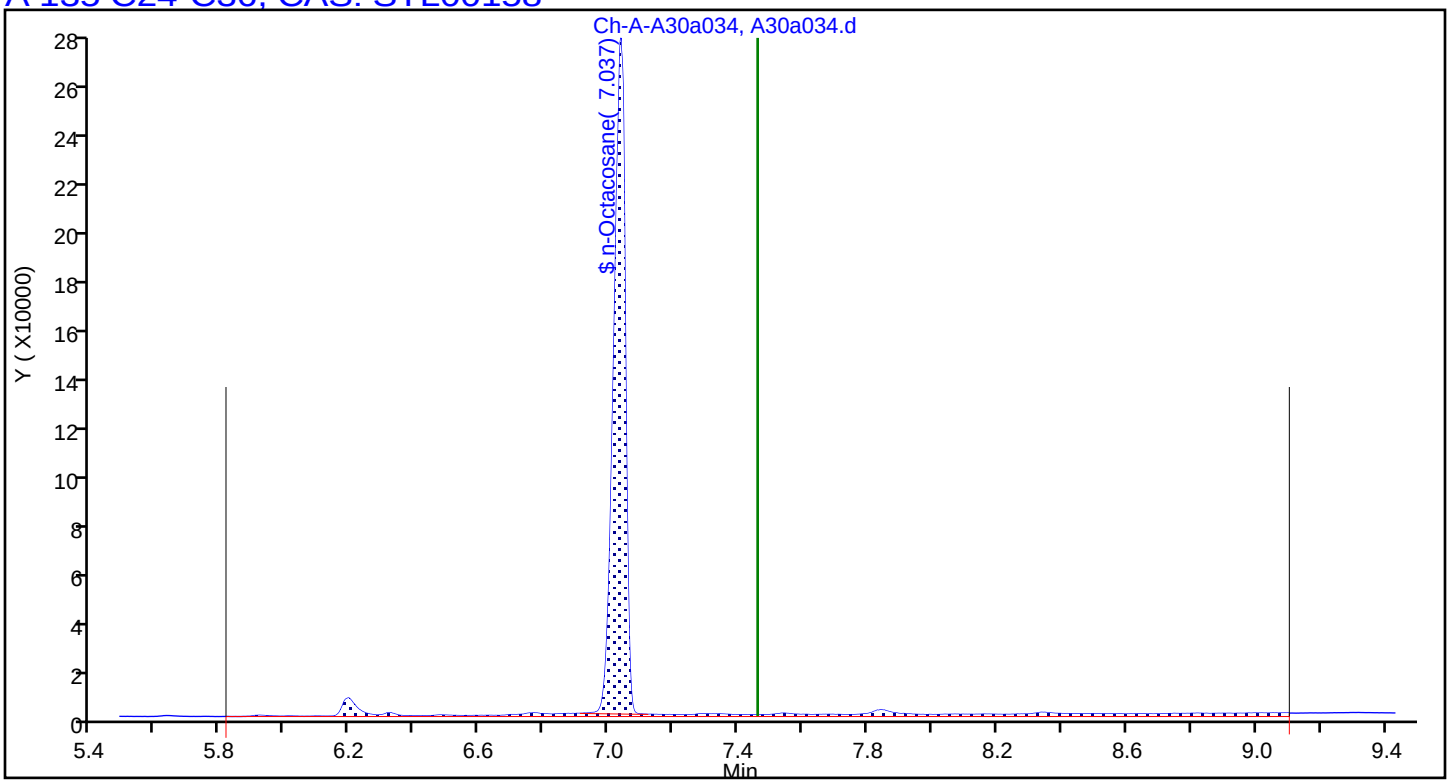


Report Date: 31-Jan-2019 09:27:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190130-114901.b\A30a034.d				
Injection Date:	30-Jan-2019 21:31:16	Instrument ID:	GC70A		
Lims ID:	720-91011-E-26-A	Lab Sample ID:	440-91011-26		
Client ID:	DG-AA19S-8.5-9				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

02/25/2019

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 2668	COC No: 720-40958.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note:
DG-AW11W (720-91011-1)	1/24/19	09:00 Pacific		Water	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AM15W (720-91011-2)	1/24/19	10:20 Pacific		Water	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AK15W (720-91011-3)	1/24/19	11:10 Pacific		Water	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AG15W (720-91011-4)	1/24/19	11:40 Pacific		Water	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-W-1.24.2019 (720-91011-5)	1/24/19	Pacific		Water	check for 2 phases
FB-1.24.2019 (720-91011-6)	1/24/19	12:05 Pacific		Water	check for 2 phases
DUP-76 (720-91011-7)	1/24/19	Pacific		Water	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AI15S-0.5-1 (720-91011-8)	1/24/19	08:30 Pacific		Solid	
DG-AI15S-0.5-1 (720-91011-8MS)	1/24/19	08:30 Pacific	MS	Solid	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 1020	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1-25-19 1020	PLS			
	Relinquished by:	Date/Time:	Company	Received by: Olga Cinelus	1/25/19 1000	TAPAN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6/2.1 IR-93

Encores or Terracores Frozen
Date: 1/25/19 Time: 10:25 Initials: OO

Ver: 09/20/2016

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TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082A/3540 Standard 8082 PCB Test	8011/504/8067 (MOD) (MOD) Standard List	8270C_SIM/3545 (MOD) 8270-APHO PAH SIM	8015B_DRO/3545 (MOD) 8015B_TEPH (DRO and MRO) Organics	Moisture Percent Moisture	6010B/3050B 6010-CAM-17_No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
DG-AI15S-0.5-1 (720-91011-8MSD)	1/24/19	08:30 Pacific	MSD	Solid						X	X	X	X		X	X	X	X	3	
DG-AI15S-3.5-4 (720-91011-9)	1/24/19	08:30 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DUP-112 (720-91011-10)	1/24/19	08:30 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AJ17S-0.5-1 (720-91011-11)	1/24/19	09:40 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AJ17S-3.5-4 (720-91011-12)	1/24/19	09:40 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AJ17S-9.5-10 (720-91011-13)	1/24/19	09:40 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AH17S-0.5-1 (720-91011-14)	1/24/19	10:40 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AG15S-0.5-1 (720-91011-15)	1/24/19	11:15 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AG15S-3.5-4 (720-91011-16)	1/24/19	11:15 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: Olga Cimelas	Date/Time: 1/25/19 1000	Company TAT RC

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

02/25/2019

TestAmerica Pleasanton
1220 Quarry Lane
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260BICA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8270C_SIM/3546 (MOD) 8270 (MOD)-PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture Percent Moisture	7471A/7471A_Prep 7470A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260BICA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:															
DG-AG15S-8.5-9 (720-91011-17)	1/24/19	11:15 Pacific		Solid			X	X	X	X	X	X	X	X	X	X	4	
DG-AD17S-0.5-1 (720-91011-18)	1/24/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X	X	X	4	
DG-AD17S-7-7.5 (720-91011-19)	1/24/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X	X	X	4	
DUP-125 (720-91011-20)	1/24/19	Pacific		Solid			X	X	X	X	X	X	X	X	X	X	4	
DG-AD17S-3.5-4 (720-91011-21)	1/24/19	13:30 Pacific		Solid			X	X	X	X	X	X	X	X	X	X	4	
DG-AD17S-3.5-4 (720-91011-21MS)	1/24/19	13:30 Pacific	MS	Solid			X	X	X	X	X	X	X	X	X	X	3	
DG-AD17S-3.5-4 (720-91011-21MSD)	1/24/19	13:30 Pacific	MSD	Solid			X	X	X	X	X	X	X	X	X	X	3	
DG-AB17S-0.5-1 (720-91011-22)	1/24/19	14:20 Pacific		Solid			X	X	X	X	X	X	X	X	X	X	4	
DG-AB17S-3.5-4 (720-91011-23)	1/24/19	14:20 Pacific		Solid			X	X	X	X	X	X	X	X	X	X	4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1-25-19 1070	PTS			
2	Relinquished by:	Date/Time:	Company	Received by: Olga Cimelas	Date/Time: 1/25/19 1000	Company TAKV
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

02/25/2019

Page 131 of 143

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

02/25/2019

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	Field Filtered Sample (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	TOAL Number of Containers	Special Instructions/Note:
			Preservation Code:																	
DG-AA19S-0.5-1 (720-91011-24)	1/24/19	15:00 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AA19S-3.5-4 (720-91011-25)	1/24/19	15:00 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	
DG-AA19S-8.5-9 (720-91011-26)	1/24/19	15:00 Pacific		Solid						X	X	X	X	X	X	X	X	X	4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Doran Kuhler	Date/Time: 1-25-19 1030	Company PTS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Olga Cimelas	Date/Time: 1/25/19 1000	Company PTAKV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
720-91011

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

Chain of Custody Record

188099

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91011 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)		Sample Specific Notes
1	DG-AW11W	1/24/2019	0900	G	GW	9	Y		X	X	X	X	X		Metals and chromium samples filtered
2	DG-AM15W	1/24/2019	1020	G	GW	9	Y		X	X	X	X	X		
3	DG-AK15W	1/24/2019	1110	G	GW	9	Y		X	X	X	X	X		
4	DG-AS15W	1/24/2019	1140	G	GW	9	Y		X	X	X	X	X		
5	TB-W-1.24.2019	1/24/2019	—	G	GW	1	N		X	X	X	X	X	HOLD	
6	FB-1.24.2019	1/24/2019	1205	G	GW	3	N		X						
7	DUP-76	1/24/2019	—	G	GW	9	Y		X	X	X	X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No.: ____	
Relinquished by	Company Geosyntec	Date/Time 1/24/2019 1604	Received by	Company TAPLS	Date/Time 1/24/19 1604
Relinquished by	Company TAPLS	Date/Time 1/24/19 1801	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA PLS	Date/Time 1/24/19 1835

2-7/2-2/2-6/2-3°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/25/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-9011

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1.24.19	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
8 DG-A11SS-0.5-1	1.24.19	0830	G	S	10	N	Y	X	X	X	X	X	X	X	
9 DG-A11SS-3.5-4	1.24.19	0830	G	S	7	N	N	X	X	X	X	X	X	X	
10 DUP-112	1.24.19	0830	G	S	7	N	N	X	X	X	X	X	X	X	
11 DG-AJ17S-0.5-1		0940			7	N	N	X	X	X	X	X	X	X	
12 DG-AJ17S-3.5-4		0940			7	N	N	X	X	X	X	X	X	X	
13 DG-AJ17S-9.5-10		0940			7	N	N	X	X	X	X	X	X	X	
14 DG-AH17S-0.5-1		1040			7	N	N	X	X	X	X	X	X	X	
15 DG-AG15S-0.5-1		1115			7	N	N	X	X	X	X	X	X	X	
16 DG-AG15S-3.5-4		1115			7	N	N	X	X	X	X	X	X	X	
17 DG-AG15S-8.5-9		1115			7	N	N	X	X	X	X	X	X	X	
18 DG-AD17S-0.5-1		1330				W	W	X	X	X	X	X	X	X	
19 DG-AD17S ~~9.5~~ 7-7.5	↓	1330	↓	↓		W	N	X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd _____	Therm ID No. _____
Relinquished by	Company Geosyntec	Date/Time 1/24/2019 1600	Received by	Company TAPLS	Date/Time 1/24/19 1604
Relinquished by	Company TAPLS	Date/Time 1/24/19 1835	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA PLS	Date/Time 1/24/19 1835

2-7/2-2/2-6/2-3°C

12/26/2019

TestAmerica Pleasanton
1220 Quarry Lane
720-91011
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925 600 3002

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
20	~~AD~~ DUP-125	1/24/2019	—	G	S	7	N		X	X	X	X	X	X	X	
21	~~AD1~~ DG-AD17S-3.5-4	1/24/2019	1330	G	S	10	N	Y	X	X	X	X	X	X	X	
22	DG-AB17S-0.5-1	1/24/2019	1420	G	S	7	N	N	X	X	X	X	X	X	X	
23	DG-AB17S-3.5-4	1/24/2019	1420	G	S	7	N	N	X	X	X	X	X	X	X	
24	DG-AA17S-0.5-1	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
25	DG-AA19S-3.5-4	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
26	DG-AA19S-8.5-9	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
27	~~TB-A / TB-W~~ TB-S-1.24.19	1/24/2019	—	G	W	1	N	N	X	X	X	X	X	X	X	(MS)

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by	Company Geosyntec	Date/Time 1/24/2019 1604	Received by	Company TA-PLS	Date/Time 1/24/19 1604
Relinquished by	Company TA-PLS	Date/Time 1/24/19 1835	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/24/19 1835

2-7/2-2/2-6/2-3°C

R025/5/2019

FedEx

Address: 900 GATEWAY
BOULEVARD
SOUTH SAN FRANCISCO
CA 94080
Location: SQLA
Device ID: -BTC02

FedEx Express Package(s) - Dropped Off
478645742668

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 24, 2019 4:27:00 PM

Ref:	Date: 24Jan19		SHIPPING:	0.00
Dep:	Wgt: 40.00 LBS		SPECIAL:	0.00
			HANDLING:	0.00
	DV:	100.00	TOTAL:	0.00

Svcs: PRIORITY OVERNIGHT
TRCK: 4786 4574 2668

720-91011
THVR TERRA CORES
GEOSYNTEC



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91011

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91011 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes:
1 DG-AW11W	1/24/2019	0900	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2 DG-AM15W	1/24/2019	1020	G	GW	9	Y		X	X	X	X	X	
3 DG-AK15W	1/24/2019	1110	G	GW	9	Y		X	X	X	X	X	
4 DG-AG15W	1/24/2019	1140	G	GW	9	Y		X	X	X	X	X	
5 TB-W-1.24.2019	1/24/2019	—	G	GW	1	N		X	~~X~~	~~X~~	~~X~~	X (MS)	
6 FB-1.24.2019	1/24/2019	1205	G	GW	3	N		X					
7 DUP-76	1/24/2019	—	G	GW	9	Y		X	X	X	X	X	

720-91011 Chain of Custody

Sample Specific Notes:

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd.	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1/24/2019 1604	Received by:	Company: TAPLS	Date/Time: 1/24/19 1604
Relinquished by:	Company: TAPLS	Date/Time: 1/24/19 1801	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA PLS	Date/Time: 1/24/19 1835

2-7/2-2/2-6/2-3C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-9011

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1.24.19	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client:
tochen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
8	DG-A115S-0.5-1	1.24.19	0830	G	S	10	N	Y	X	X	X	X	X	X	X	
9	DG-A115S-3.5-4	1.24.19	0830	G	S	7	N	N	X	X	X	X	X	X	X	
10	DUP-112	1.24.19	0830	G	S	7	N	N	X	X	X	X	X	X	X	
11	DG-AJ17S-0.5-1	↓	0940	↓	↓	7	N	N	X	X	X	X	X	X	X	
12	DG-AJ17S-3.5-4		0940			7	N	N	X	X	X	X	X	X	X	
13	DG-AJ17S-9.5-10		0940			7	N	N	X	X	X	X	X	X	X	
14	DG-AH17S-0.5-1		1040			7	N	N	X	X	X	X	X	X	X	
15	DG-AG15S-0.5-1		1115			7	N	N	X	X	X	X	X	X	X	
16	DG-AG15S-3.5-4		1115			7	N	N	X	X	X	X	X	X	X	
17	DG-AG15S-8.5-9		1115			7	N	N	X	X	X	X	X	X	X	
18	DG-AD17S-0.5-1		1330				W	W	X	X	X	X	X	X	X	
19	DG-AD17S ~~4.5~~ 7-7.5	↓	1330	↓	↓		W	W	X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 1/24/2019 1604	Received by:	Company: TAPLS	Date/Time: 1/24/19 1604
Relinquished by:	Company: TAPLS	Date/Time: 1/24/19 1835	Received by:	Company:	Date/Time:
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA PLS	Date/Time: 1/24/19 1835

2-7/2-2/2-6/2-3°C

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/25/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91011

Chain of Custody Record

188099

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date:	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler:
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, zsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 436)	Sample Specific Notes:
~~AD~~ DUP-125	1/24/2019	—	G	S	7	N		X	X	X	X	X	X	X	
~~AD~~ DG-AD17S-3.5-4	1/24/2019	1330	G	S	10	N	Y	X	X	X	X	X	X	X	
DG-AB17S-0.5-1	1/24/2019	1420	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AB17S-3.5-4	1/24/2019	1420	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-0.5-1	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-3.5-4	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
DG-AA19S-8.5-9	1/24/2019	1500	G	S	7	N	N	X	X	X	X	X	X	X	
~~TB-A~~ ~~TB-W~~ TB-S-1.24.19	1/24/2019	—	G	W	1	N	N	X	X	X	X	X	X	(NS)	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: Geosyntec	Date/Time: 1/24/2019 1600	Received by:	Company: TAPLS	Date/Time: 1/24/19 1604
Relinquished by:	Company: TAPLS	Date/Time: 1/24/19 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/24/19 1835

2-7/2-2/2-6/2-3°C

Form No. CA-C-WI-002, Rev. 4.16, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_P_PW_T 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_P_PW_T 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
DG-AW11W (720-91011-1)	1/24/19	09:00 Pacific		Water			X	X	X	X										2	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AM15W (720-91011-2)	1/24/19	10:20 Pacific		Water			X	X	X	X										2	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AK15W (720-91011-3)	1/24/19	11:10 Pacific		Water			X	X	X	X										2	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AG15W (720-91011-4)	1/24/19	11:40 Pacific		Water			X	X	X	X										2	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-W-1.24.2019 (720-91011-5)	1/24/19	Pacific		Water			X	X												2	check for 2 phases
FB-1.24.2019 (720-91011-6)	1/24/19	12:05 Pacific		Water			X	X												2	check for 2 phases
DUP-76 (720-91011-7)	1/24/19	Pacific		Water			X	X	X	X										2	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AI15S-0.5-1 (720-91011-8)	1/24/19	08:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	2	1 Jan 1-25-19
DG-AI15S-0 5-1 (720-91011-8MS)	1/24/19	08:30 Pacific	MS	Solid							X	X	X	X		X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date: 2 OP 1/25/19	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 1/25/19 1490	Company: TXPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/19 1045	Company TAIRY

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4786 4574 2896	Cooler Temperature(s) °C and Other Remarks: 1.8 / 1.3 IR95 0/5

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
DG-AI15S-0.5-1 (720-91011-8MSD)	1/24/19	08:30 Pacific	MSD	Solid							X	X	X	X		X	X	X	X	4	1
DG-AI15S-3.5-4 (720-91011-9)	1/24/19	08:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	2
DUP-112 (720-91011-10)	1/24/19	08:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	2
DG-AJ17S-0.5-1 (720-91011-11)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	2
DG-AJ17S-3.5-4 (720-91011-12)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	2
DG-AJ17S-9.5-10 (720-91011-13)	1/24/19	09:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	2
DG-AH17S-0.5-1 (720-91011-14)	1/24/19	10:40 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	2
DG-AG15S-0.5-1 (720-91011-15)	1/24/19	11:15 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	2
DG-AG15S-3.5-4 (720-91011-16)	1/24/19	11:15 Pacific		Solid							X	X	X	X	X	X	X	X	X	4	2

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/25/19 1420	Company TAPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/19 1045	Company TAPS

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4786457 52896	Cooler Temperature(s) °C and Other Remarks: 1.8/1.3 IR94 96

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

1-25-19

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8210C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_5_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
DG-AG15S-8.5-9 (720-91011-17)	1/24/19	11:15 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AD17S-0.5-1 (720-91011-18)	1/24/19	13:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AD17S-7-7.5 (720-91011-19)	1/24/19	13:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DUP-125 (720-91011-20)	1/24/19	Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AD17S-3.5-4 (720-91011-21)	1/24/19	13:30 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AD17S-3.5-4 (720-91011-21MS)	1/24/19	13:30 Pacific	MS	Solid							X	X	X	X		X	X	X	X	6	1
DG-AD17S-3.5-4 (720-91011-21MSD)	1/24/19	13:30 Pacific	MSD	Solid							X	X	X	X		X	X	X	X	6	1
DG-AB17S-0.5-1 (720-91011-22)	1/24/19	14:20 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AB17S-3.5-4 (720-91011-23)	1/24/19	14:20 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2

1-25-19 JM

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/25/19 1420	Company TAPL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/19 1045	Company TAIRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4786 4574 2896	Cooler Temperature(s) °C and Other Remarks: 1.8/1.3 IR94 CP

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40958.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91011-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 1/28/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	6010B/3050B 6010-CAM 17, No Mercury	7471A/7471A_Prep 7471A-Mercury	8260B_LL/5035A_E_EN_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_E_EN_7 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
DG-AA19S-0.5-1 (720-91011-24)	1/24/19	15:00 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AA19S-3.5-4 (720-91011-25)	1/24/19	15:00 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2
DG-AA19S-8.5-9 (720-91011-26)	1/24/19	15:00 Pacific		Solid							X	X	X	X	X	X	X	X	X	6	2

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/25/19 1720	Company TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/19 1045	Company TAPLS

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 4786 4573 2896	Cooler Temperature(s) °C and Other Remarks: IR94 1.8/1.3 CN

Ver: 09/20/2016

02/25/2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91048-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Laura Turpen
Project Manager I
2/19/2019 9:59 AM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/19/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Table of Contents

Cover Title Page 1

Organic Sample Data 3

GC Semi VOA 3

Method 8015B - DRO 3

Method 8015B - DRO Sample Data 3

Shipping and Receiving Documents 200

Client Chain of Custody 200

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_011.d
Lims ID: 720-91048-E-1-D
Client ID: DG-Z17S-0.5-1
Sample Type: Client
Inject. Date: 09-Feb-2019 15:23:34 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 041 Name: 720-0056518-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:41:24 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 10:41:24

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.527	2.508	0.019	211	NC	
	23 n-Decane		3.750			ND	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		19499	NC	
A	1 C9-C13	4.489	(2.508-6.469)		19499	NC	
A	57 C10-C12	4.708	(3.750-5.666)		14141	1.44	
	24 Dodecane		5.666			ND	
A	3 C9 - C17	5.850	(2.508-9.191)		89360	7.37	
A	47 C9 - C18	6.145	(2.508-9.782)		148278	13.8	
A	60 C10-C16	6.153	(3.750-8.556)		53411	4.85	
A	25 C9-C19	6.415	(2.508-10.322)		148278	12.1	
A	15 Kerosene	6.415	(2.508-10.322)		148278	13.7	
	26 C13	6.455	6.469	-0.014	3176	NC	
A	59 C12-C16	7.111	(5.666-8.556)		39270	4.01	
$	27 n-Decanoic Acid (Surr)		7.131			ND	
A	62 C10-C20	7.304	(3.750-10.858)		438374	44.7	
A	28 C9-C24	7.646	(2.508-12.785)		1010179	103.1	M
A	29 C9-C25	7.864	(2.508-13.221)		1010179	103.1	M
A	54 C10-C23	8.041	(3.750-12.332)		1009280	103.0	M
A	4 C10-C24	8.267	(3.750-12.785)		1009280	103.0	M
A	16 C10-C25	8.485	(3.750-13.221)		1009280	103.0	M
	45 Hexadecane	8.567	8.556	0.011	35050	NC	
A	14 C10-C26	8.695	(3.750-13.641)		1009280	103.0	M
A	67 C12-C22	8.763	(5.666-11.861)		634078	64.7	
A	5 Diesel	9.094	(3.750-14.438)		3004174	306.5	M
A	32 C10-C28	9.094	(3.750-14.438)		3004174	306.5	M
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		3004174	NC	M
A	30 C13-C22	9.165	(6.469-11.861)		632795	64.6	
	44 Heptadecane	9.208	9.191	0.017	58918	NC	
A	31 C12-C24	9.226	(5.666-12.785)		995139	101.5	M
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		9981342	NC	M
A	52 Mineral oil	9.835	(2.508-17.162)		7552740	657.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		7552740	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		2988750	304.9	M
A 17 C10-C36	10.456	(3.750-17.162)		9980443	1018.3	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		9245043	NC	
A 13 C9-C40	10.586	(2.508-18.664)		9245043	1134.8	
A 58 C16-C24	10.670	(8.556-12.785)		955869	97.5	M
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		9237371	1134.2	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		9209159	1131.0	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		9191898	1128.9	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		7384875	973.0	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		9077178	1115.1	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		6699231	776.4	
A 55 C23-C32	14.107	(12.332-15.882)		4236205	890.8	
39 n-Octacosane		14.438			ND	
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		5583750	916.6	
A 7 Motor Oil	14.973	(12.785-17.162)		5583750	916.6	
A 50 C25-C36	15.191	(13.221-17.162)		5267000	910.4	
A 10 C22-C40	15.262	(11.861-18.664)		7755413	927.7	
A 41 C23-C40	15.498	(12.332-18.664)		7478568	911.9	
A 8 C24-C40	15.724	(12.785-18.664)		7190103	903.8	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		5663756	966.6	
A 63 C29-C40	16.740	(14.816-18.664)		5123458	972.2	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

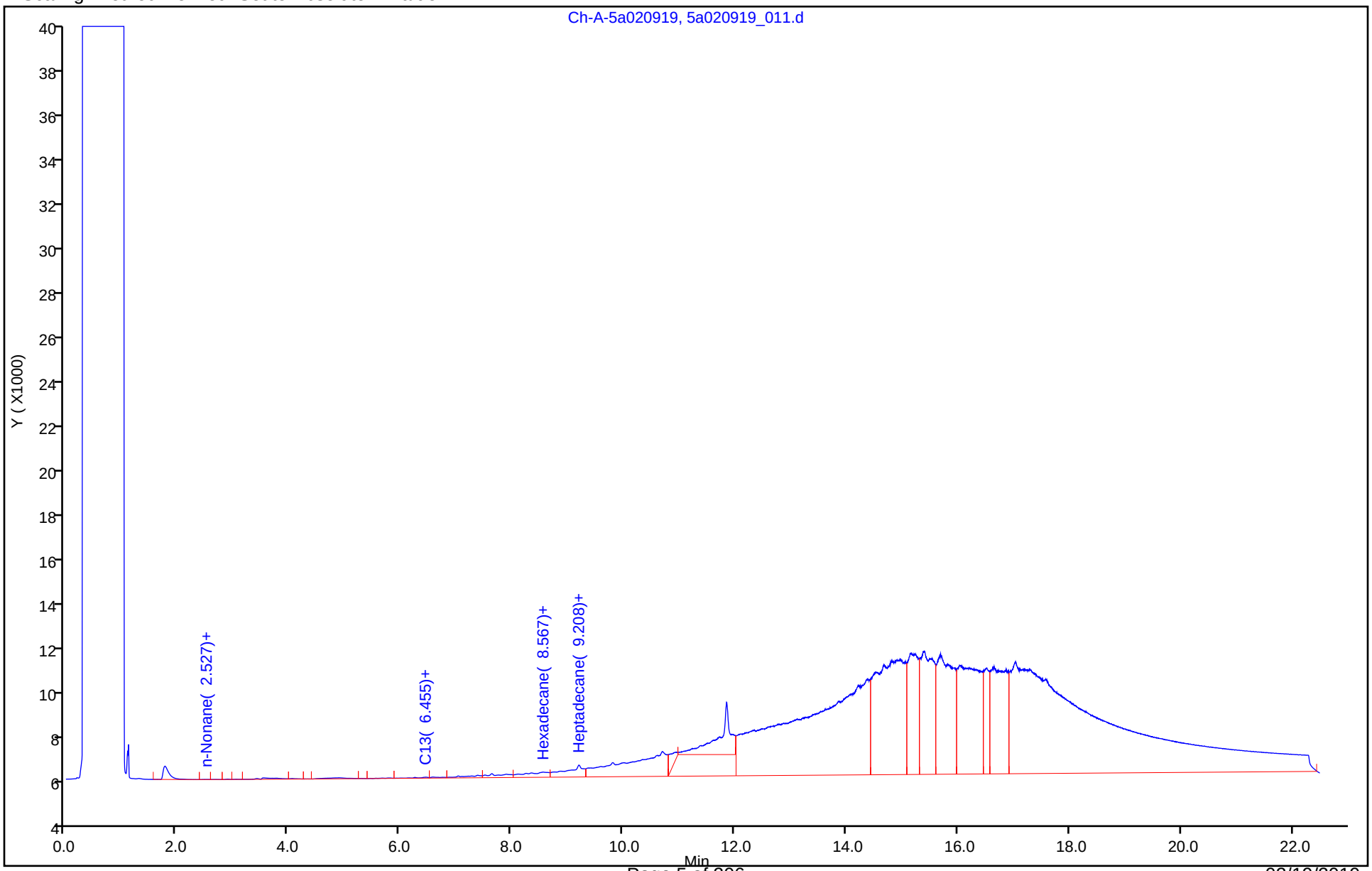
Report Date: 11-Feb-2019 10:41:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_011.d

Injection Date:	09-Feb-2019 15:23:34	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-1-D	Lab Sample ID:	720-91048-1	Worklist Smp#:	11
Client ID:	DG-Z17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

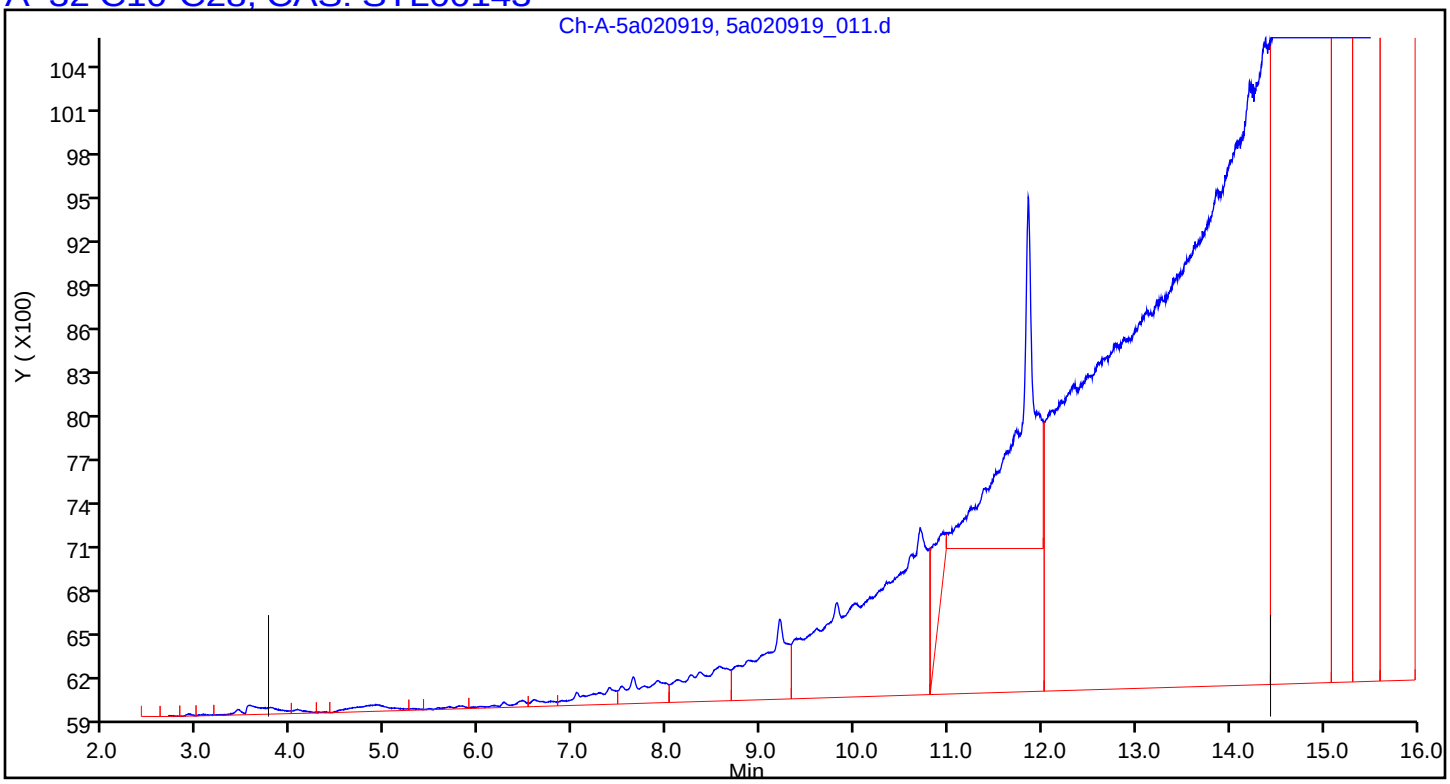


Report Date: 11-Feb-2019 10:41:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_011.d				
Injection Date:	09-Feb-2019 15:23:34	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-1-D	Lab Sample ID:	720-91048-1		
Client ID:	DG-Z17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

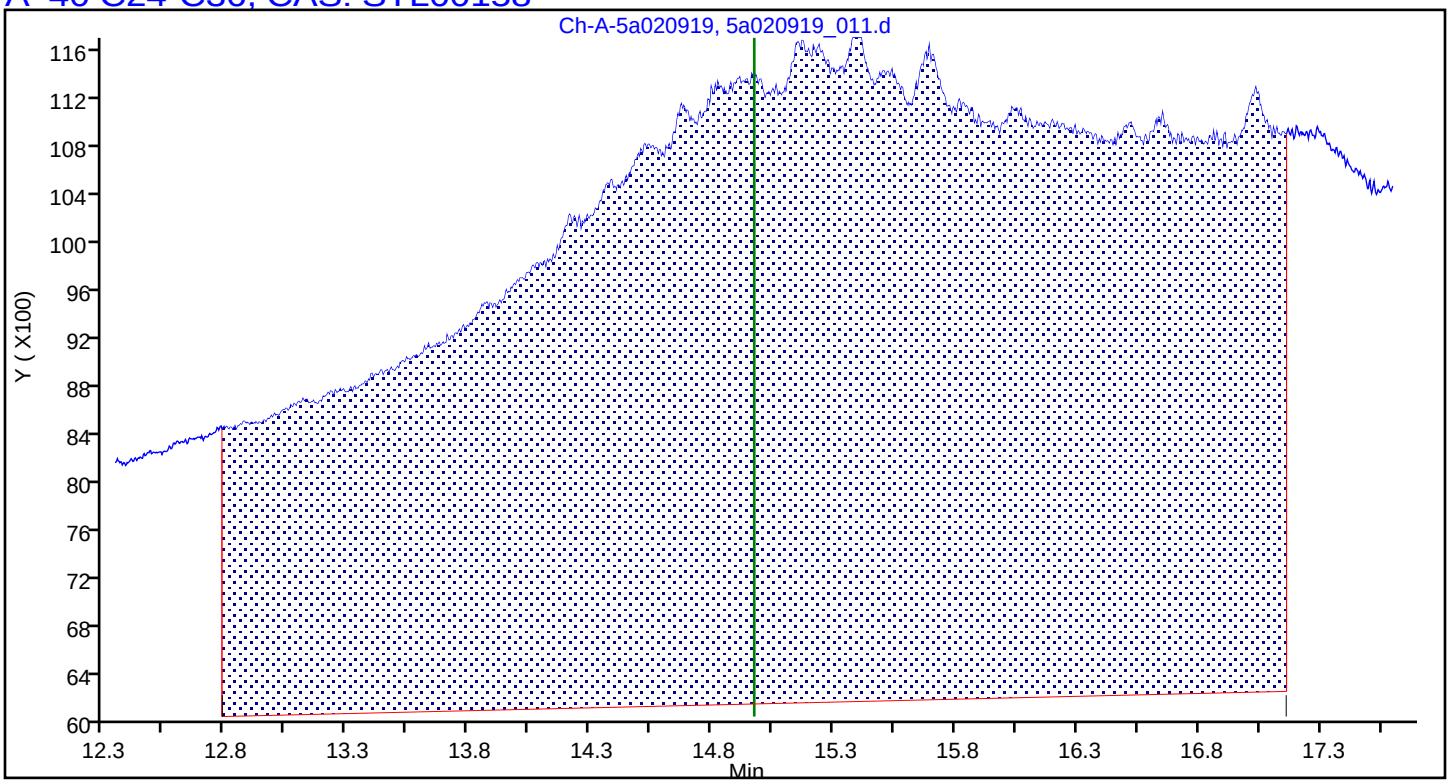


Report Date: 11-Feb-2019 10:41:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_011.d				
Injection Date:	09-Feb-2019 15:23:34	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-1-D	Lab Sample ID:	720-91048-1		
Client ID:	DG-Z17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

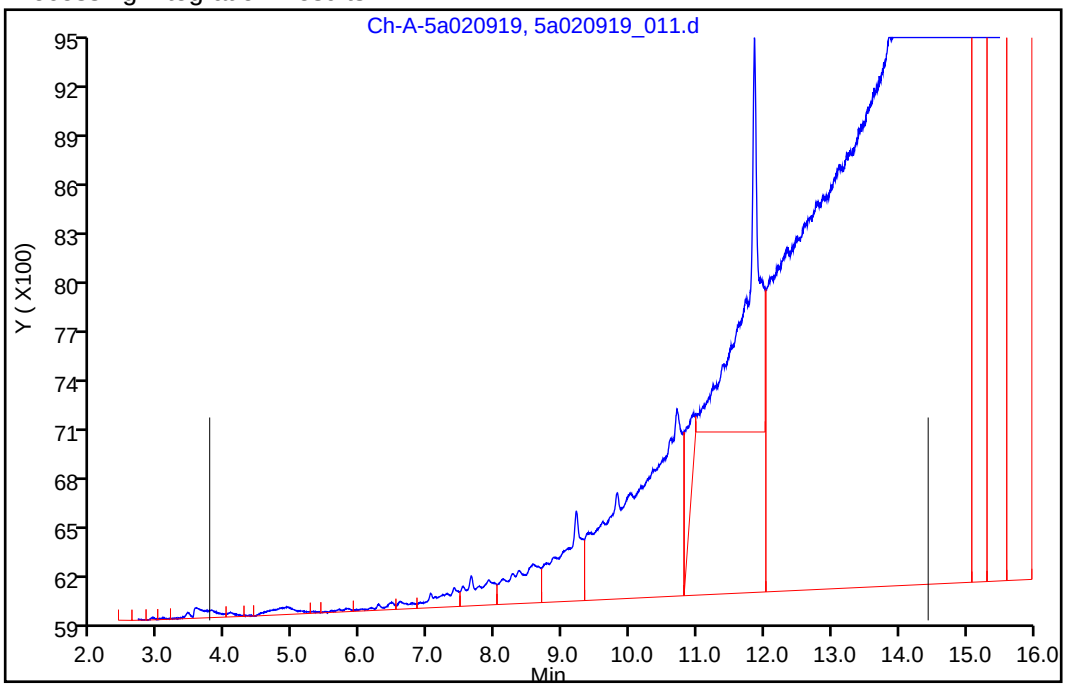
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_011.d				
Injection Date:	09-Feb-2019 15:23:34	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-1-D	Lab Sample ID:	720-91048-1		
Client ID:	DG-Z17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

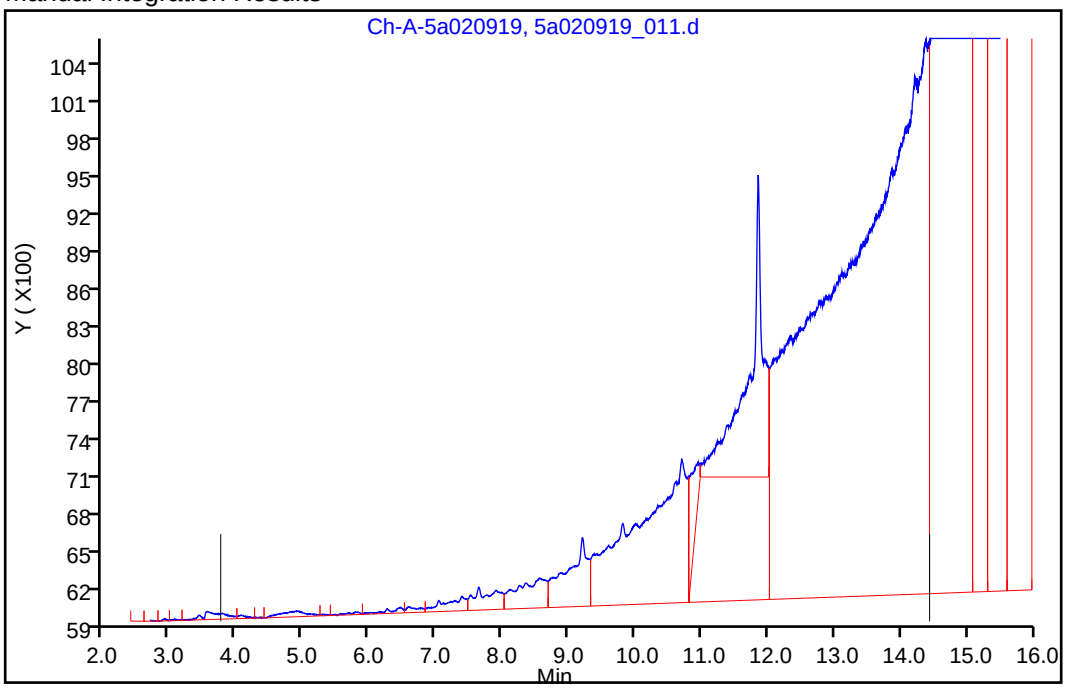
Processing Integration Results

RT: 9.09
Response: 828519
Amount: 84.534016



Manual Integration Results

RT: 9.09
Response: 3004174
Amount: 306.5167



Reviewer: hayashid, 11-Feb-2019 10:41:18

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

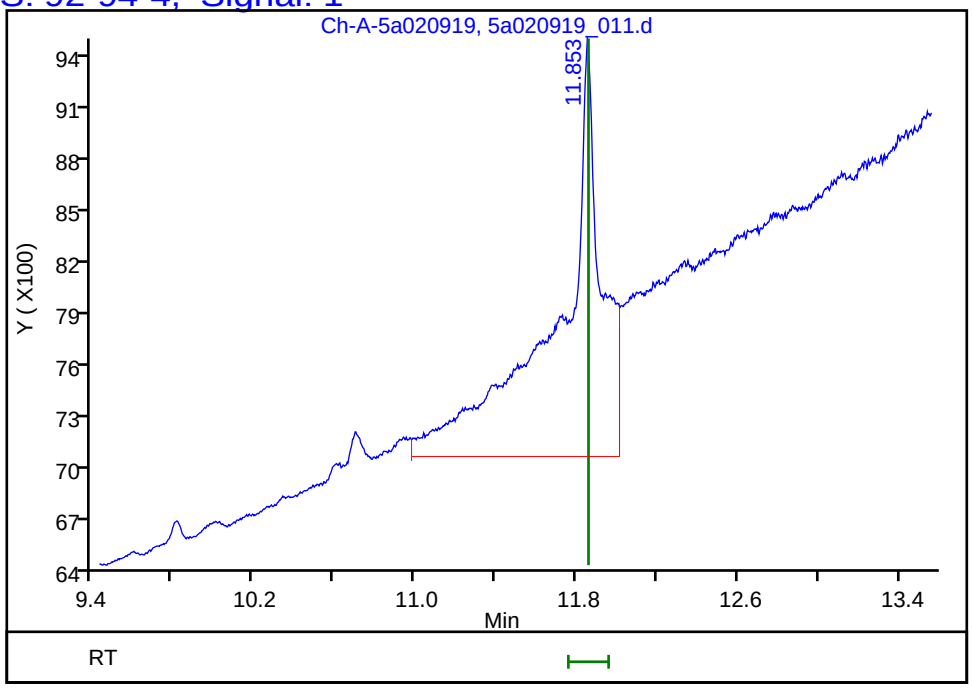
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_011.d

Injection Date:	09-Feb-2019 15:23:34	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-1-D	Lab Sample ID:	720-91048-1		
Client ID:	DG-Z17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.85
Response: 180761
Amount: 15.158265



Reviewer: hayashid, 11-Feb-2019 10:41:24
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_012.d
Lims ID: 720-91048-E-2-D
Client ID: DG-Z17S-3.5-4
Sample Type: Client
Inject. Date: 09-Feb-2019 15:53:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 042 Name: 720-0056518-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:42:00 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 10:42:31

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.508			ND	
	23 n-Decane	3.778	3.750	0.028	273	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		4941	NC	
A	1 C9-C13	4.489	(2.508-6.469)		4941	NC	
A	57 C10-C12	4.708	(3.750-5.666)		1998	0.2039	
	24 Dodecane		5.666			ND	
A	3 C9 - C17	5.850	(2.508-9.191)		7755	0.6398	
A	47 C9 - C18	6.145	(2.508-9.782)		79809	7.41	M
A	60 C10-C16	6.153	(3.750-8.556)		6576	0.5966	
A	25 C9-C19	6.415	(2.508-10.322)		79809	6.54	M
A	15 Kerosene	6.415	(2.508-10.322)		79809	7.40	M
	26 C13	6.444	6.469	-0.025	923	NC	
A	59 C12-C16	7.111	(5.666-8.556)		4578	0.4671	
$	27 n-Decanoic Acid (Surr)		7.131			ND	
A	62 C10-C20	7.304	(3.750-10.858)		78630	8.02	M
A	28 C9-C24	7.646	(2.508-12.785)		79809	8.14	M
A	29 C9-C25	7.864	(2.508-13.221)		79809	8.14	M
A	54 C10-C23	8.041	(3.750-12.332)		78630	8.02	M
A	4 C10-C24	8.267	(3.750-12.785)		78630	8.02	M
A	16 C10-C25	8.485	(3.750-13.221)		78630	8.02	M
	45 Hexadecane		8.556			ND	
A	14 C10-C26	8.695	(3.750-13.641)		78630	8.02	M
A	67 C12-C22	8.763	(5.666-11.861)		76632	7.82	M
A	5 Diesel	9.094	(3.750-14.438)		4872055	497.1	M
A	32 C10-C28	9.094	(3.750-14.438)		4872055	497.1	M
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		4872055	NC	M
A	30 C13-C22	9.165	(6.469-11.861)		75791	7.73	M
	44 Heptadecane	9.208	9.191	0.017	72054	NC	
A	31 C12-C24	9.226	(5.666-12.785)		76632	7.82	M
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		17119428	NC	M
A	52 Mineral oil	9.835	(2.508-17.162)		13441858	1170.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		13441858	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		4869216	496.8	M
A 17 C10-C36	10.456	(3.750-17.162)		17118249	1746.6	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		15876118	NC	
A 13 C9-C40	10.586	(2.508-18.664)		15876118	1980.0	
A 58 C16-C24	10.670	(8.556-12.785)		72054	7.35	M
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		15873355	1979.8	
$ 34 p-Terphenyl		11.859			ND	
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		15861762	1978.5	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		15853103	1977.6	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		13352626	1759.4	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		15786886	1970.4	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		12682921	1469.9	
A 55 C23-C32	14.107	(12.332-15.882)		8512197	1790.0	
39 n-Octacosane		14.438			ND	
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		11089746	1820.3	
A 7 Motor Oil	14.973	(12.785-17.162)		11089746	1820.3	
A 50 C25-C36	15.191	(13.221-17.162)		10514570	1817.4	
A 10 C22-C40	15.262	(11.861-18.664)		14351543	1716.7	
A 41 C23-C40	15.498	(12.332-18.664)		13928439	1698.3	
A 8 C24-C40	15.724	(12.785-18.664)		13435356	1688.9	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		10429809	2114.2	
A 63 C29-C40	16.740	(14.816-18.664)		9243315	2133.4	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

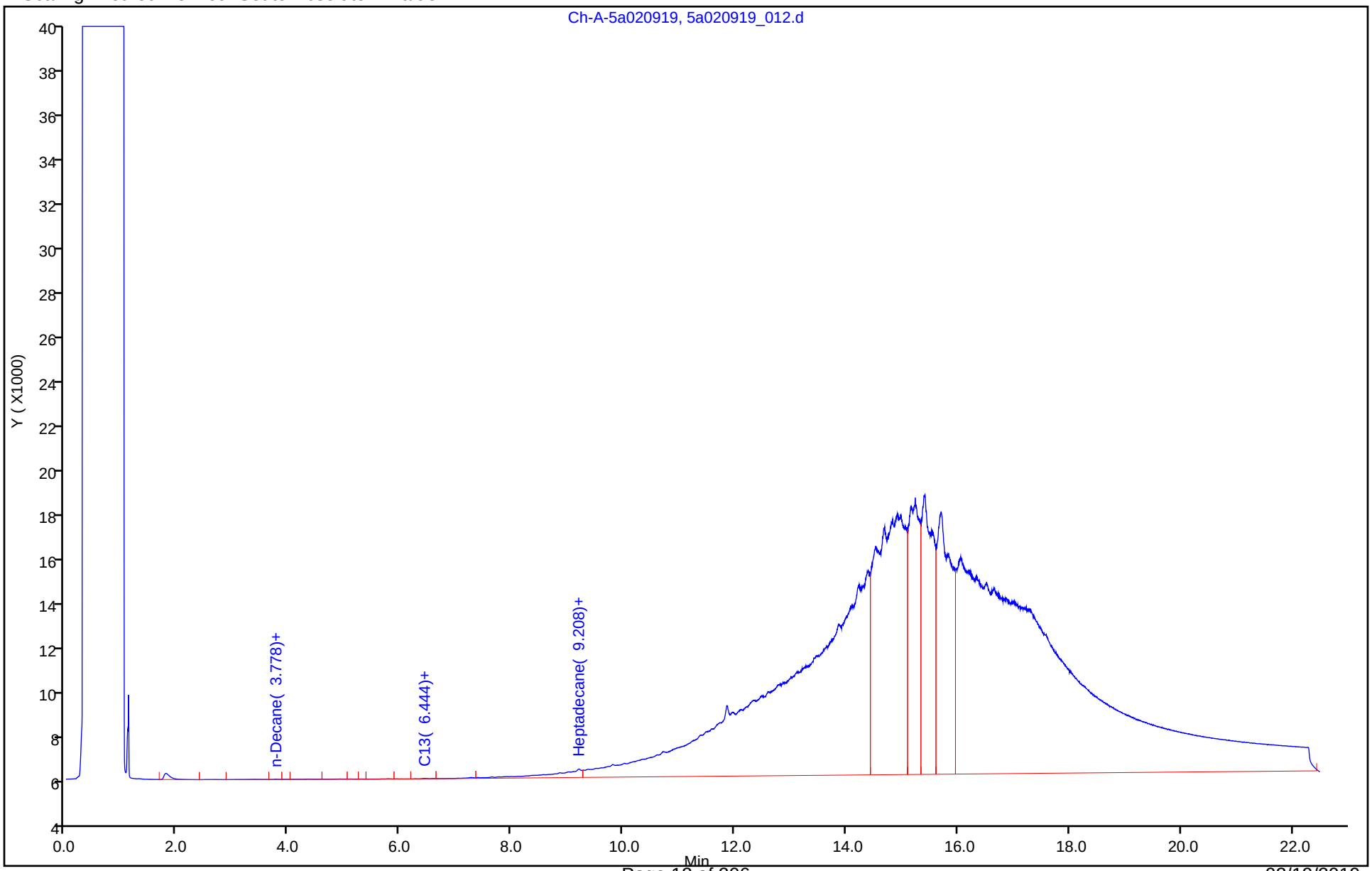
M - Manually Integrated

Report Date: 11-Feb-2019 10:42:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_012.d				
Injection Date:	09-Feb-2019 15:53:00	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-2-D	Lab Sample ID:	720-91048-2	Worklist Smp#:	12
Client ID:	DG-Z17S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

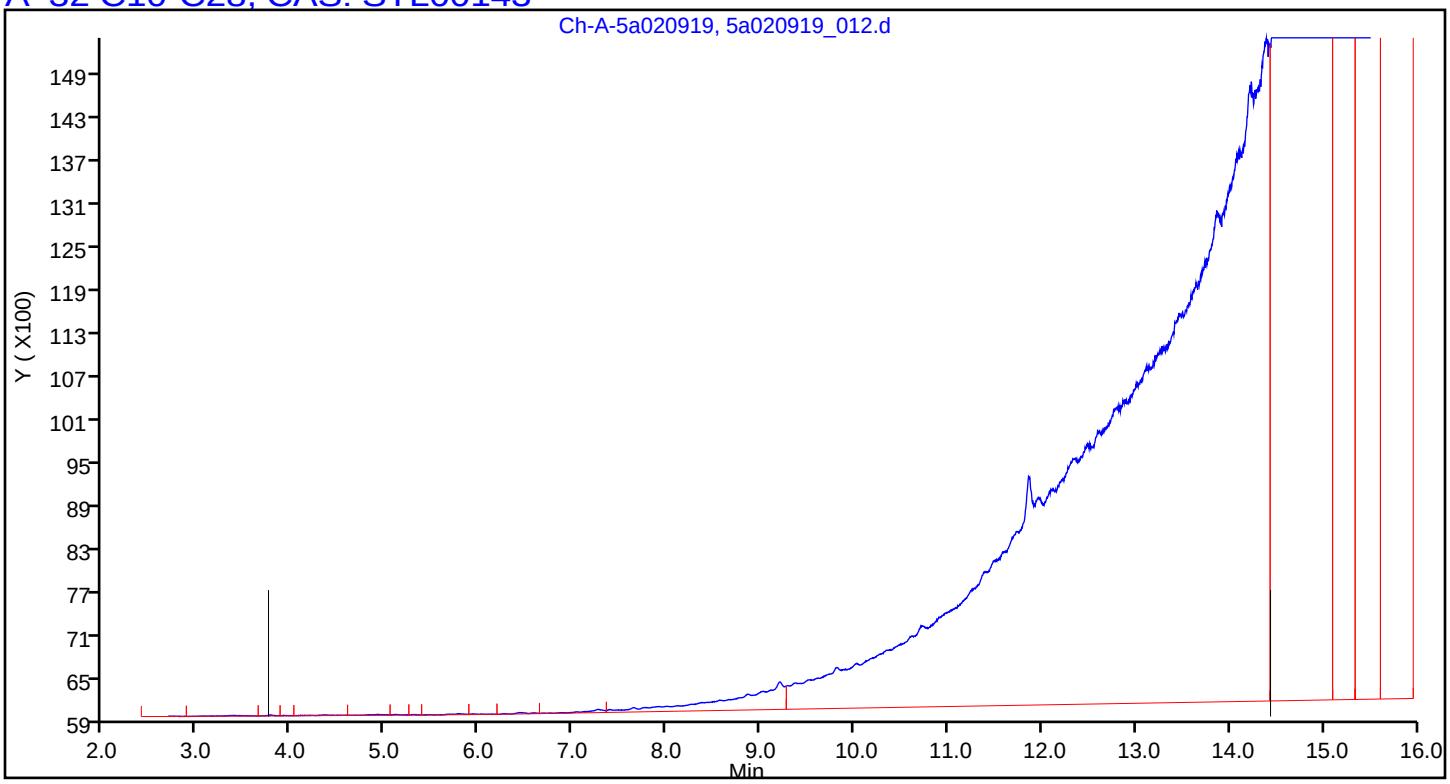


Report Date: 11-Feb-2019 10:42:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_012.d				
Injection Date:	09-Feb-2019 15:53:00	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-2-D	Lab Sample ID:	720-91048-2		
Client ID:	DG-Z17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

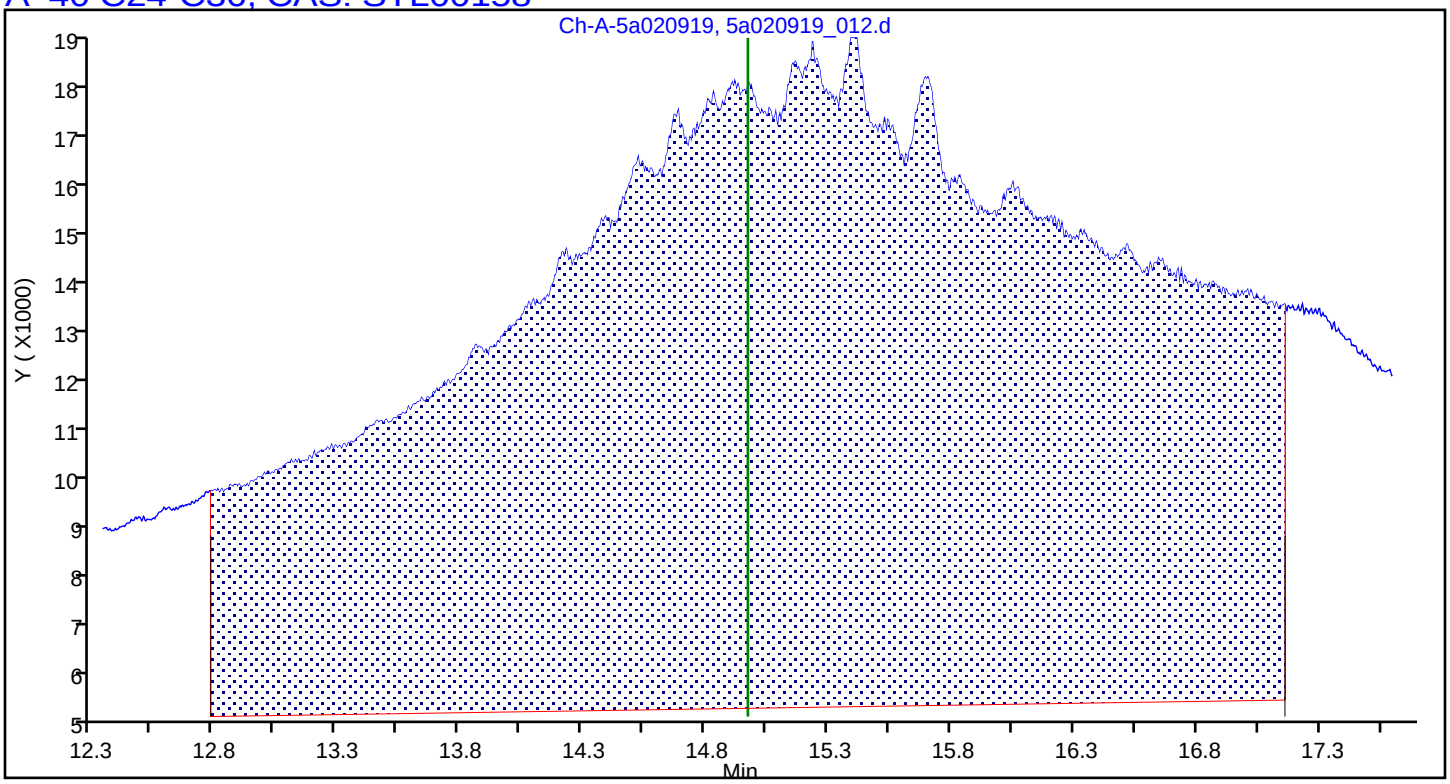


Report Date: 11-Feb-2019 10:42:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_012.d				
Injection Date:	09-Feb-2019 15:53:00	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-2-D	Lab Sample ID:	720-91048-2		
Client ID:	DG-Z17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

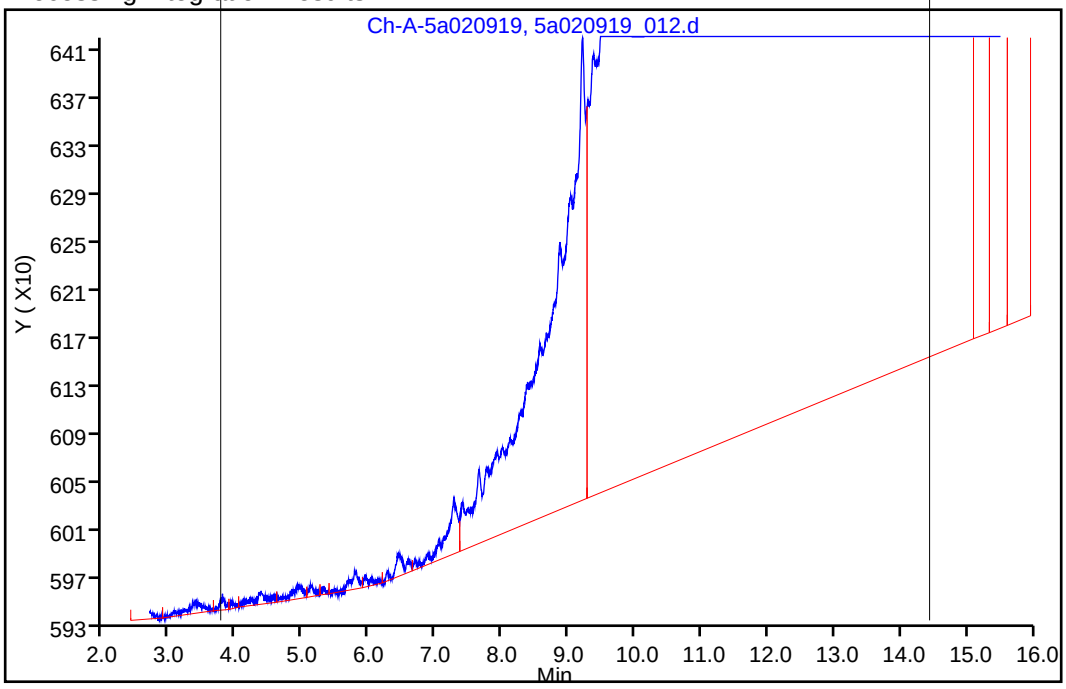
Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_012.d
Injection Date: 09-Feb-2019 15:53:00 Instrument ID: CHDRO5
Lims ID: 720-91048-E-2-D Lab Sample ID: 720-91048-2
Client ID: DG-Z17S-3.5-4
Operator ID: manager ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Method: DRO5A Limit Group: DRO
Column: Detector GC FID1A

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

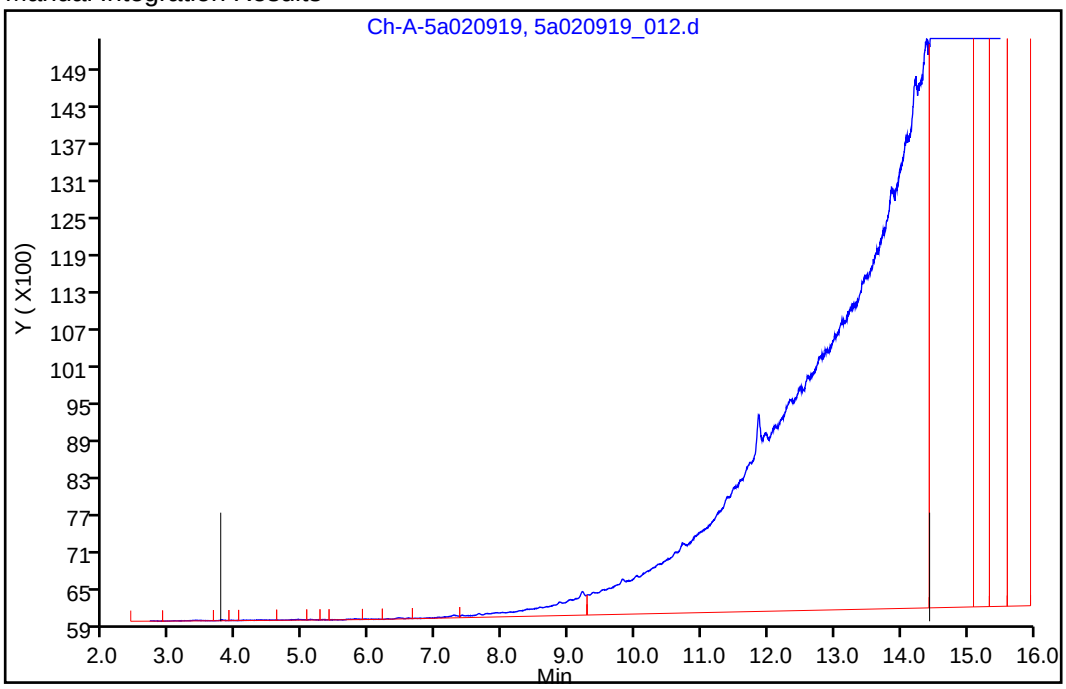
Processing Integration Results

RT: 9.09
Response: 78630
Amount: 8.022640



Manual Integration Results

RT: 9.09
Response: 4872055
Amount: 497.0971



Reviewer: hayashid, 11-Feb-2019 10:41:57
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_013.d
Lims ID: 720-91048-E-3-D
Client ID: DG-Z17S-7.5-8
Sample Type: Client
Inject. Date: 09-Feb-2019 16:22:35 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 003 Name: 720-0056518-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:45:22 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 10:45:22

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.512	2.508	0.004	319	NC	
	23 n-Decane		3.750			ND	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		1344525	NC	
A	1 C9-C13	4.489	(2.508-6.469)		1344525	NC	
A	57 C10-C12	4.708	(3.750-5.666)		488062	49.8	
	24 Dodecane	5.633	5.666	-0.033	443455	NC	
A	3 C9 - C17	5.850	(2.508-9.191)		6409441	528.8	
A	47 C9 - C18	6.145	(2.508-9.782)		8321515	773.1	
A	60 C10-C16	6.153	(3.750-8.556)		5146083	466.9	
A	25 C9-C19	6.415	(2.508-10.322)		10222567	837.5	
A	15 Kerosene	6.415	(2.508-10.322)		10222567	947.9	
	26 C13	6.427	6.469	-0.042	225051	NC	
A	59 C12-C16	7.111	(5.666-8.556)		5101476	520.5	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		11299899	1152.9	
A	28 C9-C24	7.646	(2.508-12.785)		12542494	1279.7	
A	29 C9-C25	7.864	(2.508-13.221)		12790312	1305.0	
A	54 C10-C23	8.041	(3.750-12.332)		12206929	1245.5	
A	4 C10-C24	8.267	(3.750-12.785)		12517076	1277.1	
A	16 C10-C25	8.485	(3.750-13.221)		12764894	1302.4	
	45 Hexadecane	8.589	8.556	0.033	918353	NC	
A	14 C10-C26	8.695	(3.750-13.641)		13175172	1344.3	
A	67 C12-C22	8.763	(5.666-11.861)		11696329	1193.4	
A	5 Diesel	9.094	(3.750-14.438)		13897581	1418.0	
A	32 C10-C28	9.094	(3.750-14.438)		13897581	1418.0	
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		13897581	NC	
A	30 C13-C22	9.165	(6.469-11.861)		10646880	1086.3	
	44 Heptadecane	9.210	9.191	0.019	1380018	NC	
A	31 C12-C24	9.226	(5.666-12.785)		12472469	1272.6	
	49 n-Octadecane	9.815	9.782	0.033	1044286	NC	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		17111965	NC	
A	52 Mineral oil	9.835	(2.508-17.162)		17974157	1564.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		17974157	NC	
33 C19	10.275	10.322	-0.047	856766	NC	
A 64 C13-C28	10.454	(6.469-14.438)		12803525	1306.3	
A 17 C10-C36	10.456	(3.750-17.162)		17086547	1743.3	
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		19458195	NC	
A 13 C9-C40	10.586	(2.508-18.664)		19458195	2436.6	
A 58 C16-C24	10.670	(8.556-12.785)		7370993	752.1	
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		19423544	2432.2	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		18938721	2370.6	
36 Tricosane	12.403	12.332	0.071	310147	NC	
A 66 C13-C40	12.567	(6.469-18.664)		18125615	2267.1	
37 n-Tetracosane	12.791	12.785	0.006	247818	NC	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		12403226	1634.3	
38 C25	13.236	13.221	0.015	251948	NC	
A 19 C16-C40	13.610	(8.556-18.664)		13887264	1728.3	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		5036459	583.7	
A 55 C23-C32	14.107	(12.332-15.882)		3838695	807.2	
39 n-Octacosane	14.529	14.438	0.091	298124	NC	
65 C29	14.908	14.816	0.092	527576	NC	
A 40 C24-C36	14.973	(12.785-17.162)		4739578	778.0	M
A 7 Motor Oil	14.973	(12.785-17.162)		3045858	500.0	
A 50 C25-C36	15.191	(13.221-17.162)		2875559	497.0	
A 10 C22-C40	15.262	(11.861-18.664)		4279865	511.9	
A 41 C23-C40	15.498	(12.332-18.664)		4022636	490.5	
A 8 C24-C40	15.724	(12.785-18.664)		3836446	482.3	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		3039786	478.3	
A 63 C29-C40	16.740	(14.816-18.664)		2743690	474.6	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

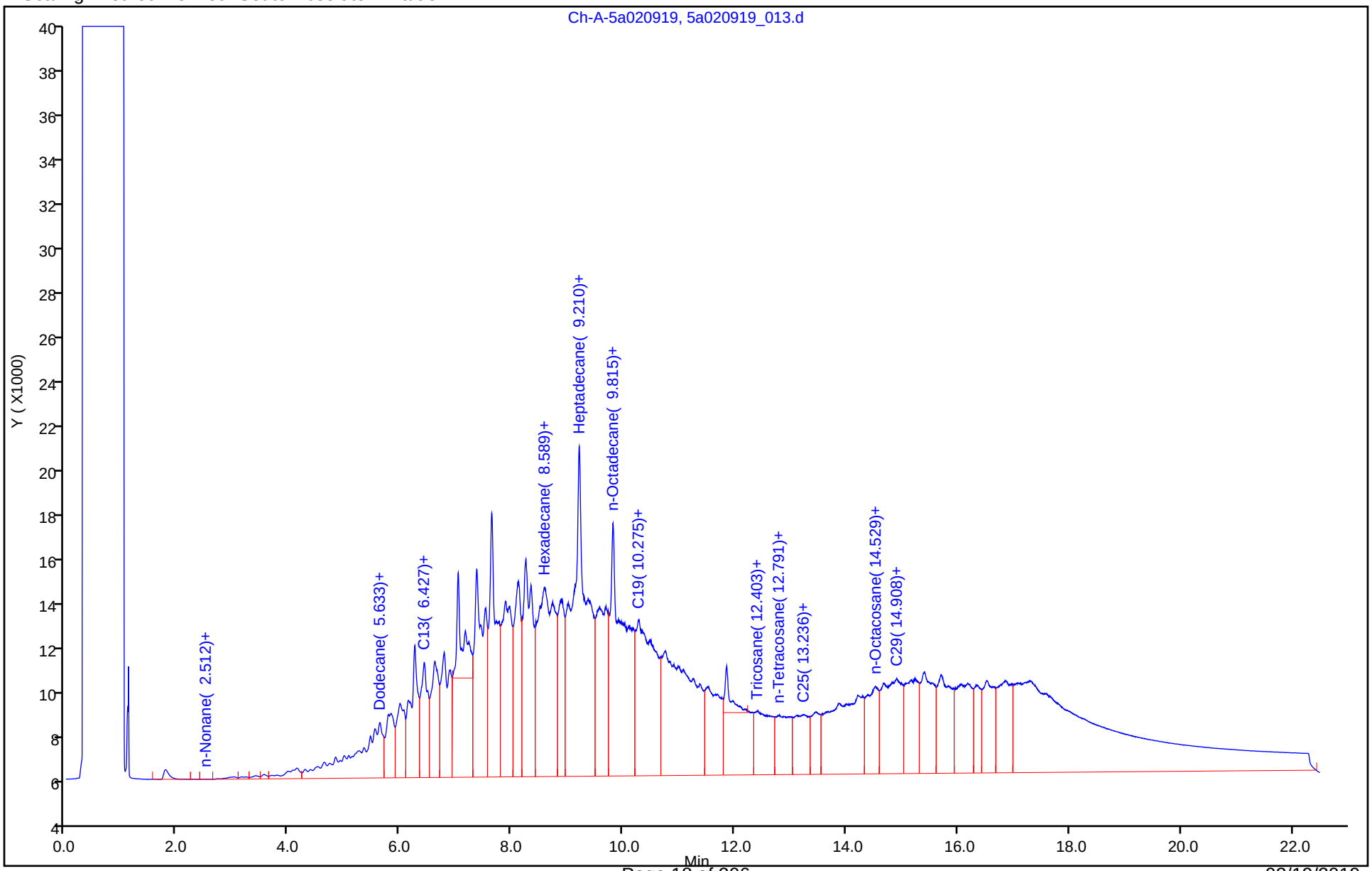
Report Date: 11-Feb-2019 10:45:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_013.d

Injection Date:	09-Feb-2019 16:22:35	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-3-D	Lab Sample ID:	720-91048-3	Worklist Smp#:	13
Client ID:	DG-Z17S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

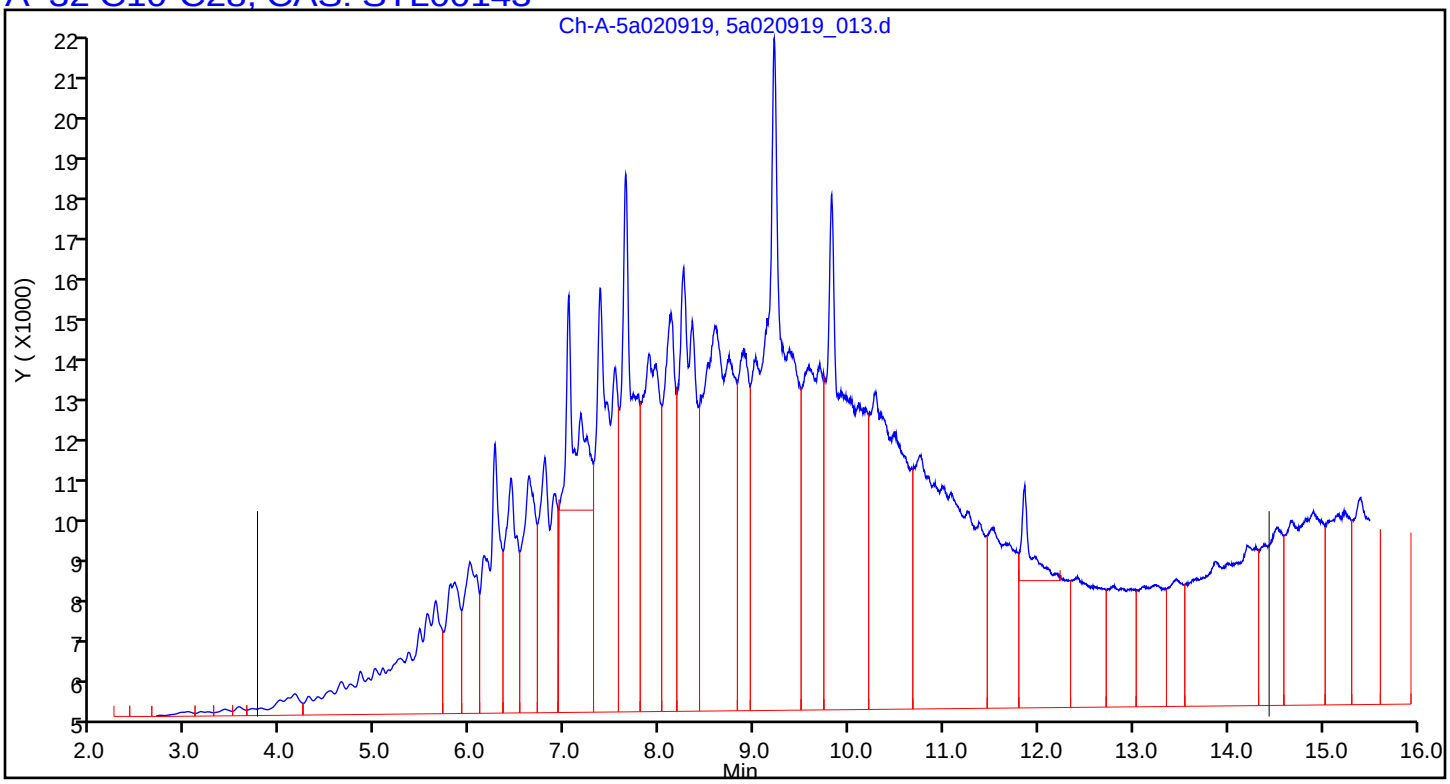


Report Date: 11-Feb-2019 10:45:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_013.d				
Injection Date:	09-Feb-2019 16:22:35	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-3-D	Lab Sample ID:	720-91048-3		
Client ID:	DG-Z17S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

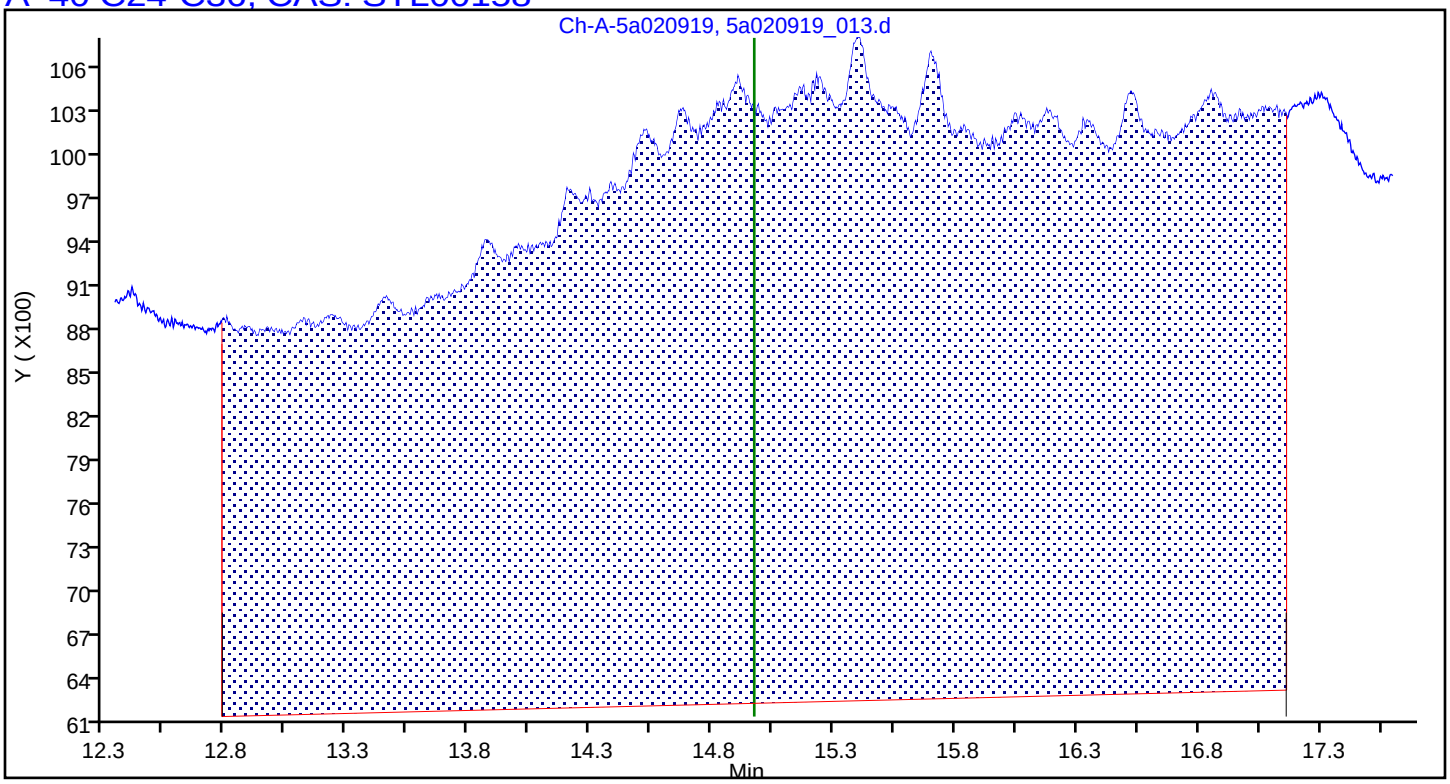


Report Date: 11-Feb-2019 10:45:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_013.d				
Injection Date:	09-Feb-2019 16:22:35	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-3-D	Lab Sample ID:	720-91048-3		
Client ID:	DG-Z17S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

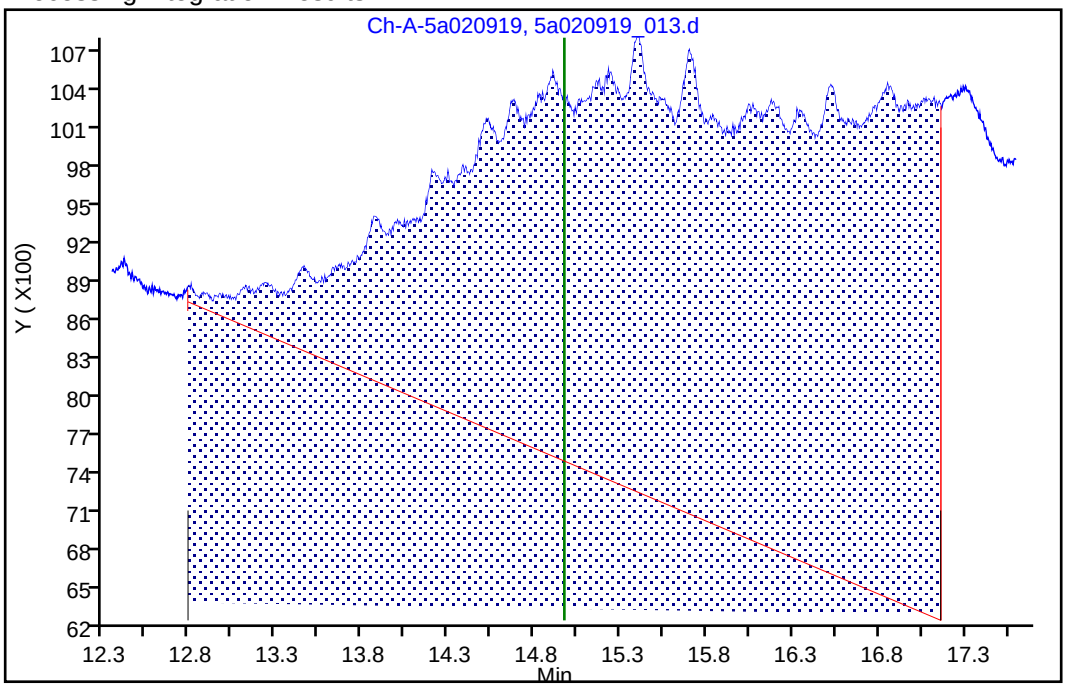
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Injection Date:	09-Feb-2019 16:22:35	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-3-D	Lab Sample ID:	720-91048-3		
Client ID:	DG-Z17S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.973, CAS: STL00158

Signal: 1

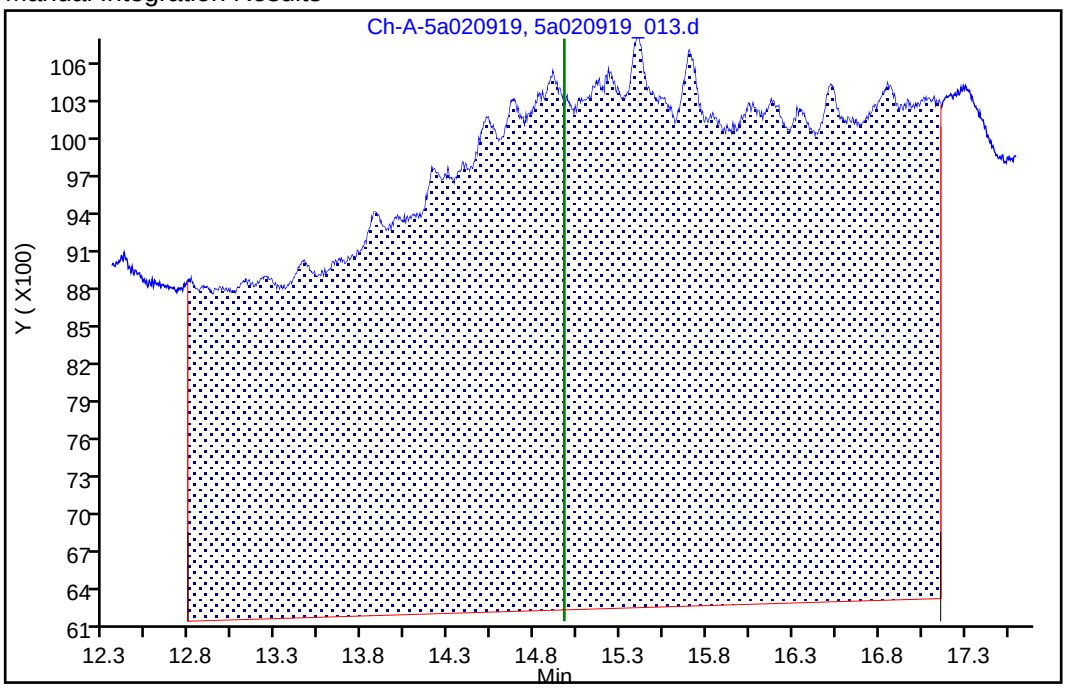
Processing Integration Results

RT: 14.97
Response: 3045858
Amount: 499.9672



Manual Integration Results

RT: 14.97
Response: 4739578
Amount: 777.9856



Reviewer: hayashid, 11-Feb-2019 10:45:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

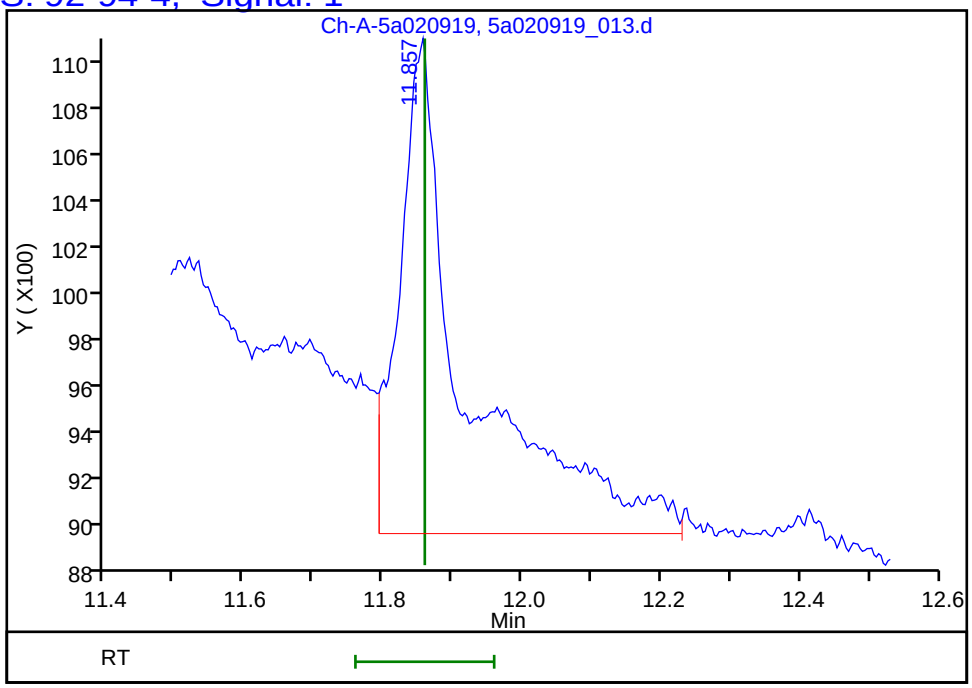
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_013.d				
Injection Date:	09-Feb-2019 16:22:35	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-3-D	Lab Sample ID:	720-91048-3		
Client ID:	DG-Z17S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 71803
Amount: 6.021260



Reviewer: hayashid, 11-Feb-2019 10:45:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_014.d
Lims ID: 720-91048-E-4-D
Client ID: DG-Y19S-0.5-1
Sample Type: Client
Inject. Date: 09-Feb-2019 16:52:04 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 004 Name: 720-0056518-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:45:57 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 10:45:57

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.508			ND	
	23 n-Decane		3.750			ND	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		4131	NC	
A	1 C9-C13	4.489	(2.508-6.469)		4131	NC	
A	57 C10-C12	4.708	(3.750-5.666)		1624	0.1657	
	24 Dodecane		5.666			ND	
A	3 C9 - C17	5.850	(2.508-9.191)		11415	0.9418	
A	47 C9 - C18	6.145	(2.508-9.782)		11415	1.06	
A	60 C10-C16	6.153	(3.750-8.556)		8857	0.8036	
A	25 C9-C19	6.415	(2.508-10.322)		11415	0.9352	
A	15 Kerosene	6.415	(2.508-10.322)		11415	1.06	
	26 C13	6.458	6.469	-0.011	1123	NC	
A	59 C12-C16	7.111	(5.666-8.556)		7233	0.7380	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		199820	20.4	
A	28 C9-C24	7.646	(2.508-12.785)		200570	20.5	M
A	29 C9-C25	7.864	(2.508-13.221)		200570	20.5	M
A	54 C10-C23	8.041	(3.750-12.332)		199820	20.4	M
A	4 C10-C24	8.267	(3.750-12.785)		199820	20.4	M
A	16 C10-C25	8.485	(3.750-13.221)		199820	20.4	M
	45 Hexadecane	8.549	8.556	-0.007	1495	NC	
A	14 C10-C26	8.695	(3.750-13.641)		199820	20.4	M
A	67 C12-C22	8.763	(5.666-11.861)		198196	20.2	
A	5 Diesel	9.094	(3.750-14.438)		1532845	156.4	M
A	32 C10-C28	9.094	(3.750-14.438)		1532845	156.4	M
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		1532845	NC	M
A	30 C13-C22	9.165	(6.469-11.861)		197562	20.2	
	44 Heptadecane		9.191			ND	
A	31 C12-C24	9.226	(5.666-12.785)		198196	20.2	M
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		4930939	NC	M
A	52 Mineral oil	9.835	(2.508-17.162)		6825464	594.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		6825464	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		1530587	156.2	M
A 17 C10-C36	10.456	(3.750-17.162)		4930189	503.0	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		9229838	NC	
A 13 C9-C40	10.586	(2.508-18.664)		9229838	1132.9	
A 58 C16-C24	10.670	(8.556-12.785)		192458	19.6	M
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		9228224	1133.0	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		9219957	1132.3	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		9213676	1131.7	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		6775635	892.8	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		9180009	1128.2	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		6317665	732.2	
A 55 C23-C32	14.107	(12.332-15.882)		3802758	799.7	
39 n-Octacosane		14.438			ND	
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		5976241	981.0	
A 7 Motor Oil	14.973	(12.785-17.162)		5976241	981.0	
A 50 C25-C36	15.191	(13.221-17.162)		5794423	1001.5	
A 10 C22-C40	15.262	(11.861-18.664)		8532802	1020.7	
A 41 C23-C40	15.498	(12.332-18.664)		8431299	1028.1	
A 8 C24-C40	15.724	(12.785-18.664)		8295115	1042.7	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		7176540	1283.6	
A 63 C29-C40	16.740	(14.816-18.664)		6676264	1347.9	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

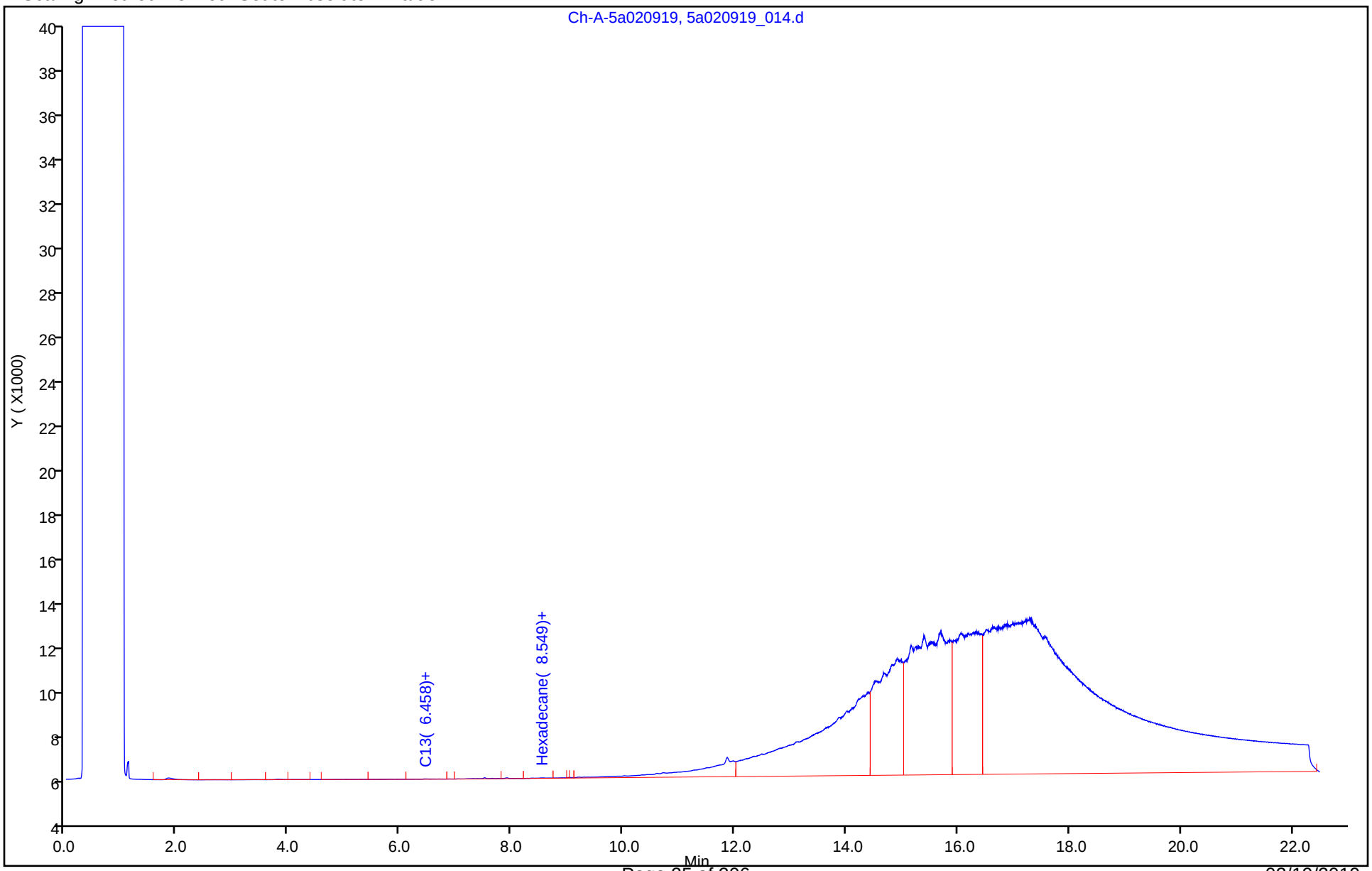
Report Date: 11-Feb-2019 10:45:58 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_014.d

Injection Date:	09-Feb-2019 16:52:04	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-4-D	Lab Sample ID:	720-91048-4	Worklist Smp#:	14
Client ID:	DG-Y19S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

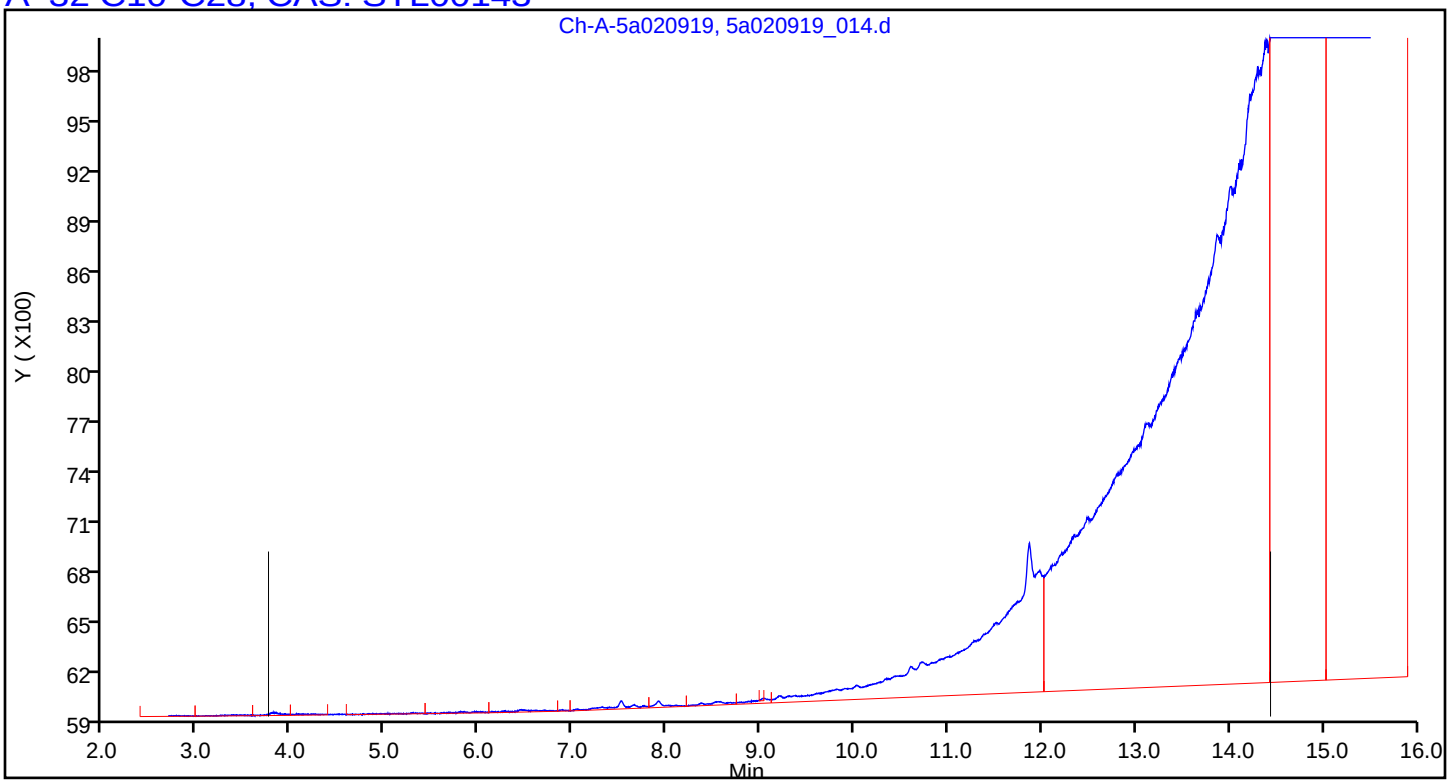


Report Date: 11-Feb-2019 10:45:59 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_014.d				
Injection Date:	09-Feb-2019 16:52:04	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-4-D	Lab Sample ID:	720-91048-4		
Client ID:	DG-Y19S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_32 C10-C28, CAS: STL00143

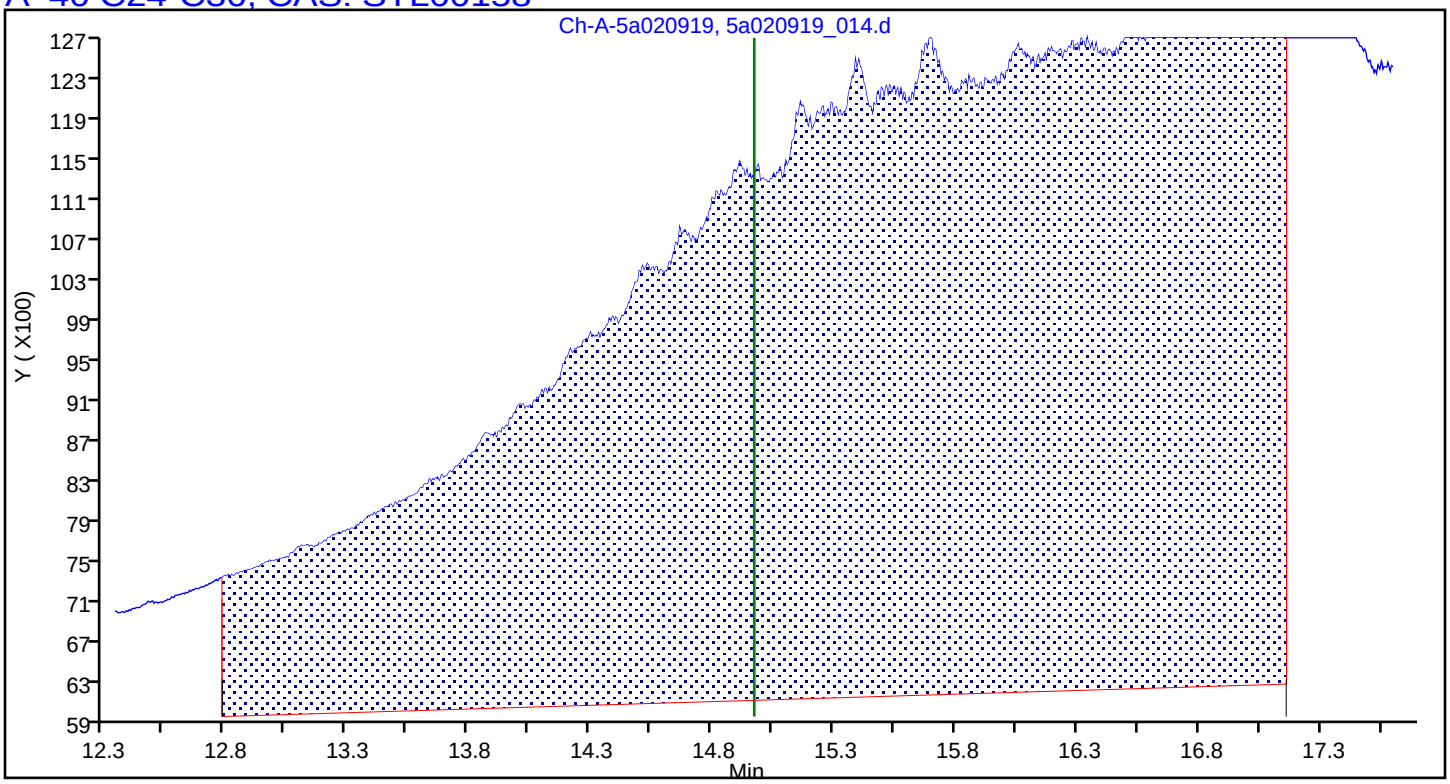


Report Date: 11-Feb-2019 10:46:01 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_014.d				
Injection Date:	09-Feb-2019 16:52:04	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-4-D	Lab Sample ID:	720-91048-4		
Client ID:	DG-Y19S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

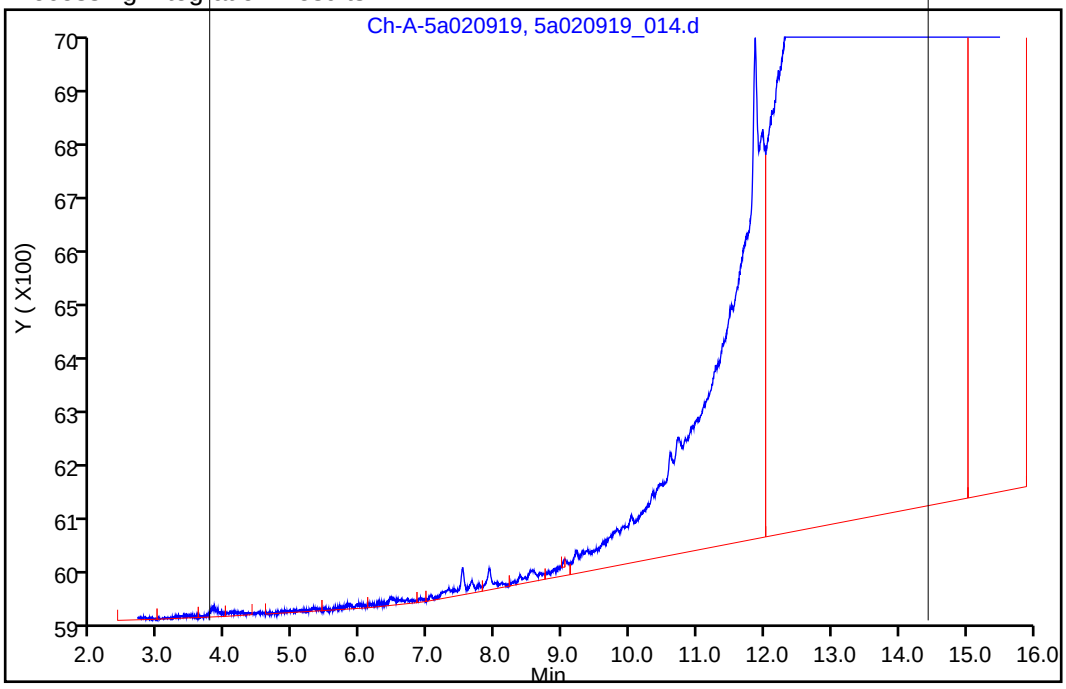
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_014.d				
Injection Date:	09-Feb-2019 16:52:04	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-4-D	Lab Sample ID:	720-91048-4		
Client ID:	DG-Y19S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

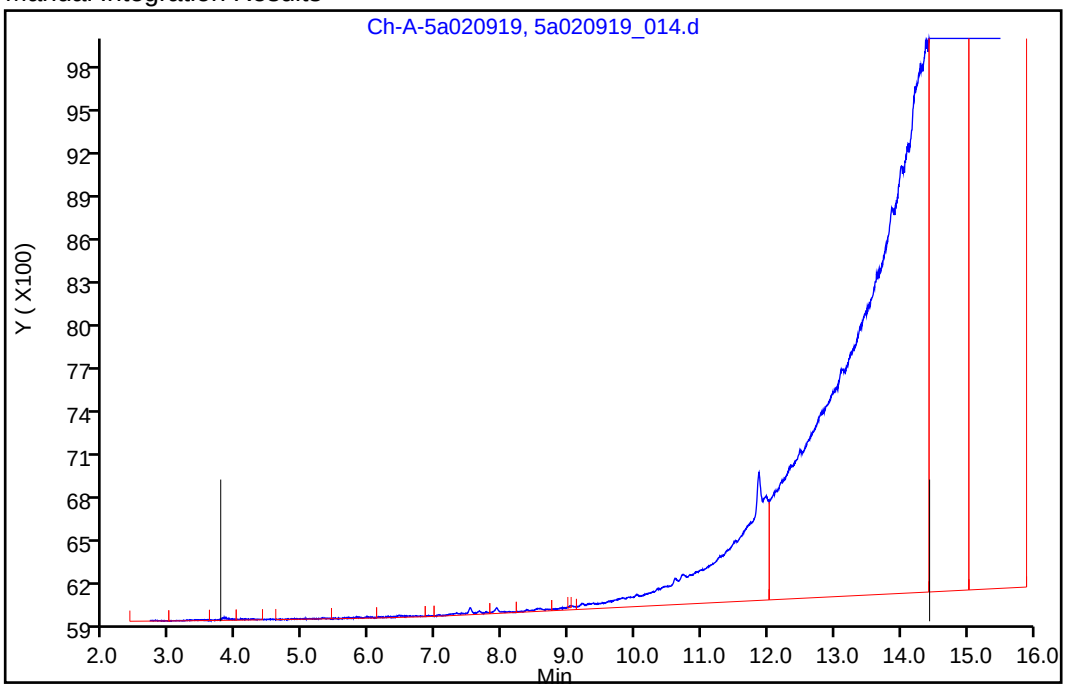
Processing Integration Results

RT: 9.09
Response: 199688
Amount: 20.374220



Manual Integration Results

RT: 9.09
Response: 1532845
Amount: 156.3966



Reviewer: hayashid, 11-Feb-2019 10:45:52

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

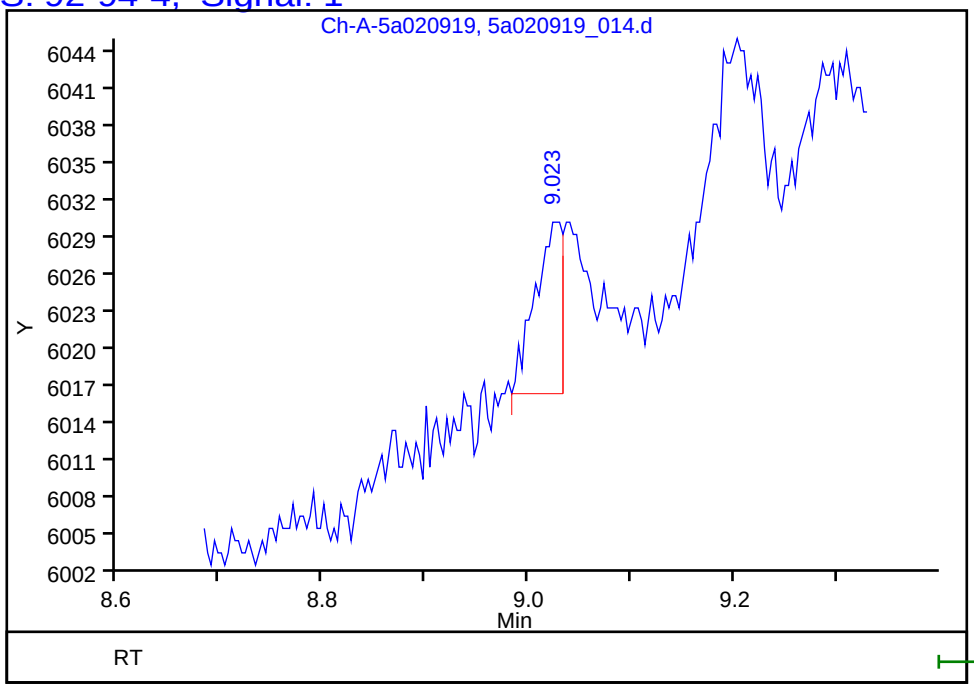
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_014.d

Injection Date:	09-Feb-2019 16:52:04	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-4-D	Lab Sample ID:	720-91048-4		
Client ID:	DG-Y19S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 9.02
Response: 132
Amount: 0.011069



Reviewer: hayashid, 11-Feb-2019 10:45:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_014.d
Lims ID: 720-91048-E-5-G
Client ID: DG-Y19S-3.5-4
Sample Type: Client
Inject. Date: 06-Feb-2019 15:56:49 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 103 Name: 720-0056465-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\DRO5B.m
Limit Group: DRO
Last Update: 07-Feb-2019 12:25:03 Calib Date: 06-Feb-2019 10:26:29
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0321

First Level Reviewer: luj Date: 07-Feb-2019 12:25:03

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.681	2.643	0.038	268	NC	
	23 n-Decane	3.890	3.859	0.031	2040	NC	
A	21 Stoddard Solvent	4.597	(2.643-6.552)		11022	0.9696	
A	1 C9-C13	4.597	(2.643-6.552)		11022	0.8702	
A	57 C10-C12	4.806	(3.859-5.754)		6456	0.6576	
	24 Dodecane	5.718	5.754	-0.036	886	NC	
A	3 C9 - C17	5.947	(2.643-9.251)		59183	4.31	
A	47 C9 - C18	6.236	(2.643-9.828)		84544	7.53	
A	60 C10-C16	6.242	(3.859-8.624)		46506	3.83	
A	25 C9-C19	6.513	(2.643-10.382)		120766	8.76	
A	15 Kerosene	6.513	(2.643-10.382)		120766	10.7	
	26 C13	6.514	6.552	-0.038	1004	NC	
$	27 n-Decanoic Acid (Surr)		7.167			ND	U
A	59 C12-C16	7.189	(5.754-8.624)		40936	4.17	
A	62 C10-C20	7.387	(3.859-10.915)		195173	19.9	
A	28 C9-C24	7.738	(2.643-12.833)		600669	61.2	
A	29 C9-C25	7.955	(2.643-13.266)		715963	72.9	
A	54 C10-C23	8.121	(3.859-12.383)		499654	50.9	
A	4 C10-C24	8.346	(3.859-12.833)		599269	61.0	
A	16 C10-C25	8.563	(3.859-13.266)		714563	72.8	
	45 Hexadecane	8.624	8.624	0.000	7051	NC	
A	14 C10-C26	8.772	(3.859-13.685)		841141	85.7	
A	67 C12-C22	8.834	(5.754-11.914)		406316	41.4	
A	12 Unknown Hydrocarbons	9.168	(3.859-14.478)		1211165	NC	
A	32 C10-C28	9.168	(3.859-14.478)		1211165	123.4	
A	5 Diesel	9.168	(3.859-14.478)		1211165	123.4	
A	30 C13-C22	9.233	(6.552-11.914)		403268	41.1	
	44 Heptadecane	9.268	9.251	0.017	12080	NC	
A	31 C12-C24	9.294	(5.754-12.833)		593699	60.5	
	49 n-Octadecane	9.872	9.828	0.044	18002	NC	
A	11 Bunker Range Organics (C9-	9.917	(2.643-17.190)		3076104	NC	
A	9 Crude Oil Range Organics (	9.750	(2.643-16.857)		3652838	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.917	(2.643-17.190)		3978598	356.5	
33 C19	10.385	10.382	0.003	19040	NC	
A 64 C13-C28	10.515	(6.552-14.478)		1202547	122.5	
A 17 C10-C36	10.358	(3.859-16.857)		3074704	313.2	
A 68 Crude Oil Range Organics (	10.669	(2.643-18.695)		5158027	NC	
A 13 C9-C40	10.669	(2.643-18.695)		5158027	631.7	
A 58 C16-C24	10.729	(8.624-12.833)		559814	57.0	
61 icosane	10.922	10.915	0.007	15515	NC	
A 6 C10-C40	11.277	(3.859-18.695)		5154697	631.5	
$ 34 p-Terphenyl		11.887			ND	U
35 n-Docosane		11.914			ND	
A 18 C12-C40	12.224	(5.754-18.695)		5140111	630.1	
36 Tricosane	12.391	12.383	0.008	35893	NC	
A 66 C13-C40	12.623	(6.552-18.695)		4894329	600.9	
37 n-Tetracosane	12.835	12.833	0.002	33961	NC	
A 2 C16-C36 ORO	12.907	(8.624-17.190)		3256725	456.5	
38 C25	13.271	13.266	0.005	40967	NC	
A 19 C16-C40	13.660	(8.624-18.695)		5046767	619.5	
46 n-Hexacosane	13.691	13.685	0.006	40113	NC	
A 20 C19-C36	13.786	(10.382-17.190)		2660545	341.2	
A 55 C23-C32	14.149	(12.383-15.914)		1769366	430.8	
39 n-Octacosane	14.408	14.478	-0.070	154253	NC	
65 C29	14.860	14.854	0.006	79169	NC	
A 7 Motor Oil	15.012	(12.833-17.190)		2806441	491.6	
A 40 C24-C36	15.012	(12.833-17.190)		2806441	491.6	
A 50 C25-C36	15.228	(13.266-17.190)		2692351	500.3	
A 10 C22-C40	15.304	(11.914-18.695)		4073958	514.3	
A 41 C23-C40	15.539	(12.383-18.695)		3986088	515.6	
A 8 C24-C40	15.764	(12.833-18.695)		3887334	521.2	
56 Dotriacontane		15.914			ND	
A 51 C28-C40	16.586	(14.478-18.695)		3280031	646.1	
A 63 C29-C40	16.775	(14.854-18.695)		3042374	673.3	
42 n-Hexatriacontane	17.216	17.190	0.026	2300085	NC	
43 C40		18.695			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

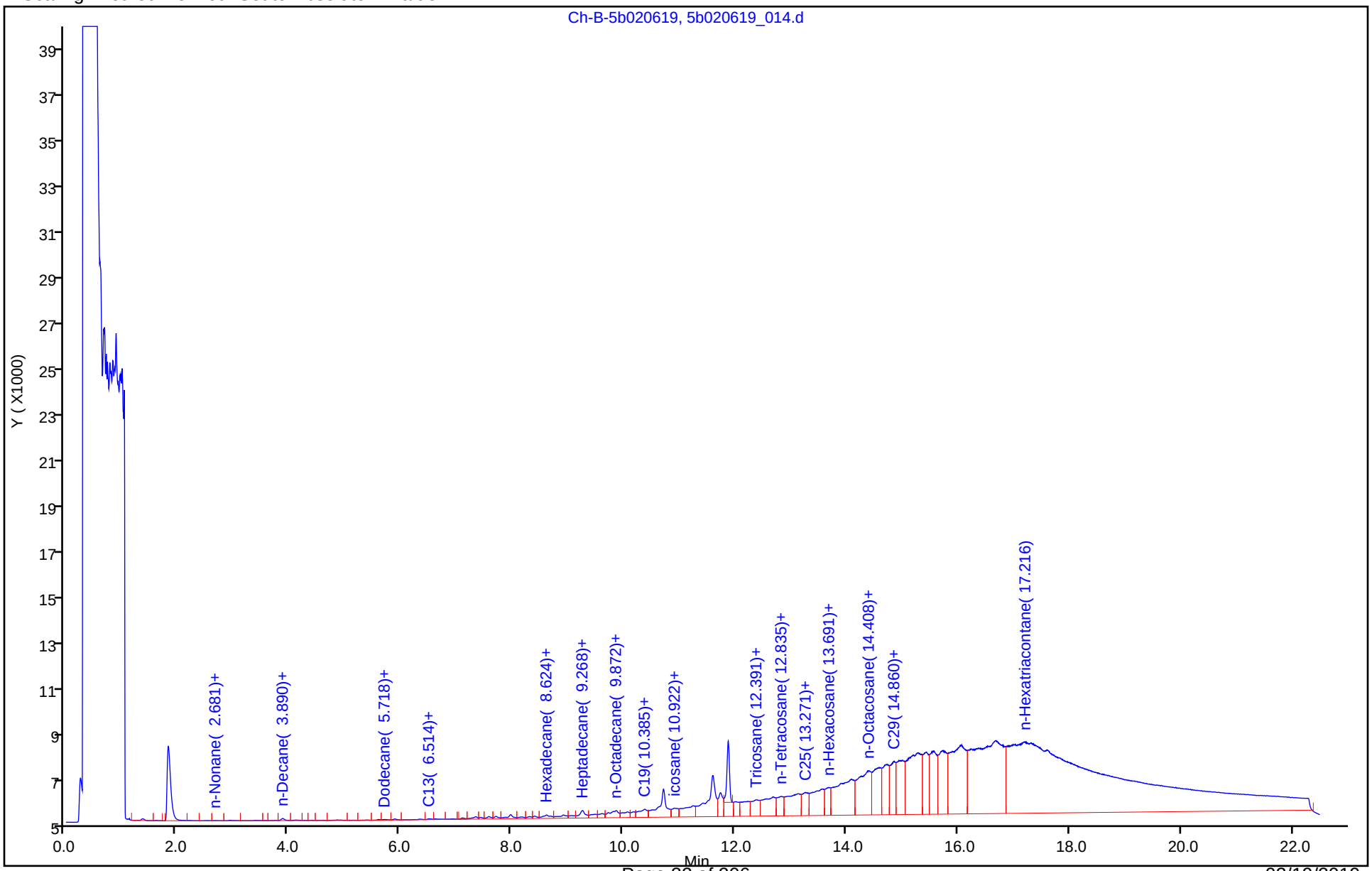
Report Date: 07-Feb-2019 12:25:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_014.d

Injection Date:	06-Feb-2019 15:56:49	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-5-G	Lab Sample ID:	720-91048-5	Worklist Smp#:	14
Client ID:	DG-Y19S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

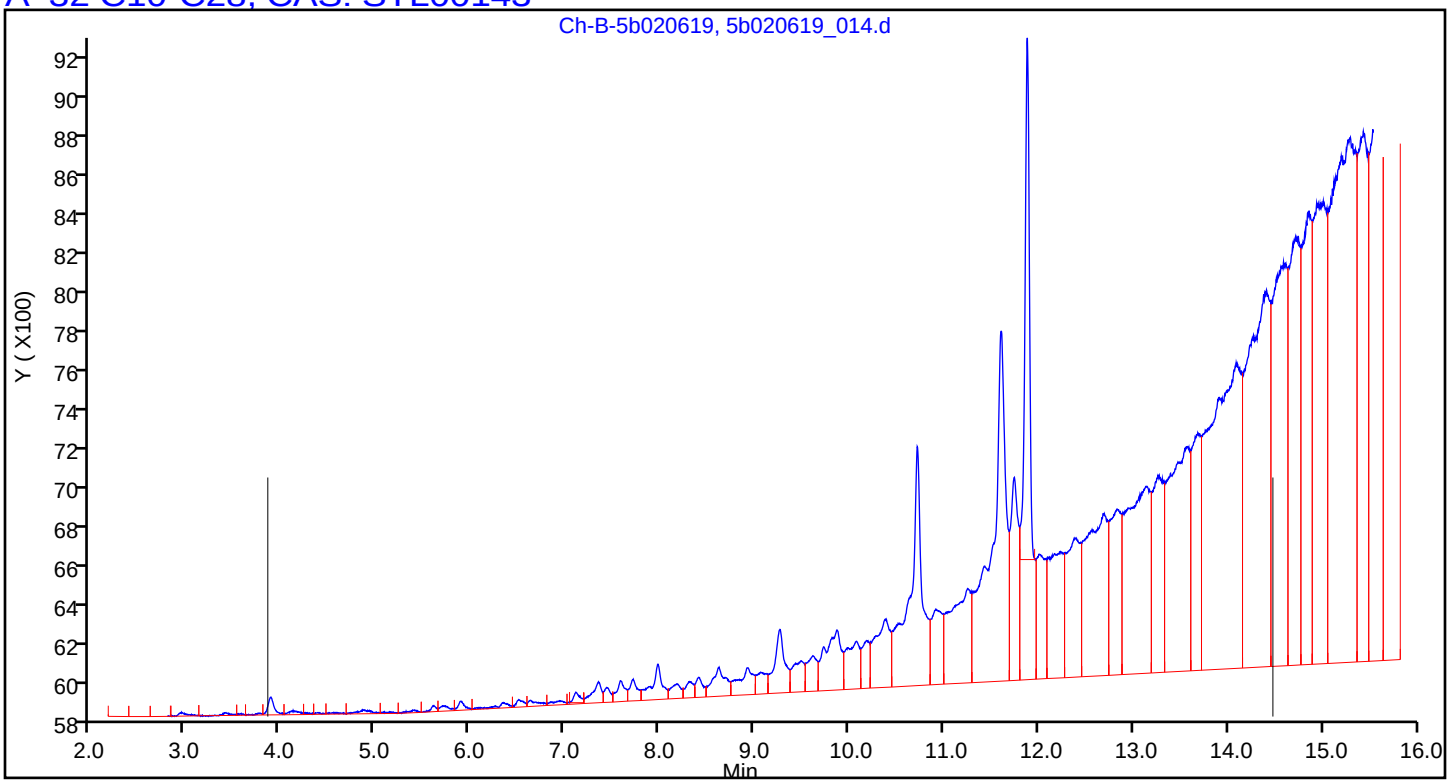


Report Date: 07-Feb-2019 12:25:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_014.d				
Injection Date:	06-Feb-2019 15:56:49	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-5-G	Lab Sample ID:	720-91048-5		
Client ID:	DG-Y19S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

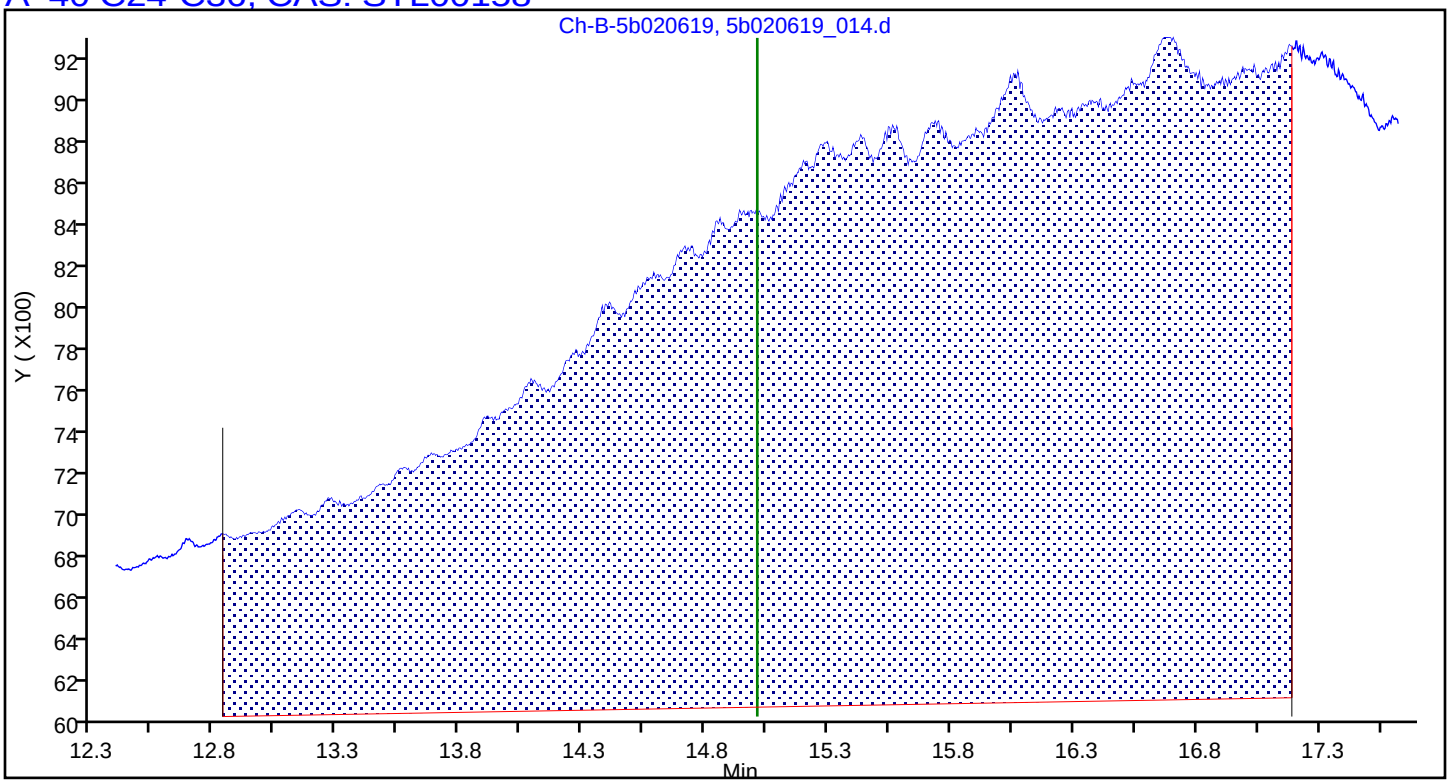


Report Date: 07-Feb-2019 12:25:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_014.d				
Injection Date:	06-Feb-2019 15:56:49	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-5-G	Lab Sample ID:	720-91048-5		
Client ID:	DG-Y19S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



User Disabled Compound Report

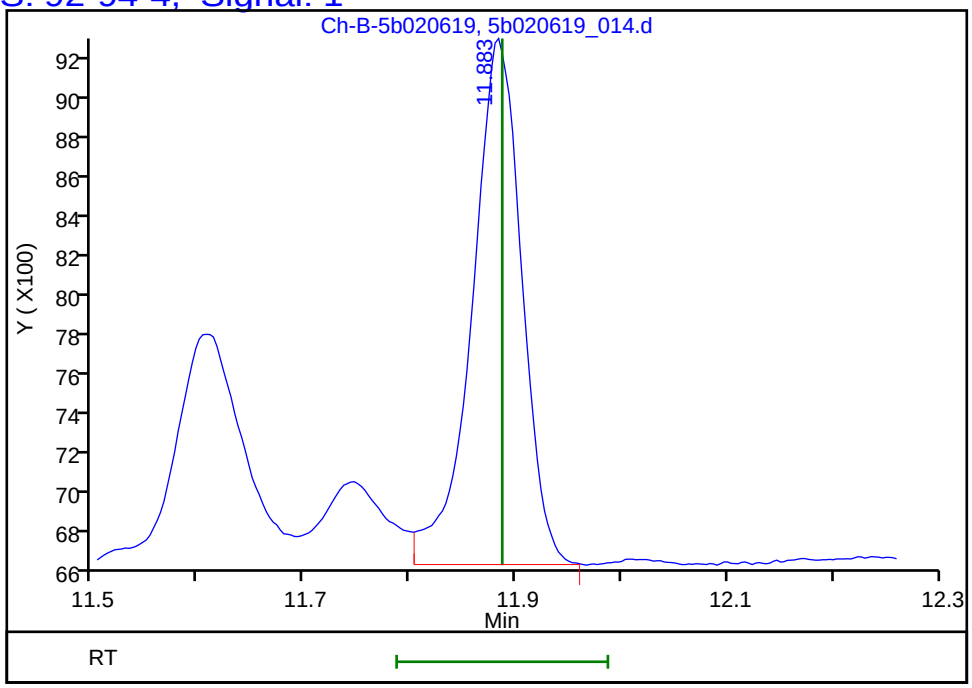
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_014.d

Injection Date:	06-Feb-2019 15:56:49	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-5-G	Lab Sample ID:	720-91048-5		
Client ID:	DG-Y19S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.88
Response: 43020
Amount: 3.745580



Reviewer: luj, 07-Feb-2019 12:25:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_042.d
Lims ID: 720-91048-E-6-E
Client ID: DG-Y19S-7.5-8
Sample Type: Client
Inject. Date: 08-Feb-2019 03:58:44 ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 117 Name: 720-0056484-042
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\DRO5B.m
Limit Group: DRO
Last Update: 08-Feb-2019 11:59:11 Calib Date: 07-Feb-2019 08:44:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0330

First Level Reviewer: luj Date: 08-Feb-2019 11:59:11

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.637			ND	
	23 n-Decane	3.891	3.855	0.036	1072	NC	
A	21 Stoddard Solvent	4.593	(2.637-6.549)		23462	2.06	
A	1 C9-C13	4.593	(2.637-6.549)		23462	1.85	
A	57 C10-C12	4.803	(3.855-5.750)		15478	1.58	
	24 Dodecane	5.700	5.750	-0.050	1494	NC	
A	3 C9 - C17	5.945	(2.637-9.254)		97907	7.13	
A	47 C9 - C18	6.233	(2.637-9.829)		133940	11.9	
A	60 C10-C16	6.239	(3.855-8.623)		70860	5.84	
A	25 C9-C19	6.509	(2.637-10.381)		178623	13.0	
A	15 Kerosene	6.509	(2.637-10.381)		178623	15.9	
	26 C13	6.506	6.549	-0.043	1436	NC	
$	27 n-Decanoic Acid (Surr)		7.180			ND	U
A	59 C12-C16	7.187	(5.750-8.623)		56876	5.79	
A	62 C10-C20	7.384	(3.855-10.914)		211111	21.5	
A	28 C9-C24	7.734	(2.637-12.831)		312515	31.8	
A	29 C9-C25	7.951	(2.637-13.265)		326149	33.2	
A	54 C10-C23	8.118	(3.855-12.380)		282189	28.7	
A	4 C10-C24	8.343	(3.855-12.831)		309814	31.6	
A	16 C10-C25	8.560	(3.855-13.265)		323448	32.9	
	45 Hexadecane	8.626	8.623	0.003	8959	NC	
A	14 C10-C26	8.769	(3.855-13.683)		345734	35.2	
A	67 C12-C22	8.831	(5.750-11.912)		242836	24.7	
A	12 Unknown Hydrocarbons	9.165	(3.855-14.476)		412903	NC	
A	32 C10-C28	9.165	(3.855-14.476)		412903	42.1	
A	5 Diesel	9.165	(3.855-14.476)		412903	42.1	
A	30 C13-C22	9.230	(6.549-11.912)		237495	24.2	
	44 Heptadecane	9.271	9.254	0.017	16245	NC	
A	31 C12-C24	9.291	(5.750-12.831)		295830	30.1	
	49 n-Octadecane	9.874	9.829	0.045	11317	NC	
A	11 Bunker Range Organics (C9-	9.912	(2.637-17.187)		607828	NC	
A	9 Crude Oil Range Organics (	9.538	(2.653-16.423)		983694	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.912	(2.637-17.187)		1120008	100.3	
33 C19	10.289	10.381	-0.092	15214	NC	
A 64 C13-C28	10.513	(6.549-14.476)		393578	40.1	
A 17 C10-C36	10.139	(3.855-16.423)		605127	61.6	
A 68 Crude Oil Range Organics (	10.663	(2.637-18.690)		1400530	NC	
A 13 C9-C40	10.663	(2.637-18.690)		1400530	139.3	
A 58 C16-C24	10.727	(8.623-12.831)		238954	24.3	
61 icosane	10.896	10.914	-0.018	7679	NC	
A 6 C10-C40	11.272	(3.855-18.690)		1396552	139.1	
$ 34 p-Terphenyl	11.883	11.886	-0.003	309703	27.0	
35 n-Docosane		11.912			ND	
A 18 C12-C40	12.220	(5.750-18.690)		1371398	136.3	
36 Tricosane	12.381	12.380	0.001	8048	NC	
A 66 C13-C40	12.620	(6.549-18.690)		1113369	104.5	
37 n-Tetracosane	12.828	12.831	-0.003	7961	NC	
A 2 C16-C36 ORO	12.905	(8.623-17.187)		627701	88.0	
38 C25	13.267	13.265	0.002	8370	NC	
A 19 C16-C40	13.656	(8.623-18.690)		1266738	123.5	
46 n-Hexacosane	13.701	13.683	0.018	12173	NC	
A 20 C19-C36	13.784	(10.381-17.187)		423718	54.3	
A 55 C23-C32	14.147	(12.380-15.913)		242673	59.1	
39 n-Octacosane	14.405	14.476	-0.071	15605	NC	
65 C29	14.850	14.853	-0.003	32089	NC	
A 7 Motor Oil	15.009	(12.831-17.187)		375050	65.7	
A 40 C24-C36	15.009	(12.831-17.187)		375050	65.7	
A 50 C25-C36	15.226	(13.265-17.187)		359496	66.8	
A 10 C22-C40	15.301	(11.912-18.690)		319514	40.3	
A 41 C23-C40	15.535	(12.380-18.690)		586354	75.8	
A 8 C24-C40	15.761	(12.831-18.690)		571686	76.6	
56 Dotriacontane	15.904	15.913	-0.009	15593	NC	
A 51 C28-C40	16.583	(14.476-18.690)		481769	63.3	
A 63 C29-C40	16.771	(14.853-18.690)		447587	63.3	
42 n-Hexatriacontane		17.187			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

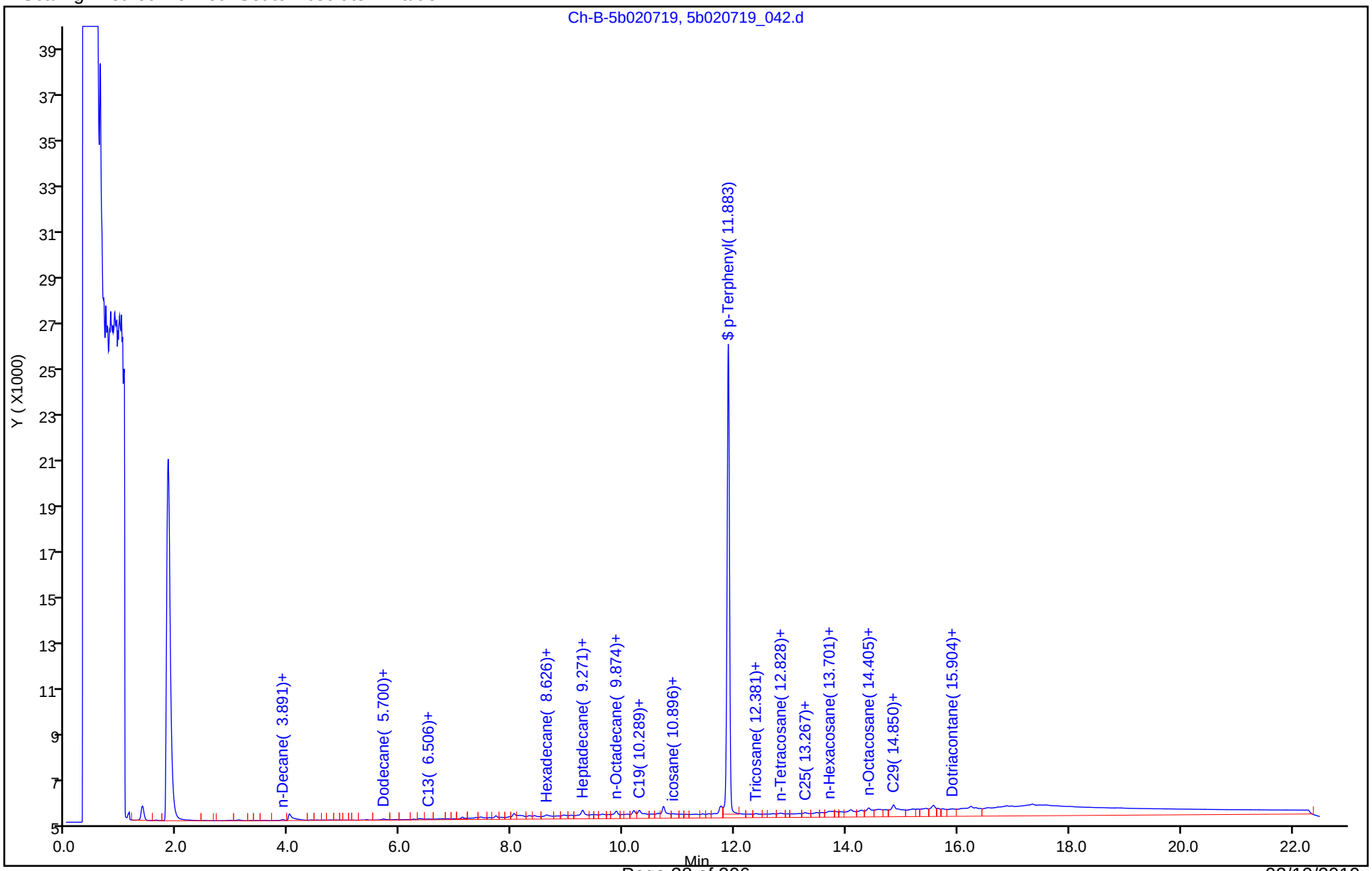
Report Date: 08-Feb-2019 11:59:12 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_042.d

Injection Date:	08-Feb-2019 03:58:44	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-6-E	Lab Sample ID:	720-91048-6	Worklist Smp#:	42
Client ID:	DG-Y19S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_042.d				
Lims ID:	720-91048-E-6-E				
Client ID:	DG-Y19S-7.5-8				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 03:58:44	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 117 Name: 720-0056484-042				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	08-Feb-2019 11:59:11	Calib Date:	07-Feb-2019 08:44:33		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0330				

First Level Reviewer: luj Date: 08-Feb-2019 11:59:11

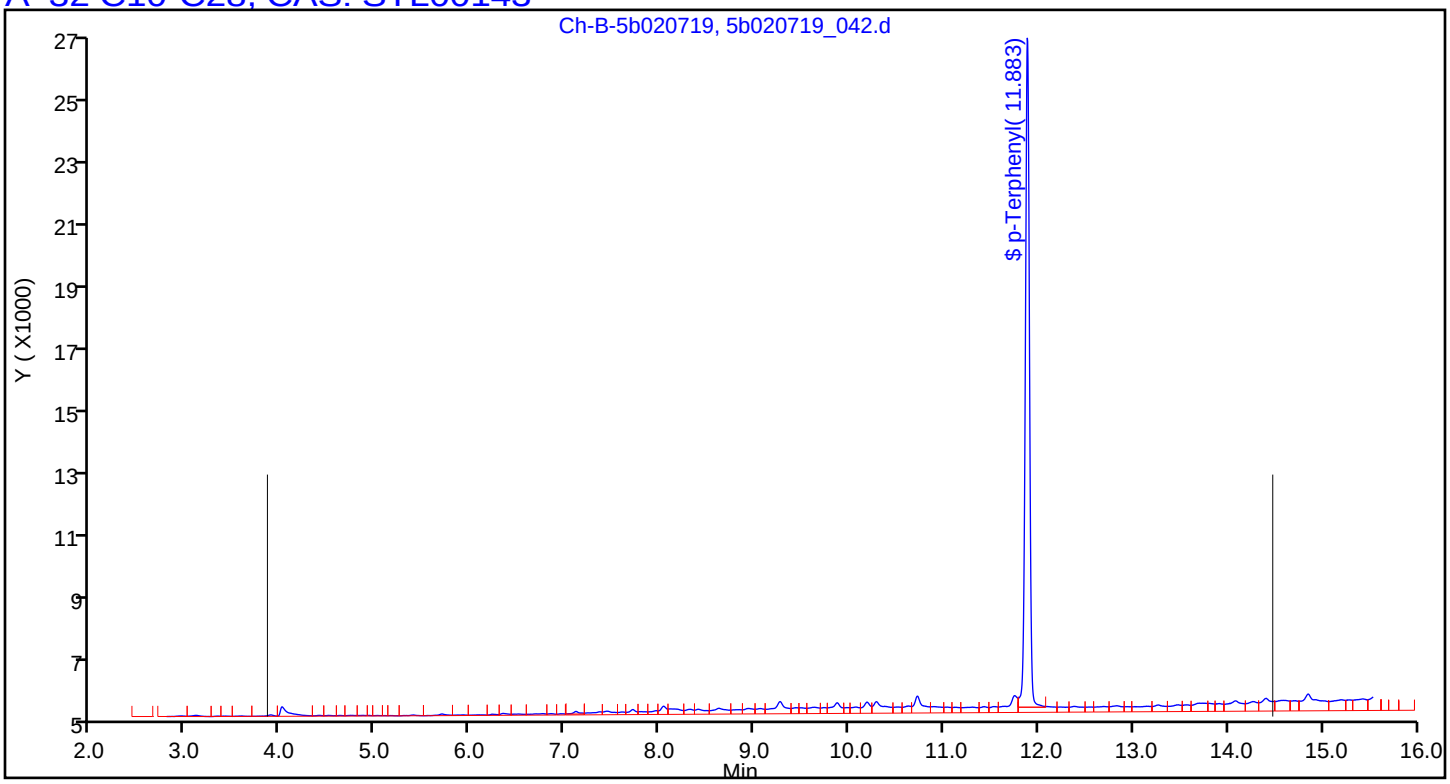
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.0	107.86

Report Date: 08-Feb-2019 11:59:12 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_042.d				
Injection Date:	08-Feb-2019 03:58:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-6-E	Lab Sample ID:	720-91048-6		
Client ID:	DG-Y19S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

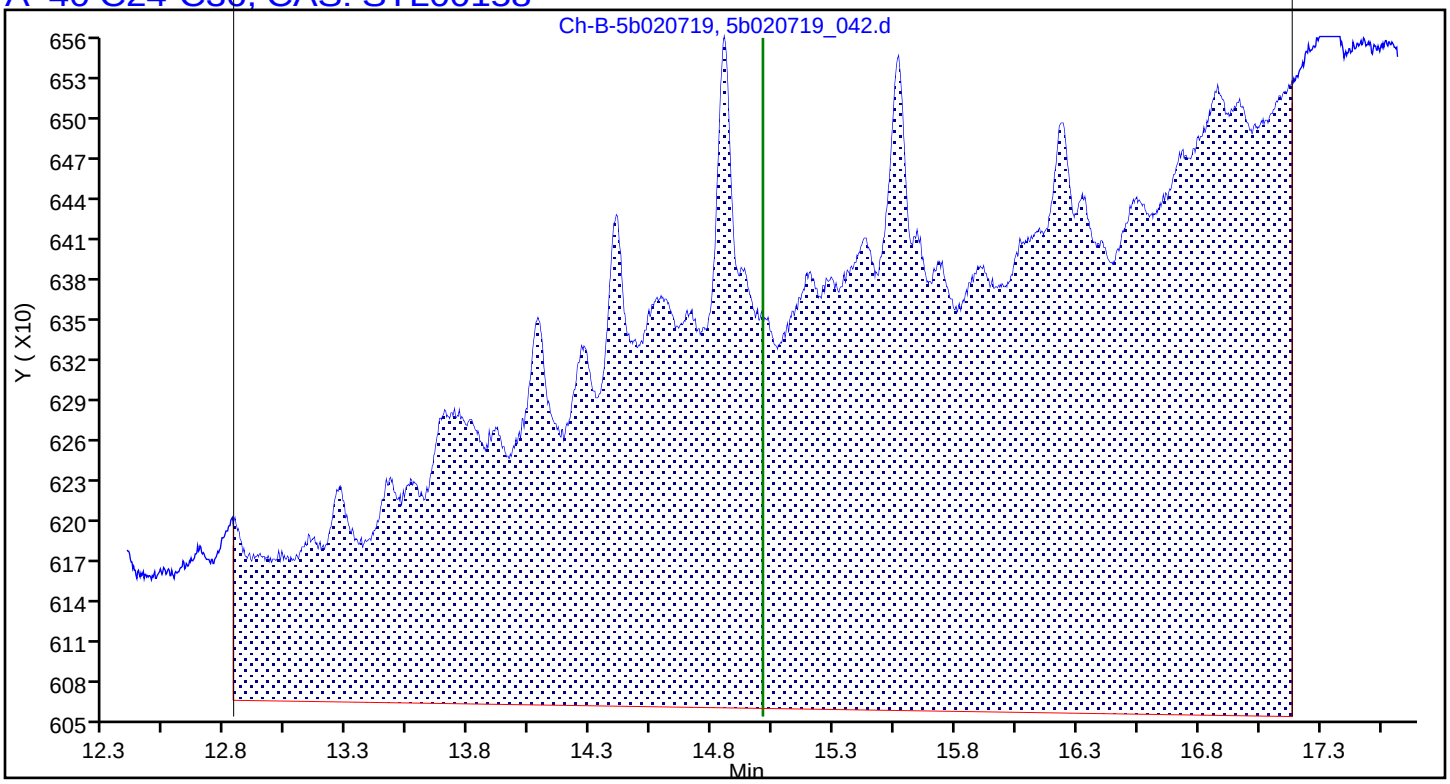


Report Date: 08-Feb-2019 11:59:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_042.d				
Injection Date:	08-Feb-2019 03:58:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-6-E	Lab Sample ID:	720-91048-6		
Client ID:	DG-Y19S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_007.d
Lims ID: 720-91048-E-7-E
Client ID: DG-V17S-0.5-1
Sample Type: Client
Inject. Date: 08-Feb-2019 11:00:38 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 037 Name: 720-0056502-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:28:30 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 10:28:44

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.506			ND	
	23 n-Decane	3.785	3.751	0.034	2761	NC	
A	1 C9-C13	4.490	(2.506-6.473)		5082119	NC	
A	21 Stoddard Solvent	4.490	(2.506-6.473)		5082119	NC	
A	57 C10-C12	4.711	(3.751-5.670)		39866	4.07	
	24 Dodecane	5.657	5.670	-0.013	31095	NC	
A	3 C9 - C17	5.852	(2.506-9.198)		5108972	421.5	
A	47 C9 - C18	6.149	(2.506-9.791)		5123119	475.9	
A	60 C10-C16	6.156	(3.751-8.562)		61105	5.54	
A	15 Kerosene	6.417	(2.506-10.328)		5159872	478.5	
A	25 C9-C19	6.417	(2.506-10.328)		5159872	422.7	
	26 C13	6.477	6.473	0.004	1531	NC	
A	59 C12-C16	7.116	(5.670-8.562)		52334	5.34	
$	27 n-Decanoic Acid (Surr)		7.139			ND	
A	62 C10-C20	7.307	(3.751-10.864)		117619	12.0	
A	28 C9-C24	7.648	(2.506-12.791)		5724439	584.1	M
A	29 C9-C25	7.866	(2.506-13.226)		5724439	584.1	M
A	54 C10-C23	8.044	(3.751-12.338)		682186	69.6	M
A	4 C10-C24	8.271	(3.751-12.791)		682186	69.6	M
A	16 C10-C25	8.489	(3.751-13.226)		682186	69.6	M
	45 Hexadecane	8.555	8.562	-0.007	5626	NC	
A	14 C10-C26	8.699	(3.751-13.646)		682186	69.6	M
A	67 C12-C22	8.768	(5.670-11.867)		108848	11.1	
A	12 Unknown Hydrocarbons	9.097	(3.751-14.443)		2593496	NC	M
A	32 C10-C28	9.097	(3.751-14.443)		2593496	264.6	M
A	5 Diesel	9.097	(3.751-14.443)		2593496	264.6	M
A	30 C13-C22	9.170	(6.473-11.867)		77753	7.93	
	44 Heptadecane	9.211	9.198	0.013	14147	NC	
A	31 C12-C24	9.230	(5.670-12.791)		673415	68.7	M
	49 n-Octadecane	9.801	9.791	0.010	36753	NC	
A	9 Crude Oil Range Organics (	9.836	(2.506-17.167)		6185376	NC	
A	52 Mineral oil	9.836	(2.506-17.167)		6185376	538.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		11179865	NC	M
33 C19		10.328			ND	
A 64 C13-C28	10.458	(6.473-14.443)		2553630	260.5	M
A 17 C10-C36	10.459	(3.751-17.167)		6137612	626.2	M
A 13 C9-C40	10.588	(2.506-18.671)		7354983	893.9	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		7354983	NC	
A 58 C16-C24	10.676	(8.562-12.791)		626707	63.9	M
61 icosane		10.864			ND	
A 6 C10-C40	11.211	(3.751-18.671)		7342594	892.7	
$ 34 p-Terphenyl	11.860	11.859	0.001	135366	11.4	
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		7319508	890.2	
36 Tricosane		12.338			ND	
A 66 C13-C40	12.572	(6.473-18.671)		7300440	887.9	
37 n-Tetracosane		12.791			ND	
A 2 C16-C36 ORO	12.864	(8.562-17.167)		6107630	804.7	
38 C25		13.226			ND	
A 19 C16-C40	13.616	(8.562-18.671)		7277237	885.7	
46 n-Hexacosane		13.646			ND	
A 20 C19-C36	13.747	(10.328-17.167)		5741093	665.4	
A 55 C23-C32	14.112	(12.338-15.887)		3795340	798.1	
39 n-Octacosane		14.443			ND	
65 C29	14.413	14.821	-0.408	1911310	NC	M
A 7 Motor Oil	14.979	(12.791-17.167)		4849860	796.1	
A 40 C24-C36	14.979	(12.791-17.167)		4849860	796.1	
A 50 C25-C36	15.196	(13.226-17.167)		4542976	785.2	
A 10 C22-C40	15.269	(11.867-18.671)		6393225	764.7	
A 41 C23-C40	15.504	(12.338-18.671)		6235651	760.3	
A 8 C24-C40	15.731	(12.791-18.671)		5963543	749.6	
56 Dotriacontane		15.887			ND	
A 51 C28-C40	16.557	(14.443-18.671)		4510434	743.8	
A 63 C29-C40	16.746	(14.821-18.671)		4023108	732.5	
42 n-Hexatriacontane		17.167			ND	
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

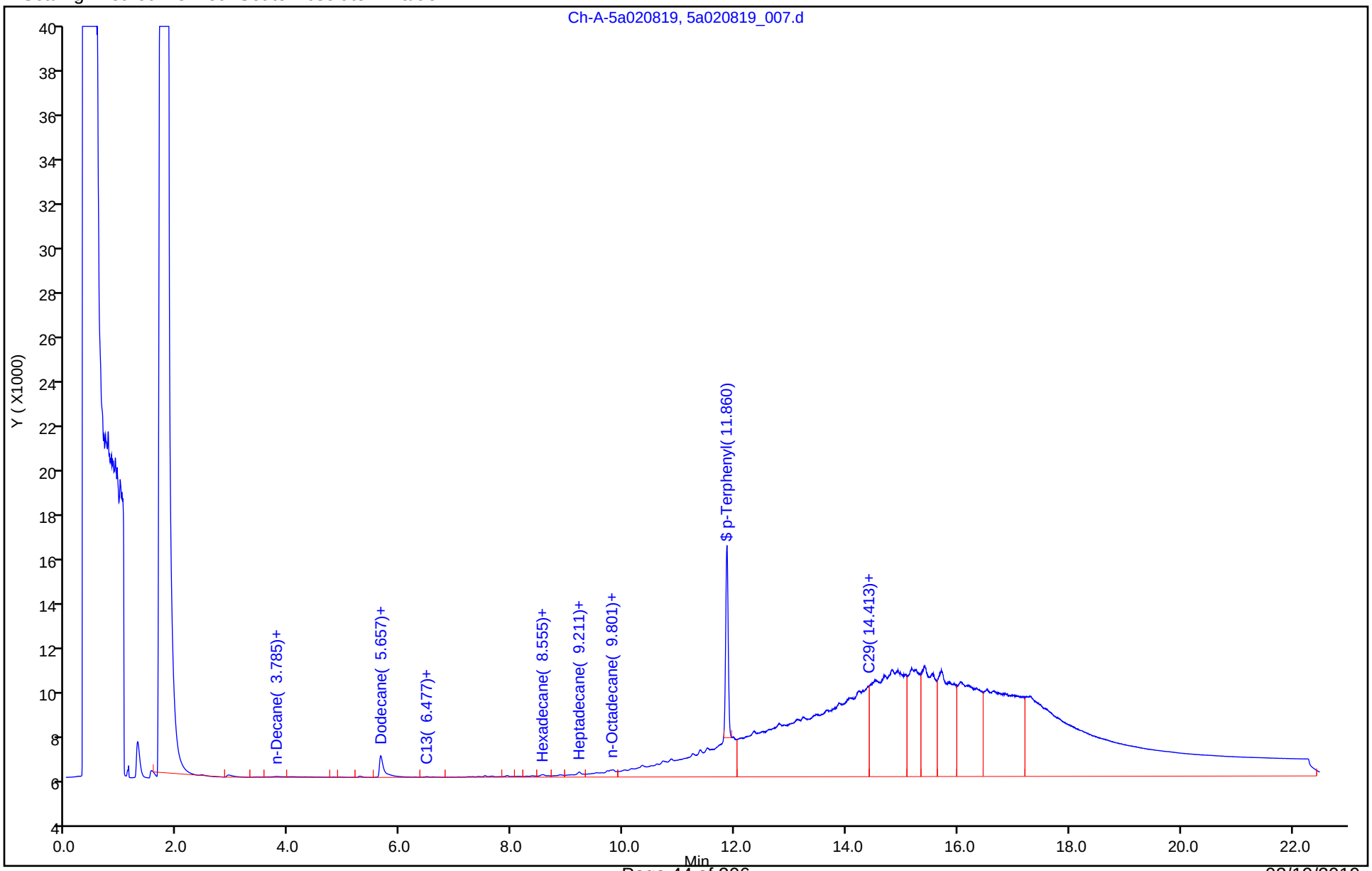
Report Date: 11-Feb-2019 10:28:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_007.d

Injection Date:	08-Feb-2019 11:00:38	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-7-E	Lab Sample ID:	720-91048-7	Worklist Smp#:	7
Client ID:	DG-V17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_007.d				
Lims ID:	720-91048-E-7-E				
Client ID:	DG-V17S-0.5-1				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 11:00:38	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 037 Name: 720-0056502-007				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Feb-2019 10:28:30	Calib Date:	08-Feb-2019 08:45:30		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0312				
First Level Reviewer: hayashid		Date:	11-Feb-2019 10:28:44		

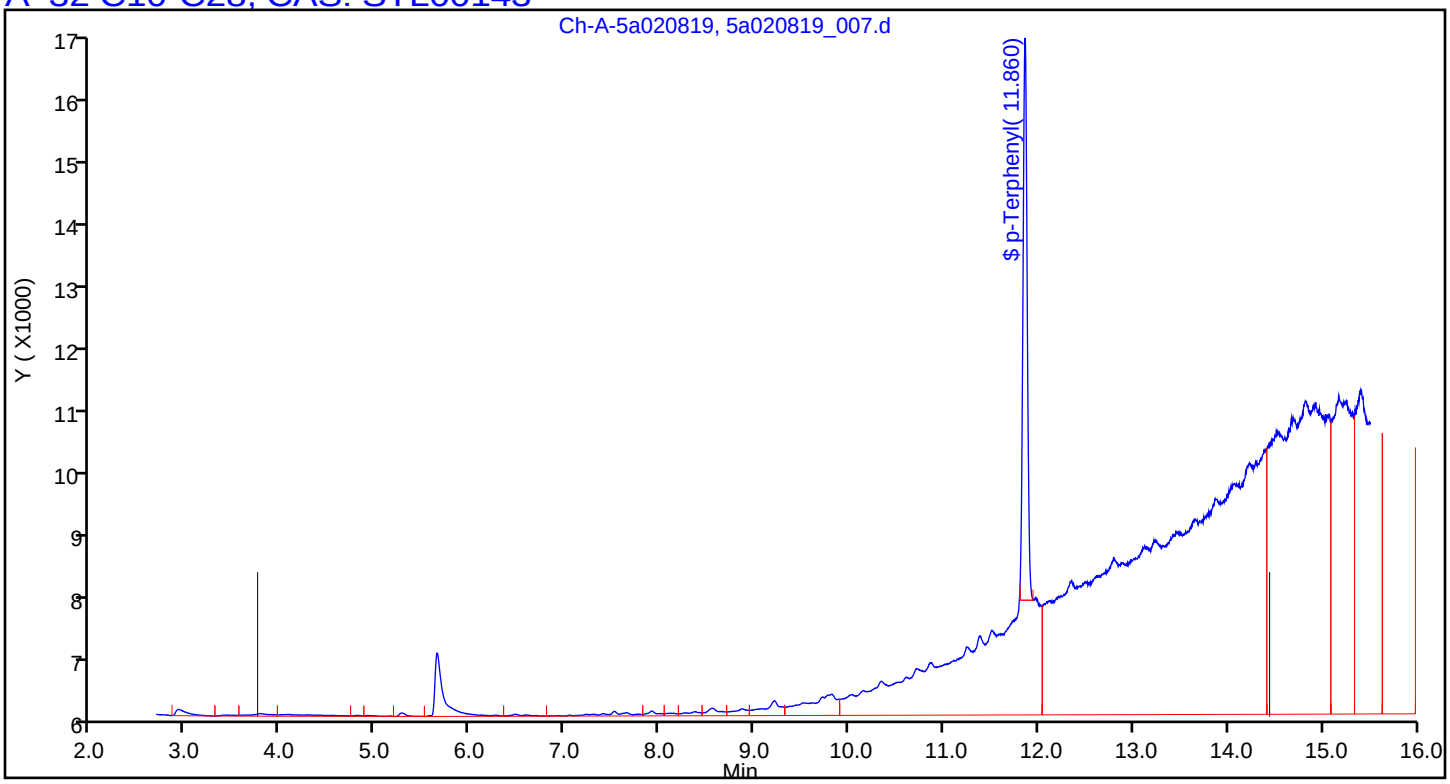
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	11.4	90.81

Report Date: 11-Feb-2019 10:28:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_007.d				
Injection Date:	08-Feb-2019 11:00:38	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-7-E	Lab Sample ID:	720-91048-7		
Client ID:	DG-V17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

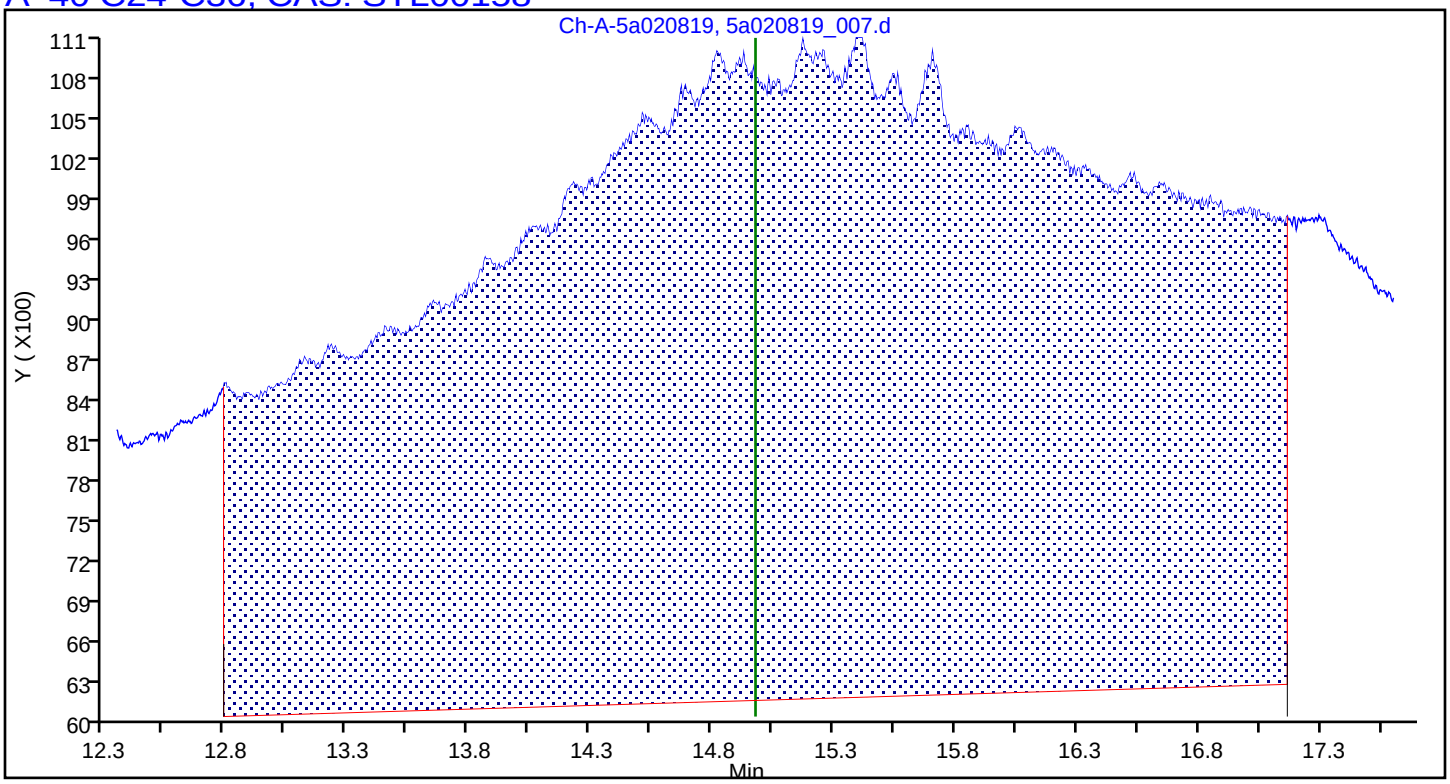


Report Date: 11-Feb-2019 10:28:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_007.d				
Injection Date:	08-Feb-2019 11:00:38	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-7-E	Lab Sample ID:	720-91048-7		
Client ID:	DG-V17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

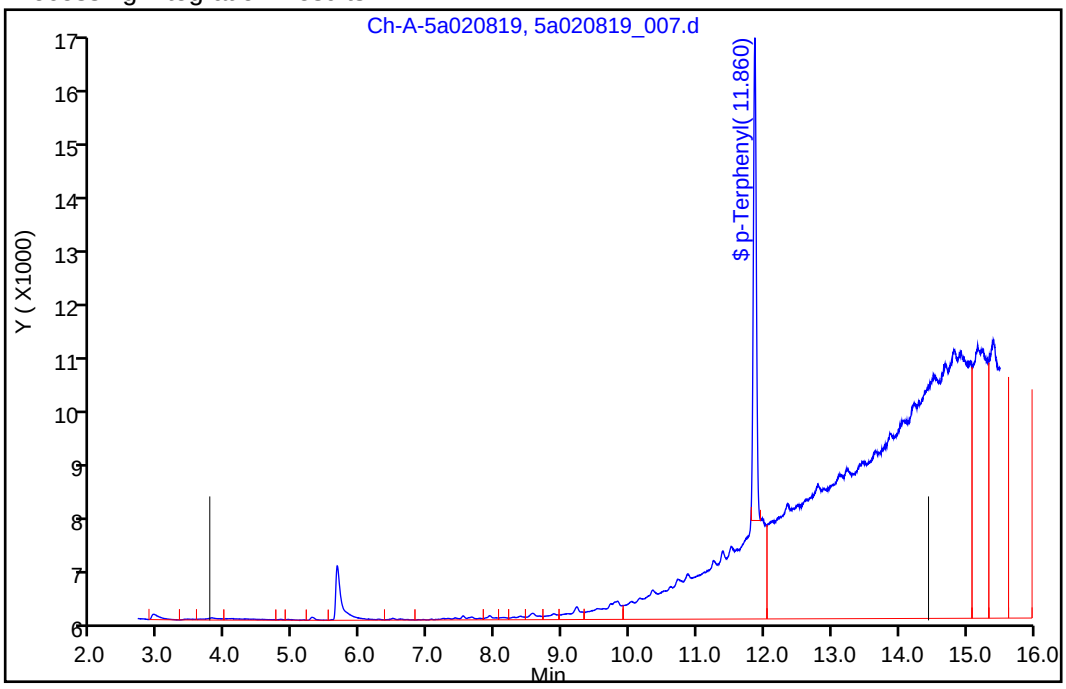
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_007.d				
Injection Date:	08-Feb-2019 11:00:38	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-7-E	Lab Sample ID:	720-91048-7		
Client ID:	DG-V17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

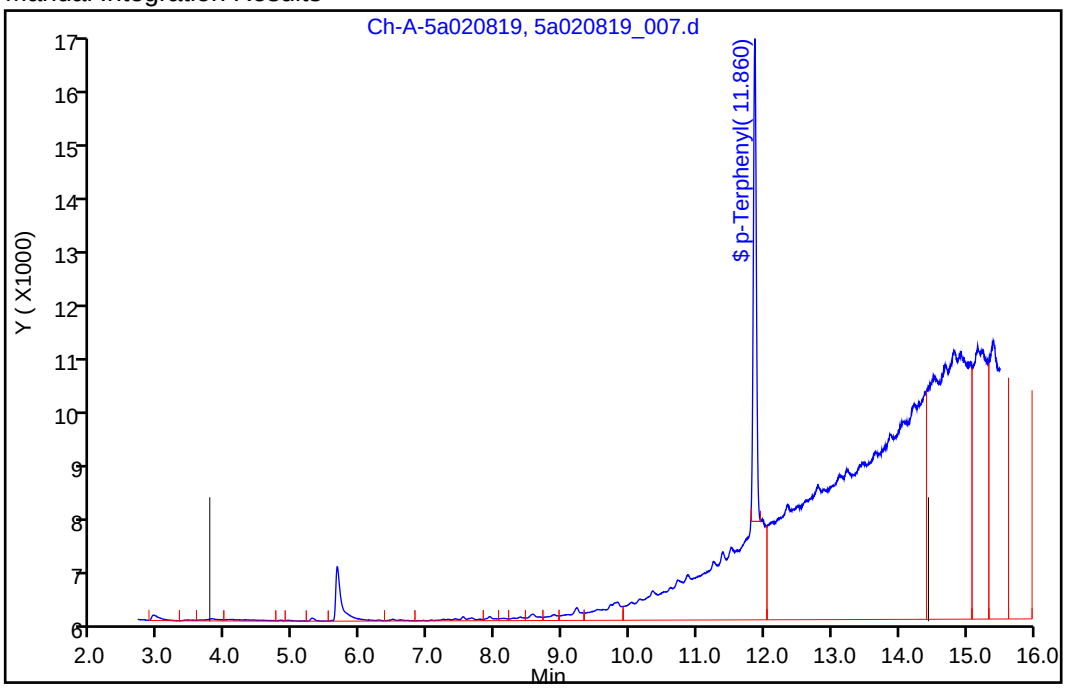
Processing Integration Results

RT: 9.10
Response: 682186
Amount: 69.603620



Manual Integration Results

RT: 9.10
Response: 2593496
Amount: 264.6151



Reviewer: luj, 08-Feb-2019 12:41:15

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_043.d
Lims ID: 720-91048-E-8-E
Client ID: DG-V17S-3.5-4
Sample Type: Client
Inject. Date: 08-Feb-2019 04:27:49 ALS Bottle#: 0 Worklist Smp#: 43
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 118 Name: 720-0056484-043
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\DRO5B.m
Limit Group: DRO
Last Update: 08-Feb-2019 11:59:25 Calib Date: 07-Feb-2019 08:44:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0330

First Level Reviewer: luj Date: 08-Feb-2019 11:59:25

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.698	2.637	0.061	130	NC	
	23 n-Decane	3.891	3.855	0.036	995	NC	
A	21 Stoddard Solvent	4.593	(2.637-6.549)		10006	0.8802	
A	1 C9-C13	4.593	(2.637-6.549)		10006	0.7900	
A	57 C10-C12	4.803	(3.855-5.750)		6243	0.6359	
	24 Dodecane	5.708	5.750	-0.042	826	NC	
A	3 C9 - C17	5.945	(2.637-9.254)		16338	1.19	
A	47 C9 - C18	6.233	(2.637-9.829)		19127	1.70	
A	60 C10-C16	6.239	(3.855-8.623)		12751	1.05	
A	25 C9-C19	6.509	(2.637-10.381)		25865	1.88	
A	15 Kerosene	6.509	(2.637-10.381)		25865	2.30	
	26 C13		6.549			ND	
$	27 n-Decanoic Acid (Surr)		7.180			ND	U
A	59 C12-C16	7.187	(5.750-8.623)		7334	0.7470	
A	62 C10-C20	7.384	(3.855-10.914)		42475	4.33	
A	28 C9-C24	7.734	(2.637-12.831)		111951	11.4	
A	29 C9-C25	7.951	(2.637-13.265)		134866	13.7	
A	54 C10-C23	8.118	(3.855-12.380)		87462	8.91	
A	4 C10-C24	8.343	(3.855-12.831)		109108	11.1	
A	16 C10-C25	8.560	(3.855-13.265)		132023	13.4	
	45 Hexadecane	8.619	8.623	-0.004	836	NC	
A	14 C10-C26	8.769	(3.855-13.683)		142970	14.6	
A	67 C12-C22	8.831	(5.750-11.912)		67166	6.84	
A	12 Unknown Hydrocarbons	9.165	(3.855-14.476)		232656	NC	
A	32 C10-C28	9.165	(3.855-14.476)		232656	23.7	
A	5 Diesel	9.165	(3.855-14.476)		232656	23.7	
A	30 C13-C22	9.230	(6.549-11.912)		66183	6.74	
	44 Heptadecane	9.266	9.254	0.012	1443	NC	
A	31 C12-C24	9.291	(5.750-12.831)		103691	10.6	
	49 n-Octadecane	9.870	9.829	0.041	1995	NC	
A	11 Bunker Range Organics (C9-	9.912	(2.637-17.187)		702655	NC	
A	9 Crude Oil Range Organics (	9.840	(2.637-17.043)		1039535	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.912	(2.637-17.187)		1076570	96.5	
33 C19	10.386	10.381	0.005	895	NC	
A 64 C13-C28	10.513	(6.549-14.476)		226256	23.0	
A 17 C10-C36	10.449	(3.855-17.043)		699812	71.3	
A 68 Crude Oil Range Organics (	10.663	(2.637-18.690)		1422979	NC	
A 13 C9-C40	10.663	(2.637-18.690)		1422979	142.2	
A 58 C16-C24	10.727	(8.623-12.831)		97193	9.90	
61 icosane	10.939	10.914	0.025	2799	NC	
A 6 C10-C40	11.272	(3.855-18.690)		1418788	142.0	
$ 34 p-Terphenyl	11.883	11.886	-0.003	306987	26.7	
35 n-Docosane		11.912			ND	
A 18 C12-C40	12.220	(5.750-18.690)		1407331	141.0	
36 Tricosane	12.385	12.380	0.005	4815	NC	
A 66 C13-C40	12.620	(6.549-18.690)		1329337	132.9	
37 n-Tetracosane	12.809	12.831	-0.022	7742	NC	
A 2 C16-C36 ORO	12.905	(8.623-17.187)		887179	124.4	
38 C25	13.265	13.265	0.000	8858	NC	
A 19 C16-C40	13.656	(8.623-18.690)		1377508	138.0	
46 n-Hexacosane		13.683			ND	
A 20 C19-C36	13.784	(10.381-17.187)		546471	70.1	
A 55 C23-C32	14.147	(12.380-15.913)		427643	104.1	
39 n-Octacosane	14.411	14.476	-0.065	18159	NC	
65 C29	14.849	14.853	-0.004	54263	NC	
A 7 Motor Oil	15.009	(12.831-17.187)		680521	119.2	
A 40 C24-C36	15.009	(12.831-17.187)		680521	119.2	
A 50 C25-C36	15.226	(13.265-17.187)		658059	122.3	
A 10 C22-C40	15.301	(11.912-18.690)		720703	91.0	
A 41 C23-C40	15.535	(12.380-18.690)		991371	128.2	
A 8 C24-C40	15.761	(12.831-18.690)		974614	130.7	
56 Dotriacontane	15.904	15.913	-0.009	31048	NC	
A 51 C28-C40	16.583	(14.476-18.690)		834930	136.9	
A 63 C29-C40	16.771	(14.853-18.690)		773838	140.0	
42 n-Hexatriacontane	17.280	17.187	0.093	574151	NC	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

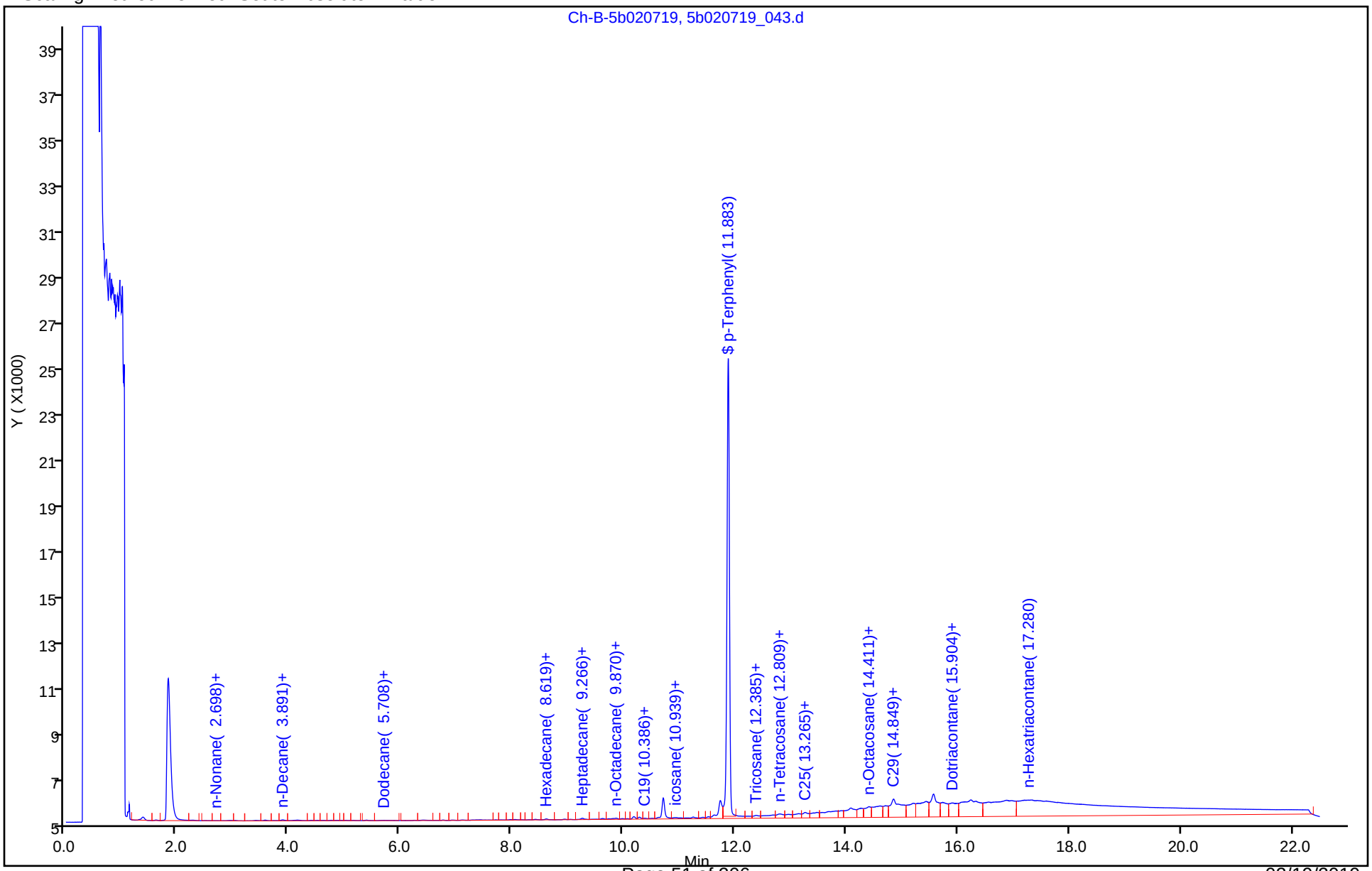
Report Date: 08-Feb-2019 11:59:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_043.d

Injection Date:	08-Feb-2019 04:27:49	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-8-E	Lab Sample ID:	720-91048-8	Worklist Smp#:	43
Client ID:	DG-V17S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_043.d				
Lims ID:	720-91048-E-8-E				
Client ID:	DG-V17S-3.5-4				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 04:27:49	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 118 Name: 720-0056484-043				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	08-Feb-2019 11:59:25	Calib Date:	07-Feb-2019 08:44:33		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0330				

First Level Reviewer: luj Date: 08-Feb-2019 11:59:25

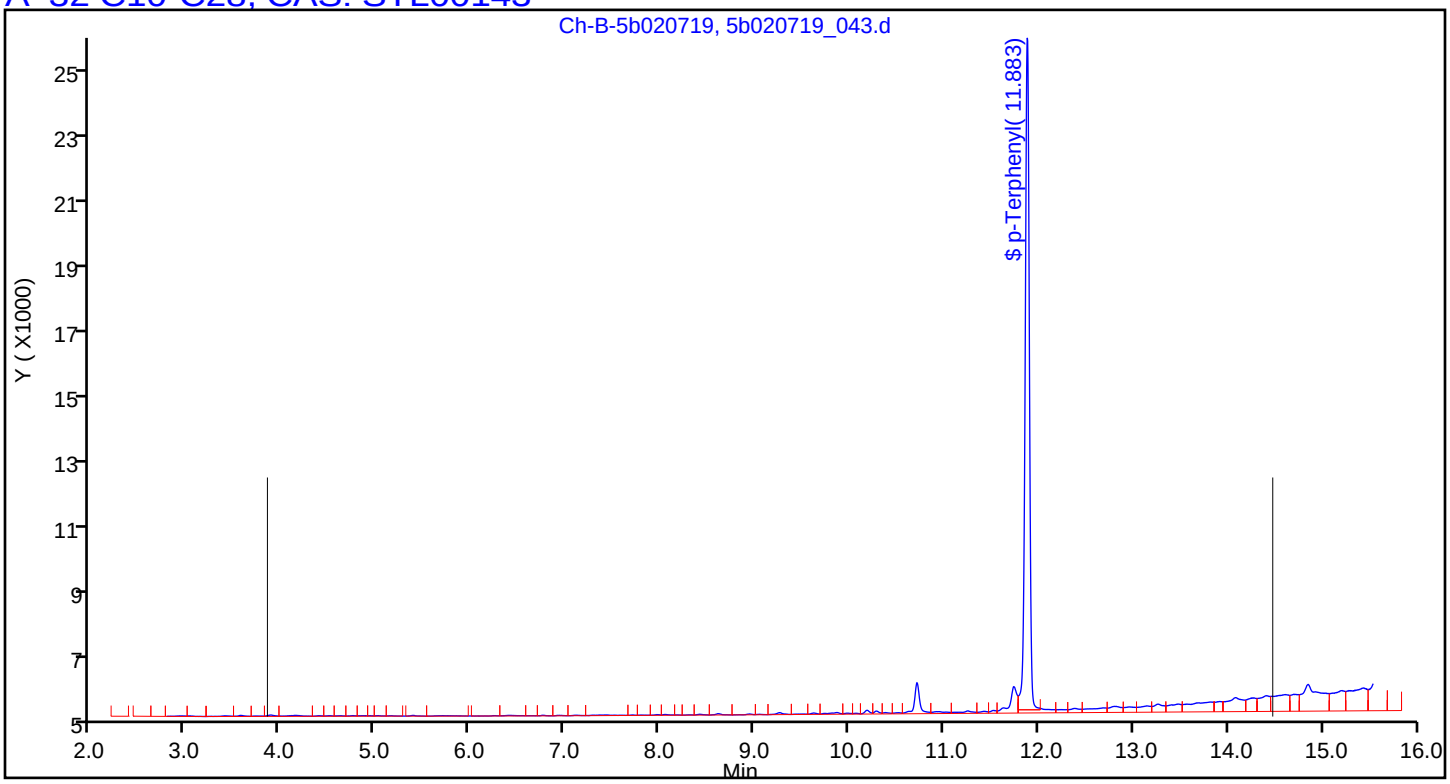
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.7	106.91

Report Date: 08-Feb-2019 11:59:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_043.d				
Injection Date:	08-Feb-2019 04:27:49	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-8-E	Lab Sample ID:	720-91048-8		
Client ID:	DG-V17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

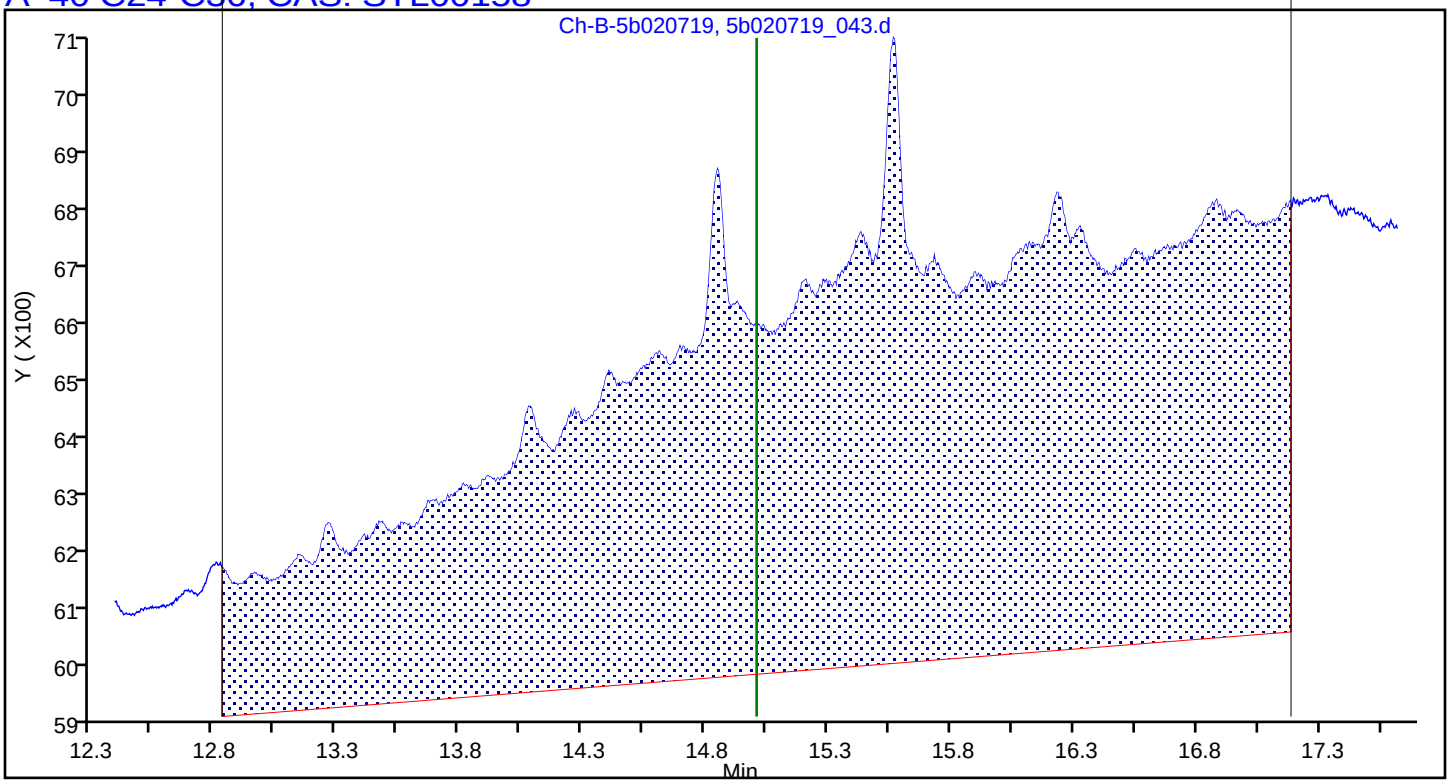


Report Date: 08-Feb-2019 11:59:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_043.d				
Injection Date:	08-Feb-2019 04:27:49	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-8-E	Lab Sample ID:	720-91048-8		
Client ID:	DG-V17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_009.d
Lims ID: 720-91048-E-9-E
Client ID: DG-V17S-9.5-10
Sample Type: Client
Inject. Date: 08-Feb-2019 11:59:06 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056502-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:28:30 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 10:30:42

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.506			ND	
	23 n-Decane		3.751			ND	
A	1 C9-C13	4.490	(2.506-6.473)		612158	NC	
A	21 Stoddard Solvent	4.490	(2.506-6.473)		612158	NC	
A	57 C10-C12	4.711	(3.751-5.670)		440027	44.9	
	24 Dodecane	5.619	5.670	-0.051	77187	NC	
A	3 C9 - C17	5.852	(2.506-9.198)		2016606	166.4	
A	47 C9 - C18	6.149	(2.506-9.791)		3191131	296.5	
A	60 C10-C16	6.156	(3.751-8.562)		1778165	161.3	
A	15 Kerosene	6.417	(2.506-10.328)		3722189	345.1	
A	25 C9-C19	6.417	(2.506-10.328)		3722189	304.9	
	26 C13	6.448	6.473	-0.025	110072	NC	
A	59 C12-C16	7.116	(5.670-8.562)		1415325	144.4	
$	27 n-Decanoic Acid (Surr)		7.139			ND	U
A	62 C10-C20	7.307	(3.751-10.864)		5213063	531.9	
A	28 C9-C24	7.648	(2.506-12.791)		8929820	911.1	
A	29 C9-C25	7.866	(2.506-13.226)		10128218	1033.4	
A	54 C10-C23	8.044	(3.751-12.338)		7682874	783.9	
A	4 C10-C24	8.271	(3.751-12.791)		8893118	907.4	
A	16 C10-C25	8.489	(3.751-13.226)		10091516	1029.6	
	45 Hexadecane	8.514	8.562	-0.048	183882	NC	
A	14 C10-C26	8.699	(3.751-13.646)		11454477	1168.7	
A	67 C12-C22	8.768	(5.670-11.867)		6567071	670.0	
A	12 Unknown Hydrocarbons	9.097	(3.751-14.443)		12942281	NC	
A	32 C10-C28	9.097	(3.751-14.443)		12942281	1320.5	
A	5 Diesel	9.097	(3.751-14.443)		12942281	1320.5	
A	30 C13-C22	9.170	(6.473-11.867)		6464527	659.6	
	44 Heptadecane	9.202	9.198	0.004	421385	NC	
A	31 C12-C24	9.230	(5.670-12.791)		8530278	870.3	
	49 n-Octadecane		9.791			ND	
A	9 Crude Oil Range Organics (	9.836	(2.506-17.167)		19572335	NC	
A	52 Mineral oil	9.836	(2.506-17.167)		19572335	1703.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		19503644	NC	
33 C19		10.328			ND	
A 64 C13-C28	10.458	(6.473-14.443)		12476897	1273.0	
A 17 C10-C36	10.459	(3.751-17.167)		19466942	1986.2	
A 13 C9-C40	10.588	(2.506-18.671)		21115374	2647.8	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		21115374	NC	
A 58 C16-C24	10.676	(8.562-12.791)		7298835	744.7	
61 icosane		10.864			ND	
A 6 C10-C40	11.211	(3.751-18.671)		21075760	2642.7	
$ 34 p-Terphenyl	11.870	11.859	0.011	198572	16.7	
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		20644345	2587.9	
36 Tricosane	12.339	12.338	0.001	473286	NC	
A 66 C13-C40	12.572	(6.473-18.671)		20513149	2571.3	
37 n-Tetracosane	12.851	12.791	0.060	485914	NC	
A 2 C16-C36 ORO	12.864	(8.562-17.167)		17746733	2338.3	
38 C25	13.227	13.226	0.001	422563	NC	
A 19 C16-C40	13.616	(8.562-18.671)		19289772	2416.9	
46 n-Hexacosane		13.646			ND	
A 20 C19-C36	13.747	(10.328-17.167)		14554543	1686.8	
A 55 C23-C32	14.112	(12.338-15.887)		7715829	1622.6	
39 n-Octacosane	14.366	14.443	-0.077	874957	NC	
65 C29	14.825	14.821	0.004	815241	NC	
A 7 Motor Oil	14.979	(12.791-17.167)		9682167	1589.3	
A 40 C24-C36	14.979	(12.791-17.167)		9976503	1637.6	M
A 50 C25-C36	15.196	(13.226-17.167)		8425715	1456.3	
A 10 C22-C40	15.269	(11.867-18.671)		12745532	1524.6	
A 41 C23-C40	15.504	(12.338-18.671)		11962368	1458.6	
A 8 C24-C40	15.731	(12.791-18.671)		11019324	1385.2	
56 Dotriacontane	15.846	15.887	-0.041	428128	NC	
A 51 C28-C40	16.557	(14.443-18.671)		7434528	1341.0	
A 63 C29-C40	16.746	(14.821-18.671)		6737098	1363.8	
42 n-Hexatriacontane		17.167			ND	
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

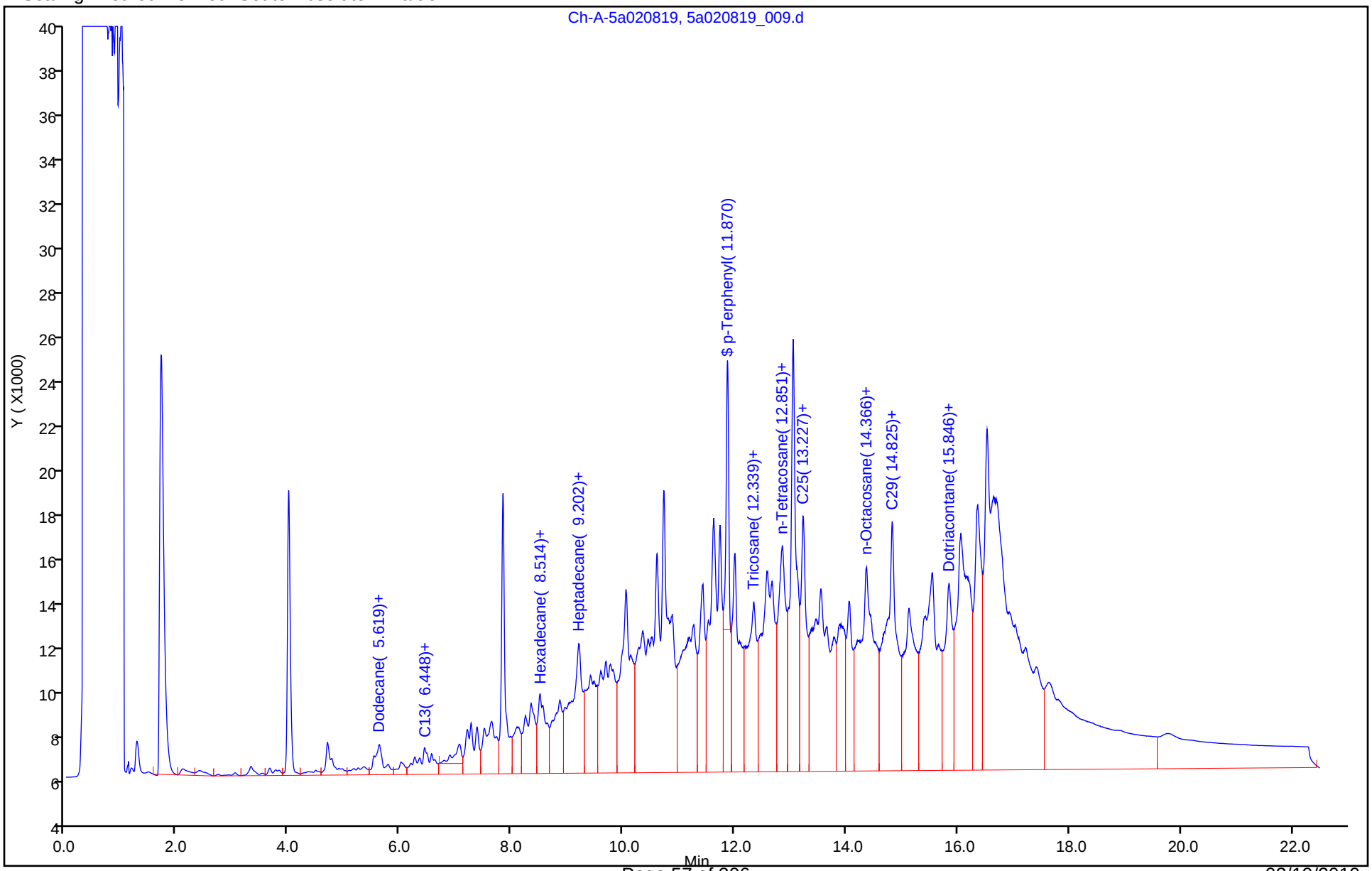
Report Date: 11-Feb-2019 10:30:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_009.d

Injection Date:	08-Feb-2019 11:59:06	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-9-E	Lab Sample ID:	720-91048-9	Worklist Smp#:	9
Client ID:	DG-V17S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_009.d				
Lims ID:	720-91048-E-9-E				
Client ID:	DG-V17S-9.5-10				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 11:59:06	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056502-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Feb-2019 10:28:30	Calib Date:	08-Feb-2019 08:45:30		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0312				
First Level Reviewer: hayashid		Date:	11-Feb-2019 10:30:42		

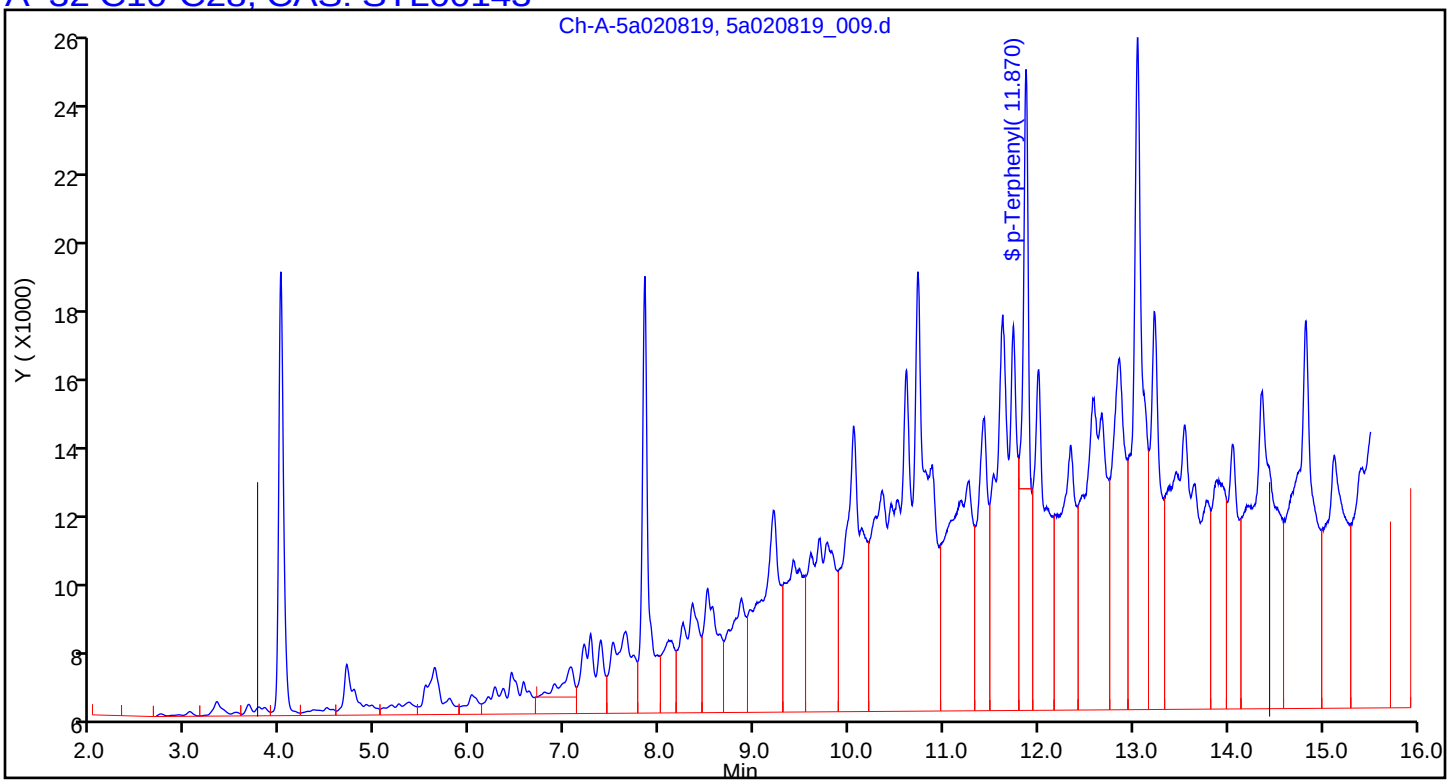
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	16.7	66.61

Report Date: 11-Feb-2019 10:30:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_009.d				
Injection Date:	08-Feb-2019 11:59:06	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-9-E	Lab Sample ID:	720-91048-9		
Client ID:	DG-V17S-9.5-10				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

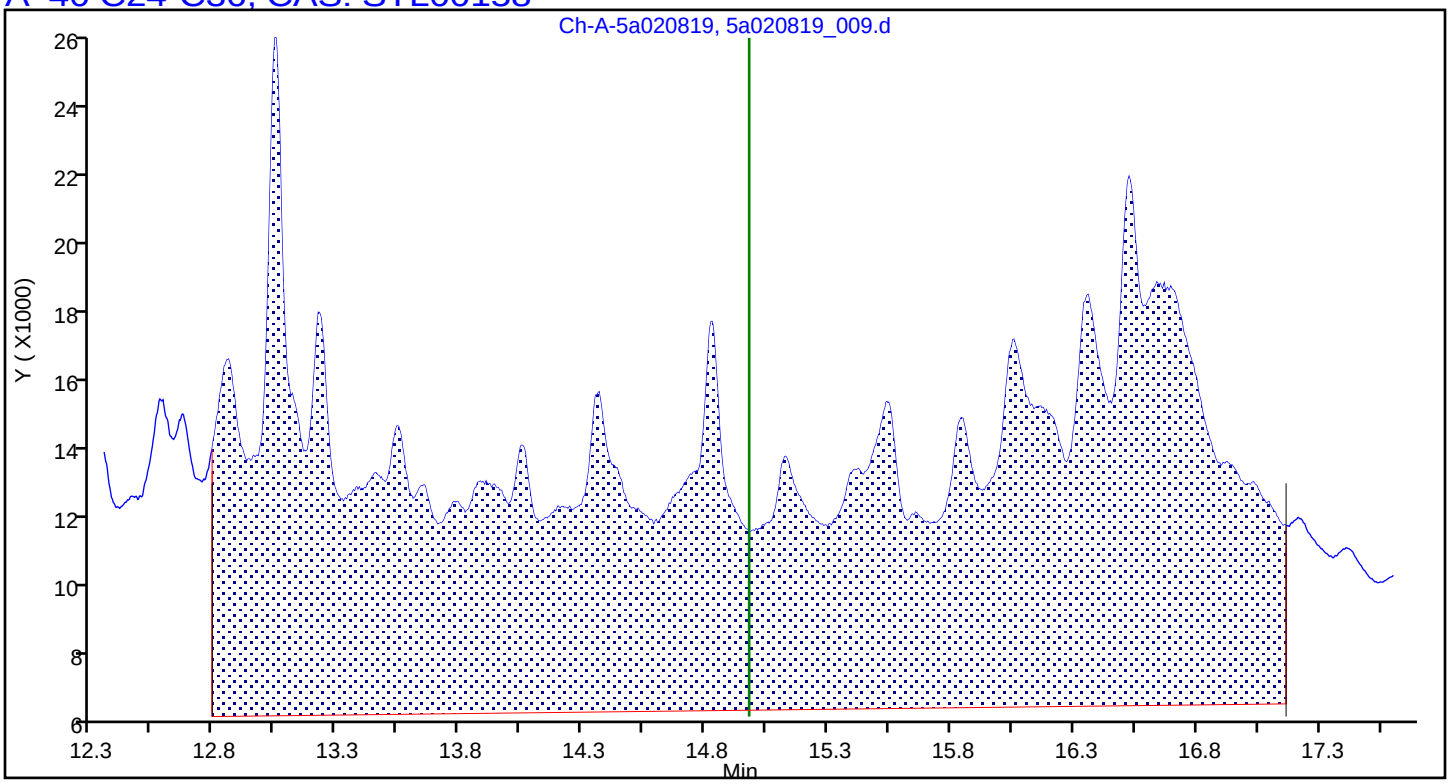


Report Date: 11-Feb-2019 10:30:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_009.d				
Injection Date:	08-Feb-2019 11:59:06	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-9-E	Lab Sample ID:	720-91048-9		
Client ID:	DG-V17S-9.5-10				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

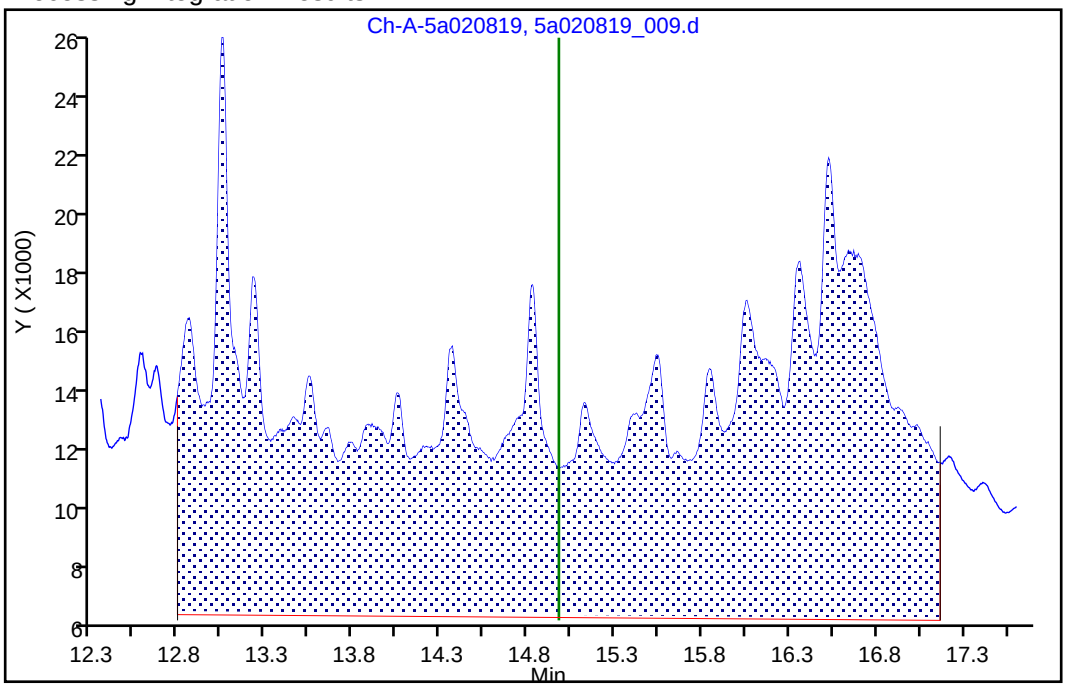
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_009.d				
Injection Date:	08-Feb-2019 11:59:06	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-9-E	Lab Sample ID:	720-91048-9		
Client ID:	DG-V17S-9.5-10				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.979, CAS: STL00158

Signal: 1

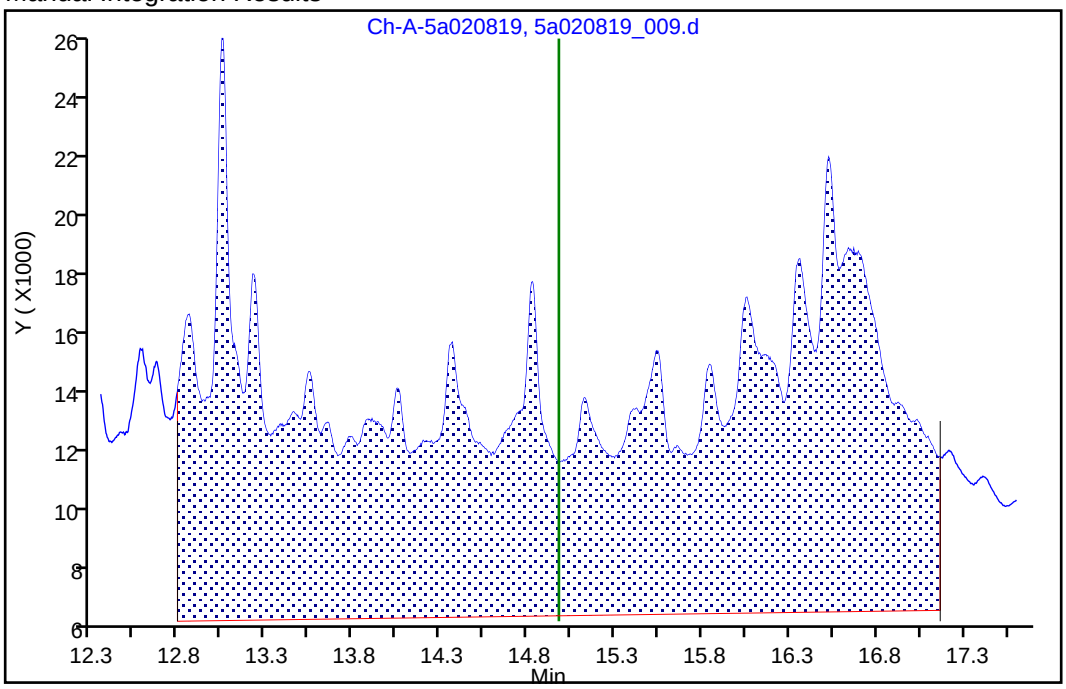
Processing Integration Results

RT: 14.98
Response: 9682167
Amount: 1589.2948



Manual Integration Results

RT: 14.98
Response: 9976503
Amount: 1637.6090



Reviewer: luj, 08-Feb-2019 12:41:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_015.d
Lims ID: 720-91048-E-10-E
Client ID: DG-U17S-0.5-1
Sample Type: Client
Inject. Date: 09-Feb-2019 17:21:36 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 005 Name: 720-0056518-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:03:29 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:03:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.447	2.508	-0.061	1587	NC	
23 n-Decane	3.784	3.750	0.034	3231	NC	
A 21 Stoddard Solvent	4.489	(2.508-6.469)		40832	NC	
A 1 C9-C13	4.489	(2.508-6.469)		40832	NC	
A 57 C10-C12	4.708	(3.750-5.666)		13305	1.36	
24 Dodecane	5.669	5.666	0.003	7023	NC	
A 3 C9 - C17	5.850	(2.508-9.191)		160133	13.2	
A 47 C9 - C18	6.145	(2.508-9.782)		263371	24.5	
A 60 C10-C16	6.153	(3.750-8.556)		139338	12.6	
A 25 C9-C19	6.415	(2.508-10.322)		263371	21.6	
A 15 Kerosene	6.415	(2.508-10.322)		263371	24.4	
26 C13	6.459	6.469	-0.010	12380	NC	
A 59 C12-C16	7.111	(5.666-8.556)		126033	12.9	
$ 27 n-Decanoic Acid (Surr)		7.131			ND	U
A 62 C10-C20	7.304	(3.750-10.858)		447983	45.7	
A 28 C9-C24	7.646	(2.508-12.785)		1349201	137.7	
A 29 C9-C25	7.864	(2.508-13.221)		1349201	137.7	
A 54 C10-C23	8.041	(3.750-12.332)		1070262	109.2	
A 4 C10-C24	8.267	(3.750-12.785)		1345288	137.3	
A 16 C10-C25	8.485	(3.750-13.221)		1345288	137.3	
45 Hexadecane	8.518	8.556	-0.038	17694	NC	
A 14 C10-C26	8.695	(3.750-13.641)		2147685	219.1	M
A 67 C12-C22	8.763	(5.666-11.861)		707529	72.2	
A 5 Diesel	9.094	(3.750-14.438)		3709670	378.5	M
A 32 C10-C28	9.094	(3.750-14.438)		3709670	378.5	M
A 12 Unknown Hydrocarbons	9.094	(3.750-14.438)		3709670	NC	M
A 30 C13-C22	9.165	(6.469-11.861)		696295	71.0	
44 Heptadecane	9.201	9.191	0.010	42107	NC	
A 31 C12-C24	9.226	(5.666-12.785)		1331983	135.9	
49 n-Octadecane	9.768	9.782	-0.014	61131	NC	
A 11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		14042020	NC	M
A 52 Mineral oil	9.835	(2.508-17.162)		10520100	915.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		10520100	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		3685131	376.0	M
A 17 C10-C36	10.456	(3.750-17.162)		14038107	1432.3	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		12756356	NC	
A 13 C9-C40	10.586	(2.508-18.664)		12756356	1582.4	
A 58 C16-C24	10.670	(8.556-12.785)		1223644	124.8	
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		12749392	1581.7	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		12713830	1577.5	
36 Tricosane	12.340	12.332	0.008	275026	NC	
A 66 C13-C40	12.567	(6.469-18.664)		12684034	1573.8	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		10281353	1354.7	
38 C25	13.236	13.221	0.015	802397	NC	
A 19 C16-C40	13.610	(8.556-18.664)		12517609	1553.7	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		9481400	1098.8	
A 55 C23-C32	14.107	(12.332-15.882)		6056784	1273.7	
39 n-Octacosane		14.438			ND	
65 C29	14.407	14.816	-0.409	1561985	NC	M
A 40 C24-C36	14.973	(12.785-17.162)		8234979	1351.7	
A 7 Motor Oil	14.973	(12.785-17.162)		8234979	1351.7	
A 50 C25-C36	15.191	(13.221-17.162)		7819910	1351.6	
A 10 C22-C40	15.262	(11.861-18.664)		11036585	1320.2	
A 41 C23-C40	15.498	(12.332-18.664)		10716804	1306.7	
A 8 C24-C40	15.724	(12.785-18.664)		10357385	1302.0	
56 Dotriacontane	15.911	15.882	0.029	1781683	NC	
A 51 C28-C40	16.551	(14.438-18.664)		8255561	1531.6	
A 63 C29-C40	16.740	(14.816-18.664)		7487074	1567.7	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

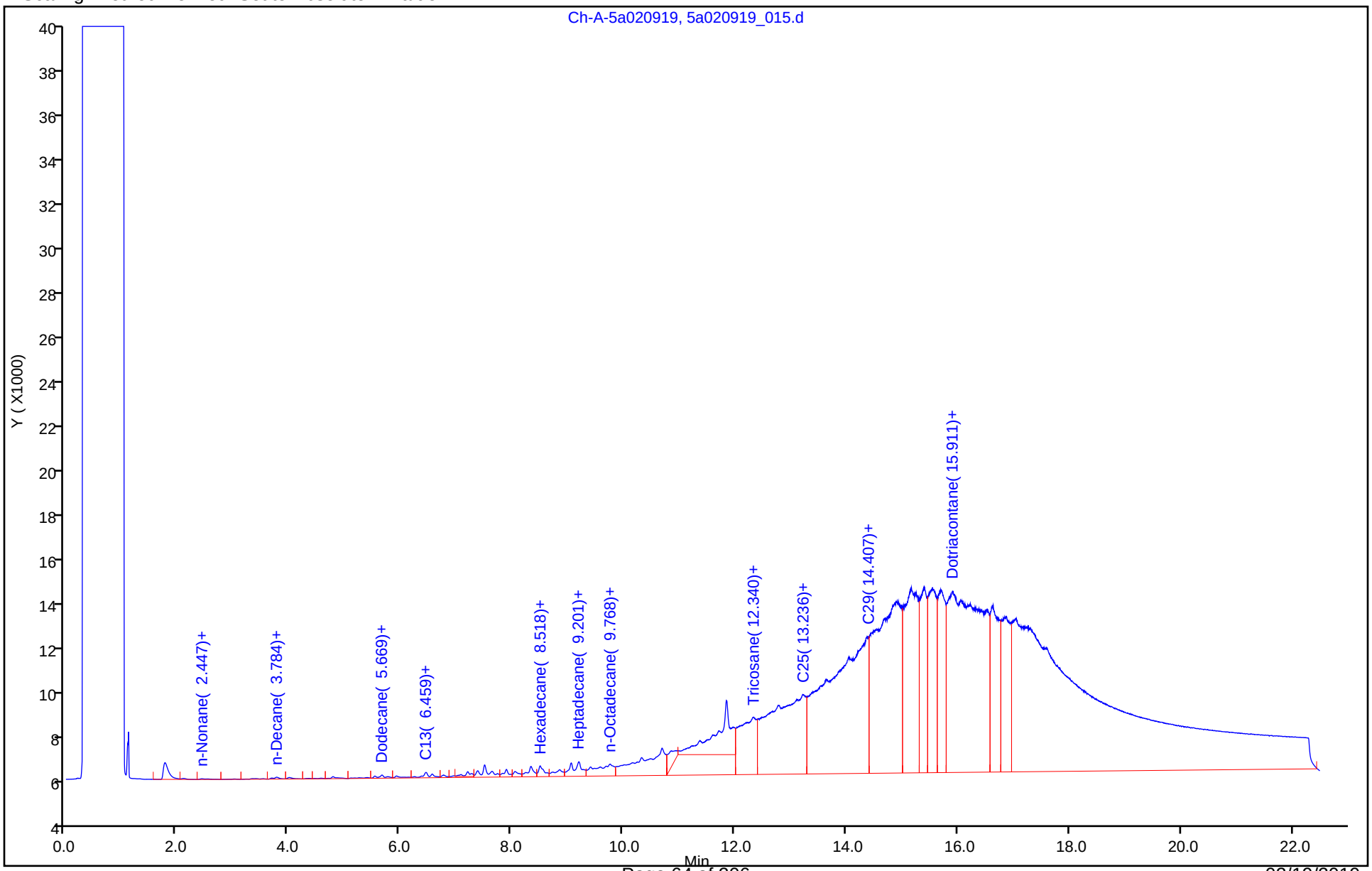
Report Date: 11-Feb-2019 12:03:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_015.d

Injection Date:	09-Feb-2019 17:21:36	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-10-E	Lab Sample ID:	720-91048-10	Worklist Smp#:	15
Client ID:	DG-U17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

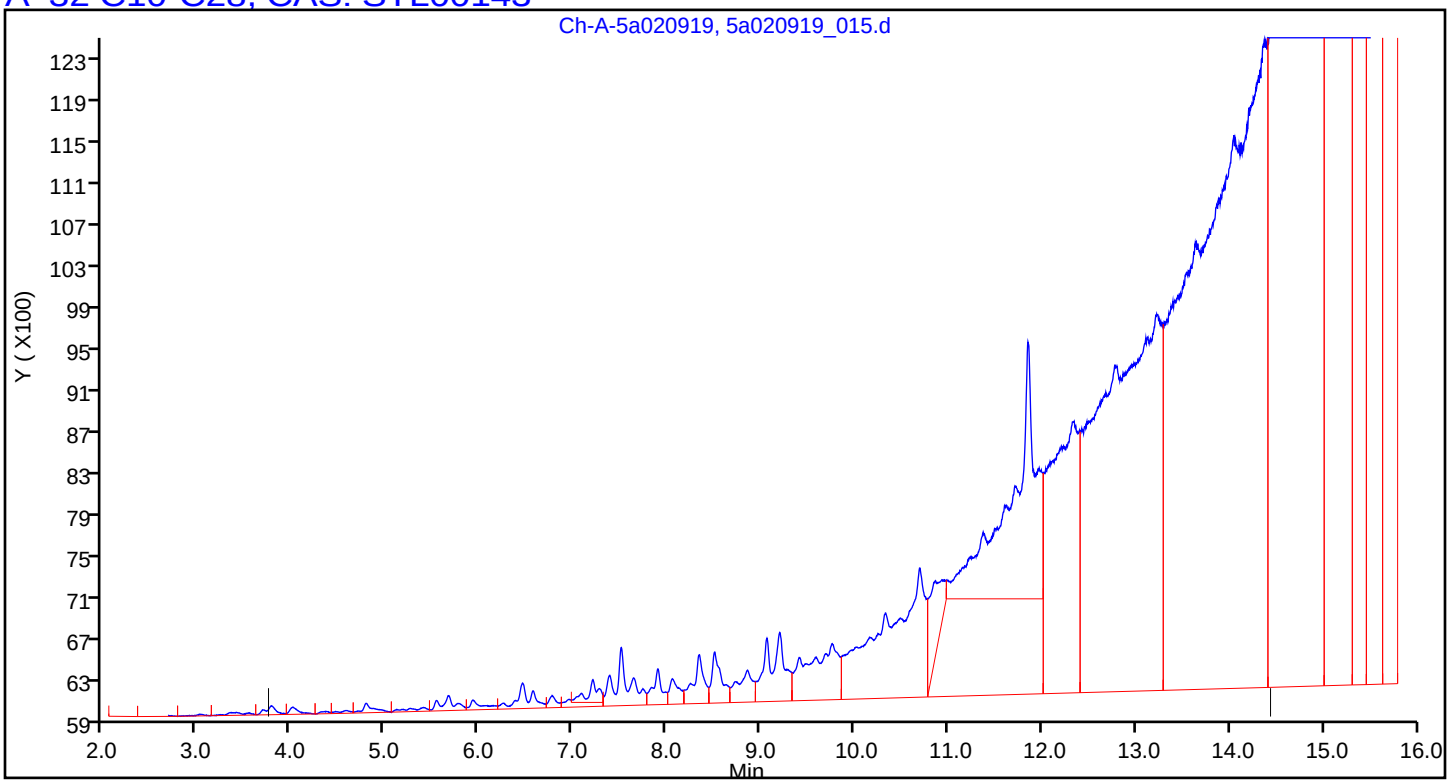


Report Date: 11-Feb-2019 12:03:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_015.d				
Injection Date:	09-Feb-2019 17:21:36	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-10-E	Lab Sample ID:	720-91048-10		
Client ID:	DG-U17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

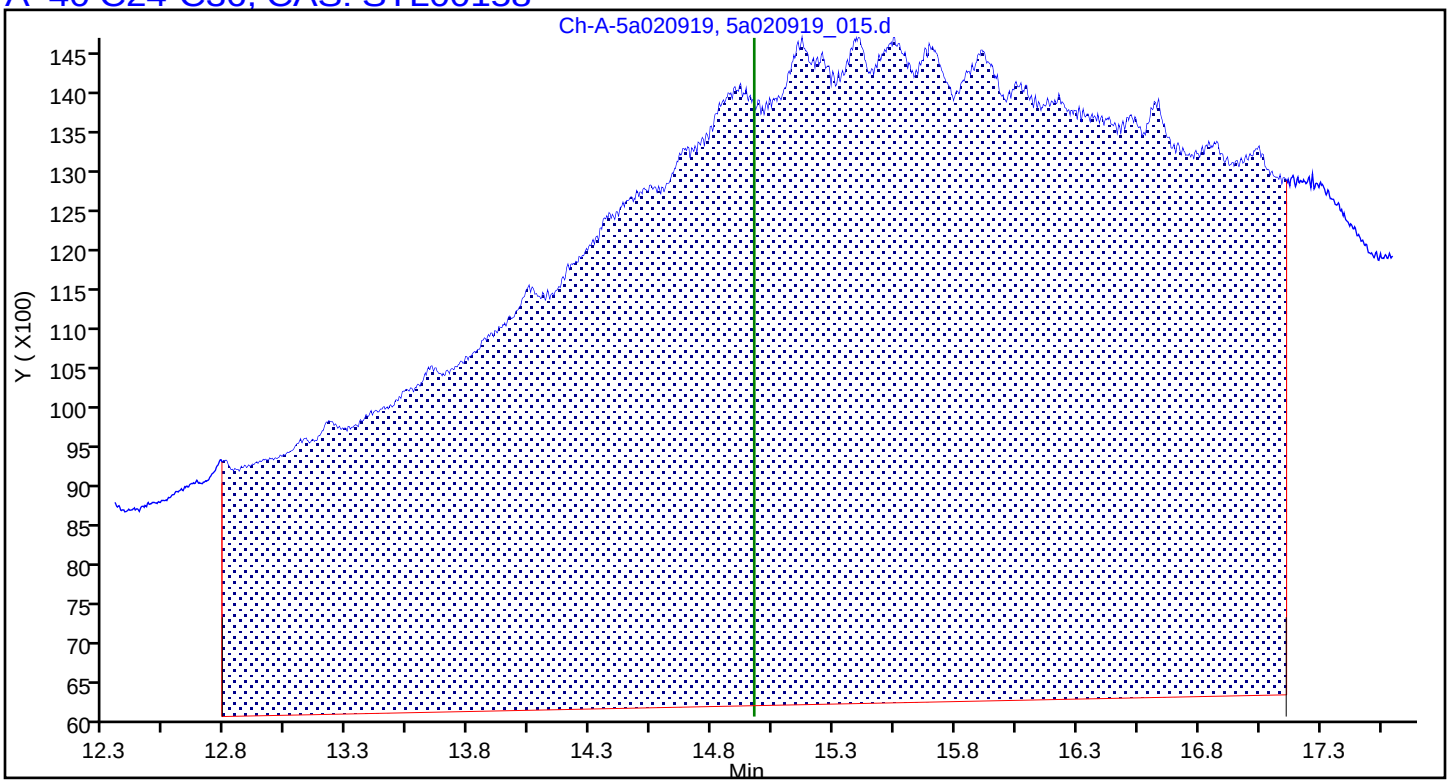


Report Date: 11-Feb-2019 12:03:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_015.d				
Injection Date:	09-Feb-2019 17:21:36	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-10-E	Lab Sample ID:	720-91048-10		
Client ID:	DG-U17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

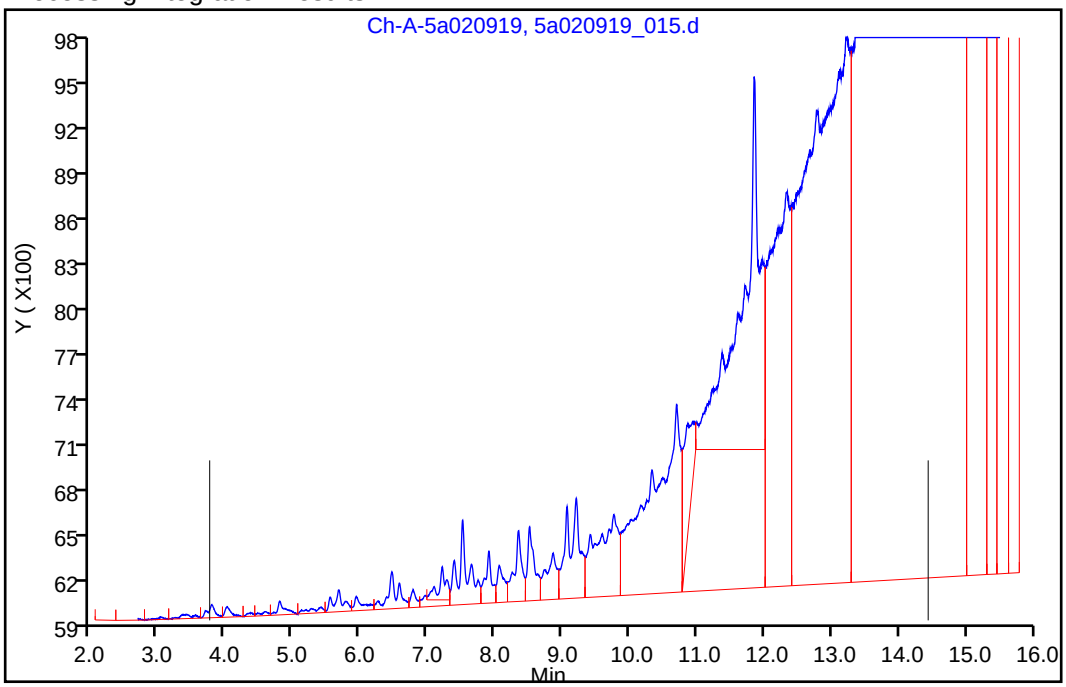
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_015.d				
Injection Date:	09-Feb-2019 17:21:36	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-10-E	Lab Sample ID:	720-91048-10		
Client ID:	DG-U17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

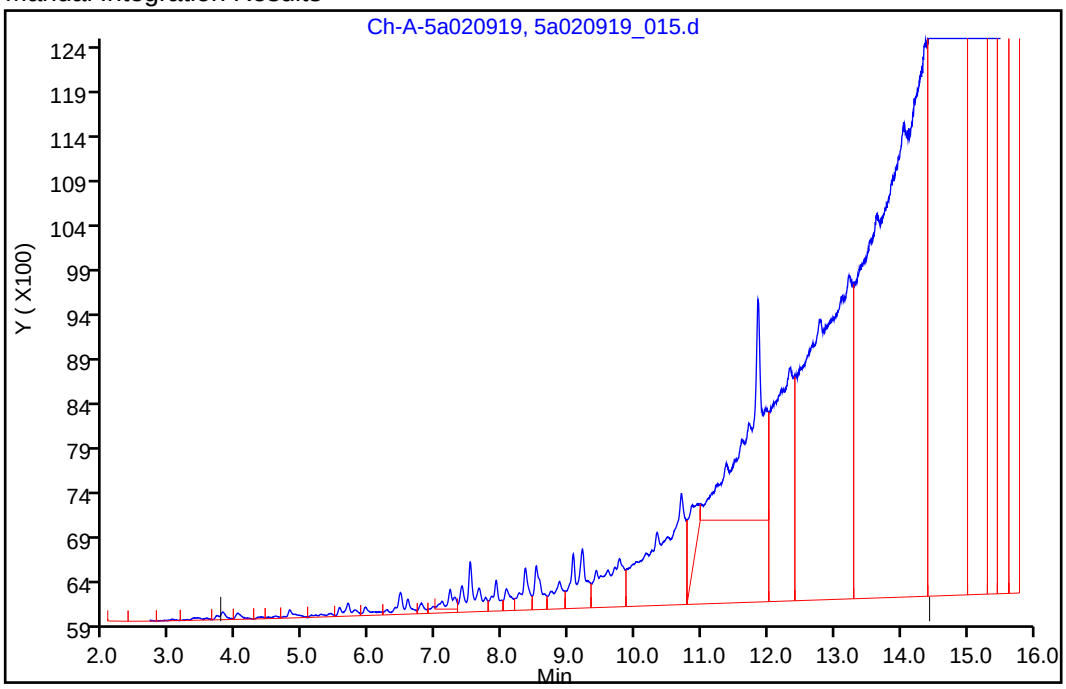
Processing Integration Results

RT: 9.09
Response: 1902408
Amount: 194.1032



Manual Integration Results

RT: 9.09
Response: 3709670
Amount: 378.4986



Reviewer: hayashid, 11-Feb-2019 12:03:17

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

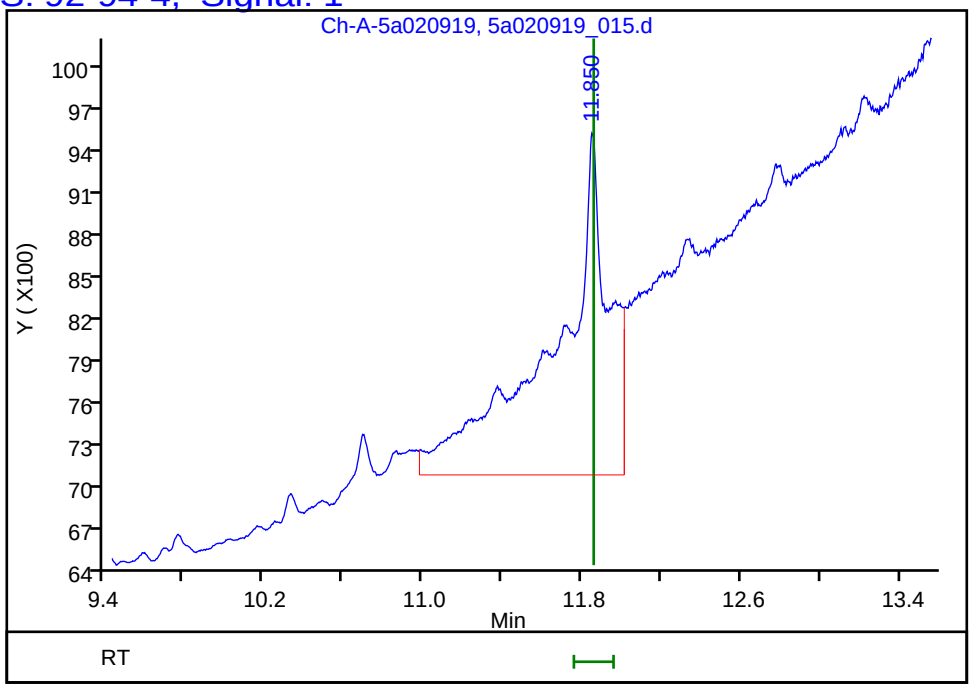
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_015.d

Injection Date:	09-Feb-2019 17:21:36	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-10-E	Lab Sample ID:	720-91048-10		
Client ID:	DG-U17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.85
Response: 236543
Amount: 19.836035



Reviewer: hayashid, 11-Feb-2019 12:03:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_010.d
Lims ID: 720-91048-E-11-E
Client ID: DUP-122
Sample Type: Client
Inject. Date: 08-Feb-2019 12:28:12 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 038 Name: 720-0056502-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 11:34:27 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 11:50:30

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.506			ND	
	23 n-Decane	3.773	3.751	0.022	798	NC	
A	1 C9-C13	4.490	(2.506-6.473)		8392	NC	
A	21 Stoddard Solvent	4.490	(2.506-6.473)		8392	NC	
A	57 C10-C12	4.711	(3.751-5.670)		4555	0.4647	
	24 Dodecane	5.719	5.670	0.049	663	NC	
A	3 C9 - C17	5.852	(2.506-9.198)		12170	1.00	
A	47 C9 - C18	6.149	(2.506-9.791)		13889	1.29	
A	60 C10-C16	6.156	(3.751-8.562)		9711	0.8811	
A	15 Kerosene	6.417	(2.506-10.328)		23064	2.14	
A	25 C9-C19	6.417	(2.506-10.328)		23064	1.89	
	26 C13	6.439	6.473	-0.034	2230	NC	
A	59 C12-C16	7.116	(5.670-8.562)		5156	0.5261	
$	27 n-Decanoic Acid (Surr)		7.139			ND	
A	62 C10-C20	7.307	(3.751-10.864)		41455	4.23	
A	28 C9-C24	7.648	(2.506-12.791)		113978	11.6	
A	29 C9-C25	7.866	(2.506-13.226)		113978	11.6	
A	54 C10-C23	8.044	(3.751-12.338)		82102	8.38	
A	4 C10-C24	8.271	(3.751-12.791)		113034	11.5	
A	16 C10-C25	8.489	(3.751-13.226)		113034	11.5	
	45 Hexadecane	8.575	8.562	0.013	1515	NC	
A	14 C10-C26	8.699	(3.751-13.646)		140841	14.4	
A	67 C12-C22	8.768	(5.670-11.867)		77547	7.91	
A	12 Unknown Hydrocarbons	9.097	(3.751-14.443)		255545	NC	M
A	32 C10-C28	9.097	(3.751-14.443)		255545	26.1	M
A	5 Diesel	9.097	(3.751-14.443)		255545	26.1	M
A	30 C13-C22	9.170	(6.473-11.867)		76884	7.84	
	44 Heptadecane	9.211	9.198	0.013	1719	NC	
A	31 C12-C24	9.230	(5.670-12.791)		108479	11.1	
	49 n-Octadecane	9.811	9.791	0.020	2964	NC	
A	9 Crude Oil Range Organics (	9.836	(2.506-17.167)		1417563	NC	
A	52 Mineral oil	9.836	(2.506-17.167)		1417563	123.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		705486	NC	M
33 C19		10.328			ND	
A 64 C13-C28	10.458	(6.473-14.443)		250327	25.5	M
A 17 C10-C36	10.459	(3.751-17.167)		704542	71.9	M
A 13 C9-C40	10.588	(2.506-18.671)		2083847	222.1	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		2083847	NC	
A 58 C16-C24	10.676	(8.562-12.791)		103323	10.5	
61 icosane		10.864			ND	
A 6 C10-C40	11.211	(3.751-18.671)		2081613	222.3	
$ 34 p-Terphenyl	11.857	11.859	-0.002	304126	25.5	M
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		2072903	221.8	
36 Tricosane	12.344	12.338	0.006	9664	NC	
A 66 C13-C40	12.572	(6.473-18.671)		2067714	221.3	
37 n-Tetracosane	12.789	12.791	-0.002	21268	NC	
A 2 C16-C36 ORO	12.864	(8.562-17.167)		1379901	181.8	
38 C25	13.234	13.226	0.008	27807	NC	
A 19 C16-C40	13.616	(8.562-18.671)		2046185	218.9	
46 n-Hexacosane	13.651	13.646	0.005	34062	NC	
A 20 C19-C36	13.747	(10.328-17.167)		913059	105.8	
A 55 C23-C32	14.112	(12.338-15.887)		691496	145.4	
39 n-Octacosane		14.443			ND	
65 C29	14.397	14.821	-0.424	36394	NC	M
A 7 Motor Oil	14.979	(12.791-17.167)		879767	144.4	
A 40 C24-C36	14.979	(12.791-17.167)		879767	144.4	
A 50 C25-C36	15.196	(13.226-17.167)		857561	148.2	
A 10 C22-C40	15.269	(11.867-18.671)		1287524	154.0	
A 41 C23-C40	15.504	(12.338-18.671)		1469011	179.1	
A 8 C24-C40	15.731	(12.791-18.671)		1454047	182.8	
56 Dotriacontane		15.887			ND	
A 51 C28-C40	16.557	(14.443-18.671)		1307610	187.4	
A 63 C29-C40	16.746	(14.821-18.671)		1242880	194.7	
42 n-Hexatriacontane		17.167			ND	
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

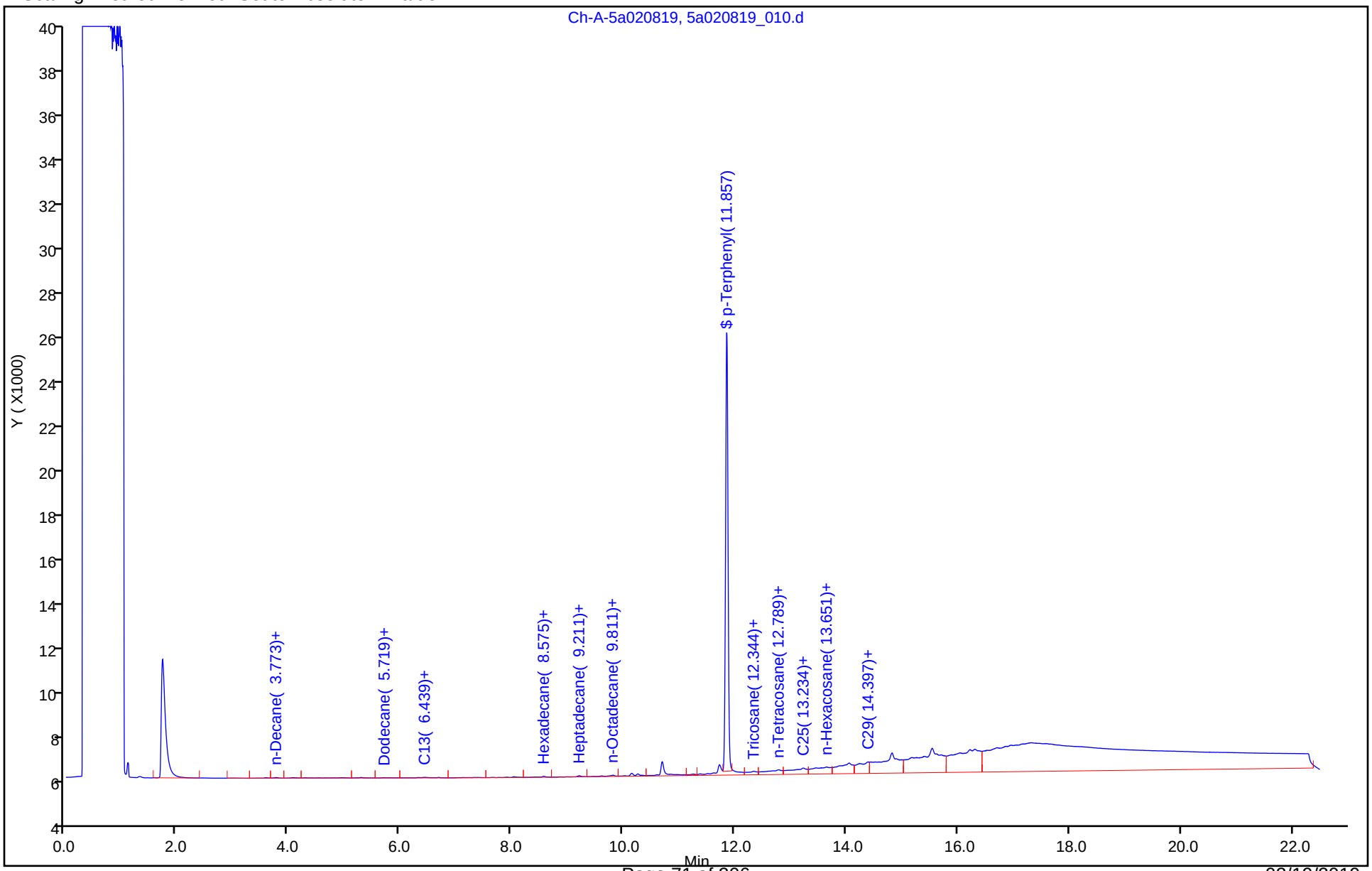
Report Date: 11-Feb-2019 11:50:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_010.d

Injection Date:	08-Feb-2019 12:28:12	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-11-E	Lab Sample ID:	720-91048-11	Worklist Smp#:	10
Client ID:	DUP-122				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_010.d				
Lims ID:	720-91048-E-11-E				
Client ID:	DUP-122				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 12:28:12	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 038 Name: 720-0056502-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Feb-2019 11:34:27	Calib Date:	08-Feb-2019 08:45:30		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0312				
First Level Reviewer: hayashid		Date:	11-Feb-2019 11:50:30		

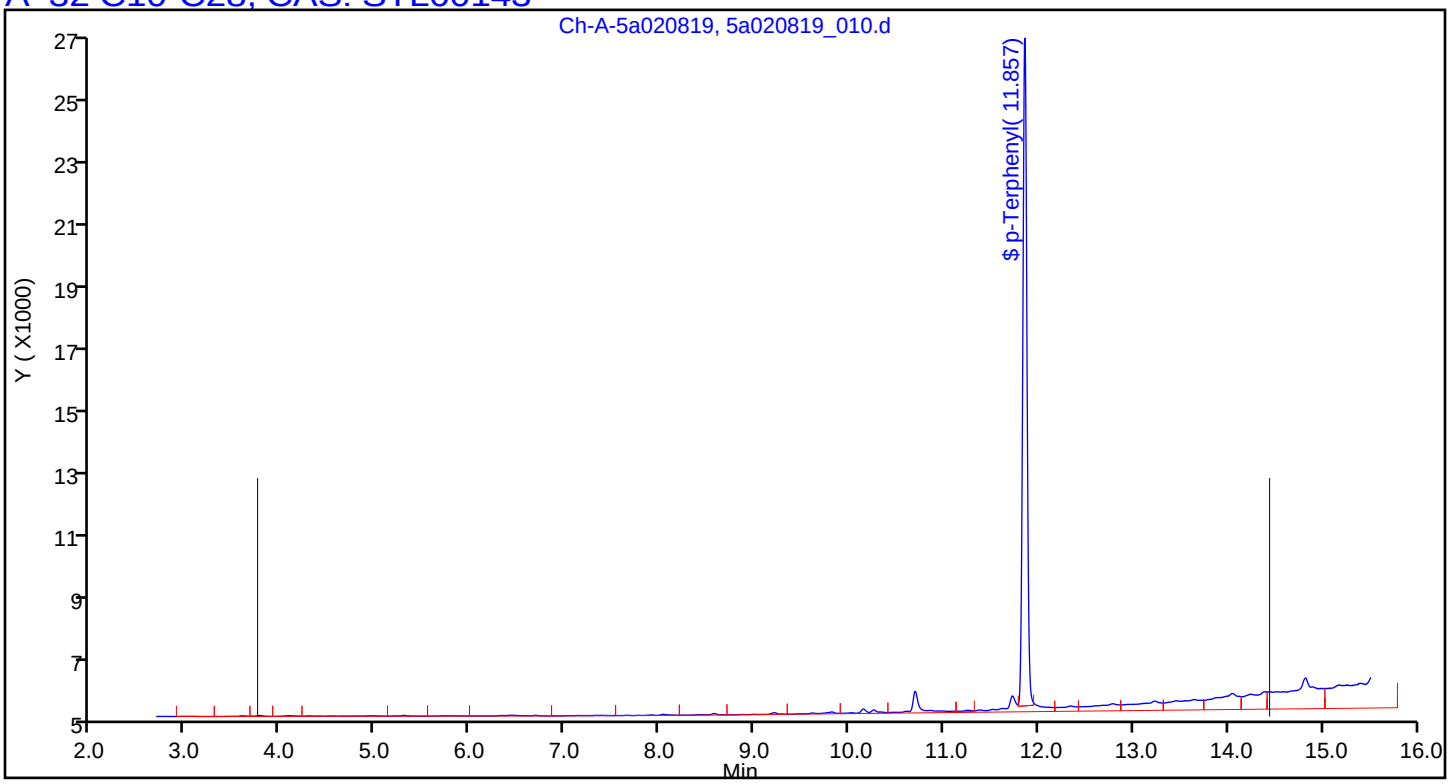
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.5	102.01

Report Date: 11-Feb-2019 11:50:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_010.d				
Injection Date:	08-Feb-2019 12:28:12	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-11-E	Lab Sample ID:	720-91048-11		
Client ID:	DUP-122				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

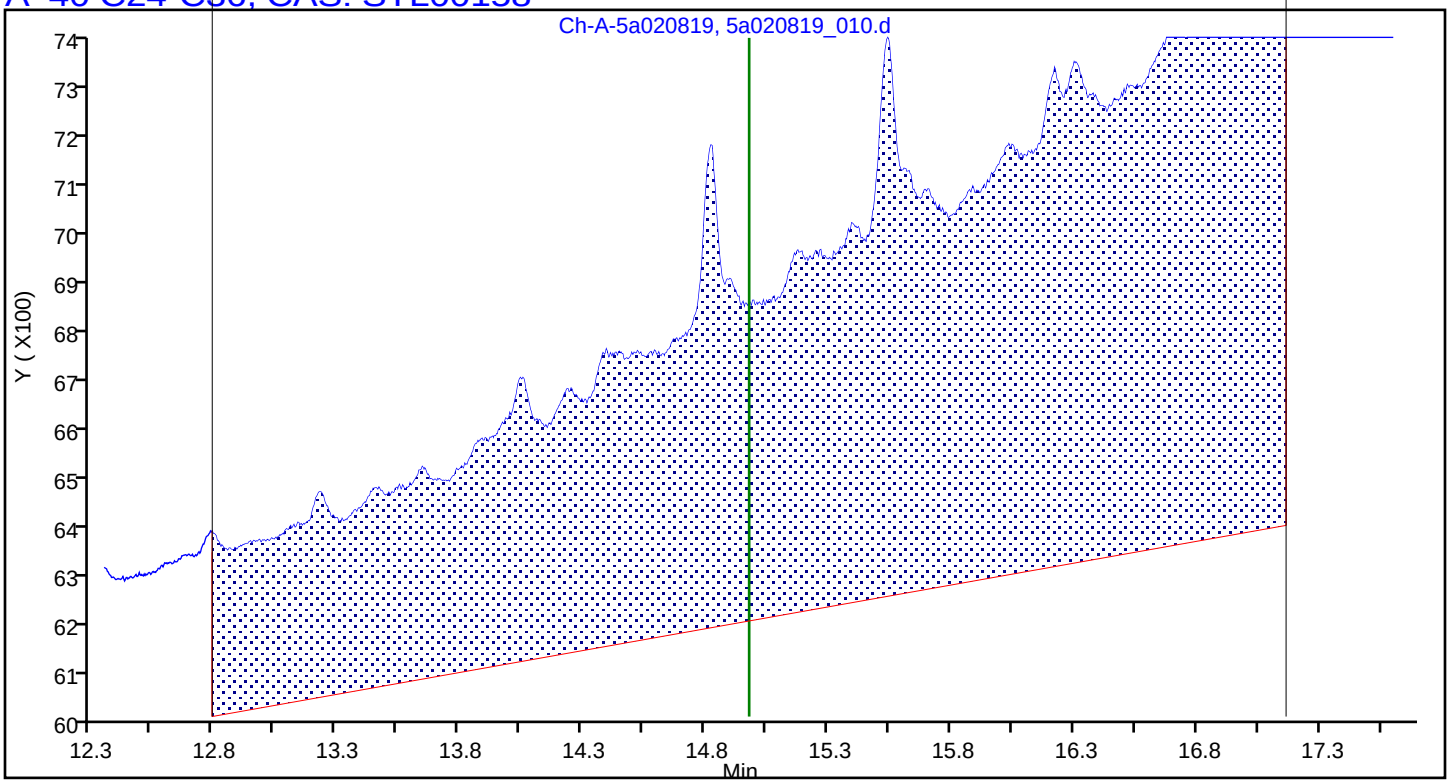


Report Date: 11-Feb-2019 11:50:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_010.d				
Injection Date:	08-Feb-2019 12:28:12	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-11-E	Lab Sample ID:	720-91048-11		
Client ID:	DUP-122				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

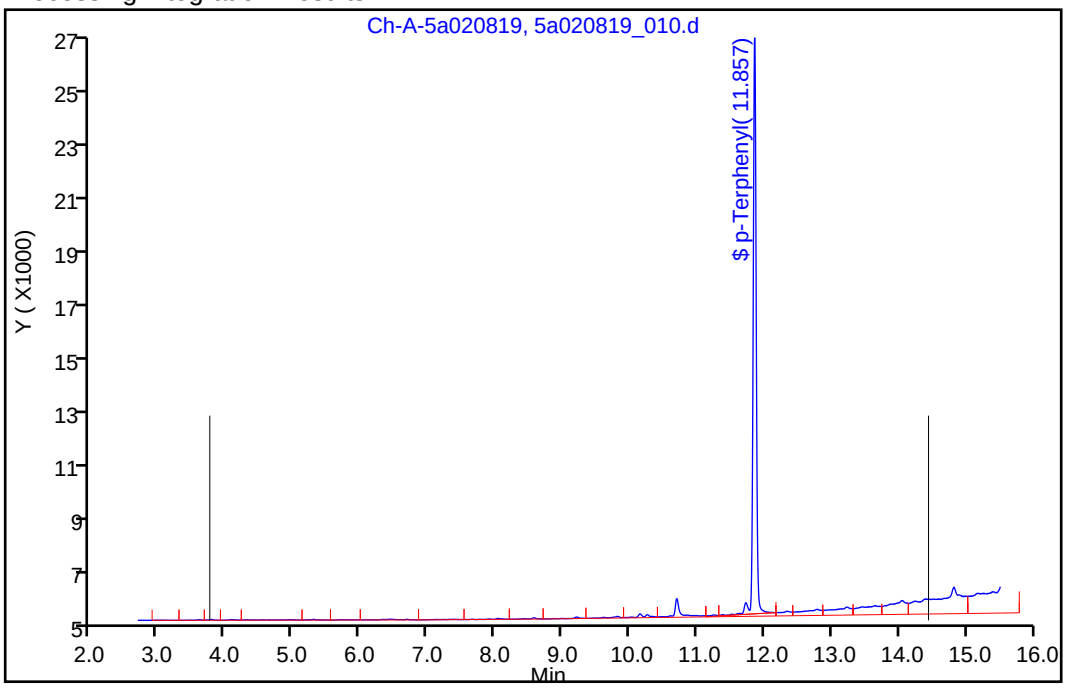
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Injection Date:	08-Feb-2019 12:28:12	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-11-E	Lab Sample ID:	720-91048-11		
Client ID:	DUP-122				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

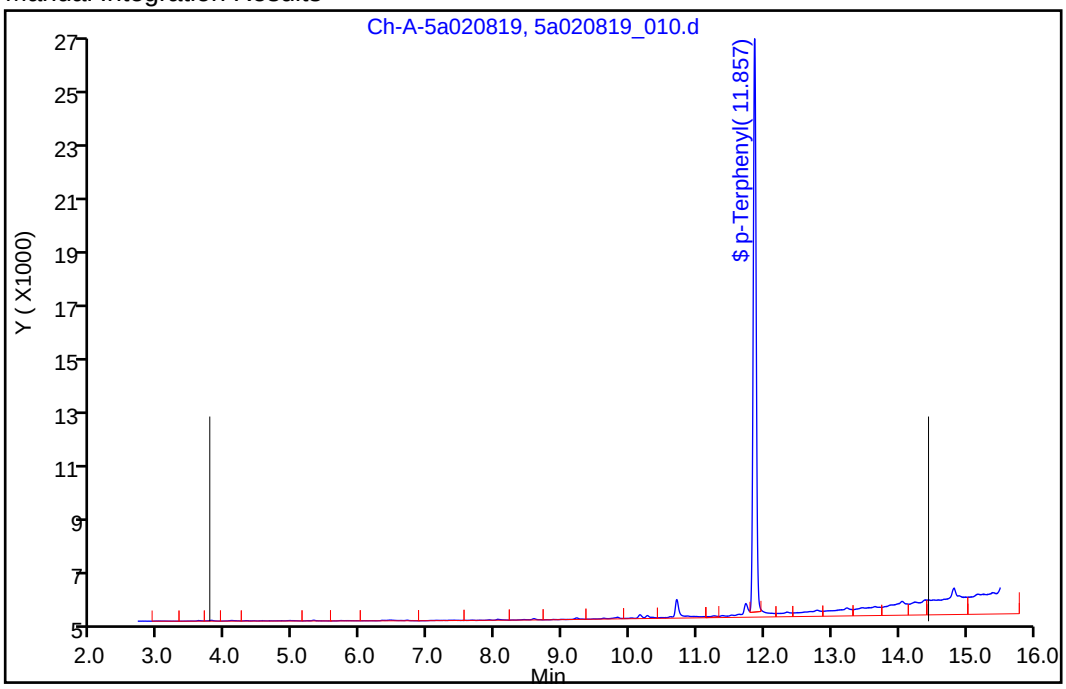
Processing Integration Results

RT: 9.10
Response: 201782
Amount: 20.587872



Manual Integration Results

RT: 9.10
Response: 255545
Amount: 26.073325



Reviewer: luj, 08-Feb-2019 13:33:01

Audit Action: Split an Integrated Peak Audit Reason: Wrong Peak

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

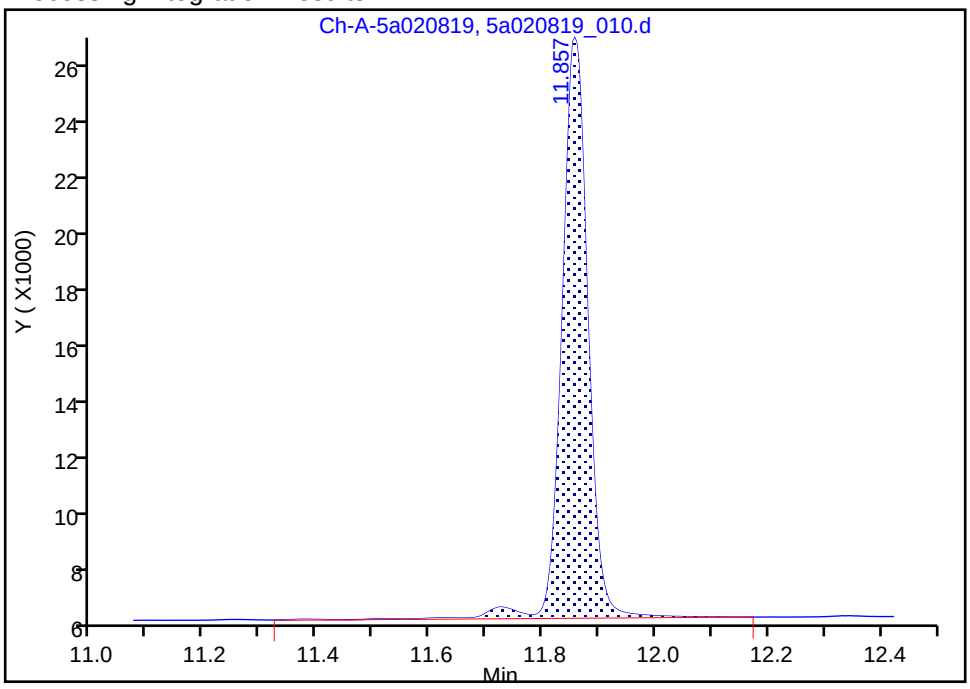
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_010.d				
Injection Date:	08-Feb-2019 12:28:12	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-11-E	Lab Sample ID:	720-91048-11		
Client ID:	DUP-122				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

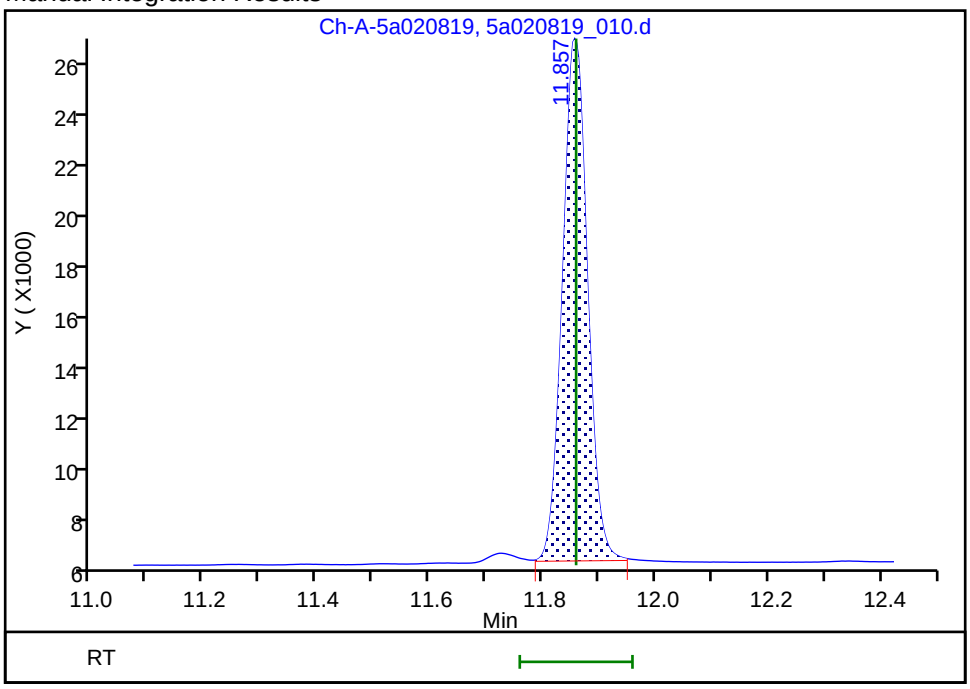
Processing Integration Results

RT: 11.86
Area: 321495
Amount: 26.959944
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 304126
Amount: 25.503413
Amount Units: mg/L



Reviewer: luj, 08-Feb-2019 13:33:15

Audit Action: Manually Integrated Audit Reason: Wrong Peak

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_016.d
Lims ID: 720-91048-E-12-E
Client ID: DUP-124
Sample Type: Client
Inject. Date: 09-Feb-2019 17:51:27 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 006 Name: 720-0056518-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:04:23 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:04:23

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.514	2.508	0.006	681	NC	
	23 n-Decane		3.750			ND	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		442744	NC	
A	1 C9-C13	4.489	(2.508-6.469)		442744	NC	
A	57 C10-C12	4.708	(3.750-5.666)		342936	35.0	
	24 Dodecane	5.649	5.666	-0.017	26719	NC	
A	3 C9 - C17	5.850	(2.508-9.191)		1132717	93.5	
A	47 C9 - C18	6.145	(2.508-9.782)		1611477	149.7	
A	60 C10-C16	6.153	(3.750-8.556)		997604	90.5	
A	25 C9-C19	6.415	(2.508-10.322)		1922155	157.5	
A	15 Kerosene	6.415	(2.508-10.322)		1922155	178.2	
	26 C13		6.469			ND	
A	59 C12-C16	7.111	(5.666-8.556)		681387	69.5	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		2692138	274.7	
A	28 C9-C24	7.646	(2.508-12.785)		5221929	532.8	
A	29 C9-C25	7.864	(2.508-13.221)		5962066	608.3	M
A	54 C10-C23	8.041	(3.750-12.332)		4214386	430.0	
A	4 C10-C24	8.267	(3.750-12.785)		5212805	531.9	
A	16 C10-C25	8.485	(3.750-13.221)		5952942	607.4	M
	45 Hexadecane	8.588	8.556	0.032	125989	NC	
A	14 C10-C26	8.695	(3.750-13.641)		5952942	607.4	M
A	67 C12-C22	8.763	(5.666-11.861)		3403954	347.3	
A	5 Diesel	9.094	(3.750-14.438)		8687654	886.4	M
A	32 C10-C28	9.094	(3.750-14.438)		8687654	886.4	M
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		8687654	NC	M
A	30 C13-C22	9.165	(6.469-11.861)		3359869	342.8	
	44 Heptadecane	9.208	9.191	0.017	382211	NC	
A	31 C12-C24	9.226	(5.666-12.785)		4896588	499.6	
	49 n-Octadecane	9.813	9.782	0.031	310678	NC	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		22276307	NC	M
A	52 Mineral oil	9.835	(2.508-17.162)		17895830	1558.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		17895830	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		8327352	849.6	M
A 17 C10-C36	10.456	(3.750-17.162)		22267183	2271.9	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		20692587	NC	
A 13 C9-C40	10.586	(2.508-18.664)		20692587	2593.9	
A 58 C16-C24	10.670	(8.556-12.785)		4215201	430.1	
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		20415459	2558.6	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		20300939	2544.1	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		20186443	2529.7	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		16660177	2195.2	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		19456934	2438.2	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		14307297	1658.1	
A 55 C23-C32	14.107	(12.332-15.882)		9126456	1919.2	
39 n-Octacosane		14.438			ND	
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		11556059	1896.9	M
A 7 Motor Oil	14.973	(12.785-17.162)		11418642	1874.3	
A 50 C25-C36	15.191	(13.221-17.162)		10700015	1849.4	
A 10 C22-C40	15.262	(11.861-18.664)		15299251	1830.0	
A 41 C23-C40	15.498	(12.332-18.664)		14658104	1787.3	
A 8 C24-C40	15.724	(12.785-18.664)		13986349	1758.1	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		10644400	2180.2	
A 63 C29-C40	16.740	(14.816-18.664)		9522989	2240.9	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

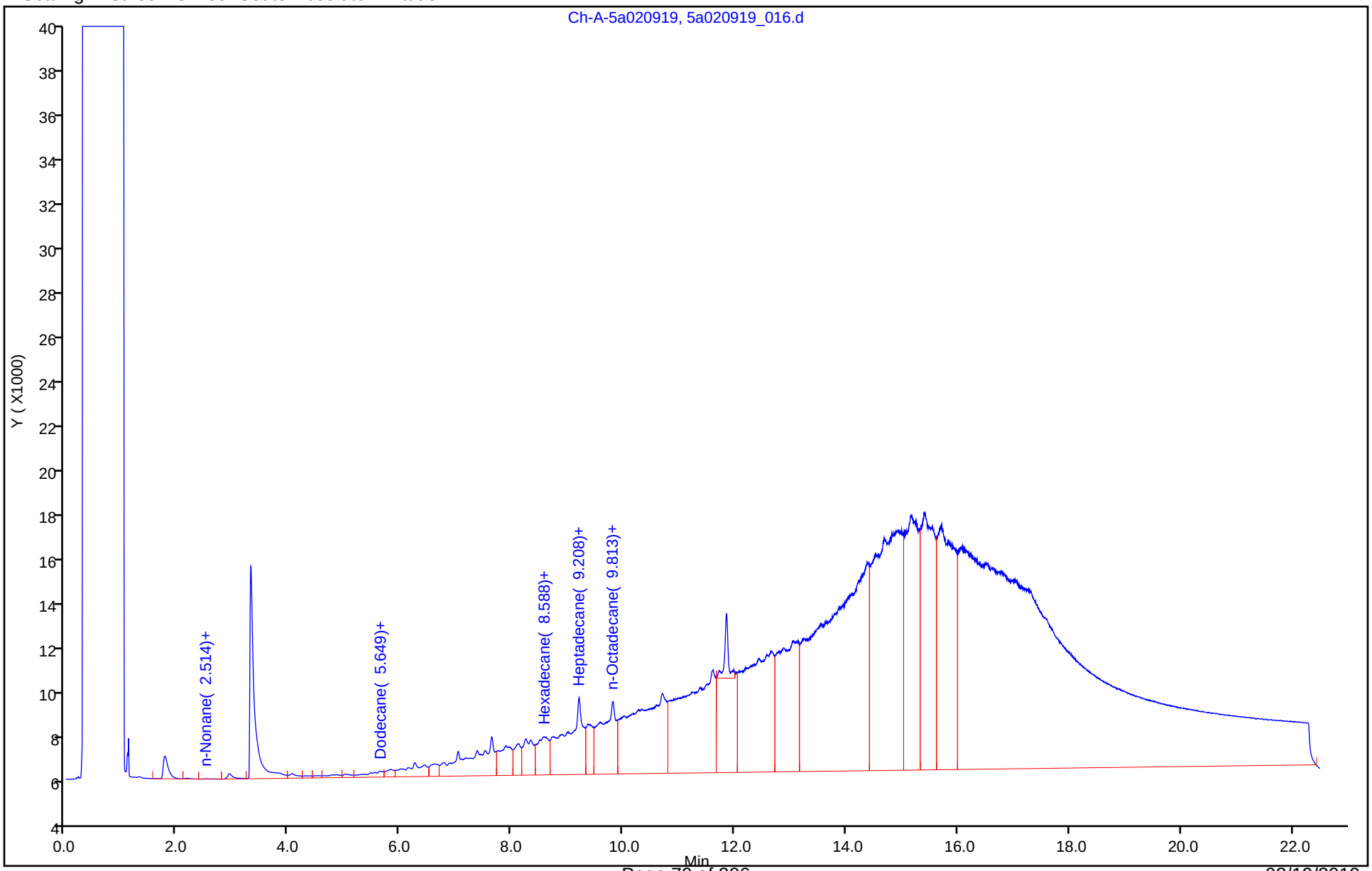
Report Date: 11-Feb-2019 12:04:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_016.d

Injection Date:	09-Feb-2019 17:51:27	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-12-E	Lab Sample ID:	720-91048-12	Worklist Smp#:	16
Client ID:	DUP-124				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

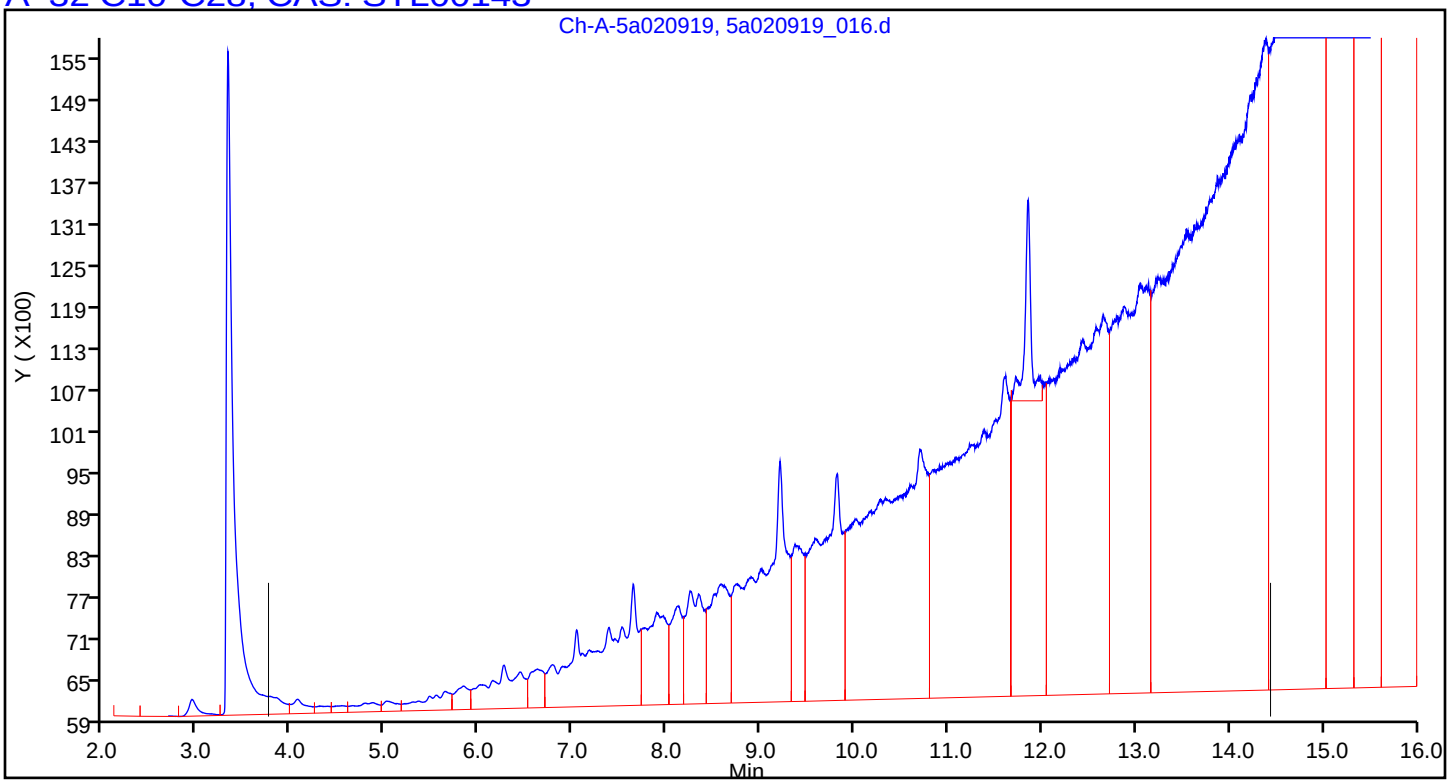


Report Date: 11-Feb-2019 12:04:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_016.d				
Injection Date:	09-Feb-2019 17:51:27	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-12-E	Lab Sample ID:	720-91048-12		
Client ID:	DUP-124				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

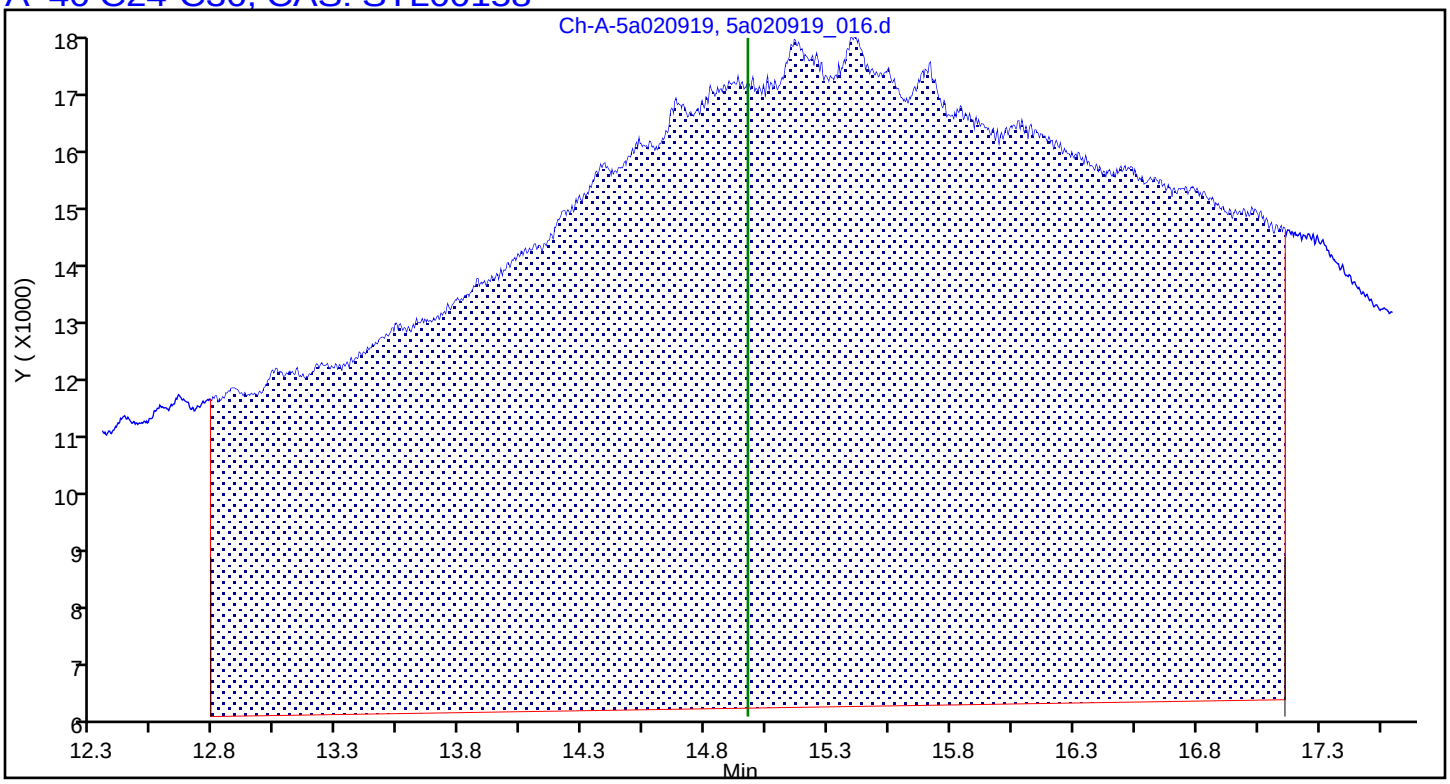


Report Date: 11-Feb-2019 12:04:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_016.d				
Injection Date:	09-Feb-2019 17:51:27	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-12-E	Lab Sample ID:	720-91048-12		
Client ID:	DUP-124				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

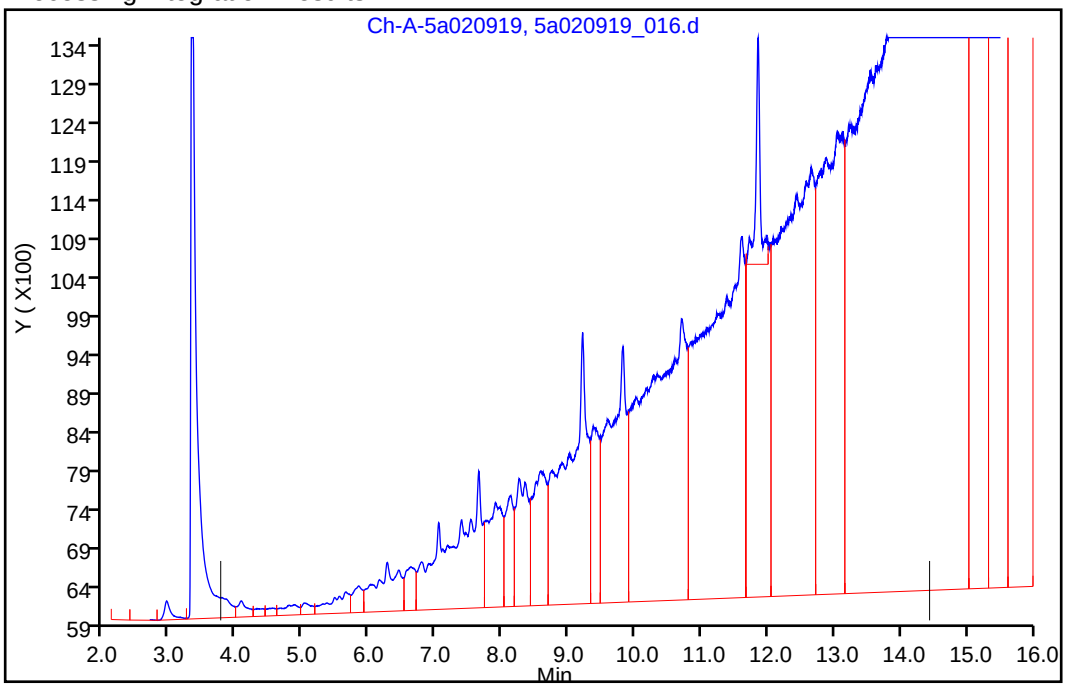
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Injection Date:	09-Feb-2019 17:51:27	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-12-E	Lab Sample ID:	720-91048-12		
Client ID:	DUP-124				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

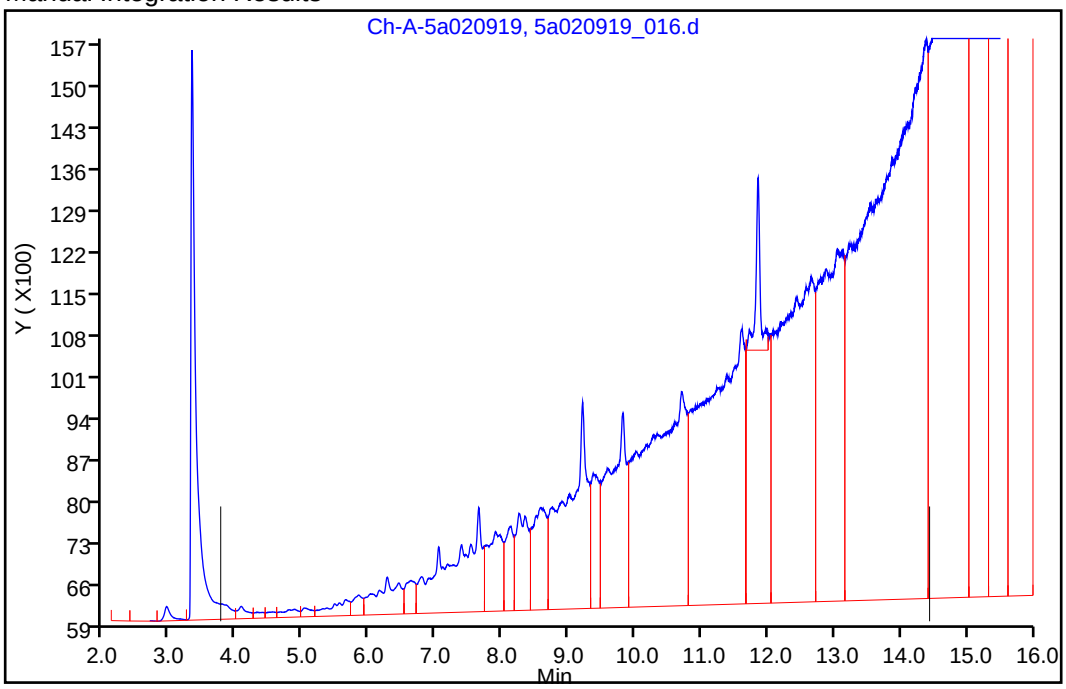
Processing Integration Results

RT: 9.09
Response: 5885697
Amount: 600.5192



Manual Integration Results

RT: 9.09
Response: 8687654
Amount: 886.4037



Reviewer: hayashid, 11-Feb-2019 12:03:59

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

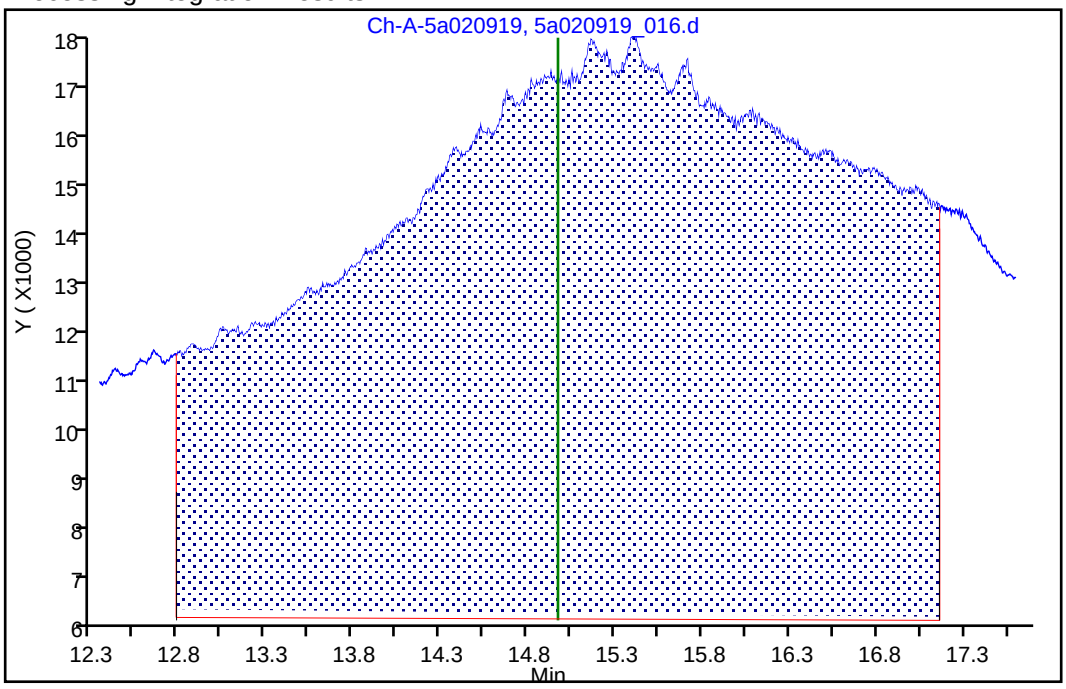
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_016.d				
Injection Date:	09-Feb-2019 17:51:27	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-12-E	Lab Sample ID:	720-91048-12		
Client ID:	DUP-124				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.973, CAS: STL00158

Signal: 1

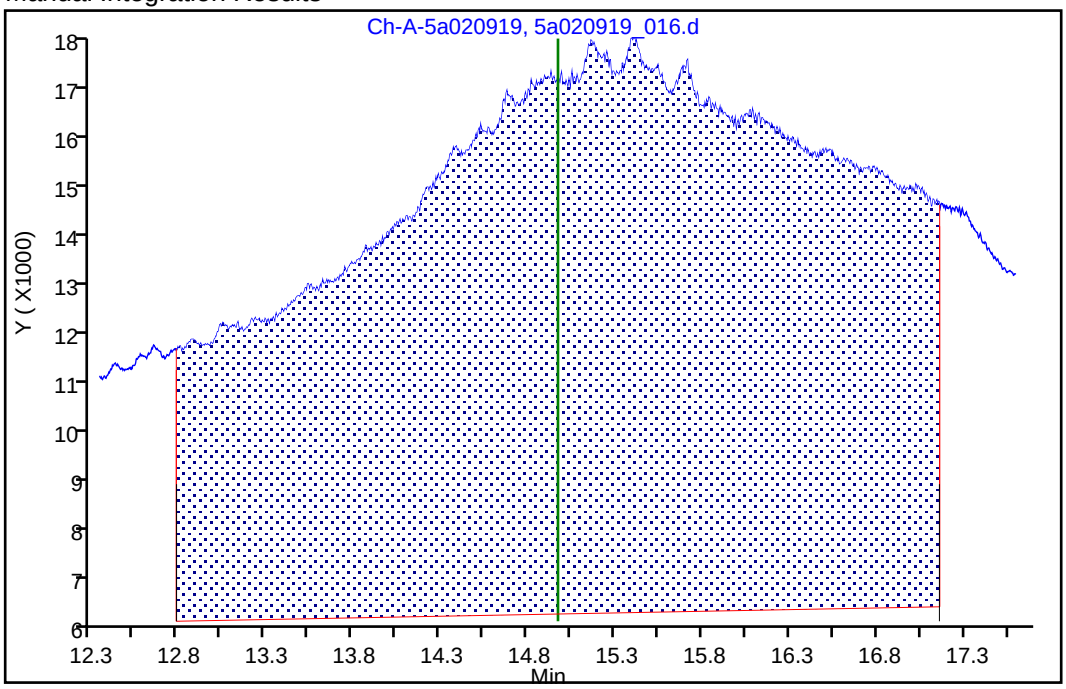
Processing Integration Results

RT: 14.97
Response: 11418642
Amount: 1874.3313



Manual Integration Results

RT: 14.97
Response: 11556059
Amount: 1896.8878



Reviewer: hayashid, 11-Feb-2019 12:04:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

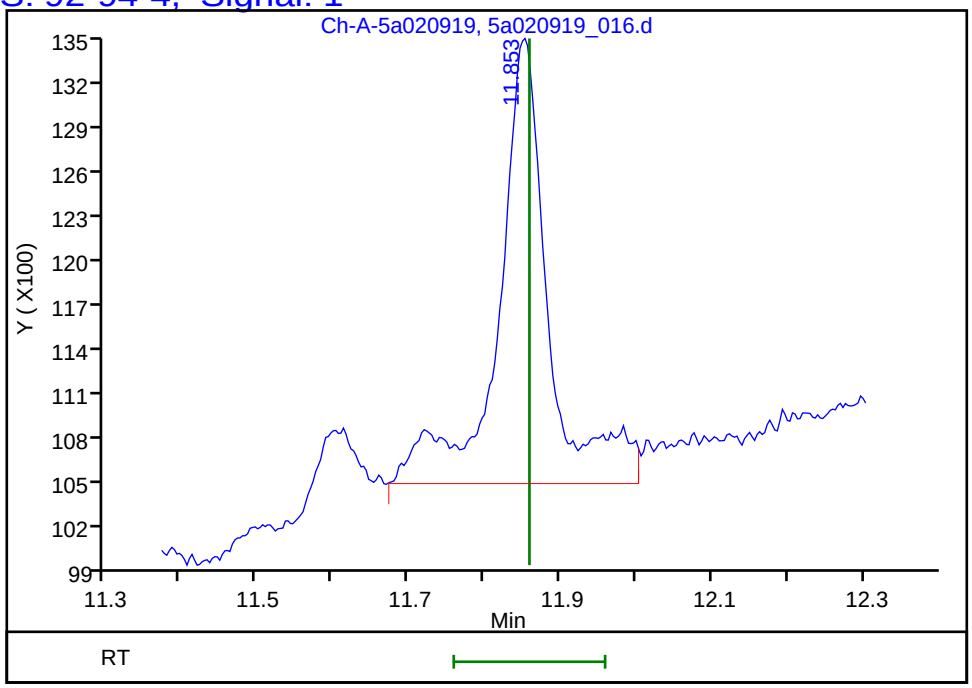
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_016.d

Injection Date:	09-Feb-2019 17:51:27	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-12-E	Lab Sample ID:	720-91048-12		
Client ID:	DUP-124				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.85
Response: 67245
Amount: 5.639035



Reviewer: hayashid, 11-Feb-2019 12:04:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_008.d
Lims ID: 720-91048-E-13-E
Client ID: DG-U15S-3.5-4
Sample Type: Client
Inject. Date: 08-Feb-2019 11:30:01 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056502-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:28:30 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 10:29:25

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.450	2.506	-0.056	1333	NC	
23 n-Decane	3.783	3.751	0.032	1650	NC	
A 1 C9-C13	4.490	(2.506-6.473)		20097	NC	
A 21 Stoddard Solvent	4.490	(2.506-6.473)		20097	NC	
A 57 C10-C12	4.711	(3.751-5.670)		6235	0.6362	
24 Dodecane	5.677	5.670	0.007	1872	NC	
A 3 C9 - C17	5.852	(2.506-9.198)		75624	6.24	
A 47 C9 - C18	6.149	(2.506-9.791)		88314	8.20	
A 60 C10-C16	6.156	(3.751-8.562)		59061	5.36	
A 15 Kerosene	6.417	(2.506-10.328)		169300	15.7	
A 25 C9-C19	6.417	(2.506-10.328)		169300	13.9	
26 C13	6.458	6.473	-0.015	5111	NC	
A 59 C12-C16	7.116	(5.670-8.562)		52826	5.39	
$ 27 n-Decanoic Acid (Surr)		7.139			ND	U
A 62 C10-C20	7.307	(3.751-10.864)		303288	30.9	
A 28 C9-C24	7.648	(2.506-12.791)		515019	52.5	
A 29 C9-C25	7.866	(2.506-13.226)		515019	52.5	
A 54 C10-C23	8.044	(3.751-12.338)		512766	52.3	
A 4 C10-C24	8.271	(3.751-12.791)		512766	52.3	
A 16 C10-C25	8.489	(3.751-13.226)		512766	52.3	
45 Hexadecane	8.537	8.562	-0.025	11097	NC	
A 14 C10-C26	8.699	(3.751-13.646)		919207	93.8	M
A 67 C12-C22	8.768	(5.670-11.867)		506531	51.7	
A 12 Unknown Hydrocarbons	9.097	(3.751-14.443)		1508676	NC	M
A 32 C10-C28	9.097	(3.751-14.443)		1508676	153.9	M
A 5 Diesel	9.097	(3.751-14.443)		1508676	153.9	M
A 30 C13-C22	9.170	(6.473-11.867)		500033	51.0	
44 Heptadecane	9.209	9.198	0.011	12690	NC	
A 31 C12-C24	9.230	(5.670-12.791)		506531	51.7	
49 n-Octadecane	9.812	9.791	0.021	38009	NC	
A 9 Crude Oil Range Organics (	9.836	(2.506-17.167)		4228901	NC	
A 52 Mineral oil	9.836	(2.506-17.167)		4228901	368.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		3762997	NC	M
33 C19	10.258	10.328	-0.070	42977	NC	
A 64 C13-C28	10.458	(6.473-14.443)		1495943	152.6	M
A 17 C10-C36	10.459	(3.751-17.167)		3760744	383.7	M
A 13 C9-C40	10.588	(2.506-18.671)		5290486	630.8	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		5290486	NC	
A 58 C16-C24	10.676	(8.562-12.791)		464802	47.4	
61 icosane	10.837	10.864	-0.027	75928	NC	
A 6 C10-C40	11.211	(3.751-18.671)		5287117	630.8	
$ 34 p-Terphenyl	11.853	11.859	-0.006	317607	26.6	M
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		5272261	629.4	
36 Tricosane		12.338			ND	
A 66 C13-C40	12.572	(6.473-18.671)		5256147	627.5	
37 n-Tetracosane		12.791			ND	
A 2 C16-C36 ORO	12.864	(8.562-17.167)		4121570	543.1	
38 C25	13.237	13.226	0.011	406441	NC	
A 19 C16-C40	13.616	(8.562-18.671)		5183155	618.8	
46 n-Hexacosane		13.646			ND	
A 20 C19-C36	13.747	(10.328-17.167)		3613067	418.7	
A 55 C23-C32	14.112	(12.338-15.887)		2325189	489.0	
39 n-Octacosane		14.443			ND	
65 C29	14.390	14.821	-0.431	589469	NC	M
A 7 Motor Oil	14.979	(12.791-17.167)		3078503	505.3	
A 40 C24-C36	14.979	(12.791-17.167)		3078503	505.3	
A 50 C25-C36	15.196	(13.226-17.167)		2922980	505.2	
A 10 C22-C40	15.269	(11.867-18.671)		4094394	489.8	
A 41 C23-C40	15.504	(12.338-18.671)		4198074	511.9	
A 8 C24-C40	15.731	(12.791-18.671)		4062516	510.7	
56 Dotriacontane	15.912	15.887	0.025	627716	NC	
A 51 C28-C40	16.557	(14.443-18.671)		3271968	519.0	
A 63 C29-C40	16.746	(14.821-18.671)		2985945	522.0	
42 n-Hexatriacontane		17.167			ND	
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

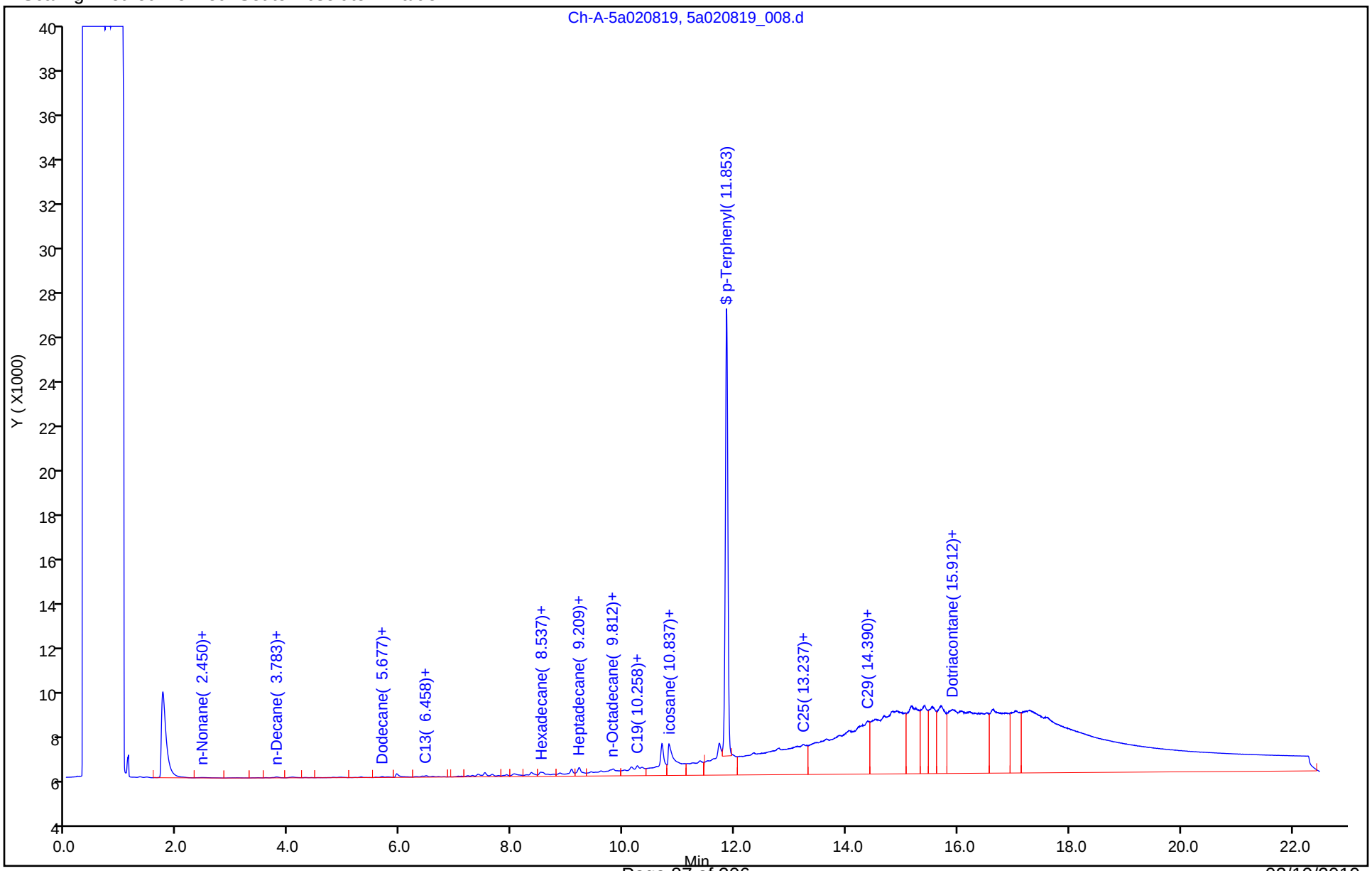
Report Date: 11-Feb-2019 10:29:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_008.d

Injection Date:	08-Feb-2019 11:30:01	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-13-E	Lab Sample ID:	720-91048-13	Worklist Smp#:	8
Client ID:	DG-U15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_008.d				
Lims ID:	720-91048-E-13-E				
Client ID:	DG-U15S-3.5-4				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 11:30:01	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056502-008				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Feb-2019 10:28:30	Calib Date:	08-Feb-2019 08:45:30		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0312				

First Level Reviewer: hayashid Date: 11-Feb-2019 10:29:25

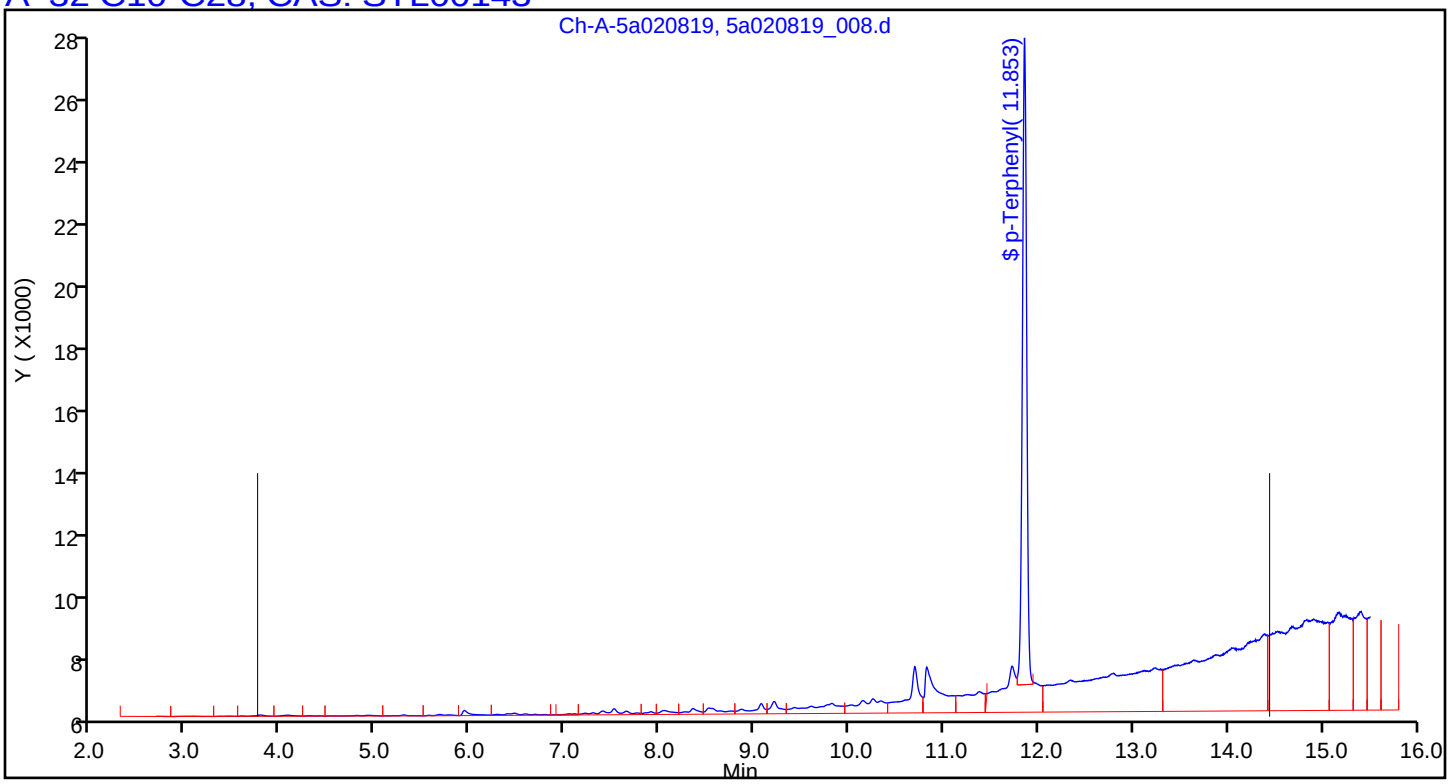
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.6	106.54

Report Date: 11-Feb-2019 10:29:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_008.d				
Injection Date:	08-Feb-2019 11:30:01	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-13-E	Lab Sample ID:	720-91048-13		
Client ID:	DG-U15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

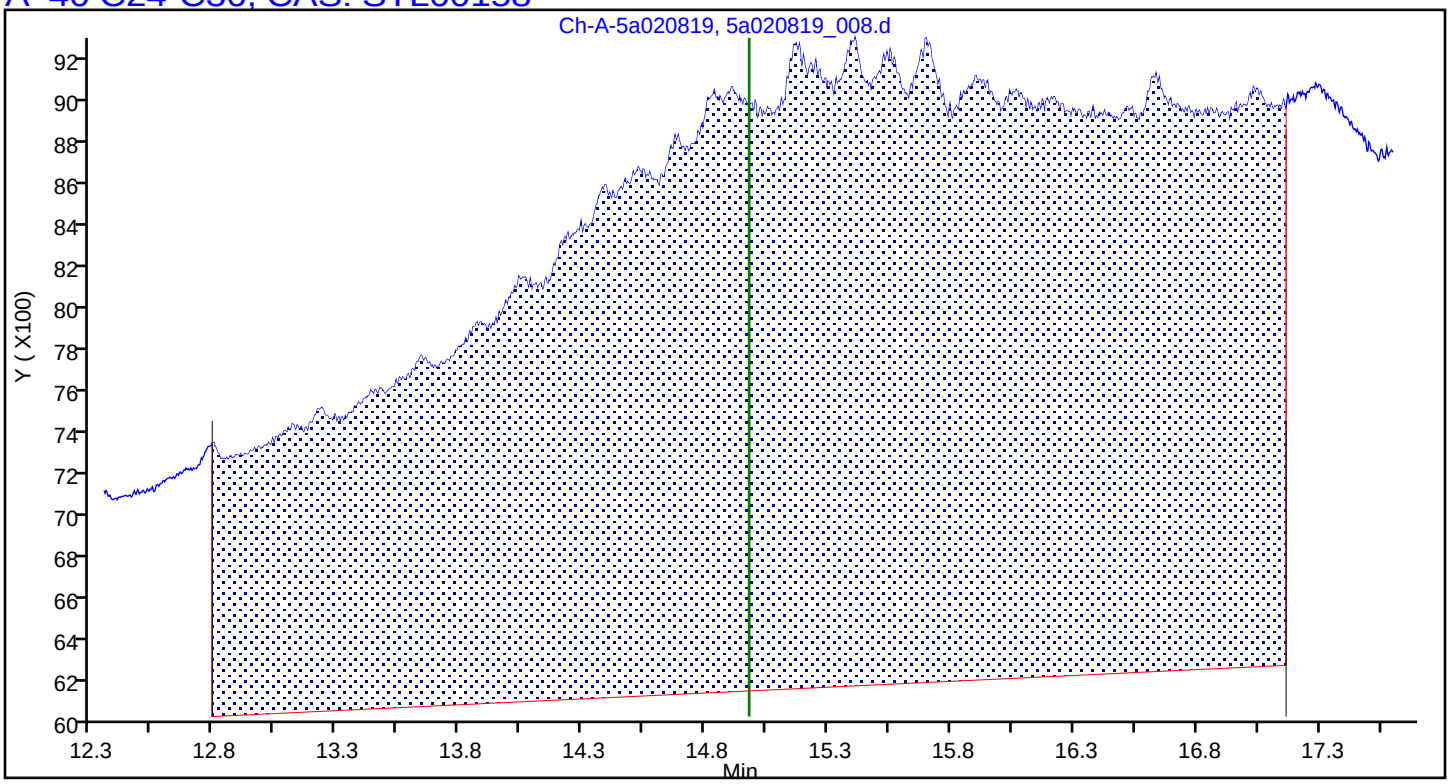


Report Date: 11-Feb-2019 10:29:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_008.d				
Injection Date:	08-Feb-2019 11:30:01	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-13-E	Lab Sample ID:	720-91048-13		
Client ID:	DG-U15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

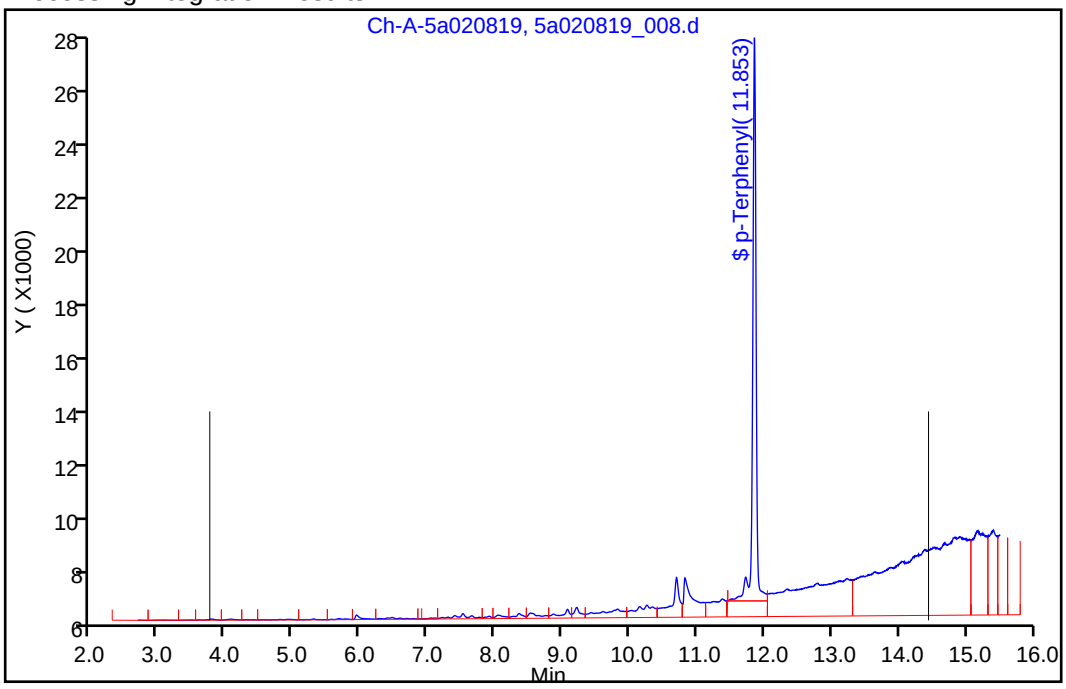
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_008.d				
Injection Date:	08-Feb-2019 11:30:01	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-13-E	Lab Sample ID:	720-91048-13		
Client ID:	DG-U15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

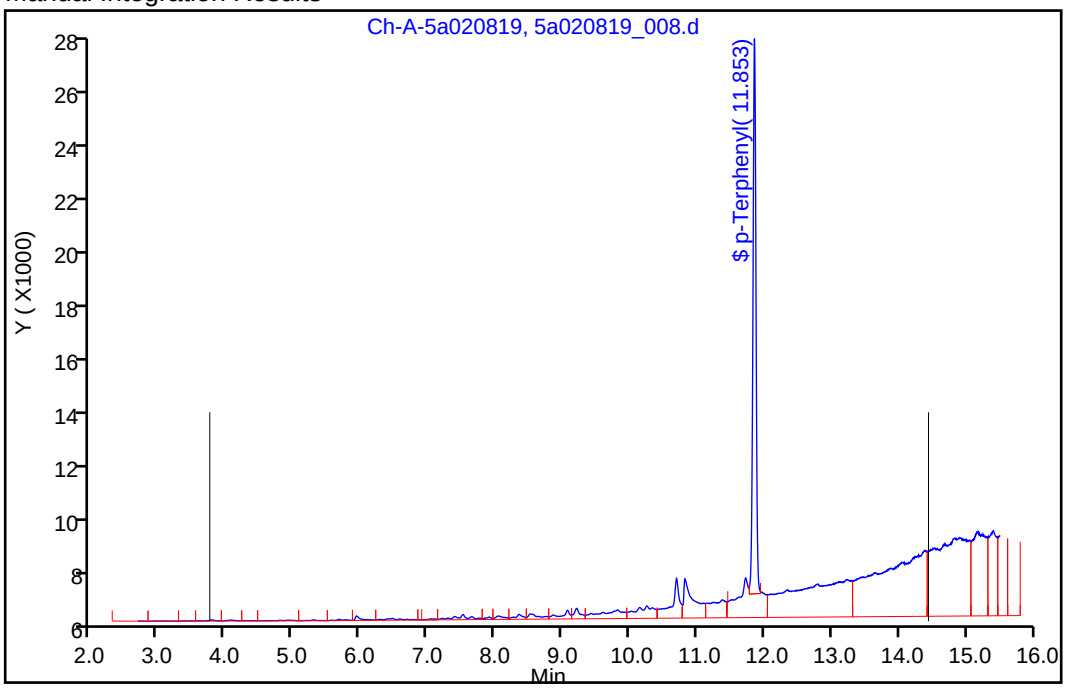
Processing Integration Results

RT: 9.10
Response: 868772
Amount: 88.641040



Manual Integration Results

RT: 9.10
Response: 1508676
Amount: 153.9306



Reviewer: luj, 08-Feb-2019 12:40:36

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

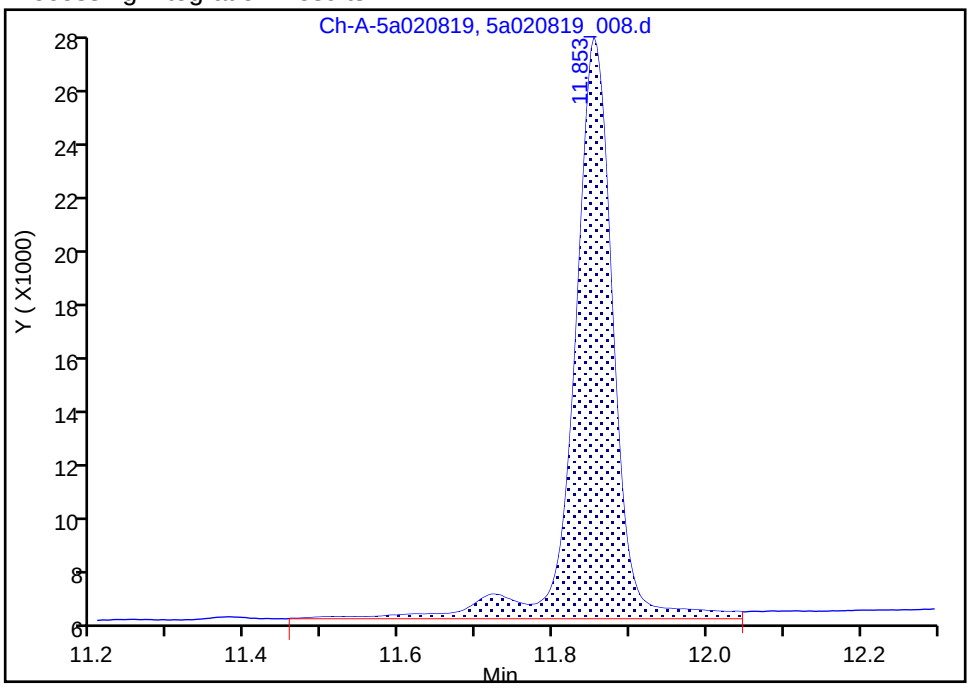
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_008.d				
Injection Date:	08-Feb-2019 11:30:01	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-13-E	Lab Sample ID:	720-91048-13		
Client ID:	DG-U15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

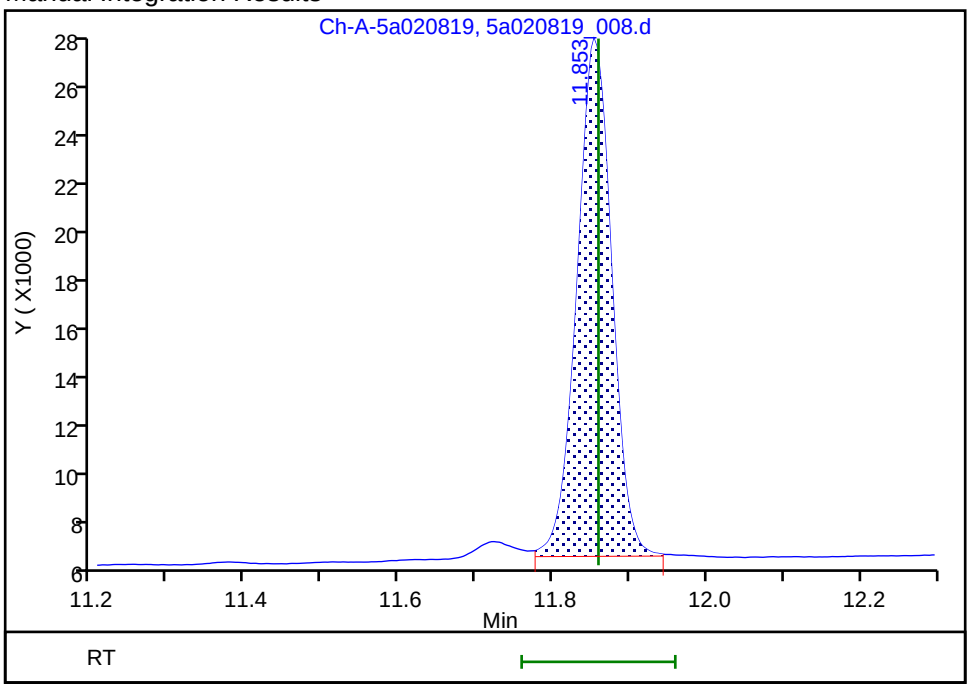
Processing Integration Results

RT: 11.85
Area: 366576
Amount: 30.740348
Amount Units: mg/L



Manual Integration Results

RT: 11.85
Area: 317607
Amount: 26.633904
Amount Units: mg/L



Reviewer: luj, 08-Feb-2019 12:40:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_017.d
Lims ID: 720-91048-E-14-E
Client ID: DG-U15S-8.5-9
Sample Type: Client
Inject. Date: 09-Feb-2019 18:20:54 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 007 Name: 720-0056518-017
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:04:59 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:04:59

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.508			ND	
	23 n-Decane	3.769	3.750	0.019	392	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		308068	NC	
A	1 C9-C13	4.489	(2.508-6.469)		308068	NC	
A	57 C10-C12	4.708	(3.750-5.666)		4966	0.5067	
	24 Dodecane		5.666			ND	
A	3 C9 - C17	5.850	(2.508-9.191)		3544357	292.4	
A	47 C9 - C18	6.145	(2.508-9.782)		4064470	377.6	
A	60 C10-C16	6.153	(3.750-8.556)		2272432	206.2	
A	25 C9-C19	6.415	(2.508-10.322)		4064470	333.0	
A	15 Kerosene	6.415	(2.508-10.322)		4064470	376.9	
	26 C13		6.469			ND	
A	59 C12-C16	7.111	(5.666-8.556)		2267466	231.4	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		7142967	728.8	
A	28 C9-C24	7.646	(2.508-12.785)		12101563	1234.7	
A	29 C9-C25	7.864	(2.508-13.221)		13945833	1422.9	
A	54 C10-C23	8.041	(3.750-12.332)		11227931	1145.6	
A	4 C10-C24	8.267	(3.750-12.785)		12101563	1234.7	
A	16 C10-C25	8.485	(3.750-13.221)		13945833	1422.9	
	45 Hexadecane		8.556			ND	
A	14 C10-C26	8.695	(3.750-13.641)		13945833	1422.9	
A	67 C12-C22	8.763	(5.666-11.861)		9502063	969.5	
A	5 Diesel	9.094	(3.750-14.438)		18032578	1839.9	
A	32 C10-C28	9.094	(3.750-14.438)		18032578	1839.9	
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		18032578	NC	
A	30 C13-C22	9.165	(6.469-11.861)		9502063	969.5	
	44 Heptadecane	9.111	9.191	-0.080	626158	NC	
A	31 C12-C24	9.226	(5.666-12.785)		12096597	1234.2	
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		27209469	NC	
A	52 Mineral oil	9.835	(2.508-17.162)		27993998	2437.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		27993998	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		18027612	1839.4	
A 17 C10-C36	10.456	(3.750-17.162)		27209469	2776.2	
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		30703659	NC	
A 13 C9-C40	10.586	(2.508-18.664)		30703659	3869.8	E
A 58 C16-C24	10.670	(8.556-12.785)		9829131	1002.9	
61 icosane	10.917	10.858	0.059	1106611	NC	
A 6 C10-C40	11.207	(3.750-18.664)		30701532	3869.3	E
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		30641371	3861.5	E
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		30360155	3825.9	E
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		25373457	3343.2	E
38 C25	13.125	13.221	-0.096	1844270	NC	
A 19 C16-C40	13.610	(8.556-18.664)		28083118	3537.7	E
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		19779223	2292.3	
A 55 C23-C32	14.107	(12.332-15.882)		12452466	2618.6	
39 n-Octacosane	14.537	14.438	0.099	740628	NC	
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		14406384	2364.8	M
A 7 Motor Oil	14.973	(12.785-17.162)		13512184	2218.0	
A 50 C25-C36	15.191	(13.221-17.162)		12339442	2132.8	
A 10 C22-C40	15.262	(11.861-18.664)		18201537	2177.2	
A 41 C23-C40	15.498	(12.332-18.664)		16947610	2066.5	
A 8 C24-C40	15.724	(12.785-18.664)		15762170	1981.4	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		10810520	2232.8	
A 63 C29-C40	16.740	(14.816-18.664)		9380383	2185.3	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

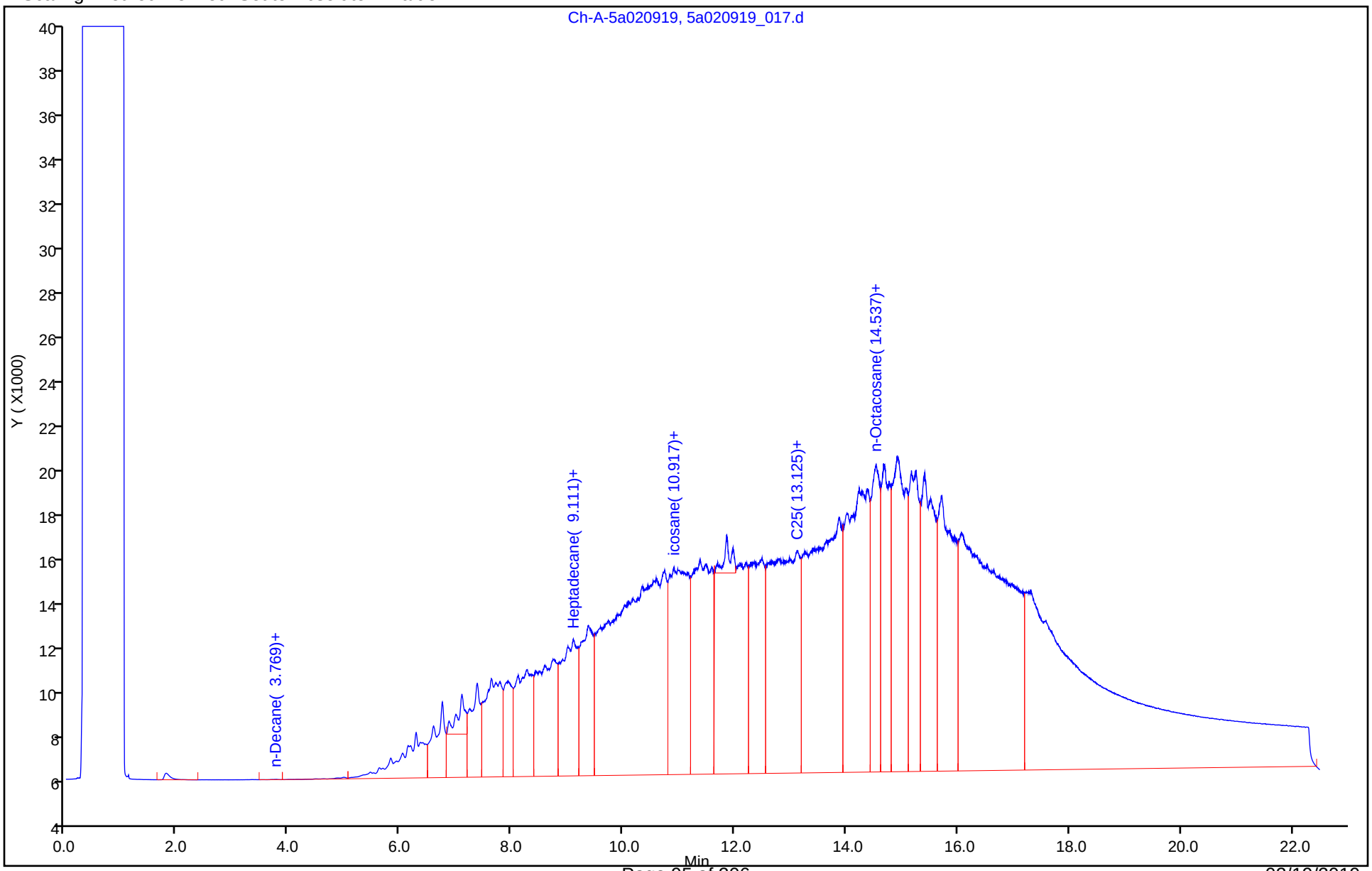
Report Date: 11-Feb-2019 12:04:59 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_017.d

Injection Date:	09-Feb-2019 18:20:54	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-14-E	Lab Sample ID:	720-91048-14	Worklist Smp#:	17
Client ID:	DG-U15S-8.5-9				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

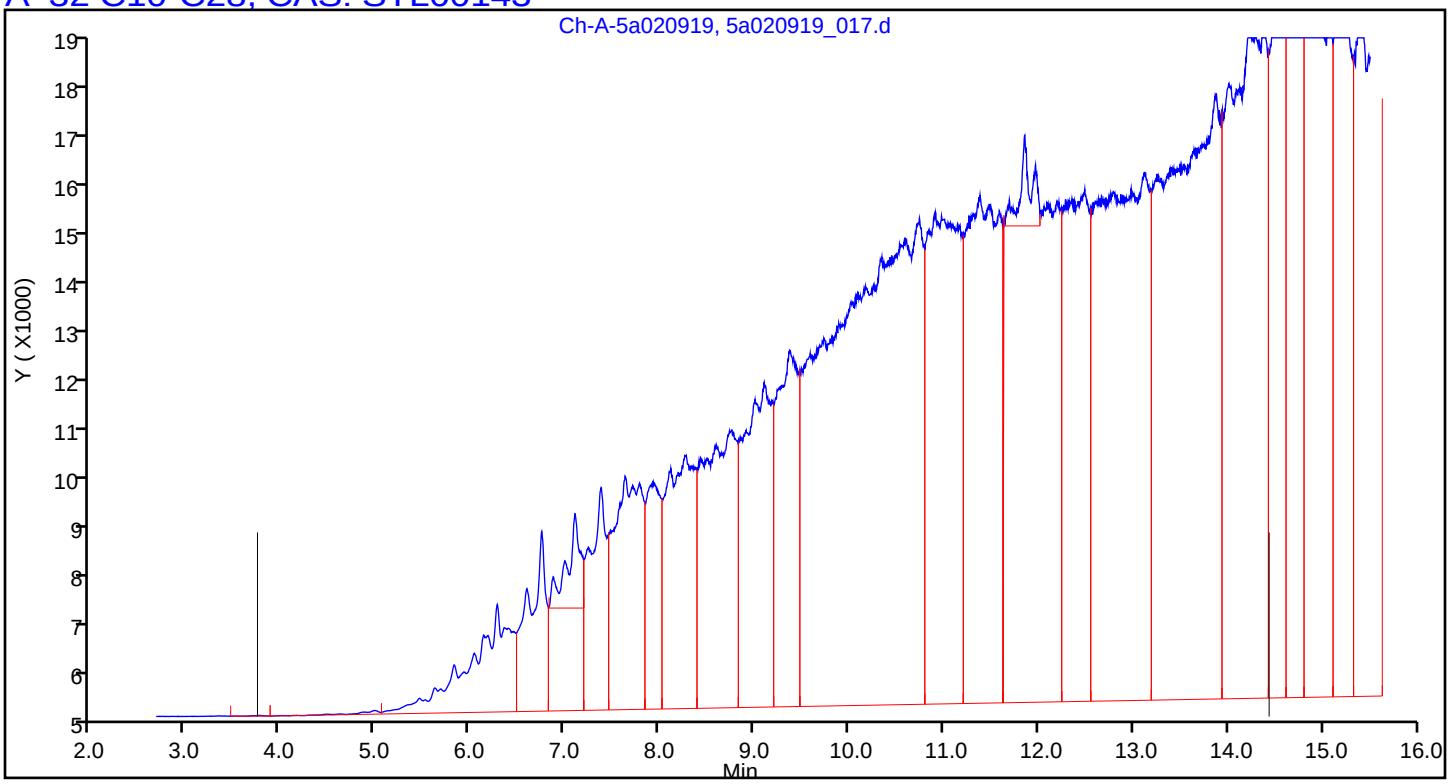


Report Date: 11-Feb-2019 12:05:00 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

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Injection Date:	09-Feb-2019 18:20:54	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-14-E	Lab Sample ID:	720-91048-14		
Client ID:	DG-U15S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

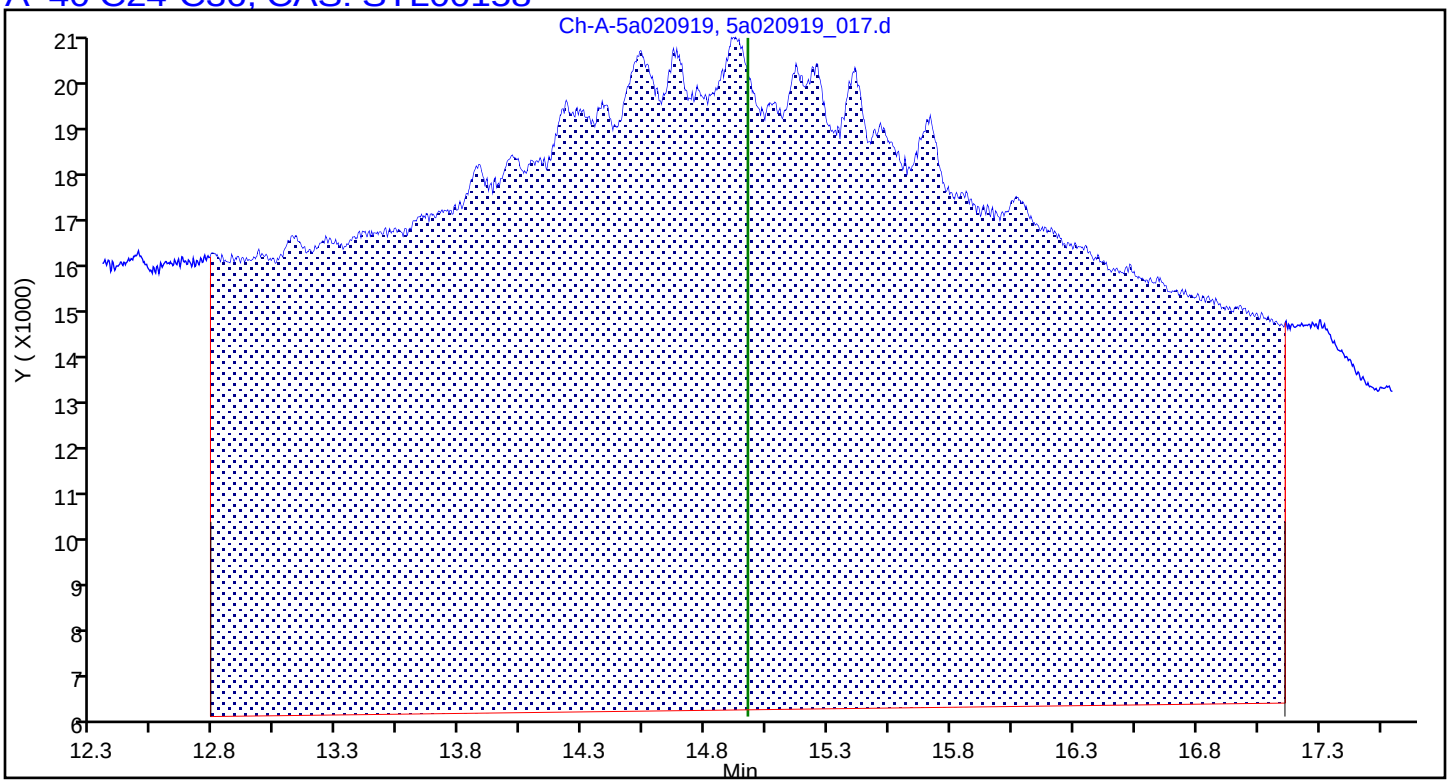


Report Date: 11-Feb-2019 12:05:01 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_017.d				
Injection Date:	09-Feb-2019 18:20:54	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-14-E	Lab Sample ID:	720-91048-14		
Client ID:	DG-U15S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

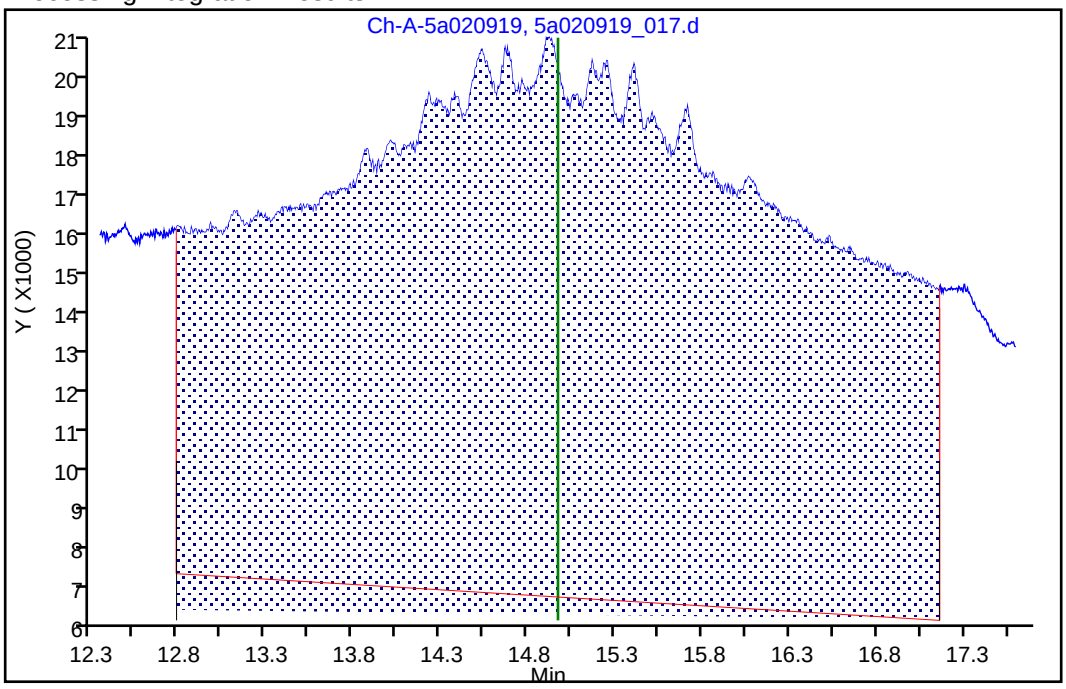
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Injection Date:	09-Feb-2019 18:20:54	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-14-E	Lab Sample ID:	720-91048-14		
Client ID:	DG-U15S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.973, CAS: STL00158

Signal: 1

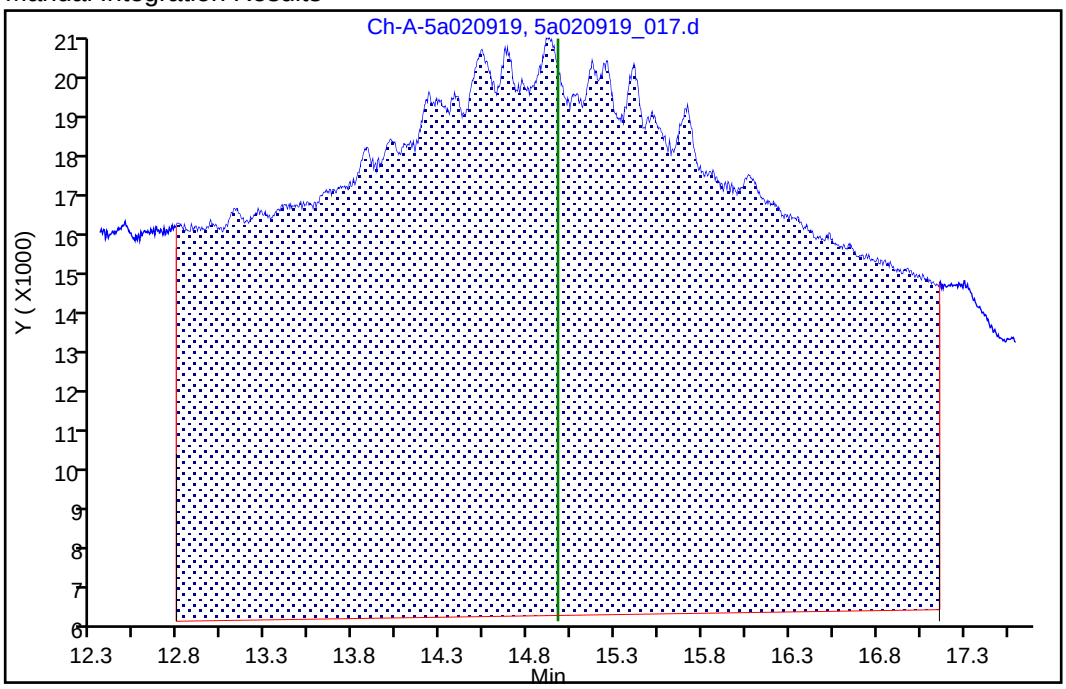
Processing Integration Results

RT: 14.97
Response: 13512184
Amount: 2217.9791



Manual Integration Results

RT: 14.97
Response: 14406384
Amount: 2364.7590



Reviewer: hayashid, 11-Feb-2019 12:04:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

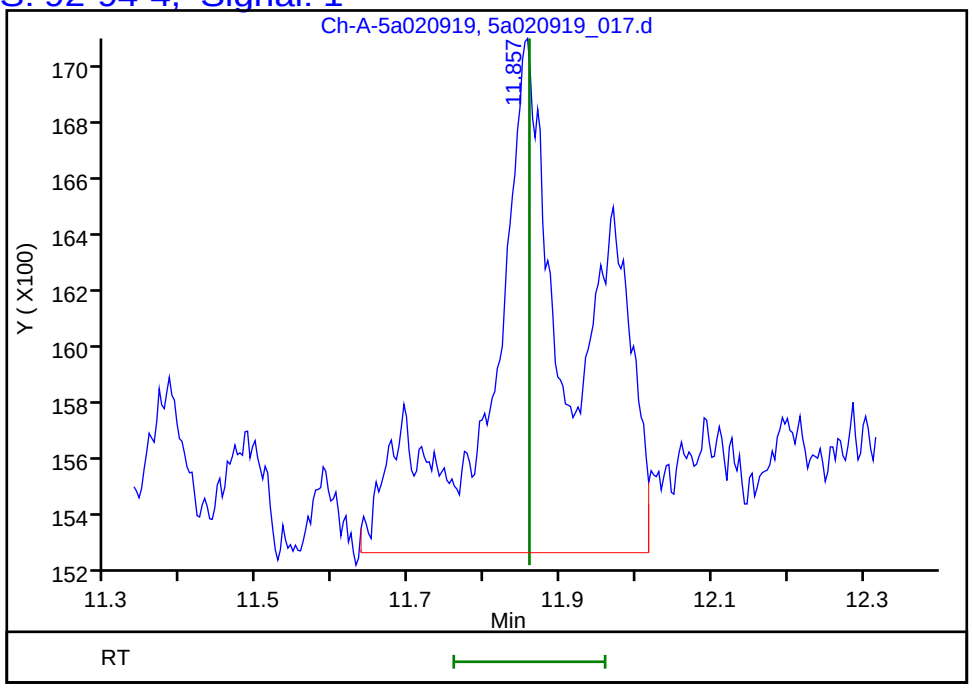
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_017.d

Injection Date:	09-Feb-2019 18:20:54	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-14-E	Lab Sample ID:	720-91048-14		
Client ID:	DG-U15S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 70562
Amount: 5.917192



Reviewer: hayashid, 11-Feb-2019 12:04:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_042.d
Lims ID: 720-91048-E-15-E
Client ID: DG-T17S-0.5-1
Sample Type: Client
Inject. Date: 08-Feb-2019 03:58:44 ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: #: 018 Name: 720-0056483-042
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\DRO5A.m
Limit Group: DRO
Last Update: 08-Feb-2019 12:33:44 Calib Date: 07-Feb-2019 08:44:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0330

First Level Reviewer: luj Date: 08-Feb-2019 12:33:44

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.424	2.506	-0.082	2819	NC	
	23 n-Decane	3.792	3.751	0.041	28454	NC	
A	1 C9-C13	4.490	(2.506-6.474)		113855	NC	
A	21 Stoddard Solvent	4.490	(2.506-6.474)		113855	NC	
A	57 C10-C12	4.711	(3.751-5.670)		72154	7.36	
	24 Dodecane	5.670	5.670	0.000	14142	NC	
A	3 C9 - C17	5.853	(2.506-9.199)		496500	41.0	
A	47 C9 - C18	6.149	(2.506-9.792)		629642	58.5	
A	60 C10-C16	6.157	(3.751-8.562)		396649	36.0	
A	15 Kerosene	6.417	(2.506-10.329)		644949	59.8	
A	25 C9-C19	6.417	(2.506-10.329)		644949	52.8	
	26 C13	6.458	6.474	-0.016	24141	NC	
A	59 C12-C16	7.116	(5.670-8.562)		338637	34.6	
$	27 n-Decanoic Acid (Surr)		7.139			ND	U
A	62 C10-C20	7.308	(3.751-10.865)		769597	78.5	
A	28 C9-C24	7.649	(2.506-12.792)		1182733	120.7	
A	29 C9-C25	7.867	(2.506-13.228)		1328084	135.5	
A	54 C10-C23	8.045	(3.751-12.339)		1057491	107.9	
A	4 C10-C24	8.271	(3.751-12.792)		1173462	119.7	
A	16 C10-C25	8.489	(3.751-13.228)		1318813	134.6	
	45 Hexadecane	8.512	8.562	-0.050	48920	NC	
A	14 C10-C26	8.699	(3.751-13.647)		1475984	150.6	
A	67 C12-C22	8.769	(5.670-11.868)		853707	87.1	
A	12 Unknown Hydrocarbons	9.097	(3.751-14.444)		1718137	NC	
A	32 C10-C28	9.097	(3.751-14.444)		1718137	175.3	
A	5 Diesel	9.097	(3.751-14.444)		1718137	175.3	
A	30 C13-C22	9.171	(6.474-11.868)		831276	84.8	
	44 Heptadecane	9.211	9.199	0.012	46635	NC	
A	31 C12-C24	9.231	(5.670-12.792)		1115450	113.8	
	49 n-Octadecane	9.768	9.792	-0.024	42606	NC	
A	9 Crude Oil Range Organics (	9.837	(2.506-17.168)		5087711	NC	
A	52 Mineral oil	9.837	(2.506-17.168)		5087711	442.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.837	(2.506-17.168)		4248730	NC	
33 C19	10.339	10.329	0.010	44038	NC	
A 64 C13-C28	10.459	(6.474-14.444)		1637694	167.1	
A 17 C10-C36	10.460	(3.751-17.168)		4239459	432.6	
A 13 C9-C40	10.590	(2.506-18.674)		6015511	723.2	
A 68 Crude Oil Range Organics (	10.590	(2.506-18.674)		6015511	NC	
A 58 C16-C24	10.677	(8.562-12.792)		825733	84.2	
61 icosane	10.859	10.865	-0.006	31160	NC	
A 6 C10-C40	11.212	(3.751-18.674)		6000482	721.7	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.868			ND	
A 18 C12-C40	12.172	(5.670-18.674)		5914258	711.2	
36 Tricosane	12.338	12.339	-0.001	81902	NC	
A 66 C13-C40	12.574	(6.474-18.674)		5868819	705.5	
37 n-Tetracosane	12.790	12.792	-0.002	58094	NC	
A 2 C16-C36 ORO	12.865	(8.562-17.168)		4571339	602.3	
38 C25	13.227	13.228	-0.001	145351	NC	
A 19 C16-C40	13.618	(8.562-18.674)		5499139	659.1	
46 n-Hexacosane	13.646	13.647	-0.001	157171	NC	
A 20 C19-C36	13.749	(10.329-17.168)		3536186	409.8	
A 55 C23-C32	14.113	(12.339-15.888)		2571218	540.7	
39 n-Octacosane	14.450	14.444	0.006	252633	NC	
65 C29	14.838	14.823	0.015	481601	NC	
A 7 Motor Oil	14.980	(12.792-17.168)		3128176	513.5	
A 40 C24-C36	14.980	(12.792-17.168)		3128176	513.5	
A 50 C25-C36	15.198	(13.228-17.168)		2993596	517.4	
A 10 C22-C40	15.271	(11.868-18.674)		4115634	492.3	
A 41 C23-C40	15.506	(12.339-18.674)		4022665	490.5	
A 8 C24-C40	15.733	(12.792-18.674)		3911205	491.7	
56 Dotriacontane	15.914	15.888	0.026	366592	NC	
A 51 C28-C40	16.559	(14.444-18.674)		3182610	503.3	
A 63 C29-C40	16.748	(14.823-18.674)		2882696	501.7	
42 n-Hexatriacontane	17.257	17.168	0.088	235488	NC	
43 C40		18.674			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

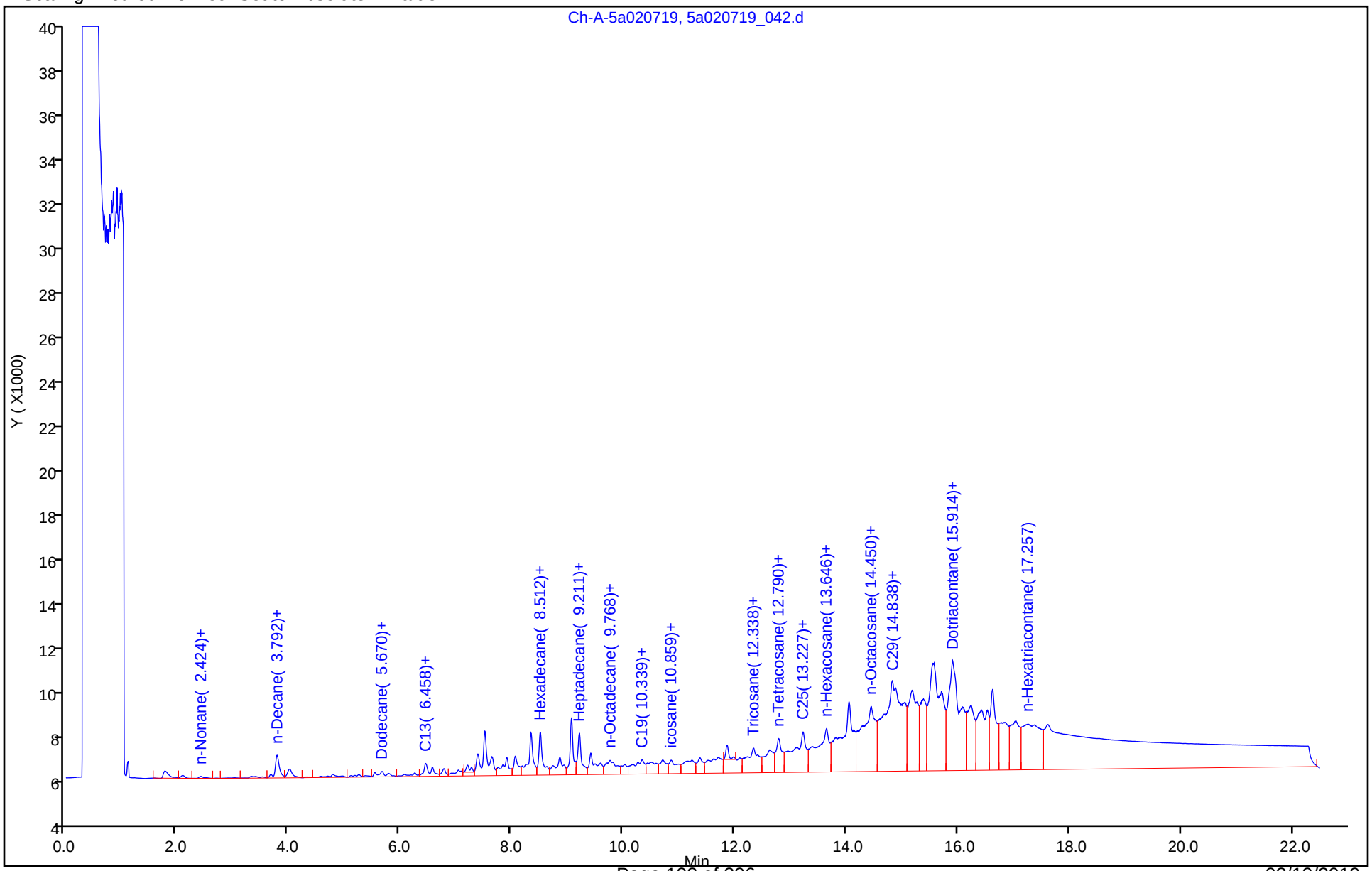
Report Date: 08-Feb-2019 12:33:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_042.d

Injection Date:	08-Feb-2019 03:58:44	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-15-E	Lab Sample ID:	720-91048-15	Worklist Smp#:	42
Client ID:	DG-T17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

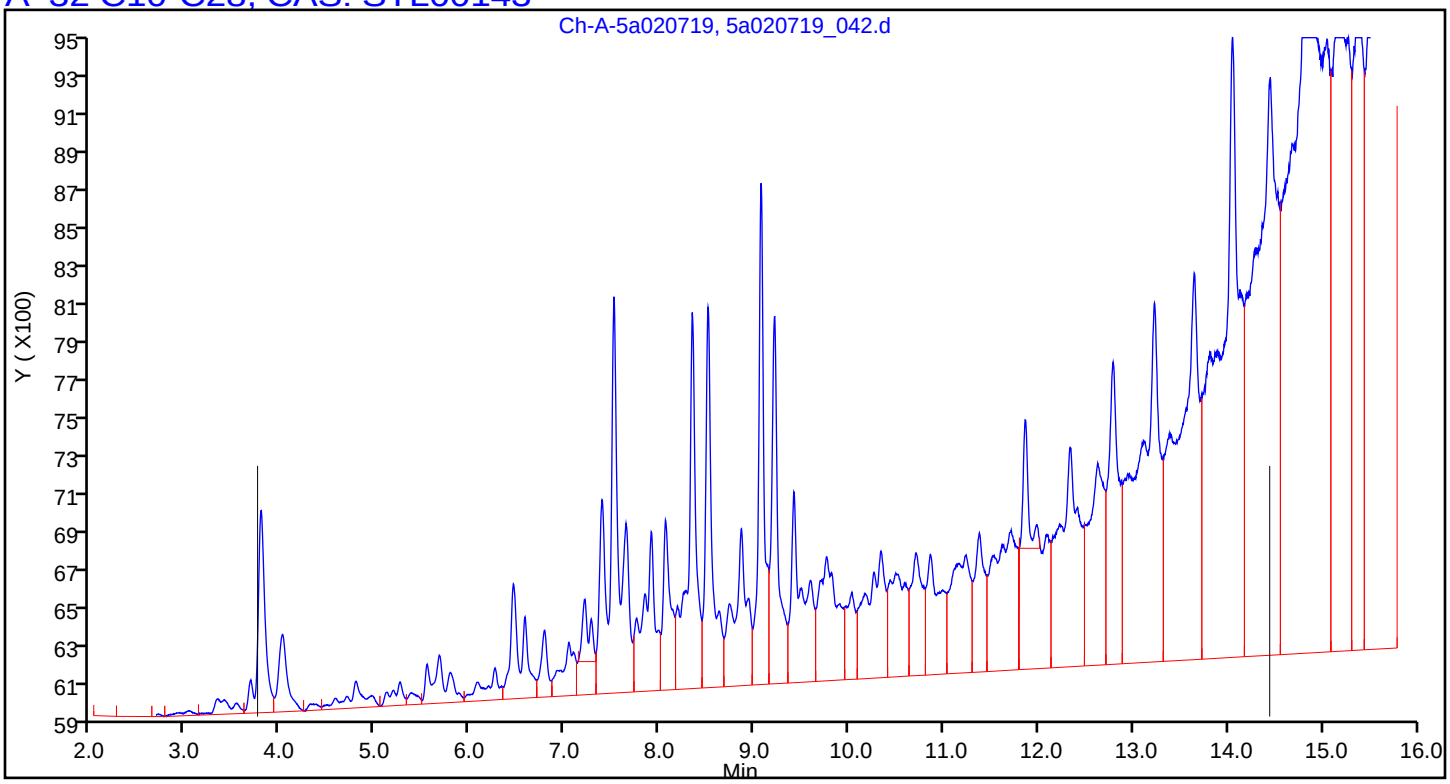


Report Date: 08-Feb-2019 12:33:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_042.d				
Injection Date:	08-Feb-2019 03:58:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-15-E	Lab Sample ID:	720-91048-15		
Client ID:	DG-T17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

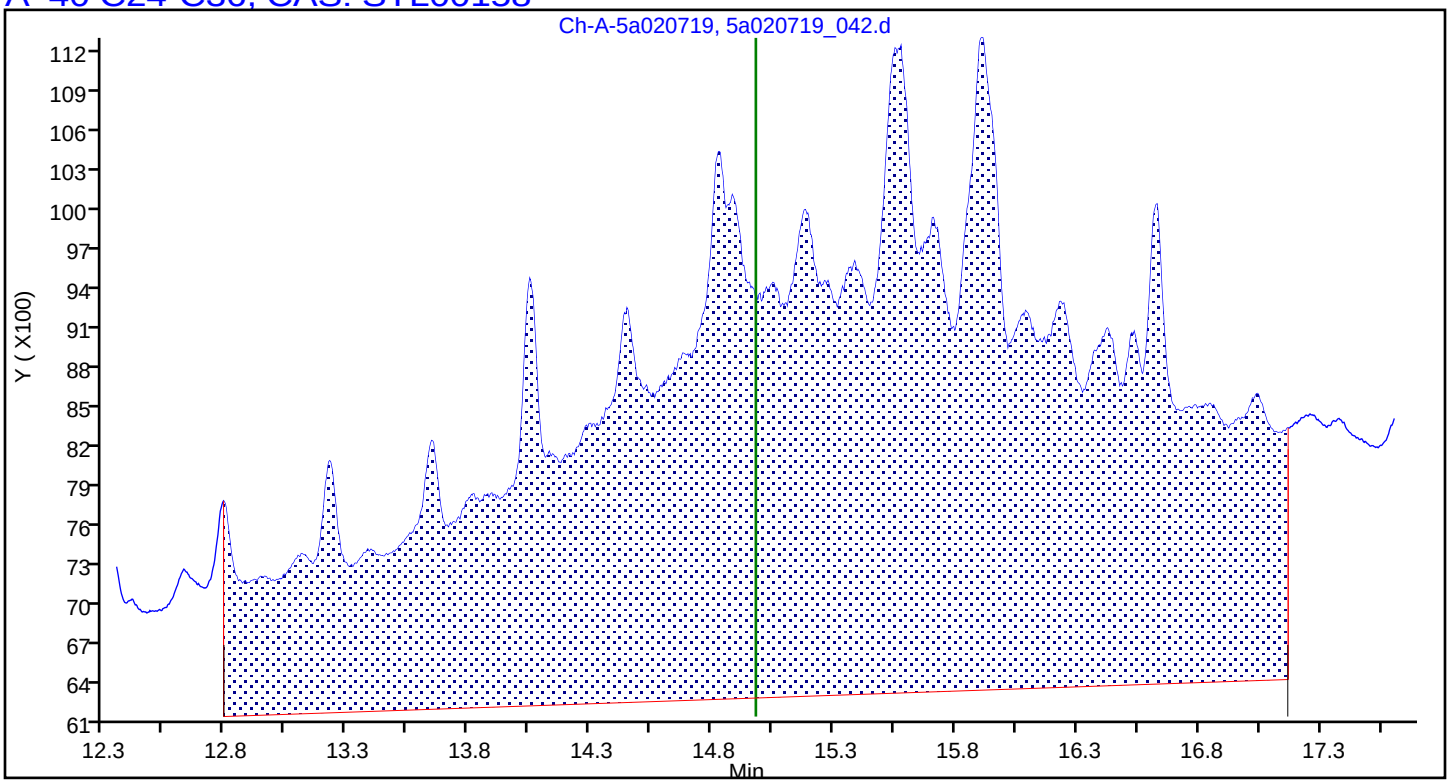


Report Date: 08-Feb-2019 12:33:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_042.d				
Injection Date:	08-Feb-2019 03:58:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-15-E	Lab Sample ID:	720-91048-15		
Client ID:	DG-T17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



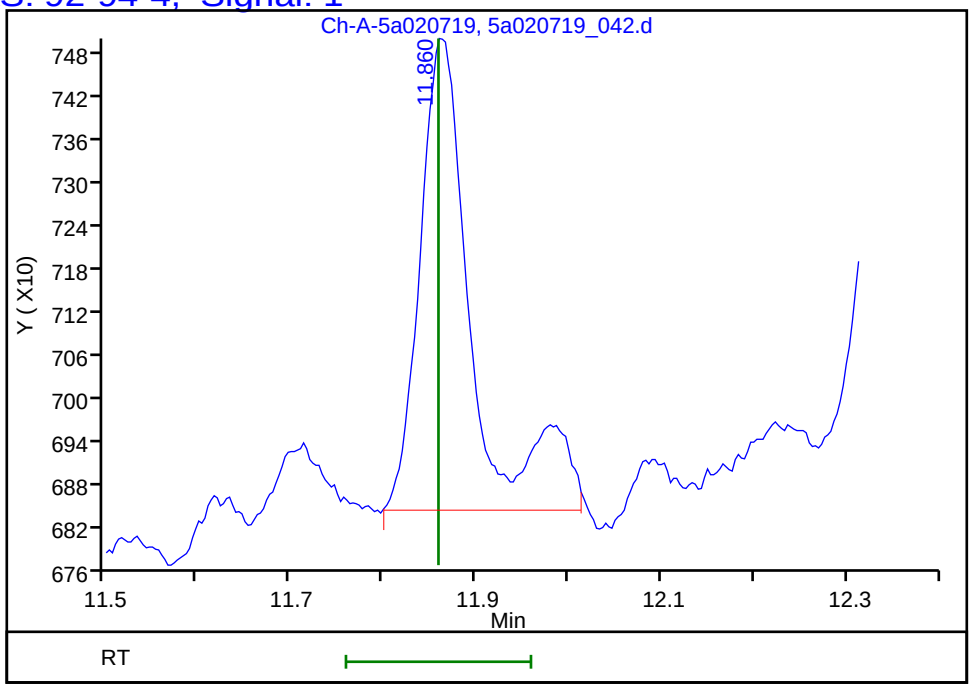
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_042.d				
Injection Date:	08-Feb-2019 03:58:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-15-E	Lab Sample ID:	720-91048-15		
Client ID:	DG-T17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 12787
Amount: 1.072293



Reviewer: luj, 08-Feb-2019 12:33:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_024.d
Lims ID: 720-91048-E-16-L
Client ID: DG-T17S-3.5-4
Sample Type: Client
Inject. Date: 05-Feb-2019 20:06:31 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 3.0000
Sample Info: #: 106 Name: 720-0056441-024
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\DRO5B.m
Limit Group: DRO
Last Update: 06-Feb-2019 11:20:25 Calib Date: 05-Feb-2019 09:42:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0327

First Level Reviewer: luj Date: 06-Feb-2019 11:20:25

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.699	2.643	0.057	388	NC	
	23 n-Decane	3.895	3.860	0.035	5903	NC	
A	21 Stoddard Solvent	4.598	(2.643-6.554)		21402	1.88	
A	1 C9-C13	4.598	(2.643-6.554)		21402	1.69	
A	57 C10-C12	4.807	(3.860-5.755)		12339	1.26	
	24 Dodecane	5.755	5.755	0.000	766	NC	
A	3 C9 - C17	5.951	(2.643-9.260)		88125	6.41	
A	47 C9 - C18	6.239	(2.643-9.835)		131384	11.7	
A	60 C10-C16	6.244	(3.860-8.628)		63739	5.26	
A	25 C9-C19	6.515	(2.643-10.387)		164454	11.9	
A	15 Kerosene	6.515	(2.643-10.387)		164454	14.6	
	26 C13	6.516	6.554	-0.038	1546	NC	
$	27 n-Decanoic Acid (Surr)		7.176			ND	U
A	59 C12-C16	7.192	(5.755-8.628)		51400	5.24	
A	62 C10-C20	7.390	(3.860-10.920)		224826	22.9	
A	28 C9-C24	7.740	(2.643-12.837)		769146	78.3	
A	29 C9-C25	7.957	(2.643-13.271)		898761	91.5	
A	54 C10-C23	8.123	(3.860-12.387)		614340	62.6	
A	4 C10-C24	8.348	(3.860-12.837)		764510	77.9	
A	16 C10-C25	8.565	(3.860-13.271)		894125	91.1	
	45 Hexadecane		8.628			ND	
A	14 C10-C26	8.774	(3.860-13.689)		961881	98.0	
A	67 C12-C22	8.836	(5.755-11.918)		396488	40.4	
A	12 Unknown Hydrocarbons	9.171	(3.860-14.482)		1476072	NC	
A	32 C10-C28	9.171	(3.860-14.482)		1476072	150.3	
A	5 Diesel	9.171	(3.860-14.482)		1476072	150.3	
A	30 C13-C22	9.236	(6.554-11.918)		393607	40.1	
	44 Heptadecane	9.276	9.260	0.016	10771	NC	
A	31 C12-C24	9.296	(5.755-12.837)		752171	76.6	
	49 n-Octadecane	9.832	9.835	-0.003	10592	NC	
A	11 Bunker Range Organics (C9-	9.918	(2.643-17.193)		3288821	NC	
A	9 Crude Oil Range Organics (	9.696	(2.643-16.750)		3903083	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.918	(2.643-17.193)		4228591	378.9	
33 C19	10.388	10.387	0.001	10703	NC	
A 64 C13-C28	10.518	(6.554-14.482)		1460852	148.8	
A 17 C10-C36	10.305	(3.860-16.750)		3284185	334.5	
A 68 Crude Oil Range Organics (	10.672	(2.643-18.702)		5183352	NC	
A 13 C9-C40	10.672	(2.643-18.702)		5183352	635.0	
A 58 C16-C24	10.733	(8.628-12.837)		708954	72.2	
61 icosane		10.920			ND	
A 6 C10-C40	11.281	(3.860-18.702)		5176592	634.4	
$ 34 p-Terphenyl	11.887	11.890	-0.003	86862	7.56	
35 n-Docosane	12.016	11.918	0.098	28805	NC	
A 18 C12-C40	12.228	(5.755-18.702)		5151739	631.6	
36 Tricosane	12.385	12.387	-0.002	56155	NC	
A 66 C13-C40	12.628	(6.554-18.702)		4904482	602.2	
37 n-Tetracosane	12.833	12.837	-0.004	57888	NC	
A 2 C16-C36 ORO	12.911	(8.628-17.193)		3393414	475.7	
38 C25	13.274	13.271	0.003	67756	NC	
A 19 C16-C40	13.665	(8.628-18.702)		5042345	618.9	
46 n-Hexacosane	13.690	13.689	0.001	184272	NC	
A 20 C19-C36	13.790	(10.387-17.193)		2729330	350.0	
A 55 C23-C32	14.153	(12.387-15.919)		2212077	538.5	
39 n-Octacosane		14.482			ND	
65 C29	14.862	14.859	0.003	116752	NC	
A 7 Motor Oil	15.015	(12.837-17.193)		2917634	511.1	
A 40 C24-C36	15.015	(12.837-17.193)		2917634	511.1	
A 50 C25-C36	15.232	(13.271-17.193)		2736830	508.6	
A 10 C22-C40	15.310	(11.918-18.702)		3997406	504.6	
A 41 C23-C40	15.544	(12.387-18.702)		3938581	509.4	
A 8 C24-C40	15.769	(12.837-18.702)		3777927	506.5	
56 Dotriacontane	15.924	15.919	0.005	143225	NC	
A 51 C28-C40	16.592	(14.482-18.702)		2901009	567.2	
A 63 C29-C40	16.780	(14.859-18.702)		2598061	568.9	
42 n-Hexatriacontane		17.193			ND	
43 C40		18.702			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

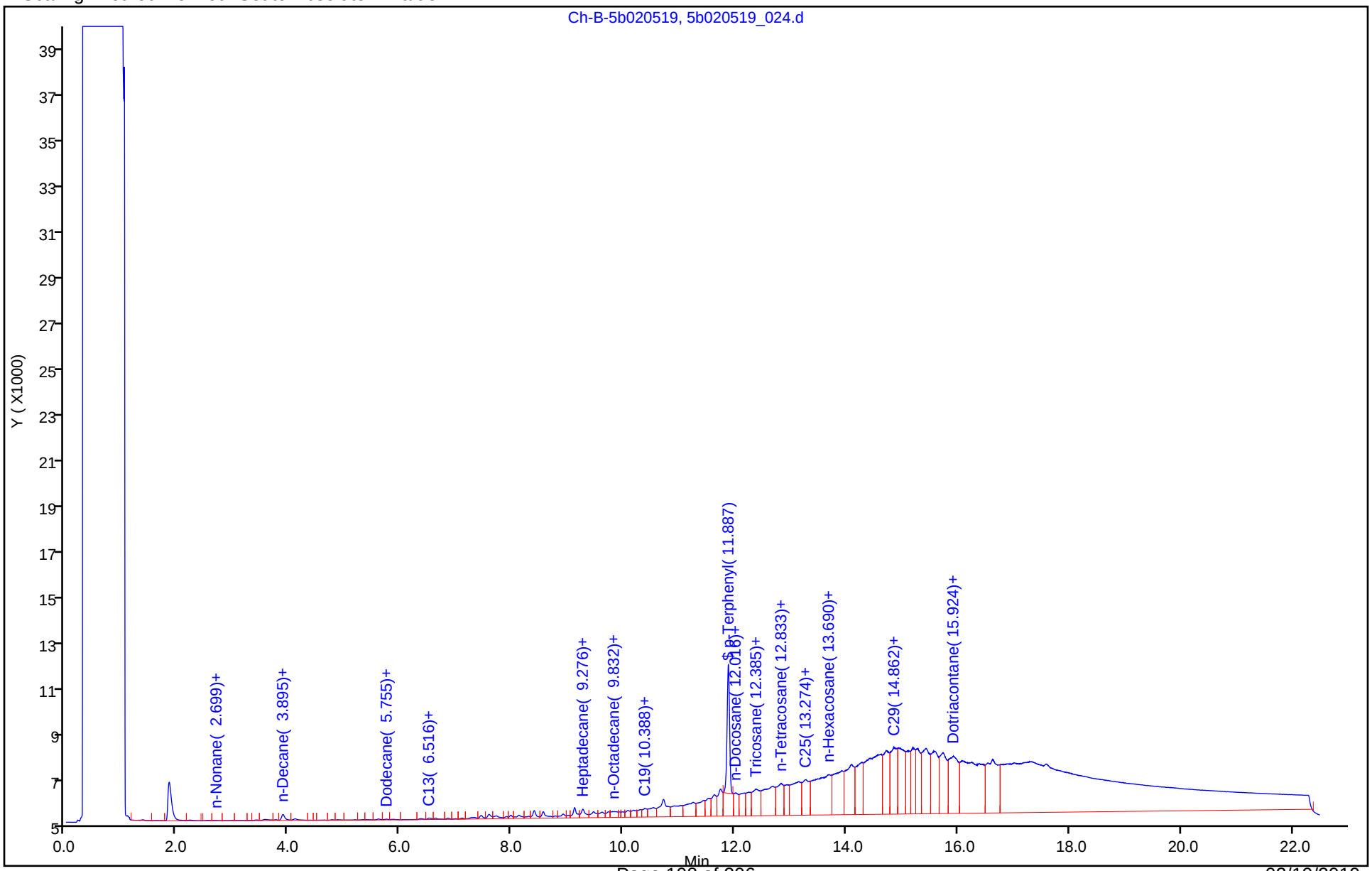
U - Marked Undetected

Report Date: 06-Feb-2019 11:20:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_024.d				
Injection Date:	05-Feb-2019 20:06:31	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-16-L	Lab Sample ID:	720-91048-16	Worklist Smp#:	24
Client ID:	DG-T17S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	3.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_024.d				
Lims ID:	720-91048-E-16-L				
Client ID:	DG-T17S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 20:06:31	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Sample Info:	#: 106 Name: 720-0056441-024				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	06-Feb-2019 11:20:25	Calib Date:	05-Feb-2019 09:42:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0327				

First Level Reviewer: luj Date: 06-Feb-2019 11:20:25

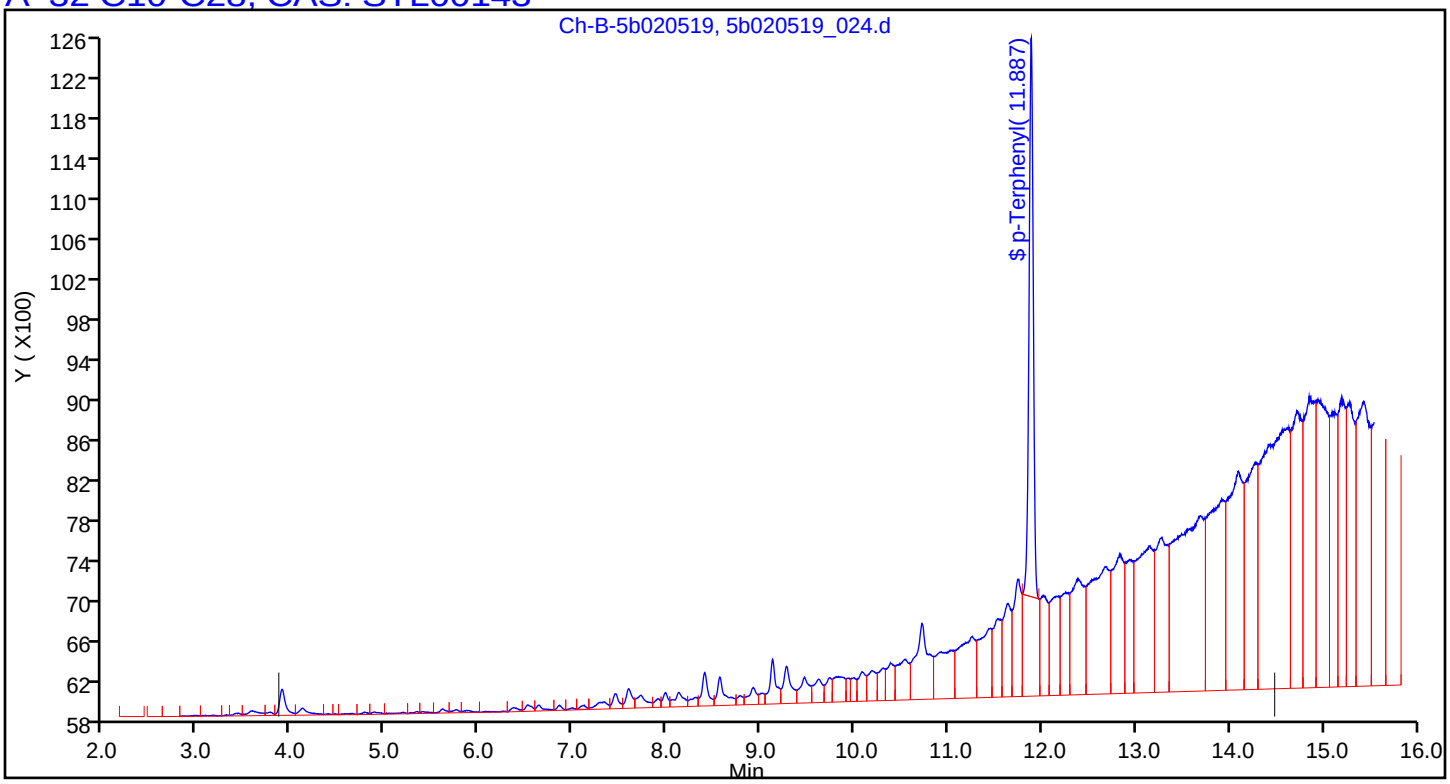
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	7.56	90.75

Report Date: 06-Feb-2019 11:20:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_024.d				
Injection Date:	05-Feb-2019 20:06:31	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-16-L	Lab Sample ID:	720-91048-16		
Client ID:	DG-T17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

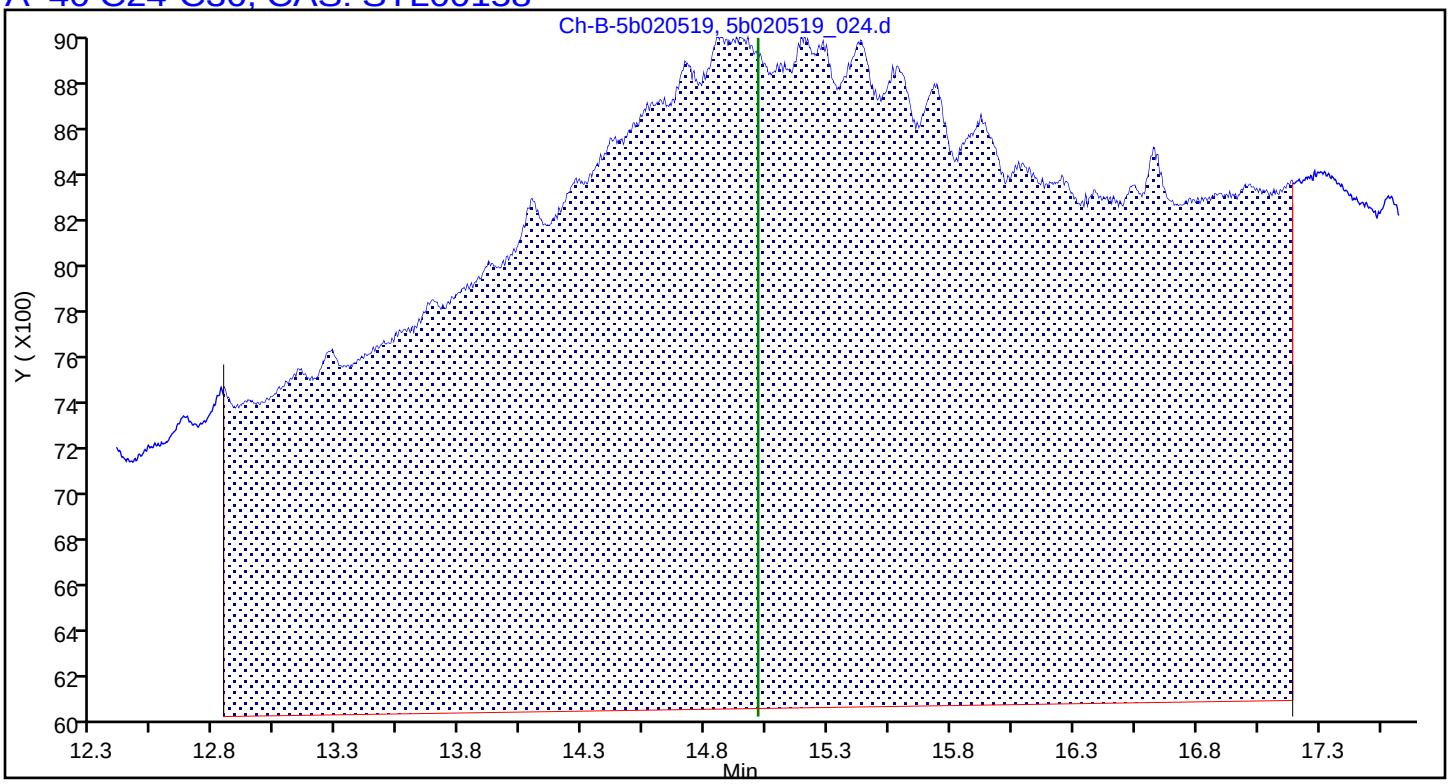


Report Date: 06-Feb-2019 11:20:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56441.b\5b020519_024.d				
Injection Date:	05-Feb-2019 20:06:31	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-16-L	Lab Sample ID:	720-91048-16		
Client ID:	DG-T17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	3.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_019.d
Lims ID: 720-91048-E-17-E
Client ID: DG-T17S-7-7.5
Sample Type: Client
Inject. Date: 09-Feb-2019 19:19:49 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 007 Name: 720-0056518-019
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:05:44 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:06:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.508			ND	
23 n-Decane		3.750			ND	
A 21 Stoddard Solvent	4.489	(2.508-6.469)		280636	NC	
A 1 C9-C13	4.489	(2.508-6.469)		280636	NC	
A 57 C10-C12	4.708	(3.750-5.666)		207656	21.2	
24 Dodecane	5.616	5.666	-0.050	60525	NC	
A 3 C9 - C17	5.850	(2.508-9.191)		667827	55.1	
A 47 C9 - C18	6.145	(2.508-9.782)		1031060	95.8	
A 60 C10-C16	6.153	(3.750-8.556)		598511	54.3	
A 25 C9-C19	6.415	(2.508-10.322)		1094405	89.7	
A 15 Kerosene	6.415	(2.508-10.322)		1094405	101.5	
26 C13		6.469			ND	
A 59 C12-C16	7.111	(5.666-8.556)		451380	46.1	
$ 27 n-Decanoic Acid (Surr)		7.131			ND	
A 62 C10-C20	7.304	(3.750-10.858)		1875157	191.3	
A 28 C9-C24	7.646	(2.508-12.785)		5383852	549.3	
A 29 C9-C25	7.864	(2.508-13.221)		6017233	613.9	
A 54 C10-C23	8.041	(3.750-12.332)		5013486	511.5	
A 4 C10-C24	8.267	(3.750-12.785)		5346257	545.5	
A 16 C10-C25	8.485	(3.750-13.221)		5979638	610.1	
45 Hexadecane		8.556			ND	
A 14 C10-C26	8.695	(3.750-13.641)		6644344	677.9	
A 67 C12-C22	8.763	(5.666-11.861)		4436186	452.6	
A 5 Diesel	9.094	(3.750-14.438)		7069297	721.3	
A 32 C10-C28	9.094	(3.750-14.438)		7069297	721.3	
A 12 Unknown Hydrocarbons	9.094	(3.750-14.438)		7069297	NC	
A 30 C13-C22	9.165	(6.469-11.861)		4340276	442.8	
44 Heptadecane		9.191			ND	
A 31 C12-C24	9.226	(5.666-12.785)		5199126	530.5	
49 n-Octadecane	9.769	9.782	-0.013	125686	NC	
A 11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		9690795	NC	
A 52 Mineral oil	9.835	(2.508-17.162)		10544750	918.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		10544750	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		6826256	696.5	
A 17 C10-C36	10.456	(3.750-17.162)		9653200	984.9	
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		12527070	NC	
A 13 C9-C40	10.586	(2.508-18.664)		12527070	1553.2	
A 58 C16-C24	10.670	(8.556-12.785)		4869233	496.8	
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		12496260	1549.5	
$ 34 p-Terphenyl		11.859			ND	
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		12281980	1522.5	
36 Tricosane	12.305	12.332	-0.027	159329	NC	
A 66 C13-C40	12.567	(6.469-18.664)		12196828	1511.8	
37 n-Tetracosane	12.838	12.785	0.053	273530	NC	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		9799613	1291.2	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		11781933	1459.9	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		8352185	968.0	
A 55 C23-C32	14.107	(12.332-15.882)		3493458	734.6	
39 n-Octacosane	14.361	14.438	-0.077	424953	NC	
65 C29	14.817	14.816	0.001	278384	NC	
A 40 C24-C36	14.973	(12.785-17.162)		4217653	692.3	
A 7 Motor Oil	14.973	(12.785-17.162)		4217653	692.3	
A 50 C25-C36	15.191	(13.221-17.162)		3739735	646.4	
A 10 C22-C40	15.262	(11.861-18.664)		6880665	823.0	
A 41 C23-C40	15.498	(12.332-18.664)		6442801	785.6	
A 8 C24-C40	15.724	(12.785-18.664)		6031673	758.2	
56 Dotriacontane	15.848	15.882	-0.034	195318	NC	
A 51 C28-C40	16.551	(14.438-18.664)		4562880	753.6	
A 63 C29-C40	16.740	(14.816-18.664)		4261834	783.0	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

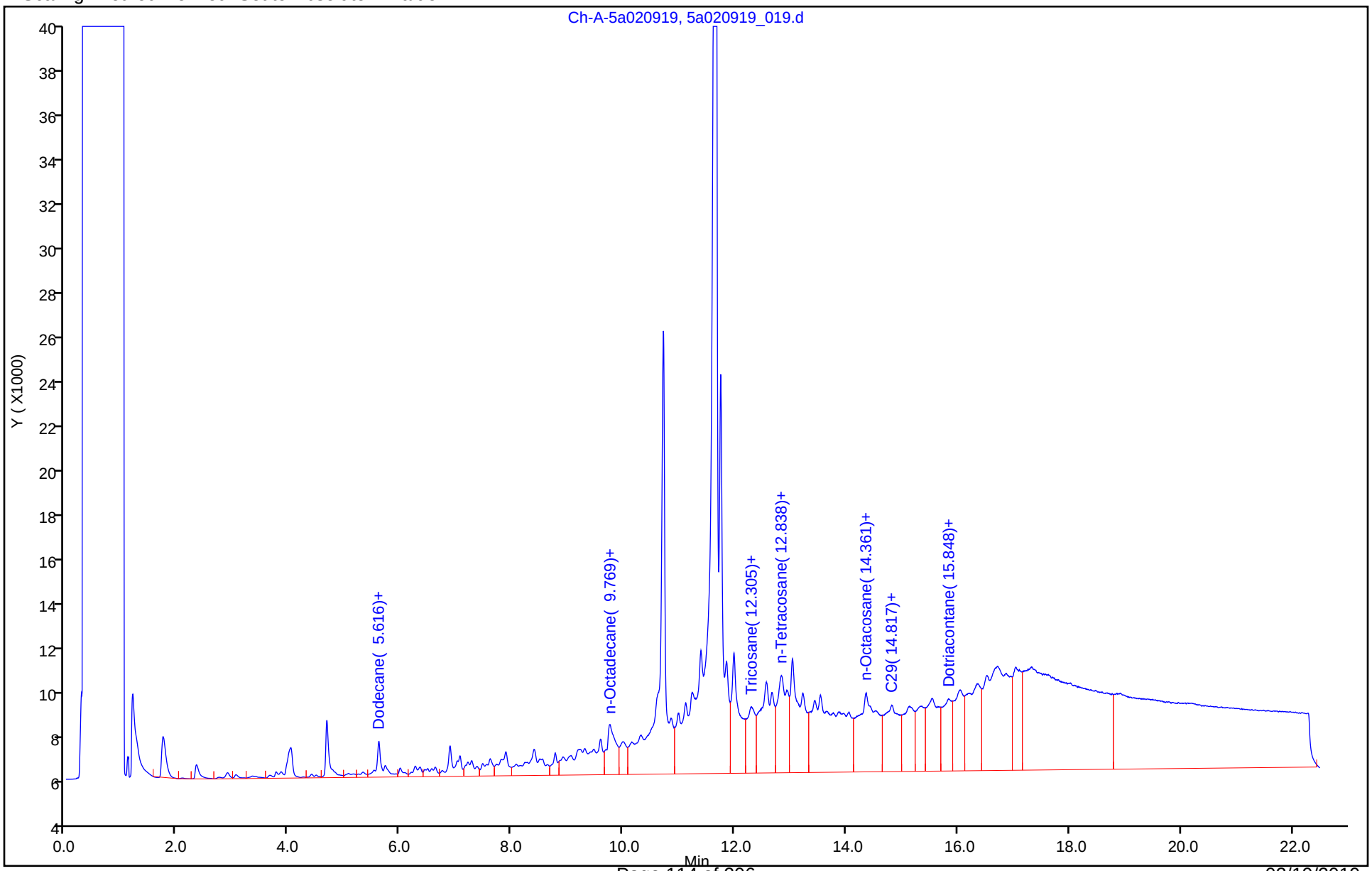
Report Date: 11-Feb-2019 12:06:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_019.d

Injection Date:	09-Feb-2019 19:19:49	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-17-E	Lab Sample ID:	720-91048-17	Worklist Smp#:	19
Client ID:	DG-T17S-7-7.5				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

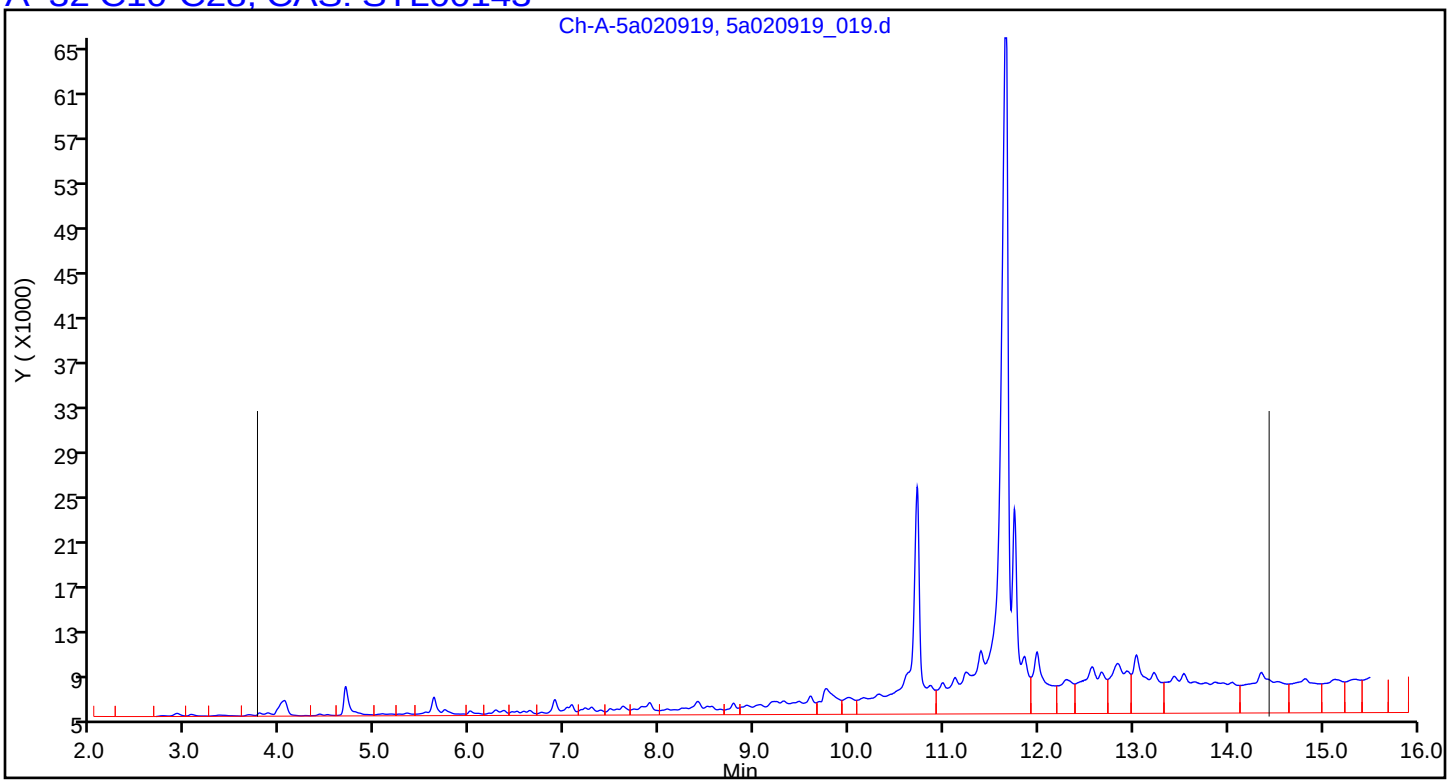


Report Date: 11-Feb-2019 12:06:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_019.d				
Injection Date:	09-Feb-2019 19:19:49	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-17-E	Lab Sample ID:	720-91048-17		
Client ID:	DG-T17S-7-7.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

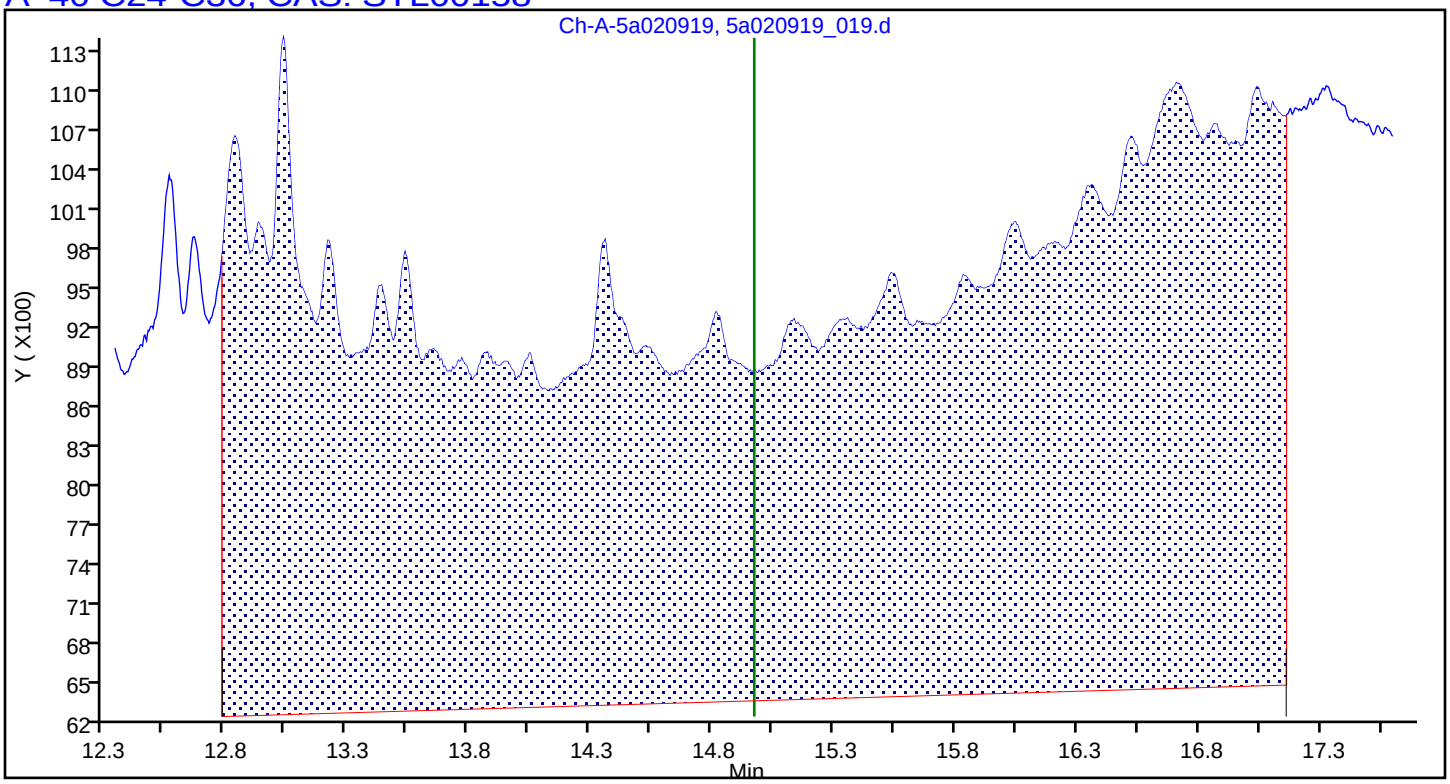


Report Date: 11-Feb-2019 12:06:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_019.d				
Injection Date:	09-Feb-2019 19:19:49	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-17-E	Lab Sample ID:	720-91048-17		
Client ID:	DG-T17S-7-7.5				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_020.d
Lims ID: 720-91048-E-18-E
Client ID: DG-W15S-0.5-1
Sample Type: Client
Inject. Date: 09-Feb-2019 19:49:31 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 001 Name: 720-0056518-020
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:06:28 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:06:28

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.508			ND	
	23 n-Decane	3.781	3.750	0.031	552	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		5931	NC	
A	1 C9-C13	4.489	(2.508-6.469)		5931	NC	
A	57 C10-C12	4.708	(3.750-5.666)		2505	0.2556	
	24 Dodecane		5.666			ND	
A	3 C9 - C17	5.850	(2.508-9.191)		9288	0.7663	
A	47 C9 - C18	6.145	(2.508-9.782)		9288	0.8629	
A	60 C10-C16	6.153	(3.750-8.556)		8350	0.7576	
A	25 C9-C19	6.415	(2.508-10.322)		9288	0.7609	
A	15 Kerosene	6.415	(2.508-10.322)		9288	0.8613	
	26 C13	6.446	6.469	-0.023	1309	NC	
A	59 C12-C16	7.111	(5.666-8.556)		5845	0.5964	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		161181	16.4	
A	28 C9-C24	7.646	(2.508-12.785)		588045	60.0	M
A	29 C9-C25	7.864	(2.508-13.221)		588045	60.0	M
A	54 C10-C23	8.041	(3.750-12.332)		587107	59.9	M
A	4 C10-C24	8.267	(3.750-12.785)		587107	59.9	M
A	16 C10-C25	8.485	(3.750-13.221)		587107	59.9	M
	45 Hexadecane		8.556			ND	
A	14 C10-C26	8.695	(3.750-13.641)		587107	59.9	M
A	67 C12-C22	8.763	(5.666-11.861)		479852	49.0	
A	5 Diesel	9.094	(3.750-14.438)		2646299	270.0	M
A	32 C10-C28	9.094	(3.750-14.438)		2646299	270.0	M
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		2646299	NC	M
A	30 C13-C22	9.165	(6.469-11.861)		478673	48.8	
	44 Heptadecane		9.191			ND	
A	31 C12-C24	9.226	(5.666-12.785)		584602	59.6	M
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		5307947	NC	M
A	52 Mineral oil	9.835	(2.508-17.162)		8385374	730.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		8385374	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		2642615	269.6	M
A 17 C10-C36	10.456	(3.750-17.162)		5307009	541.5	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		11489267	NC	
A 13 C9-C40	10.586	(2.508-18.664)		11489267	1420.9	
A 58 C16-C24	10.670	(8.556-12.785)		578757	59.1	M
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		11486597	1420.8	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		11472881	1419.4	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		11462767	1418.2	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		8310146	1095.0	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		11414039	1413.0	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		7539673	873.8	
A 55 C23-C32	14.107	(12.332-15.882)		4735193	995.8	
39 n-Octacosane		14.438			ND	
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		6673478	1095.4	
A 7 Motor Oil	14.973	(12.785-17.162)		6673478	1095.4	
A 50 C25-C36	15.191	(13.221-17.162)		6353269	1098.1	
A 10 C22-C40	15.262	(11.861-18.664)		10139897	1212.9	
A 41 C23-C40	15.498	(12.332-18.664)		9909547	1208.3	
A 8 C24-C40	15.724	(12.785-18.664)		9641021	1211.9	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		8007014	1472.6	
A 63 C29-C40	16.740	(14.816-18.664)		7411269	1546.3	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

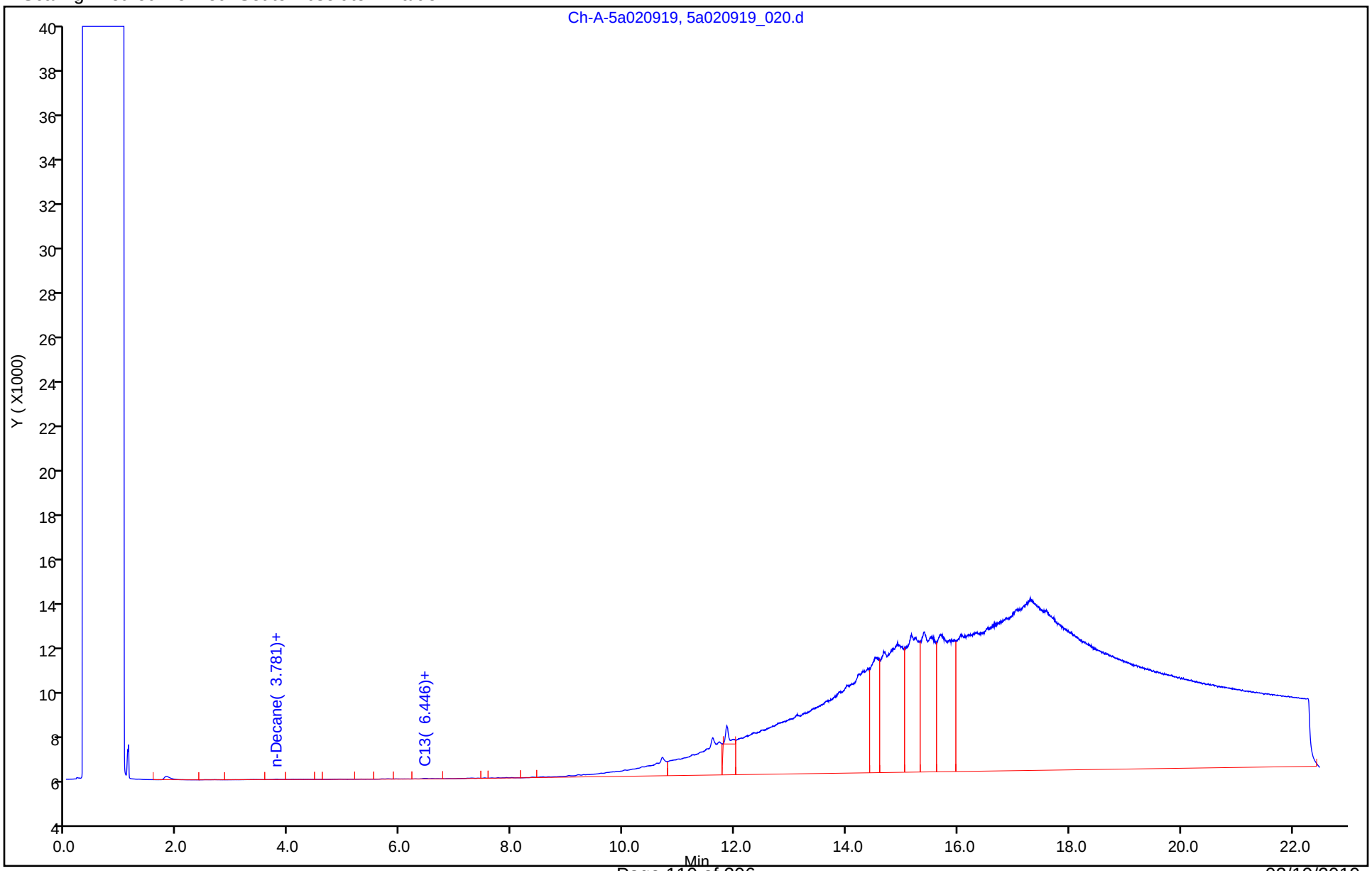
Report Date: 11-Feb-2019 12:06:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_020.d

Injection Date:	09-Feb-2019 19:49:31	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-18-E	Lab Sample ID:	720-91048-18	Worklist Smp#:	20
Client ID:	DG-W15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

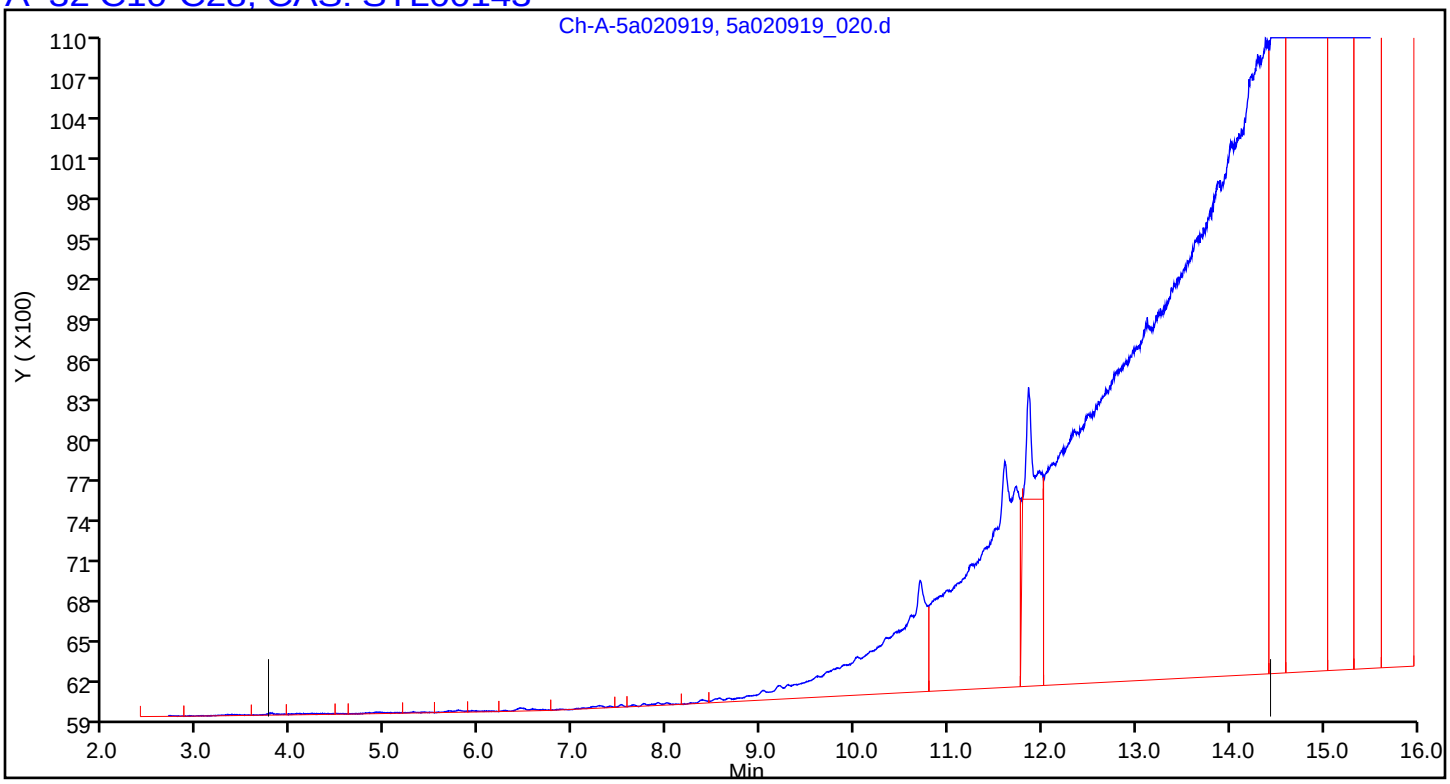


Report Date: 11-Feb-2019 12:06:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_020.d				
Injection Date:	09-Feb-2019 19:49:31	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-18-E	Lab Sample ID:	720-91048-18		
Client ID:	DG-W15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

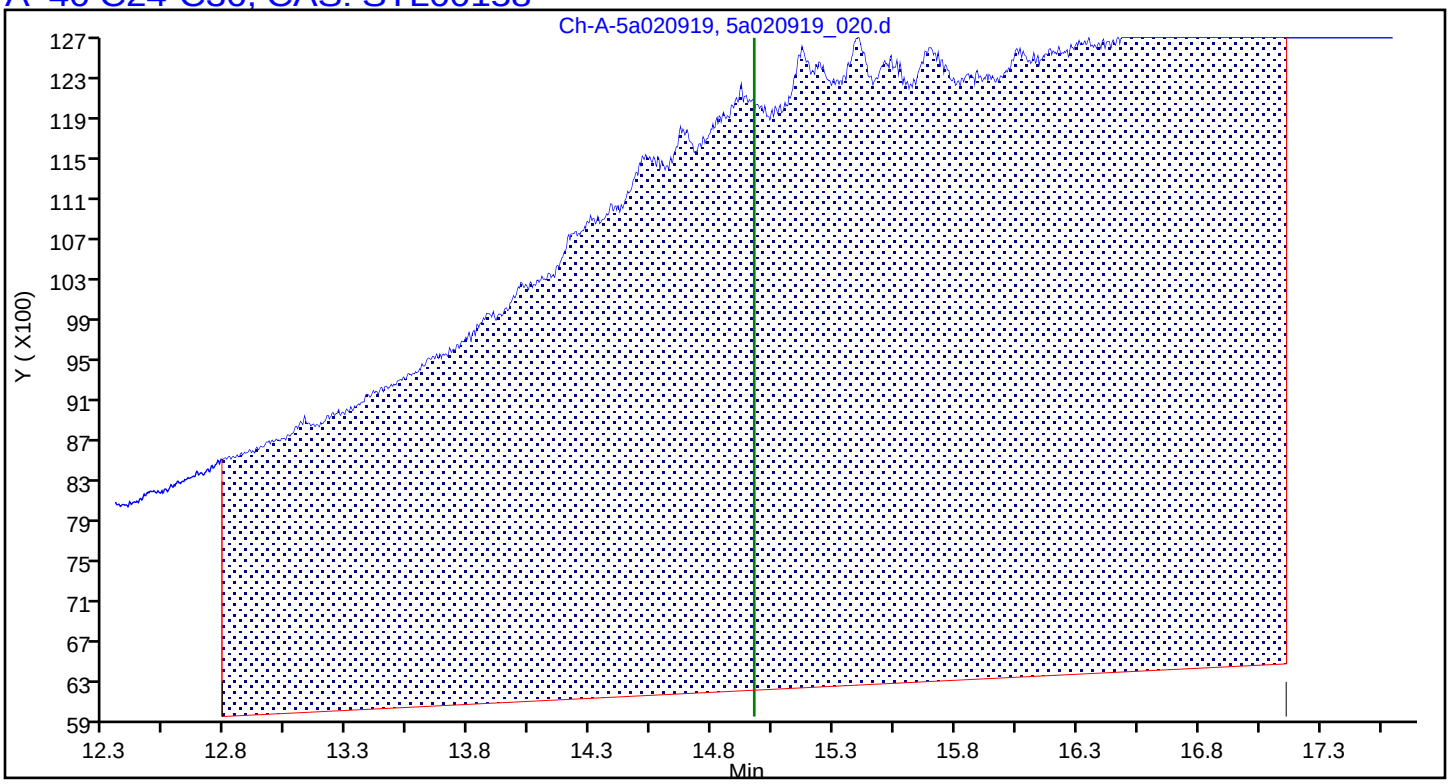


Report Date: 11-Feb-2019 12:06:31 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_020.d				
Injection Date:	09-Feb-2019 19:49:31	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-18-E	Lab Sample ID:	720-91048-18		
Client ID:	DG-W15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

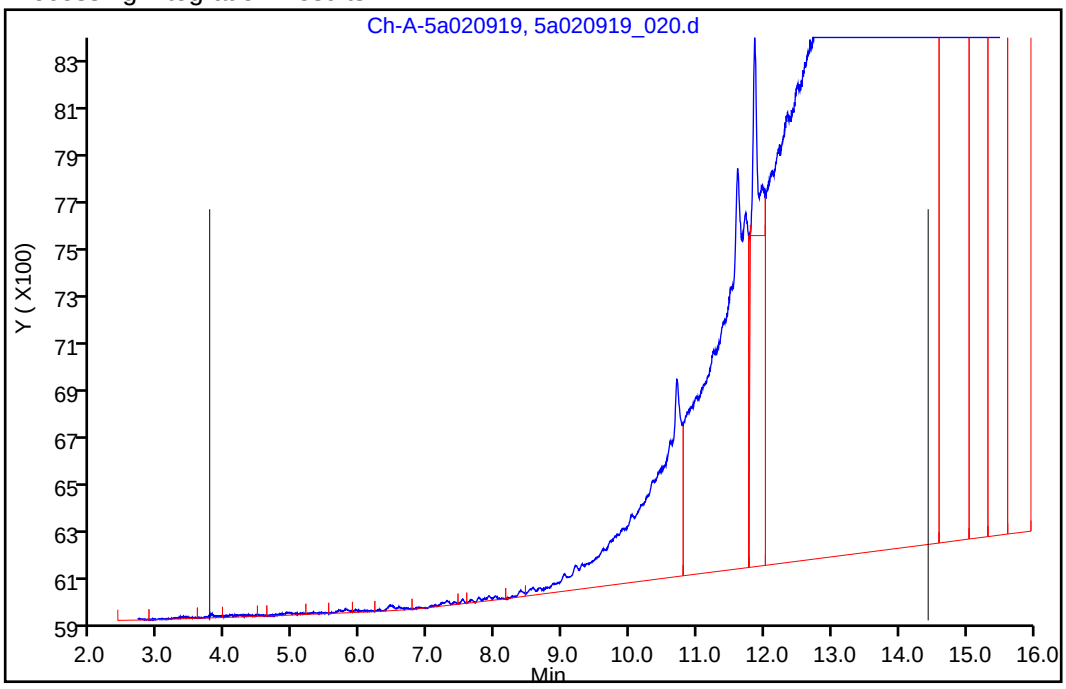
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_020.d				
Injection Date:	09-Feb-2019 19:49:31	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-18-E	Lab Sample ID:	720-91048-18		
Client ID:	DG-W15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

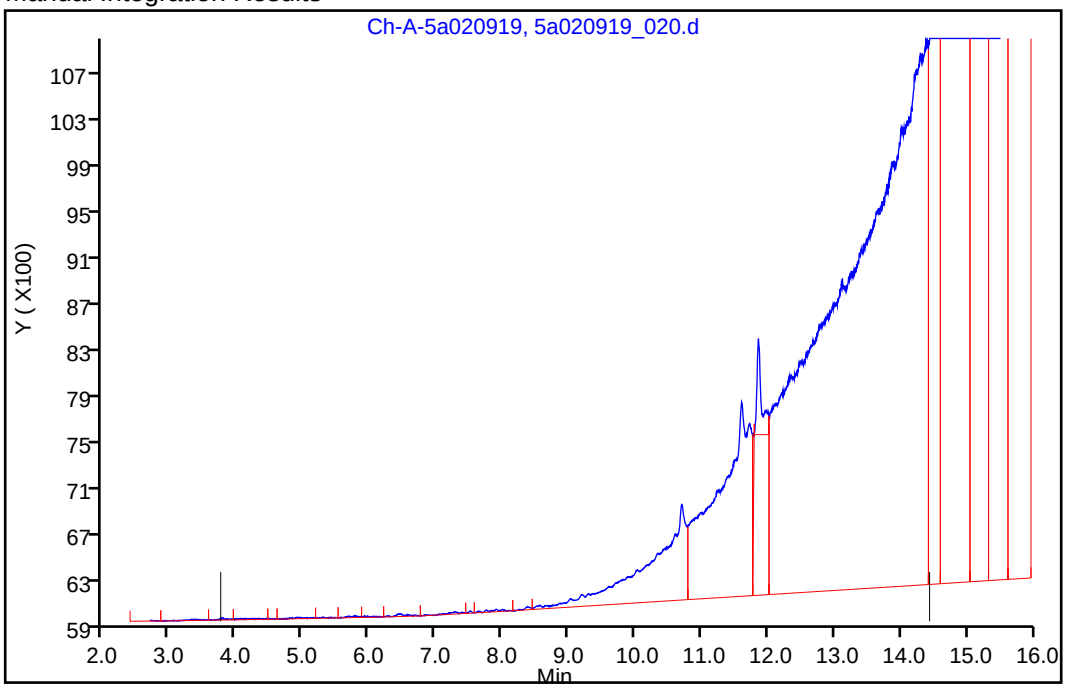
Processing Integration Results

RT: 9.09
Response: 566918
Amount: 57.842795



Manual Integration Results

RT: 9.09
Response: 2646299
Amount: 270.0026



Reviewer: hayashid, 11-Feb-2019 12:06:14

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

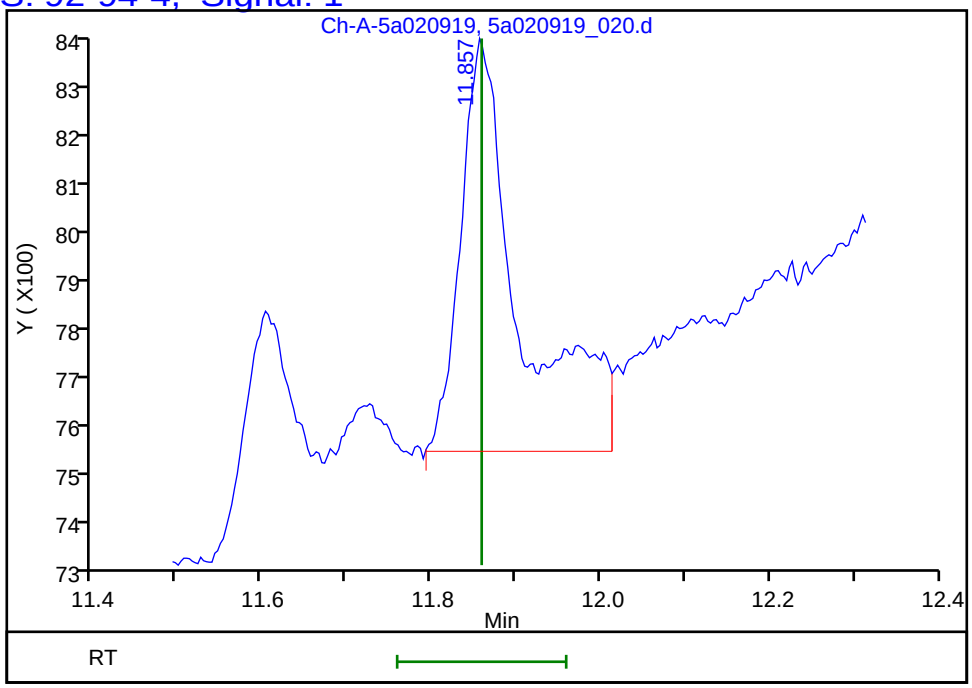
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_020.d				
Injection Date:	09-Feb-2019 19:49:31	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-18-E	Lab Sample ID:	720-91048-18		
Client ID:	DG-W15S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 20189
Amount: 1.693010



Reviewer: hayashid, 11-Feb-2019 12:06:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_015.d
Lims ID: 720-91048-E-19-O
Client ID: DG-W15S-3.5-4
Sample Type: Client
Inject. Date: 06-Feb-2019 16:25:50 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 104 Name: 720-0056465-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\DRO5B.m
Limit Group: DRO
Last Update: 07-Feb-2019 12:25:38 Calib Date: 06-Feb-2019 10:26:29
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0321

First Level Reviewer: luj Date: 07-Feb-2019 12:25:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.700	2.643	0.057	126	NC	
	23 n-Decane	3.903	3.859	0.044	640	NC	
A	21 Stoddard Solvent	4.597	(2.643-6.552)		63541	5.59	
A	1 C9-C13	4.597	(2.643-6.552)		63541	5.02	
A	57 C10-C12	4.806	(3.859-5.754)		15947	1.62	
	24 Dodecane	5.776	5.754	0.022	2123	NC	
A	3 C9 - C17	5.947	(2.643-9.251)		533556	38.8	
A	47 C9 - C18	6.236	(2.643-9.828)		659982	58.8	
A	60 C10-C16	6.242	(3.859-8.624)		305985	25.2	
A	25 C9-C19	6.513	(2.643-10.382)		1066459	77.3	
A	15 Kerosene	6.513	(2.643-10.382)		1066459	94.8	
	26 C13		6.552			ND	
$	27 n-Decanoic Acid (Surr)		7.167			ND	U
A	59 C12-C16	7.189	(5.754-8.624)		290038	29.5	
A	62 C10-C20	7.387	(3.859-10.915)		1897582	193.3	
A	28 C9-C24	7.738	(2.643-12.833)		5501297	560.3	
A	29 C9-C25	7.955	(2.643-13.266)		6044438	615.6	
A	54 C10-C23	8.121	(3.859-12.383)		4537028	462.1	
A	4 C10-C24	8.346	(3.859-12.833)		5500833	560.3	
A	16 C10-C25	8.563	(3.859-13.266)		6043974	615.6	
	45 Hexadecane	8.663	8.624	0.039	61920	NC	
A	14 C10-C26	8.772	(3.859-13.685)		6891476	701.9	
A	67 C12-C22	8.834	(5.754-11.914)		3784480	385.5	
A	12 Unknown Hydrocarbons	9.168	(3.859-14.478)		8392628	NC	
A	32 C10-C28	9.168	(3.859-14.478)		8392628	854.8	
A	5 Diesel	9.168	(3.859-14.478)		8392628	854.8	
A	30 C13-C22	9.233	(6.552-11.914)		3749285	381.9	
	44 Heptadecane	9.178	9.251	-0.073	43105	NC	
A	31 C12-C24	9.294	(5.754-12.833)		5484886	558.6	
	49 n-Octadecane		9.828			ND	
A	11 Bunker Range Organics (C9-	9.917	(2.643-17.190)		18621819	NC	
A	9 Crude Oil Range Organics (	9.917	(2.643-17.190)		15673406	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.917	(2.643-17.190)		15673406	1404.3	
33 C19		10.382			ND	
A 64 C13-C28	10.515	(6.552-14.478)		8341486	849.6	
A 17 C10-C36	10.524	(3.859-17.190)		18621355	1896.6	
A 68 Crude Oil Range Organics (	10.669	(2.643-18.695)		18031190	NC	
A 13 C9-C40	10.669	(2.643-18.695)		18031190	2318.7	
A 58 C16-C24	10.729	(8.624-12.833)		5194848	529.1	
61 icosane		10.915			ND	
A 6 C10-C40	11.277	(3.859-18.695)		18028782	2318.6	
$ 34 p-Terphenyl		11.887			ND	U
35 n-Docosane		11.914			ND	
A 18 C12-C40	12.224	(5.754-18.695)		17994361	2314.5	
36 Tricosane	12.387	12.383	0.004	257589	NC	
A 66 C13-C40	12.623	(6.552-18.695)		16908658	2178.1	
37 n-Tetracosane	12.815	12.833	-0.018	272611	NC	
A 2 C16-C36 ORO	12.907	(8.624-17.190)		9953361	1395.2	
38 C25	13.275	13.266	0.009	313080	NC	
A 19 C16-C40	13.660	(8.624-18.695)		17579124	2264.0	
46 n-Hexacosane	13.682	13.685	-0.003	182673	NC	
A 20 C19-C36	13.786	(10.382-17.190)		12661620	1623.8	
A 55 C23-C32	14.149	(12.383-15.914)		7014552	1707.7	
39 n-Octacosane	14.421	14.478	-0.057	323822	NC	
65 C29	14.863	14.854	0.009	255467	NC	
A 7 Motor Oil	15.012	(12.833-17.190)		9076252	1590.0	
A 40 C24-C36	15.012	(12.833-17.190)		9462766	1657.7	M
A 50 C25-C36	15.228	(13.266-17.190)		8390001	1559.1	
A 10 C22-C40	15.304	(11.914-18.695)		12689250	1601.8	
A 41 C23-C40	15.539	(12.383-18.695)		11881039	1536.8	
A 8 C24-C40	15.764	(12.833-18.695)		11146564	1494.4	
56 Dotriacontane	15.878	15.914	-0.036	410491	NC	
A 51 C28-C40	16.586	(14.478-18.695)		8323946	1696.6	
A 63 C29-C40	16.775	(14.854-18.695)		7471524	1714.7	
42 n-Hexatriacontane		17.190			ND	
43 C40		18.695			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

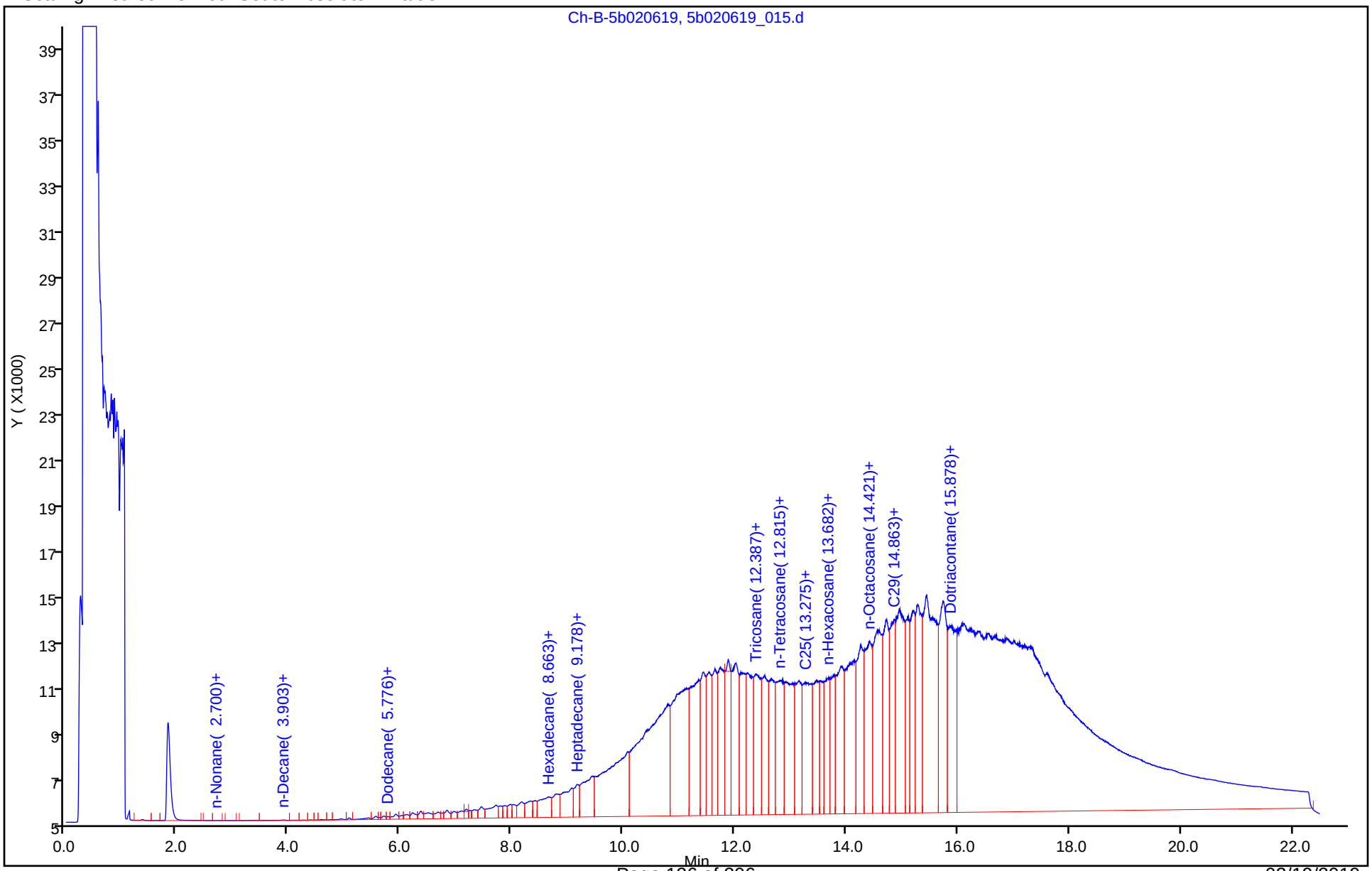
Report Date: 07-Feb-2019 12:25:38 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_015.d

Injection Date:	06-Feb-2019 16:25:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-19-O	Lab Sample ID:	720-91048-19	Worklist Smp#:	15
Client ID:	DG-W15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

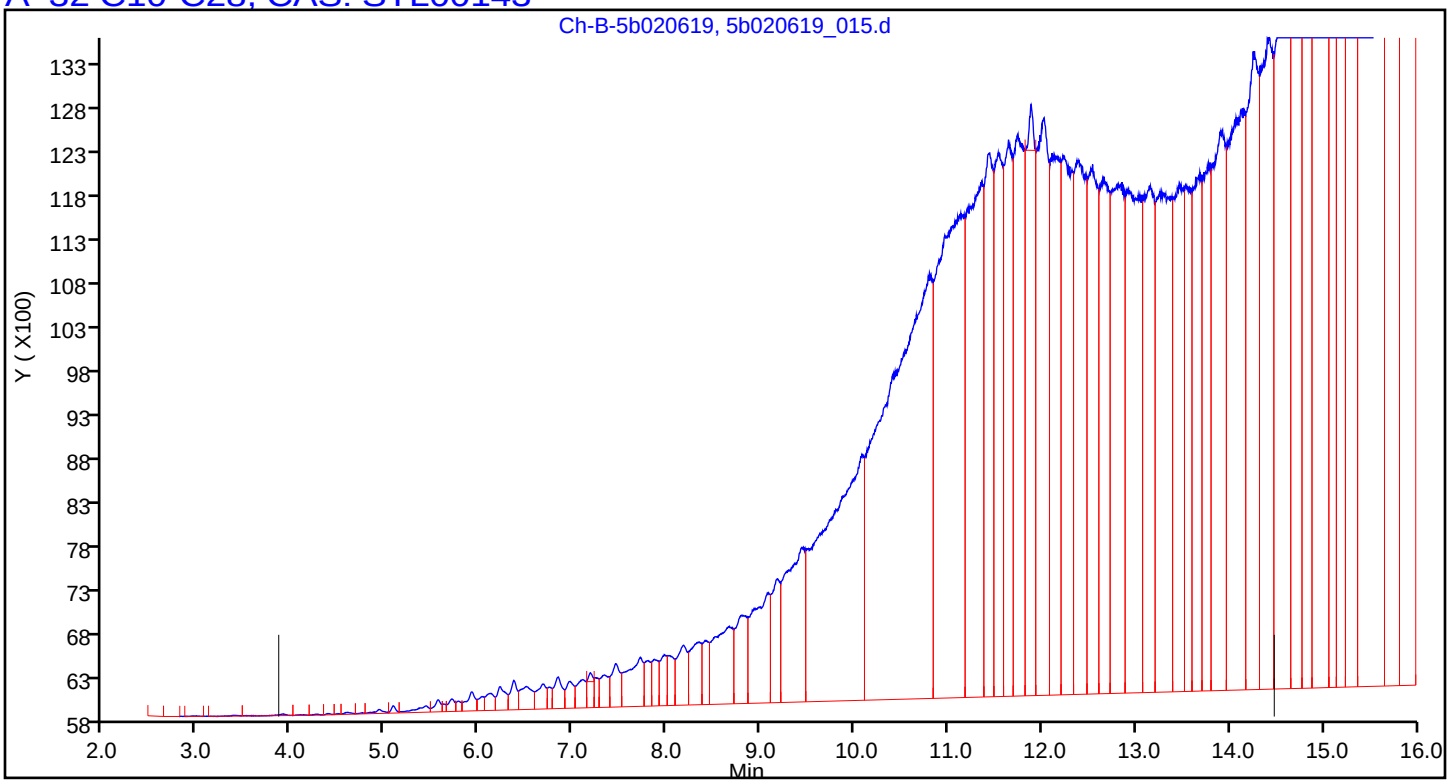


Report Date: 07-Feb-2019 12:25:39 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_015.d				
Injection Date:	06-Feb-2019 16:25:50	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-19-O	Lab Sample ID:	720-91048-19		
Client ID:	DG-W15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

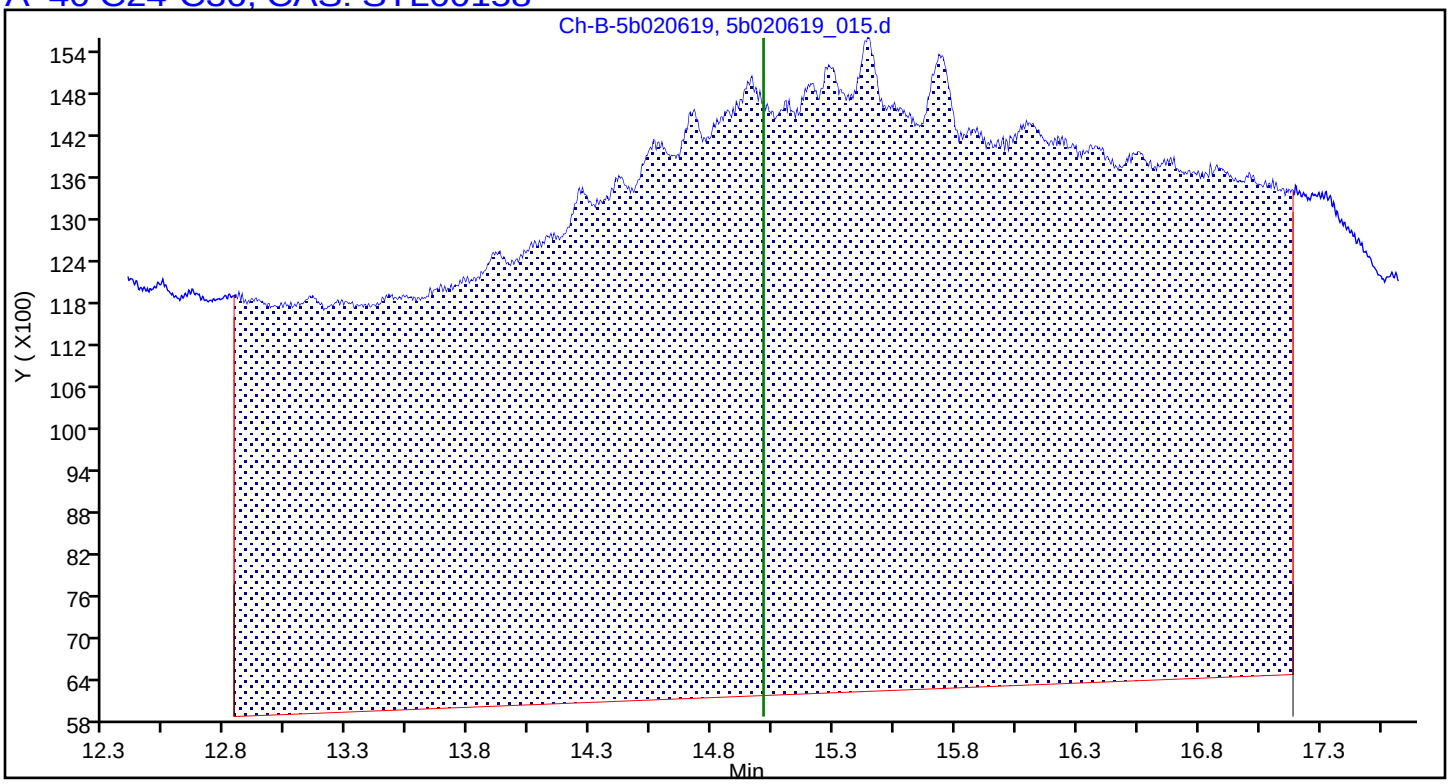


Report Date: 07-Feb-2019 12:25:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_015.d				
Injection Date:	06-Feb-2019 16:25:50	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-19-O	Lab Sample ID:	720-91048-19		
Client ID:	DG-W15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

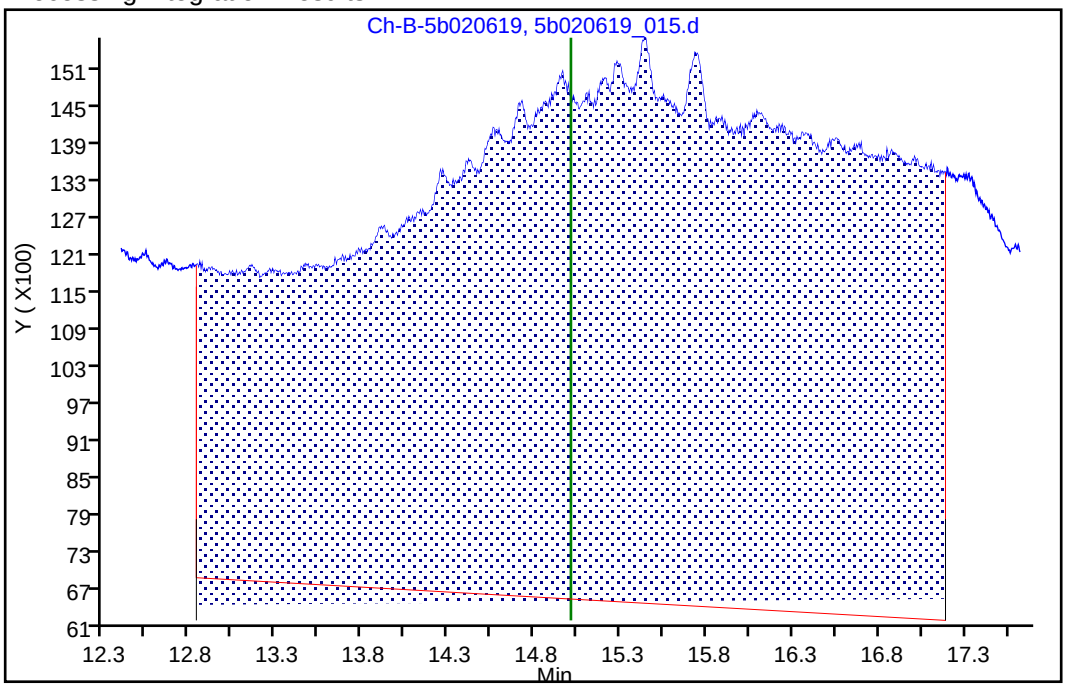
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_015.d				
Injection Date:	06-Feb-2019 16:25:50	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-19-O	Lab Sample ID:	720-91048-19		
Client ID:	DG-W15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.012, CAS: STL00158

Signal: 1

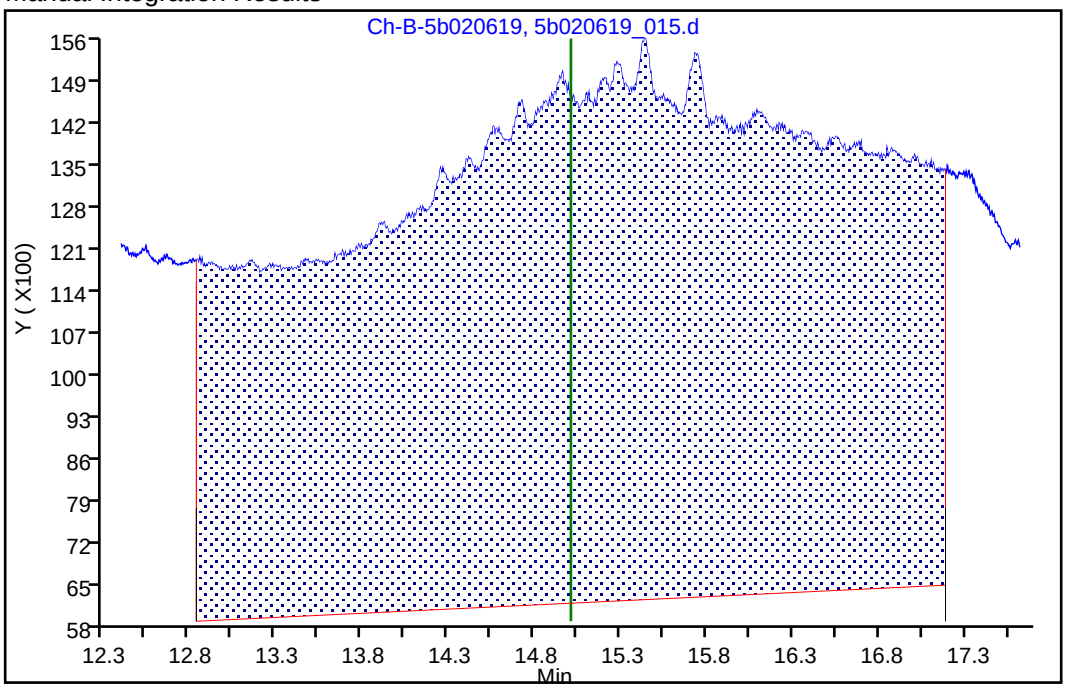
Processing Integration Results

RT: 15.01
Response: 9076252
Amount: 1590.0304



Manual Integration Results

RT: 15.01
Response: 9462766
Amount: 1657.7421



Reviewer: luj, 07-Feb-2019 12:25:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

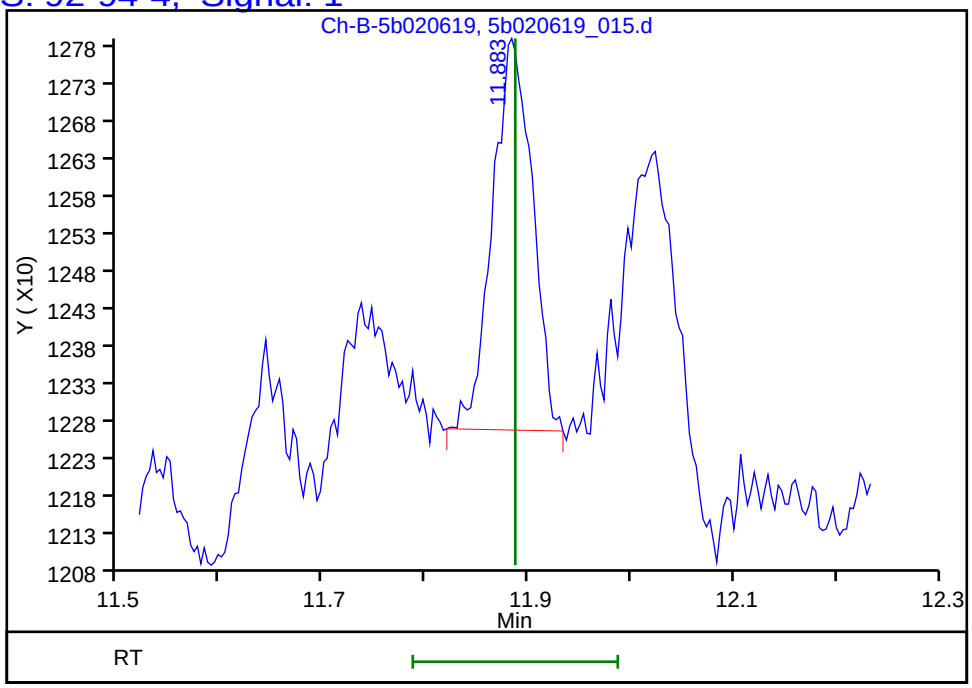
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190206-56465.b\5b020619_015.d				
Injection Date:	06-Feb-2019 16:25:50	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-19-O	Lab Sample ID:	720-91048-19		
Client ID:	DG-W15S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.88
Response: 6980
Amount: 0.607721



Reviewer: luj, 07-Feb-2019 12:25:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_021.d
Lims ID: 720-91048-E-20-E
Client ID: DG-X17S-0.5-1
Sample Type: Client
Inject. Date: 09-Feb-2019 20:19:07 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 001 Name: 720-0056518-021
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:07:00 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:07:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.524	2.508	0.016	579	NC	
23 n-Decane	3.783	3.750	0.033	863	NC	
A 21 Stoddard Solvent	4.489	(2.508-6.469)		7717	NC	
A 1 C9-C13	4.489	(2.508-6.469)		7717	NC	
A 57 C10-C12	4.708	(3.750-5.666)		2915	0.2974	
24 Dodecane	5.683	5.666	0.017	1763	NC	
A 3 C9 - C17	5.850	(2.508-9.191)		29091	2.40	
A 47 C9 - C18	6.145	(2.508-9.782)		46774	4.35	
A 60 C10-C16	6.153	(3.750-8.556)		27585	2.50	
A 25 C9-C19	6.415	(2.508-10.322)		46774	3.83	
A 15 Kerosene	6.415	(2.508-10.322)		46774	4.34	
26 C13	6.462	6.469	-0.007	1162	NC	
A 59 C12-C16	7.111	(5.666-8.556)		24670	2.52	
$ 27 n-Decanoic Acid (Surr)		7.131			ND	U
A 62 C10-C20	7.304	(3.750-10.858)		179224	18.3	
A 28 C9-C24	7.646	(2.508-12.785)		679358	69.3	M
A 29 C9-C25	7.864	(2.508-13.221)		679358	69.3	M
A 54 C10-C23	8.041	(3.750-12.332)		677852	69.2	M
A 4 C10-C24	8.267	(3.750-12.785)		677852	69.2	M
A 16 C10-C25	8.485	(3.750-13.221)		677852	69.2	M
45 Hexadecane	8.537	8.556	-0.019	4569	NC	
A 14 C10-C26	8.695	(3.750-13.641)		677852	69.2	M
A 67 C12-C22	8.763	(5.666-11.861)		457108	46.6	
A 5 Diesel	9.094	(3.750-14.438)		3158514	322.3	M
A 32 C10-C28	9.094	(3.750-14.438)		3158514	322.3	M
A 12 Unknown Hydrocarbons	9.094	(3.750-14.438)		3158514	NC	M
A 30 C13-C22	9.165	(6.469-11.861)		454974	46.4	
44 Heptadecane	9.203	9.191	0.012	17683	NC	
A 31 C12-C24	9.226	(5.666-12.785)		674937	68.9	M
49 n-Octadecane		9.782			ND	
A 11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		8342030	NC	M
A 52 Mineral oil	9.835	(2.508-17.162)		9254927	805.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		9254927	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		3153465	321.7	M
A 17 C10-C36	10.456	(3.750-17.162)		8340524	851.0	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		12584858	NC	
A 13 C9-C40	10.586	(2.508-18.664)		12584858	1560.5	
A 58 C16-C24	10.670	(8.556-12.785)		654836	66.8	M
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		12581526	1560.3	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		12562660	1558.2	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		12546767	1556.4	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		9131747	1203.2	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		12461678	1546.5	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		8288169	960.5	
A 55 C23-C32	14.107	(12.332-15.882)		5316579	1118.0	
39 n-Octacosane	14.377	14.438	-0.061	2480662	NC	M
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		7268115	1193.0	
A 7 Motor Oil	14.973	(12.785-17.162)		7268115	1193.0	
A 50 C25-C36	15.191	(13.221-17.162)		6864596	1186.5	
A 10 C22-C40	15.262	(11.861-18.664)		11084917	1325.9	
A 41 C23-C40	15.498	(12.332-18.664)		10793093	1316.0	
A 8 C24-C40	15.724	(12.785-18.664)		10452246	1313.9	
56 Dotriacontane	15.901	15.882	0.019	308977	NC	
A 51 C28-C40	16.551	(14.438-18.664)		8475724	1584.9	
A 63 C29-C40	16.740	(14.816-18.664)		7811331	1661.5	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

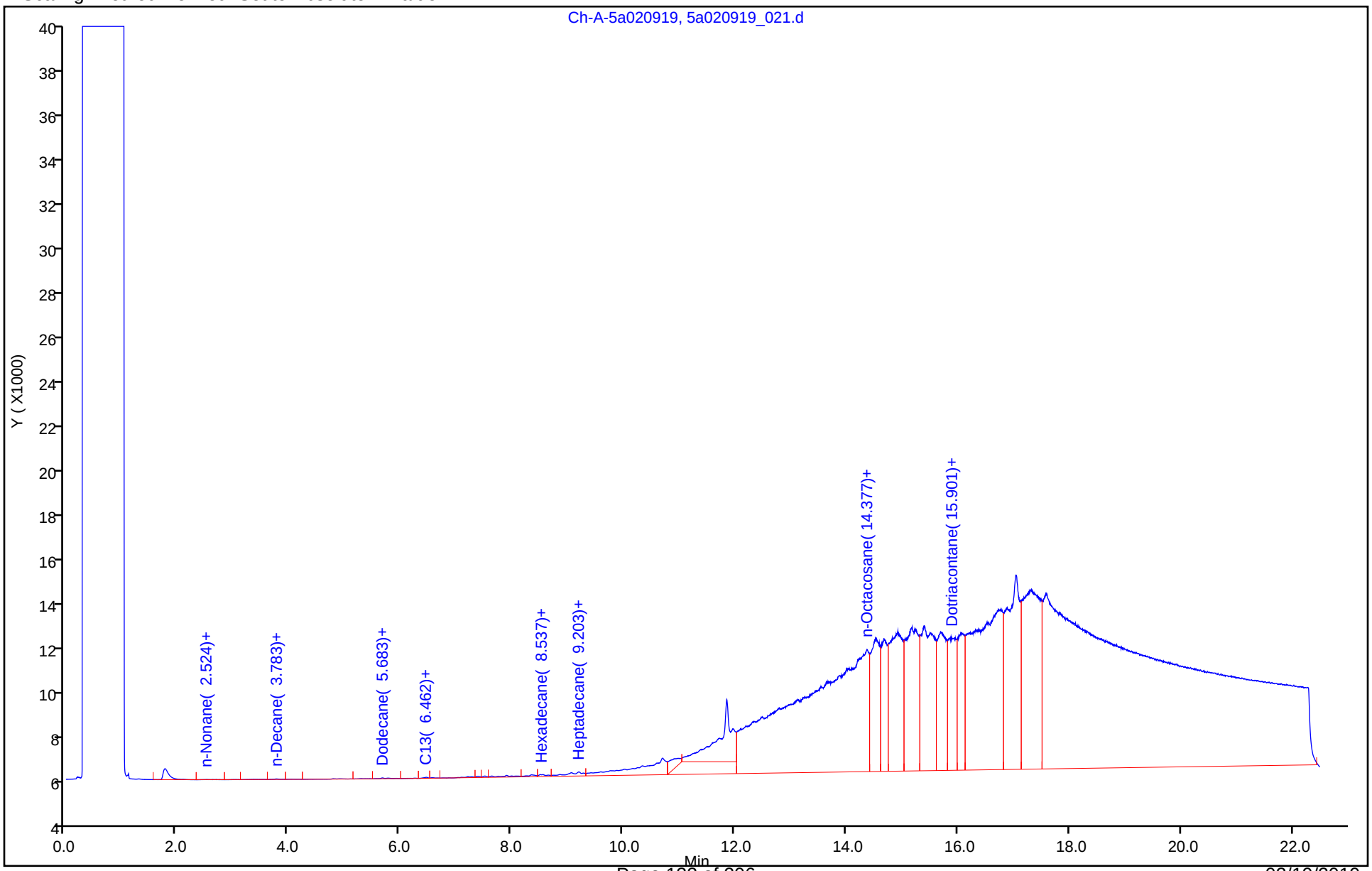
Report Date: 11-Feb-2019 12:07:00 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_021.d

Injection Date:	09-Feb-2019 20:19:07	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-20-E	Lab Sample ID:	720-91048-20	Worklist Smp#:	21
Client ID:	DG-X17S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

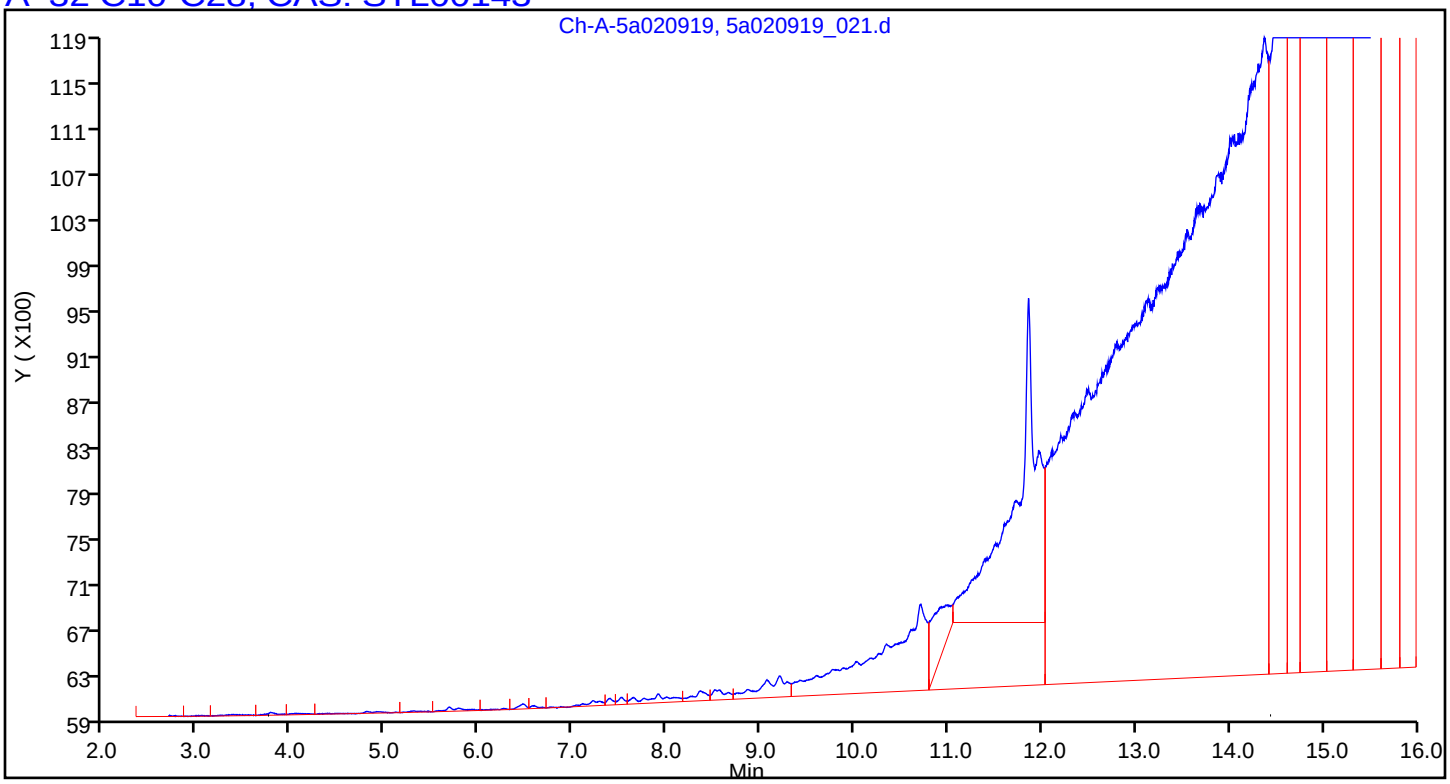


Report Date: 11-Feb-2019 12:07:01 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_021.d				
Injection Date:	09-Feb-2019 20:19:07	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-20-E	Lab Sample ID:	720-91048-20		
Client ID:	DG-X17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

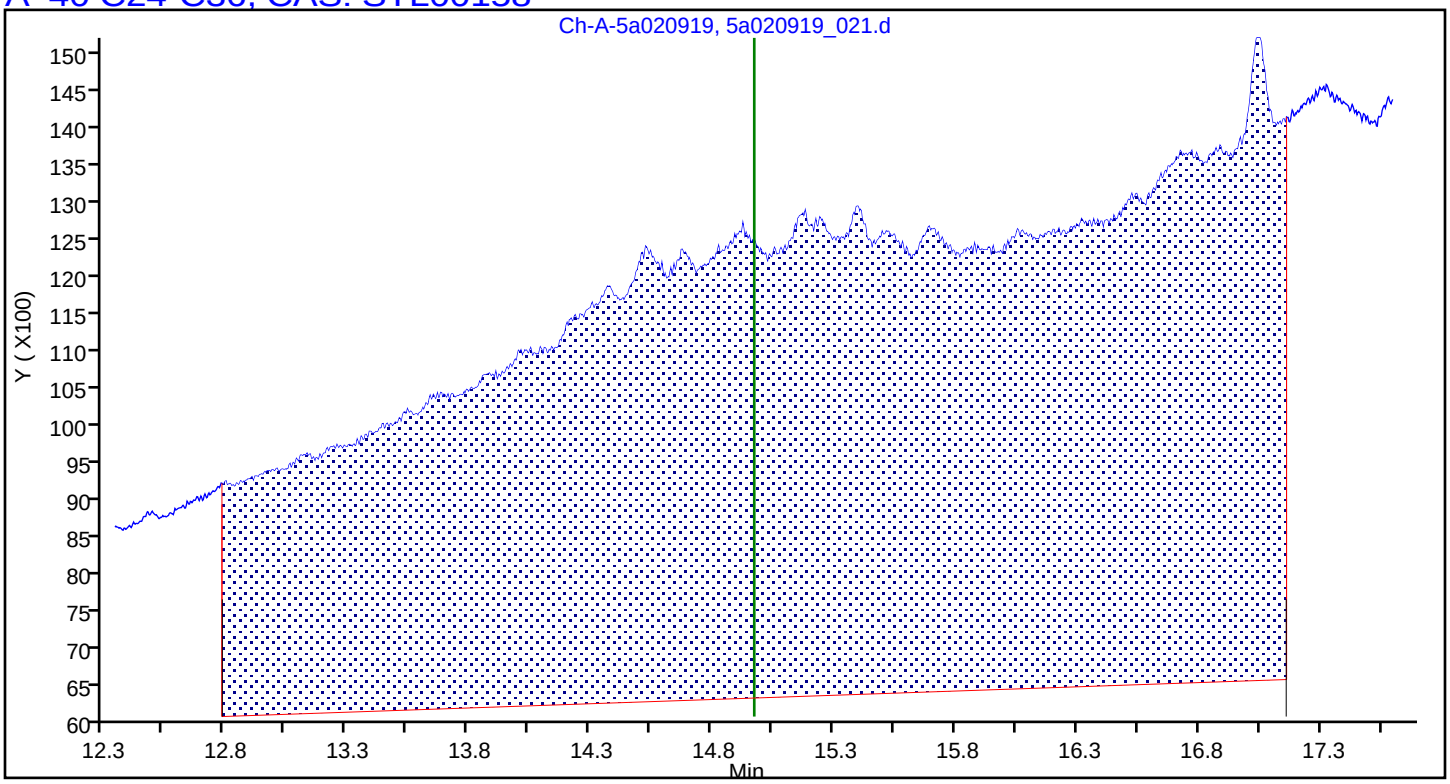


Report Date: 11-Feb-2019 12:07:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_021.d				
Injection Date:	09-Feb-2019 20:19:07	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-20-E	Lab Sample ID:	720-91048-20		
Client ID:	DG-X17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

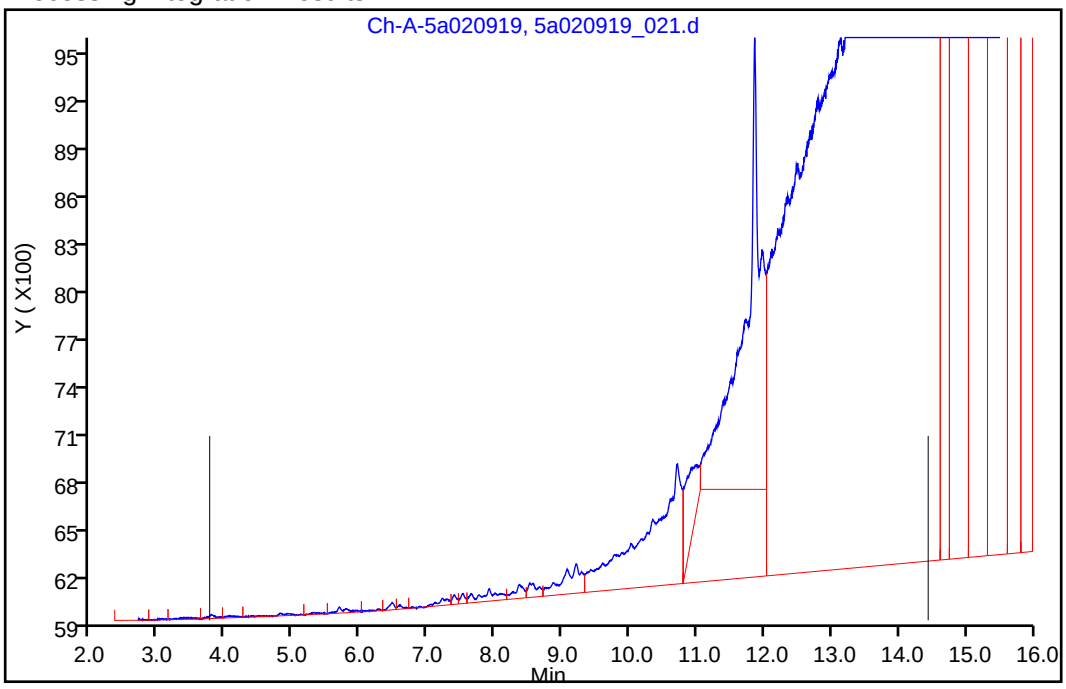
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_021.d				
Injection Date:	09-Feb-2019 20:19:07	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-20-E	Lab Sample ID:	720-91048-20		
Client ID:	DG-X17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

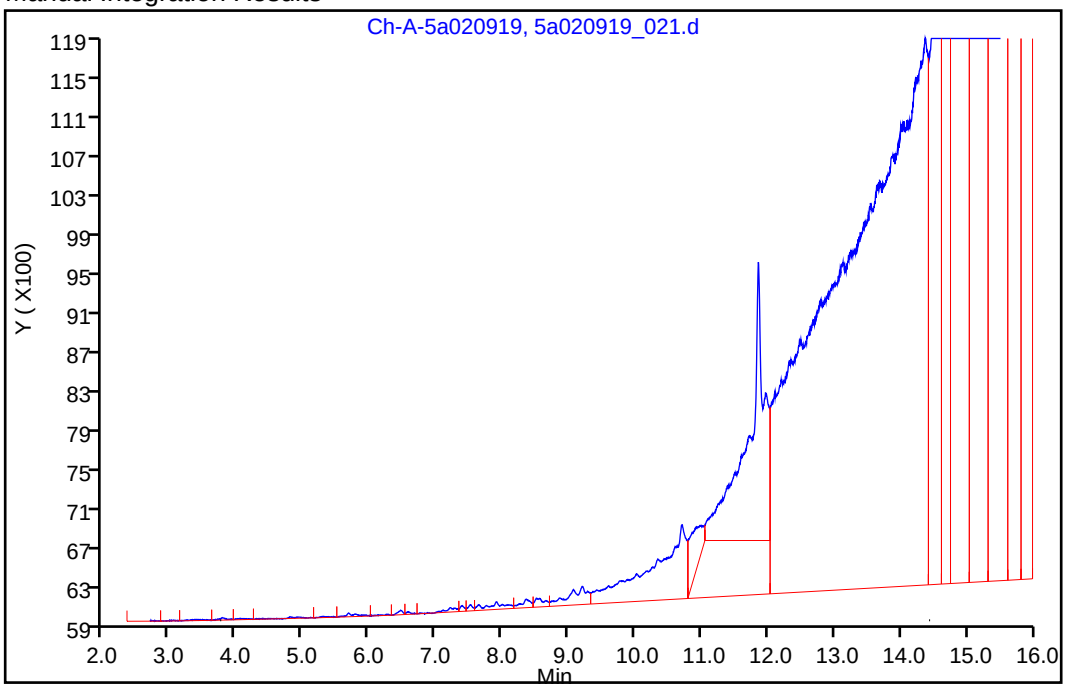
Processing Integration Results

RT: 9.09
Response: 425746
Amount: 43.438978



Manual Integration Results

RT: 9.09
Response: 3158514
Amount: 322.2640



Reviewer: hayashid, 11-Feb-2019 12:06:47

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

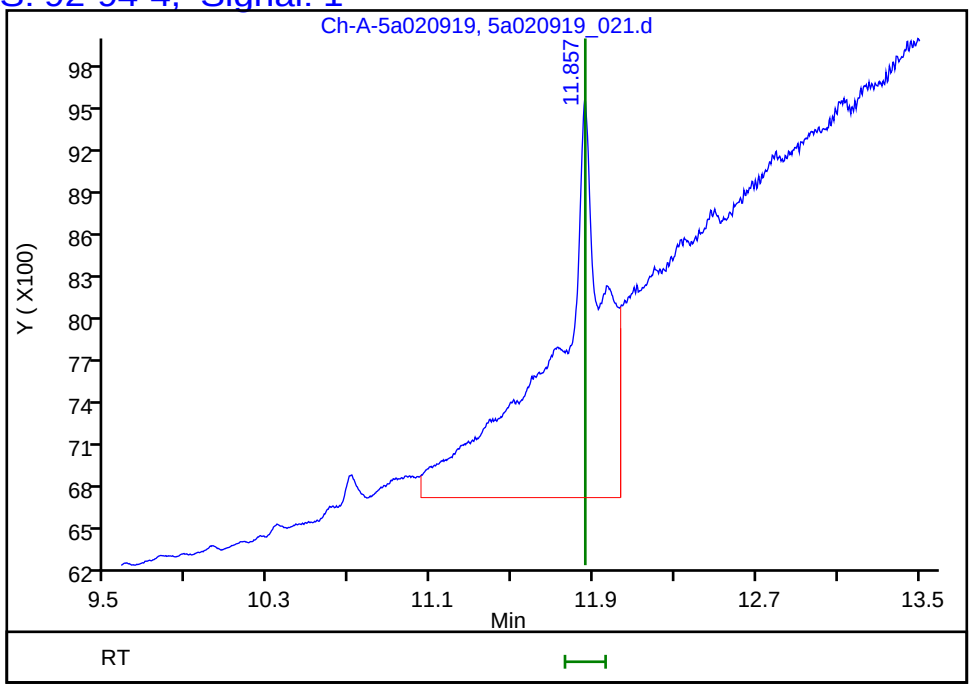
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_021.d

Injection Date:	09-Feb-2019 20:19:07	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-20-E	Lab Sample ID:	720-91048-20		
Client ID:	DG-X17S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 249773
Amount: 20.945477



Reviewer: hayashid, 11-Feb-2019 12:07:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_040.d
Lims ID: 720-91048-E-21-D
Client ID: DG-X17S-3.5-4
Sample Type: Client
Inject. Date: 08-Feb-2019 03:00:38 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: #: 016 Name: 720-0056483-040
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\DRO5A.m
Limit Group: DRO
Last Update: 08-Feb-2019 12:27:42 Calib Date: 07-Feb-2019 08:44:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0330

First Level Reviewer: luj Date: 08-Feb-2019 12:27:42

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.521	2.506	0.015	386	NC	
23 n-Decane	3.771	3.751	0.020	519	NC	
A 1 C9-C13	4.490	(2.506-6.474)		4122	NC	
A 21 Stoddard Solvent	4.490	(2.506-6.474)		4122	NC	
A 57 C10-C12	4.711	(3.751-5.670)		1446	0.1475	
24 Dodecane		5.670			ND	
A 3 C9 - C17	5.853	(2.506-9.199)		28456	2.35	M
A 47 C9 - C18	6.149	(2.506-9.792)		45705	4.25	M
A 60 C10-C16	6.157	(3.751-8.562)		15437	1.40	M
A 15 Kerosene	6.417	(2.506-10.329)		91792	8.51	M
A 25 C9-C19	6.417	(2.506-10.329)		91792	7.52	M
26 C13	6.473	6.474	-0.001	1078	NC	
A 59 C12-C16	7.116	(5.670-8.562)		13991	1.43	M
$ 27 n-Decanoic Acid (Surr)		7.139			ND	U
A 62 C10-C20	7.308	(3.751-10.865)		225957	23.1	M
A 28 C9-C24	7.649	(2.506-12.792)		226881	23.1	M
A 29 C9-C25	7.867	(2.506-13.228)		226881	23.1	M
A 54 C10-C23	8.045	(3.751-12.339)		225957	23.1	M
A 4 C10-C24	8.271	(3.751-12.792)		225957	23.1	M
A 16 C10-C25	8.489	(3.751-13.228)		225957	23.1	M
45 Hexadecane	8.563	8.562	0.001	3486	NC	M
A 14 C10-C26	8.699	(3.751-13.647)		1349386	137.7	M
A 67 C12-C22	8.769	(5.670-11.868)		224511	22.9	M
A 12 Unknown Hydrocarbons	9.097	(3.751-14.444)		2241317	NC	M
A 32 C10-C28	9.097	(3.751-14.444)		2241317	228.7	M
A 5 Diesel	9.097	(3.751-14.444)		2241317	228.7	M
A 30 C13-C22	9.171	(6.474-11.868)		223837	22.8	M
44 Heptadecane	9.213	9.199	0.014	17249	NC	M
A 31 C12-C24	9.231	(5.670-12.792)		224511	22.9	M
49 n-Octadecane	9.817	9.792	0.025	46087	NC	M
A 9 Crude Oil Range Organics (	9.837	(2.506-17.168)		5976436	NC	
A 52 Mineral oil	9.837	(2.506-17.168)		5976436	520.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.837	(2.506-17.168)		5436223	NC	M
33 C19		10.329			ND	
A 64 C13-C28	10.459	(6.474-14.444)		2239197	228.5	M
A 17 C10-C36	10.460	(3.751-17.168)		5435299	554.6	M
A 13 C9-C40	10.590	(2.506-18.674)		7253242	881.0	
A 68 Crude Oil Range Organics (	10.590	(2.506-18.674)		7253242	NC	
A 58 C16-C24	10.677	(8.562-12.792)		210520	21.5	M
61 icosane		10.865			ND	
A 6 C10-C40	11.212	(3.751-18.674)		7251046	881.1	
$ 34 p-Terphenyl		11.859			ND	
35 n-Docosane		11.868			ND	
A 18 C12-C40	12.172	(5.670-18.674)		7241874	880.3	
36 Tricosane		12.339			ND	
A 66 C13-C40	12.574	(6.474-18.674)		7234682	879.6	
37 n-Tetracosane		12.792			ND	
A 2 C16-C36 ORO	12.865	(8.562-17.168)		5909327	778.6	
38 C25	13.257	13.228	0.029	1123429	NC	M
A 19 C16-C40	13.618	(8.562-18.674)		7186133	874.1	
46 n-Hexacosane		13.647			ND	
A 20 C19-C36	13.749	(10.329-17.168)		5139899	595.7	
A 55 C23-C32	14.113	(12.339-15.888)		3591738	755.3	
39 n-Octacosane	14.383	14.444	-0.061	891931	NC	M
65 C29	14.910	14.823	0.087	651055	NC	M
A 7 Motor Oil	14.980	(12.792-17.168)		4348604	713.8	
A 40 C24-C36	14.980	(12.792-17.168)		4348604	713.8	
A 50 C25-C36	15.198	(13.228-17.168)		4085438	706.1	
A 10 C22-C40	15.271	(11.868-18.674)		5938103	710.3	
A 41 C23-C40	15.506	(12.339-18.674)		5730257	698.7	
A 8 C24-C40	15.733	(12.792-18.674)		5496875	691.0	
56 Dotriacontane		15.888			ND	
A 51 C28-C40	16.559	(14.444-18.674)		4227984	691.3	
A 63 C29-C40	16.748	(14.823-18.674)		3776897	681.3	
42 n-Hexatriacontane		17.168			ND	
43 C40		18.674			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated

Review Flags
- M - Manually Integrated
- U - Marked Undetected

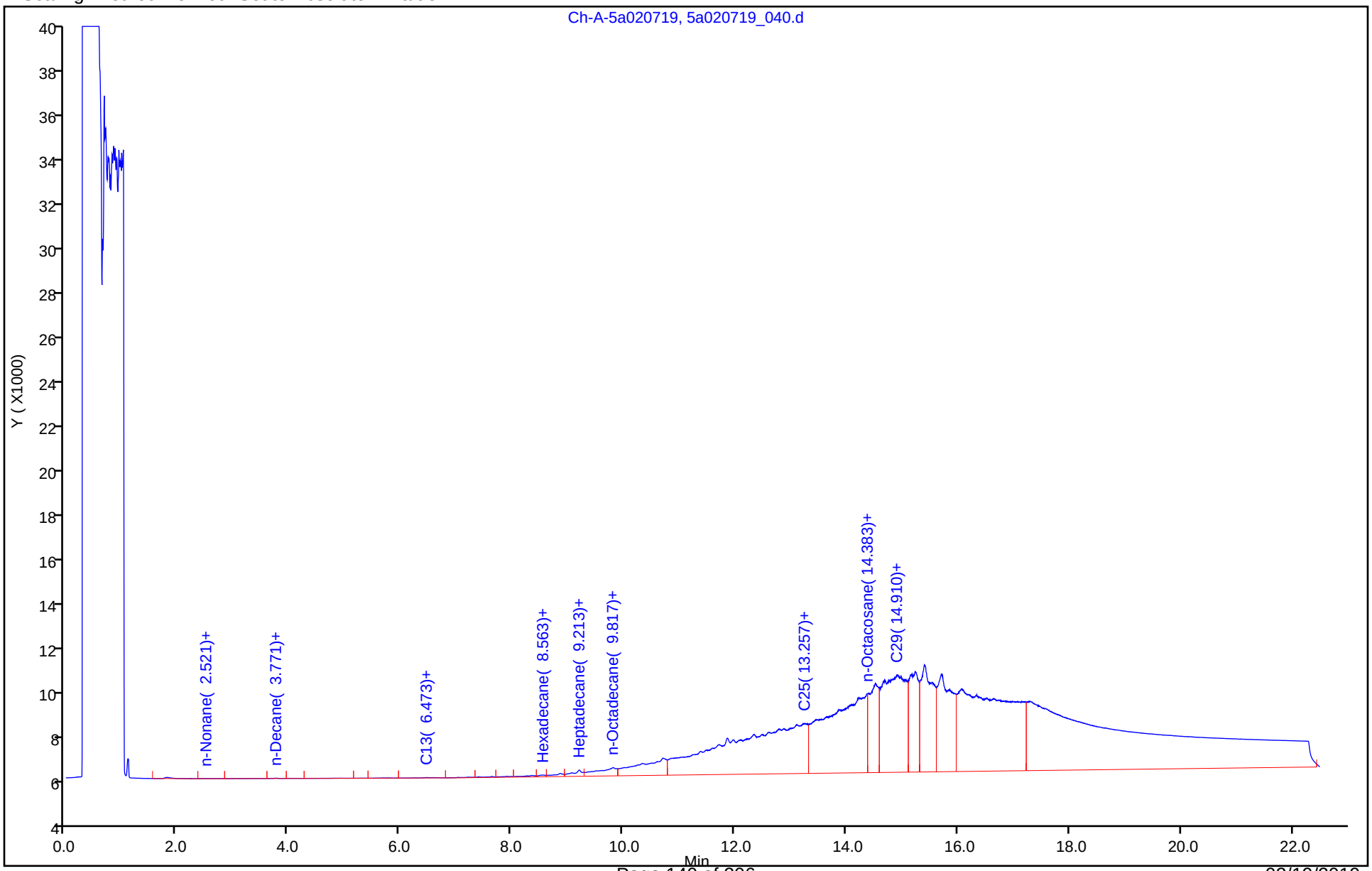
Report Date: 08-Feb-2019 12:27:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_040.d

Injection Date:	08-Feb-2019 03:00:38	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-21-D	Lab Sample ID:	720-91048-21	Worklist Smp#:	40
Client ID:	DG-X17S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

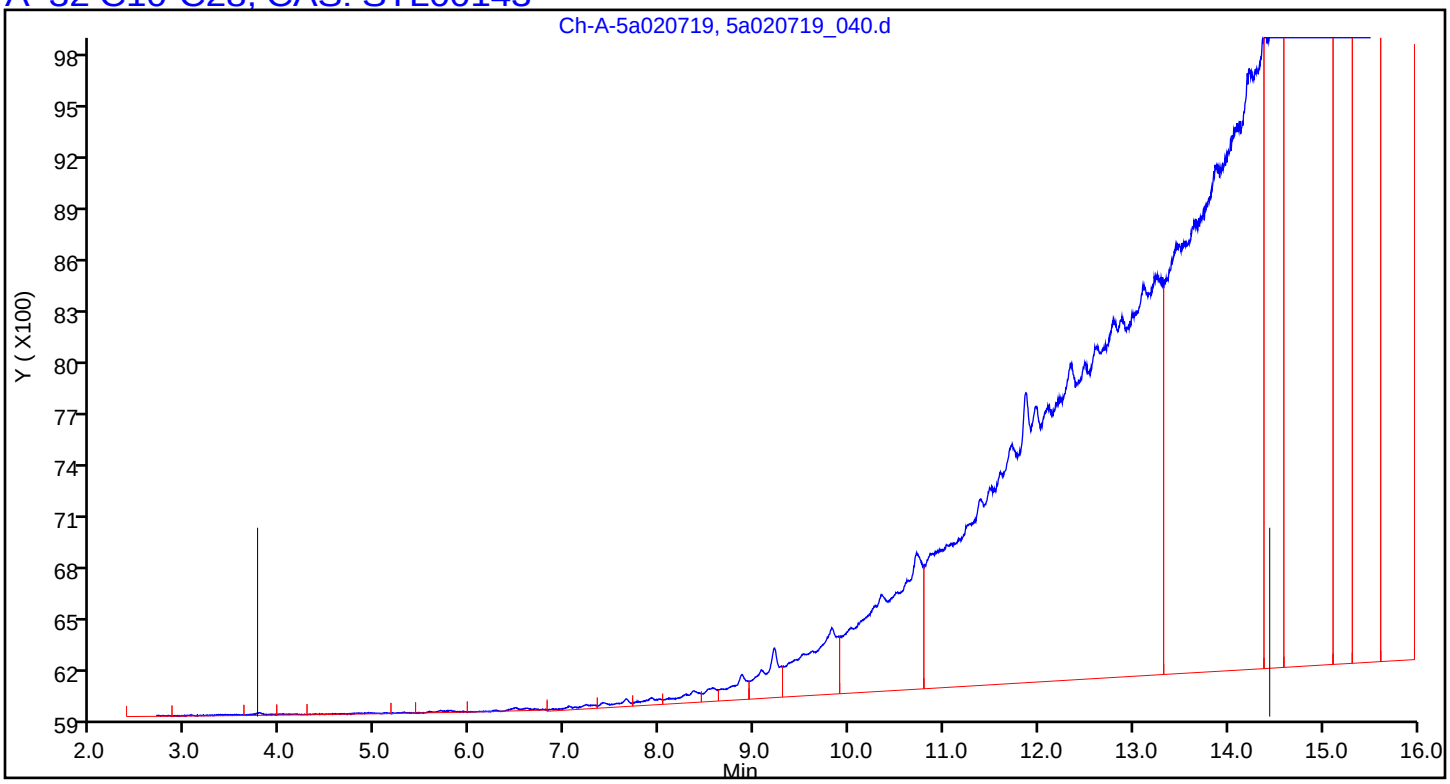


Report Date: 08-Feb-2019 12:27:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_040.d				
Injection Date:	08-Feb-2019 03:00:38	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-21-D	Lab Sample ID:	720-91048-21		
Client ID:	DG-X17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

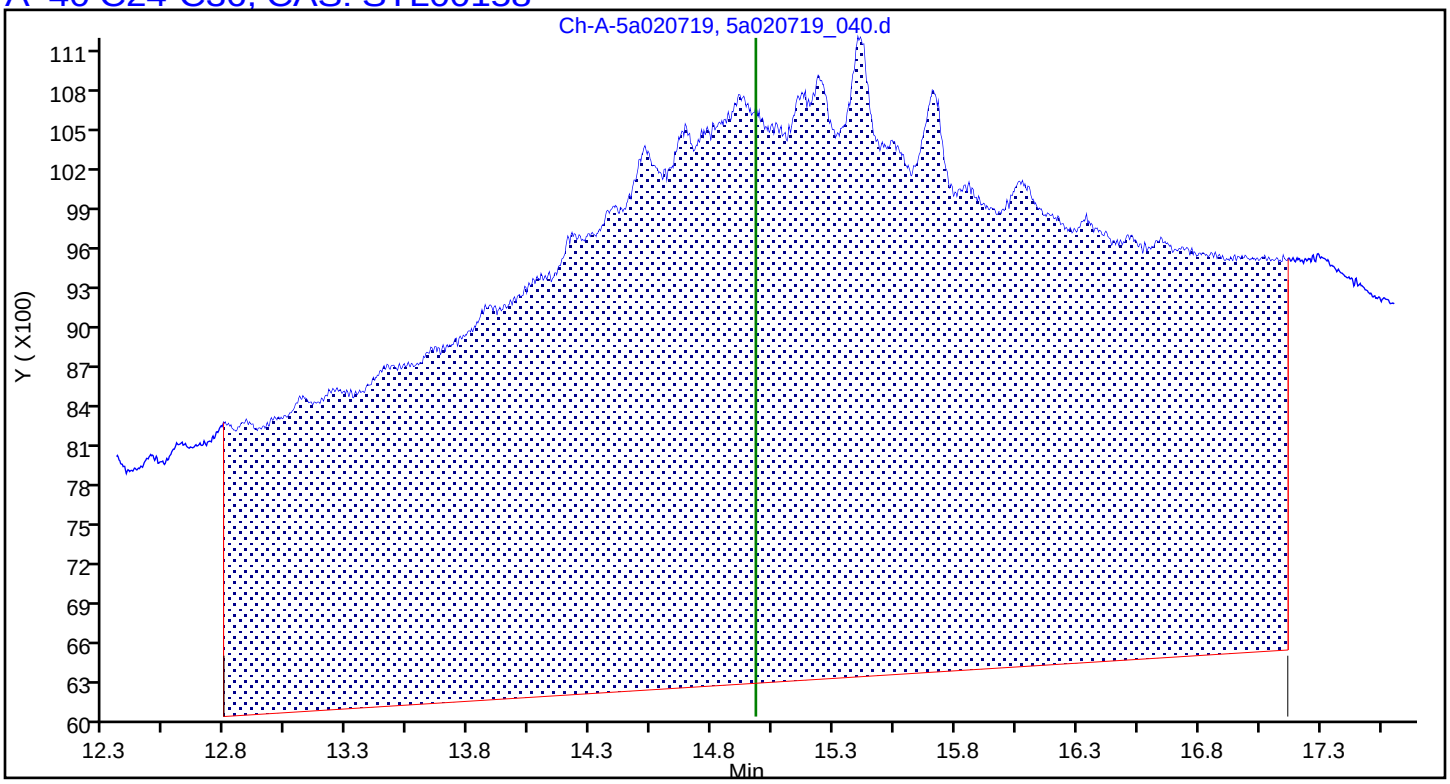


Report Date: 08-Feb-2019 12:27:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_040.d				
Injection Date:	08-Feb-2019 03:00:38	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-21-D	Lab Sample ID:	720-91048-21		
Client ID:	DG-X17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

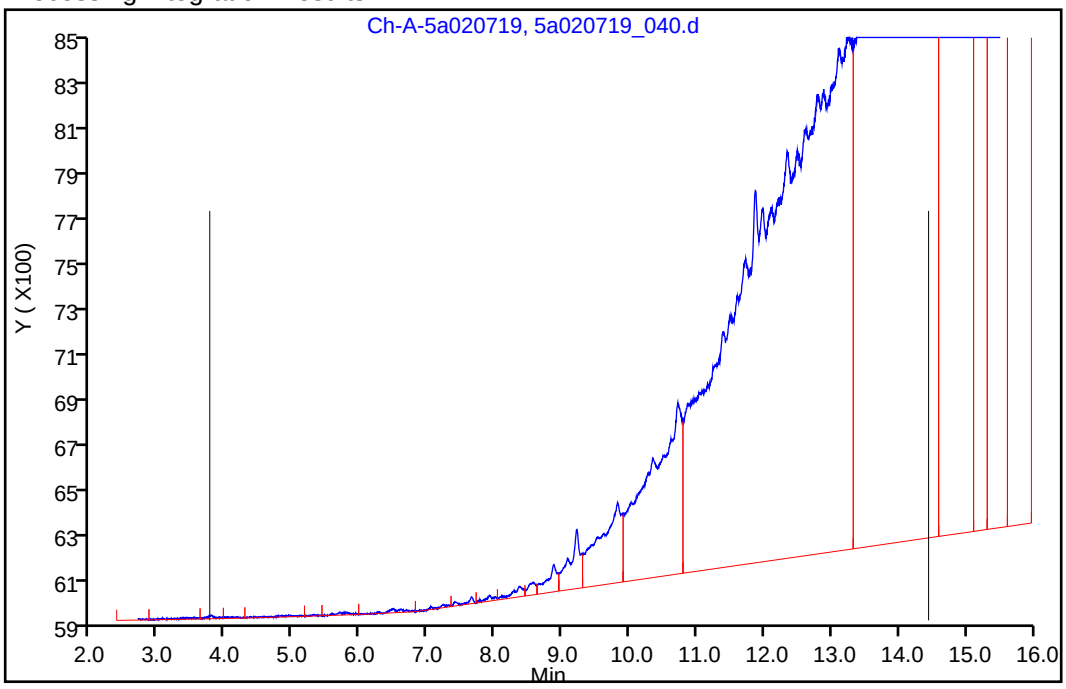
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_040.d				
Injection Date:	08-Feb-2019 03:00:38	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-21-D	Lab Sample ID:	720-91048-21		
Client ID:	DG-X17S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

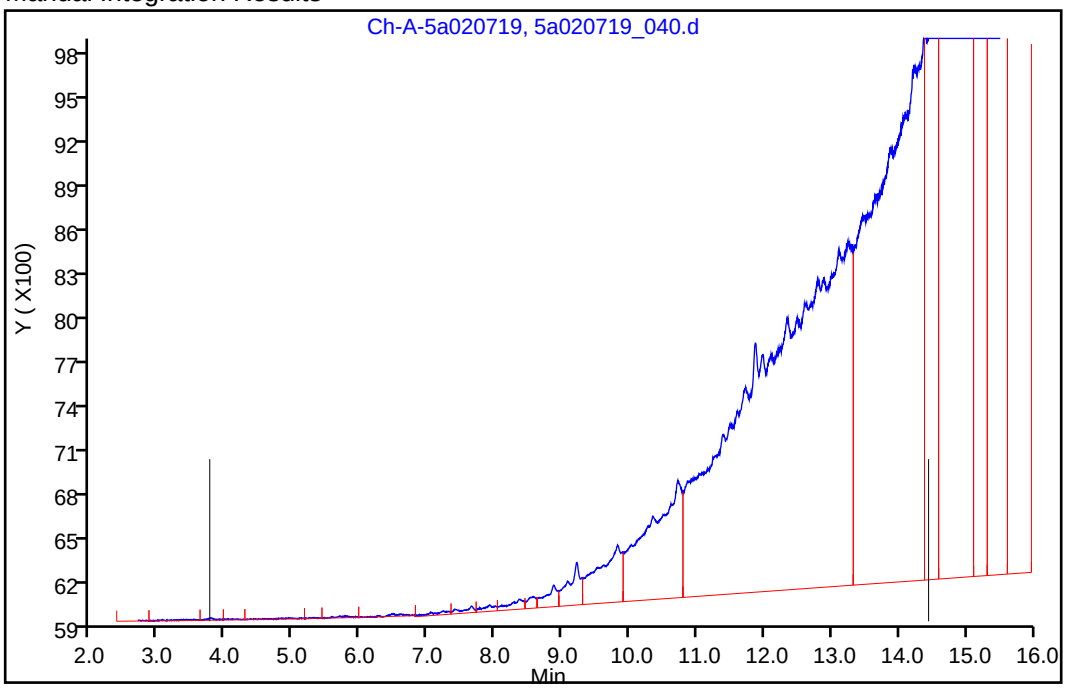
Processing Integration Results

RT: 9.10
Response: 1271976
Amount: 129.7801



Manual Integration Results

RT: 9.10
Response: 2241317
Amount: 228.6822



Reviewer: luj, 08-Feb-2019 12:27:20

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_041.d
Lims ID: 720-91048-E-22-D
Client ID: DG-R13S-0.5-1
Sample Type: Client
Inject. Date: 08-Feb-2019 03:29:44 ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 017 Name: 720-0056483-041
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\DRO5A.m
Limit Group: DRO
Last Update: 08-Feb-2019 12:28:15 Calib Date: 07-Feb-2019 08:44:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0330

First Level Reviewer: luj Date: 08-Feb-2019 12:28:15

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.425	2.506	-0.081	2036	NC	
23 n-Decane		3.751			ND	
A 1 C9-C13	4.490	(2.506-6.474)		59177	NC	
A 21 Stoddard Solvent	4.490	(2.506-6.474)		59177	NC	
A 57 C10-C12	4.711	(3.751-5.670)		25465	2.60	
24 Dodecane		5.670			ND	
A 3 C9 - C17	5.853	(2.506-9.199)		168526	13.9	
A 47 C9 - C18	6.149	(2.506-9.792)		267684	24.9	
A 60 C10-C16	6.157	(3.751-8.562)		124254	11.3	
A 15 Kerosene	6.417	(2.506-10.329)		300889	27.9	
A 25 C9-C19	6.417	(2.506-10.329)		300889	24.7	
26 C13	6.449	6.474	-0.025	24481	NC	
A 59 C12-C16	7.116	(5.670-8.562)		112102	11.4	
$ 27 n-Decanoic Acid (Surr)		7.139			ND	
A 62 C10-C20	7.308	(3.751-10.865)		501196	51.1	
A 28 C9-C24	7.649	(2.506-12.792)		1466714	149.6	
A 29 C9-C25	7.867	(2.506-13.228)		1877295	191.5	
A 54 C10-C23	8.045	(3.751-12.339)		1107025	113.0	
A 4 C10-C24	8.271	(3.751-12.792)		1459365	148.9	
A 16 C10-C25	8.489	(3.751-13.228)		1869946	190.8	
45 Hexadecane	8.575	8.562	0.013	15999	NC	
A 14 C10-C26	8.699	(3.751-13.647)		1869946	190.8	M
A 67 C12-C22	8.769	(5.670-11.868)		762007	77.7	
A 12 Unknown Hydrocarbons	9.097	(3.751-14.444)		2650374	NC	M
A 32 C10-C28	9.097	(3.751-14.444)		2650374	270.4	M
A 5 Diesel	9.097	(3.751-14.444)		2650374	270.4	M
A 30 C13-C22	9.171	(6.474-11.868)		746812	76.2	
44 Heptadecane	9.231	9.199	0.032	28586	NC	
A 31 C12-C24	9.231	(5.670-12.792)		1447213	147.7	
49 n-Octadecane	9.699	9.792	-0.093	32901	NC	
A 9 Crude Oil Range Organics (	9.837	(2.506-17.168)		6229666	NC	
A 52 Mineral oil	9.837	(2.506-17.168)		6229666	542.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.837	(2.506-17.168)		5353956	NC	M
33 C19	10.366	10.329	0.037	117912	NC	
A 64 C13-C28	10.459	(6.474-14.444)		2623027	267.6	M
A 17 C10-C36	10.460	(3.751-17.168)		5346607	545.5	M
A 13 C9-C40	10.590	(2.506-18.674)		7430056	903.5	
A 68 Crude Oil Range Organics (	10.590	(2.506-18.674)		7430056	NC	
A 58 C16-C24	10.677	(8.562-12.792)		1335111	136.2	
61 icosane		10.865			ND	
A 6 C10-C40	11.212	(3.751-18.674)		7420179	902.6	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.868			ND	
A 18 C12-C40	12.172	(5.670-18.674)		7379468	897.9	
36 Tricosane		12.339			ND	
A 66 C13-C40	12.574	(6.474-18.674)		7343409	893.4	
37 n-Tetracosane		12.792			ND	
A 2 C16-C36 ORO	12.865	(8.562-17.168)		5978907	787.8	
38 C25		13.228			ND	
A 19 C16-C40	13.618	(8.562-18.674)		7179297	873.2	
46 n-Hexacosane		13.647			ND	
A 20 C19-C36	13.749	(10.329-17.168)		5063461	586.8	
A 55 C23-C32	14.113	(12.339-15.888)		3479860	731.8	
39 n-Octacosane		14.444			ND	
65 C29	14.380	14.823	-0.443	780428	NC	M
A 7 Motor Oil	14.980	(12.792-17.168)		4061835	666.7	
A 40 C24-C36	14.980	(12.792-17.168)		4061835	666.7	
A 50 C25-C36	15.198	(13.228-17.168)		3774112	652.3	
A 10 C22-C40	15.271	(11.868-18.674)		5623370	672.6	
A 41 C23-C40	15.506	(12.339-18.674)		5385637	656.7	
A 8 C24-C40	15.733	(12.792-18.674)		5128278	644.6	
56 Dotriacontane		15.888			ND	
A 51 C28-C40	16.559	(14.444-18.674)		3820445	616.9	
A 63 C29-C40	16.748	(14.823-18.674)		3409599	606.4	
42 n-Hexatriacontane		17.168			ND	
43 C40		18.674			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

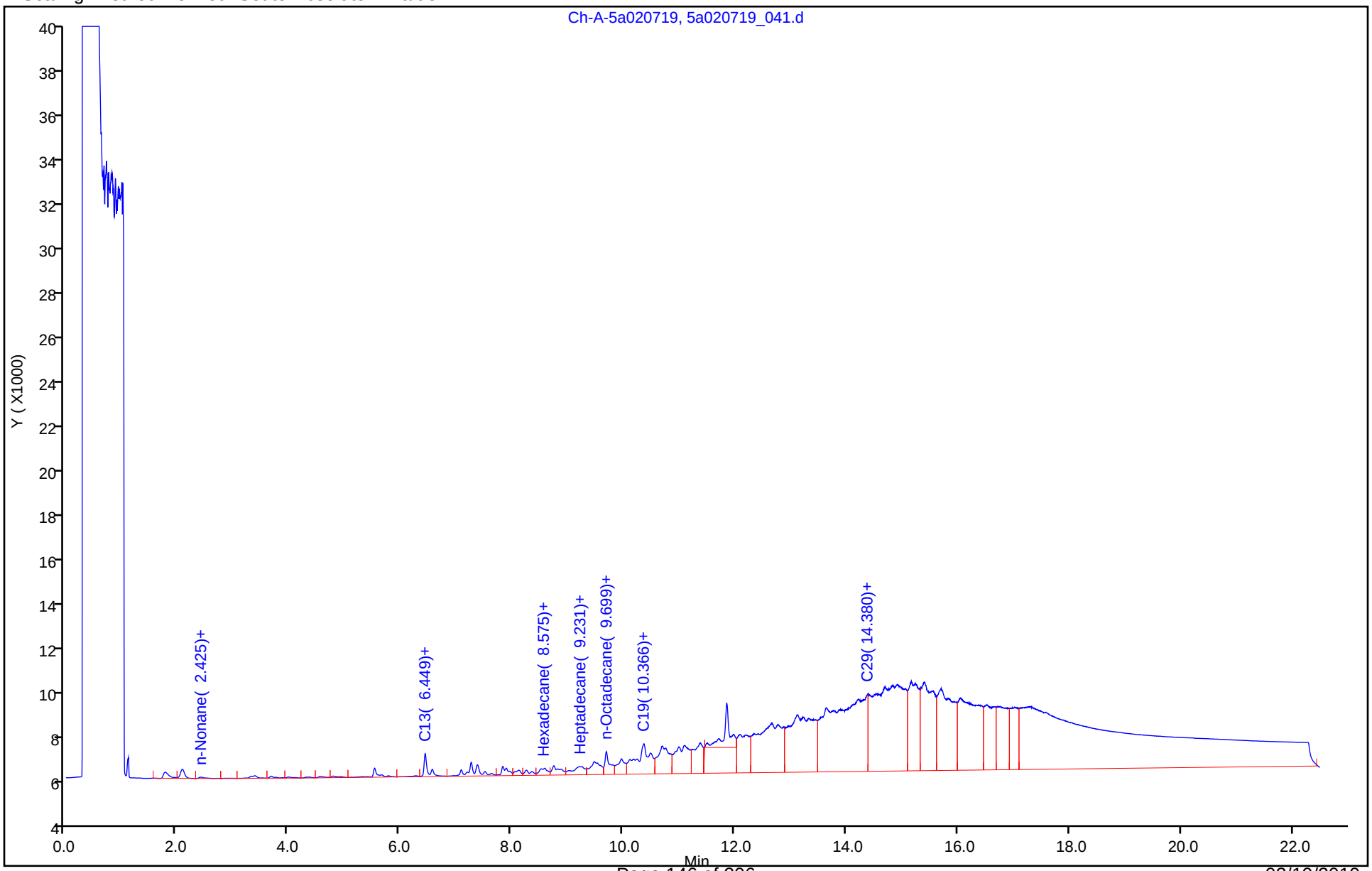
Report Date: 08-Feb-2019 12:28:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_041.d

Injection Date:	08-Feb-2019 03:29:44	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-22-D	Lab Sample ID:	720-91048-22	Worklist Smp#:	41
Client ID:	DG-R13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

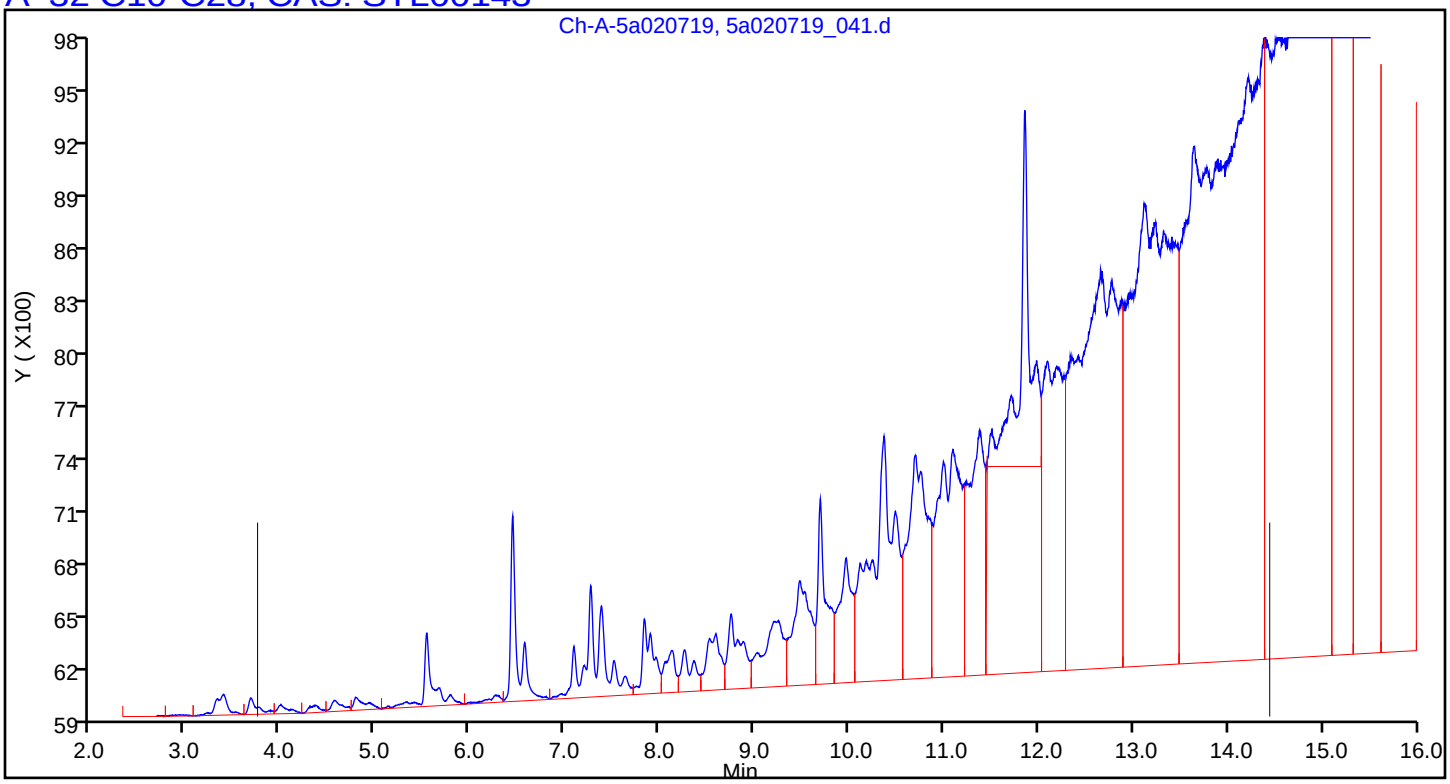


Report Date: 08-Feb-2019 12:28:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_041.d				
Injection Date:	08-Feb-2019 03:29:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-22-D	Lab Sample ID:	720-91048-22		
Client ID:	DG-R13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

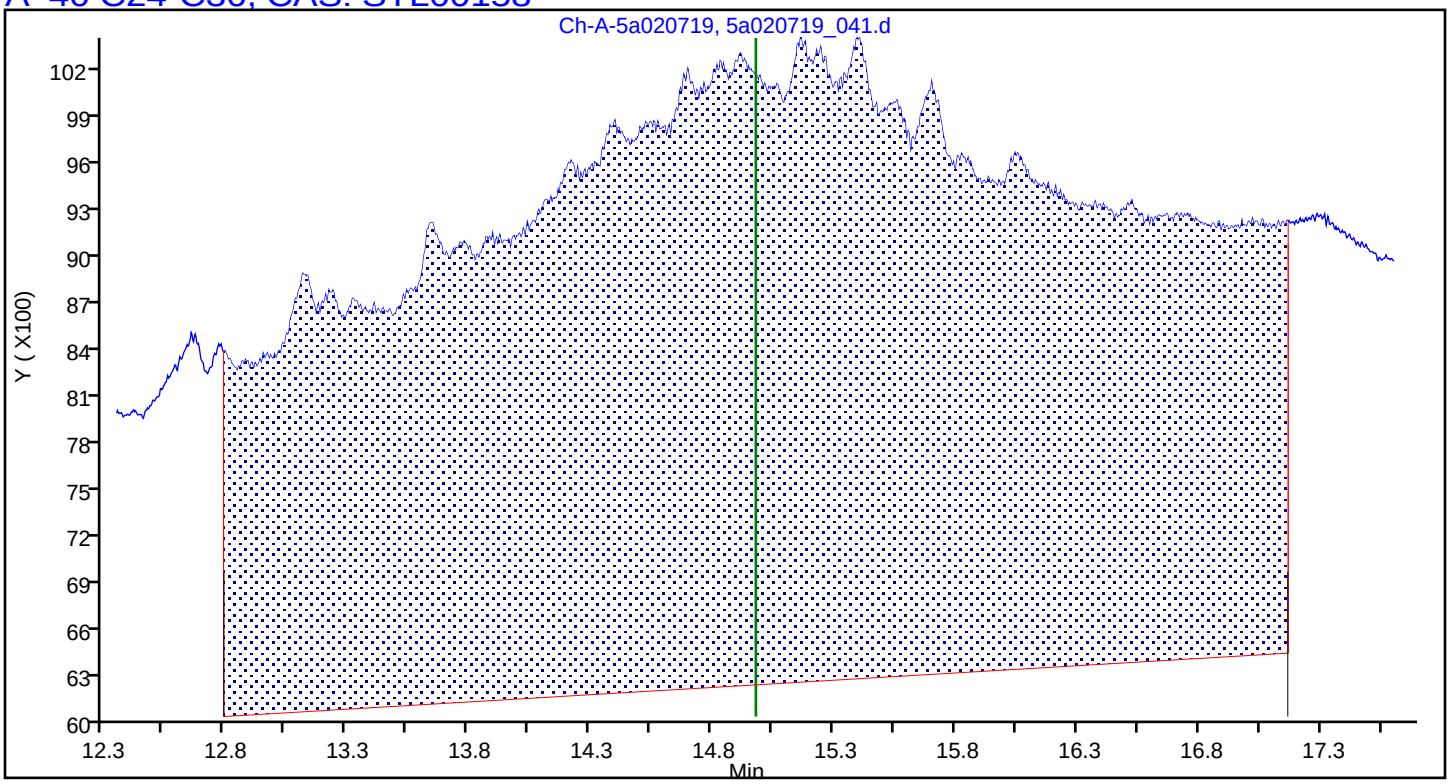


Report Date: 08-Feb-2019 12:28:17 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_041.d				
Injection Date:	08-Feb-2019 03:29:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-22-D	Lab Sample ID:	720-91048-22		
Client ID:	DG-R13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

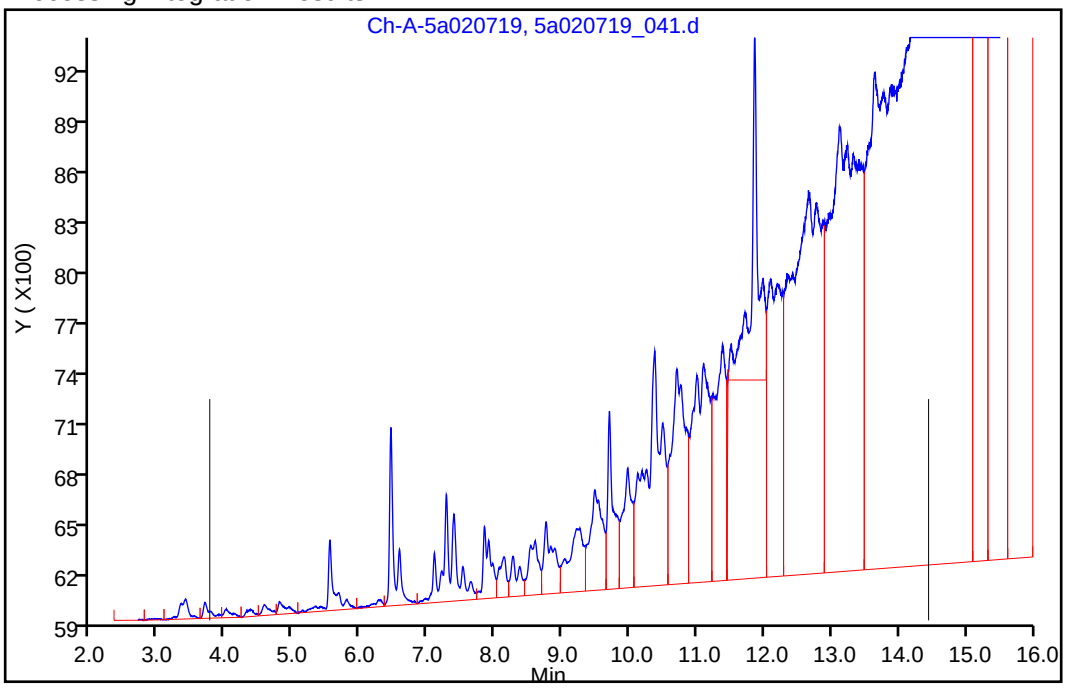
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_041.d				
Injection Date:	08-Feb-2019 03:29:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-22-D	Lab Sample ID:	720-91048-22		
Client ID:	DG-R13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

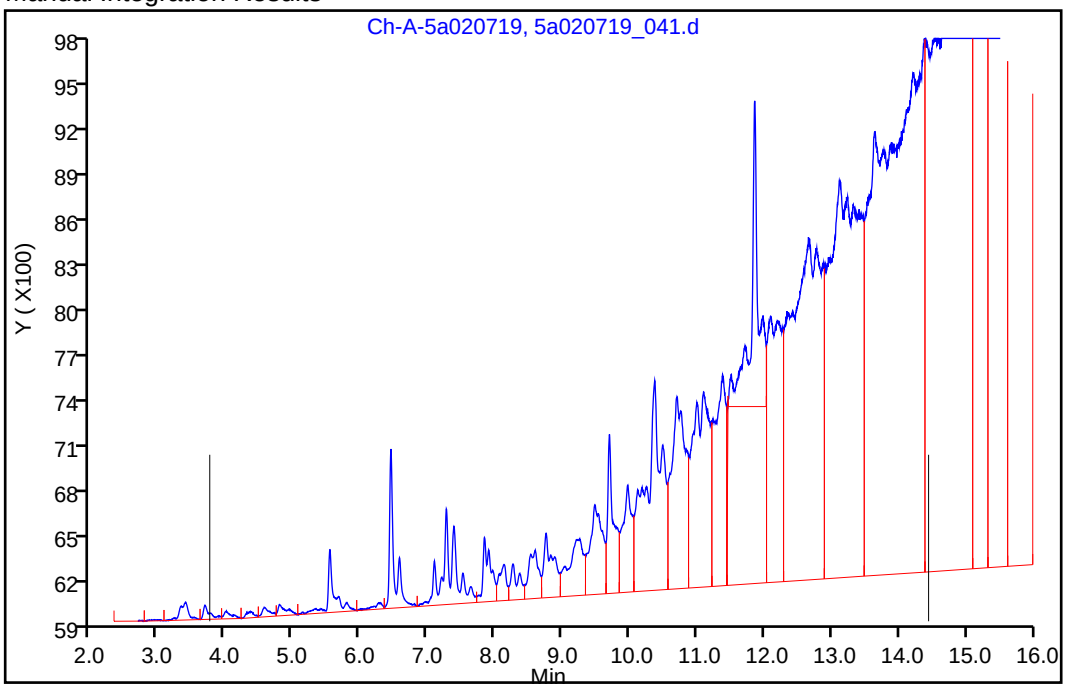
Processing Integration Results

RT: 9.10
Response: 1792022
Amount: 182.8405



Manual Integration Results

RT: 9.10
Response: 2650374
Amount: 270.4184



Reviewer: luj, 08-Feb-2019 12:28:03

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

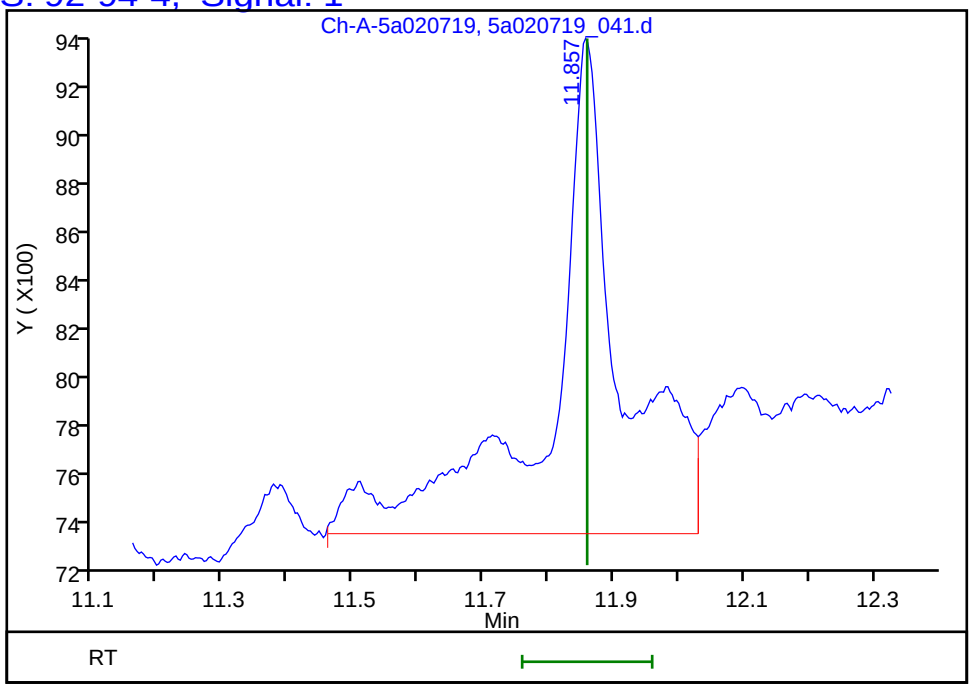
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56483.b\5a020719_041.d

Injection Date:	08-Feb-2019 03:29:44	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-22-D	Lab Sample ID:	720-91048-22		
Client ID:	DG-R13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 77924
Amount: 6.534555



Reviewer: luj, 08-Feb-2019 12:28:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_018.d
Lims ID: 720-91048-E-23-D
Client ID: DUP-108
Sample Type: Client
Inject. Date: 09-Feb-2019 18:50:23 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 007 Name: 720-0056518-018
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:05:44 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:05:44

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.514	2.508	0.006	422	NC	
	23 n-Decane	3.769	3.750	0.019	87593	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		105981	NC	
A	1 C9-C13	4.489	(2.508-6.469)		105981	NC	
A	57 C10-C12	4.708	(3.750-5.666)		101751	10.4	
	24 Dodecane		5.666			ND	
A	3 C9 - C17	5.850	(2.508-9.191)		128181	10.6	M
A	47 C9 - C18	6.145	(2.508-9.782)		128181	11.9	M
A	60 C10-C16	6.153	(3.750-8.556)		117127	10.6	M
A	25 C9-C19	6.415	(2.508-10.322)		128181	10.5	M
A	15 Kerosene	6.415	(2.508-10.322)		128181	11.9	M
	26 C13	6.447	6.469	-0.022	811	NC	
A	59 C12-C16	7.111	(5.666-8.556)		15376	1.57	M
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		211817	21.6	M
A	28 C9-C24	7.646	(2.508-12.785)		440546	44.9	M
A	29 C9-C25	7.864	(2.508-13.221)		440546	44.9	M
A	54 C10-C23	8.041	(3.750-12.332)		438410	44.7	M
A	4 C10-C24	8.267	(3.750-12.785)		438410	44.7	M
A	16 C10-C25	8.485	(3.750-13.221)		438410	44.7	M
	45 Hexadecane		8.556			ND	
A	14 C10-C26	8.695	(3.750-13.641)		438410	44.7	M
A	67 C12-C22	8.763	(5.666-11.861)		249028	25.4	M
A	5 Diesel	9.094	(3.750-14.438)		1886022	192.4	M
A	32 C10-C28	9.094	(3.750-14.438)		1886022	192.4	M
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		1886022	NC	M
A	30 C13-C22	9.165	(6.469-11.861)		247745	25.3	M
	44 Heptadecane		9.191			ND	
A	31 C12-C24	9.226	(5.666-12.785)		336659	34.3	M
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		4133276	NC	M
A	52 Mineral oil	9.835	(2.508-17.162)		7357291	640.5	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		7357291	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		1782988	181.9	M
A 17 C10-C36	10.456	(3.750-17.162)		4131140	421.5	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		10450237	NC	
A 13 C9-C40	10.586	(2.508-18.664)		10450237	1288.5	
A 58 C16-C24	10.670	(8.556-12.785)		321283	32.8	M
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		10430654	1286.2	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		10331262	1273.9	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		10319519	1272.6	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		7169297	944.6	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		10262243	1266.2	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		6439509	746.3	
A 55 C23-C32	14.107	(12.332-15.882)		3978860	836.7	
39 n-Octacosane		14.438			ND	
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		6032215	990.2	M
A 7 Motor Oil	14.973	(12.785-17.162)		6005258	985.7	
A 50 C25-C36	15.191	(13.221-17.162)		5799176	1002.4	
A 10 C22-C40	15.262	(11.861-18.664)		9244351	1105.8	
A 41 C23-C40	15.498	(12.332-18.664)		9119490	1112.0	
A 8 C24-C40	15.724	(12.785-18.664)		8964104	1126.8	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		7751669	1413.2	
A 63 C29-C40	16.740	(14.816-18.664)		7240128	1498.7	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

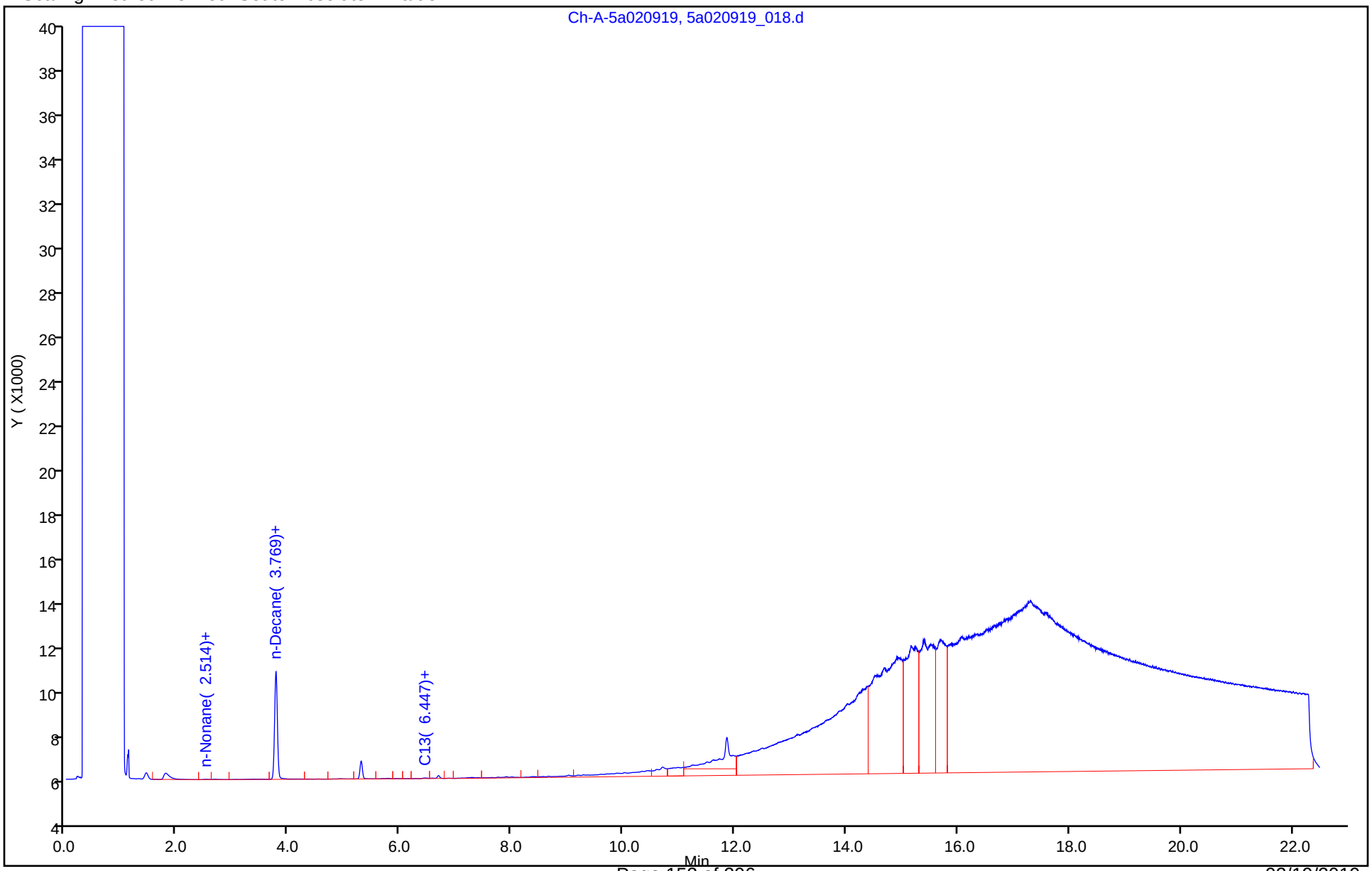
Report Date: 11-Feb-2019 12:05:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_018.d

Injection Date:	09-Feb-2019 18:50:23	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-23-D	Lab Sample ID:	720-91048-23	Worklist Smp#:	18
Client ID:	DUP-108				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

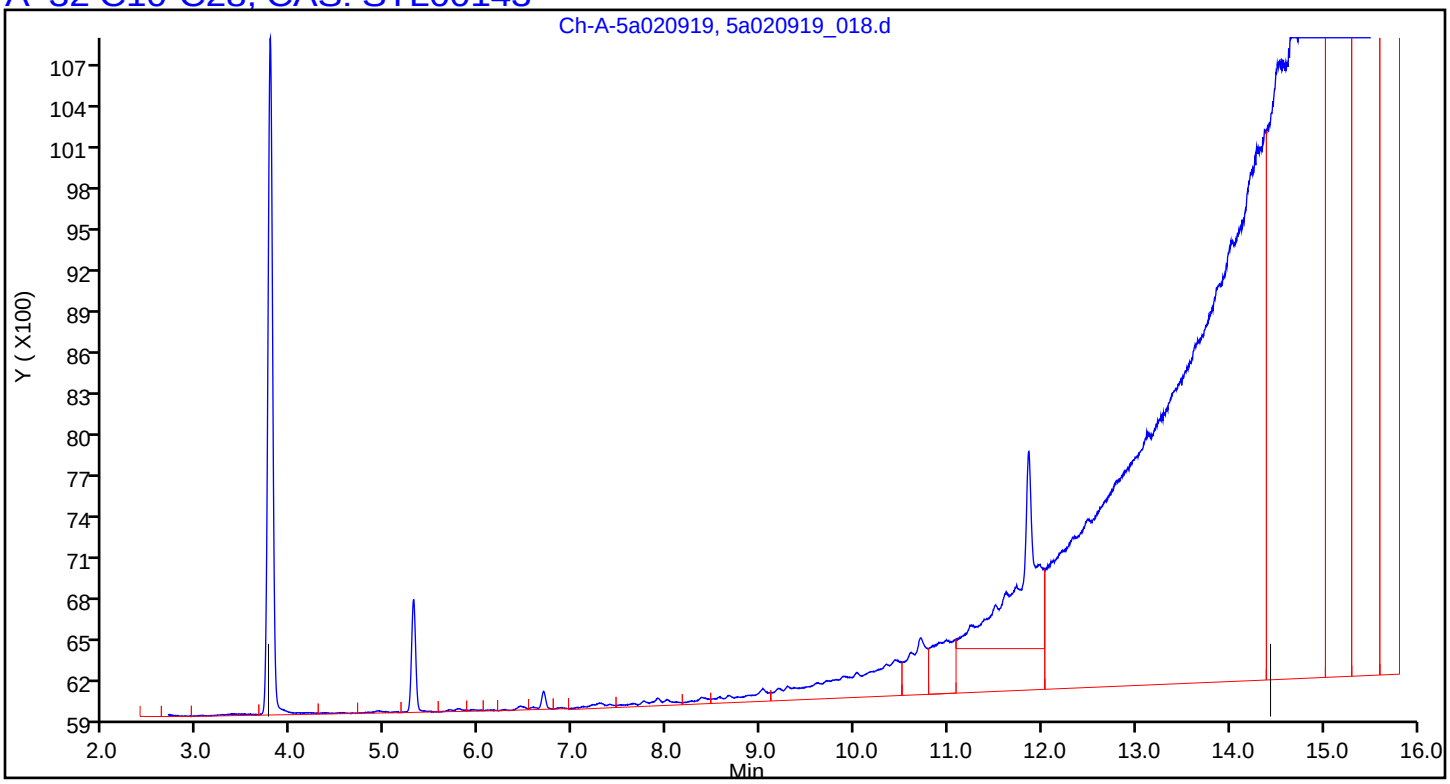


Report Date: 11-Feb-2019 12:05:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_018.d				
Injection Date:	09-Feb-2019 18:50:23	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-23-D	Lab Sample ID:	720-91048-23		
Client ID:	DUP-108				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

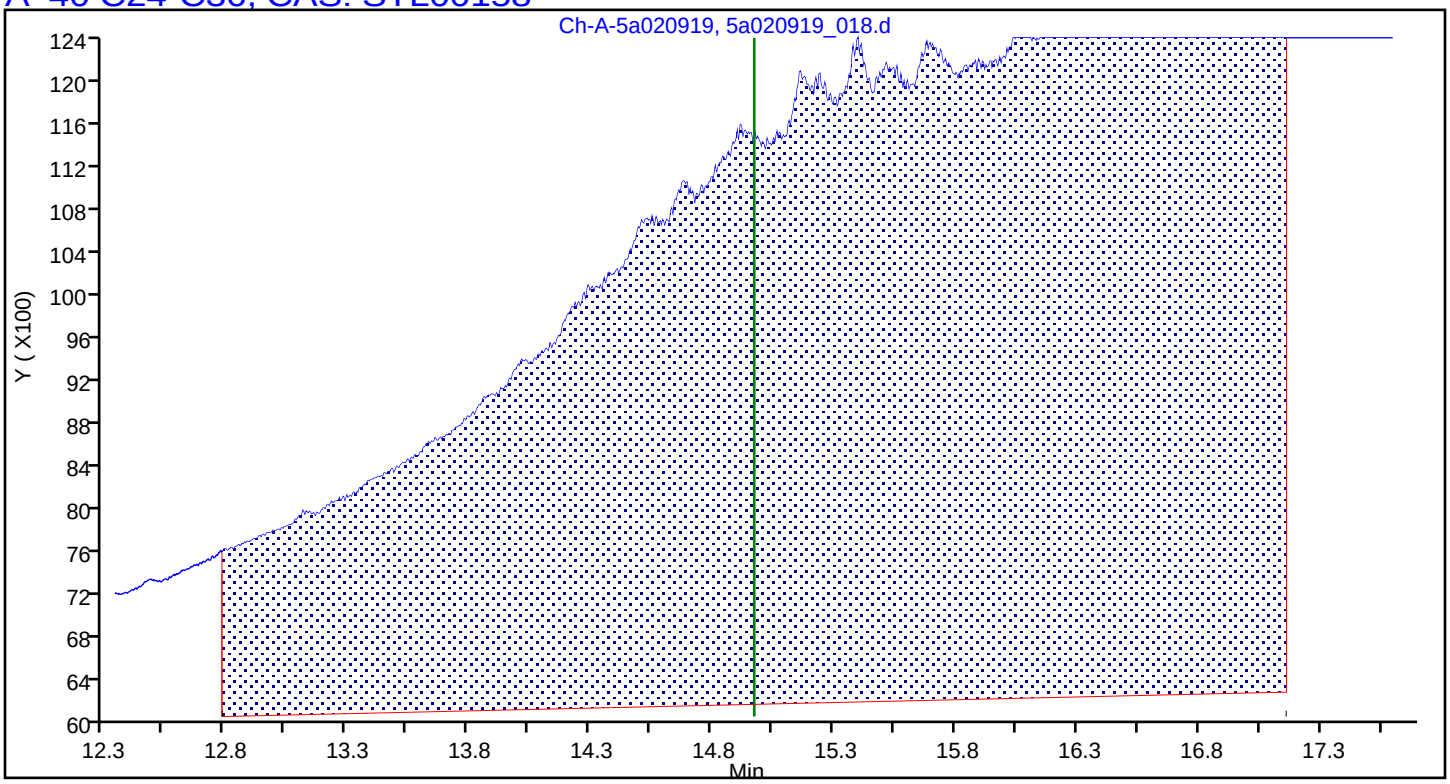


Report Date: 11-Feb-2019 12:05:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_018.d				
Injection Date:	09-Feb-2019 18:50:23	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-23-D	Lab Sample ID:	720-91048-23		
Client ID:	DUP-108				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

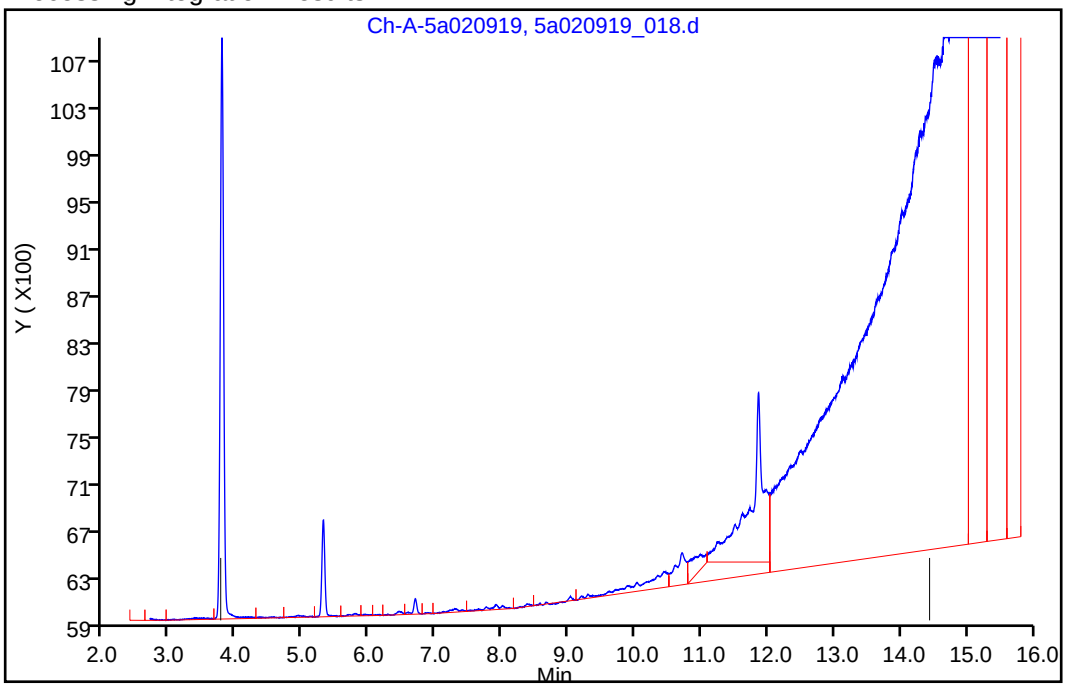
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Injection Date:	09-Feb-2019 18:50:23	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-23-D	Lab Sample ID:	720-91048-23		
Client ID:	DUP-108				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

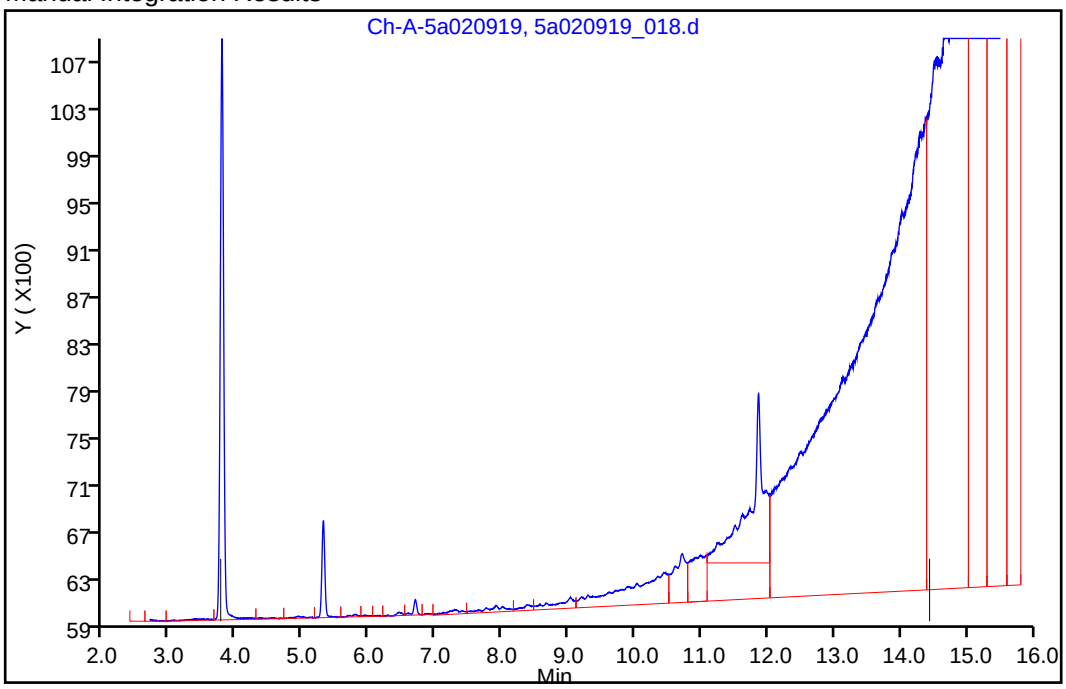
Processing Integration Results

RT: 9.09
Response: 210671
Amount: 21.494819



Manual Integration Results

RT: 9.09
Response: 1886022
Amount: 192.4313



Reviewer: hayashid, 11-Feb-2019 12:05:29

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

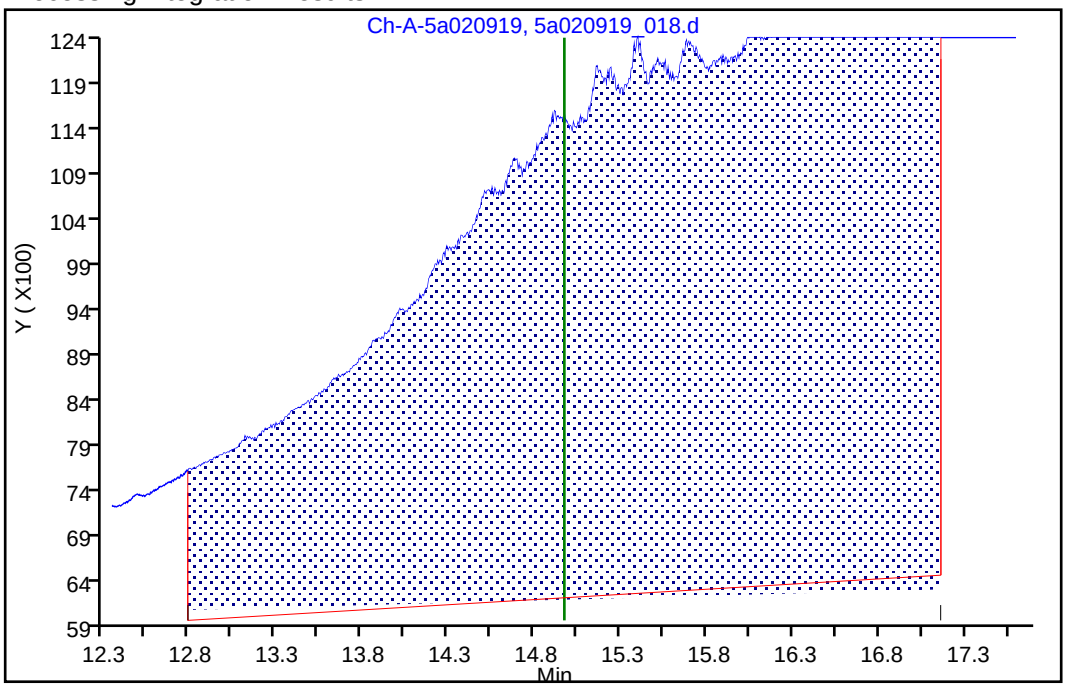
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_018.d				
Injection Date:	09-Feb-2019 18:50:23	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-23-D	Lab Sample ID:	720-91048-23		
Client ID:	DUP-108				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.973, CAS: STL00158

Signal: 1

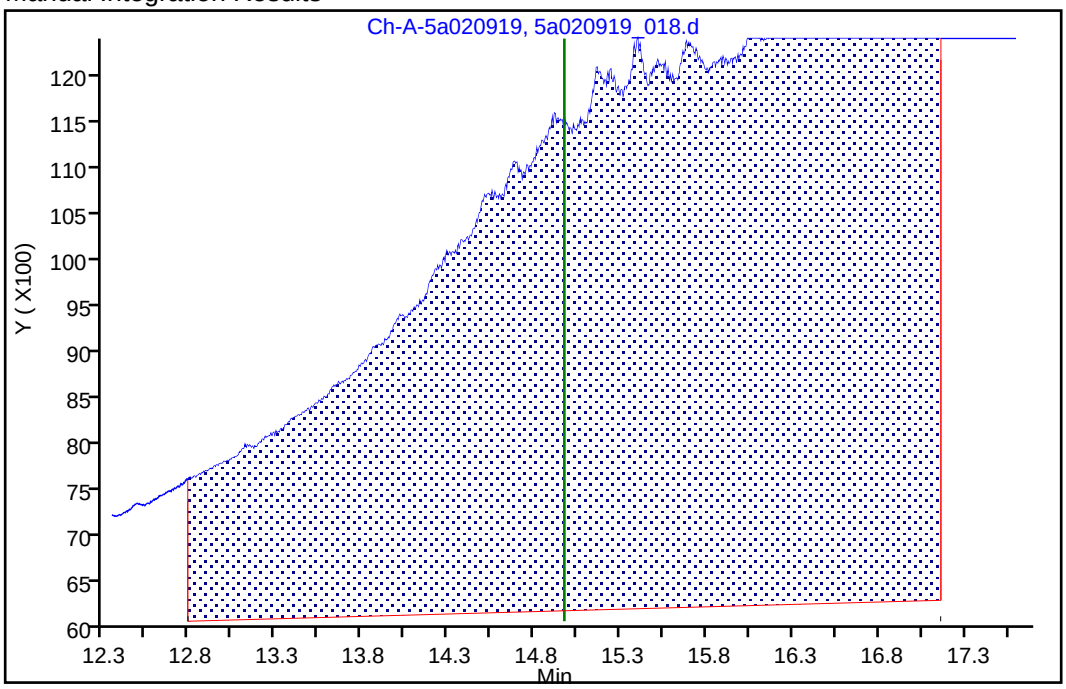
Processing Integration Results

RT: 14.97
Response: 6005258
Amount: 985.7427



Manual Integration Results

RT: 14.97
Response: 6032215
Amount: 990.1676



Reviewer: hayashid, 11-Feb-2019 12:05:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

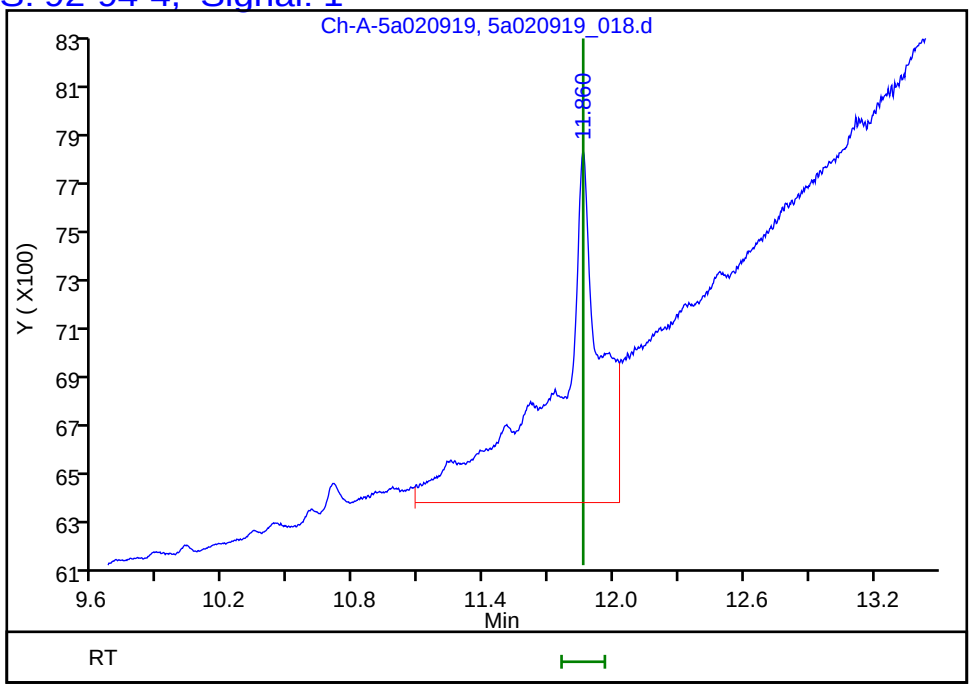
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_018.d

Injection Date:	09-Feb-2019 18:50:23	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-23-D	Lab Sample ID:	720-91048-23		
Client ID:	DUP-108				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 106657
Amount: 8.944048



Reviewer: hayashid, 11-Feb-2019 12:05:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_016.d
Lims ID: 720-91048-E-24-D
Client ID: DUP-121
Sample Type: Client
Inject. Date: 08-Feb-2019 15:27:40 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 006 Name: 720-0056502-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 11:07:18 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 11:07:18

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.506			ND	
	23 n-Decane	3.760	3.751	0.009	32531	NC	M
A	1 C9-C13	4.490	(2.506-6.473)		534613	NC	M
A	21 Stoddard Solvent	4.490	(2.506-6.473)		534613	NC	M
A	57 C10-C12	4.711	(3.751-5.670)		428647	43.7	M
	24 Dodecane	5.620	5.670	-0.050	80826	NC	M
A	3 C9 - C17	5.852	(2.506-9.198)		1354241	111.7	M
A	47 C9 - C18	6.149	(2.506-9.791)		1822249	169.3	M
A	60 C10-C16	6.156	(3.751-8.562)		1193722	108.3	M
A	15 Kerosene	6.417	(2.506-10.328)		2008299	186.2	M
A	25 C9-C19	6.417	(2.506-10.328)		2008299	164.5	M
	26 C13	6.490	6.473	0.017	63060	NC	M
A	59 C12-C16	7.116	(5.670-8.562)		845901	86.3	M
$	27 n-Decanoic Acid (Surr)		7.139			ND	U
A	62 C10-C20	7.307	(3.751-10.864)		2516148	256.7	M
A	28 C9-C24	7.648	(2.506-12.791)		4407186	449.7	M
A	29 C9-C25	7.866	(2.506-13.226)		5278941	538.6	M
A	54 C10-C23	8.044	(3.751-12.338)		3798925	387.6	M
A	4 C10-C24	8.271	(3.751-12.791)		4370236	445.9	M
A	16 C10-C25	8.489	(3.751-13.226)		5241991	534.8	M
	45 Hexadecane	8.503	8.562	-0.059	89311	NC	M
A	14 C10-C26	8.699	(3.751-13.646)		5484954	559.6	M
A	67 C12-C22	8.768	(5.670-11.867)		3032875	309.4	M
A	12 Unknown Hydrocarbons	9.097	(3.751-14.443)		6310848	NC	M
A	32 C10-C28	9.097	(3.751-14.443)		6310848	643.9	M
A	5 Diesel	9.097	(3.751-14.443)		6310848	643.9	M
A	30 C13-C22	9.170	(6.473-11.867)		2883033	294.2	M
	44 Heptadecane	9.207	9.198	0.009	284912	NC	M
A	31 C12-C24	9.230	(5.670-12.791)		4022415	410.4	M
	49 n-Octadecane		9.791			ND	
A	9 Crude Oil Range Organics (	9.836	(2.506-17.167)		9307782	NC	
A	52 Mineral oil	9.836	(2.506-17.167)		9307782	810.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		9559390	NC	M
33 C19	10.330	10.328	0.002	110755	NC	M
A 64 C13-C28	10.458	(6.473-14.443)		5813185	593.1	M
A 17 C10-C36	10.459	(3.751-17.167)		9522440	971.6	M
A 13 C9-C40	10.588	(2.506-18.671)		10202326	1256.9	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		10202326	NC	
A 58 C16-C24	10.676	(8.562-12.791)		3265825	333.2	M
61 icosane		10.864			ND	
A 6 C10-C40	11.211	(3.751-18.671)		10169347	1252.9	
$ 34 p-Terphenyl		11.859			ND	
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		9754476	1200.4	
36 Tricosane	12.340	12.338	0.002	306738	NC	M
A 66 C13-C40	12.572	(6.473-18.671)		9626414	1184.3	
37 n-Tetracosane	12.843	12.791	0.052	233353	NC	M
A 2 C16-C36 ORO	12.864	(8.562-17.167)		8034269	1058.6	
38 C25	13.217	13.226	-0.009	307491	NC	M
A 19 C16-C40	13.616	(8.562-18.671)		8928813	1096.2	
46 n-Hexacosane		13.646			ND	
A 20 C19-C36	13.747	(10.328-17.167)		6354565	736.5	
A 55 C23-C32	14.112	(12.338-15.887)		3605439	758.2	
39 n-Octacosane	14.353	14.443	-0.090	374041	NC	M
65 C29	14.820	14.821	-0.001	320590	NC	M
A 7 Motor Oil	14.979	(12.791-17.167)		4101140	673.2	
A 40 C24-C36	14.979	(12.791-17.167)		4251593	697.9	M
A 50 C25-C36	15.196	(13.226-17.167)		3547798	613.2	
A 10 C22-C40	15.269	(11.867-18.671)		5732423	685.7	
A 41 C23-C40	15.504	(12.338-18.671)		5267045	642.2	
A 8 C24-C40	15.731	(12.791-18.671)		4834226	607.7	
56 Dotriacontane	15.840	15.887	-0.047	195369	NC	M
A 51 C28-C40	16.557	(14.443-18.671)		3183788	503.5	
A 63 C29-C40	16.746	(14.821-18.671)		2885082	502.2	
42 n-Hexatriacontane		17.167			ND	
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

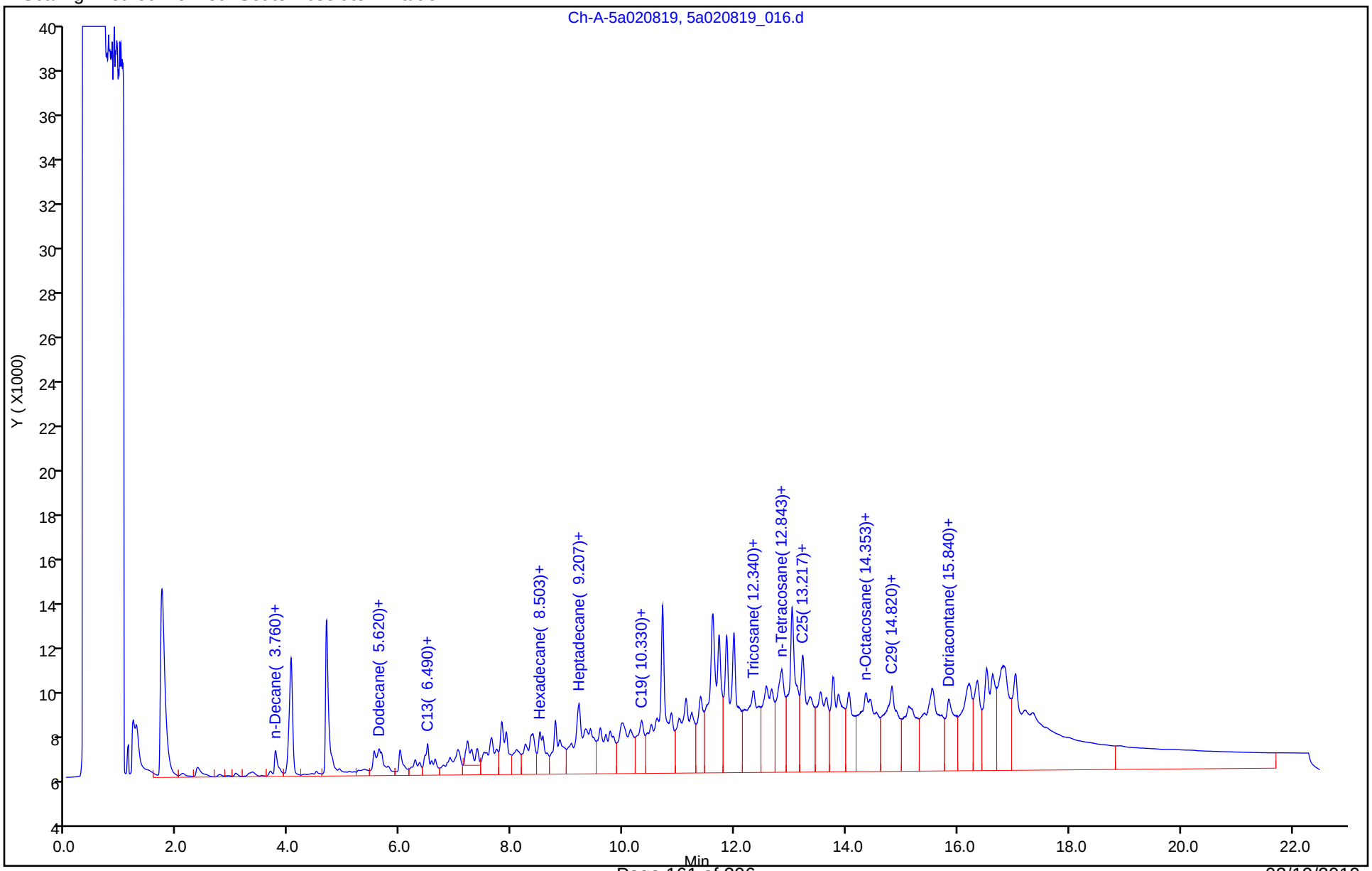
Report Date: 11-Feb-2019 11:07:19 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_016.d

Injection Date:	08-Feb-2019 15:27:40	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-24-D	Lab Sample ID:	720-91048-24	Worklist Smp#:	16
Client ID:	DUP-121				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

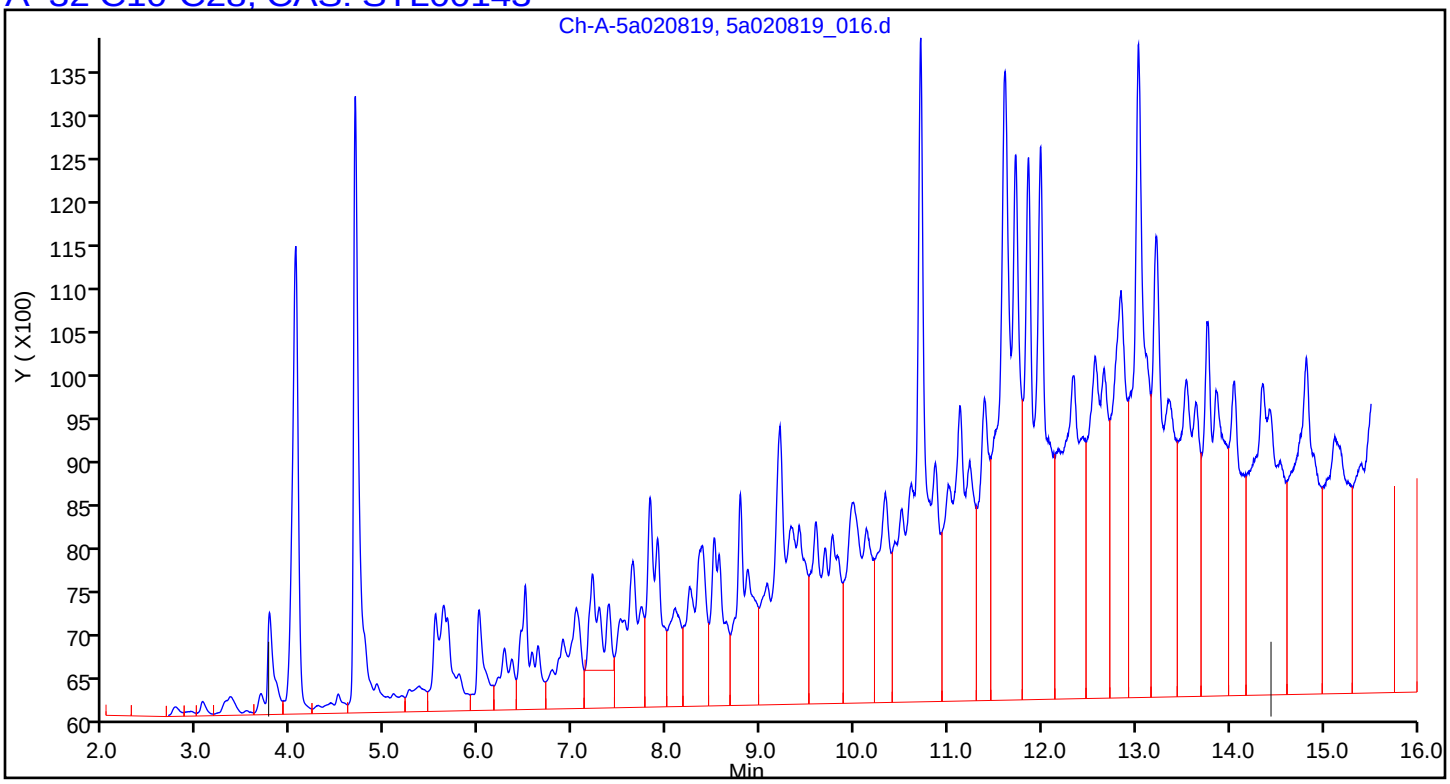


Report Date: 11-Feb-2019 11:07:20 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_016.d				
Injection Date:	08-Feb-2019 15:27:40	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-24-D	Lab Sample ID:	720-91048-24		
Client ID:	DUP-121				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

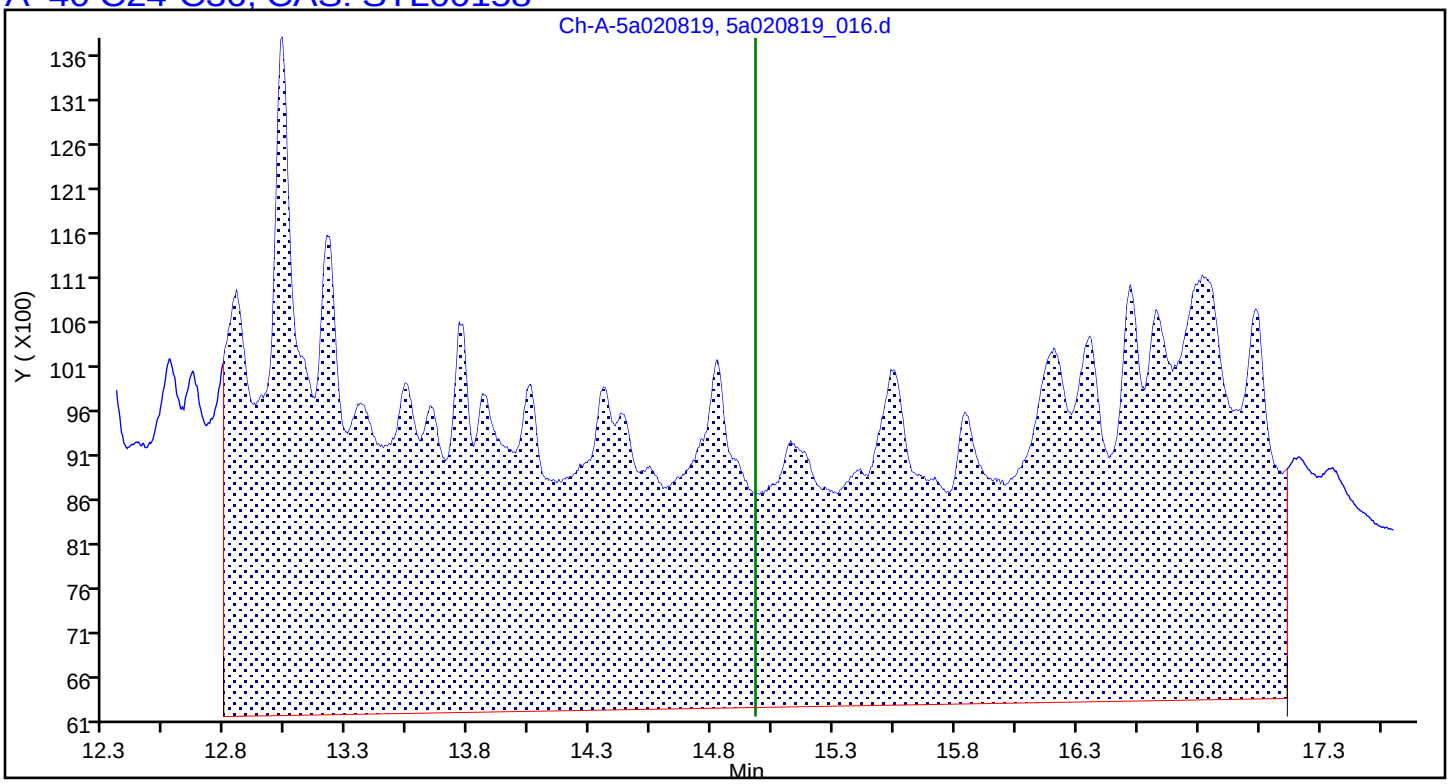


Report Date: 11-Feb-2019 11:07:21 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_016.d				
Injection Date:	08-Feb-2019 15:27:40	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-24-D	Lab Sample ID:	720-91048-24		
Client ID:	DUP-121				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

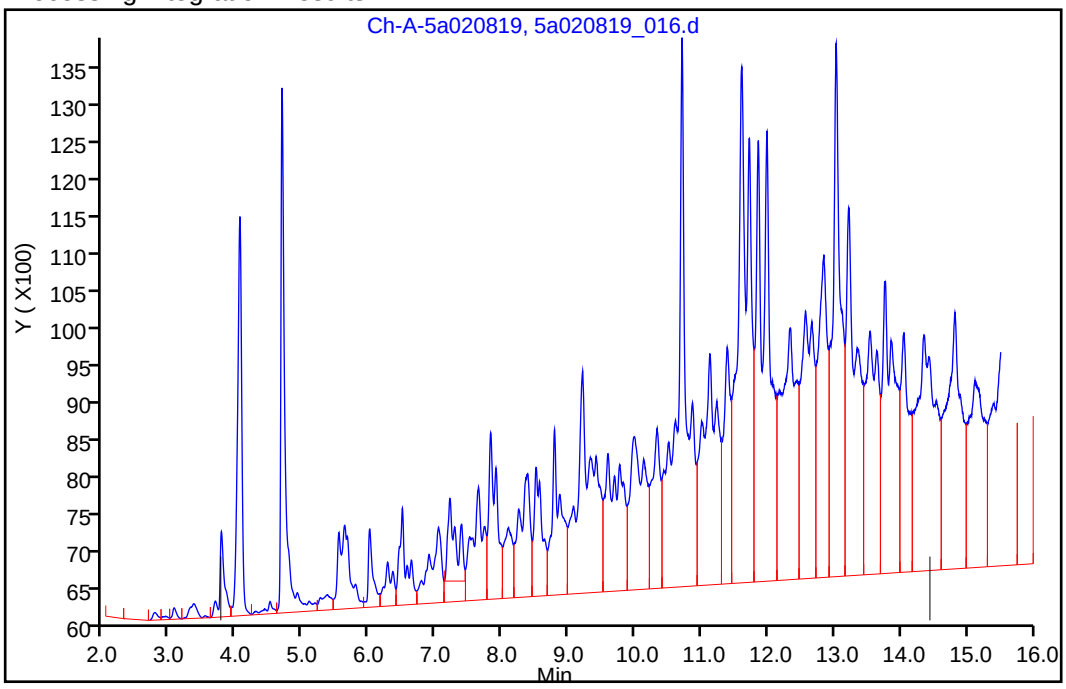
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Injection Date:	08-Feb-2019 15:27:40	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-24-D	Lab Sample ID:	720-91048-24		
Client ID:	DUP-121				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

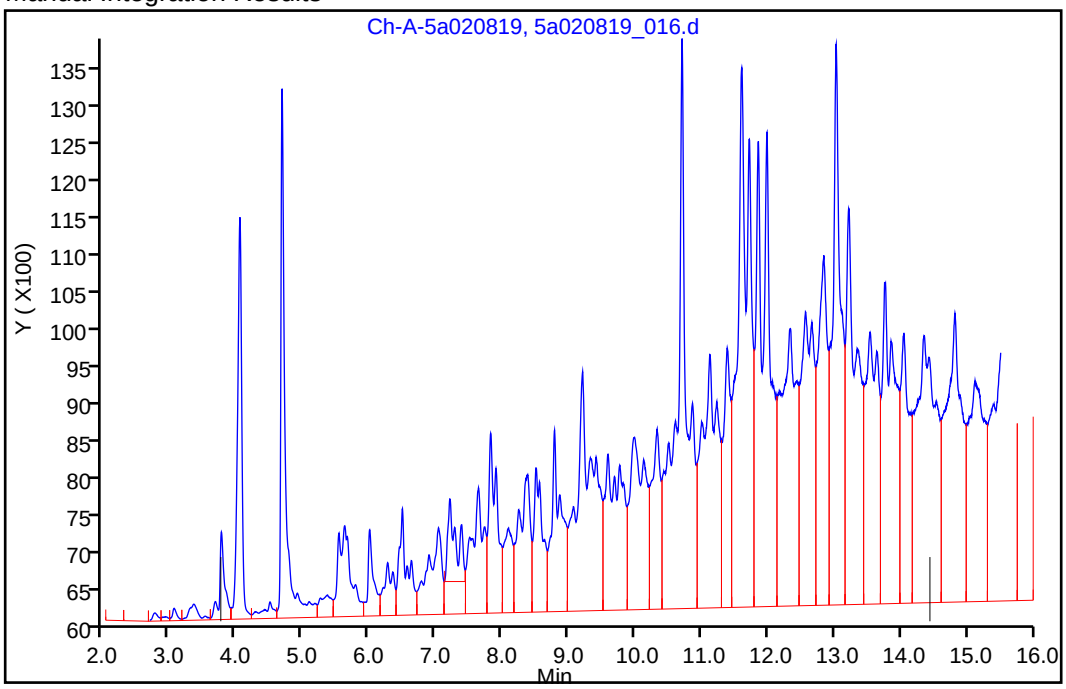
Processing Integration Results

RT: 9.10
Response: 5458467
Amount: 556.9289



Manual Integration Results

RT: 9.10
Response: 6310848
Amount: 643.8975



Reviewer: hayashid, 11-Feb-2019 11:06:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

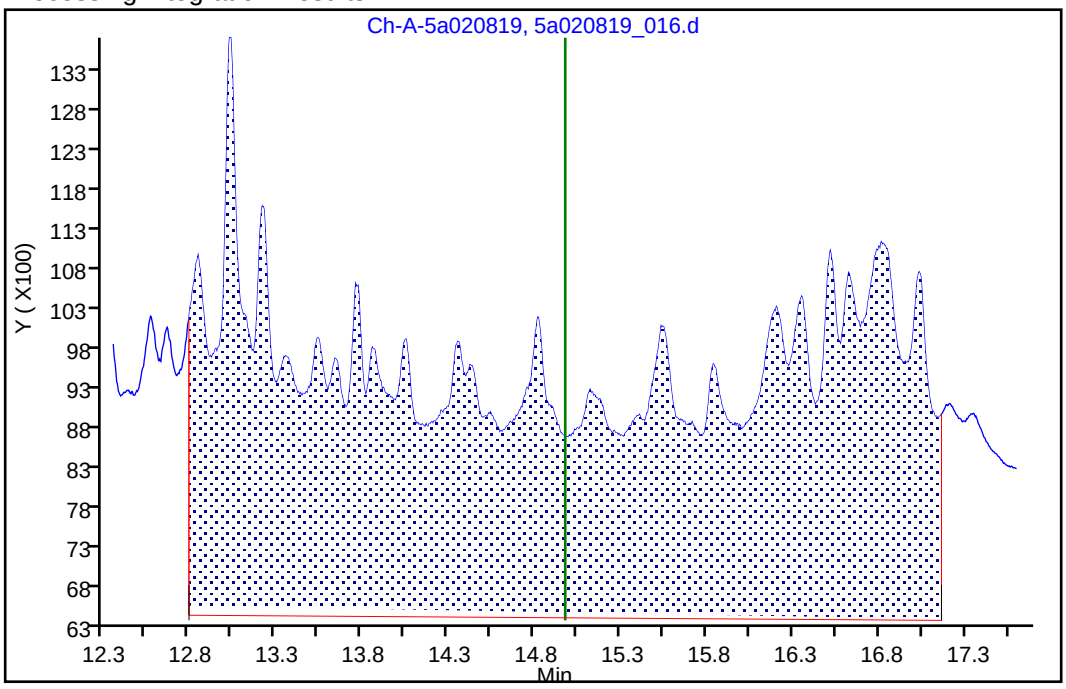
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_016.d				
Injection Date:	08-Feb-2019 15:27:40	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-24-D	Lab Sample ID:	720-91048-24		
Client ID:	DUP-121				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.979, CAS: STL00158

Signal: 1

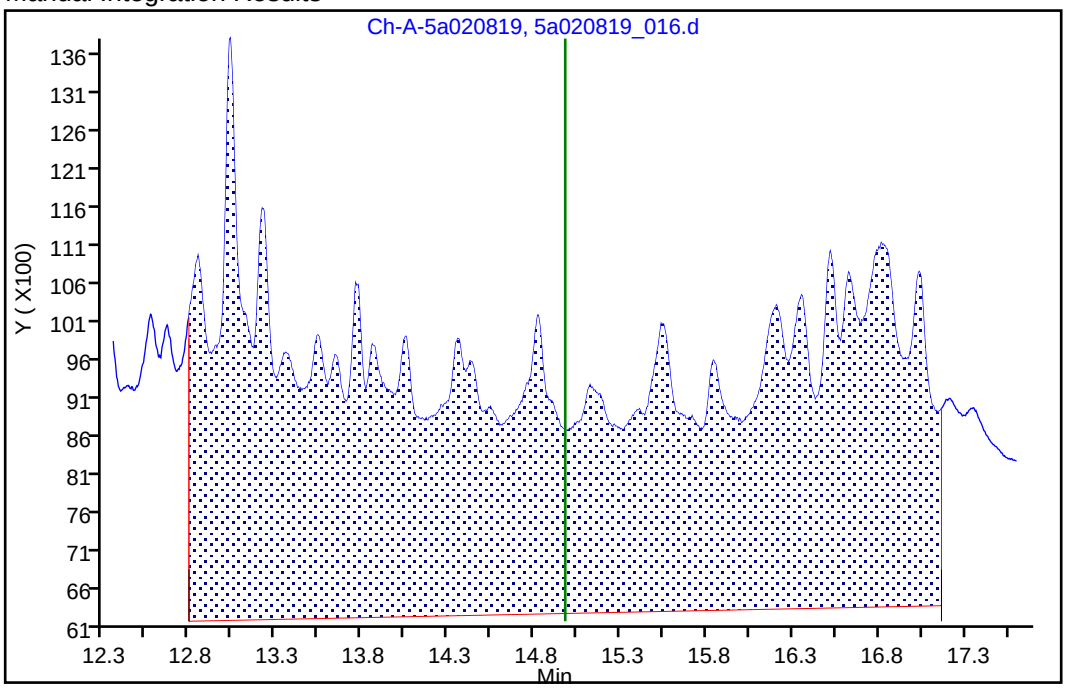
Processing Integration Results

RT: 14.98
Response: 4101140
Amount: 673.1882



Manual Integration Results

RT: 14.98
Response: 4251593
Amount: 697.8845



Reviewer: hayashid, 11-Feb-2019 11:07:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_012.d
Lims ID: 720-91048-E-25-D
Client ID: DG-R13S-3.5-4
Sample Type: Client
Inject. Date: 08-Feb-2019 13:29:55 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 042 Name: 720-0056502-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:36:25 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 11:05:23

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.453	2.506	-0.053	5617	NC	
	23 n-Decane		3.751			ND	
A	1 C9-C13	4.490	(2.506-6.473)		82888	NC	
A	21 Stoddard Solvent	4.490	(2.506-6.473)		82888	NC	
A	57 C10-C12	4.711	(3.751-5.670)		33123	3.38	
	24 Dodecane		5.670			ND	
A	3 C9 - C17	5.852	(2.506-9.198)		192434	15.9	
A	47 C9 - C18	6.149	(2.506-9.791)		279379	26.0	
A	60 C10-C16	6.156	(3.751-8.562)		156560	14.2	
A	15 Kerosene	6.417	(2.506-10.328)		302860	28.1	
A	25 C9-C19	6.417	(2.506-10.328)		302860	24.8	
	26 C13	6.449	6.473	-0.024	28788	NC	
A	59 C12-C16	7.116	(5.670-8.562)		136471	13.9	
$	27 n-Decanoic Acid (Surr)		7.139			ND	
A	62 C10-C20	7.307	(3.751-10.864)		451312	46.0	
A	28 C9-C24	7.648	(2.506-12.791)		1002506	102.3	
A	29 C9-C25	7.866	(2.506-13.226)		1002506	102.3	
A	54 C10-C23	8.044	(3.751-12.338)		804508	82.1	
A	4 C10-C24	8.271	(3.751-12.791)		982542	100.2	
A	16 C10-C25	8.489	(3.751-13.226)		982542	100.2	
	45 Hexadecane	8.542	8.562	-0.020	16731	NC	
A	14 C10-C26	8.699	(3.751-13.646)		1198409	122.3	
A	67 C12-C22	8.768	(5.670-11.867)		784419	80.0	
A	12 Unknown Hydrocarbons	9.097	(3.751-14.443)		1809226	NC	
A	32 C10-C28	9.097	(3.751-14.443)		1809226	184.6	
A	5 Diesel	9.097	(3.751-14.443)		1809226	184.6	
A	30 C13-C22	9.170	(6.473-11.867)		770372	78.6	
	44 Heptadecane	9.224	9.198	0.026	28595	NC	
A	31 C12-C24	9.230	(5.670-12.791)		962453	98.2	
	49 n-Octadecane	9.700	9.791	-0.091	29399	NC	
A	9 Crude Oil Range Organics (	9.836	(2.506-17.167)		4127481	NC	
A	52 Mineral oil	9.836	(2.506-17.167)		4127481	359.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		3716468	NC	
33 C19	10.366	10.328	0.038	85391	NC	
A 64 C13-C28	10.458	(6.473-14.443)		1775090	181.1	
A 17 C10-C36	10.459	(3.751-17.167)		3696504	377.2	
A 13 C9-C40	10.588	(2.506-18.671)		5061415	601.6	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		5061415	NC	
A 58 C16-C24	10.676	(8.562-12.791)		842713	86.0	
61 icosane		10.864			ND	
A 6 C10-C40	11.211	(3.751-18.671)		5039956	599.3	
$ 34 p-Terphenyl	11.857	11.859	-0.002	319735	26.8	M
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		5007305	595.6	
36 Tricosane		12.338			ND	
A 66 C13-C40	12.572	(6.473-18.671)		4979538	592.3	
37 n-Tetracosane		12.791			ND	
A 2 C16-C36 ORO	12.864	(8.562-17.167)		3914528	515.8	
38 C25	13.228	13.226	0.002	215867	NC	
A 19 C16-C40	13.616	(8.562-18.671)		4848462	576.1	
46 n-Hexacosane		13.646			ND	
A 20 C19-C36	13.747	(10.328-17.167)		3323858	385.2	
A 55 C23-C32	14.112	(12.338-15.887)		2135598	449.1	
39 n-Octacosane	14.390	14.443	-0.053	255618	NC	
65 C29	14.823	14.821	0.002	319117	NC	
A 7 Motor Oil	14.979	(12.791-17.167)		2722380	446.9	
A 40 C24-C36	14.979	(12.791-17.167)		2722380	446.9	
A 50 C25-C36	15.196	(13.226-17.167)		2563297	443.1	
A 10 C22-C40	15.269	(11.867-18.671)		3623945	433.5	
A 41 C23-C40	15.504	(12.338-18.671)		3716028	453.1	
A 8 C24-C40	15.731	(12.791-18.671)		3575134	449.4	
56 Dotriacontane	15.855	15.887	-0.032	82938	NC	
A 51 C28-C40	16.557	(14.443-18.671)		2811355	438.7	
A 63 C29-C40	16.746	(14.821-18.671)		2562204	439.6	
42 n-Hexatriacontane		17.167			ND	
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

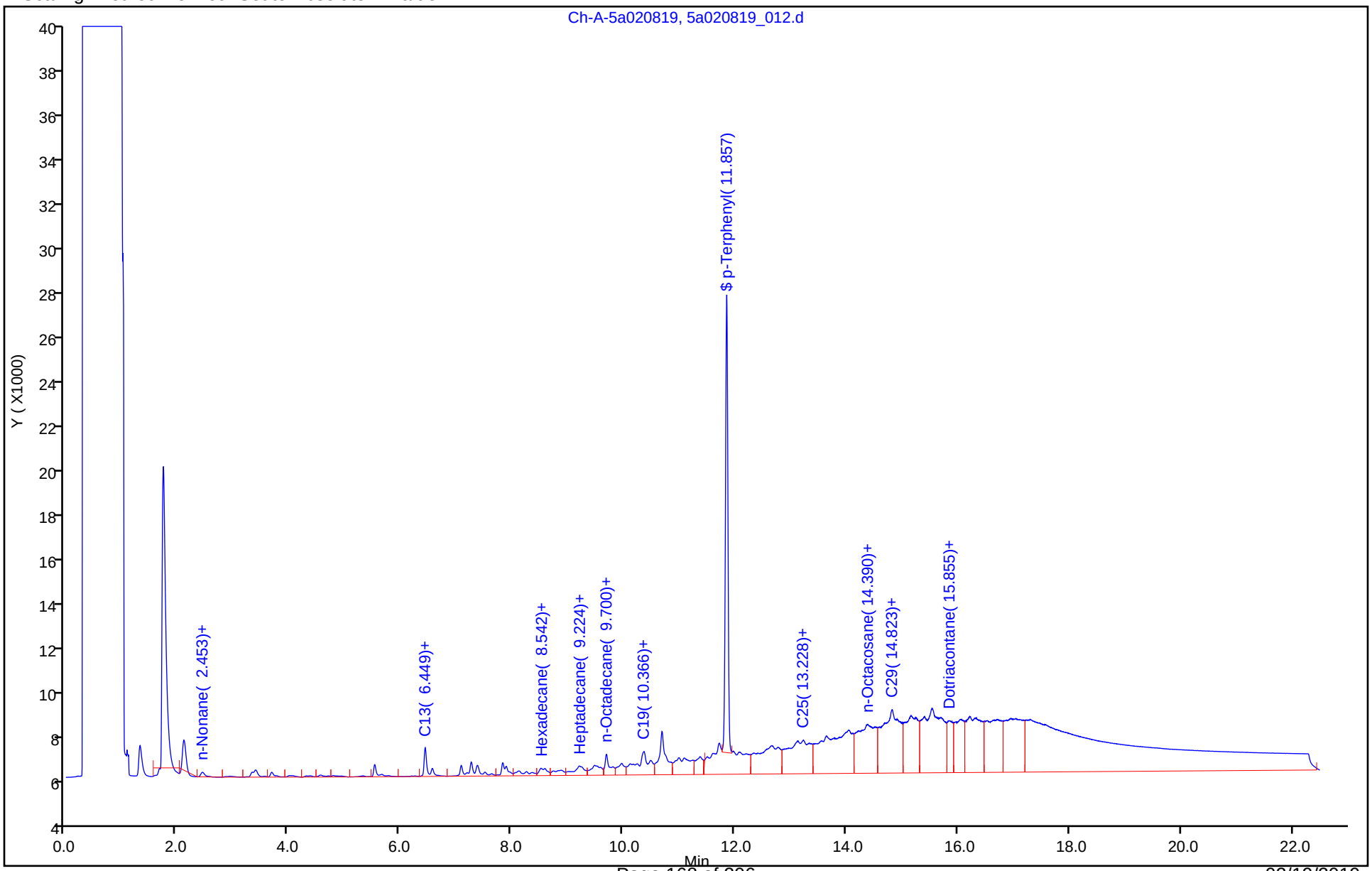
Report Date: 11-Feb-2019 11:05:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_012.d

Injection Date:	08-Feb-2019 13:29:55	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-25-D	Lab Sample ID:	720-91048-25	Worklist Smp#:	12
Client ID:	DG-R13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_012.d				
Lims ID:	720-91048-E-25-D				
Client ID:	DG-R13S-3.5-4				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 13:29:55	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 042 Name: 720-0056502-012				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Feb-2019 10:36:25	Calib Date:	08-Feb-2019 08:45:30		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0312				
First Level Reviewer: hayashid		Date:	11-Feb-2019 11:05:23		

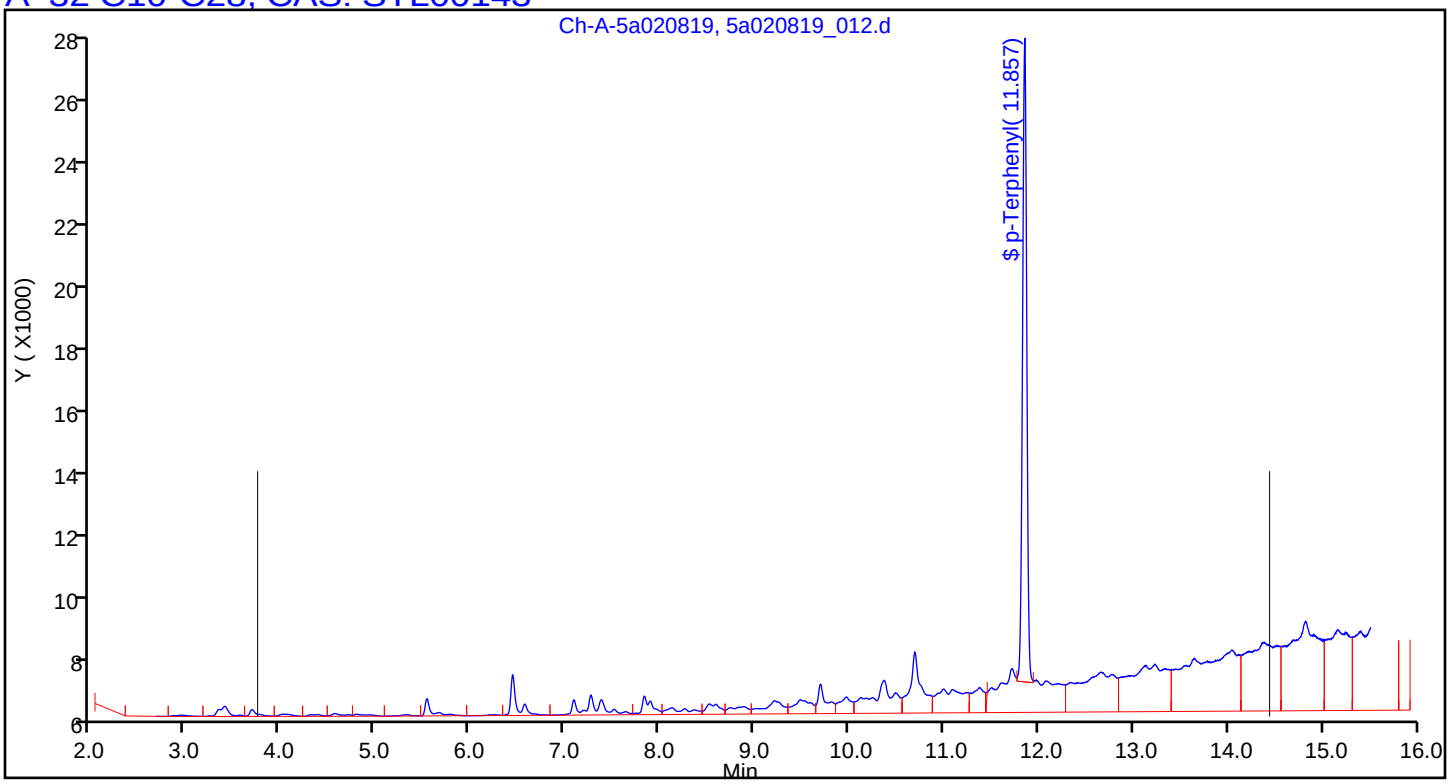
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.8	107.25

Report Date: 11-Feb-2019 11:05:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_012.d				
Injection Date:	08-Feb-2019 13:29:55	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-25-D	Lab Sample ID:	720-91048-25		
Client ID:	DG-R13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

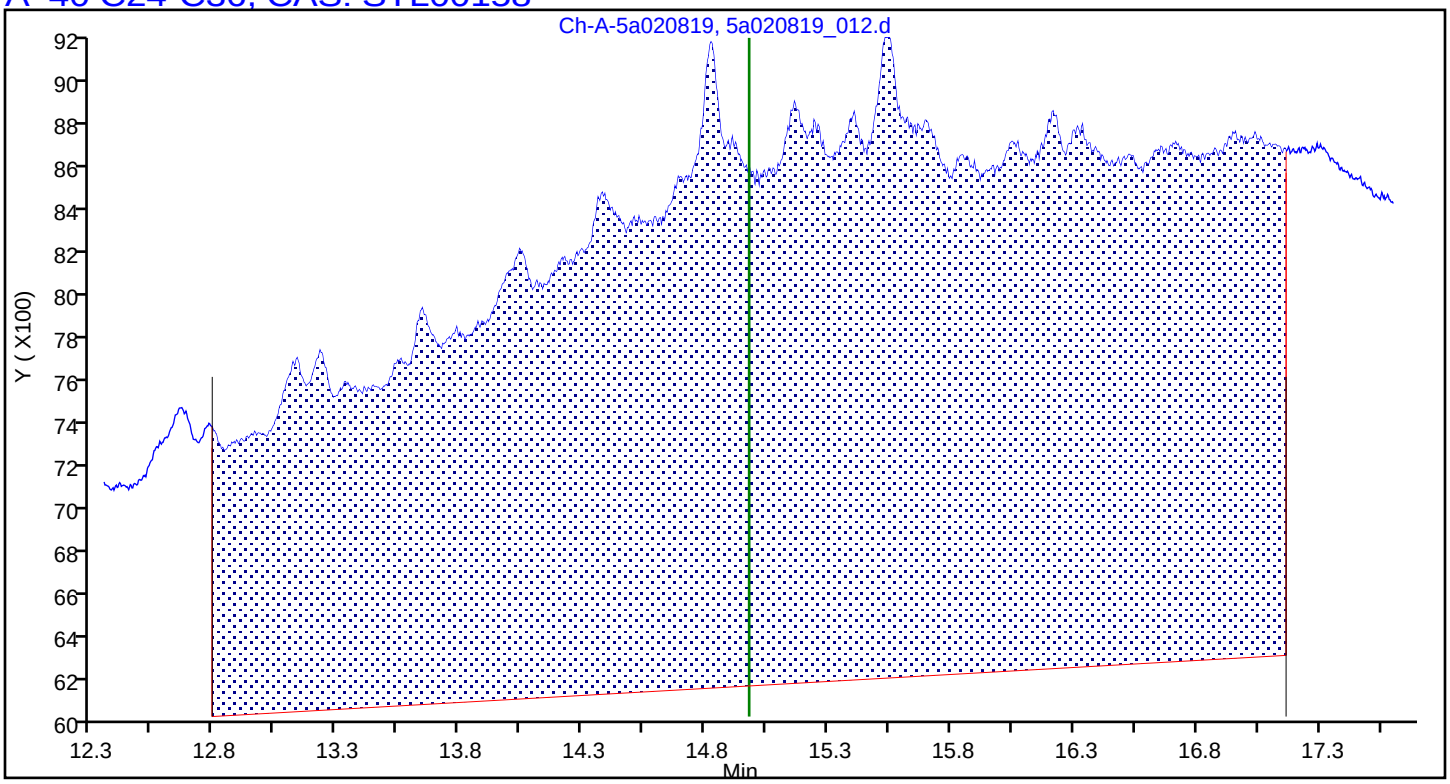


Report Date: 11-Feb-2019 11:05:26 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_012.d				
Injection Date:	08-Feb-2019 13:29:55	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-25-D	Lab Sample ID:	720-91048-25		
Client ID:	DG-R13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

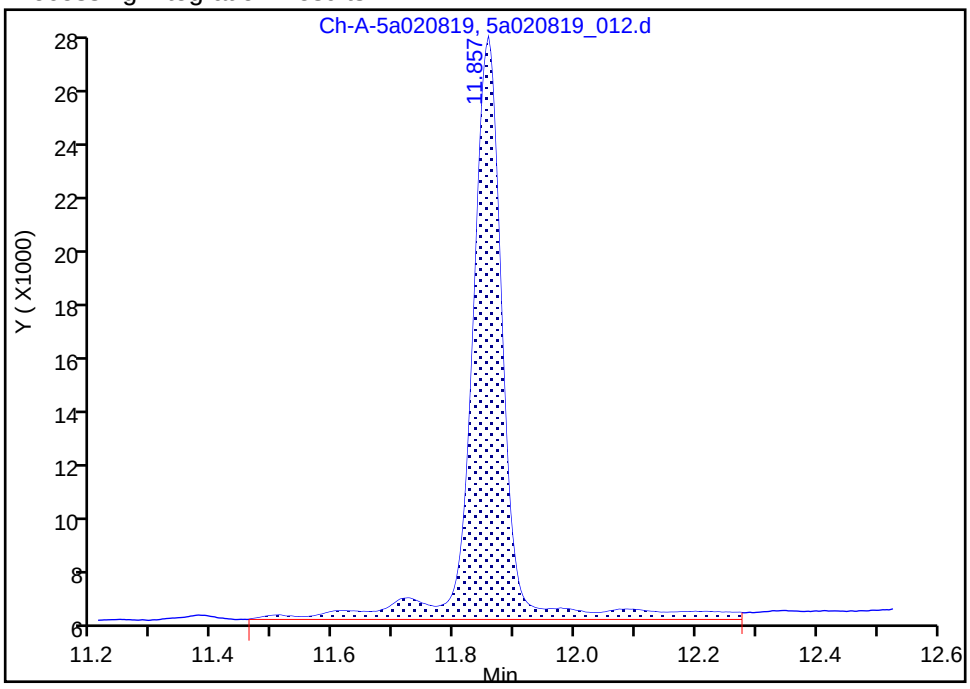
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Injection Date:	08-Feb-2019 13:29:55	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-25-D	Lab Sample ID:	720-91048-25		
Client ID:	DG-R13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

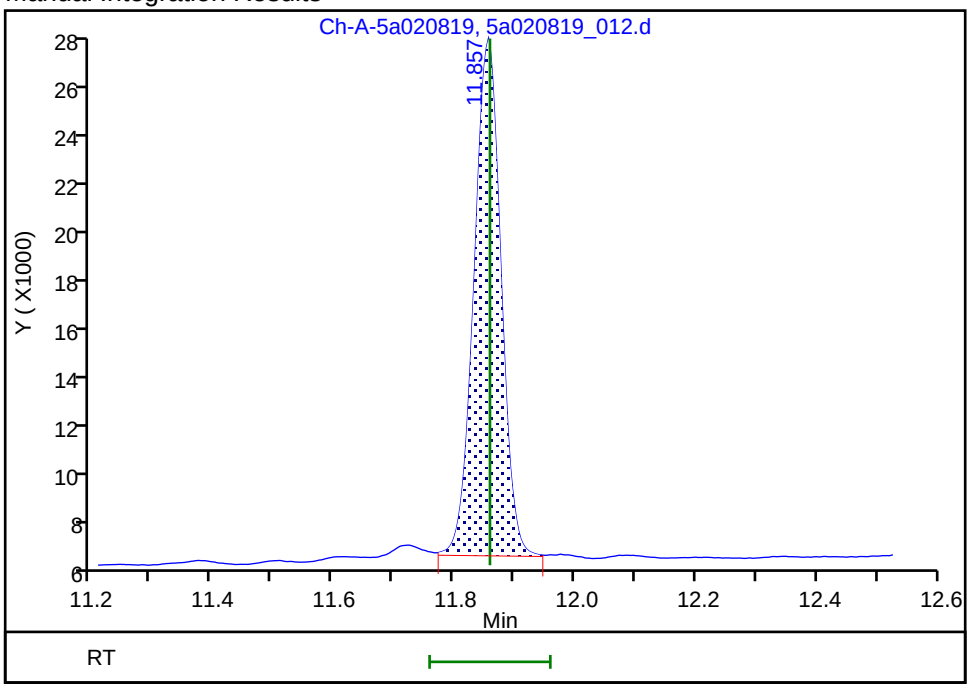
Processing Integration Results

RT: 11.86
Area: 396116
Amount: 33.217515
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 319735
Amount: 26.812354
Amount Units: mg/L



Reviewer: luj, 08-Feb-2019 14:35:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_014.d
Lims ID: 720-91048-E-26-F
Client ID: DG-Z13S-0.5-1
Sample Type: Client
Inject. Date: 08-Feb-2019 14:29:02 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 004 Name: 720-0056502-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:36:25 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 11:06:09

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.506			ND	
	23 n-Decane		3.751			ND	
A	1 C9-C13	4.490	(2.506-6.473)		14842364	NC	M
A	21 Stoddard Solvent	4.490	(2.506-6.473)		14842364	NC	M
A	57 C10-C12	4.711	(3.751-5.670)		406230	41.4	M
	24 Dodecane	5.673	5.670	0.003	1274470	NC	M
A	3 C9 - C17	5.852	(2.506-9.198)		16809382	1386.8	M
A	47 C9 - C18	6.149	(2.506-9.791)		17618970	1636.8	M
A	60 C10-C16	6.156	(3.751-8.562)		2702836	245.2	M
A	15 Kerosene	6.417	(2.506-10.328)		17988906	1668.1	M
A	25 C9-C19	6.417	(2.506-10.328)		17988906	1473.8	M
	26 C13	6.477	6.473	0.004	40985	NC	M
A	59 C12-C16	7.116	(5.670-8.562)		2296606	234.3	M
$	27 n-Decanoic Acid (Surr)		7.139			ND	U
A	62 C10-C20	7.307	(3.751-10.864)		6038933	616.2	M
A	28 C9-C24	7.648	(2.506-12.791)		20367712	2078.1	M
A	29 C9-C25	7.866	(2.506-13.226)		20367712	2078.1	M
A	54 C10-C23	8.044	(3.751-12.338)		7113983	725.8	M
A	4 C10-C24	8.271	(3.751-12.791)		7247986	739.5	M
A	16 C10-C25	8.489	(3.751-13.226)		7247986	739.5	M
	45 Hexadecane	8.563	8.562	0.001	251980	NC	M
A	14 C10-C26	8.699	(3.751-13.646)		7396447	754.7	M
A	67 C12-C22	8.768	(5.670-11.867)		6502346	663.4	M
A	12 Unknown Hydrocarbons	9.097	(3.751-14.443)		7494095	NC	M
A	32 C10-C28	9.097	(3.751-14.443)		7494095	764.6	M
A	5 Diesel	9.097	(3.751-14.443)		7494095	764.6	M
A	30 C13-C22	9.170	(6.473-11.867)		5185938	529.1	M
	44 Heptadecane	9.193	9.198	-0.005	350688	NC	M
A	31 C12-C24	9.230	(5.670-12.791)		6841756	698.1	M
	49 n-Octadecane	9.767	9.791	-0.024	413235	NC	M
A	9 Crude Oil Range Organics (	9.836	(2.506-17.167)		10798213	NC	
A	52 Mineral oil	9.836	(2.506-17.167)		10798213	940.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		20864544	NC	M
33 C19	10.330	10.328	0.002	345378	NC	M
A 64 C13-C28	10.458	(6.473-14.443)		5771457	588.9	M
A 17 C10-C36	10.459	(3.751-17.167)		7744818	790.2	M
A 13 C9-C40	10.588	(2.506-18.671)		11303807	1397.2	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		11303807	NC	
A 58 C16-C24	10.676	(8.562-12.791)		4545150	463.7	M
61 icosane	10.863	10.864	-0.001	417023	NC	M
A 6 C10-C40	11.211	(3.751-18.671)		8804609	1079.0	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		7768979	947.5	
36 Tricosane	12.337	12.338	-0.001	205407	NC	M
A 66 C13-C40	12.572	(6.473-18.671)		7061044	857.4	
37 n-Tetracosane	12.790	12.791	-0.001	134003	NC	M
A 2 C16-C36 ORO	12.864	(8.562-17.167)		5466177	720.2	
38 C25	13.227	13.226	0.001	58670	NC	M
A 19 C16-C40	13.616	(8.562-18.671)		5971771	719.3	
46 n-Hexacosane	13.640	13.646	-0.006	48454	NC	M
A 20 C19-C36	13.747	(10.328-17.167)		2491790	288.8	
A 55 C23-C32	14.112	(12.338-15.887)		943738	198.5	
39 n-Octacosane	14.513	14.443	0.070	47553	NC	M
65 C29	14.820	14.821	-0.001	62325	NC	M
A 7 Motor Oil	14.979	(12.791-17.167)		604490	99.2	
A 40 C24-C36	14.979	(12.791-17.167)		933647	153.3	M
A 50 C25-C36	15.196	(13.226-17.167)		507154	87.7	
A 10 C22-C40	15.269	(11.867-18.671)		1352441	161.8	
A 41 C23-C40	15.504	(12.338-18.671)		1098545	133.9	
A 8 C24-C40	15.731	(12.791-18.671)		945018	118.8	
56 Dotriacontane		15.887			ND	
A 51 C28-C40	16.557	(14.443-18.671)		694981	89.3	
A 63 C29-C40	16.746	(14.821-18.671)		655745	90.8	
42 n-Hexatriacontane		17.167			ND	
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

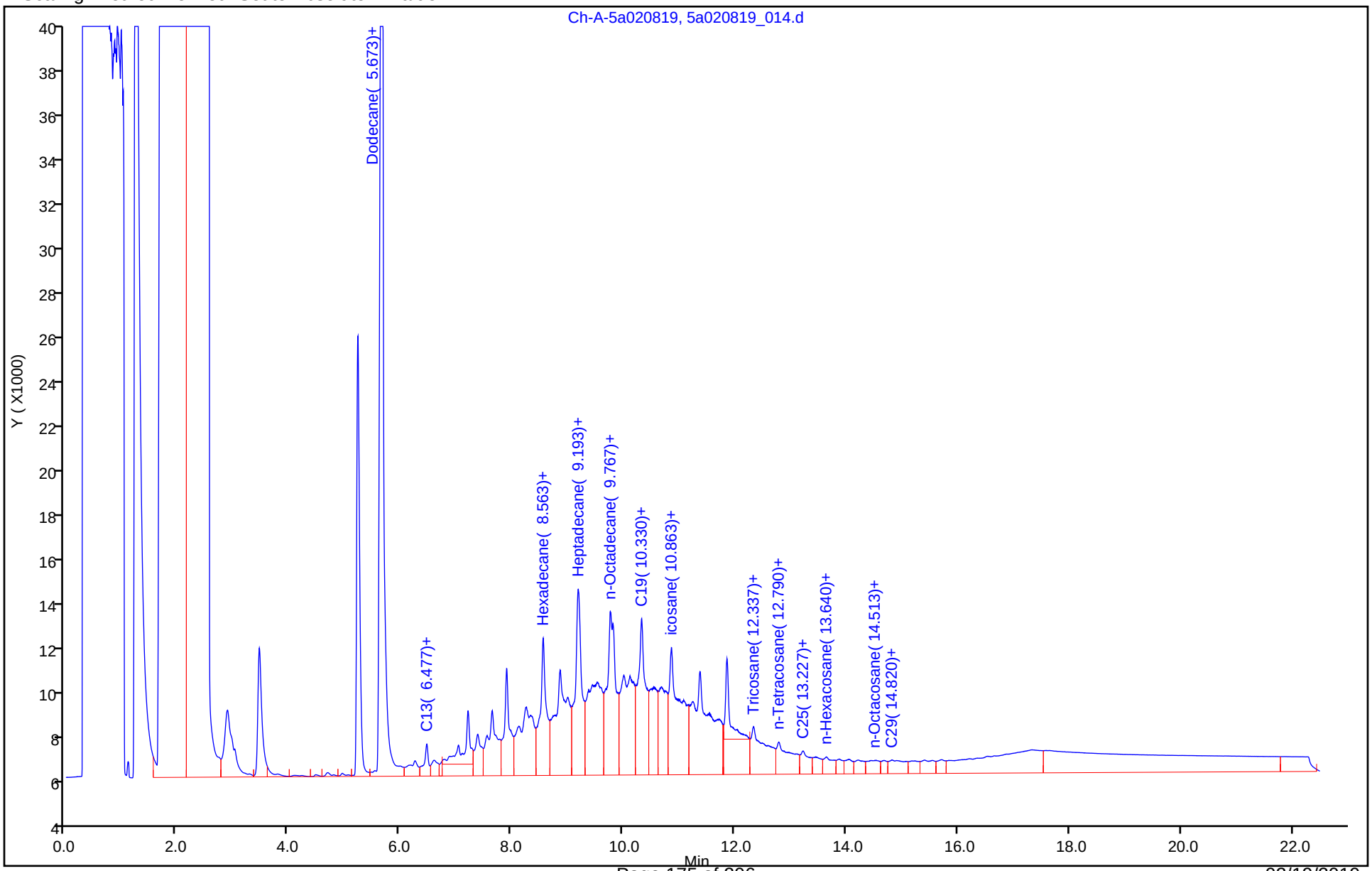
Report Date: 11-Feb-2019 11:06:10 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_014.d

Injection Date:	08-Feb-2019 14:29:02	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-26-F	Lab Sample ID:	720-91048-26	Worklist Smp#:	14
Client ID:	DG-Z13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

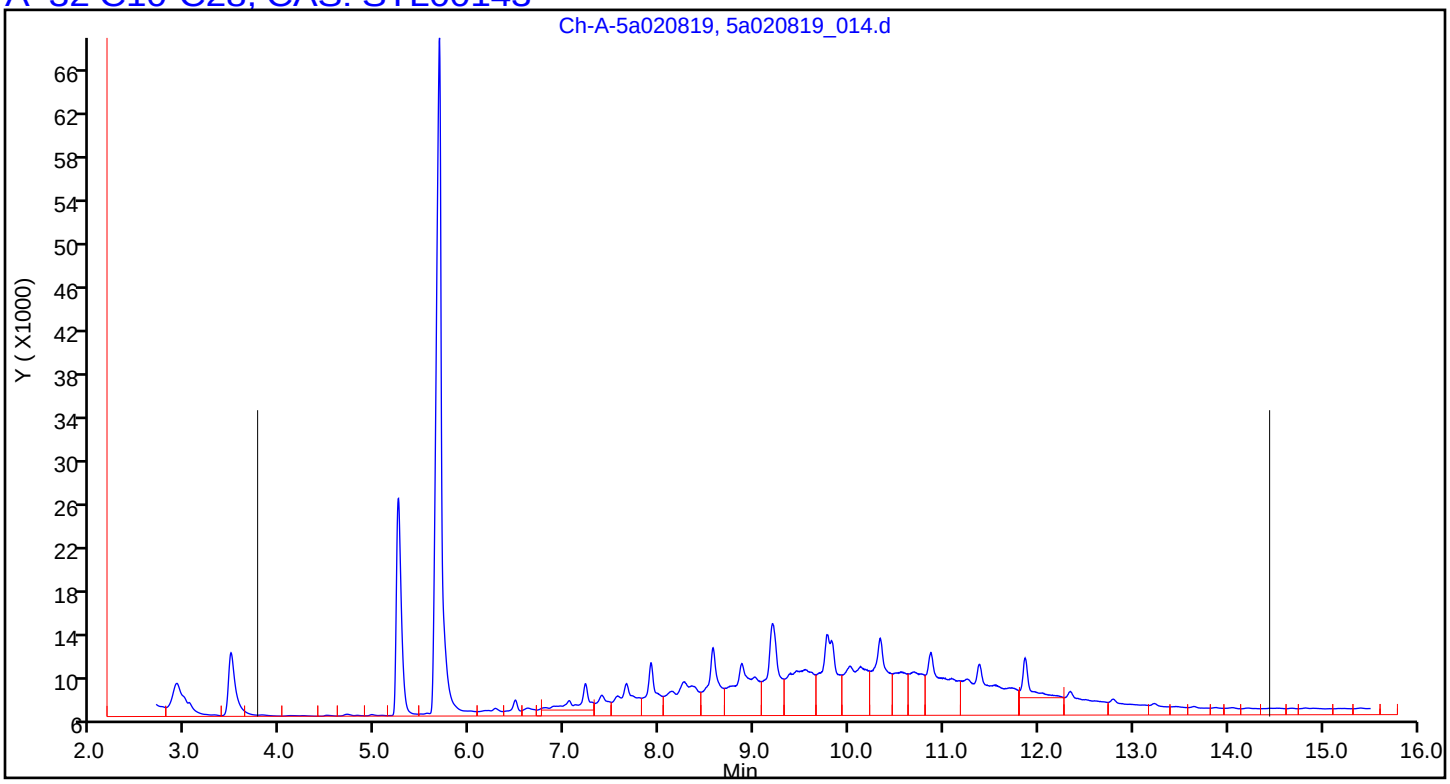


Report Date: 11-Feb-2019 11:06:11 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_014.d				
Injection Date:	08-Feb-2019 14:29:02	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-26-F	Lab Sample ID:	720-91048-26		
Client ID:	DG-Z13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

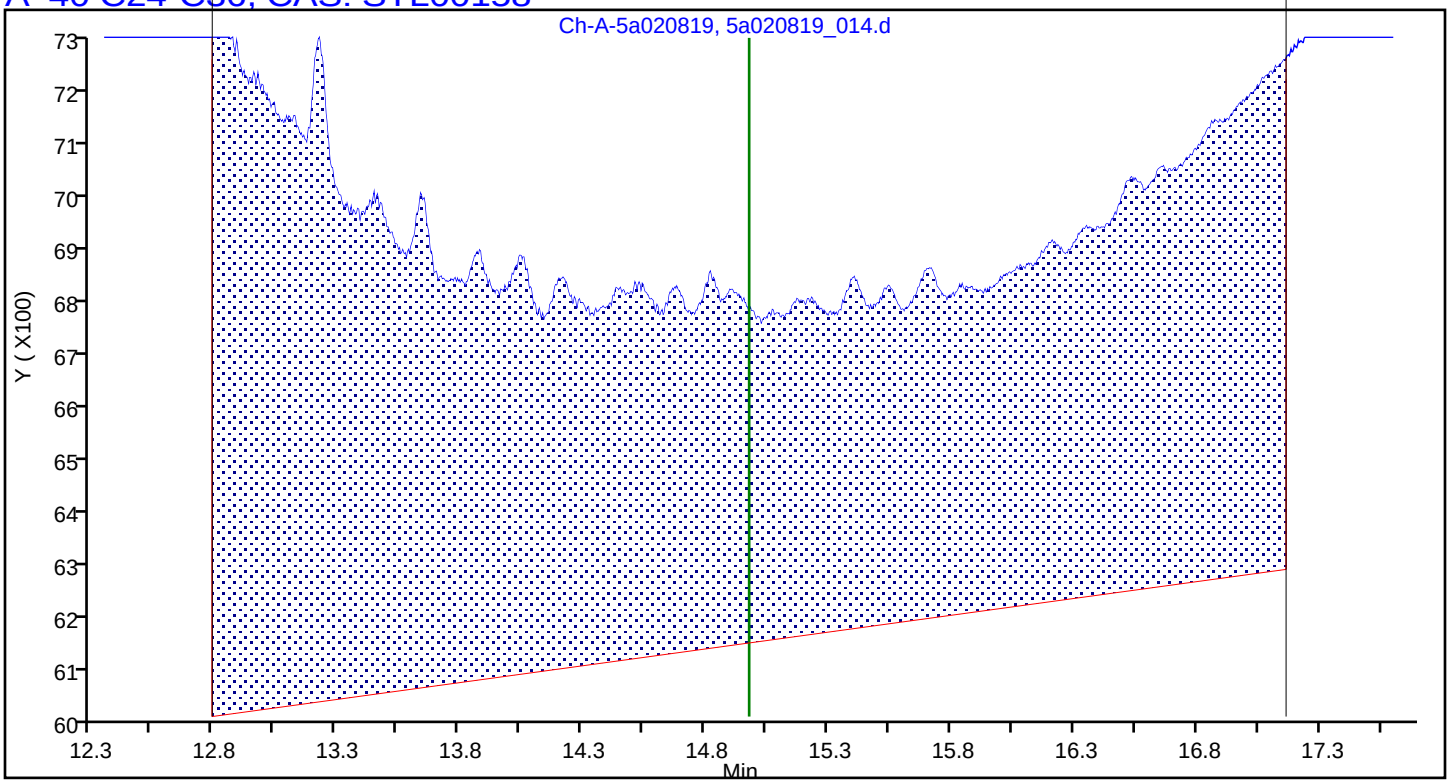


Report Date: 11-Feb-2019 11:06:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_014.d				
Injection Date:	08-Feb-2019 14:29:02	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-26-F	Lab Sample ID:	720-91048-26		
Client ID:	DG-Z13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

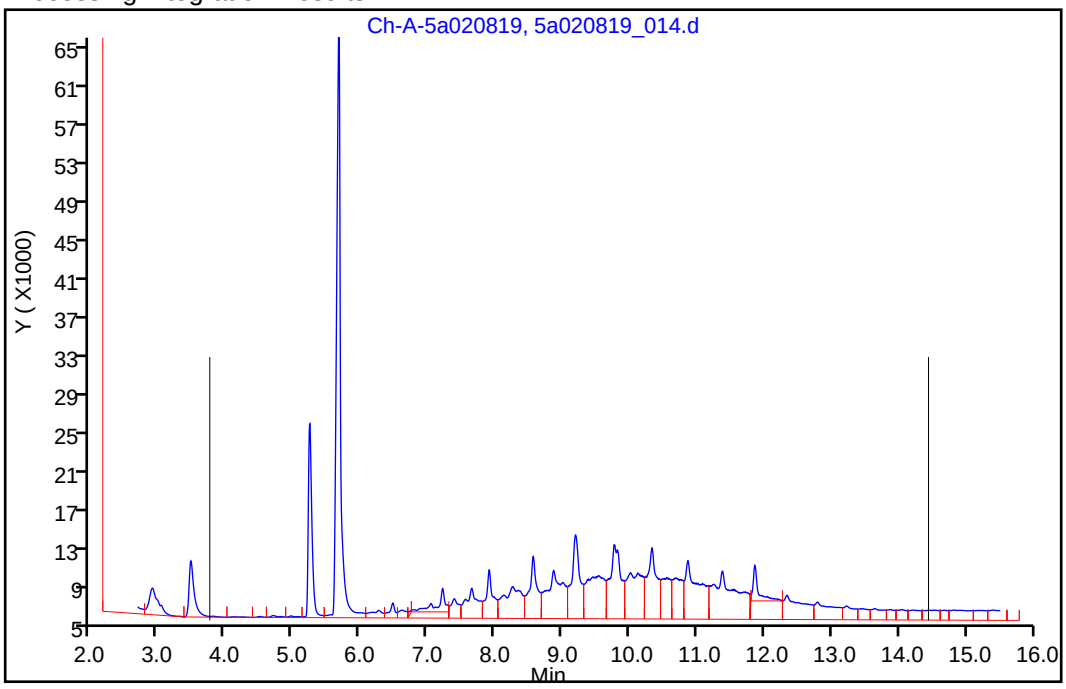
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_014.d				
Injection Date:	08-Feb-2019 14:29:02	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-26-F	Lab Sample ID:	720-91048-26		
Client ID:	DG-Z13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

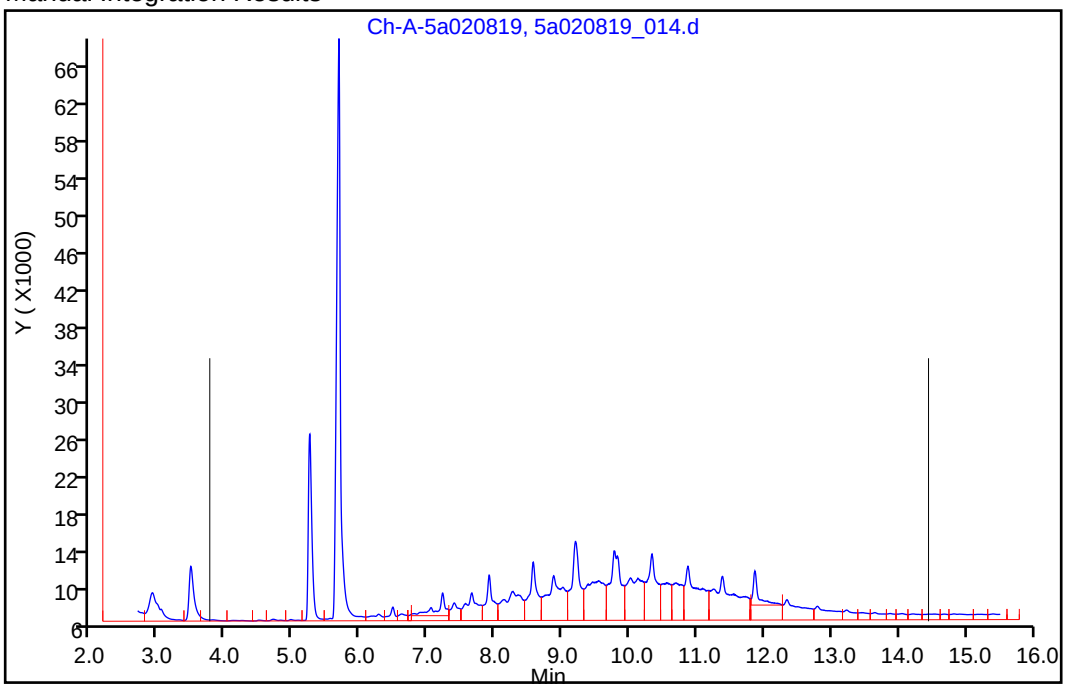
Processing Integration Results

RT: 9.10
Response: 7999655
Amount: 816.2069



Manual Integration Results

RT: 9.10
Response: 7494095
Amount: 764.6245



Reviewer: luj, 08-Feb-2019 15:11:53

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

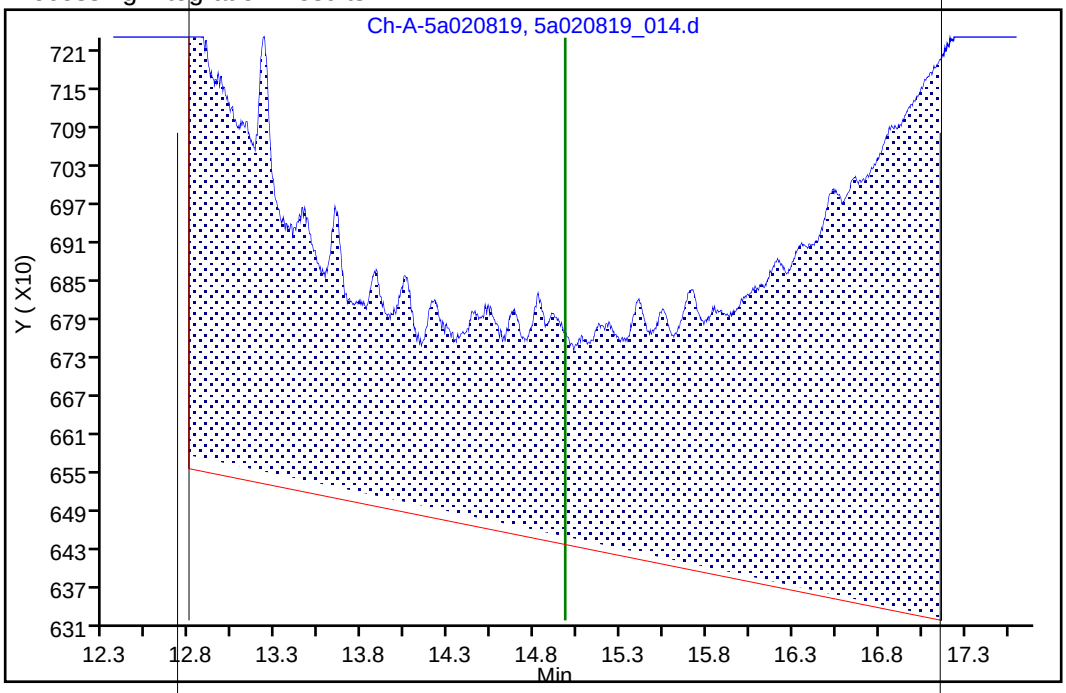
Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_014.d
Injection Date: 08-Feb-2019 14:29:02 Instrument ID: CHDRO5
Lims ID: 720-91048-E-26-F Lab Sample ID: 720-91048-26
Client ID: DG-Z13S-0.5-1
Operator ID: manager ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: DRO5A Limit Group: DRO
Column: Detector GC FID1A

A 40 C24-C36, RT: 14.979, CAS: STL00158

Signal: 1

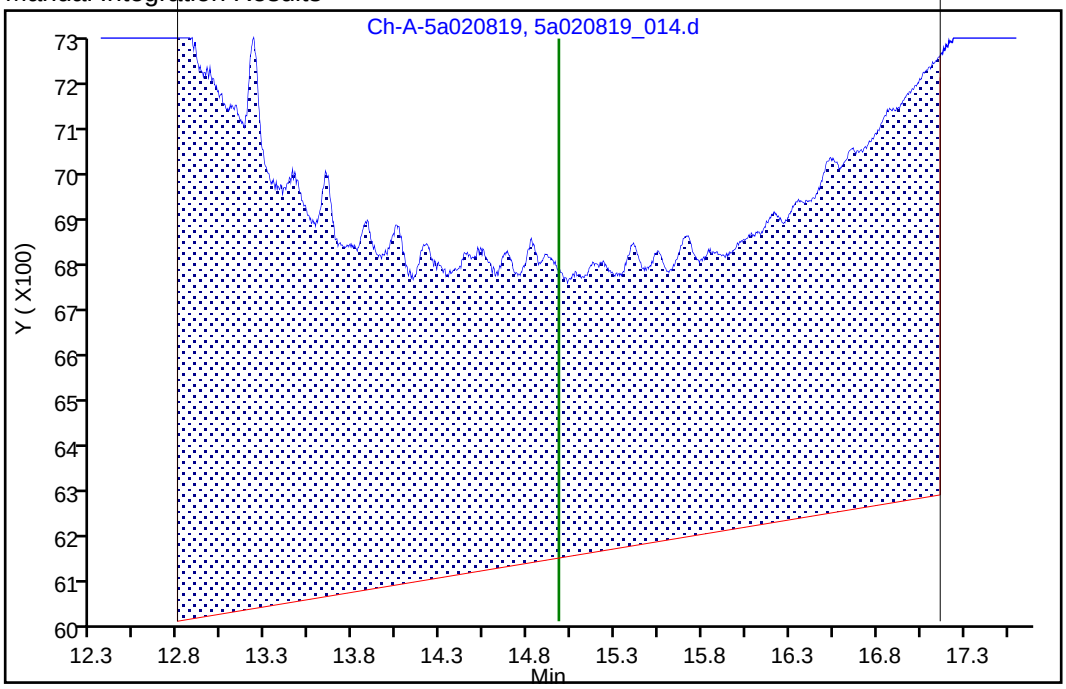
Processing Integration Results

RT: 14.98
Response: 604490
Amount: 99.224978



Manual Integration Results

RT: 14.98
Response: 933647
Amount: 153.2550



Reviewer: luj, 08-Feb-2019 15:12:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

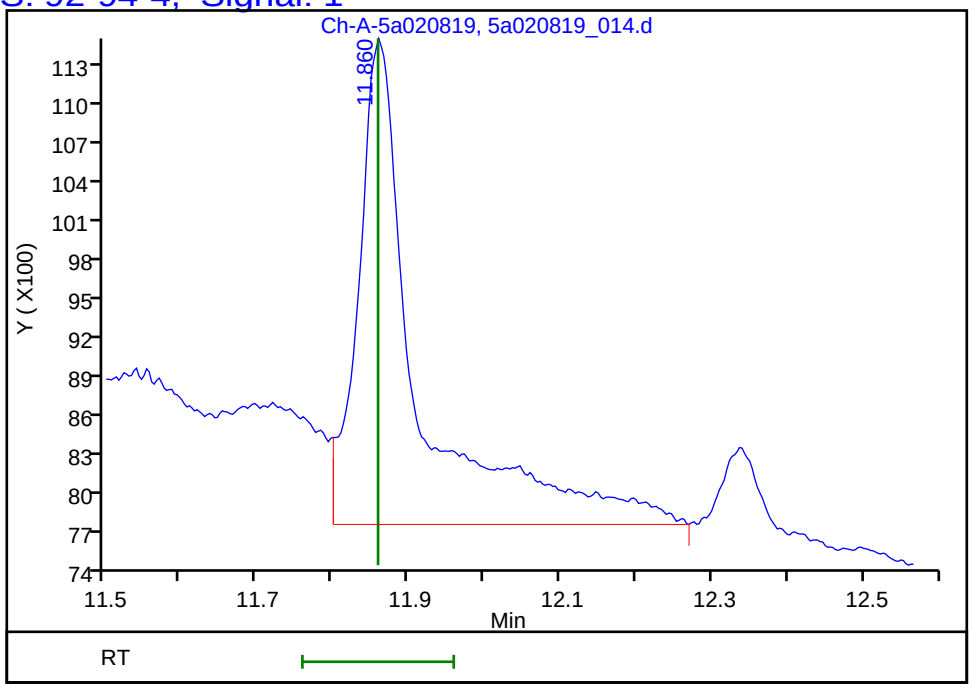
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_014.d				
Injection Date:	08-Feb-2019 14:29:02	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-26-F	Lab Sample ID:	720-91048-26		
Client ID:	DG-Z13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 100814
Amount: 8.454065



Reviewer: luj, 08-Feb-2019 15:12:39
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_015.d
Lims ID: 720-91048-E-27-D
Client ID: DG-Z13S-3.5-4
Sample Type: Client
Inject. Date: 08-Feb-2019 14:58:22 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 005 Name: 720-0056502-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:36:25 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 11:06:33

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.506			ND	
	23 n-Decane	3.738	3.751	-0.013	2092	NC	
A	1 C9-C13	4.490	(2.506-6.473)		11564832	NC	M
A	21 Stoddard Solvent	4.490	(2.506-6.473)		11564832	NC	M
A	57 C10-C12	4.711	(3.751-5.670)		198620	20.3	M
	24 Dodecane	5.627	5.670	-0.043	182403	NC	M
A	3 C9 - C17	5.852	(2.506-9.198)		11893048	981.2	M
A	47 C9 - C18	6.149	(2.506-9.791)		12054902	1119.9	M
A	60 C10-C16	6.156	(3.751-8.562)		316255	28.7	M
A	15 Kerosene	6.417	(2.506-10.328)		12424098	1152.1	M
A	25 C9-C19	6.417	(2.506-10.328)		12424098	1017.9	M
	26 C13	6.460	6.473	-0.013	6866	NC	M
A	59 C12-C16	7.116	(5.670-8.562)		300038	30.6	M
$	27 n-Decanoic Acid (Surr)		7.139			ND	U
A	62 C10-C20	7.307	(3.751-10.864)		1467459	149.7	M
A	28 C9-C24	7.648	(2.506-12.791)		15165774	1547.4	M
A	29 C9-C25	7.866	(2.506-13.226)		15165774	1547.4	M
A	54 C10-C23	8.044	(3.751-12.338)		3812226	389.0	M
A	4 C10-C24	8.271	(3.751-12.791)		3812226	389.0	M
A	16 C10-C25	8.489	(3.751-13.226)		3812226	389.0	M
	45 Hexadecane	8.567	8.562	0.005	137516	NC	M
A	14 C10-C26	8.699	(3.751-13.646)		4038940	412.1	M
A	67 C12-C22	8.768	(5.670-11.867)		3067435	313.0	M
A	12 Unknown Hydrocarbons	9.097	(3.751-14.443)		4438679	NC	M
A	32 C10-C28	9.097	(3.751-14.443)		4438679	452.9	M
A	5 Diesel	9.097	(3.751-14.443)		4438679	452.9	M
A	30 C13-C22	9.170	(6.473-11.867)		2879234	293.8	M
	44 Heptadecane	9.203	9.198	0.005	161854	NC	M
A	31 C12-C24	9.230	(5.670-12.791)		3796009	387.3	M
	49 n-Octadecane	9.817	9.791	0.026	369196	NC	M
A	9 Crude Oil Range Organics (	9.836	(2.506-17.167)		6436505	NC	
A	52 Mineral oil	9.836	(2.506-17.167)		6436505	560.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		17514621	NC	M
33 C19	10.333	10.328	0.005	396909	NC	M
A 64 C13-C28	10.458	(6.473-14.443)		4234261	432.0	M
A 17 C10-C36	10.459	(3.751-17.167)		6161073	628.6	M
A 13 C9-C40	10.588	(2.506-18.671)		7153964	868.3	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		7153964	NC	
A 58 C16-C24	10.676	(8.562-12.791)		3495971	356.7	M
61 icosane	10.877	10.864	0.013	545913	NC	M
A 6 C10-C40	11.211	(3.751-18.671)		7120177	864.4	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		6973914	846.2	
36 Tricosane	12.330	12.338	-0.008	728574	NC	M
A 66 C13-C40	12.572	(6.473-18.671)		6906314	837.7	
37 n-Tetracosane		12.791			ND	
A 2 C16-C36 ORO	12.864	(8.562-17.167)		5956856	784.9	
38 C25		13.226			ND	
A 19 C16-C40	13.616	(8.562-18.671)		6674315	808.8	
46 n-Hexacosane	13.640	13.646	-0.006	119938	NC	M
A 20 C19-C36	13.747	(10.328-17.167)		4612586	534.6	
A 55 C23-C32	14.112	(12.338-15.887)		2423391	509.6	
39 n-Octacosane	14.390	14.443	-0.053	159336	NC	M
65 C29	14.827	14.821	0.006	331591	NC	M
A 7 Motor Oil	14.979	(12.791-17.167)		2624250	430.8	
A 40 C24-C36	14.979	(12.791-17.167)		2624250	430.8	
A 50 C25-C36	15.196	(13.226-17.167)		2356583	407.3	
A 10 C22-C40	15.269	(11.867-18.671)		3948897	472.4	
A 41 C23-C40	15.504	(12.338-18.671)		3570912	435.4	
A 8 C24-C40	15.731	(12.791-18.671)		3263911	410.3	
56 Dotriacontane		15.887			ND	
A 51 C28-C40	16.557	(14.443-18.671)		2282921	348.6	
A 63 C29-C40	16.746	(14.821-18.671)		2029568	338.7	
42 n-Hexatriacontane	16.997	17.167	-0.170	222487	NC	M
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

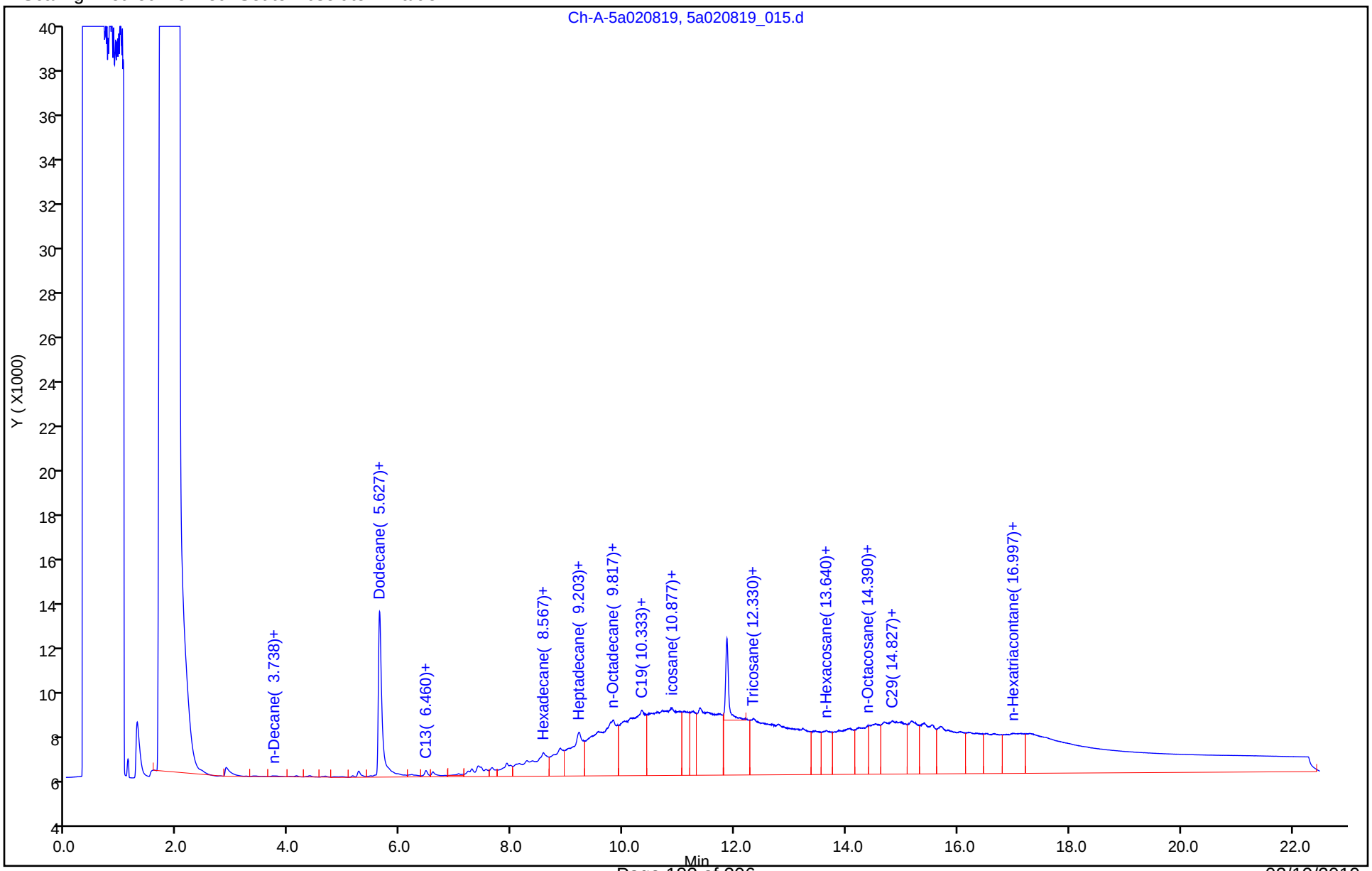
U - Marked Undetected

Report Date: 11-Feb-2019 11:06:35 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_015.d				
Injection Date:	08-Feb-2019 14:58:22	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-27-D	Lab Sample ID:	720-91048-27	Worklist Smp#:	15
Client ID:	DG-Z13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

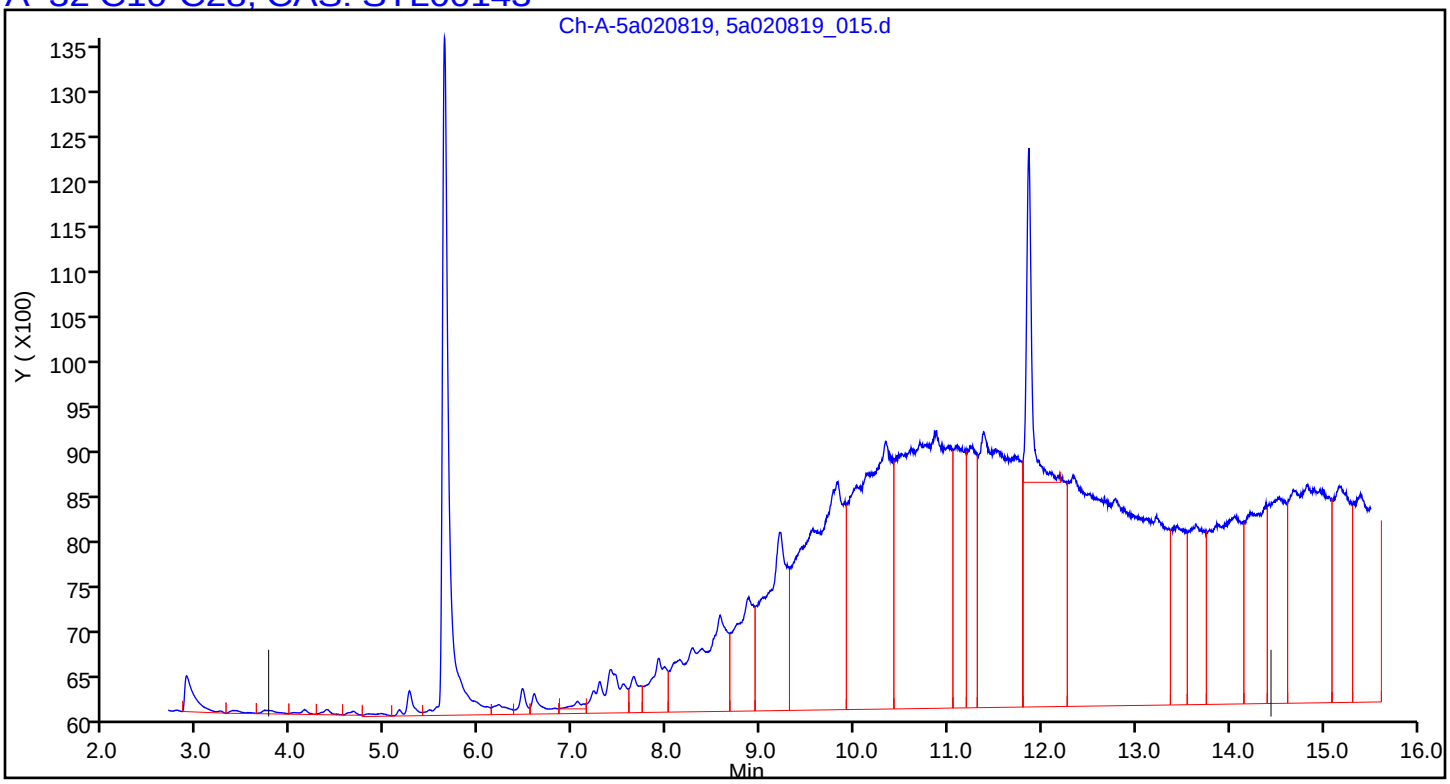


Report Date: 11-Feb-2019 11:06:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_015.d				
Injection Date:	08-Feb-2019 14:58:22	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-27-D	Lab Sample ID:	720-91048-27		
Client ID:	DG-Z13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

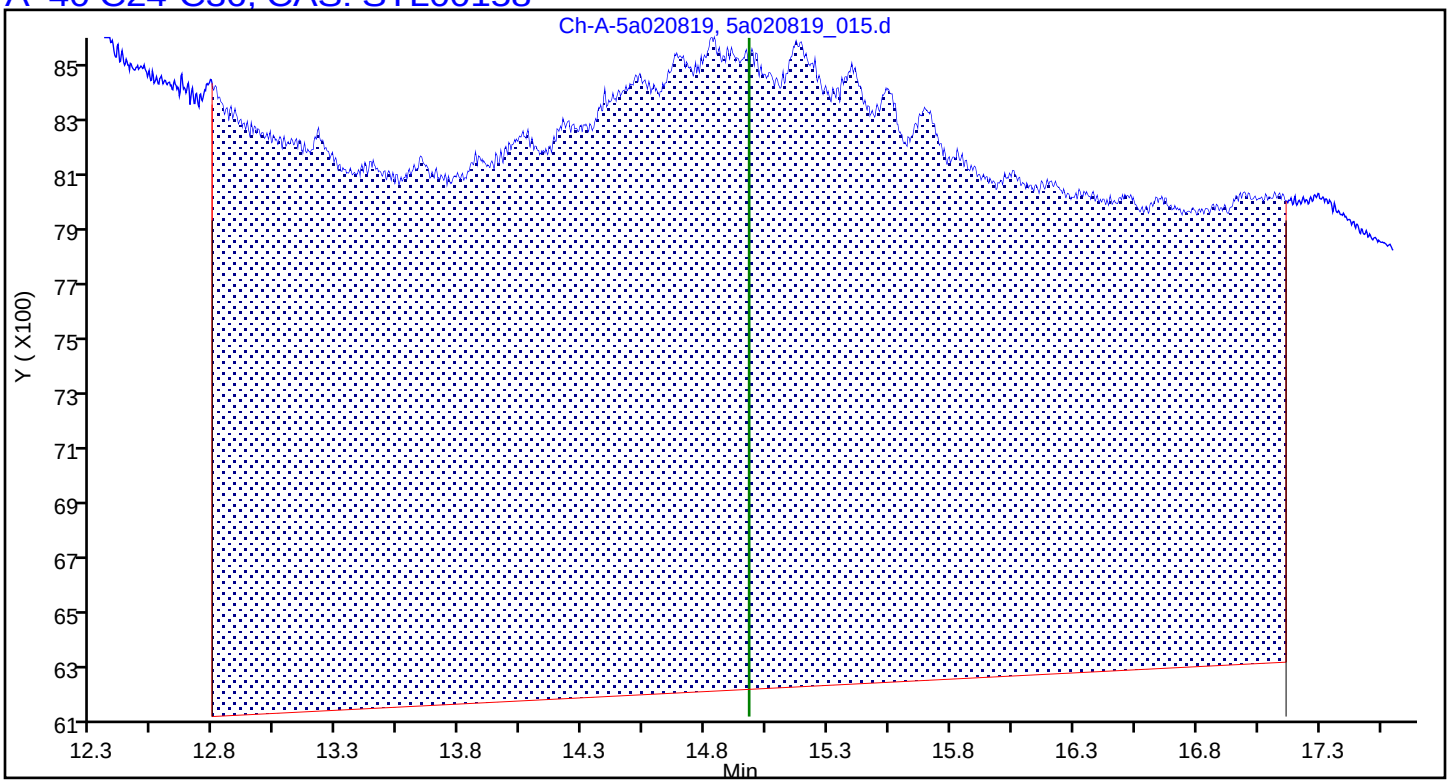


Report Date: 11-Feb-2019 11:06:37 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_015.d				
Injection Date:	08-Feb-2019 14:58:22	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-27-D	Lab Sample ID:	720-91048-27		
Client ID:	DG-Z13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

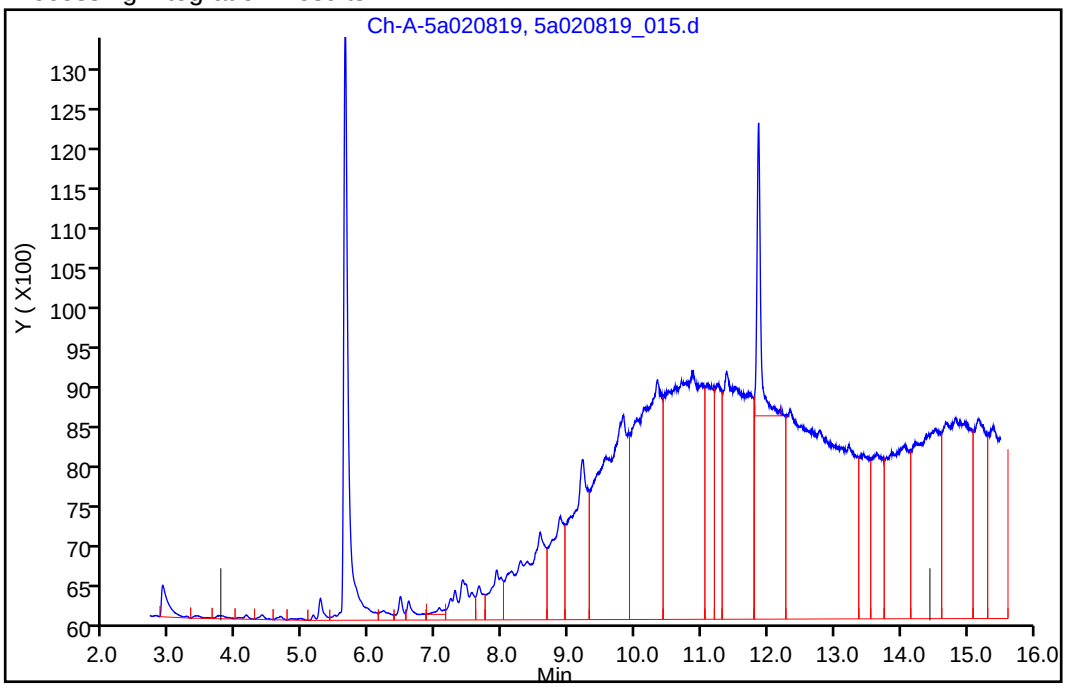
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_015.d				
Injection Date:	08-Feb-2019 14:58:22	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-27-D	Lab Sample ID:	720-91048-27		
Client ID:	DG-Z13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

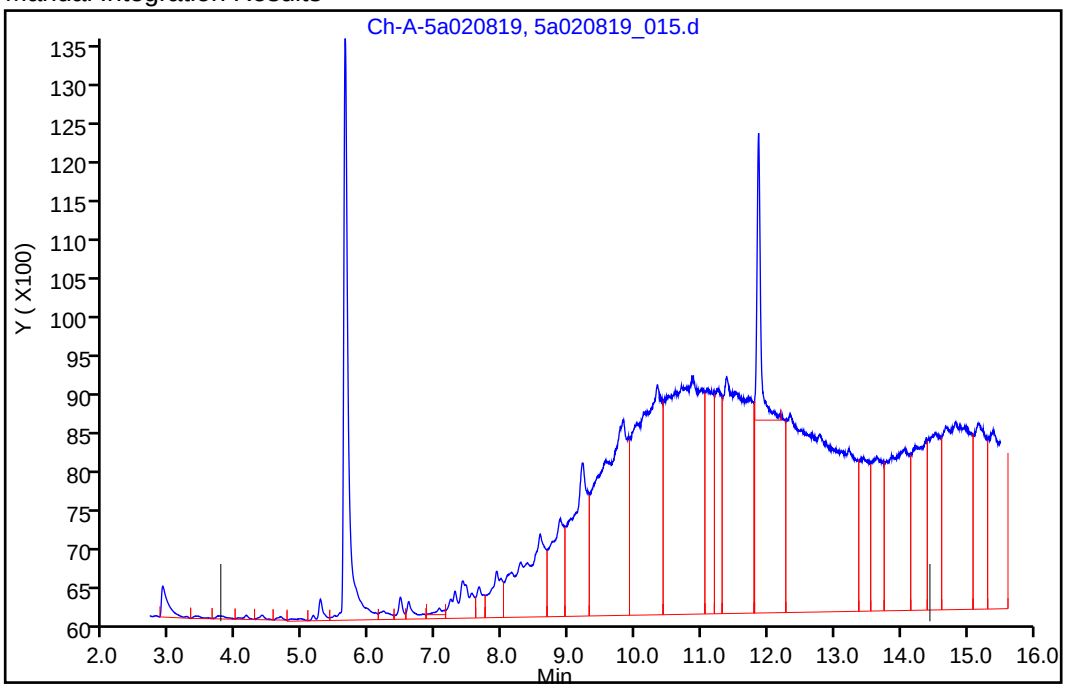
Processing Integration Results

RT: 9.10
Response: 4319418
Amount: 440.7114



Manual Integration Results

RT: 9.10
Response: 4438679
Amount: 452.8796



Reviewer: luj, 08-Feb-2019 15:36:47

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

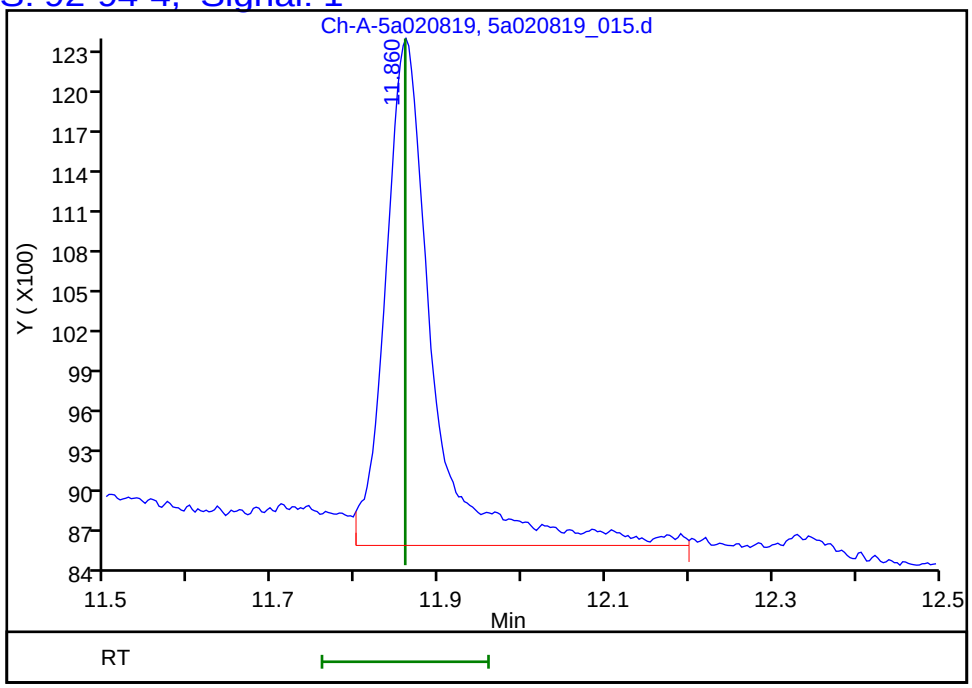
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_015.d				
Injection Date:	08-Feb-2019 14:58:22	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-27-D	Lab Sample ID:	720-91048-27		
Client ID:	DG-Z13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 73598
Amount: 6.171785



Reviewer: luj, 08-Feb-2019 15:37:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_013.d
Lims ID: 720-91048-E-28-D
Client ID: DG-AF13S-0.5-1
Sample Type: Client
Inject. Date: 08-Feb-2019 13:59:53 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: #: 003 Name: 720-0056502-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 10:36:25 Calib Date: 08-Feb-2019 08:45:30
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 11:05:49

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.506			ND	
	23 n-Decane	3.776	3.751	0.025	500	NC	
A	1 C9-C13	4.490	(2.506-6.473)		8258	NC	
A	21 Stoddard Solvent	4.490	(2.506-6.473)		8258	NC	
A	57 C10-C12	4.711	(3.751-5.670)		763	0.0778	
	24 Dodecane		5.670			ND	
A	3 C9 - C17	5.852	(2.506-9.198)		23369	1.93	
A	47 C9 - C18	6.149	(2.506-9.791)		23369	2.17	
A	60 C10-C16	6.156	(3.751-8.562)		16128	1.46	
A	15 Kerosene	6.417	(2.506-10.328)		23369	2.17	
A	25 C9-C19	6.417	(2.506-10.328)		23369	1.91	
	26 C13	6.441	6.473	-0.032	254	NC	
A	59 C12-C16	7.116	(5.670-8.562)		15365	1.57	
$	27 n-Decanoic Acid (Surr)		7.139			ND	
A	62 C10-C20	7.307	(3.751-10.864)		313173	32.0	
A	28 C9-C24	7.648	(2.506-12.791)		320414	32.7	
A	29 C9-C25	7.866	(2.506-13.226)		1251457	127.7	M
A	54 C10-C23	8.044	(3.751-12.338)		313173	32.0	
A	4 C10-C24	8.271	(3.751-12.791)		313173	32.0	
A	16 C10-C25	8.489	(3.751-13.226)		1244216	126.9	M
	45 Hexadecane		8.562			ND	
A	14 C10-C26	8.699	(3.751-13.646)		1244216	126.9	M
A	67 C12-C22	8.768	(5.670-11.867)		312410	31.9	
A	12 Unknown Hydrocarbons	9.097	(3.751-14.443)		2240851	NC	M
A	32 C10-C28	9.097	(3.751-14.443)		2240851	228.6	M
A	5 Diesel	9.097	(3.751-14.443)		2240851	228.6	M
A	30 C13-C22	9.170	(6.473-11.867)		312410	31.9	
	44 Heptadecane		9.198			ND	
A	31 C12-C24	9.230	(5.670-12.791)		312410	31.9	
	49 n-Octadecane		9.791			ND	
A	9 Crude Oil Range Organics (	9.836	(2.506-17.167)		5055457	NC	
A	52 Mineral oil	9.836	(2.506-17.167)		5055457	440.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.836	(2.506-17.167)		6361797	NC	M
33 C19		10.328			ND	
A 64 C13-C28	10.458	(6.473-14.443)		2240088	228.6	M
A 17 C10-C36	10.459	(3.751-17.167)		6354556	648.4	M
A 13 C9-C40	10.588	(2.506-18.671)		5999859	721.2	
A 68 Crude Oil Range Organics (	10.588	(2.506-18.671)		5999859	NC	
A 58 C16-C24	10.676	(8.562-12.791)		297045	30.3	
61 icosane		10.864			ND	
A 6 C10-C40	11.211	(3.751-18.671)		5997783	721.4	
$ 34 p-Terphenyl		11.859			ND	
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.170	(5.670-18.671)		5989147	720.7	
36 Tricosane		12.338			ND	
A 66 C13-C40	12.572	(6.473-18.671)		5979888	719.7	
37 n-Tetracosane		12.791			ND	
A 2 C16-C36 ORO	12.864	(8.562-17.167)		4960881	653.7	
38 C25		13.226			ND	
A 19 C16-C40	13.616	(8.562-18.671)		5905283	710.8	
46 n-Hexacosane		13.646			ND	
A 20 C19-C36	13.747	(10.328-17.167)		4296806	498.0	
A 55 C23-C32	14.112	(12.338-15.887)		2890038	607.7	
39 n-Octacosane	14.390	14.443	-0.053	996635	NC	M
65 C29	14.910	14.821	0.089	434401	NC	
A 7 Motor Oil	14.979	(12.791-17.167)		3436980	564.2	
A 40 C24-C36	14.979	(12.791-17.167)		3436980	564.2	
A 50 C25-C36	15.196	(13.226-17.167)		3182187	550.0	
A 10 C22-C40	15.269	(11.867-18.671)		4728749	565.6	
A 41 C23-C40	15.504	(12.338-18.671)		4518661	551.0	
A 8 C24-C40	15.731	(12.791-18.671)		4287348	538.9	
56 Dotriacontane		15.887			ND	
A 51 C28-C40	16.557	(14.443-18.671)		3145892	496.8	
A 63 C29-C40	16.746	(14.821-18.671)		2808693	487.3	
42 n-Hexatriacontane		17.167			ND	
43 C40		18.671			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

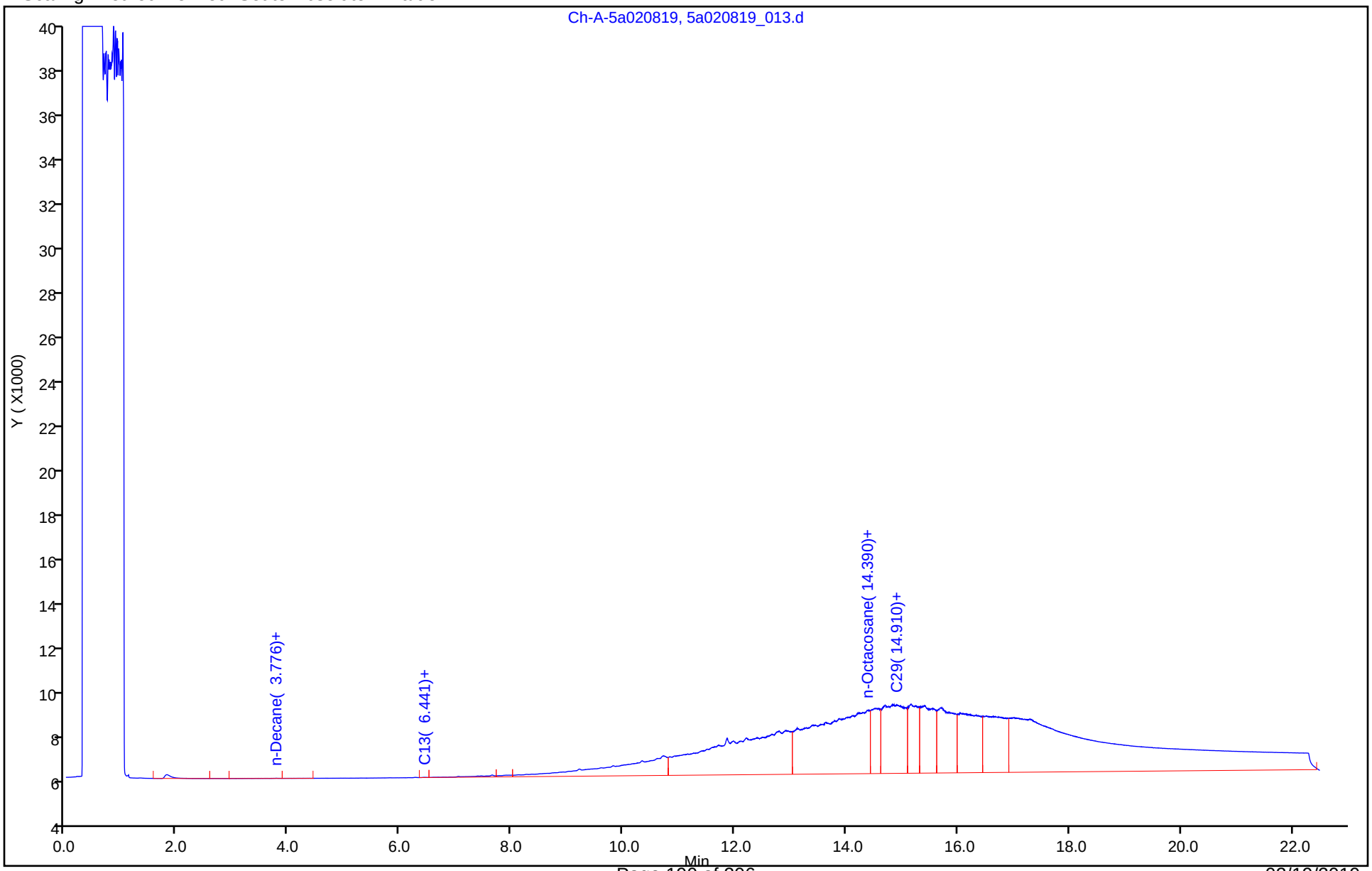
Report Date: 11-Feb-2019 11:05:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_013.d

Injection Date:	08-Feb-2019 13:59:53	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-28-D	Lab Sample ID:	720-91048-28	Worklist Smp#:	13
Client ID:	DG-AF13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

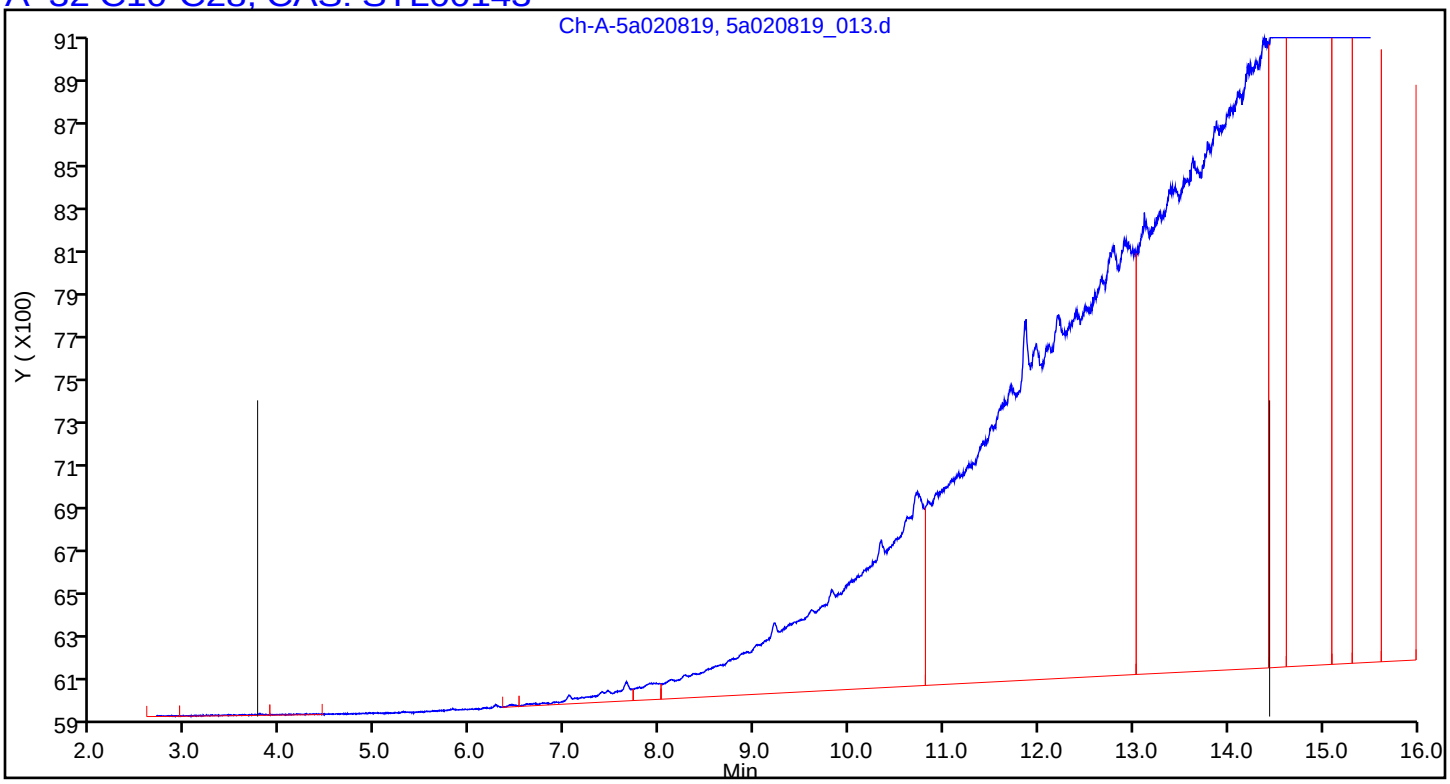


Report Date: 11-Feb-2019 11:05:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_013.d				
Injection Date:	08-Feb-2019 13:59:53	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-28-D	Lab Sample ID:	720-91048-28		
Client ID:	DG-AF13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

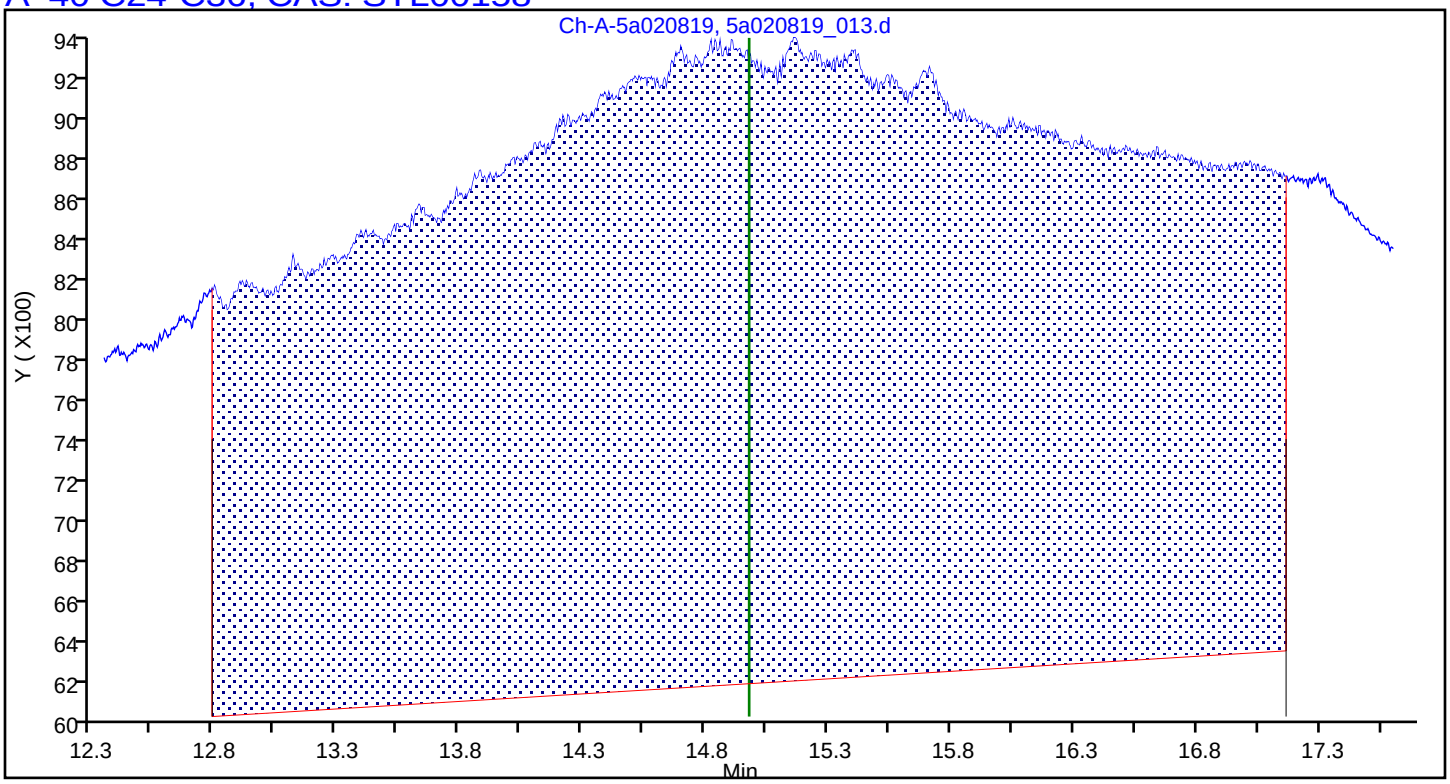


Report Date: 11-Feb-2019 11:05:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_013.d				
Injection Date:	08-Feb-2019 13:59:53	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-28-D	Lab Sample ID:	720-91048-28		
Client ID:	DG-AF13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

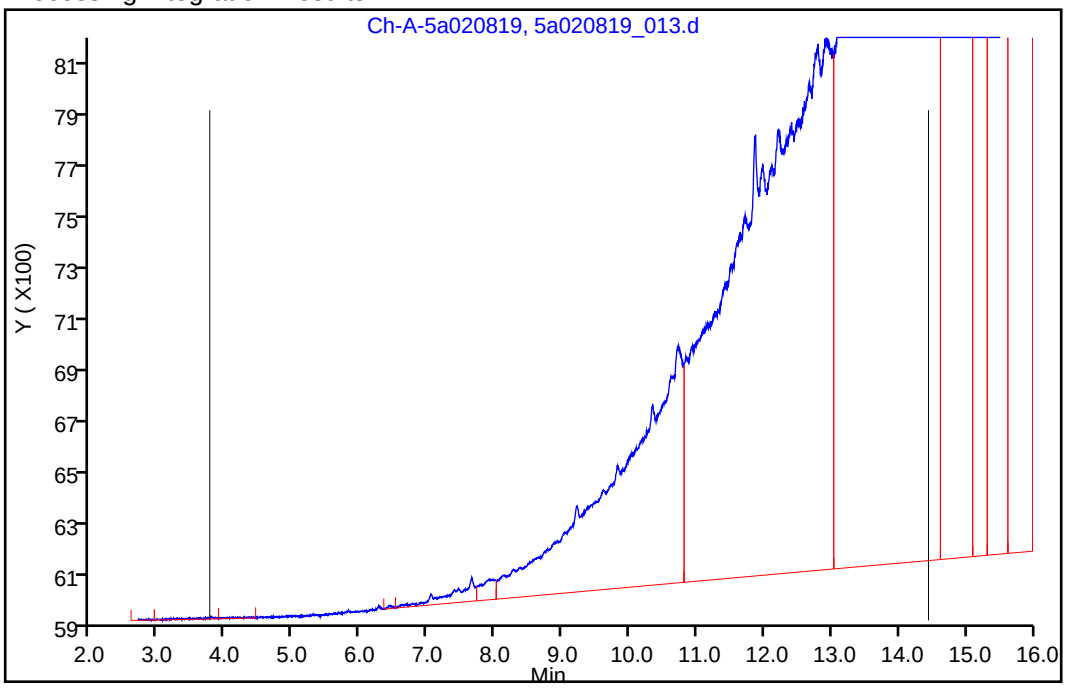
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190208-56502.b\5a020819_013.d				
Injection Date:	08-Feb-2019 13:59:53	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-28-D	Lab Sample ID:	720-91048-28		
Client ID:	DG-AF13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.097, CAS: STL00143

Signal: 1

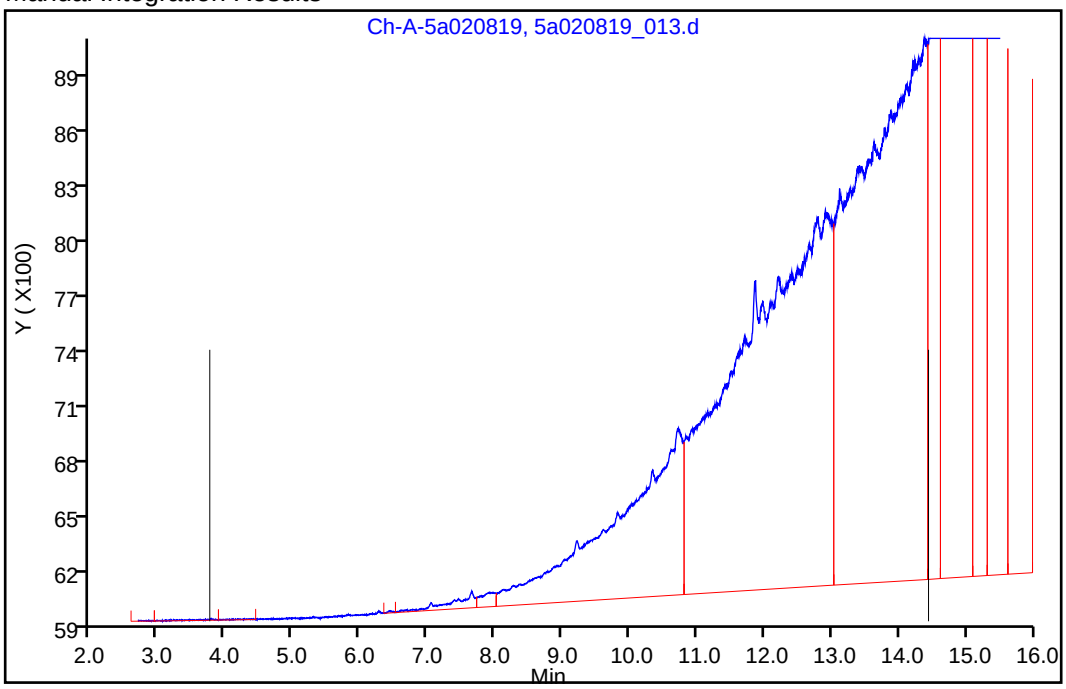
Processing Integration Results

RT: 9.10
Response: 1244216
Amount: 126.9477



Manual Integration Results

RT: 9.10
Response: 2240851
Amount: 228.6346



Reviewer: luj, 08-Feb-2019 14:43:43

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_043.d
Lims ID: 720-91048-E-29-F
Client ID: DG-AF13S-3.5-4
Sample Type: Client
Inject. Date: 01-Feb-2019 04:55:34 ALS Bottle#: 0 Worklist Smp#: 43
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 118 Name: 720-0056377-043
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\DRO5B.m
Limit Group: DRO
Last Update: 01-Feb-2019 13:07:45 Calib Date: 31-Jan-2019 08:51:58
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0313

First Level Reviewer: luj Date: 01-Feb-2019 13:07:45

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.701	2.657	0.044	292	NC	
	23 n-Decane	3.887	3.879	0.008	1737	NC	
A	1 C9-C13	4.613	(2.657-6.569)		16046	1.27	
A	21 Stoddard Solvent	4.613	(2.657-6.569)		16046	1.41	
A	57 C10-C12	4.824	(3.879-5.769)		9235	0.9406	
	24 Dodecane	5.761	5.769	-0.008	744	NC	
A	3 C9 - C17	5.965	(2.657-9.273)		83352	5.97	
A	47 C9 - C18	6.253	(2.657-9.850)		138264	12.3	
A	60 C10-C16	6.262	(3.879-8.644)		61108	4.96	
A	15 Kerosene	6.531	(2.657-10.405)		189818	16.9	
A	25 C9-C19	6.531	(2.657-10.405)		189818	13.6	
	26 C13	6.527	6.569	-0.042	1676	NC	
$	27 n-Decanoic Acid (Surr)		7.186			ND	U
A	59 C12-C16	7.207	(5.769-8.644)		52617	5.36	
A	62 C10-C20	7.409	(3.879-10.939)		273910	27.9	
A	28 C9-C24	7.758	(2.657-12.858)		877132	89.3	
A	29 C9-C25	7.975	(2.657-13.293)		1057136	107.7	
A	54 C10-C23	8.143	(3.879-12.408)		724957	73.8	
A	4 C10-C24	8.369	(3.879-12.858)		875573	89.2	
A	16 C10-C25	8.586	(3.879-13.293)		1055577	107.5	
	45 Hexadecane	8.642	8.644	-0.002	7437	NC	
A	14 C10-C26	8.795	(3.879-13.711)		1227834	125.1	
A	67 C12-C22	8.854	(5.769-11.938)		497239	50.6	
A	5 Diesel	9.192	(3.879-14.506)		1631408	166.2	
A	32 C10-C28	9.192	(3.879-14.506)		1631408	166.2	
A	12 Unknown Hydrocarbons	9.192	(3.879-14.506)		1631408	NC	
A	30 C13-C22	9.254	(6.569-11.938)		492919	50.2	
	44 Heptadecane	9.289	9.273	0.016	14490	NC	
A	31 C12-C24	9.314	(5.769-12.858)		867082	88.3	
	49 n-Octadecane	9.837	9.850	-0.013	6833	NC	
A	52 Mineral oil	9.939	(2.657-17.220)		3786596	339.3	
A	9 Crude Oil Range Organics (	9.939	(2.657-17.220)		3786596	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.939	(2.657-17.220)		3437471	NC	
33 C19	10.409	10.405	0.004	17105	NC	
A 64 C13-C28	10.537	(6.569-14.506)		1618597	164.9	
A 17 C10-C36	10.549	(3.879-17.220)		3435912	350.0	
A 13 C9-C40	10.703	(2.657-18.749)		4580703	556.1	
A 68 Crude Oil Range Organics (	10.703	(2.657-18.749)		4580703	NC	
A 58 C16-C24	10.751	(8.644-12.858)		821902	83.7	
61 icosane	10.944	10.939	0.005	25373	NC	
A 6 C10-C40	11.314	(3.879-18.749)		4576354	555.7	
$ 34 p-Terphenyl	11.910	11.913	-0.003	283283	24.7	
35 n-Docosane	12.024	11.938	0.086	26424	NC	
A 18 C12-C40	12.259	(5.769-18.749)		4555353	553.5	
36 Tricosane	12.403	12.408	-0.005	61668	NC	
A 66 C13-C40	12.659	(6.569-18.749)		4285824	521.0	
37 n-Tetracosane	12.852	12.858	-0.006	61091	NC	
A 2 C16-C36 ORO	12.932	(8.644-17.220)		2816275	394.8	
38 C25	13.291	13.293	-0.001	62450	NC	
A 19 C16-C40	13.697	(8.644-18.749)		4435349	539.3	
46 n-Hexacosane	13.709	13.711	-0.002	52258	NC	
A 20 C19-C36	13.812	(10.405-17.220)		2323272	297.9	
A 55 C23-C32	14.176	(12.408-15.945)		1727738	420.6	
39 n-Octacosane		14.506			ND	
65 C29	14.880	14.883	-0.003	110776	NC	
A 40 C24-C36	15.039	(12.858-17.220)		2248673	393.9	
A 7 Motor Oil	15.039	(12.858-17.220)		2248673	393.9	
A 50 C25-C36	15.256	(13.293-17.220)		2078395	386.2	
A 10 C22-C40	15.344	(11.938-18.749)		2953781	372.9	
A 41 C23-C40	15.579	(12.408-18.749)		3074690	397.7	
A 8 C24-C40	15.804	(12.858-18.749)		2917703	391.2	
56 Dotriacontane	15.899	15.945	-0.046	107192	NC	
A 51 C28-C40	16.628	(14.506-18.749)		2169047	414.7	
A 63 C29-C40	16.816	(14.883-18.749)		1957790	418.3	
42 n-Hexatriacontane		17.220			ND	
43 C40		18.749			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

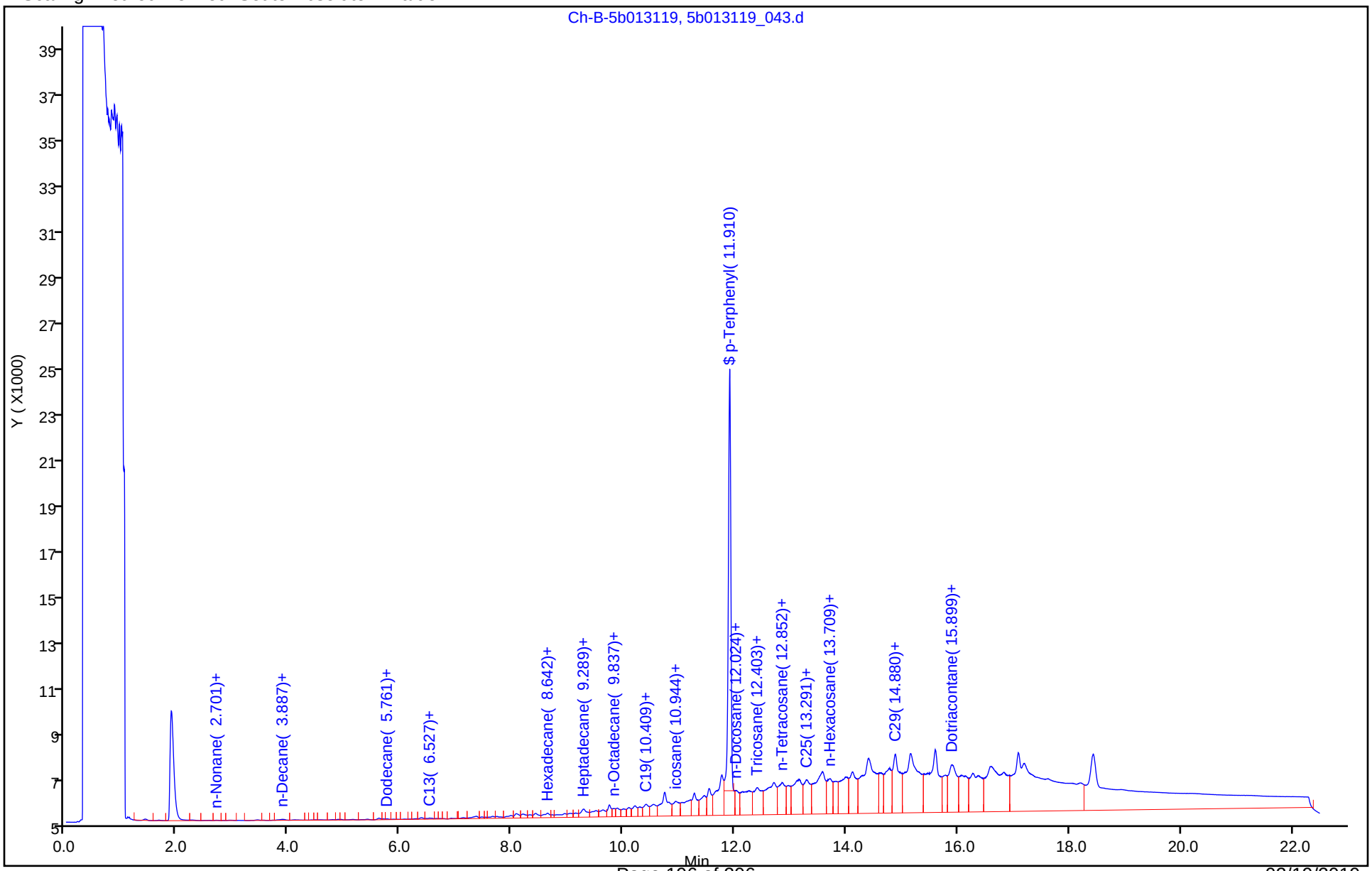
Report Date: 01-Feb-2019 13:07:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_043.d

Injection Date:	01-Feb-2019 04:55:34	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91048-E-29-F	Lab Sample ID:	720-91048-29	Worklist Smp#:	43
Client ID:	DG-AF13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_043.d				
Lims ID:	720-91048-E-29-F				
Client ID:	DG-AF13S-3.5-4				
Sample Type:	Client				
Inject. Date:	01-Feb-2019 04:55:34	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 118 Name: 720-0056377-043				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	01-Feb-2019 13:07:45	Calib Date:	31-Jan-2019 08:51:58		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0313				

First Level Reviewer: luj Date: 01-Feb-2019 13:07:45

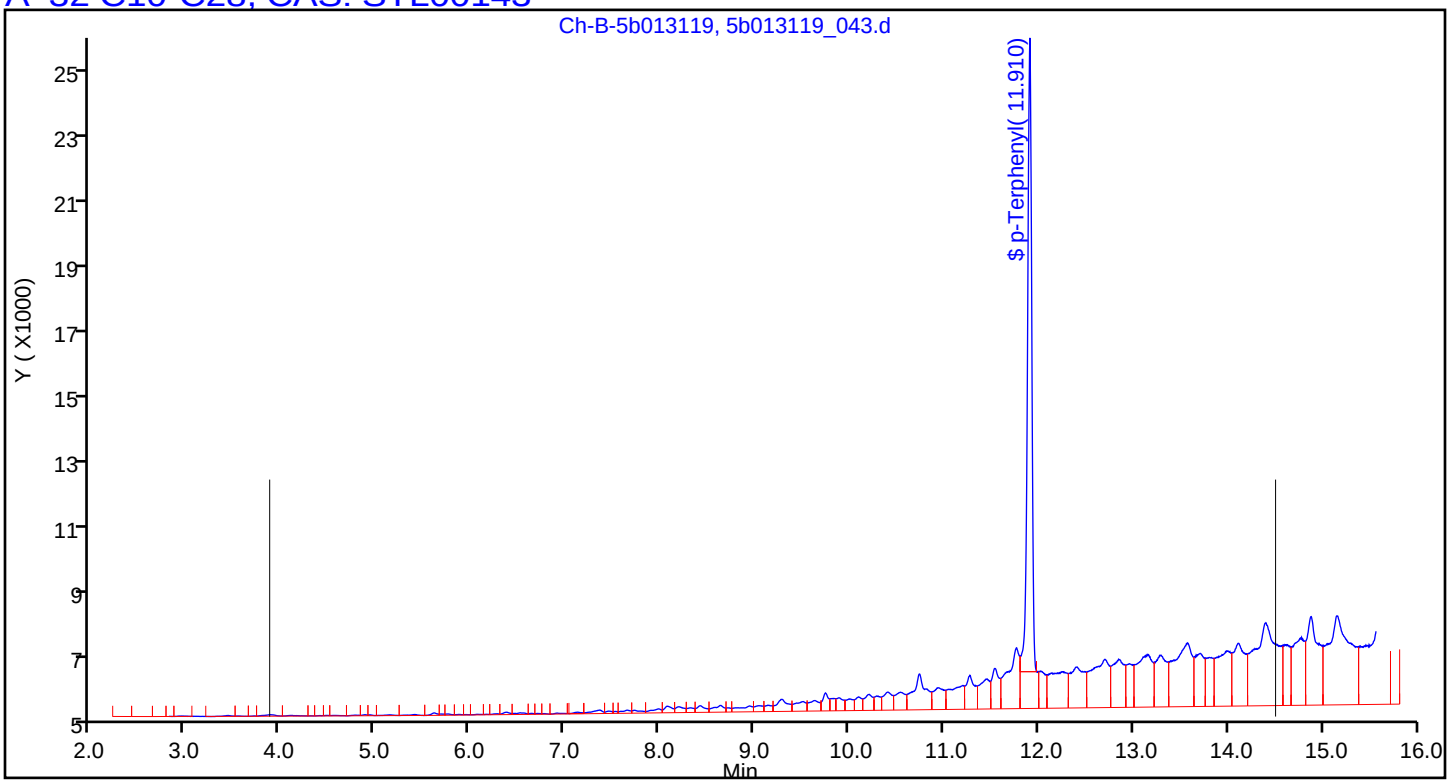
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	24.7	98.66

Report Date: 01-Feb-2019 13:07:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_043.d				
Injection Date:	01-Feb-2019 04:55:34	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-29-F	Lab Sample ID:	720-91048-29		
Client ID:	DG-AF13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

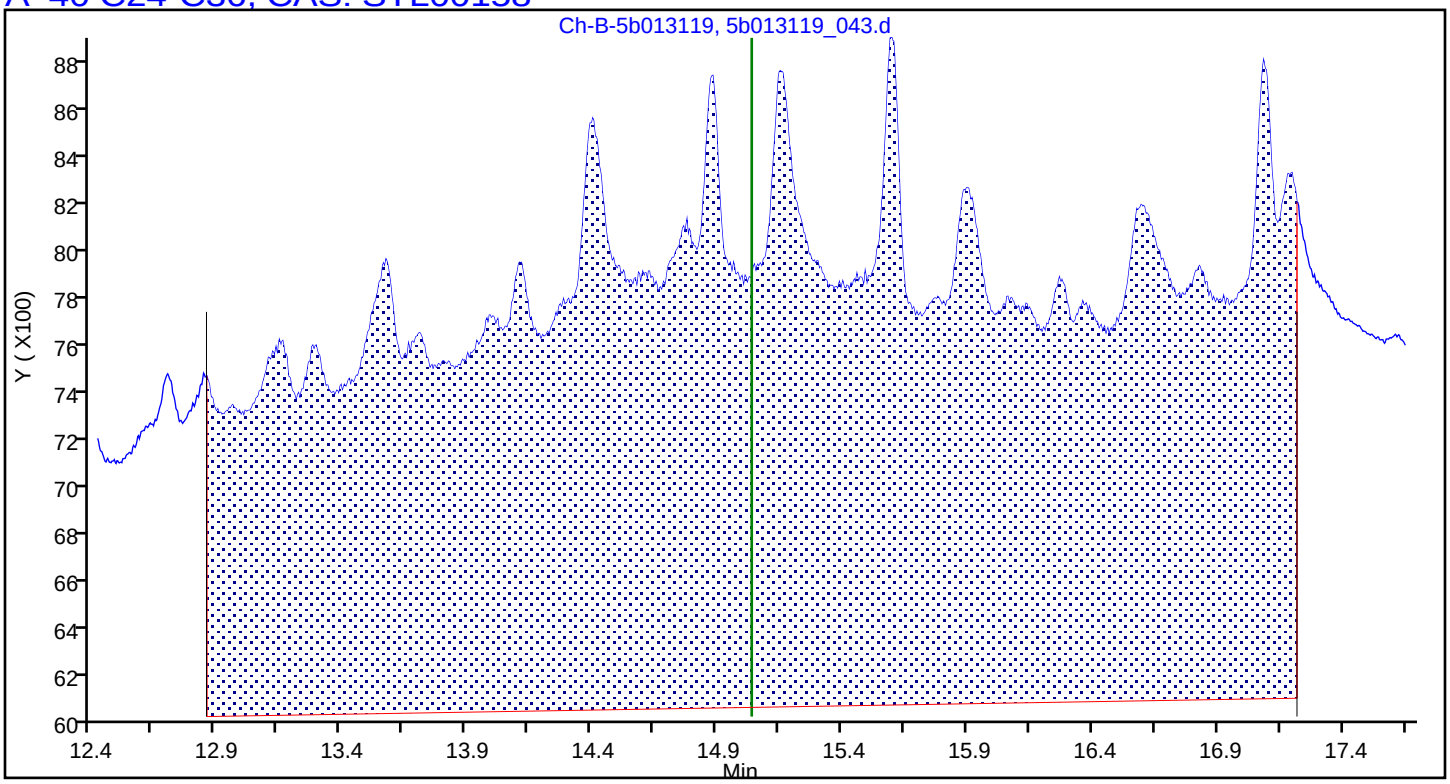


Report Date: 01-Feb-2019 13:07:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190131-56377.b\5b013119_043.d				
Injection Date:	01-Feb-2019 04:55:34	Instrument ID:	CHDRO5		
Lims ID:	720-91048-E-29-F	Lab Sample ID:	720-91048-29		
Client ID:	DG-AF13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91048

Chain of Custody Record

188135

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 28 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaltman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91048 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
1	DG-Z17s-0.5-1	28 Jan. 2019	0810	G	S	7	N		X	X	X	X	X	X	X	
2	DG-Z17s-3.5-4		0810													
3	DG-Z17s-7.5-8		0810													
4	DG-Y19s-0.5-1		0840													
5	DG-Y19s-3.5-4		0840													
6	DG-Y19s-7.5-8		0840													
7	DG-V17s-0.5-1		0920													
8	DG-V17s-3.5-4		0920													
9	DG-V17s-9.5-10		0920													
10	DG-U15s-0.5-1		0950													
11	DUP-122		—													
12	DUP-124		—													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

13.5°C / 15.2°C / 6.7°C / 16.4°C / 2.2°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company: Geosyntec	Date/Time: 1624 28 Jan. 2019	Received by: Rajat G	Company: S.C.S	Date/Time: 1-28-19 16:20
Relinquished by: Rajat G	Company: S.C.S	Date/Time: 1-28-19 6:3[illegible]	Received by:	Company: TAPLS	Date/Time: 1/28/19 1820
Relinquished by	Company	Date/Time.	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/19/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

Chain of Custody Record

185135

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 28 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schatman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client.
bchen@geosyntec com, mkahnias@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13	DG-U15s-3.5-4	28 Jan. 2019	0950	G	S	7	N		X	X	X	X	X	X	X	
14	DG-U15s-8.5-9		0950													
15	DG-T17s-0.5-1		1030													
16	DG-T17s-3.5-4		1030					y								
17	DG-T17s-7-7.5		1030													
18	DG-W15s-0.5-1		1100													
19	DG-W15s-3.5-4		1100					y								
20	DG-X17s-0.5-1		1130													
21	DG-X17s-3.5-4		1130													
22	DG-R13s-0.5-1		1300													
23	DUP-108		—													
24	DUP-121	↓	—	↓	↓	↓	•		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		16.2
Relinquished by Nate Fuhrig	Company Geosyntec	Date/Time 1620 28 Jan. 2019	Received by Rajat S	Company C-C-S	Date/Time 1-28-19
Relinquished by Rajat S	Company C.C.S	Date/Time 1-28-19 1820	Received by	Company TAPLS	Date/Time 1/28/19 1820
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/19/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188135

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 28 January 2019	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schachman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling:
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
25. DG-R13s-3.5-4	28 Jan. 2019	1300	G	S	7	N		X	X	X	X	X	X	X	
26. DG-Z13s-0.5-1		1330													
27. DG-Z13s-3.5-4		1330													
28. DG-AF13s-0.5-1		1500													
29. DG-AF13s-3.5-4		1500													
30. FB-1.28.2019		—													
31. TB-01.28.19															

1/28/19

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____		
Relinquished by	Company Geosyntec	Date/Time 1620 28 Jan 2019	Received by	Company C.C.S	Date/Time 1-28-19 16:20
Relinquished by	Company C.C.S	Date/Time 1-28-19. 6:20	Received by	Company TAPLS	Date/Time 1/28/19 1820
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/19/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3090	COC No: 720-40986.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-Z17S-0.5-1 (720-91048-1)	1/28/19	08:10 Pacific		Solid			X	X	X			5	
DG-Z17S-3.5-4 (720-91048-2)	1/28/19	08:10 Pacific		Solid			X	X	X			5	
DG-Z17S-7.5-8 (720-91048-3)	1/28/19	08:10 Pacific		Solid			X	X	X			5	
DG-Y19S-0.5-1 (720-91048-4)	1/28/19	08:40 Pacific		Solid			X	X	X			5	
DG-Y19S-3.5-4 (720-91048-5)	1/28/19	08:40 Pacific		Solid			X	X	X			5	
DG-Y19S-7.5-8 (720-91048-6)	1/28/19	08:40 Pacific		Solid			X	X	X			5	
DG-V17S-0.5-1 (720-91048-7)	1/28/19	09:20 Pacific		Solid			X	X	X			5	
DG-V17S-3.5-4 (720-91048-8)	1/28/19	09:20 Pacific		Solid			X	X	X			5	
DG-V17S-9.5-10 (720-91048-9)	1/28/19	09:20 Pacific		Solid			X	X	X			5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/29/19 1234	TAPS			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1/30/19 1015	Company TA IRV

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.: Terracores IR88 -27.0/-27.0

Cooler Temperature(s) °C and Other Remarks: 2.8/1.8 2.6/1.6 IR-66

Encores or Terracores Frozen Date: 01/30/19 Time: 12:19 Initials: CO

Ver: 09/20/2016

02/19/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40986.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 17461 Derian Ave, Suite 100.	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-U17S-0.5-1 (720-91048-10)	1/28/19	09:50 Pacific		Solid			X	X	X			5	
DUP-122 (720-91048-11)	1/28/19	Pacific		Solid			X	X	X			5	
DUP-124 (720-91048-12)	1/28/19	Pacific		Solid			X	X	X			5	
DG-U15S-3.5-4 (720-91048-13)	1/28/19	09:50 Pacific		Solid			X	X	X			5	
DG-U15S-8.5-9 (720-91048-14)	1/28/19	09:50 Pacific		Solid			X	X	X			5	
DG-T17S-0.5-1 (720-91048-15)	1/28/19	10:30 Pacific		Solid			X	X	X			5	
DG-T17S-3.5-4 (720-91048-16)	1/28/19	10:30 Pacific		Solid			X	X	X			4	
DG-T17S-3.5-4 (720-91048-16MS)	1/28/19	10:30 Pacific	MS	Solid			X	X	X			3	
DG-T17S-3.5-4 (720-91048-16MSD)	1/28/19	10:30 Pacific	MSD	Solid			X	X	X			2	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	1/29/19 1234	TAPLS			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by [signature] Olga Omelas	Date/Time 1/30/19 1015	Company TALIRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

02/19/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s)	COC No: 720-40986.3
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-T17S-7-7.5 (720-91048-17)	1/28/19	10:30 Pacific		Solid			X	X	X			5	
DG-W15S-0.5-1 (720-91048-18)	1/28/19	11.00 Pacific		Solid			X	X	X			5	
DG-W15S-3.5-4 (720-91048-19)	1/28/19	11:00 Pacific		Solid			X	X	X			4	
DG-W15S-3 5-4 (720-91048-19MS)	1/28/19	11 00 Pacific	MS	Solid			X	X	X			3	
DG-W15S-3.5-4 (720-91048-19MSD)	1/28/19	11:00 Pacific	MSD	Solid			X	X	X			2	
DG-X17S-0.5-1 (720-91048-20)	1/28/19	11:30 Pacific		Solid			X	X	X			5	
DG-X17S-3.5-4 (720-91048-21)	1/28/19	11.30 Pacific		Solid			X	X	X			5	
DG-R13S-0.5-1 (720-91048-22)	1/28/19	13:00 Pacific		Solid			X	X	X			5	
DUP-108 (720-91048-23)	1/28/19	Pacific		Solid			X	X	X			5	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment		
Relinquished by	Date/Time: 1/29/19 1234	Company: TAPLS	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by: Olga Cuellar	Date/Time 1/30/19 1015	Company TAIRU
Custody Seals Intact: Δ Yes Δ No	Custody Seal No..		Cooler Temperature(s) °C and Other Remarks:		

Ver. 09/20/2016

02/19/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40986.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91048-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DUP-121 (720-91048-24)	1/28/19	Pacific		Solid			X	X	X			5	
DG-R13S-3.5-4 (720-91048-25)	1/28/19	13:00 Pacific		Solid			X	X	X			5	
DG-Z13S-0.5-1 (720-91048-26)	1/28/19	13.30 Pacific		Solid			X	X	X			5	
DG-Z13S-3.5-4 (720-91048-27)	1/28/19	13:30 Pacific		Solid			X	X	X			5	
DG-AF13S-0.5-1 (720-91048-28)	1/28/19	15:00 Pacific		Solid			X	X	X			5	
DG-AF13S-3.5-4 (720-91048-29)	1/28/19	15:00 Pacific		Solid			X	X	X			5	
FB-1 28.2019 (720-91048-30)	1/28/19	Pacific		Water						X	X	2	check for 2 phases
TB-1.28.2019 (720-91048-31)	1/28/19	Pacific		Water						X	X	2	check for 2 phases

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment

Relinquished by	Date/Time: 1/29/19 1234	Company: TAPL	Received by	Date/Time.	Company
Relinquished by:	Date/Time.	Company	Received by:	Date/Time	Company
Relinquished by	Date/Time.	Company	Received by: Olga Amelas	Date/Time 1/30/19 1015	Company TAKL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91051-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Laura Turpen
Project Manager I
2/15/2019 9:51 AM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/15/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Table of Contents

Cover Title Page 1

Organic Sample Data 3

GC Semi VOA 3

Method 8015B - DRO 3

Method 8015B - DRO Sample Data 3

Shipping and Receiving Documents 28

Client Chain of Custody 28

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a033.d				
Lims ID:	720-91051-F-1-A				
Client ID:	DG-Z17W				
Sample Type:	Client				
Inject. Date:	01-Feb-2019 23:42:44	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:29:52	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:29:52		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.562	(1.883-7.240)		7656172	2317.4	
$ 127 n-Octacosane	7.107	7.097	0.010	602265	184.9	
A 136 C24-C36	7.540	(5.898-9.182)		4516351	1367.0	

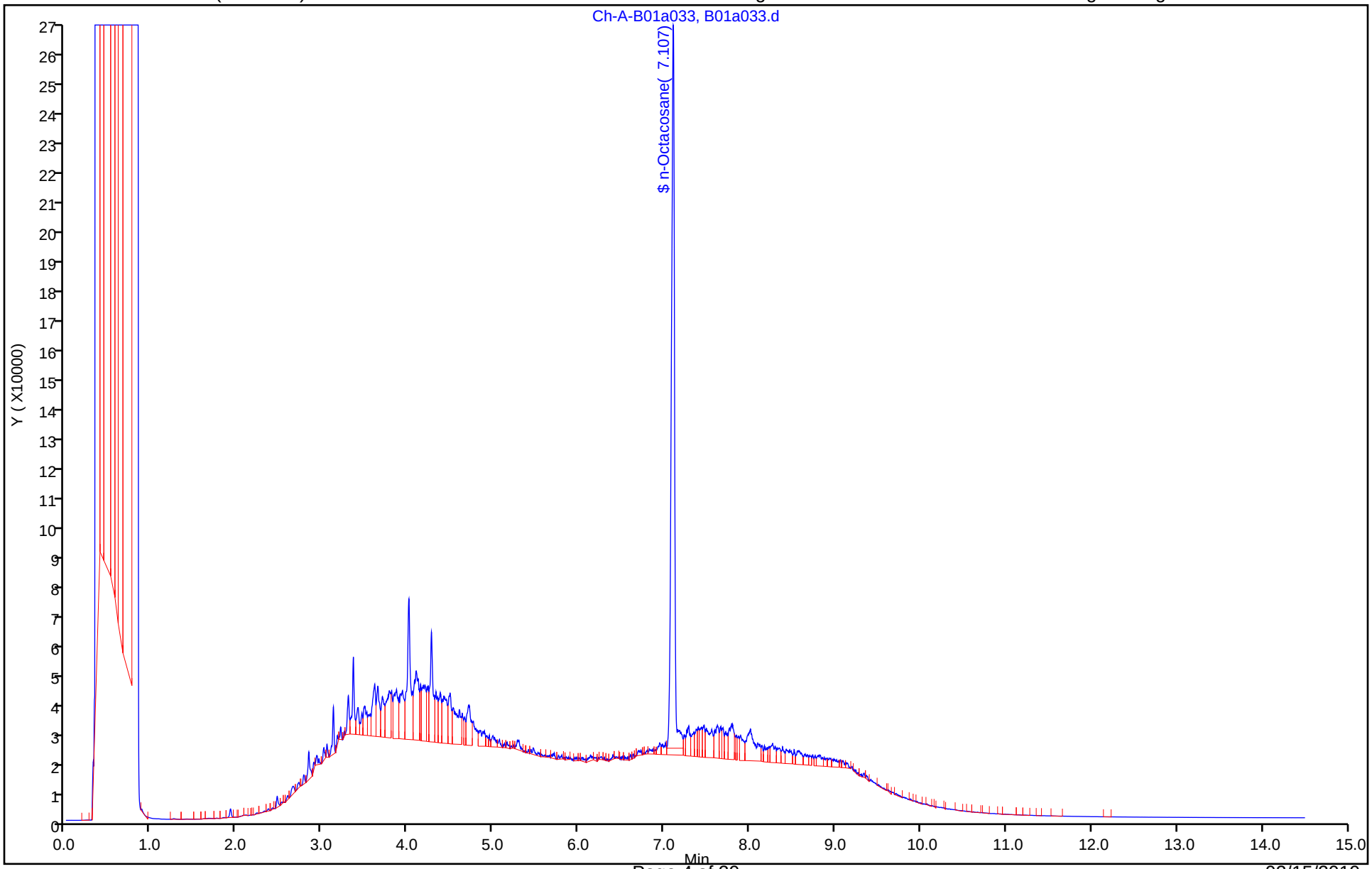
Report Date: 04-Feb-2019 17:29:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a033.d

Injection Date:	01-Feb-2019 23:42:44	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91051-F-1-A	Lab Sample ID:	440-91051-1	Worklist Smp#:	31
Client ID:	DG-Z17W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a033.d				
Lims ID:	720-91051-F-1-A				
Client ID:	DG-Z17W				
Sample Type:	Client				
Inject. Date:	01-Feb-2019 23:42:44	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:29:52	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:29:52

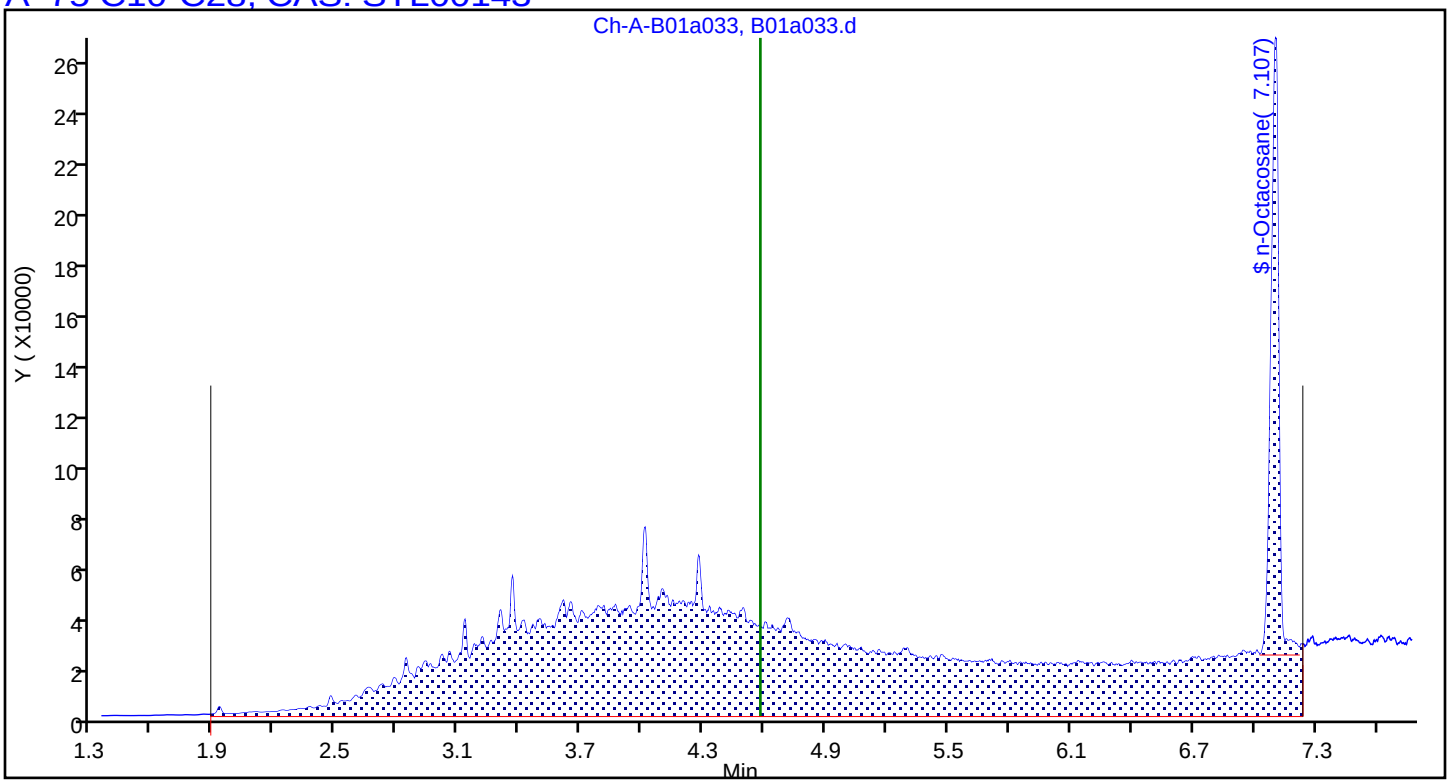
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	184.9	92.43

Report Date: 04-Feb-2019 17:29:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a033.d				
Injection Date:	01-Feb-2019 23:42:44	Instrument ID:	GC69A		
Lims ID:	720-91051-F-1-A	Lab Sample ID:	440-91051-1		
Client ID:	DG-Z17W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

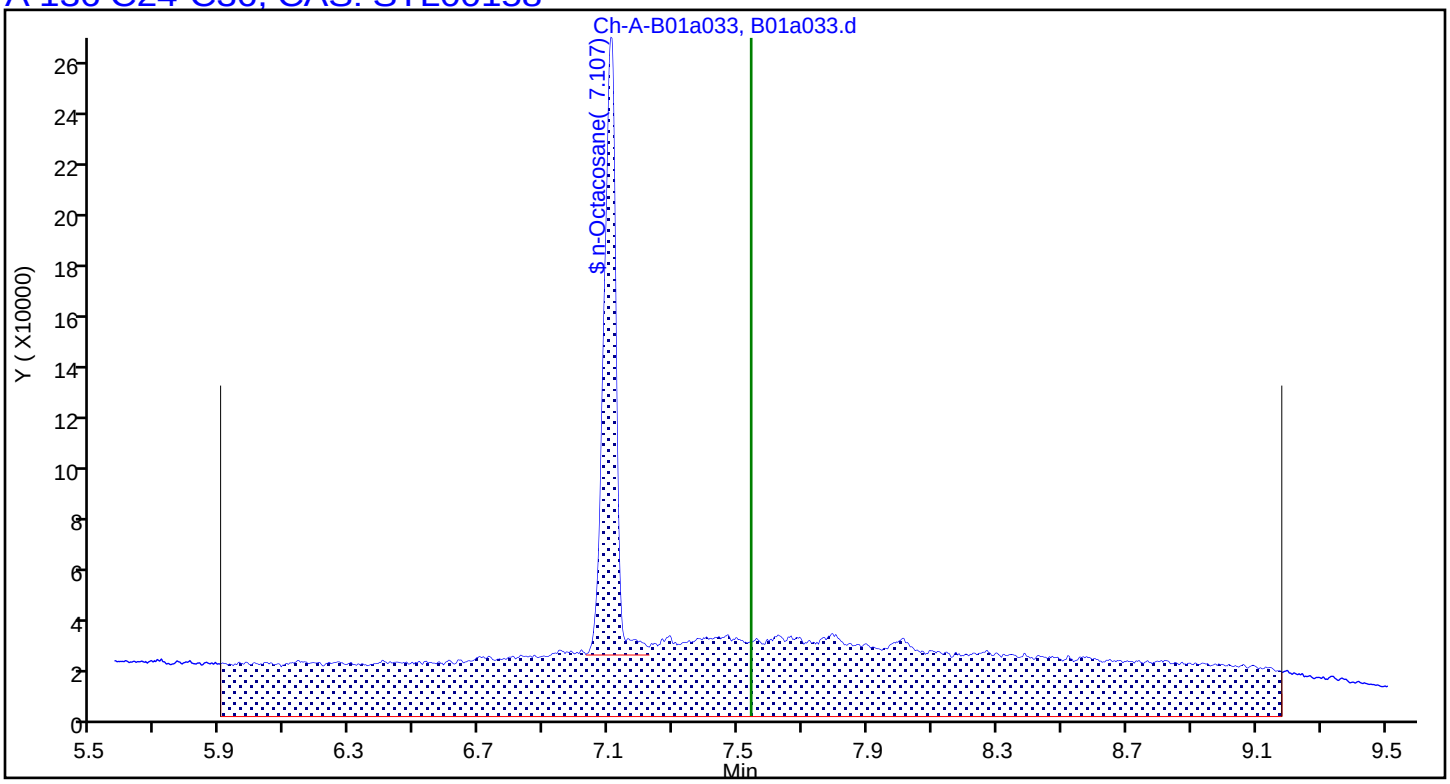


Report Date: 04-Feb-2019 17:29:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a033.d				
Injection Date:	01-Feb-2019 23:42:44	Instrument ID:	GC69A		
Lims ID:	720-91051-F-1-A	Lab Sample ID:	440-91051-1		
Client ID:	DG-Z17W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a032.d				
Lims ID:	720-91051-E-2-A				
Client ID:	DG-X17W				
Sample Type:	Client				
Inject. Date:	01-Feb-2019 23:22:35	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:28:10	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:28:10		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.579	(1.872-7.287)		6502513	1968.2	
$ 127 n-Octacosane	7.102	7.097	0.005	527458	161.9	
A 136 C24-C36	7.540	(5.898-9.182)		1564366	473.5	

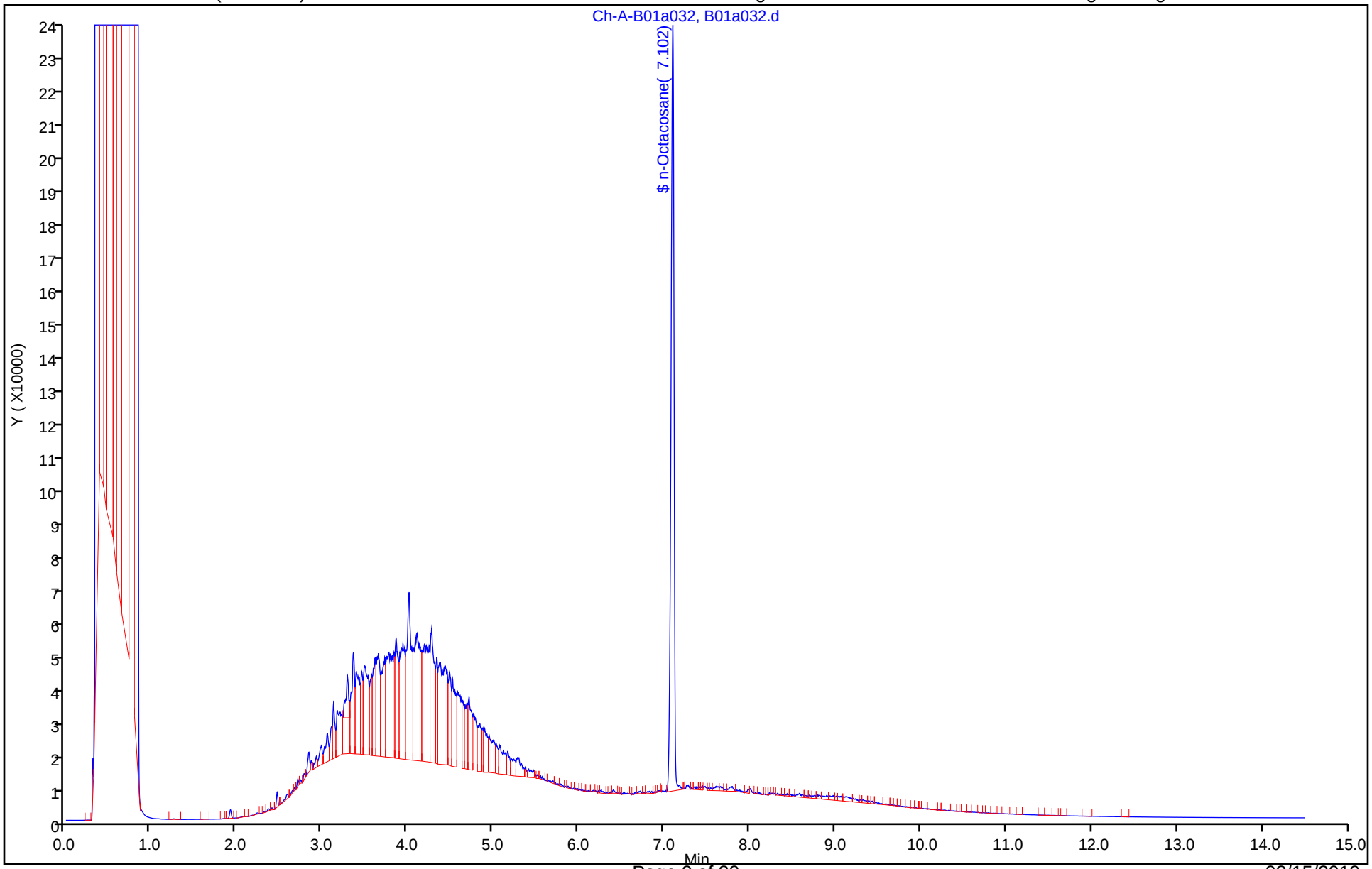
Report Date: 04-Feb-2019 17:28:10 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a032.d

Injection Date:	01-Feb-2019 23:22:35	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91051-E-2-A	Lab Sample ID:	440-91051-2	Worklist Smp#:	30
Client ID:	DG-X17W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a032.d				
Lims ID:	720-91051-E-2-A				
Client ID:	DG-X17W				
Sample Type:	Client				
Inject. Date:	01-Feb-2019 23:22:35	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:28:10	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:28:10

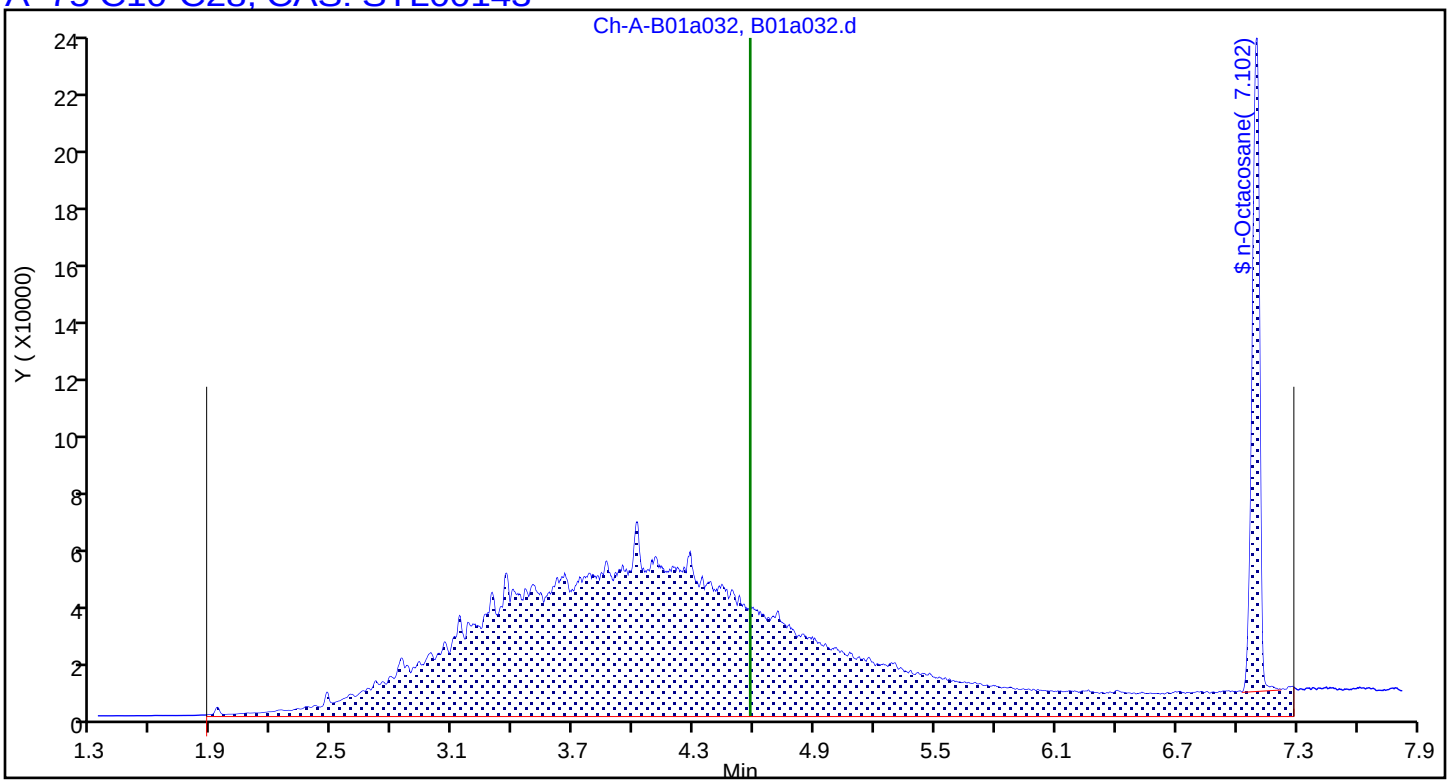
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	161.9	80.95

Report Date: 04-Feb-2019 17:28:10 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a032.d				
Injection Date:	01-Feb-2019 23:22:35	Instrument ID:	GC69A		
Lims ID:	720-91051-E-2-A	Lab Sample ID:	440-91051-2		
Client ID:	DG-X17W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

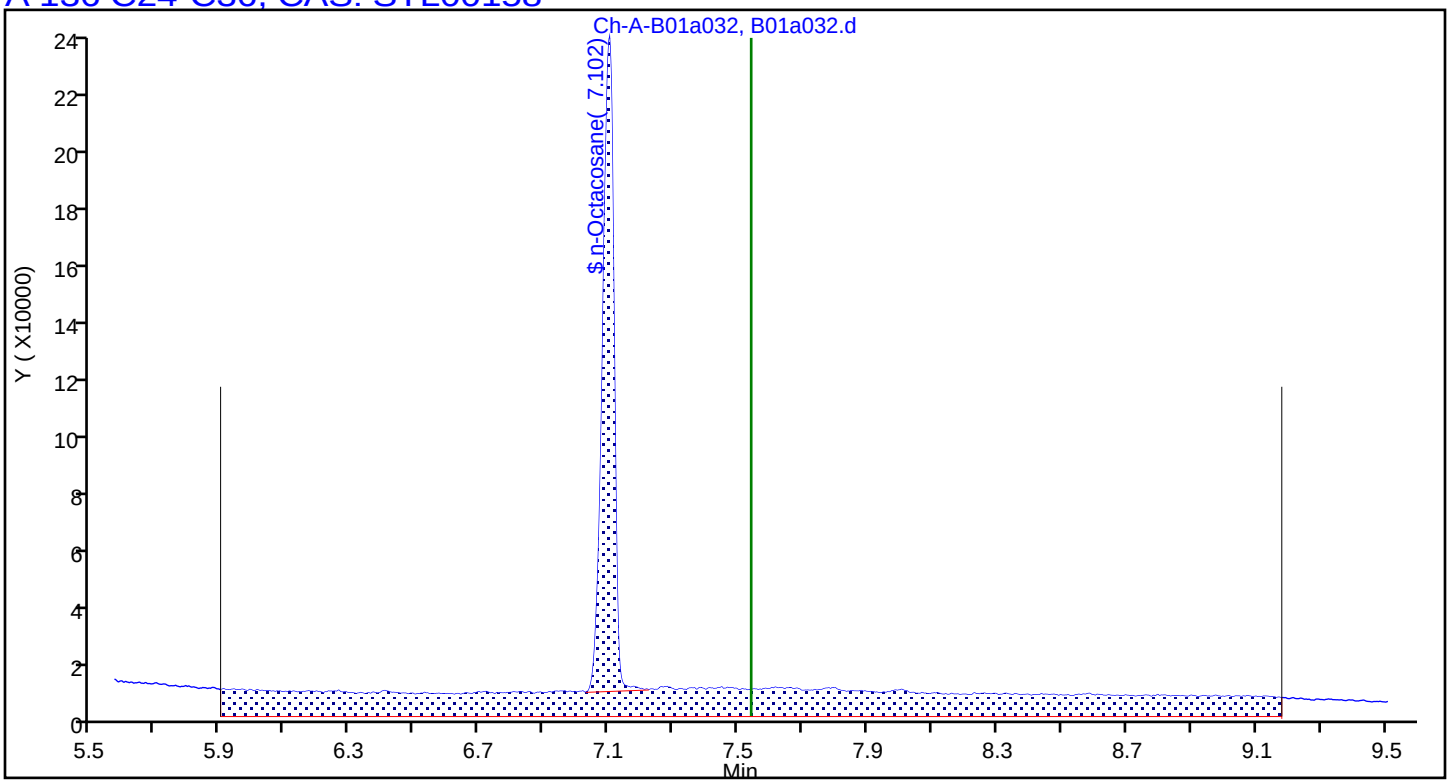


Report Date: 04-Feb-2019 17:28:10 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a032.d				
Injection Date:	01-Feb-2019 23:22:35	Instrument ID:	GC69A		
Lims ID:	720-91051-E-2-A	Lab Sample ID:	440-91051-2		
Client ID:	DG-X17W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a036.d				
Lims ID:	720-91051-F-3-A				
Client ID:	DG-V17W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 00:43:49	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:30:59	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:30:59		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.579	(1.872-7.287)		957318	289.8	
$ 127 n-Octacosane	7.100	7.097	0.003	573858	176.1	
A 136 C24-C36	7.540	(5.898-9.182)		921499	278.9	

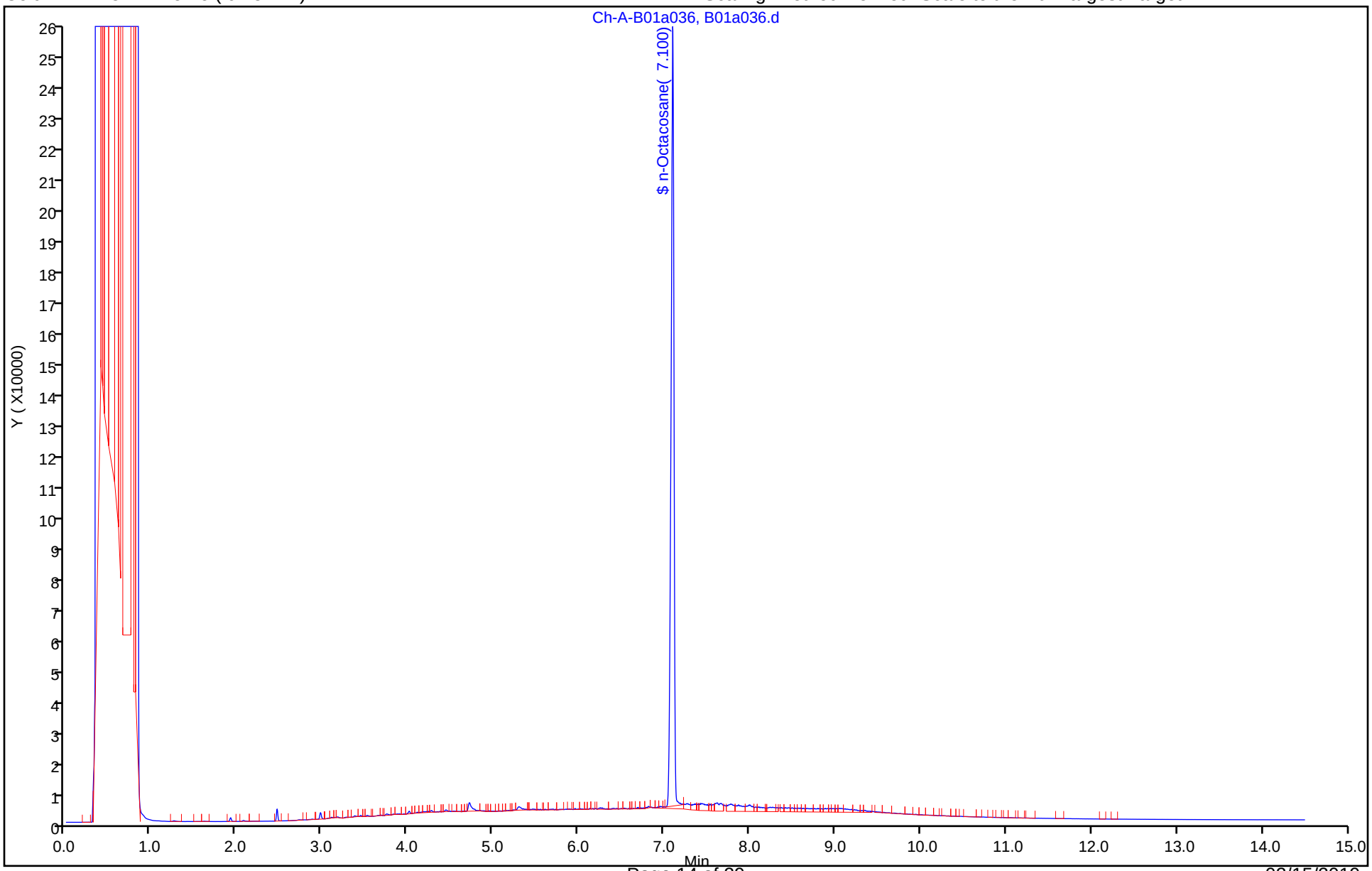
Report Date: 04-Feb-2019 17:31:00 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a036.d

Injection Date:	02-Feb-2019 00:43:49	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91051-F-3-A	Lab Sample ID:	440-91051-3	Worklist Smp#:	34
Client ID:	DG-V17W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a036.d				
Lims ID:	720-91051-F-3-A				
Client ID:	DG-V17W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 00:43:49	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:30:59	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:30:59

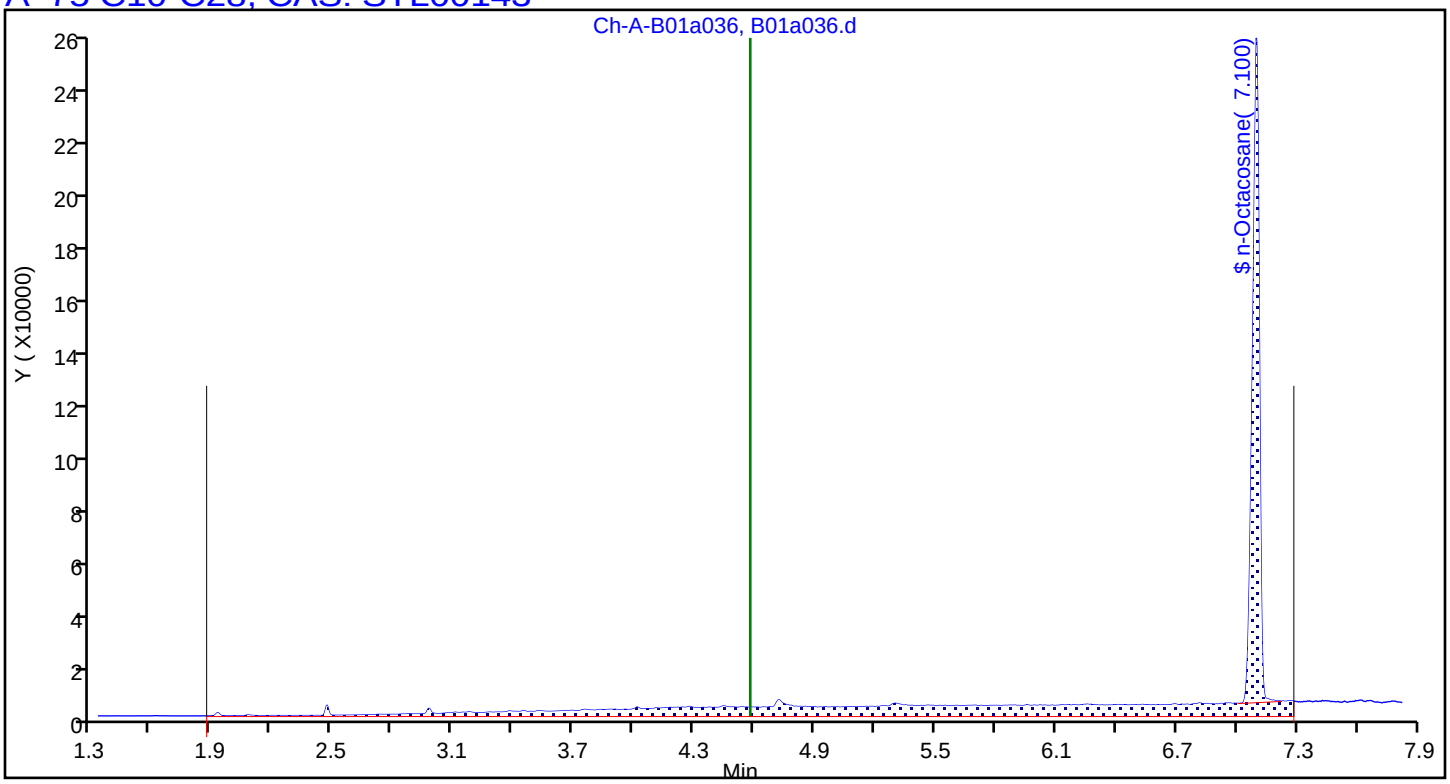
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	176.1	88.07

Report Date: 04-Feb-2019 17:31:00 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a036.d				
Injection Date:	02-Feb-2019 00:43:49	Instrument ID:	GC69A		
Lims ID:	720-91051-F-3-A	Lab Sample ID:	440-91051-3		
Client ID:	DG-V17W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

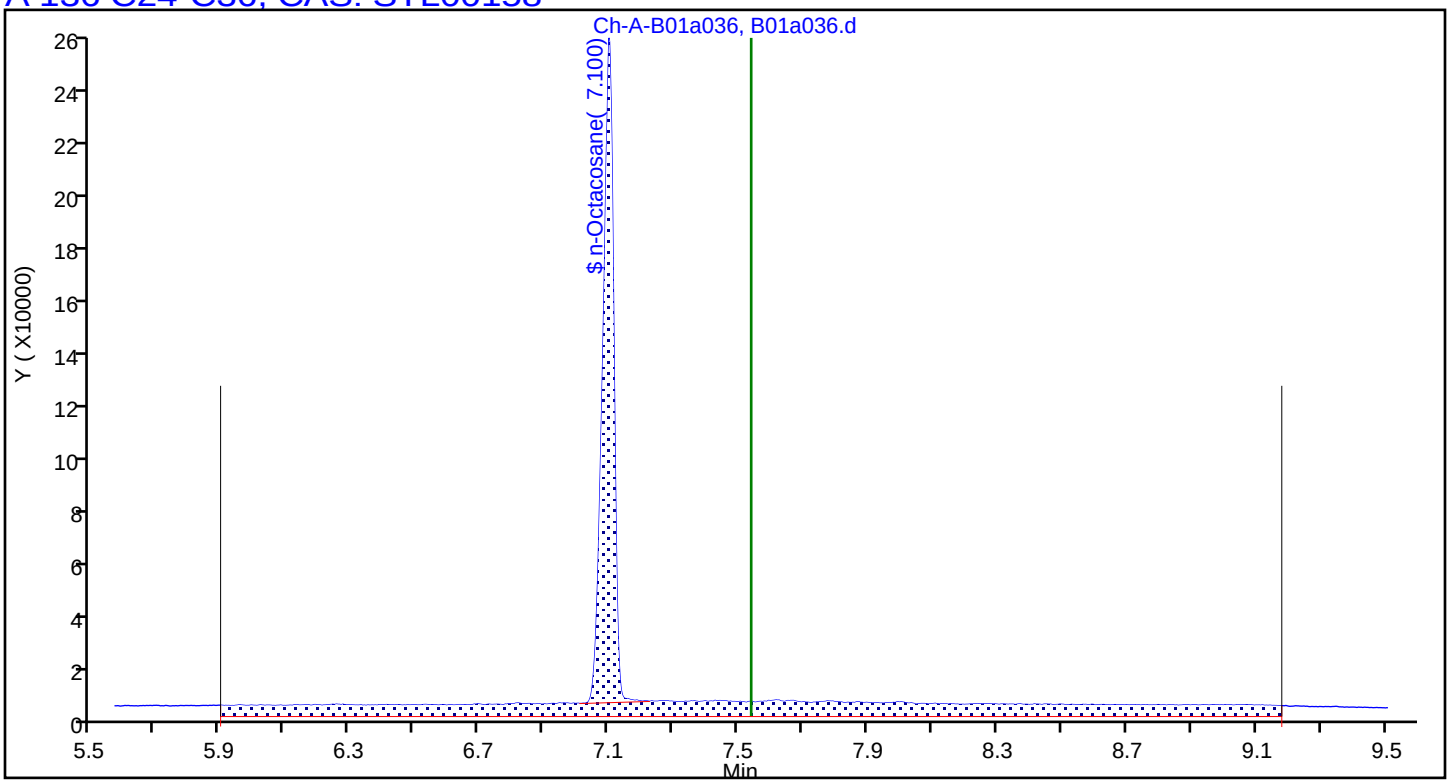


Report Date: 04-Feb-2019 17:31:00 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a036.d				
Injection Date:	02-Feb-2019 00:43:49	Instrument ID:	GC69A		
Lims ID:	720-91051-F-3-A	Lab Sample ID:	440-91051-3		
Client ID:	DG-V17W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a037.d				
Lims ID:	720-91051-F-4-A				
Client ID:	DG-Y19W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 01:04:07	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:31:17	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:31:17		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.588	(1.890-7.287)		1828095	553.3	
$ 127 n-Octacosane	7.095	7.097	-0.002	457256	140.3	
A 136 C24-C36	7.540	(5.898-9.182)		973370	294.6	

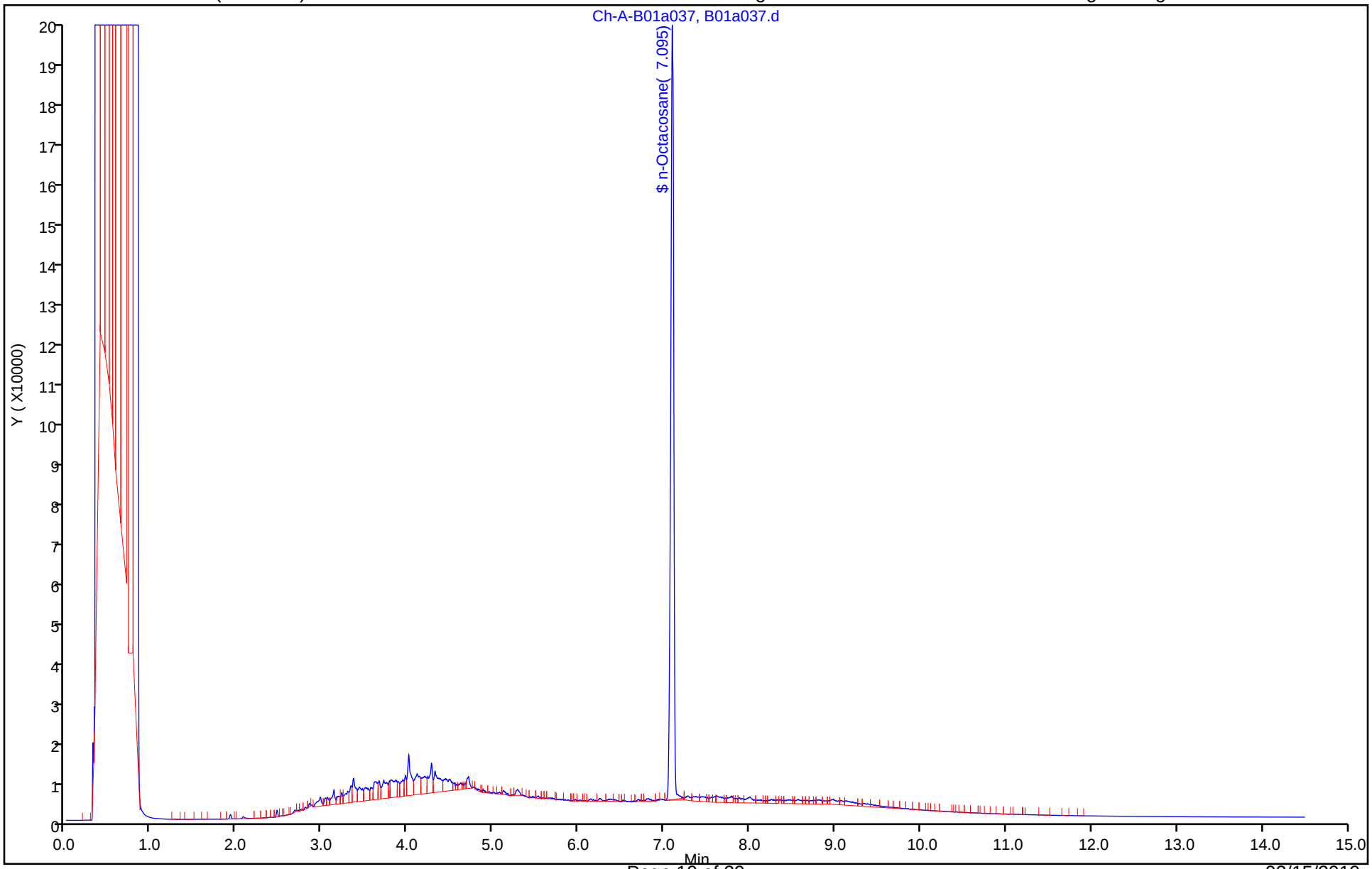
Report Date: 04-Feb-2019 17:31:17 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a037.d

Injection Date:	02-Feb-2019 01:04:07	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91051-F-4-A	Lab Sample ID:	440-91051-4	Worklist Smp#:	35
Client ID:	DG-Y19W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a037.d				
Lims ID:	720-91051-F-4-A				
Client ID:	DG-Y19W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 01:04:07	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:31:17	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:31:17

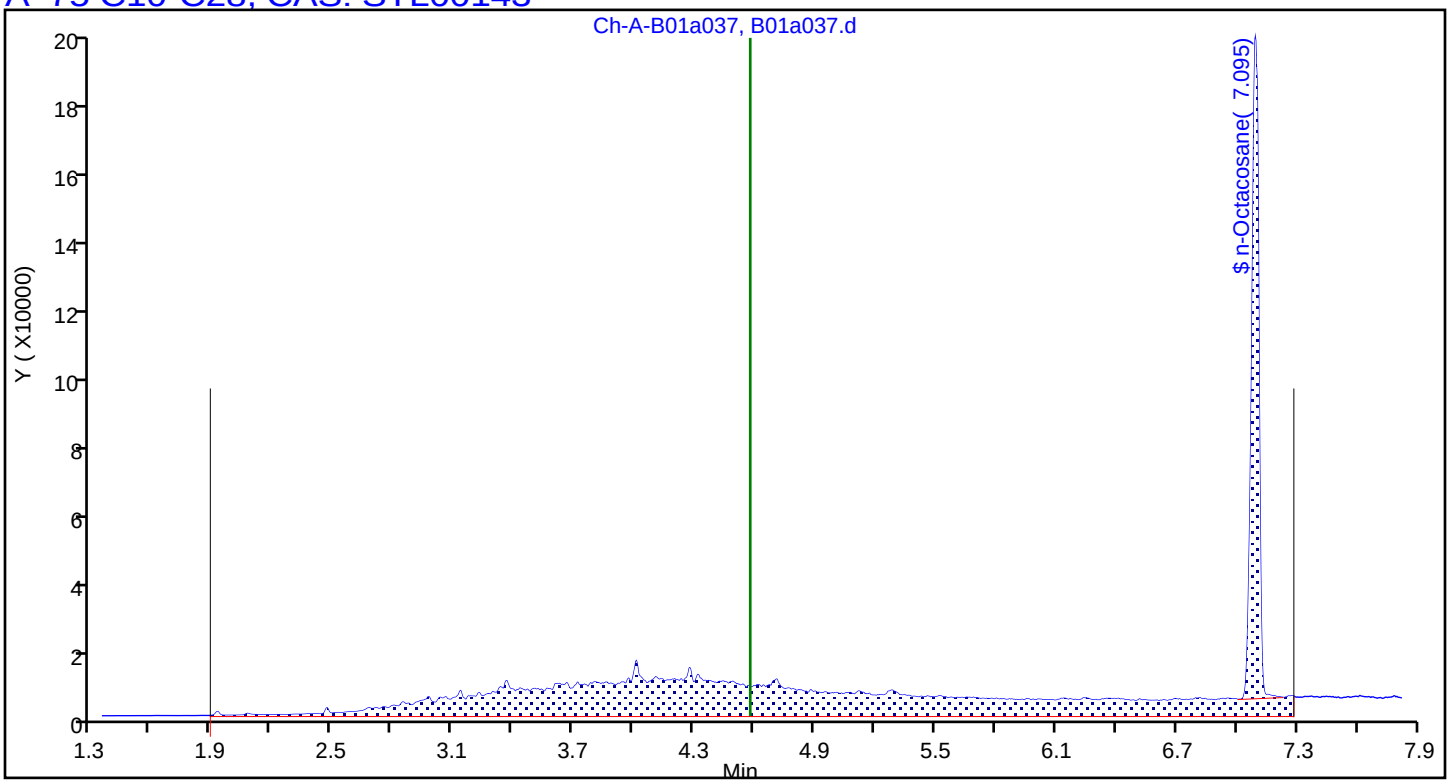
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	140.3	70.17

Report Date: 04-Feb-2019 17:31:17 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a037.d				
Injection Date:	02-Feb-2019 01:04:07	Instrument ID:	GC69A		
Lims ID:	720-91051-F-4-A	Lab Sample ID:	440-91051-4		
Client ID:	DG-Y19W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

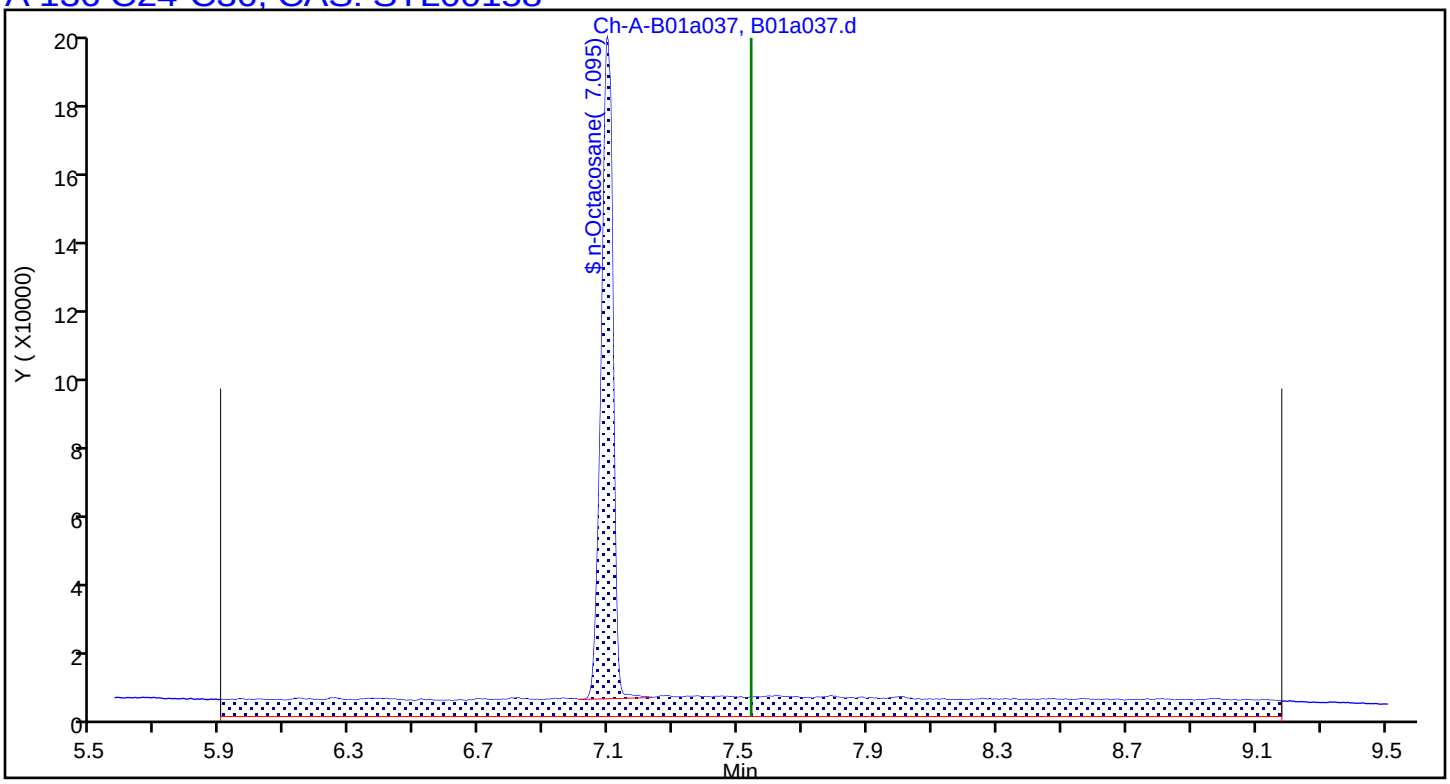


Report Date: 04-Feb-2019 17:31:17 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a037.d				
Injection Date:	02-Feb-2019 01:04:07	Instrument ID:	GC69A		
Lims ID:	720-91051-F-4-A	Lab Sample ID:	440-91051-4		
Client ID:	DG-Y19W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a034.d				
Lims ID:	720-91051-G-5-A				
Client ID:	DG-U15W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 00:03:02	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:30:09	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:30:09		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.579	(1.872-7.287)		4358420	1319.2	
$ 127 n-Octacosane	7.097	7.097	0.000	292390	89.7	
A 136 C24-C36	7.540	(5.898-9.182)		4404697	1333.2	

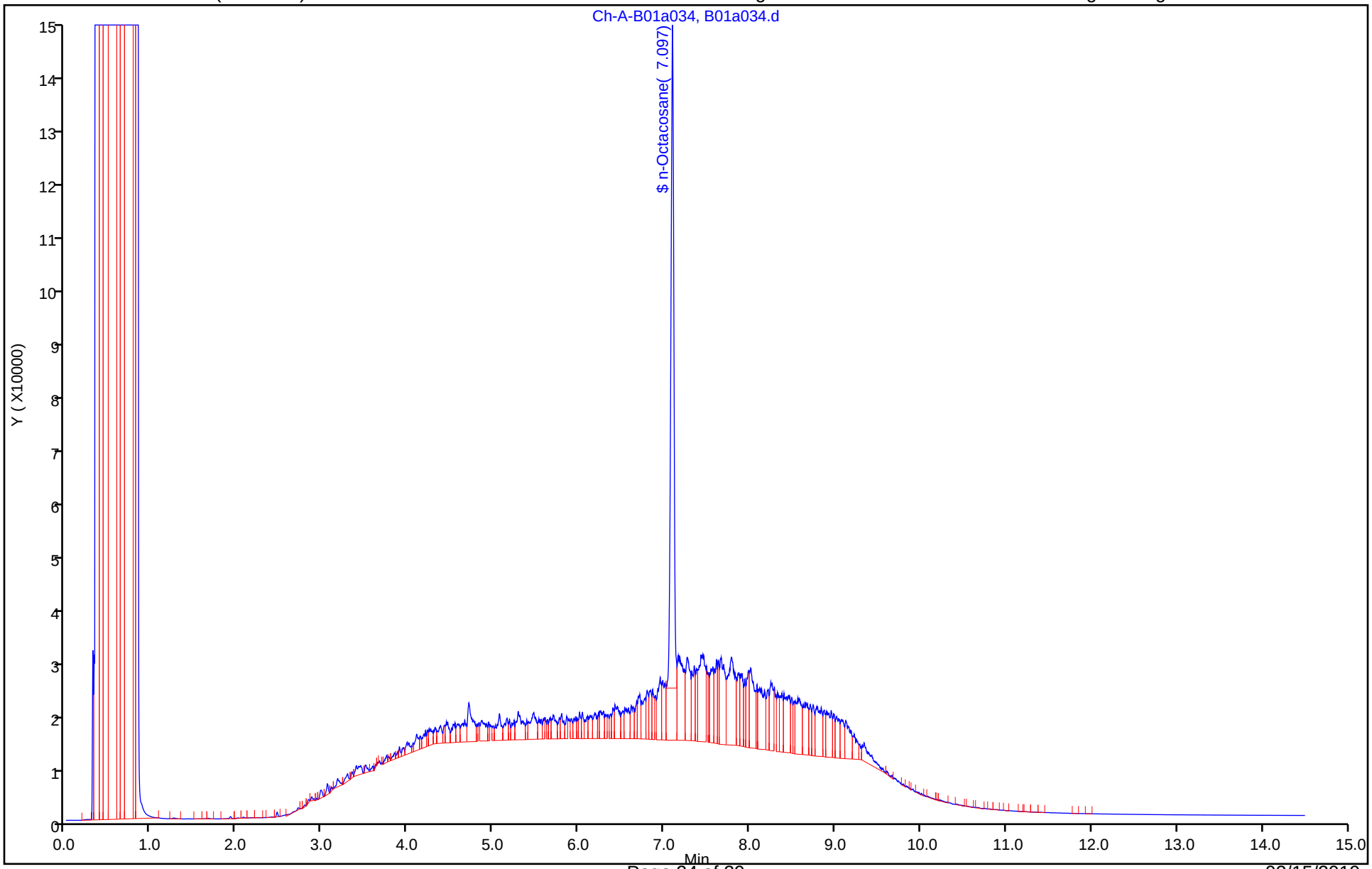
Report Date: 04-Feb-2019 17:30:10 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a034.d

Injection Date:	02-Feb-2019 00:03:02	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91051-G-5-A	Lab Sample ID:	440-91051-5	Worklist Smp#:	32
Client ID:	DG-U15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a034.d				
Lims ID:	720-91051-G-5-A				
Client ID:	DG-U15W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 00:03:02	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:30:09	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:30:09

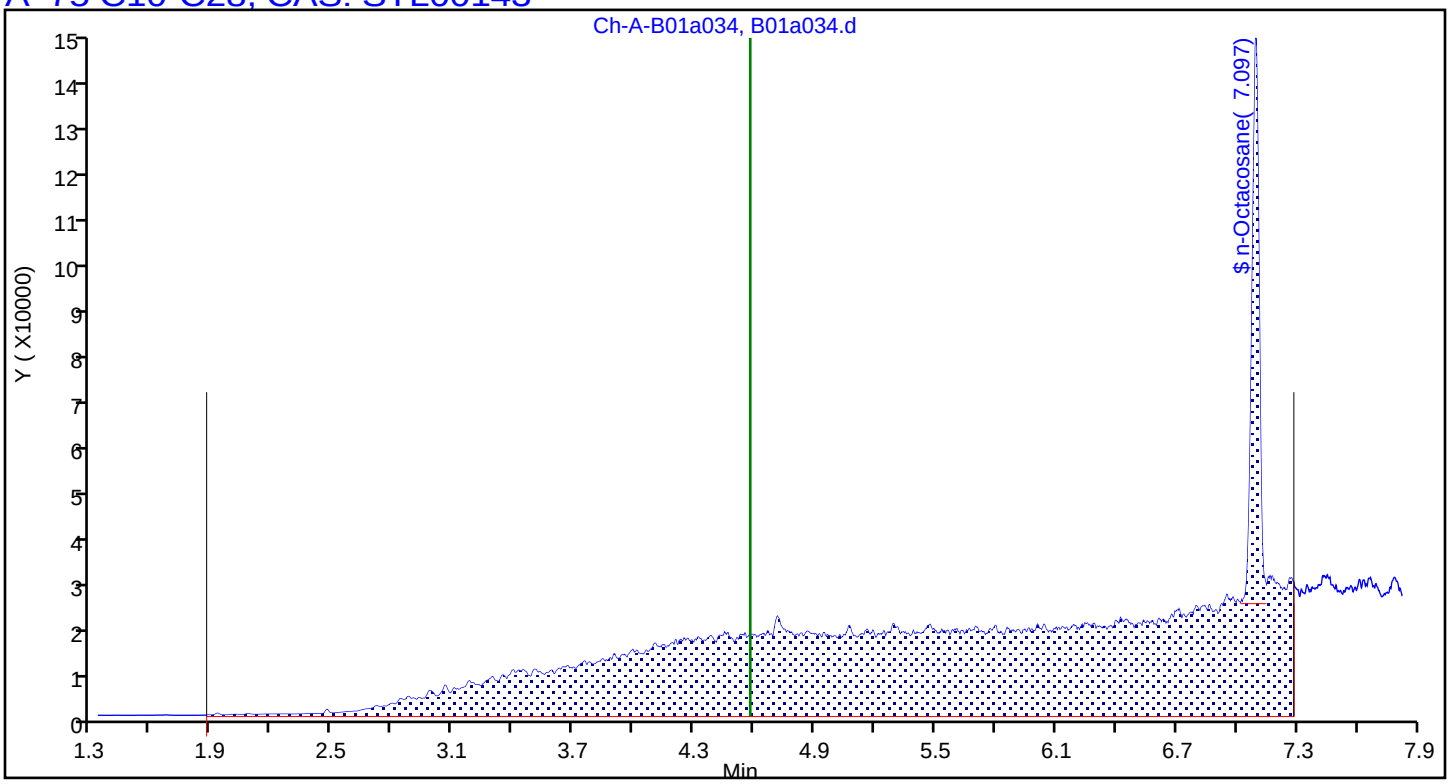
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	89.7	89.74

Report Date: 04-Feb-2019 17:30:10 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a034.d				
Injection Date:	02-Feb-2019 00:03:02	Instrument ID:	GC69A		
Lims ID:	720-91051-G-5-A	Lab Sample ID:	440-91051-5		
Client ID:	DG-U15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

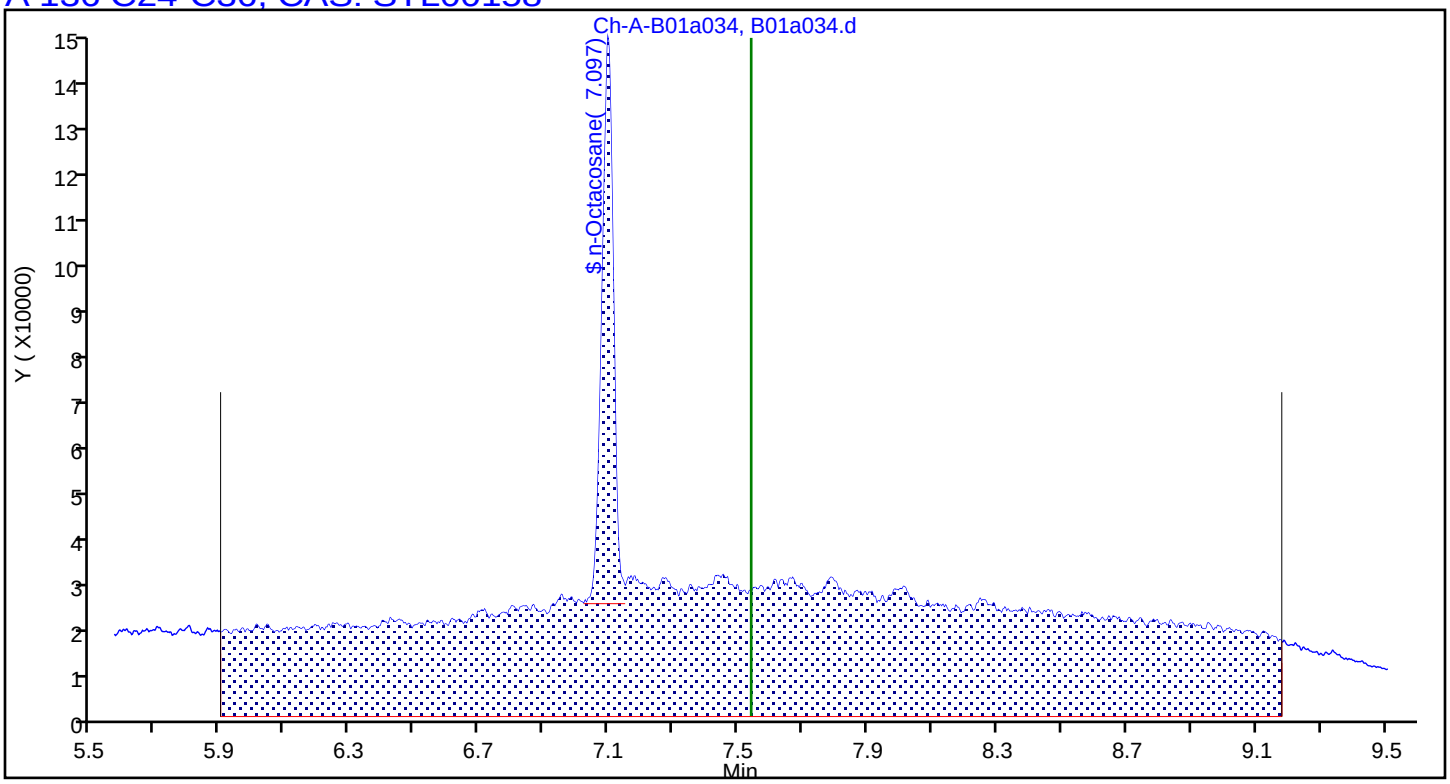


Report Date: 04-Feb-2019 17:30:10 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a034.d				
Injection Date:	02-Feb-2019 00:03:02	Instrument ID:	GC69A		
Lims ID:	720-91051-G-5-A	Lab Sample ID:	440-91051-5		
Client ID:	DG-U15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91051

Chain of Custody Record

188134

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 28 January 2019	COC No.
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schachman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahnfas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91051 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-Z17w	28 Jan. 2019	1140	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-X17w	↓	1320	↓	↓	↓	↓		↓	↓	↓	↓	↓	
DG-V17w		1450											
DG-Y19w		1400											
DG-U15w	↓	1540	↓	↓	↓	↓		↓	↓	↓	↓	↓	
TB-01.28.19					2			X					
FB-1.28.2019	↓				2			X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

13.5°C / 15.2°C / 6.7°C / 16.4°C / 2.2°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____	Therm ID No. ____
Relinquished by [signature]	Company Geosyntec	Date/Time 1620 28 Jan 2019	Received by Pagat G	Company d.c.s	Date/Time 1-28-19 16:20
Relinquished by Pagat G	Company d.c.s	Date/Time 1-28-19 6:20	Received by [signature]	Company TAPLS	Date/Time 1/28/19 1820
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40984.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91051-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/7/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-Z17W (720-91051-1)	1/28/19	11:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-X17W (720-91051-2)	1/28/19	13:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-V17W (720-91051-3)	1/28/19	14:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Y19W (720-91051-4)	1/28/19	14:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-U15W (720-91051-5)	1/28/19	15:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-01.28 19 (720-91051-6)	1/28/19	Pacific		Water			X	X			2	check for 2 phases
FB-01.28.19 (720-91051-7)	1/28/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/29/19 1237	TAPLS			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
					1/30/19 1015	TAPN
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No: 4574 3138	Cooler Temperature(s) °C and Other Remarks: 2.0/1.5 2.0/1.4 IR GUN

Ver: 09/20/2016

02/15/2019

ANALYTICAL REPORT

Job Number: 720-91069-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
2/23/2019 11:12 AM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/23/2019
Revision: 1

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Method 8015B - DRO Sample Data 3

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TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_040.d
Lims ID: 720-91069-E-1-I
Client ID: DG-AH13S-0.5-1
Sample Type: Client
Inject. Date: 10-Feb-2019 05:35:47 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 016 Name: 720-0056518-040
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:23:33 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:23:33

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.529	2.508	0.021	243	NC	
	23 n-Decane	3.772	3.750	0.022	581	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		3980	NC	
A	1 C9-C13	4.489	(2.508-6.469)		3980	NC	
A	57 C10-C12	4.708	(3.750-5.666)		1331	0.1358	
	24 Dodecane		5.666			ND	
A	3 C9 - C17	5.850	(2.508-9.191)		6909	0.5700	
A	47 C9 - C18	6.145	(2.508-9.782)		672658	62.5	
A	60 C10-C16	6.153	(3.750-8.556)		5456	0.4950	
A	25 C9-C19	6.415	(2.508-10.322)		672658	55.1	
A	15 Kerosene	6.415	(2.508-10.322)		672658	62.4	
	26 C13	6.443	6.469	-0.026	414	NC	
A	59 C12-C16	7.111	(5.666-8.556)		4125	0.4209	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		671205	68.5	
A	28 C9-C24	7.646	(2.508-12.785)		876896	89.5	M
A	29 C9-C25	7.864	(2.508-13.221)		876896	89.5	M
A	54 C10-C23	8.041	(3.750-12.332)		671205	68.5	
A	4 C10-C24	8.267	(3.750-12.785)		875443	89.3	M
A	16 C10-C25	8.485	(3.750-13.221)		875443	89.3	M
	45 Hexadecane		8.556			ND	
A	14 C10-C26	8.695	(3.750-13.641)		875443	89.3	M
A	67 C12-C22	8.763	(5.666-11.861)		669874	68.3	
A	5 Diesel	9.094	(3.750-14.438)		2500835	255.2	M
A	32 C10-C28	9.094	(3.750-14.438)		2500835	255.2	M
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		2500835	NC	M
A	30 C13-C22	9.165	(6.469-11.861)		669092	68.3	
	44 Heptadecane		9.191			ND	
A	31 C12-C24	9.226	(5.666-12.785)		874112	89.2	M
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		5121132	NC	M
A	52 Mineral oil	9.835	(2.508-17.162)		6797519	591.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		6797519	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		2498722	254.9	M
A 17 C10-C36	10.456	(3.750-17.162)		5119679	522.4	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		8603450	NC	
A 13 C9-C40	10.586	(2.508-18.664)		8603450	1053.1	
A 58 C16-C24	10.670	(8.556-12.785)		869987	88.8	M
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		8600759	1053.1	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		8586941	1051.7	
36 Tricosane	12.344	12.332	0.012	204238	NC	
A 66 C13-C40	12.567	(6.469-18.664)		8574617	1050.3	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		6696755	882.4	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		8502686	1041.9	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		5958543	690.6	
A 55 C23-C32	14.107	(12.332-15.882)		3960201	832.8	
39 n-Octacosane		14.438			ND	
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		5015512	823.3	
A 7 Motor Oil	14.973	(12.785-17.162)		5015512	823.3	
A 50 C25-C36	15.191	(13.221-17.162)		4709510	814.0	
A 10 C22-C40	15.262	(11.861-18.664)		7228722	864.7	
A 41 C23-C40	15.498	(12.332-18.664)		6981785	851.3	
A 8 C24-C40	15.724	(12.785-18.664)		6707593	843.2	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		5264054	887.8	
A 63 C29-C40	16.740	(14.816-18.664)		4767926	892.7	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

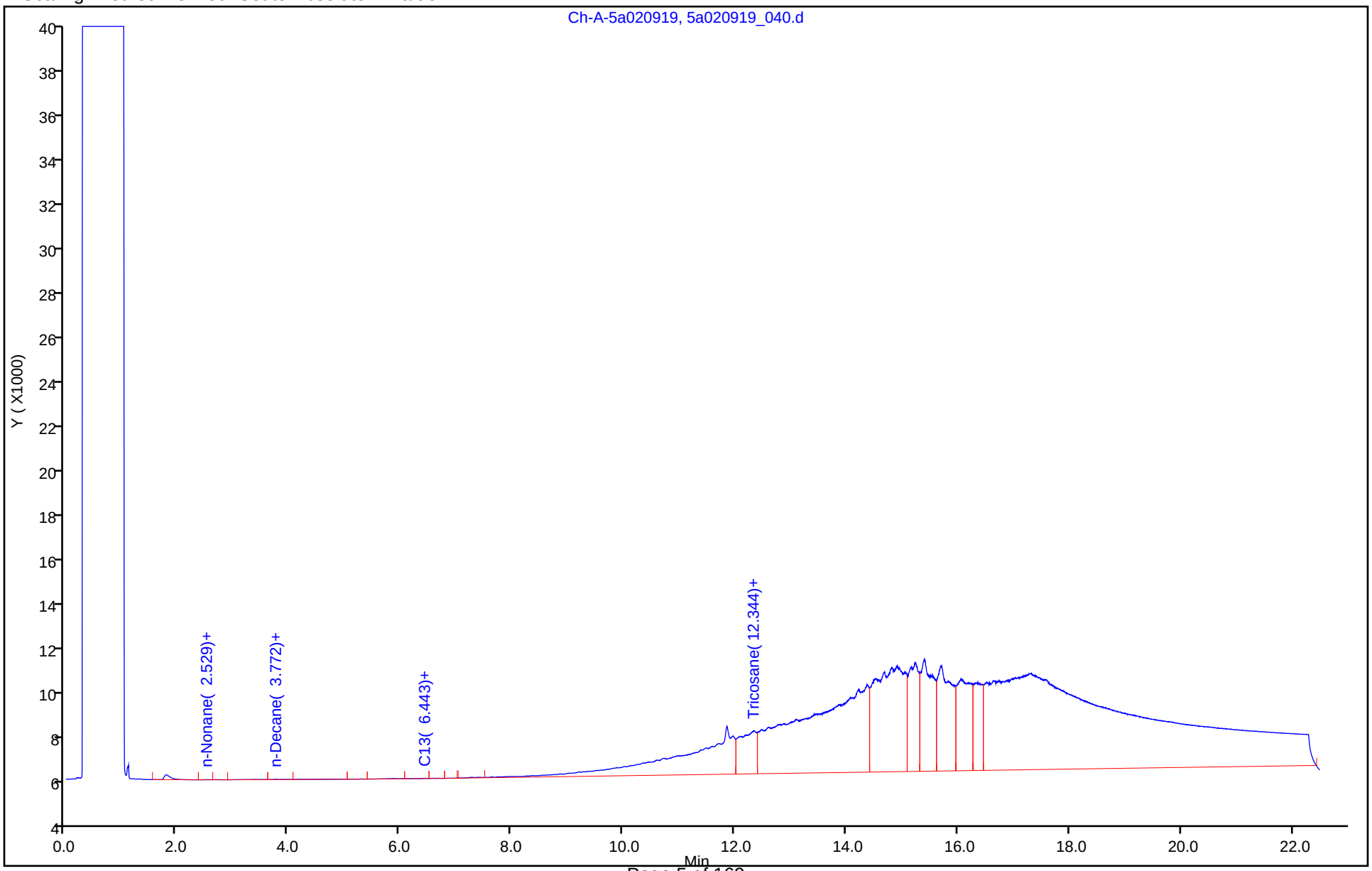
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Report Date: 11-Feb-2019 12:23:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_040.d				
Injection Date:	10-Feb-2019 05:35:47	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-1-I	Lab Sample ID:	720-91069-1	Worklist Smp#:	40
Client ID:	DG-AH13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

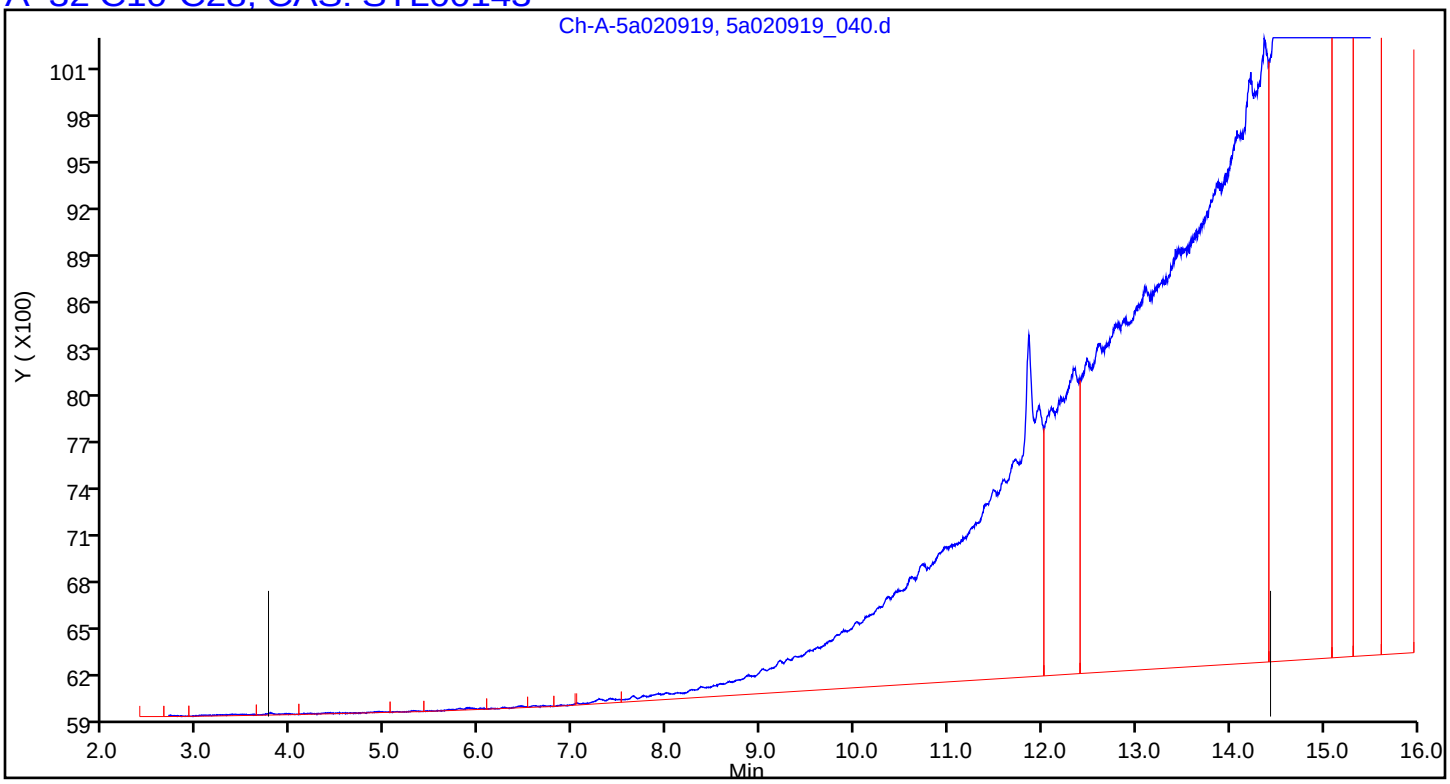


Report Date: 11-Feb-2019 12:23:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_040.d				
Injection Date:	10-Feb-2019 05:35:47	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-1-I	Lab Sample ID:	720-91069-1		
Client ID:	DG-AH13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

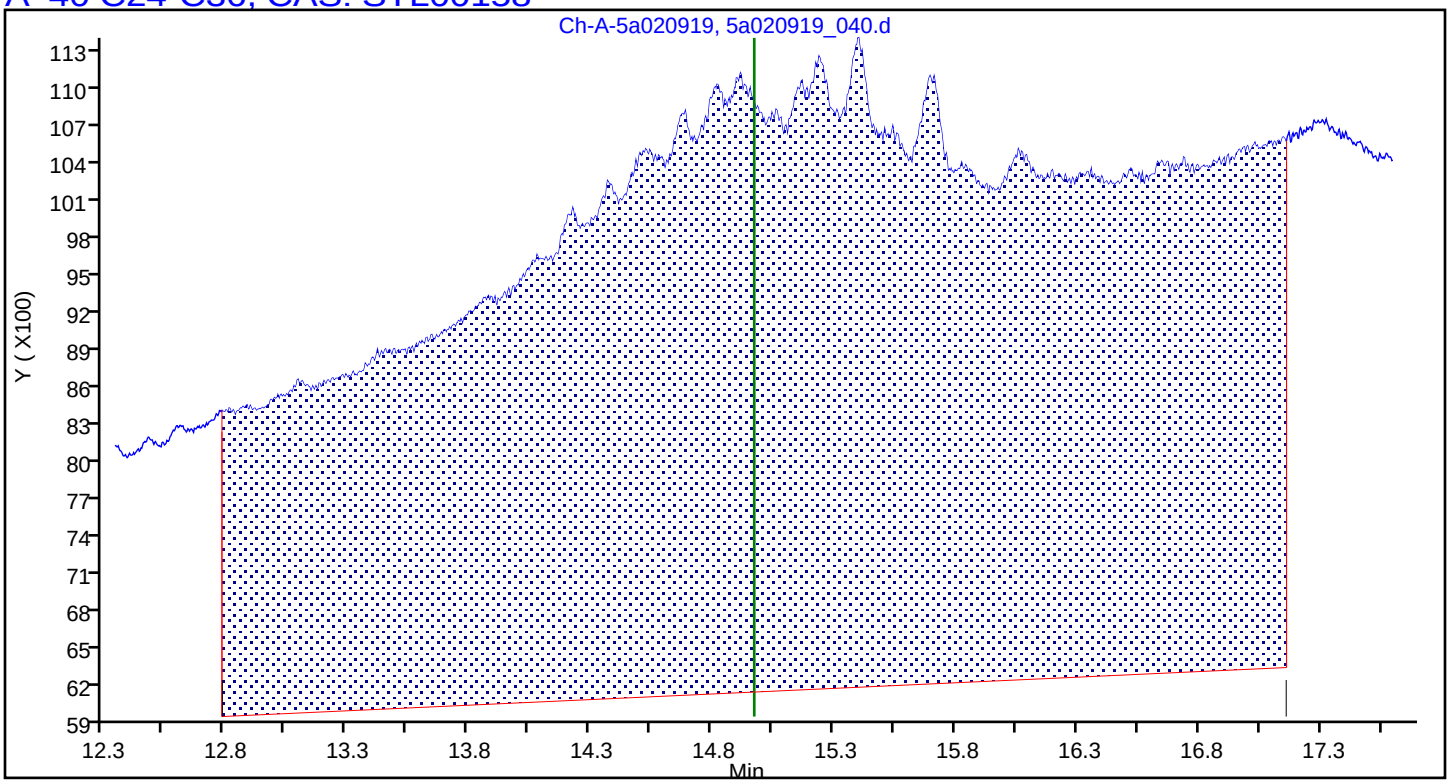


Report Date: 11-Feb-2019 12:23:35 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_040.d				
Injection Date:	10-Feb-2019 05:35:47	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-1-I	Lab Sample ID:	720-91069-1		
Client ID:	DG-AH13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

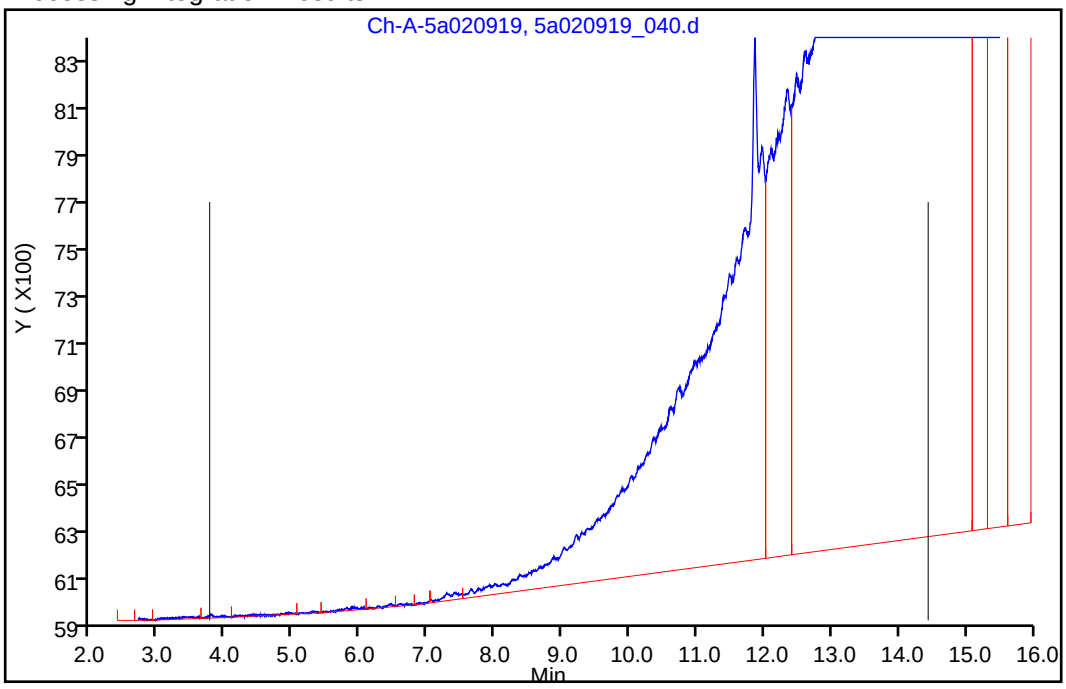
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_040.d				
Injection Date:	10-Feb-2019 05:35:47	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-1-I	Lab Sample ID:	720-91069-1		
Client ID:	DG-AH13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

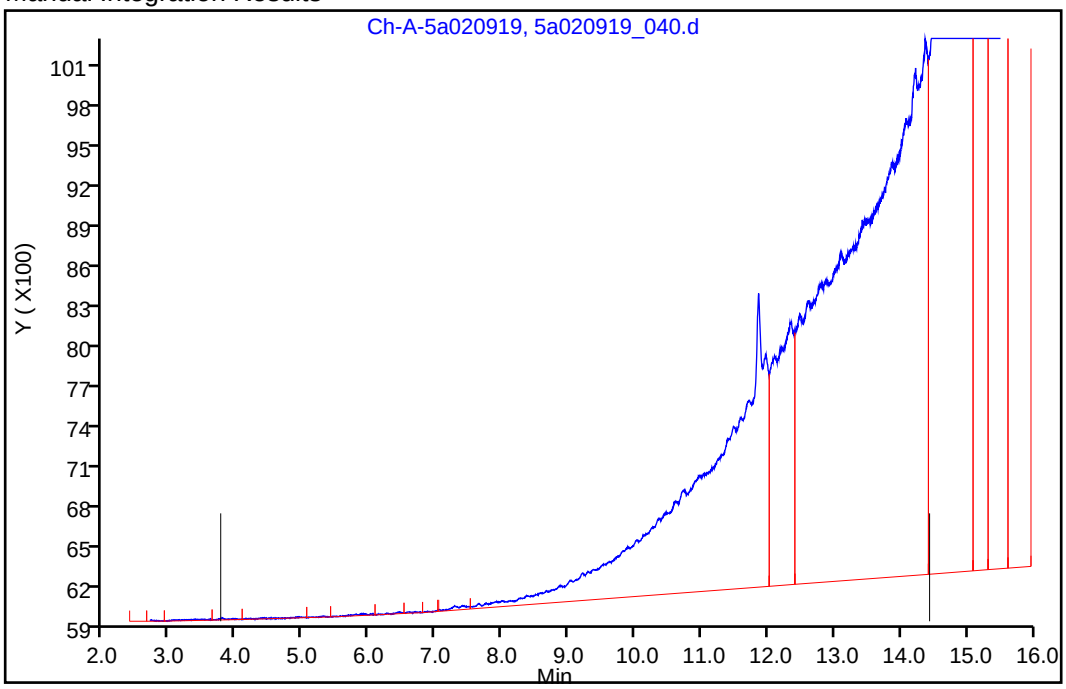
Processing Integration Results

RT: 9.09
Response: 875418
Amount: 89.319133



Manual Integration Results

RT: 9.09
Response: 2500835
Amount: 255.1609



Reviewer: hayashid, 11-Feb-2019 12:23:17

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

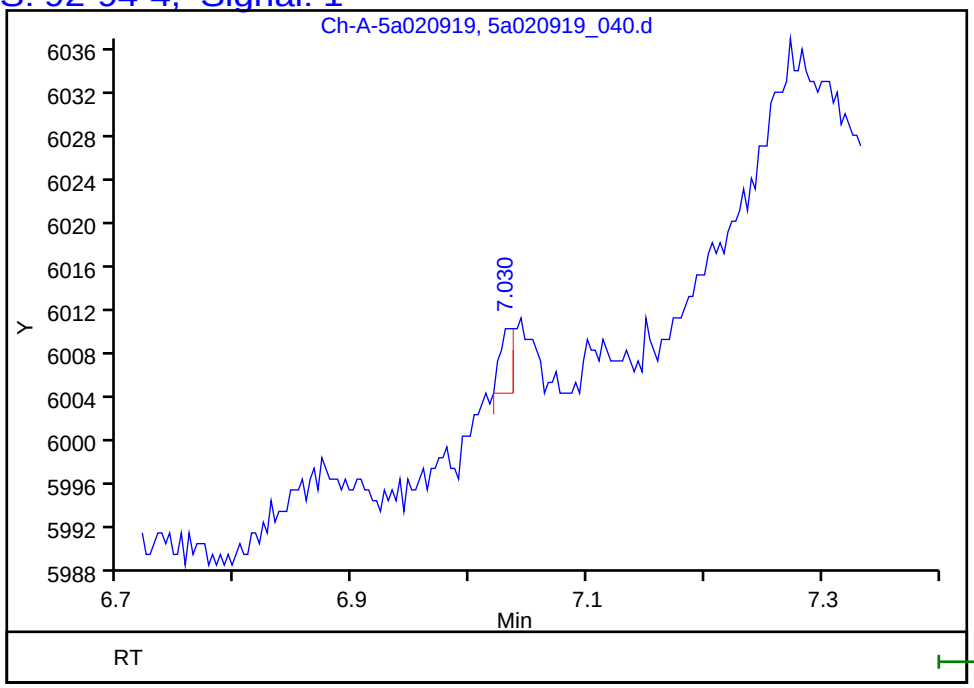
User Disabled Compound Report

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_040.d
Injection Date: 10-Feb-2019 05:35:47 Instrument ID: CHDRO5
Lims ID: 720-91069-E-1-I Lab Sample ID: 720-91069-1
Client ID: DG-AH13S-0.5-1
Operator ID: manager ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Method: DRO5A Limit Group: DRO
Column: Detector GC FID1A

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 7.03
Response: 25
Amount: 0.002096



Reviewer: hayashid, 11-Feb-2019 12:23:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_041.d
Lims ID: 720-91069-E-2-E
Client ID: DG-AH13S-3.5-4
Sample Type: Client
Inject. Date: 10-Feb-2019 06:05:05 ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 017 Name: 720-0056518-041
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:24:07 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:24:07

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.516	2.508	0.008	229	NC	
	23 n-Decane	3.769	3.750	0.019	443	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		3608	NC	
A	1 C9-C13	4.489	(2.508-6.469)		3608	NC	
A	57 C10-C12	4.708	(3.750-5.666)		1906	0.1945	
	24 Dodecane		5.666			ND	
A	3 C9 - C17	5.850	(2.508-9.191)		148535	12.3	
A	47 C9 - C18	6.145	(2.508-9.782)		931763	86.6	
A	60 C10-C16	6.153	(3.750-8.556)		146833	13.3	
A	25 C9-C19	6.415	(2.508-10.322)		1162315	95.2	
A	15 Kerosene	6.415	(2.508-10.322)		1162315	107.8	
	26 C13		6.469			ND	
A	59 C12-C16	7.111	(5.666-8.556)		144927	14.8	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		1160613	118.4	
A	28 C9-C24	7.646	(2.508-12.785)		4453534	454.4	
A	29 C9-C25	7.864	(2.508-13.221)		5159419	526.4	M
A	54 C10-C23	8.041	(3.750-12.332)		3600581	367.4	
A	4 C10-C24	8.267	(3.750-12.785)		4451832	454.2	
A	16 C10-C25	8.485	(3.750-13.221)		5157717	526.2	M
	45 Hexadecane		8.556			ND	
A	14 C10-C26	8.695	(3.750-13.641)		5157717	526.2	M
A	67 C12-C22	8.763	(5.666-11.861)		3167645	323.2	
A	5 Diesel	9.094	(3.750-14.438)		8146867	831.2	M
A	32 C10-C28	9.094	(3.750-14.438)		8146867	831.2	M
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		8146867	NC	M
A	30 C13-C22	9.165	(6.469-11.861)		3167645	323.2	
	44 Heptadecane		9.191			ND	
A	31 C12-C24	9.226	(5.666-12.785)		4449926	454.0	
	49 n-Octadecane	9.874	9.782	0.092	230552	NC	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		14555706	NC	M
A	52 Mineral oil	9.835	(2.508-17.162)		15611184	1359.1	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		15611184	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		8144961	831.0	M
A 17 C10-C36	10.456	(3.750-17.162)		14554004	1484.9	M
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		18174256	NC	
A 13 C9-C40	10.586	(2.508-18.664)		18174256	2272.9	
A 58 C16-C24	10.670	(8.556-12.785)		4304999	439.2	
61 icosane	10.917	10.858	0.059	1010947	NC	
A 6 C10-C40	11.207	(3.750-18.664)		18170345	2272.5	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		18148793	2269.9	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		18114662	2265.7	
37 n-Tetracosane	12.874	12.785	0.089	705885	NC	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		15114664	1991.5	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		17677736	2211.4	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		13179579	1527.4	
A 55 C23-C32	14.107	(12.332-15.882)		8423574	1771.4	
39 n-Octacosane	14.370	14.438	-0.068	2989150	NC	M
65 C29		14.816			ND	
A 40 C24-C36	14.973	(12.785-17.162)		9866368	1619.5	
A 7 Motor Oil	14.973	(12.785-17.162)		9866368	1619.5	
A 50 C25-C36	15.191	(13.221-17.162)		9080831	1569.6	
A 10 C22-C40	15.262	(11.861-18.664)		13804476	1651.2	
A 41 C23-C40	15.498	(12.332-18.664)		13038462	1589.8	
A 8 C24-C40	15.724	(12.785-18.664)		12271940	1542.6	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		8899030	1690.5	
A 63 C29-C40	16.740	(14.816-18.664)		7843433	1671.0	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

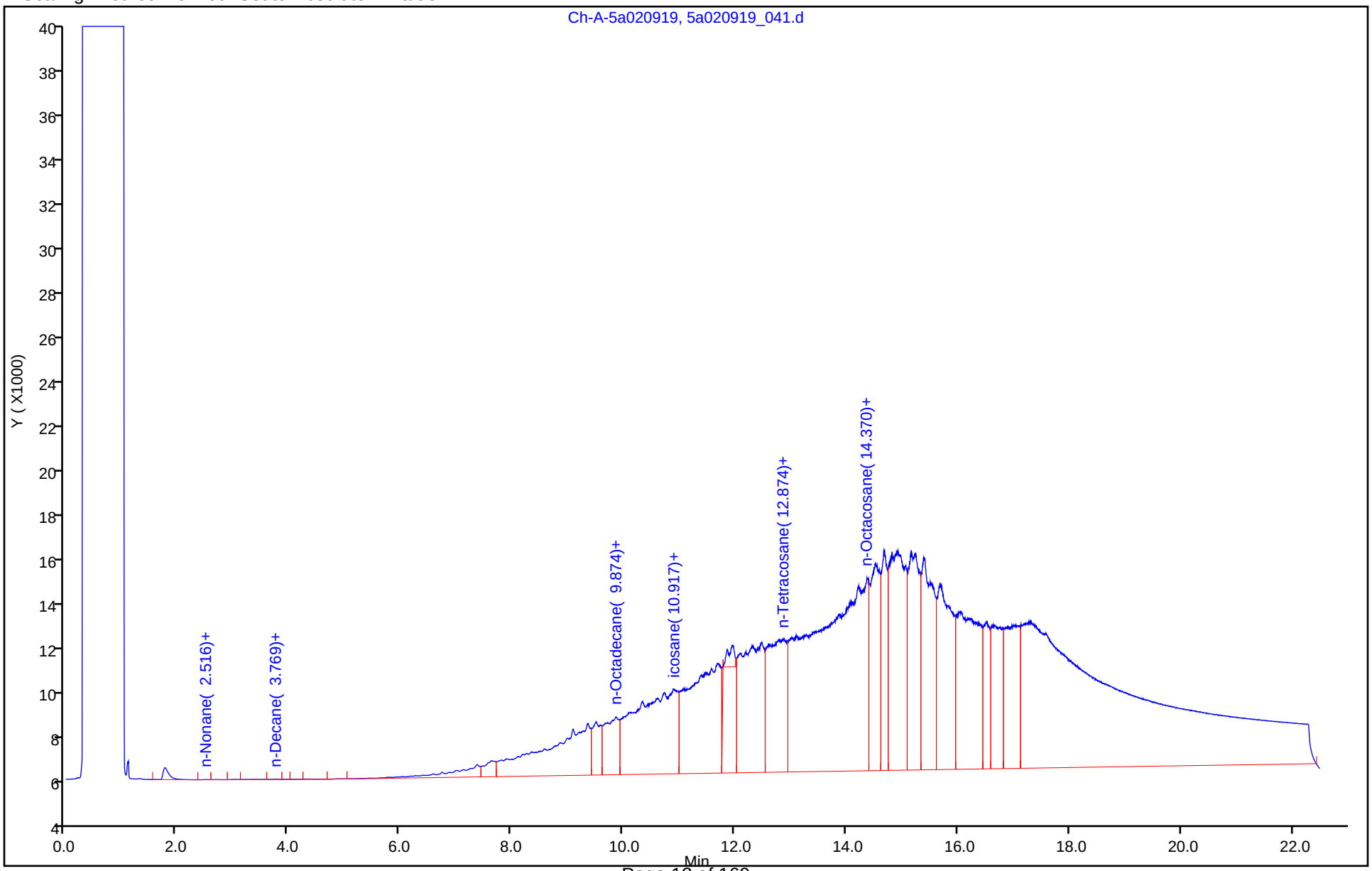
Report Date: 11-Feb-2019 12:24:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_041.d

Injection Date:	10-Feb-2019 06:05:05	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-2-E	Lab Sample ID:	720-91069-2	Worklist Smp#:	41
Client ID:	DG-AH13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

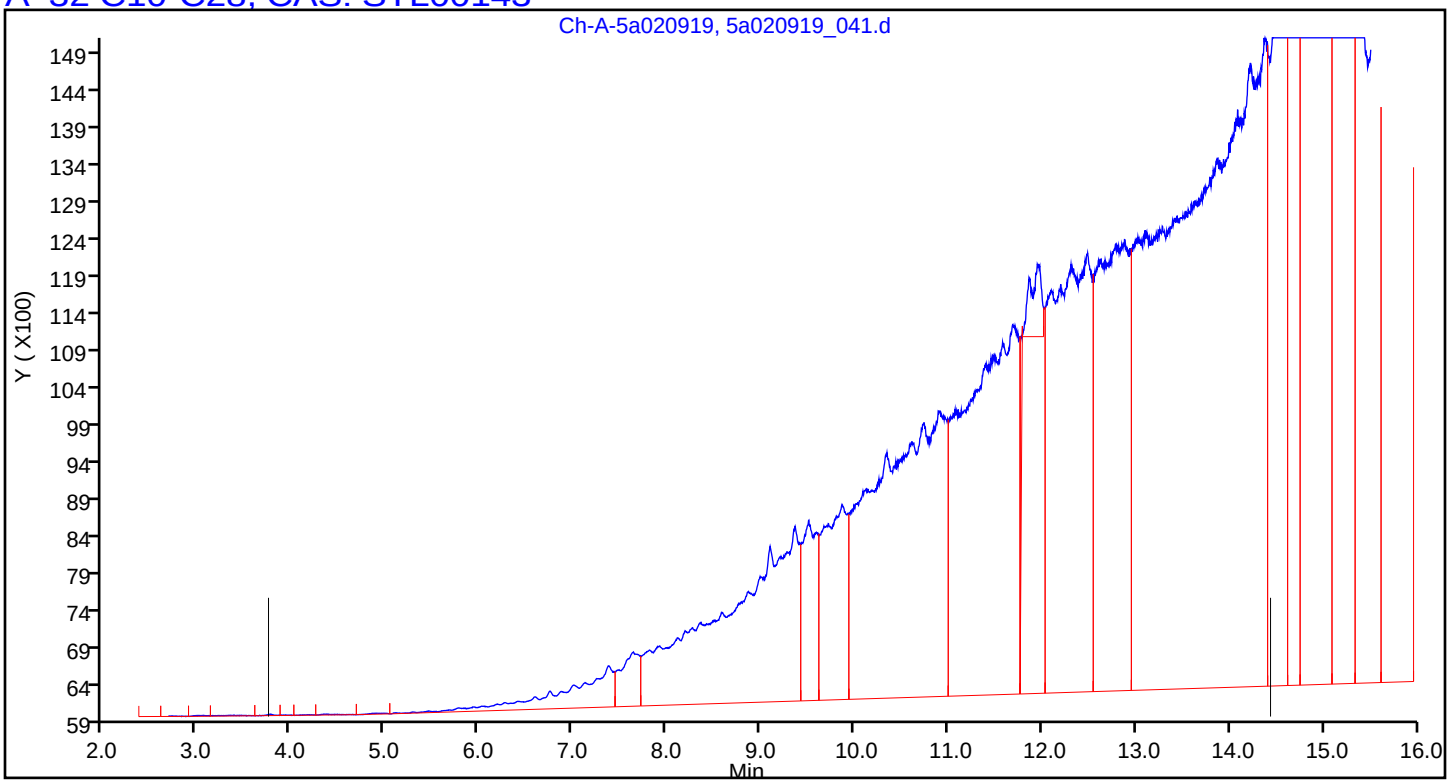


Report Date: 11-Feb-2019 12:24:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_041.d				
Injection Date:	10-Feb-2019 06:05:05	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-2-E	Lab Sample ID:	720-91069-2		
Client ID:	DG-AH13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

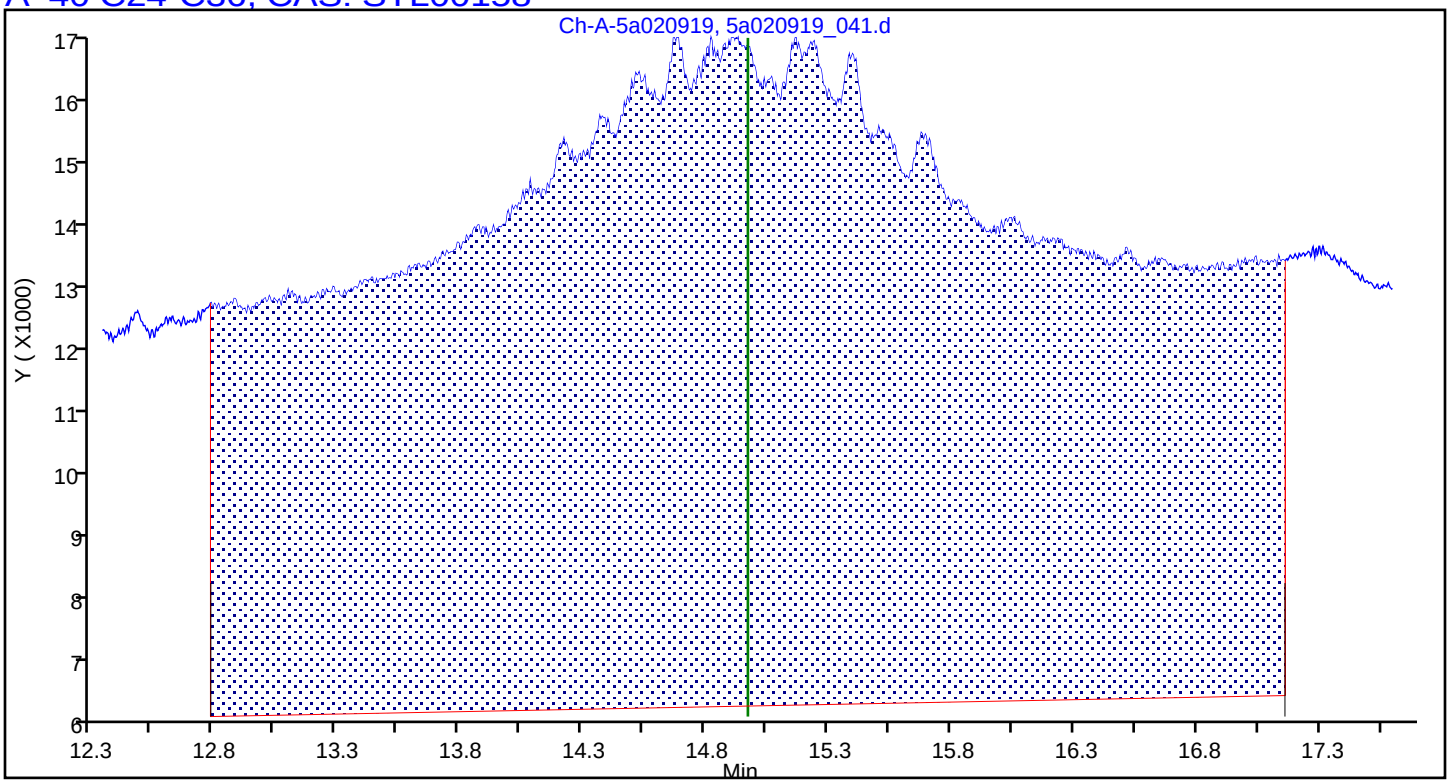


Report Date: 11-Feb-2019 12:24:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_041.d				
Injection Date:	10-Feb-2019 06:05:05	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-2-E	Lab Sample ID:	720-91069-2		
Client ID:	DG-AH13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

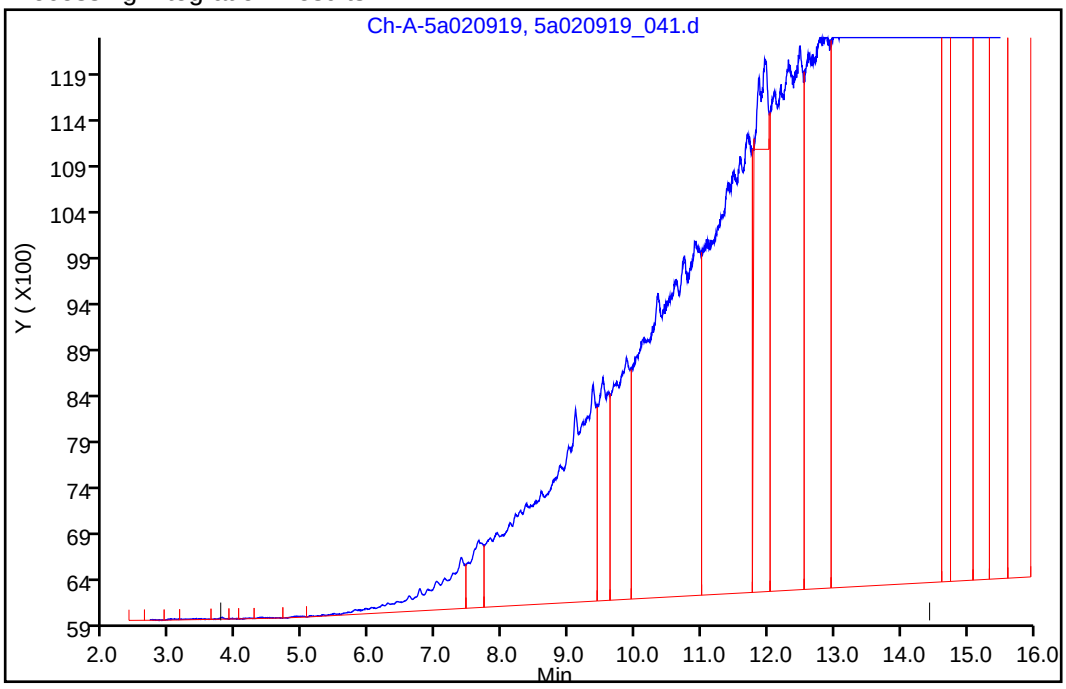
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_041.d				
Injection Date:	10-Feb-2019 06:05:05	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-2-E	Lab Sample ID:	720-91069-2		
Client ID:	DG-AH13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.094, CAS: STL00143

Signal: 1

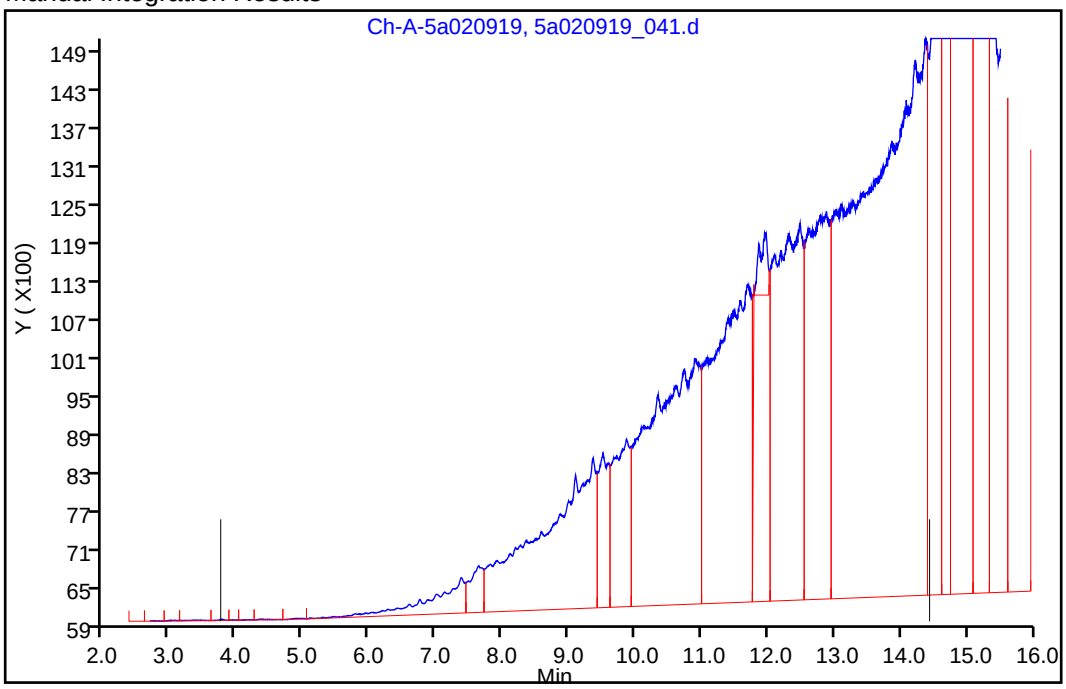
Processing Integration Results

RT: 9.09
Response: 5116923
Amount: 522.0810



Manual Integration Results

RT: 9.09
Response: 8146867
Amount: 831.2270



Reviewer: hayashid, 11-Feb-2019 12:23:58

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

User Disabled Compound Report

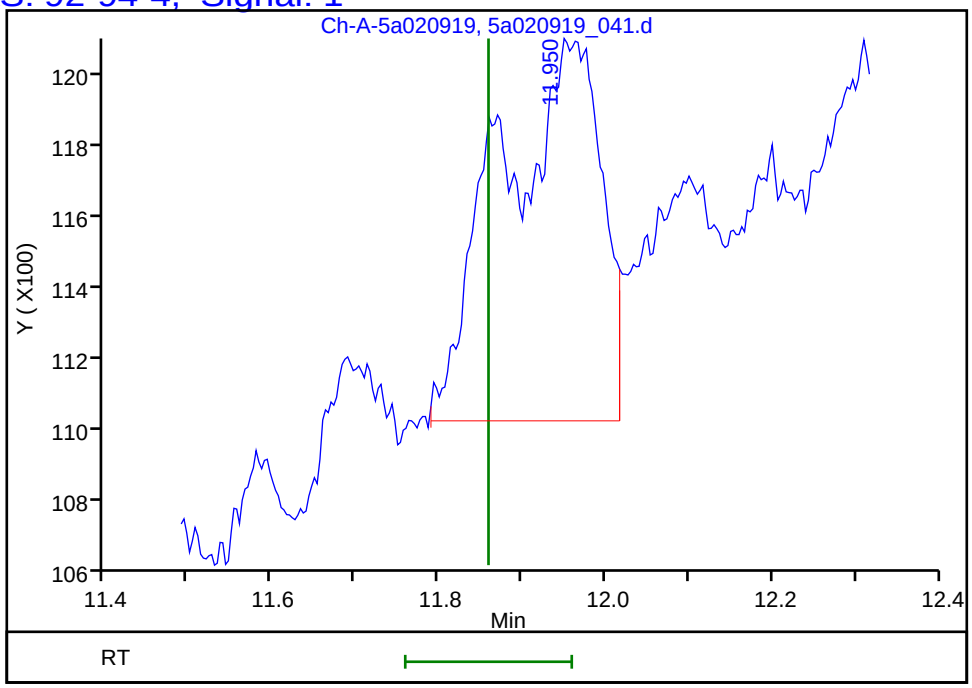
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_041.d

Injection Date:	10-Feb-2019 06:05:05	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-2-E	Lab Sample ID:	720-91069-2		
Client ID:	DG-AH13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.95
Response: 40794
Amount: 3.420905



Reviewer: hayashid, 11-Feb-2019 12:24:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_013.d
Lims ID: 720-91069-E-3-E
Client ID: DG-AH13S-7.5-8
Sample Type: Client
Inject. Date: 11-Feb-2019 14:08:55 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 100.0000
Sample Info: #: 003 Name: 720-0056534-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\DRO5A.m
Limit Group: DRO
Last Update: 12-Feb-2019 11:33:04 Calib Date: 11-Feb-2019 11:06:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_007.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 11:33:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.473	2.500	-0.027	3620	NC	M
23 n-Decane	3.780	3.748	0.032	21210	NC	M
A 1 C9-C13	4.485	(2.500-6.471)		1147009	91.7	M
A 21 Stoddard Solvent	4.485	(2.500-6.471)		1147009	NC	M
A 57 C10-C12	4.708	(3.748-5.668)		545235	55.6	M
24 Dodecane	5.627	5.668	-0.041	77596	NC	M
A 3 C9 - C17	5.848	(2.500-9.196)		4191473	345.8	M
A 47 C9 - C18	6.144	(2.500-9.788)		5437955	505.2	M
A 60 C10-C16	6.153	(3.748-8.559)		3705291	336.2	M
A 15 Kerosene	6.414	(2.500-10.329)		6296655	583.9	M
A 25 C9-C19	6.414	(2.500-10.329)		6296655	515.9	M
26 C13	6.417	6.471	-0.054	103426	NC	M
A 59 C12-C16	7.114	(5.668-8.559)		3237652	330.3	M
$ 27 n-Decanoic Acid (Surr)		7.133			ND	U
A 62 C10-C20	7.307	(3.748-10.866)		7777192	793.5	M
A 28 C9-C24	7.648	(2.500-12.795)		11677299	1191.4	M
A 29 C9-C25	7.866	(2.500-13.232)		13050191	1331.5	M
A 54 C10-C23	8.045	(3.748-12.342)		10870955	1109.2	M
A 4 C10-C24	8.271	(3.748-12.795)		11618250	1185.4	M
A 16 C10-C25	8.490	(3.748-13.232)		12991142	1325.5	M
45 Hexadecane		8.559			ND	
A 14 C10-C26	8.700	(3.748-13.653)		13439739	1371.3	M
A 67 C12-C22	8.769	(5.668-11.870)		9403985	959.5	M
A 12 Unknown Hydrocarbons	9.099	(3.748-14.451)		15292226	NC	M
A 32 C10-C28	9.099	(3.748-14.451)		15292226	1560.3	M
A 5 Diesel	9.099	(3.748-14.451)		15292226	1560.3	M
A 30 C13-C22	9.171	(6.471-11.870)		8887090	906.8	M
44 Heptadecane	9.210	9.196	0.014	942641	NC	M
A 31 C12-C24	9.232	(5.668-12.795)		11150611	1137.7	M
49 n-Octadecane	9.817	9.788	0.029	858700	NC	M
A 9 Crude Oil Range Organics (	9.841	(2.500-17.183)		20794073	NC	
A 52 Mineral oil	9.841	(2.500-17.183)		20794073	1810.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.841	(2.500-17.183)		20529929	NC	M
33 C19		10.329			ND	
A 64 C13-C28	10.461	(6.471-14.451)		14307692	1459.8	M
A 17 C10-C36	10.465	(3.748-17.183)		20470880	2088.6	M
A 13 C9-C40	10.601	(2.500-18.702)		22609896	2838.2	
A 68 Crude Oil Range Organics (	10.601	(2.500-18.702)		22609896	NC	
A 58 C16-C24	10.677	(8.559-12.795)		8639964	881.5	M
61 icosane		10.866			ND	
A 6 C10-C40	11.225	(3.748-18.702)		22547022	2830.2	
$ 34 p-Terphenyl		11.859			ND	
35 n-Docosane		11.870			ND	
A 18 C12-C40	12.185	(5.668-18.702)		22032114	2764.7	
36 Tricosane	12.403	12.342	0.061	747295	NC	M
A 66 C13-C40	12.587	(6.471-18.702)		21469477	2693.2	
37 n-Tetracosane	12.800	12.795	0.005	412673	NC	M
A 2 C16-C36 ORO	12.871	(8.559-17.183)		17182551	2264.0	
38 C25		13.232			ND	
A 19 C16-C40	13.631	(8.559-18.702)		18998374	2379.7	
46 n-Hexacosane		13.653			ND	
A 20 C19-C36	13.756	(10.329-17.183)		11298108	1309.4	
A 55 C23-C32	14.120	(12.342-15.899)		7580575	1594.1	
39 n-Octacosane	14.527	14.451	0.076	428877	NC	M
65 C29	14.927	14.831	0.096	1870712	NC	M
A 7 Motor Oil	14.989	(12.795-17.183)		7004327	1149.7	
A 40 C24-C36	14.989	(12.795-17.183)		8513609	1397.5	M
A 50 C25-C36	15.207	(13.232-17.183)		6287818	1086.8	
A 10 C22-C40	15.286	(11.870-18.702)		9811948	1173.7	
A 41 C23-C40	15.522	(12.342-18.702)		8976443	1094.5	
A 8 C24-C40	15.749	(12.795-18.702)		8217318	1032.9	
56 Dotriacontane		15.899			ND	
A 51 C28-C40	16.577	(14.451-18.702)		5408036	916.0	
A 63 C29-C40	16.767	(14.831-18.702)		4677235	872.7	
42 n-Hexatriacontane	17.067	17.183	-0.116	197991	NC	M
43 C40		18.702			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated

Review Flags
- M - Manually Integrated
- U - Marked Undetected

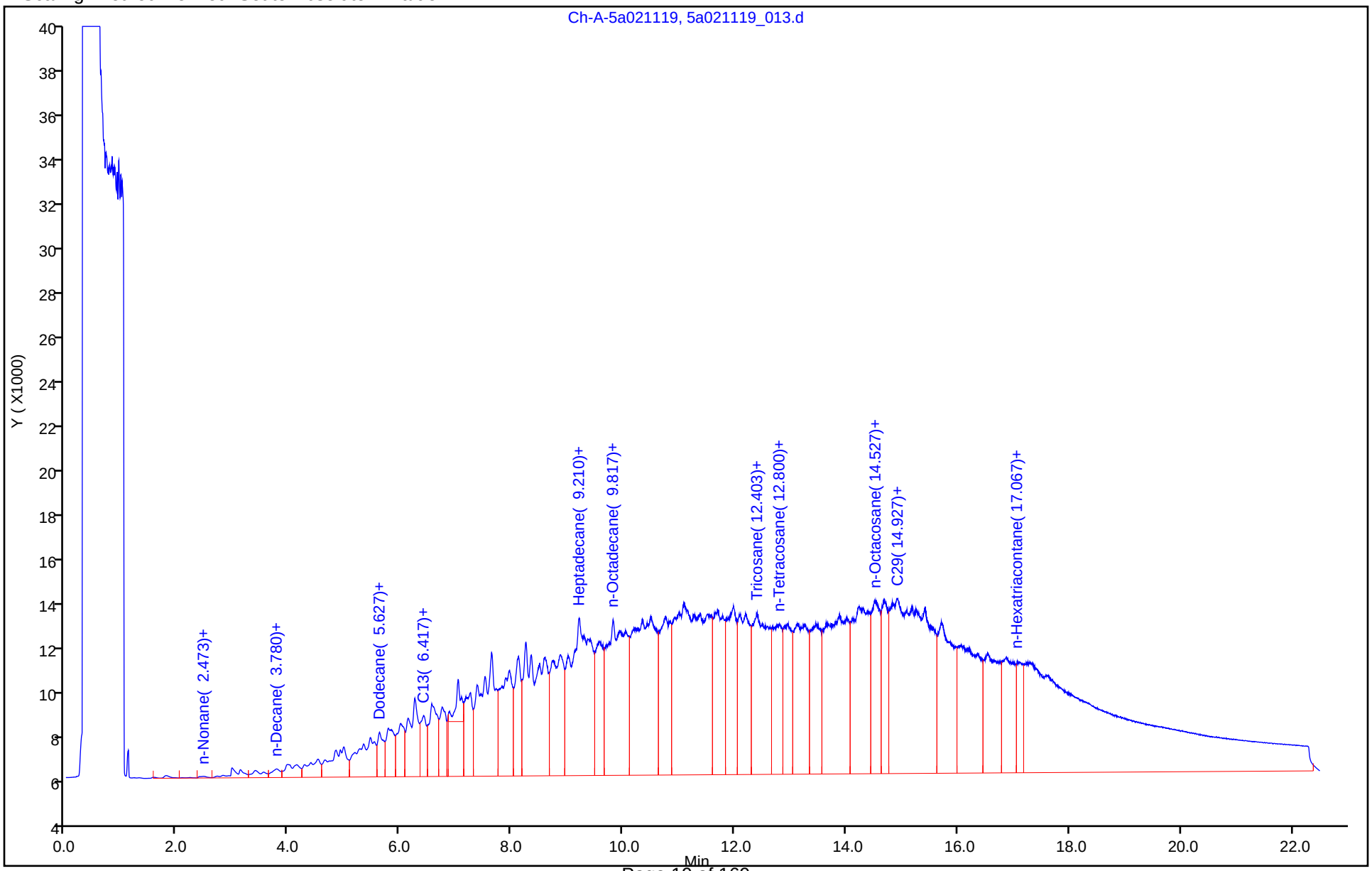
Report Date: 12-Feb-2019 11:33:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_013.d

Injection Date:	11-Feb-2019 14:08:55	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-3-E	Lab Sample ID:	720-91069-3	Worklist Smp#:	13
Client ID:	DG-AH13S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	100.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

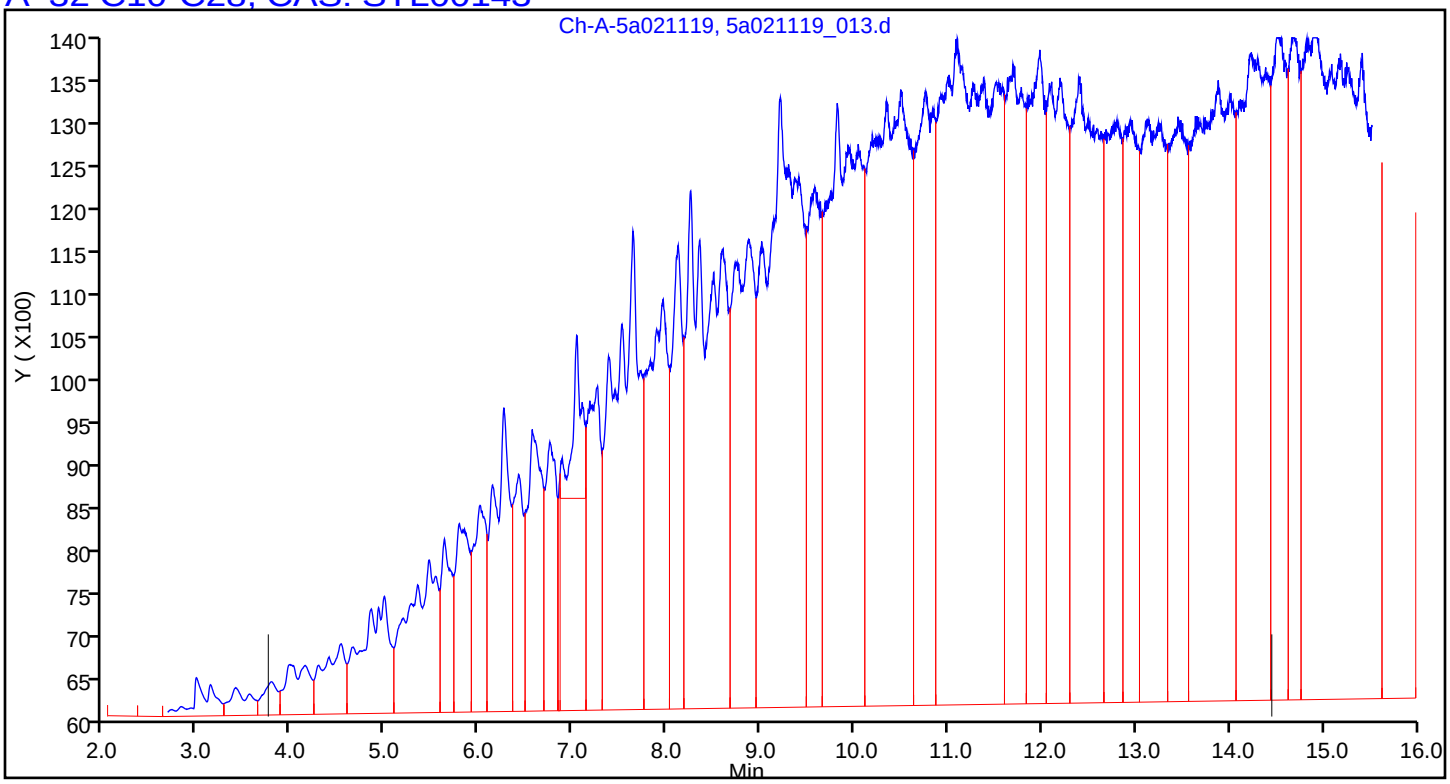


Report Date: 12-Feb-2019 11:33:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_013.d				
Injection Date:	11-Feb-2019 14:08:55	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-3-E	Lab Sample ID:	720-91069-3		
Client ID:	DG-AH13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

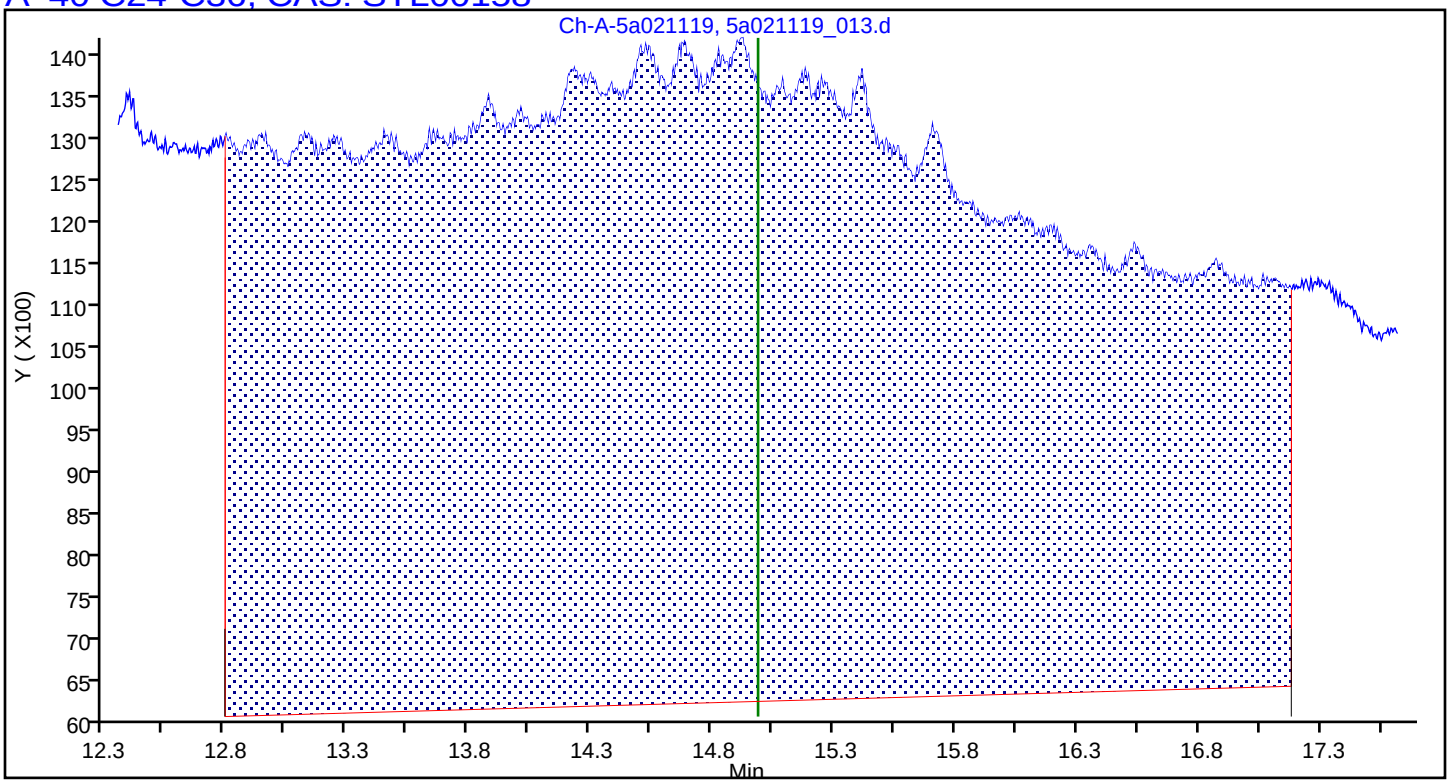


Report Date: 12-Feb-2019 11:33:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_013.d				
Injection Date:	11-Feb-2019 14:08:55	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-3-E	Lab Sample ID:	720-91069-3		
Client ID:	DG-AH13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

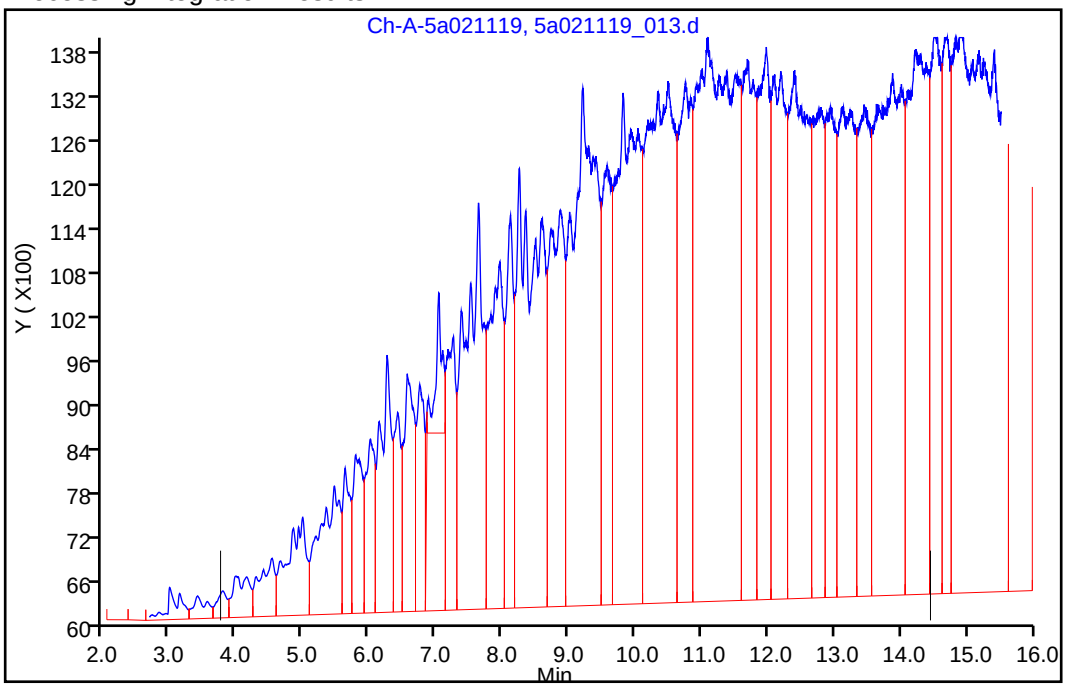
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_013.d				
Injection Date:	11-Feb-2019 14:08:55	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-3-E	Lab Sample ID:	720-91069-3		
Client ID:	DG-AH13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.099, CAS: STL00143

Signal: 1

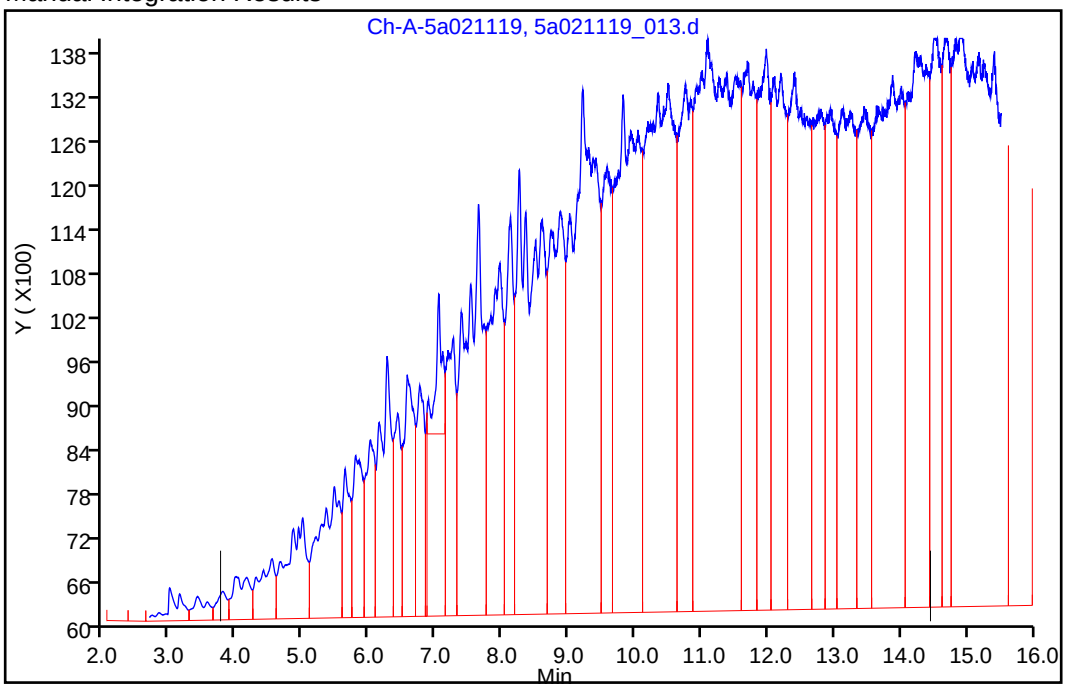
Processing Integration Results

RT: 9.10
Response: 14772870
Amount: 1507.2799



Manual Integration Results

RT: 9.10
Response: 15292226
Amount: 1560.2699



Reviewer: luj, 12-Feb-2019 11:32:49

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

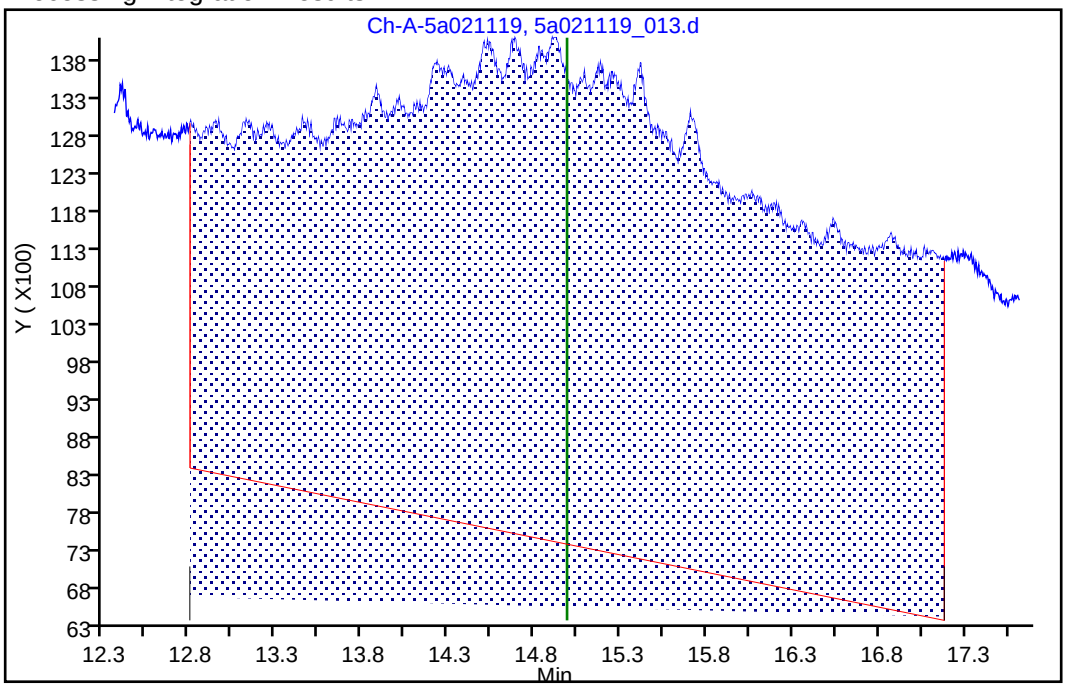
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_013.d				
Injection Date:	11-Feb-2019 14:08:55	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-3-E	Lab Sample ID:	720-91069-3		
Client ID:	DG-AH13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.989, CAS: STL00158

Signal: 1

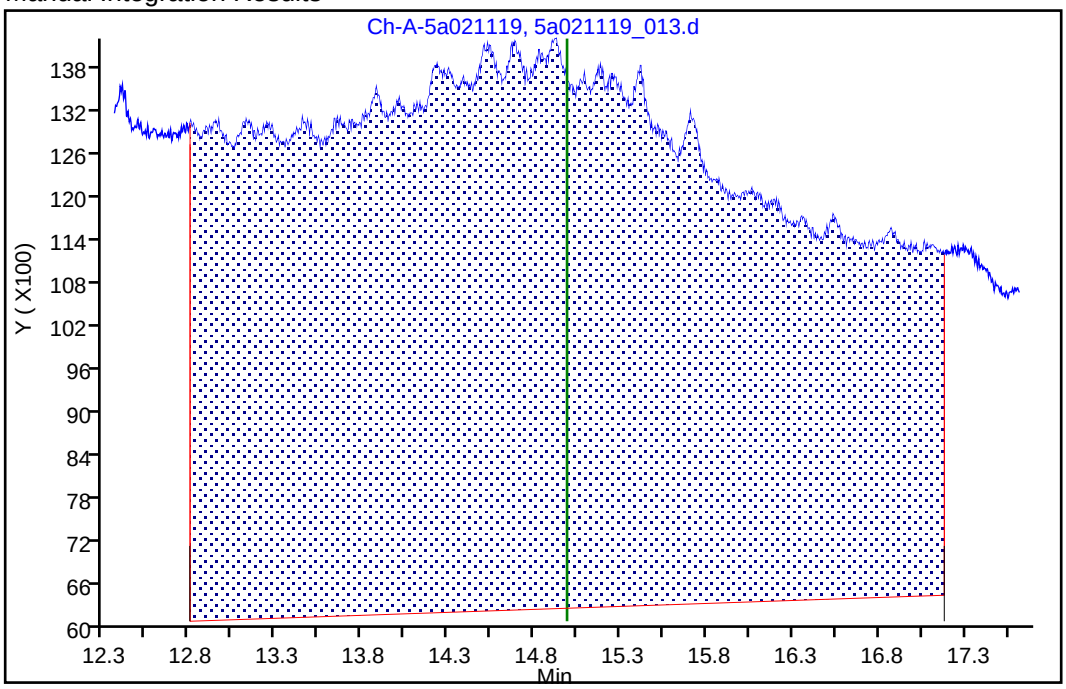
Processing Integration Results

RT: 14.99
Response: 7004327
Amount: 1149.7365



Manual Integration Results

RT: 14.99
Response: 8513609
Amount: 1397.4800



Reviewer: luj, 12-Feb-2019 11:32:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_014.d
Lims ID: 720-91069-E-4-I
Client ID: DG-AJ13S-0.5-1
Sample Type: Client
Inject. Date: 11-Feb-2019 14:38:06 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: #: 004 Name: 720-0056534-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\DRO5A.m
Limit Group: DRO
Last Update: 12-Feb-2019 11:34:52 Calib Date: 11-Feb-2019 11:06:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_007.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 11:34:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.492	2.500	-0.008	253	NC	
23 n-Decane	3.772	3.748	0.024	357	NC	
A 1 C9-C13	4.485	(2.500-6.471)		4564	0.3649	M
A 21 Stoddard Solvent	4.485	(2.500-6.471)		4564	NC	M
A 57 C10-C12	4.708	(3.748-5.668)		3499	0.3570	M
24 Dodecane	5.663	5.668	-0.005	3142	NC	M
A 3 C9 - C17	5.848	(2.500-9.196)		4564	0.3765	M
A 47 C9 - C18	6.144	(2.500-9.788)		4564	0.4240	M
A 60 C10-C16	6.153	(3.748-8.559)		3499	0.3175	M
A 15 Kerosene	6.414	(2.500-10.329)		4564	0.4232	M
A 25 C9-C19	6.414	(2.500-10.329)		4564	0.3739	M
26 C13		6.471			ND	
A 59 C12-C16	7.114	(5.668-8.559)		3142	0.3206	M
$ 27 n-Decanoic Acid (Surr)		7.133			ND	
A 62 C10-C20	7.307	(3.748-10.866)		3499	0.3570	M
A 28 C9-C24	7.648	(2.500-12.795)		4564	0.4657	M
A 29 C9-C25	7.866	(2.500-13.232)		4564	0.4657	M
A 54 C10-C23	8.045	(3.748-12.342)		3499	0.3570	M
A 4 C10-C24	8.271	(3.748-12.795)		3499	0.3570	M
A 16 C10-C25	8.490	(3.748-13.232)		3499	0.3570	M
45 Hexadecane		8.559			ND	
A 14 C10-C26	8.700	(3.748-13.653)		3499	0.3570	M
A 67 C12-C22	8.769	(5.668-11.870)		3142	0.3206	M
A 12 Unknown Hydrocarbons	9.099	(3.748-14.451)		5047896	NC	M
A 32 C10-C28	9.099	(3.748-14.451)		5047896	515.0	M
A 5 Diesel	9.099	(3.748-14.451)		5047896	515.0	M
A 30 C13-C22		(6.471-11.870)			ND	M
44 Heptadecane		9.196			ND	
A 31 C12-C24	9.232	(5.668-12.795)		3142	0.3206	M
49 n-Octadecane		9.788			ND	
A 9 Crude Oil Range Organics (	9.841	(2.500-17.183)		10988608	NC	
A 52 Mineral oil	9.841	(2.500-17.183)		10988608	956.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.841	(2.500-17.183)		9774442	NC	M
33 C19		10.329			ND	
A 64 C13-C28	10.461	(6.471-14.451)		5044397	514.7	M
A 17 C10-C36	10.465	(3.748-17.183)		9773377	997.2	M
A 13 C9-C40	10.601	(2.500-18.702)		13375698	1661.3	
A 68 Crude Oil Range Organics (	10.601	(2.500-18.702)		13375698	NC	
A 58 C16-C24		(8.559-12.795)			ND	M
61 icosane		10.866			ND	
A 6 C10-C40	11.225	(3.748-18.702)		13372738	1661.1	
$ 34 p-Terphenyl		11.859			ND	
35 n-Docosane		11.870			ND	
A 18 C12-C40	12.185	(5.668-18.702)		13356044	1659.3	
36 Tricosane		12.342			ND	
A 66 C13-C40	12.587	(6.471-18.702)		13338082	1657.2	
37 n-Tetracosane		12.795			ND	
A 2 C16-C36 ORO	12.871	(8.559-17.183)		10799614	1423.0	
38 C25		13.232			ND	
A 19 C16-C40	13.631	(8.559-18.702)		13186704	1639.0	
46 n-Hexacosane		13.653			ND	
A 20 C19-C36	13.756	(10.329-17.183)		9714599	1125.9	
A 55 C23-C32	14.120	(12.342-15.899)		6165359	1296.5	
39 n-Octacosane		14.451			ND	
65 C29		14.831			ND	
A 7 Motor Oil	14.989	(12.795-17.183)		7741339	1270.7	
A 40 C24-C36	14.989	(12.795-17.183)		7741339	1270.7	
A 50 C25-C36	15.207	(13.232-17.183)		7211244	1246.4	
A 10 C22-C40	15.286	(11.870-18.702)		10983384	1313.8	
A 41 C23-C40	15.522	(12.342-18.702)		10512095	1281.8	
A 8 C24-C40	15.749	(12.795-18.702)		10012377	1258.6	
56 Dotriacontane		15.899			ND	
A 51 C28-C40	16.577	(14.451-18.702)		7617462	1382.4	
A 63 C29-C40	16.767	(14.831-18.702)		6847892	1392.9	
42 n-Hexatriacontane		17.183			ND	
43 C40		18.702			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

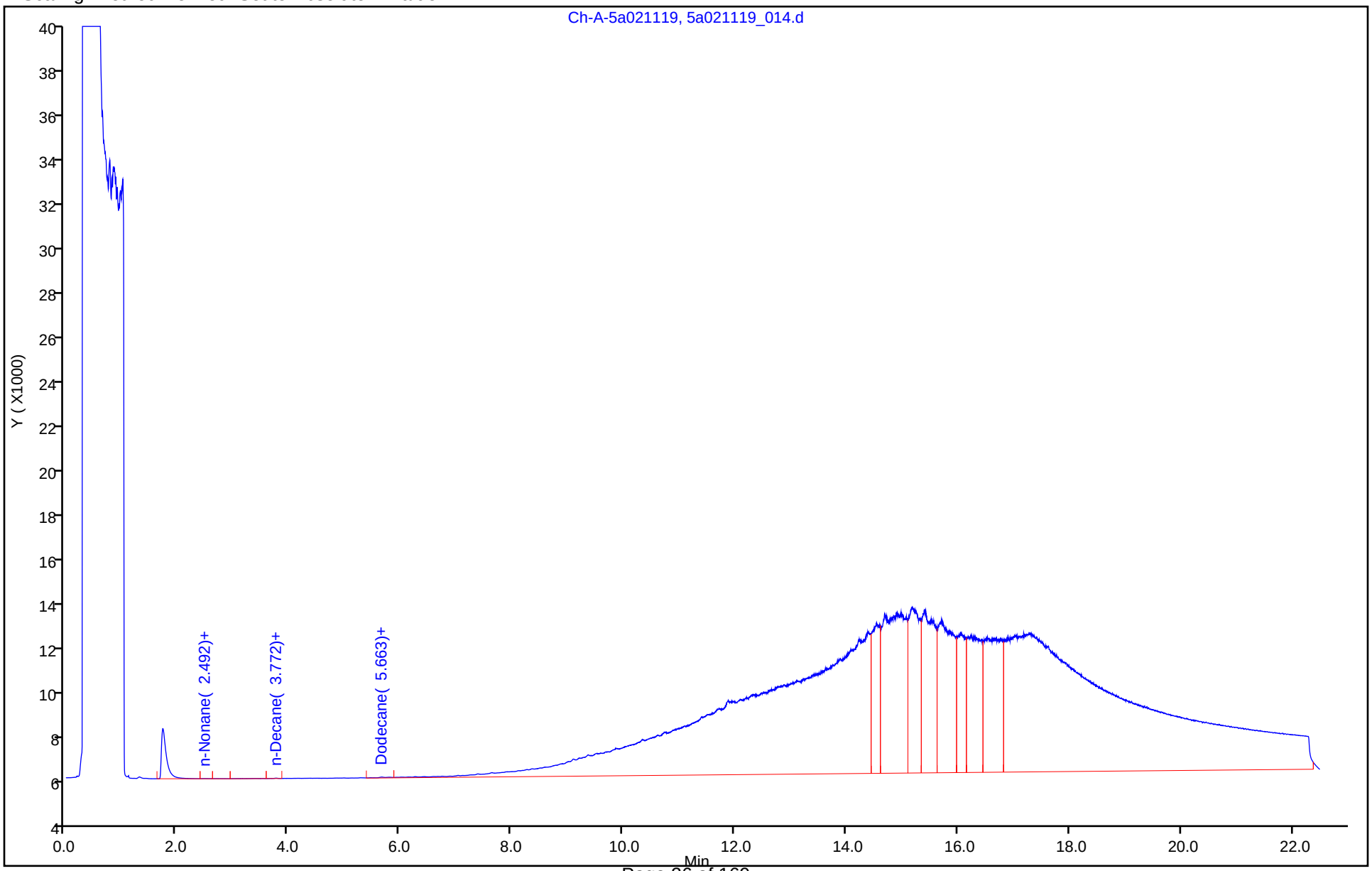
Report Date: 12-Feb-2019 11:34:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_014.d

Injection Date:	11-Feb-2019 14:38:06	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-4-I	Lab Sample ID:	720-91069-4	Worklist Smp#:	14
Client ID:	DG-AJ13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

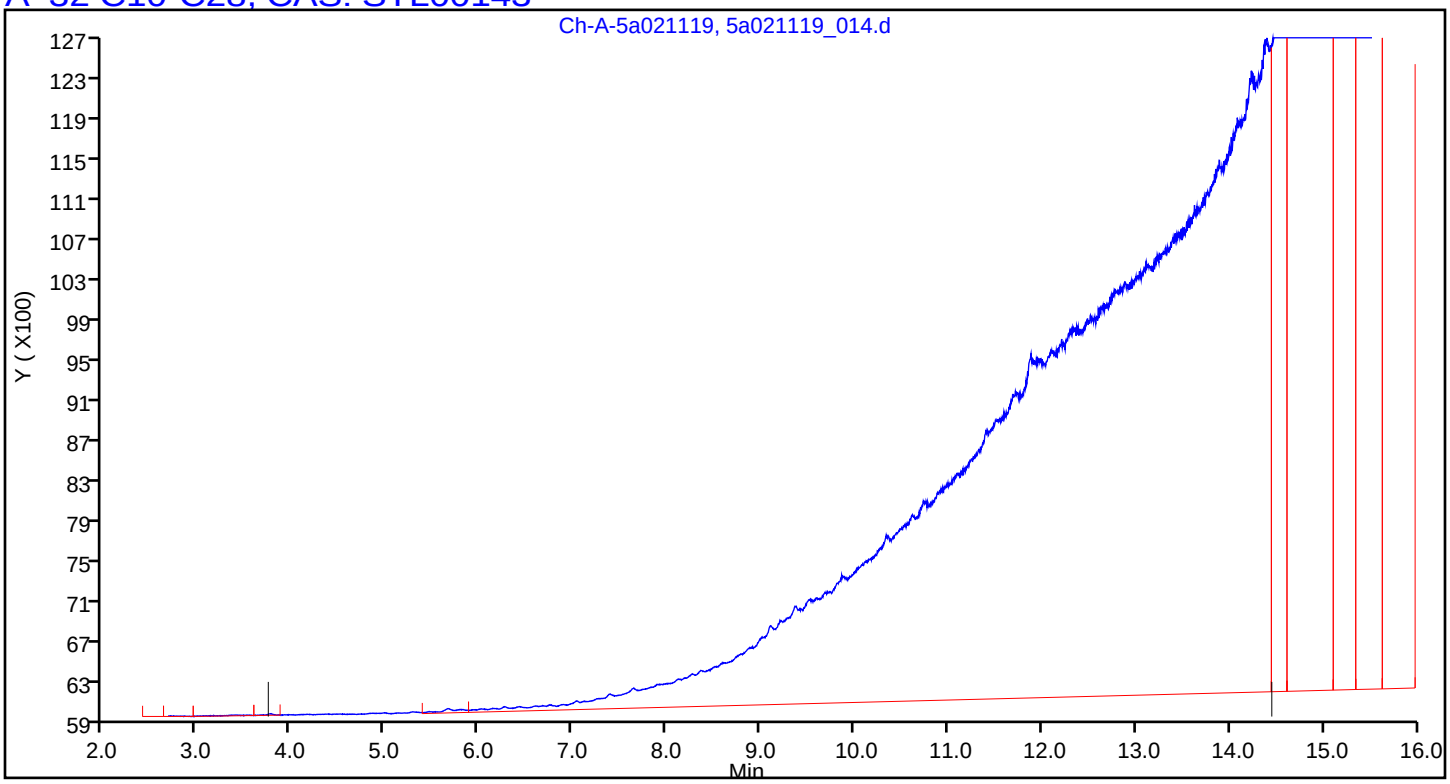


Report Date: 12-Feb-2019 11:34:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_014.d				
Injection Date:	11-Feb-2019 14:38:06	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-4-I	Lab Sample ID:	720-91069-4		
Client ID:	DG-AJ13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

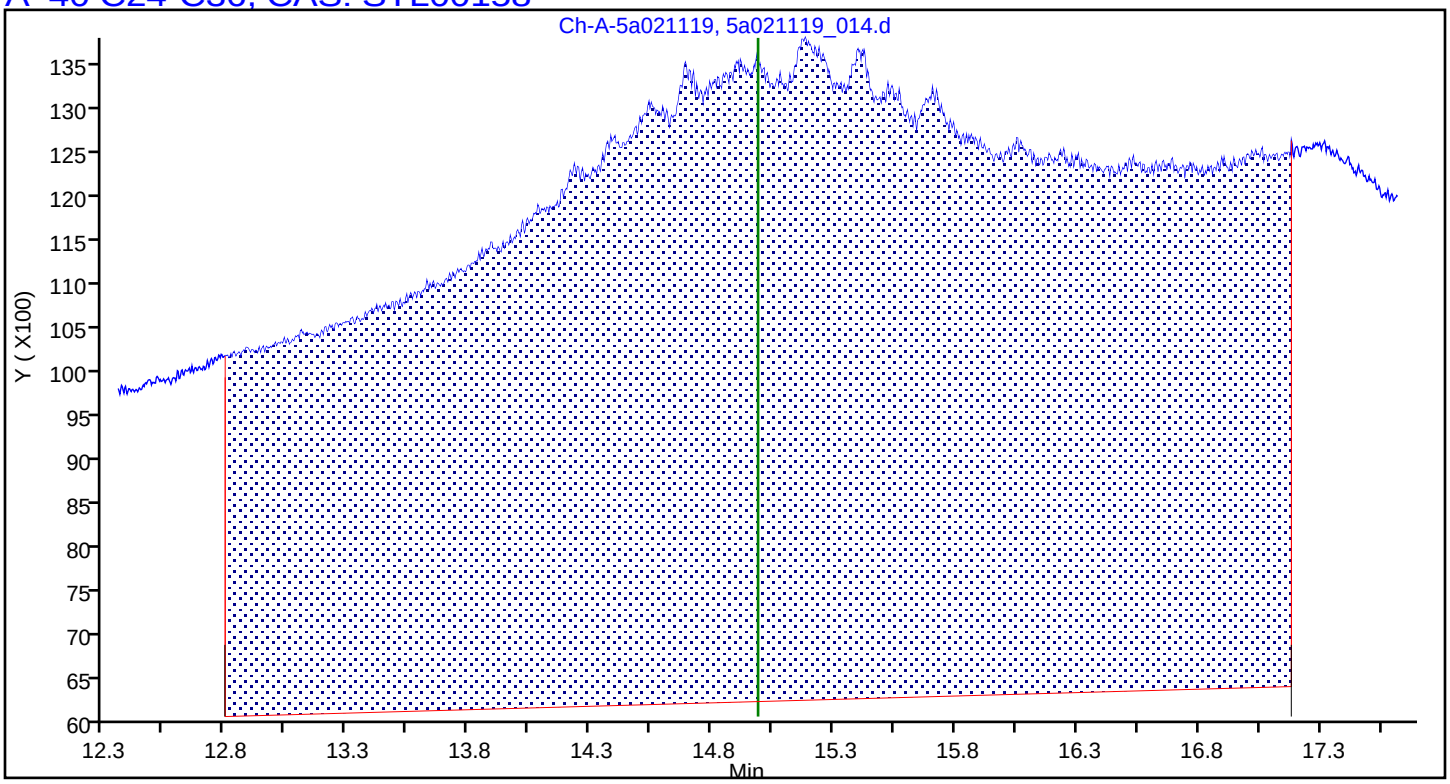


Report Date: 12-Feb-2019 11:34:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_014.d				
Injection Date:	11-Feb-2019 14:38:06	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-4-I	Lab Sample ID:	720-91069-4		
Client ID:	DG-AJ13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

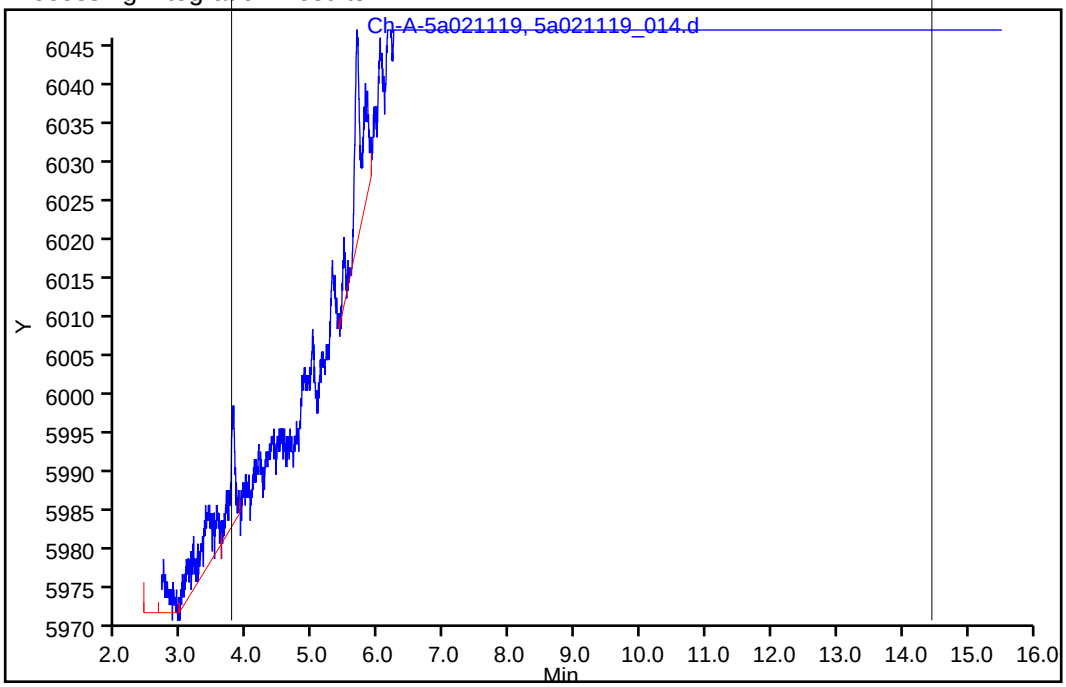
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_014.d		
Injection Date:	11-Feb-2019 14:38:06	Instrument ID:	CHDRO5
Lims ID:	720-91069-E-4-I	Lab Sample ID:	720-91069-4
Client ID:	DG-AJ13S-0.5-1		
Operator ID:	manager	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	50.0000
Method:	DRO5A	Limit Group:	DRO
Column:		Detector	GC FID1A

A 32 C10-C28, RT: 9.099, CAS: STL00143

Signal: 1

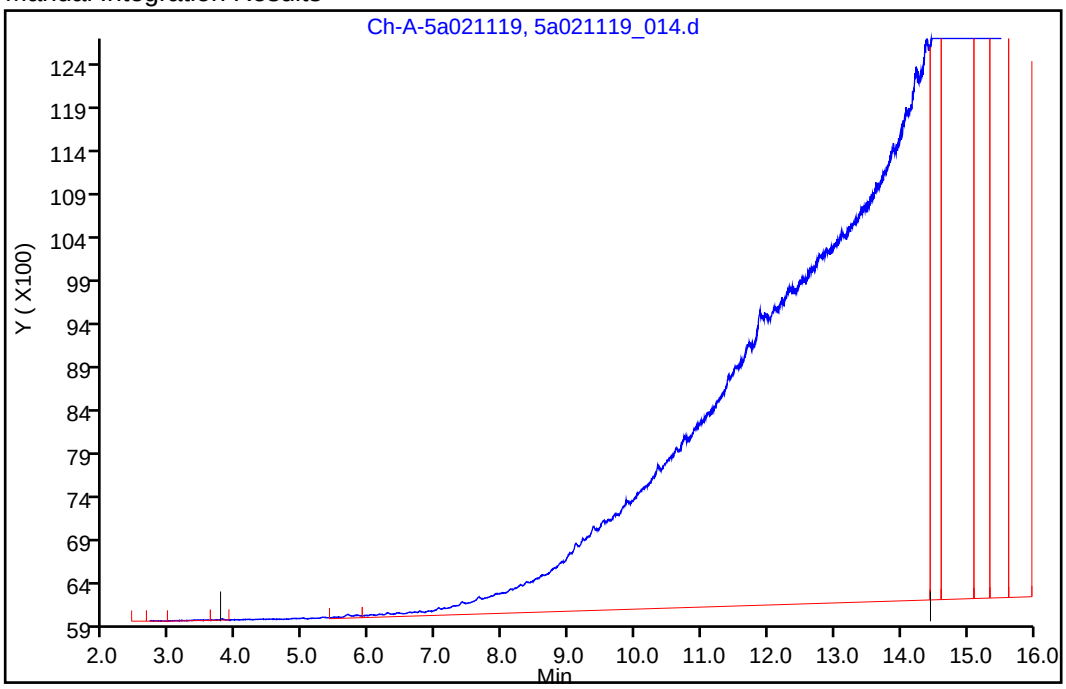
Processing Integration Results

RT: 9.10
Response: 1493
Amount: 0.152331



Manual Integration Results

RT: 9.10
Response: 5047896
Amount: 515.0382



Reviewer: luj, 12-Feb-2019 11:34:40

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_015.d
Lims ID: 720-91069-E-5-E
Client ID: DG-AJ13S-3.5-4
Sample Type: Client
Inject. Date: 11-Feb-2019 15:07:21 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 005 Name: 720-0056534-015
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\DRO5A.m
Limit Group: DRO
Last Update: 12-Feb-2019 11:35:50 Calib Date: 11-Feb-2019 11:06:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_007.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 11:35:50

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.477	2.500	-0.023	775	NC	M
23 n-Decane	3.767	3.748	0.019	864	NC	M
A 1 C9-C13	4.485	(2.500-6.471)		47392	3.79	M
A 21 Stoddard Solvent	4.485	(2.500-6.471)		47392	NC	M
A 57 C10-C12	4.708	(3.748-5.668)		21641	2.21	M
24 Dodecane	5.630	5.668	-0.038	8695	NC	M
A 3 C9 - C17	5.848	(2.500-9.196)		469667	38.7	M
A 47 C9 - C18	6.144	(2.500-9.788)		600064	55.7	M
A 60 C10-C16	6.153	(3.748-8.559)		274070	24.9	M
A 15 Kerosene	6.414	(2.500-10.329)		886955	82.2	M
A 25 C9-C19	6.414	(2.500-10.329)		886955	72.7	M
26 C13		6.471			ND	
A 59 C12-C16	7.114	(5.668-8.559)		261124	26.6	M
$ 27 n-Decanoic Acid (Surr)		7.133			ND	
A 62 C10-C20	7.307	(3.748-10.866)		882662	90.1	M
A 28 C9-C24	7.648	(2.500-12.795)		2685670	274.0	M
A 29 C9-C25	7.866	(2.500-13.232)		2685670	274.0	M
A 54 C10-C23	8.045	(3.748-12.342)		2681377	273.6	M
A 4 C10-C24	8.271	(3.748-12.795)		2681377	273.6	M
A 16 C10-C25	8.490	(3.748-13.232)		2681377	273.6	M
45 Hexadecane	8.587	8.559	0.028	115215	NC	M
A 14 C10-C26	8.700	(3.748-13.653)		2681377	273.6	M
A 67 C12-C22	8.769	(5.668-11.870)		2427719	247.7	M
A 12 Unknown Hydrocarbons	9.099	(3.748-14.451)		5070170	NC	M
A 32 C10-C28	9.099	(3.748-14.451)		5070170	517.3	M
A 5 Diesel	9.099	(3.748-14.451)		5070170	517.3	M
A 30 C13-C22	9.171	(6.471-11.870)		2397566	244.6	M
44 Heptadecane	9.207	9.196	0.011	130397	NC	M
A 31 C12-C24	9.232	(5.668-12.795)		2668431	272.3	M
49 n-Octadecane		9.788			ND	
A 9 Crude Oil Range Organics (	9.841	(2.500-17.183)		10451361	NC	
A 52 Mineral oil	9.841	(2.500-17.183)		10451361	909.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.841	(2.500-17.183)		8657343	NC	M
33 C19		10.329			ND	
A 64 C13-C28	10.461	(6.471-14.451)		5027071	512.9	M
A 17 C10-C36	10.465	(3.748-17.183)		8653050	882.9	M
A 13 C9-C40	10.601	(2.500-18.702)		12740878	1580.4	
A 68 Crude Oil Range Organics (	10.601	(2.500-18.702)		12740878	NC	
A 58 C16-C24	10.677	(8.559-12.795)		2407307	245.6	M
61 icosane		10.866			ND	
A 6 C10-C40	11.225	(3.748-18.702)		12734507	1579.8	
$ 34 p-Terphenyl	11.860	11.859	0.001	154125	12.9	M
35 n-Docosane		11.870			ND	
A 18 C12-C40	12.185	(5.668-18.702)		12692566	1574.8	
36 Tricosane	12.337	12.342	-0.005	240712	NC	M
A 66 C13-C40	12.587	(6.471-18.702)		12635885	1567.7	
37 n-Tetracosane		12.795			ND	
A 2 C16-C36 ORO	12.871	(8.559-17.183)		9989179	1316.2	
38 C25		13.232			ND	
A 19 C16-C40	13.631	(8.559-18.702)		12278696	1523.2	
46 n-Hexacosane		13.653			ND	
A 20 C19-C36	13.756	(10.329-17.183)		8496489	984.7	
A 55 C23-C32	14.120	(12.342-15.899)		5358286	1126.8	
39 n-Octacosane		14.451			ND	
65 C29	14.387	14.831	-0.444	2388793	NC	M
A 7 Motor Oil	14.989	(12.795-17.183)		6636043	1089.3	
A 40 C24-C36	14.989	(12.795-17.183)		6636043	1089.3	
A 50 C25-C36	15.207	(13.232-17.183)		6200623	1071.7	
A 10 C22-C40	15.286	(11.870-18.702)		9513596	1138.0	
A 41 C23-C40	15.522	(12.342-18.702)		9192058	1120.8	
A 8 C24-C40	15.749	(12.795-18.702)		8767100	1102.1	
56 Dotriacontane		15.899			ND	
A 51 C28-C40	16.577	(14.451-18.702)		6811788	1204.2	
A 63 C29-C40	16.767	(14.831-18.702)		6152389	1215.4	
42 n-Hexatriacontane		17.183			ND	
43 C40		18.702			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

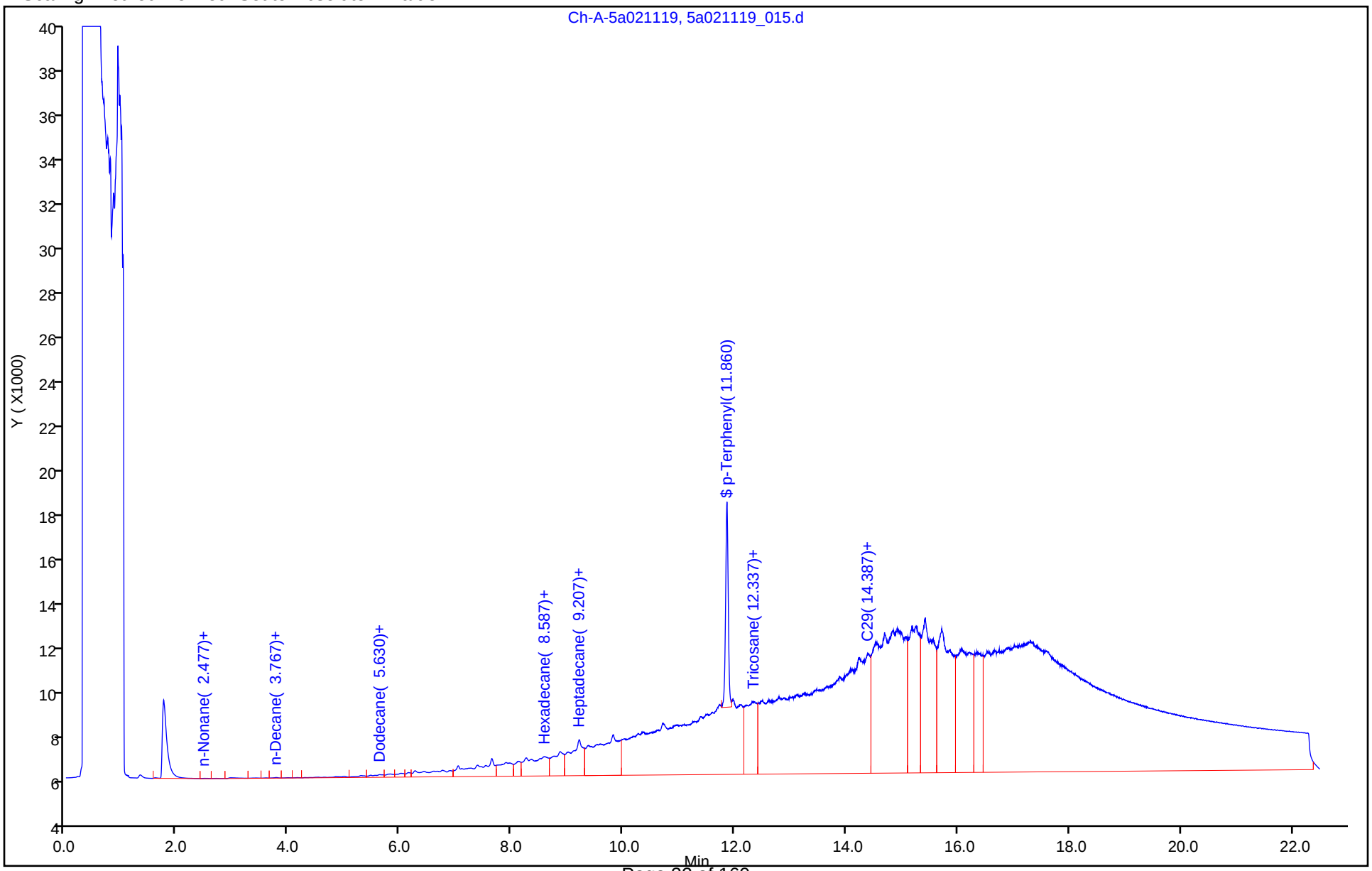
Report Date: 12-Feb-2019 11:35:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_015.d

Injection Date:	11-Feb-2019 15:07:21	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-5-E	Lab Sample ID:	720-91069-5	Worklist Smp#:	15
Client ID:	DG-AJ13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_015.d				
Lims ID:	720-91069-E-5-E				
Client ID:	DG-AJ13S-3.5-4				
Sample Type:	Client				
Inject. Date:	11-Feb-2019 15:07:21	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 005 Name: 720-0056534-015				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 11:35:50	Calib Date:	11-Feb-2019 11:06:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_007.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 11:35:50

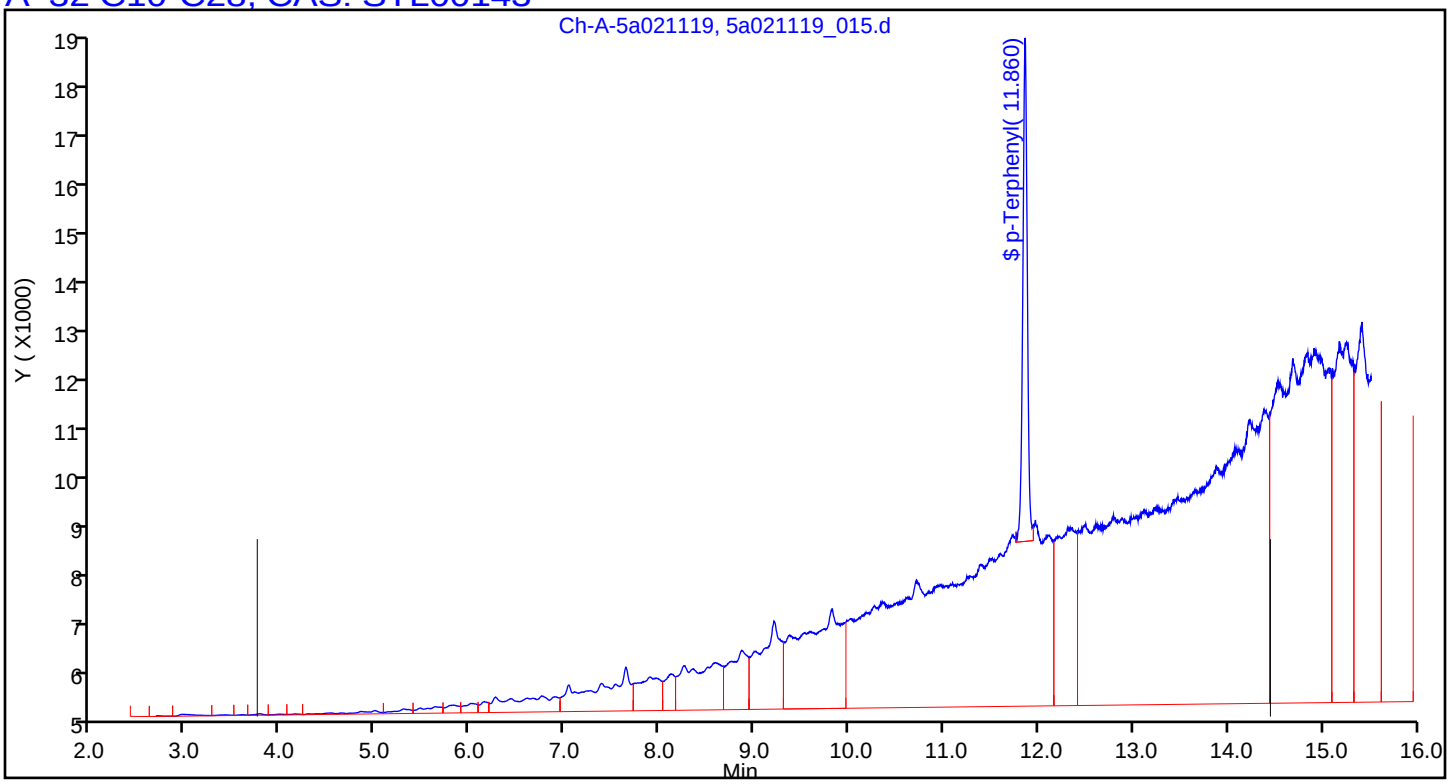
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	12.9	103.40

Report Date: 12-Feb-2019 11:35:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_015.d				
Injection Date:	11-Feb-2019 15:07:21	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-5-E	Lab Sample ID:	720-91069-5		
Client ID:	DG-AJ13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

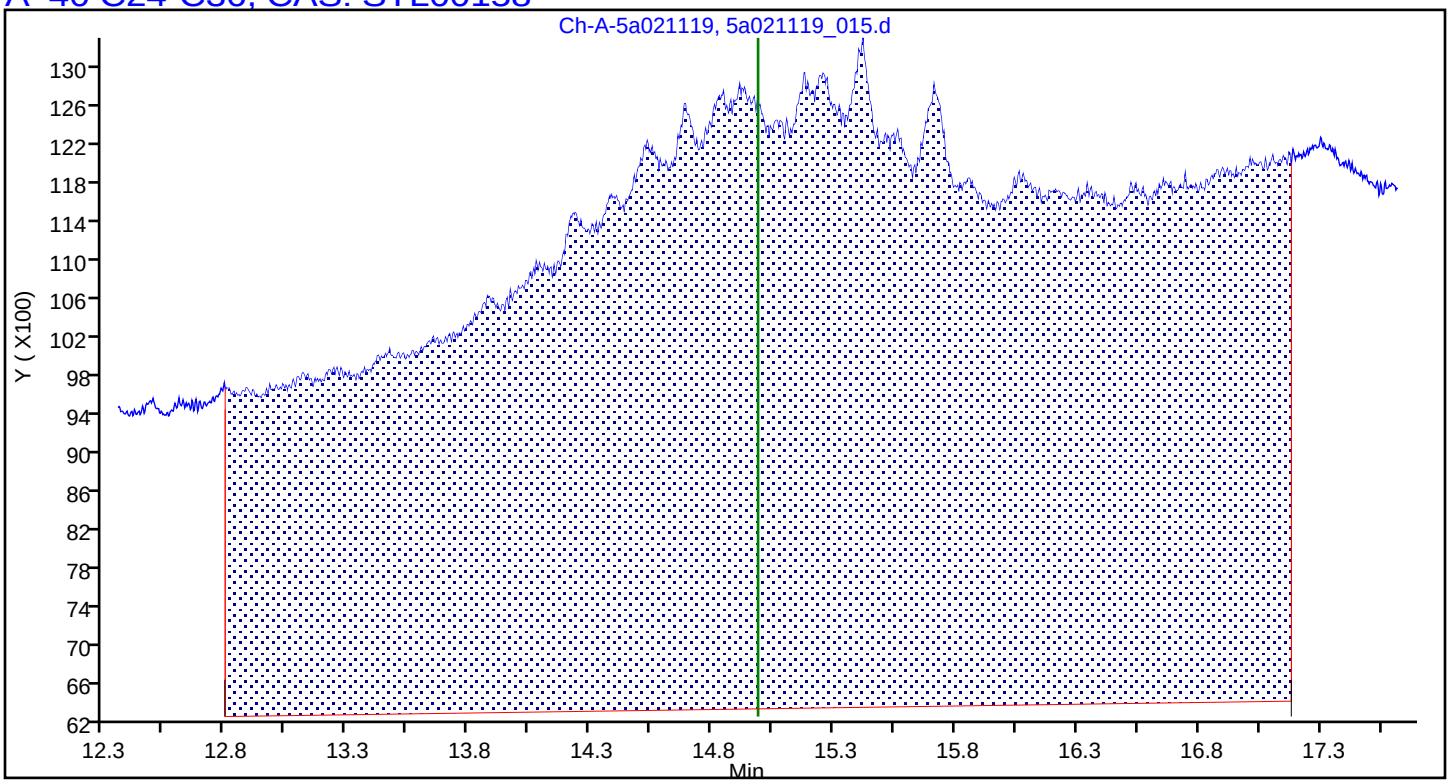


Report Date: 12-Feb-2019 11:35:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_015.d				
Injection Date:	11-Feb-2019 15:07:21	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-5-E	Lab Sample ID:	720-91069-5		
Client ID:	DG-AJ13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

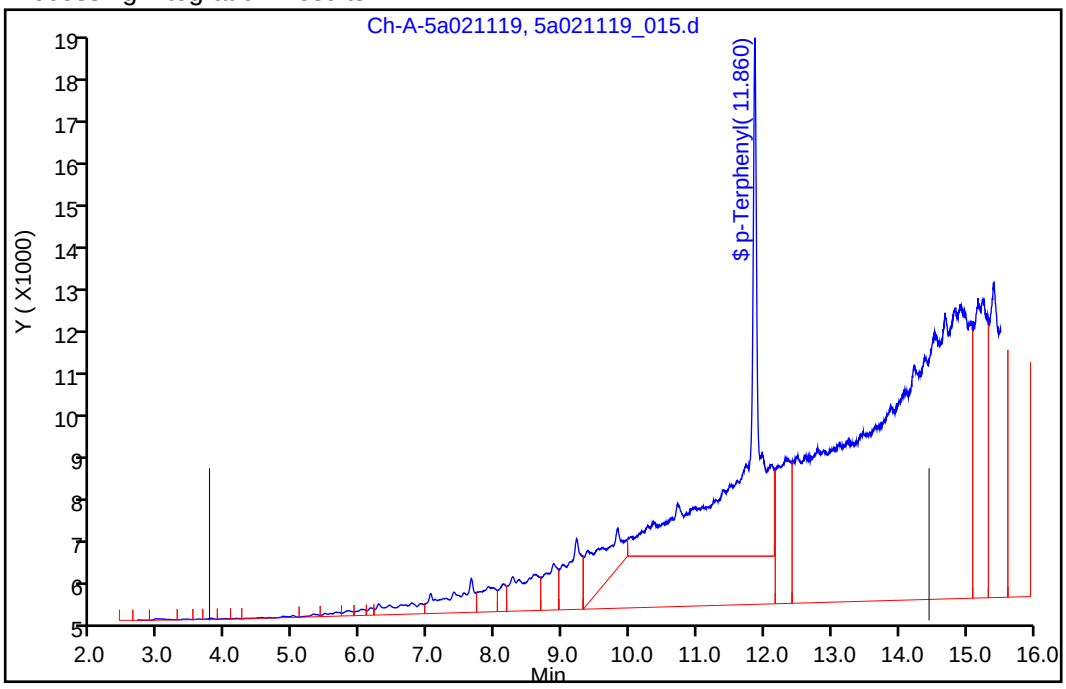
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Injection Date:	11-Feb-2019 15:07:21	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-5-E	Lab Sample ID:	720-91069-5		
Client ID:	DG-AJ13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.099, CAS: STL00143

Signal: 1

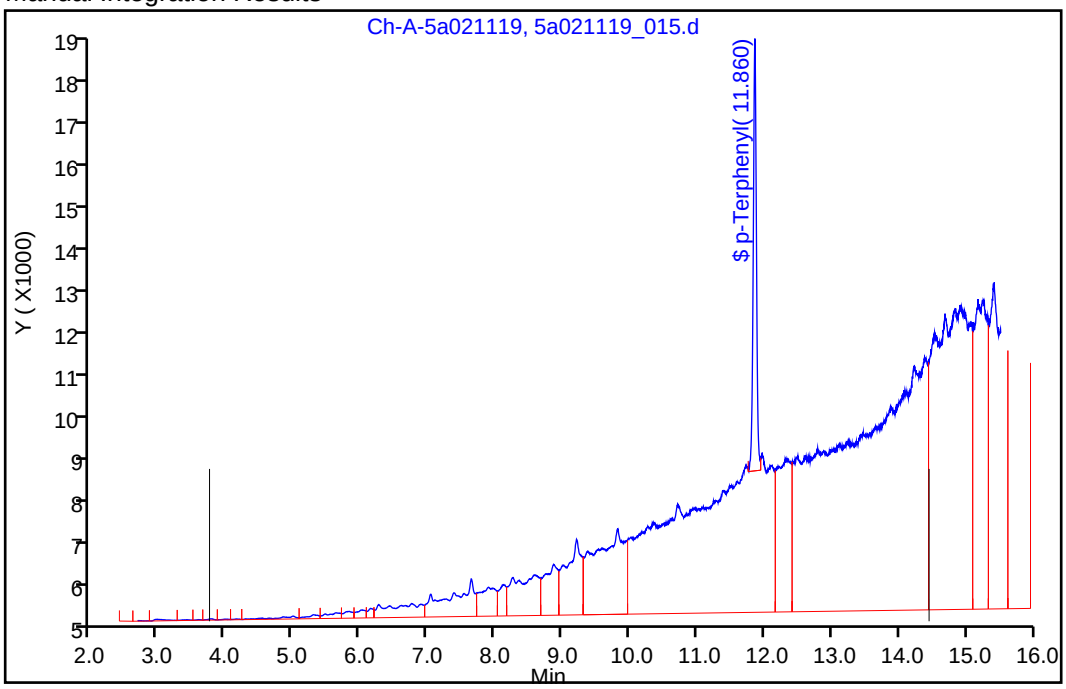
Processing Integration Results

RT: 9.10
Response: 1857698
Amount: 189.5414



Manual Integration Results

RT: 9.10
Response: 5070170
Amount: 517.3108



Reviewer: luj, 12-Feb-2019 11:35:13

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

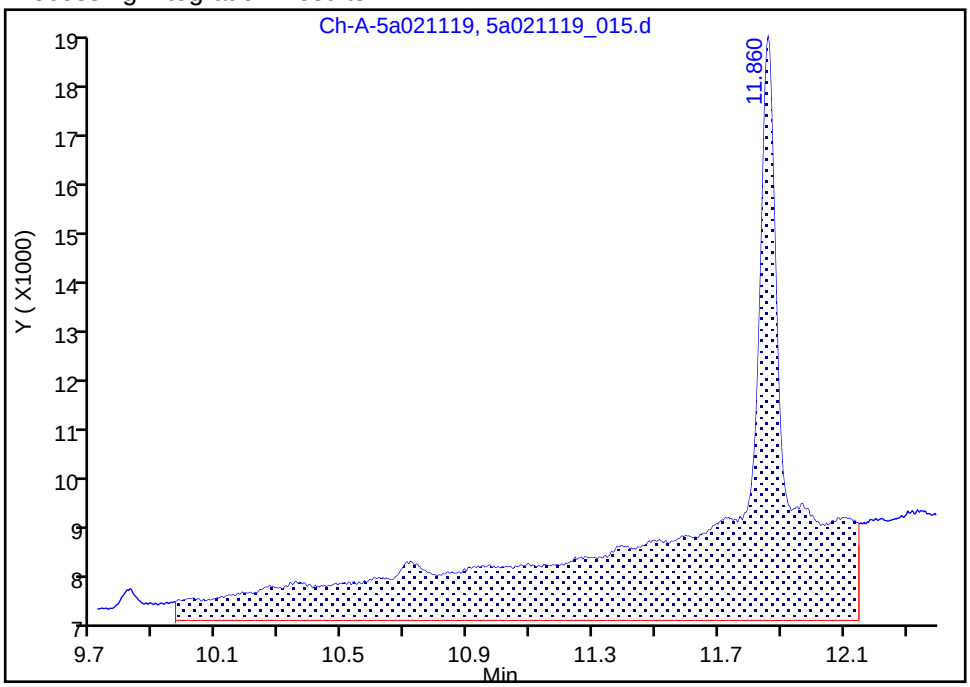
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Injection Date:	11-Feb-2019 15:07:21	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-5-E	Lab Sample ID:	720-91069-5		
Client ID:	DG-AJ13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

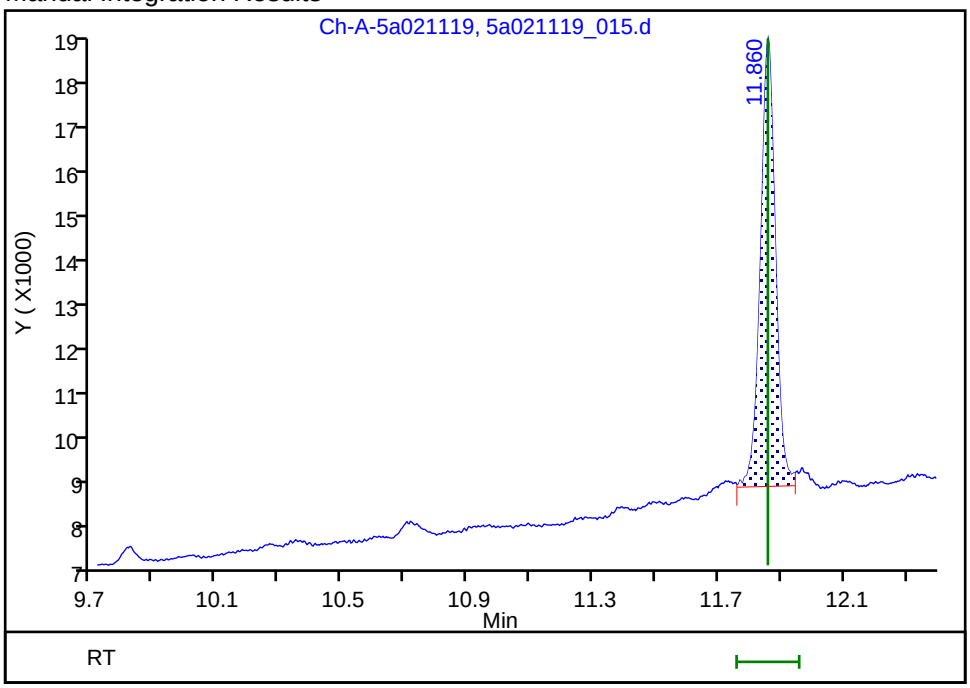
Processing Integration Results

RT: 11.86
Area: 907969
Amount: 76.140510
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 154125
Amount: 12.924622
Amount Units: mg/L



Reviewer: luj, 12-Feb-2019 11:35:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_016.d
Lims ID: 720-91069-E-6-E
Client ID: DG-AL13S-0.5-1
Sample Type: Client
Inject. Date: 11-Feb-2019 15:36:20 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 006 Name: 720-0056534-016
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\DRO5A.m
Limit Group: DRO
Last Update: 12-Feb-2019 11:43:20 Calib Date: 11-Feb-2019 11:06:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_007.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 11:43:20

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.500			ND	
23 n-Decane	3.771	3.748	0.023	953	NC	
A 1 C9-C13	4.485	(2.500-6.471)		31729	2.54	M
A 21 Stoddard Solvent	4.485	(2.500-6.471)		31729	NC	M
A 57 C10-C12	4.708	(3.748-5.668)		9135	0.9320	M
24 Dodecane		5.668			ND	
A 3 C9 - C17	5.848	(2.500-9.196)		144395	11.9	M
A 47 C9 - C18	6.144	(2.500-9.788)		246277	22.9	M
A 60 C10-C16	6.153	(3.748-8.559)		123292	11.2	M
A 15 Kerosene	6.414	(2.500-10.329)		316606	29.4	M
A 25 C9-C19	6.414	(2.500-10.329)		316606	25.9	M
26 C13	6.427	6.471	-0.044	14369	NC	M
A 59 C12-C16	7.114	(5.668-8.559)		114157	11.6	M
$ 27 n-Decanoic Acid (Surr)		7.133			ND	
A 62 C10-C20	7.307	(3.748-10.866)		512094	52.2	M
A 28 C9-C24	7.648	(2.500-12.795)		903127	92.1	M
A 29 C9-C25	7.866	(2.500-13.232)		903127	92.1	M
A 54 C10-C23	8.045	(3.748-12.342)		901004	91.9	M
A 4 C10-C24	8.271	(3.748-12.795)		901004	91.9	M
A 16 C10-C25	8.490	(3.748-13.232)		901004	91.9	M
45 Hexadecane	8.573	8.559	0.014	18980	NC	M
A 14 C10-C26	8.700	(3.748-13.653)		1460319	149.0	M
A 67 C12-C22	8.769	(5.668-11.870)		750646	76.6	M
A 12 Unknown Hydrocarbons	9.099	(3.748-14.451)		2231952	NC	M
A 32 C10-C28	9.099	(3.748-14.451)		2231952	227.7	M
A 5 Diesel	9.099	(3.748-14.451)		2231952	227.7	M
A 30 C13-C22	9.171	(6.471-11.870)		744544	76.0	M
44 Heptadecane	9.203	9.196	0.007	60856	NC	M
A 31 C12-C24	9.232	(5.668-12.795)		891869	91.0	M
49 n-Octadecane		9.788			ND	
A 9 Crude Oil Range Organics (	9.841	(2.500-17.183)		5831681	NC	
A 52 Mineral oil	9.841	(2.500-17.183)		5831681	507.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.841	(2.500-17.183)		5078424	NC	M
33 C19		10.329			ND	
A 64 C13-C28	10.461	(6.471-14.451)		2216715	226.2	M
A 17 C10-C36	10.465	(3.748-17.183)		5076301	517.9	M
A 13 C9-C40	10.601	(2.500-18.702)		7597314	924.8	
A 68 Crude Oil Range Organics (	10.601	(2.500-18.702)		7597314	NC	
A 58 C16-C24	10.677	(8.559-12.795)		777712	79.4	M
61 icosane	10.937	10.866	0.071	41281	NC	M
A 6 C10-C40	11.225	(3.748-18.702)		7591587	924.5	
$ 34 p-Terphenyl	11.860	11.859	0.001	144537	12.1	M
35 n-Docosane		11.870			ND	
A 18 C12-C40	12.185	(5.668-18.702)		7564107	921.4	
36 Tricosane		12.342			ND	
A 66 C13-C40	12.587	(6.471-18.702)		7533349	917.6	
37 n-Tetracosane		12.795			ND	
A 2 C16-C36 ORO	12.871	(8.559-17.183)		5606952	738.8	
38 C25	13.233	13.232	0.001	559315	NC	M
A 19 C16-C40	13.631	(8.559-18.702)		7372585	897.9	
46 n-Hexacosane		13.653			ND	
A 20 C19-C36	13.756	(10.329-17.183)		4712358	546.1	
A 55 C23-C32	14.120	(12.342-15.899)		2940635	618.4	
39 n-Octacosane	14.427	14.451	-0.024	237677	NC	M
65 C29	14.833	14.831	0.002	499414	NC	M
A 7 Motor Oil	14.989	(12.795-17.183)		3944739	647.5	
A 40 C24-C36	14.989	(12.795-17.183)		3944739	647.5	
A 50 C25-C36	15.207	(13.232-17.183)		3740749	646.6	
A 10 C22-C40	15.286	(11.870-18.702)		5827320	697.0	
A 41 C23-C40	15.522	(12.342-18.702)		5759080	702.2	
A 8 C24-C40	15.749	(12.795-18.702)		5577220	701.1	
56 Dotriacontane		15.899			ND	
A 51 C28-C40	16.577	(14.451-18.702)		4575922	756.1	
A 63 C29-C40	16.767	(14.831-18.702)		4223735	774.8	
42 n-Hexatriacontane		17.183			ND	
43 C40		18.702			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

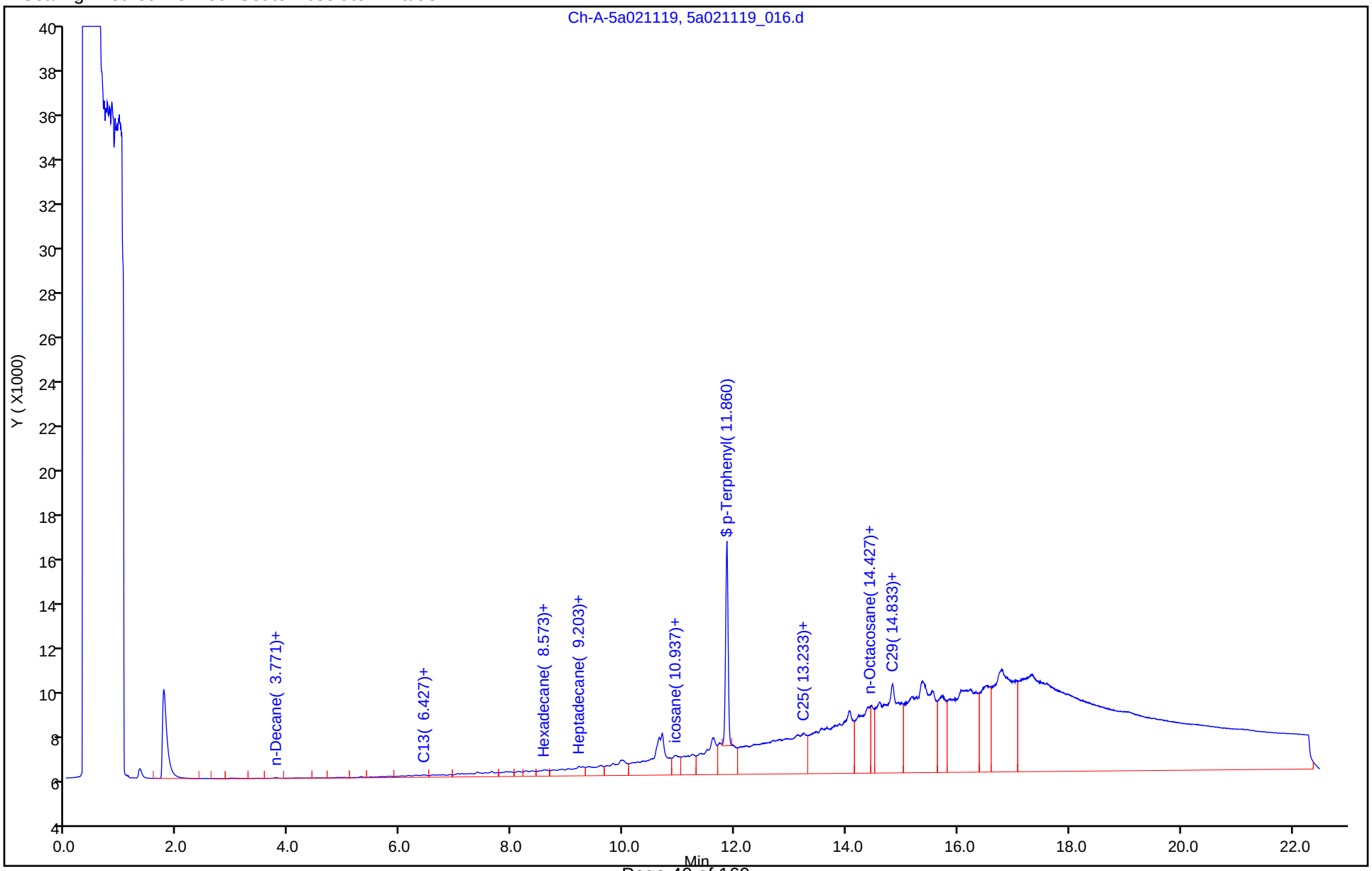
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_016.d

Injection Date:	11-Feb-2019 15:36:20	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-6-E	Lab Sample ID:	720-91069-6	Worklist Smp#:	16
Client ID:	DG-AL13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_016.d				
Lims ID:	720-91069-E-6-E				
Client ID:	DG-AL13S-0.5-1				
Sample Type:	Client				
Inject. Date:	11-Feb-2019 15:36:20	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 006 Name: 720-0056534-016				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 11:43:20	Calib Date:	11-Feb-2019 11:06:00		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_007.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 11:43:20

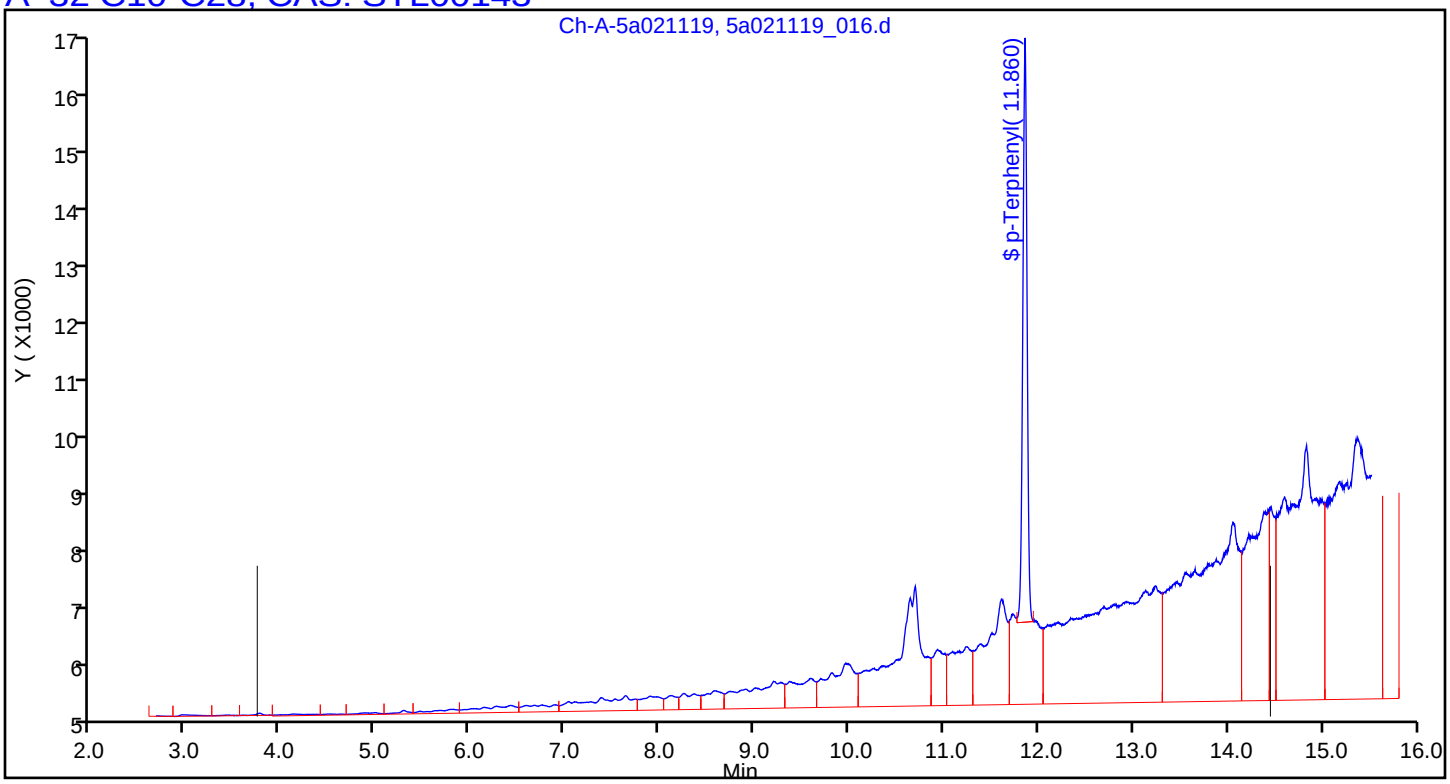
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	12.1	96.96

Report Date: 12-Feb-2019 11:43:22 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_016.d				
Injection Date:	11-Feb-2019 15:36:20	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-6-E	Lab Sample ID:	720-91069-6		
Client ID:	DG-AL13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

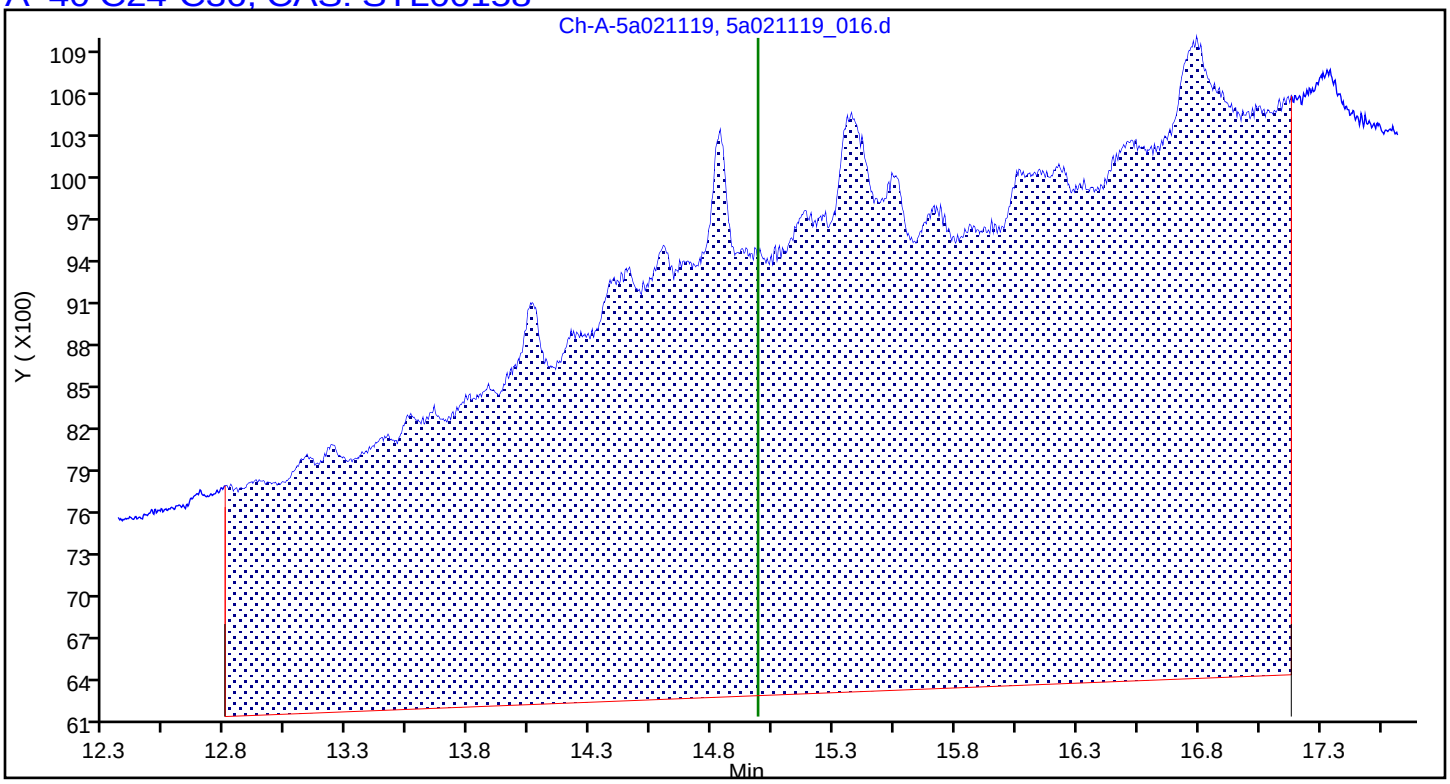


Report Date: 12-Feb-2019 11:43:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_016.d				
Injection Date:	11-Feb-2019 15:36:20	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-6-E	Lab Sample ID:	720-91069-6		
Client ID:	DG-AL13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

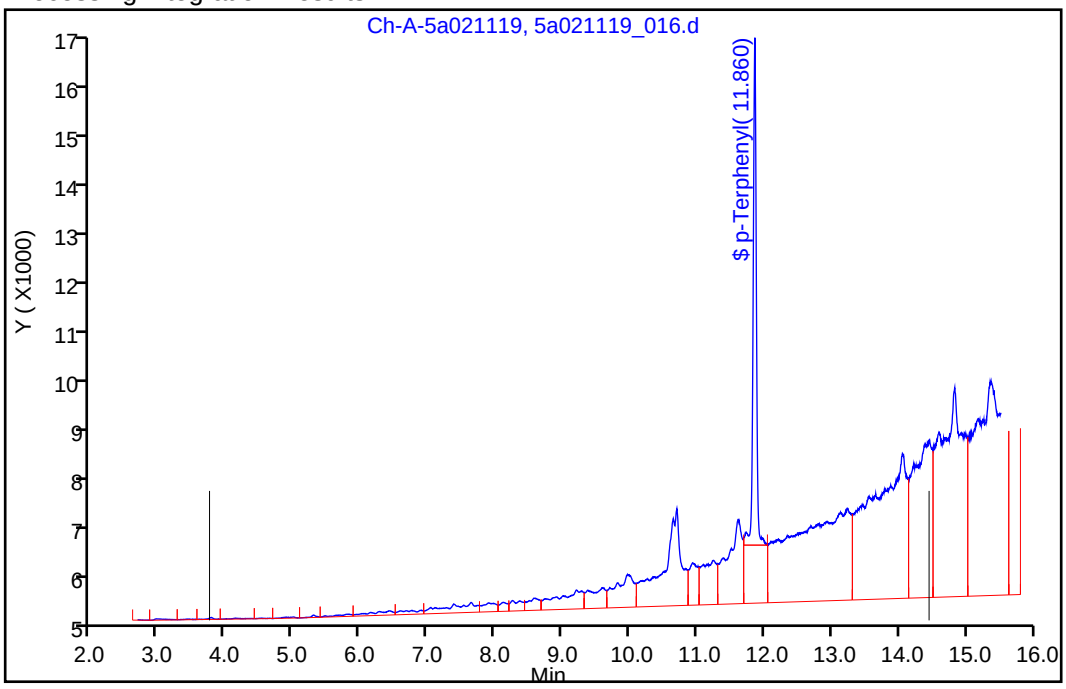
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Injection Date:	11-Feb-2019 15:36:20	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-6-E	Lab Sample ID:	720-91069-6		
Client ID:	DG-AL13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.099, CAS: STL00143

Signal: 1

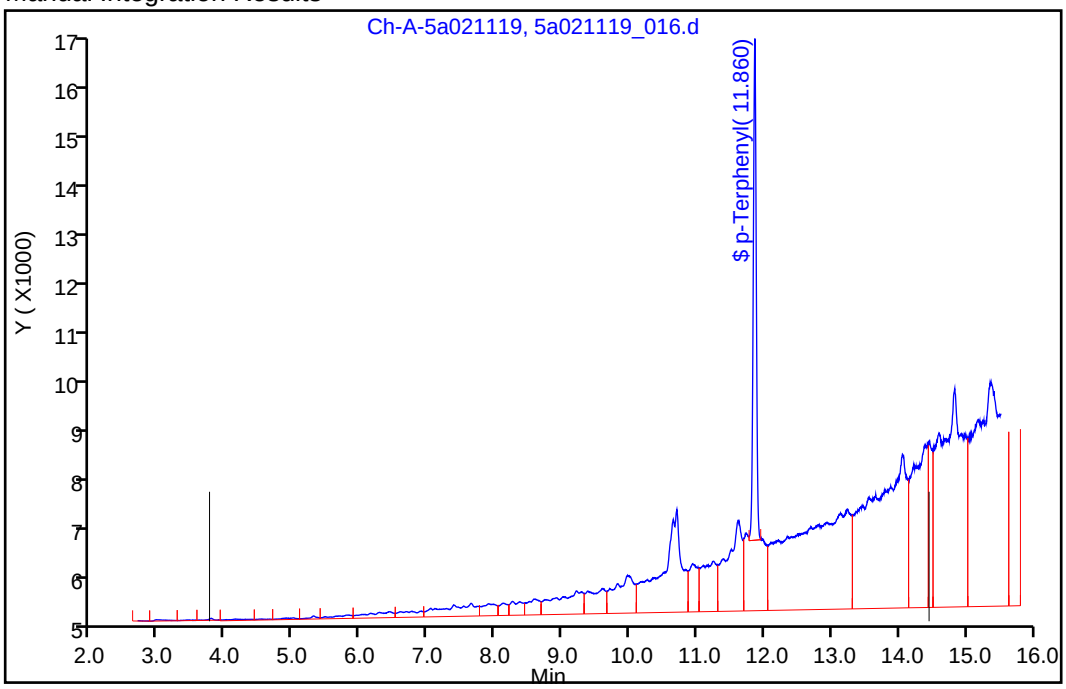
Processing Integration Results

RT: 9.10
Response: 2014457
Amount: 205.5356



Manual Integration Results

RT: 9.10
Response: 2231952
Amount: 227.7267



Reviewer: luj, 12-Feb-2019 11:42:59

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

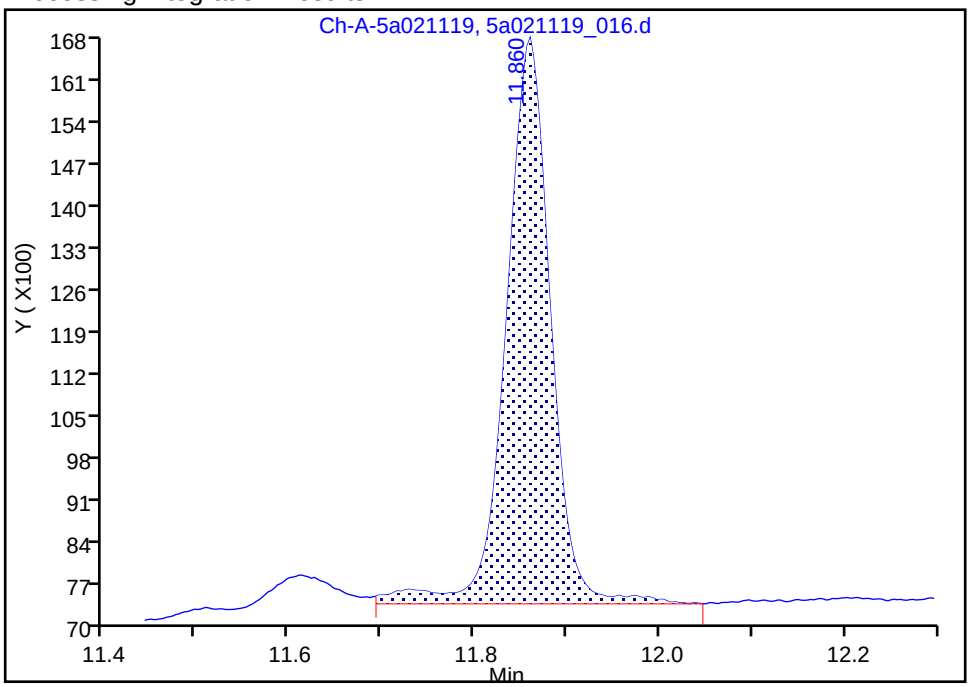
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_016.d				
Injection Date:	11-Feb-2019 15:36:20	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-6-E	Lab Sample ID:	720-91069-6		
Client ID:	DG-AL13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

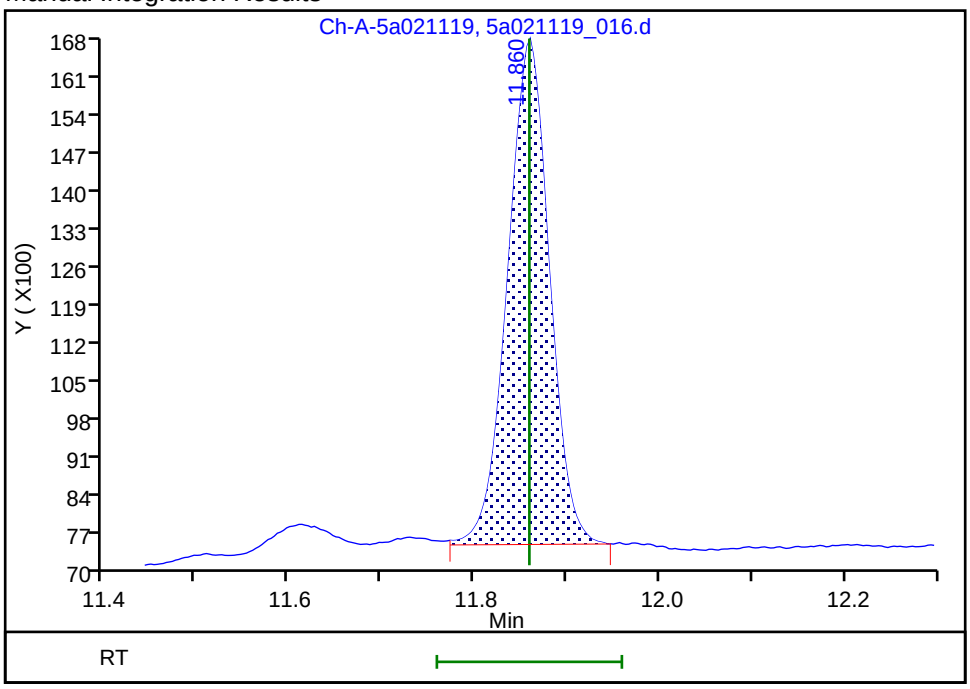
Processing Integration Results

RT: 11.86
Area: 156862
Amount: 13.154141
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 144537
Amount: 12.120591
Amount Units: mg/L



Reviewer: luj, 12-Feb-2019 11:43:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\5b021119_010.d
Lims ID: 720-91069-E-7-E
Client ID: DG-AL13S-3.5-4
Sample Type: Client
Inject. Date: 11-Feb-2019 12:41:46 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 137 Name: 720-0056535-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\DRO5B.m
Limit Group: DRO
Last Update: 12-Feb-2019 12:58:47 Calib Date: 11-Feb-2019 12:04:38
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\5b021119_009.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 12:58:47

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.616	2.632	-0.016	473	NC	
	23 n-Decane	3.884	3.852	0.032	1062	NC	
A	1 C9-C13	4.589	(2.632-6.546)		11771	0.99	
A	21 Stoddard Solvent	4.589	(2.632-6.546)		11771	1.04	
A	57 C10-C12	4.800	(3.852-5.748)		4945	0.5037	
	24 Dodecane	5.698	5.748	-0.050	450	NC	
A	3 C9 - C17	5.939	(2.632-9.247)		47665	3.47	
A	47 C9 - C18	6.228	(2.632-9.823)		68726	6.12	
A	60 C10-C16	6.236	(3.852-8.619)		35808	2.95	
A	15 Kerosene	6.505	(2.632-10.378)		91988	8.18	
A	25 C9-C19	6.505	(2.632-10.378)		91988	6.67	
	26 C13	6.503	6.546	-0.043	941	NC	
$	27 n-Decanoic Acid (Surr)		7.163			ND	U
A	59 C12-C16	7.184	(5.748-8.619)		31313	3.19	
A	62 C10-C20	7.382	(3.852-10.911)		124534	12.7	
A	28 C9-C24	7.730	(2.632-12.828)		297012	30.3	
A	29 C9-C25	7.947	(2.632-13.262)		337861	34.4	
A	54 C10-C23	8.115	(3.852-12.377)		242957	24.7	
A	4 C10-C24	8.340	(3.852-12.828)		293415	29.9	
A	16 C10-C25	8.557	(3.852-13.262)		334264	34.0	
	45 Hexadecane	8.599	8.619	-0.020	5858	NC	
A	14 C10-C26	8.766	(3.852-13.680)		381701	38.9	
A	67 C12-C22	8.828	(5.748-11.909)		230180	23.4	
A	5 Diesel	9.163	(3.852-14.474)		473944	48.3	
A	32 C10-C28	9.163	(3.852-14.474)		473944	48.3	
A	12 Unknown Hydrocarbons	9.163	(3.852-14.474)		473944	NC	
A	30 C13-C22	9.228	(6.546-11.909)		227442	23.2	
	44 Heptadecane	9.261	9.247	0.014	8161	NC	
A	31 C12-C24	9.288	(5.748-12.828)		288920	29.4	
	49 n-Octadecane	9.866	9.823	0.043	6395	NC	
A	52 Mineral oil	9.907	(2.632-17.183)		1411443	126.5	
A	9 Crude Oil Range Organics (	9.483	(2.807-16.160)		1137022	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.907	(2.632-17.183)		797656	NC	
33 C19	10.381	10.378	0.003	5149	NC	
A 64 C13-C28	10.510	(6.546-14.474)		466711	47.5	
A 17 C10-C36	10.006	(3.852-16.160)		794059	80.9	
A 13 C9-C40	10.661	(2.632-18.690)		1799655	191.6	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		1799655	NC	
A 58 C16-C24	10.724	(8.619-12.828)		263465	26.8	
61 icosane	10.957	10.911	0.046	5061	NC	
A 6 C10-C40	11.271	(3.852-18.690)		1794933	191.3	
$ 34 p-Terphenyl	11.880	11.883	-0.003	300855	26.2	M
35 n-Docosane		11.909			ND	
A 18 C12-C40	12.219	(5.748-18.690)		1780601	189.9	
36 Tricosane	12.383	12.377	0.006	14025	NC	
A 66 C13-C40	12.618	(6.546-18.690)		1579892	165.8	
37 n-Tetracosane	12.826	12.828	-0.002	29272	NC	
A 2 C16-C36 ORO	12.901	(8.619-17.183)		989770	138.7	
38 C25	13.261	13.262	-0.001	15666	NC	
A 19 C16-C40	13.654	(8.619-18.690)		1709512	181.6	
46 n-Hexacosane	13.676	13.680	-0.004	20533	NC	
A 20 C19-C36	13.780	(10.378-17.183)		733955	94.1	
A 55 C23-C32	14.143	(12.377-15.910)		499427	121.6	
39 n-Octacosane	14.474	14.474	0.000	13257	NC	
65 C29	14.845	14.849	-0.004	27922	NC	
A 40 C24-C36	15.005	(12.828-17.183)		740007	129.6	
A 7 Motor Oil	15.005	(12.828-17.183)		740007	129.6	
A 50 C25-C36	15.222	(13.262-17.183)		702705	130.6	
A 10 C22-C40	15.299	(11.909-18.690)		847377	107.0	
A 41 C23-C40	15.533	(12.377-18.690)		1092727	141.3	
A 8 C24-C40	15.759	(12.828-18.690)		1058837	142.0	
56 Dotriacontane	15.915	15.910	0.005	20873	NC	
A 51 C28-C40	16.582	(14.474-18.690)		867294	143.6	
A 63 C29-C40	16.770	(14.849-18.690)		799771	146.1	
42 n-Hexatriacontane		17.183			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

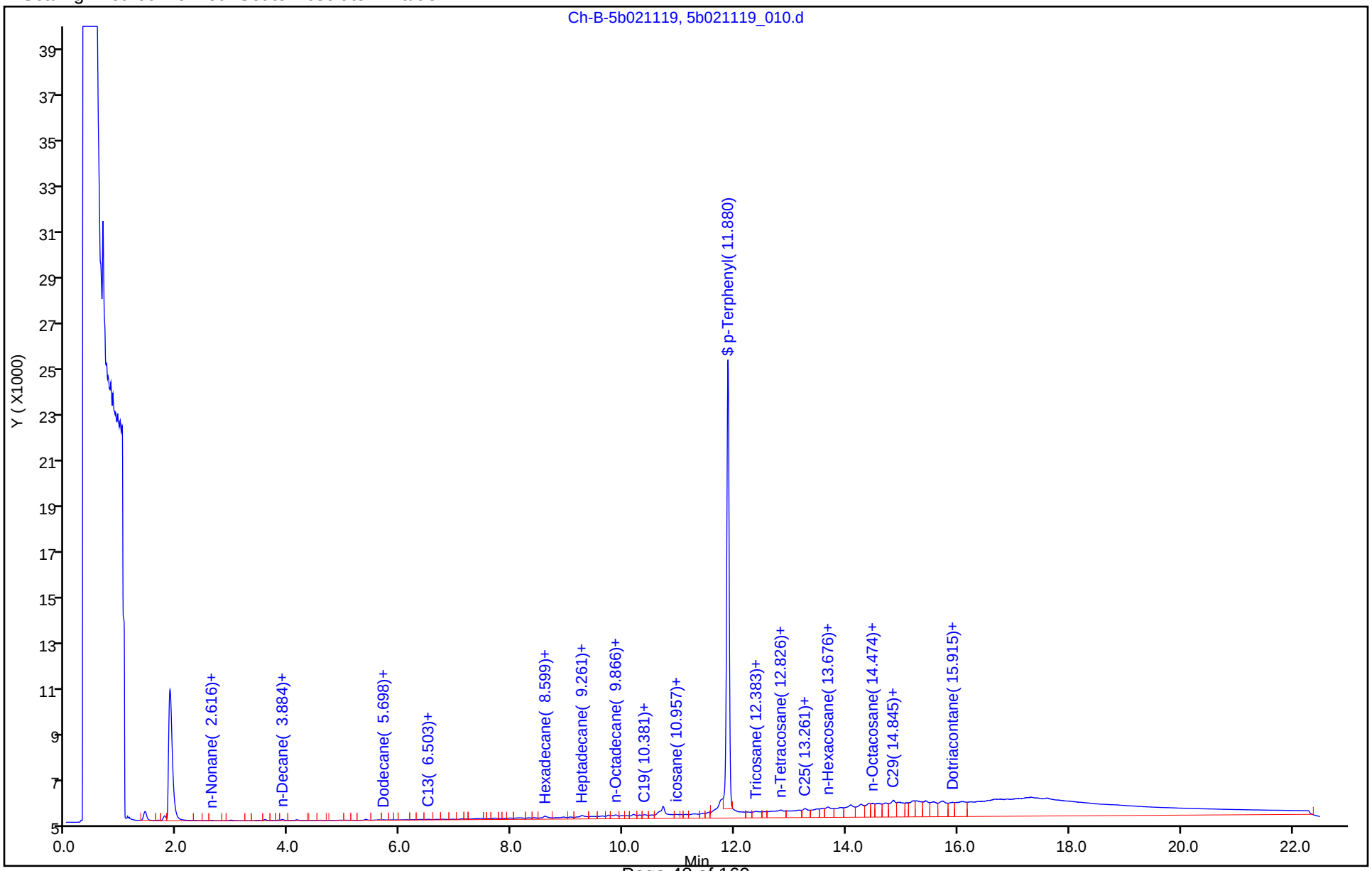
Report Date: 12-Feb-2019 12:58:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\5b021119_010.d

Injection Date:	11-Feb-2019 12:41:46	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-7-E	Lab Sample ID:	720-91069-7	Worklist Smp#:	10
Client ID:	DG-AL13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\5b021119_010.d				
Lims ID:	720-91069-E-7-E				
Client ID:	DG-AL13S-3.5-4				
Sample Type:	Client				
Inject. Date:	11-Feb-2019 12:41:46	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 137 Name: 720-0056535-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 12:58:47	Calib Date:	11-Feb-2019 12:04:38		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\5b021119_009.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 12:58:47

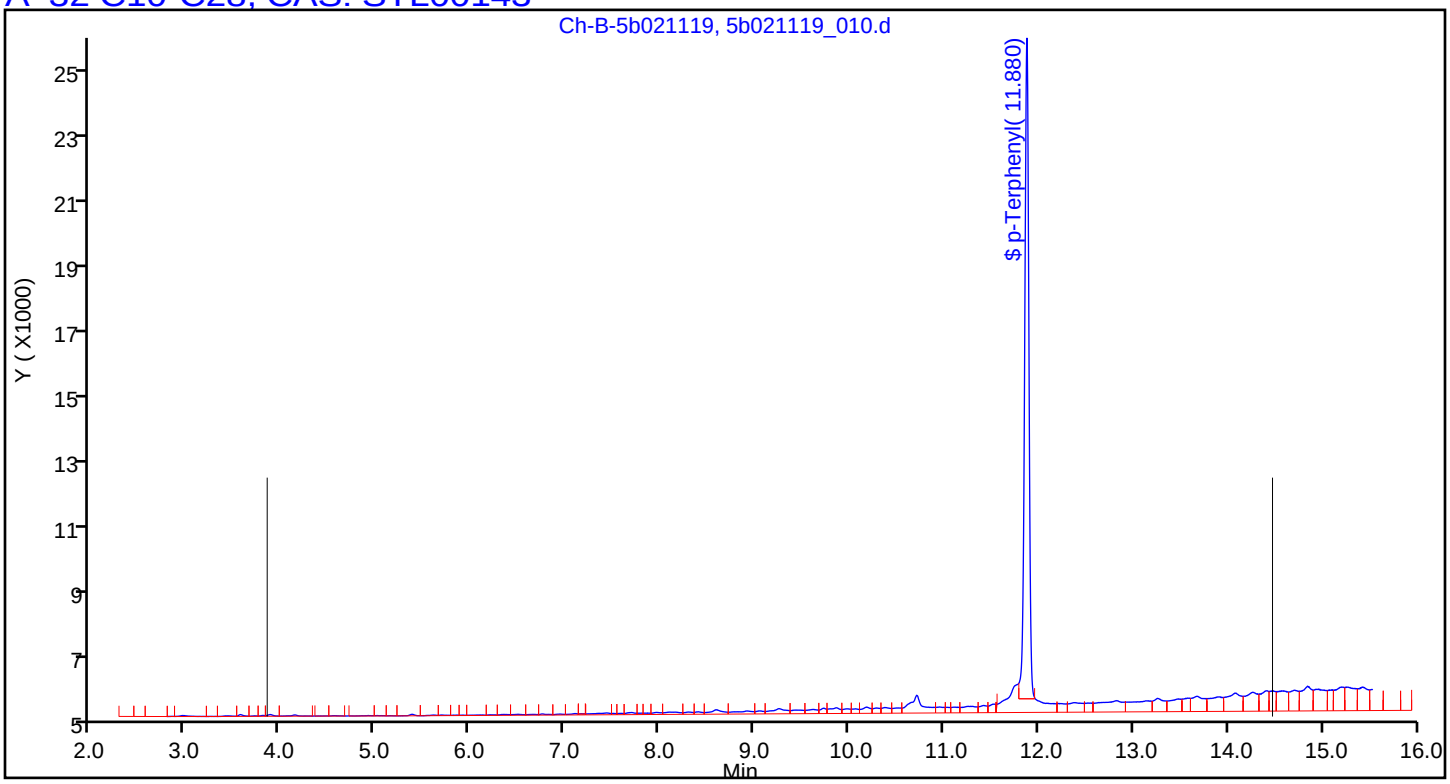
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.2	104.78

Report Date: 12-Feb-2019 12:58:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\5b021119_010.d				
Injection Date:	11-Feb-2019 12:41:46	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-7-E	Lab Sample ID:	720-91069-7		
Client ID:	DG-AL13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

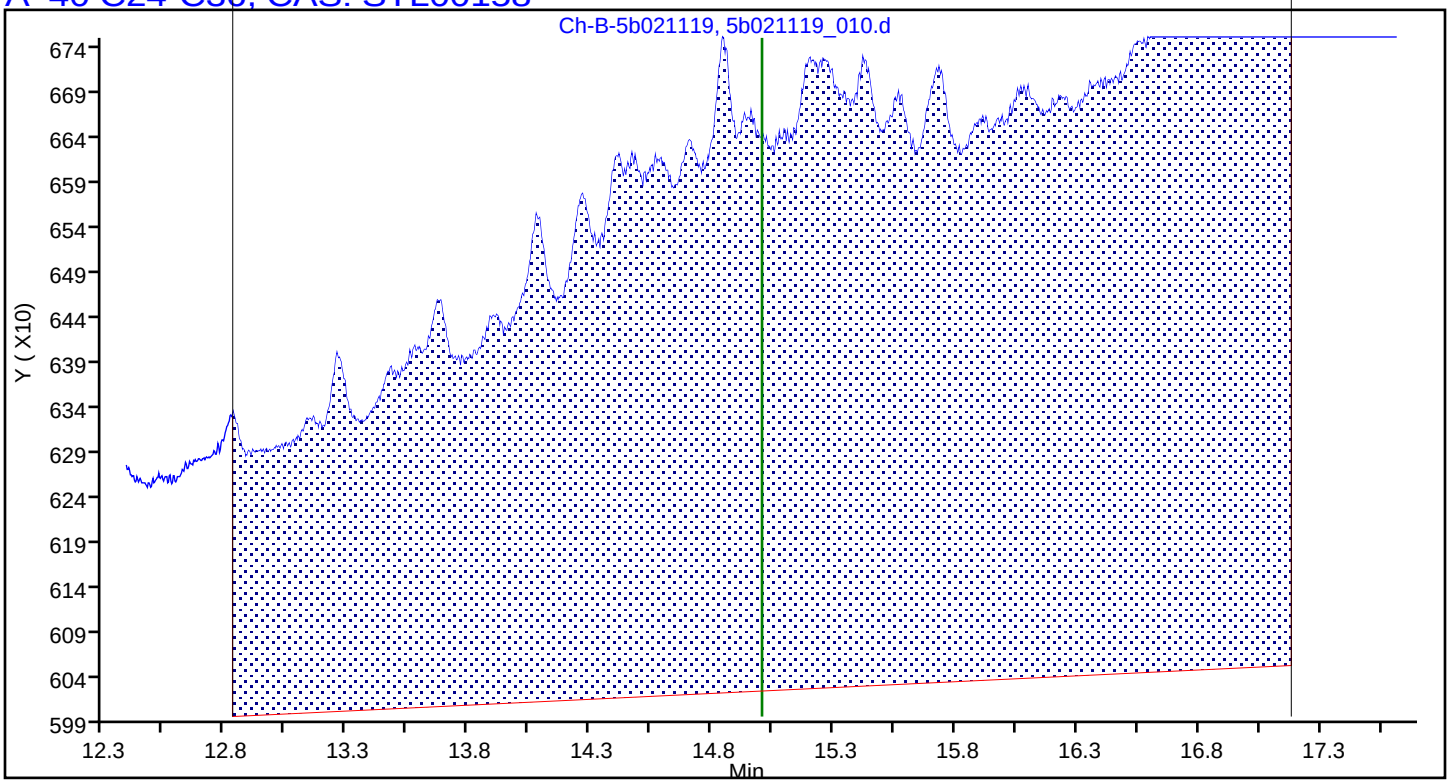


Report Date: 12-Feb-2019 12:58:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56535.b\5b021119_010.d				
Injection Date:	11-Feb-2019 12:41:46	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-7-E	Lab Sample ID:	720-91069-7		
Client ID:	DG-AL13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

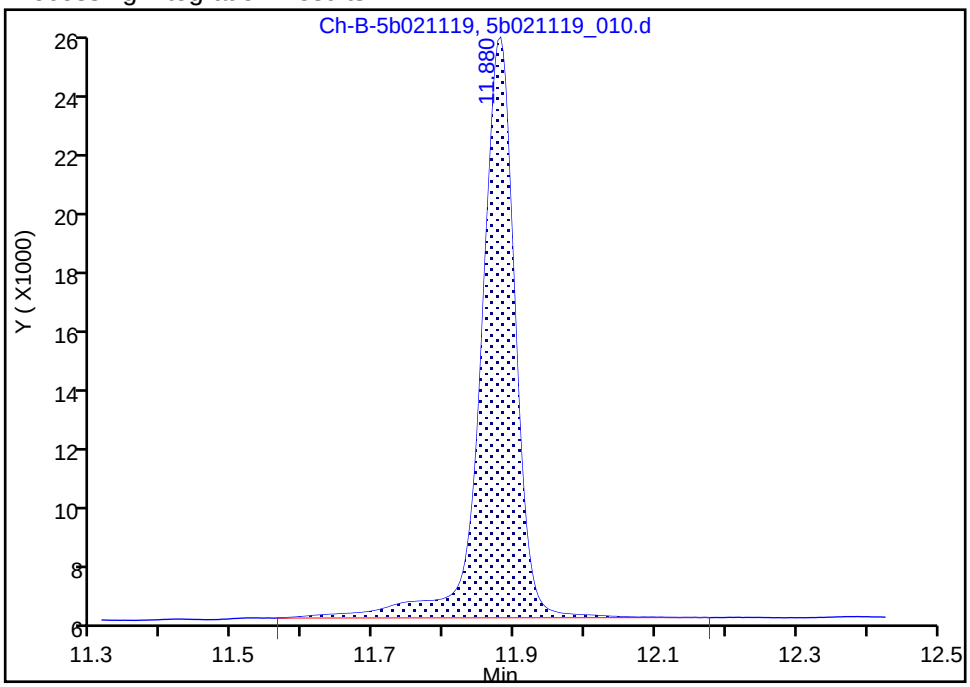
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Injection Date:	11-Feb-2019 12:41:46	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-7-E	Lab Sample ID:	720-91069-7		
Client ID:	DG-AL13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

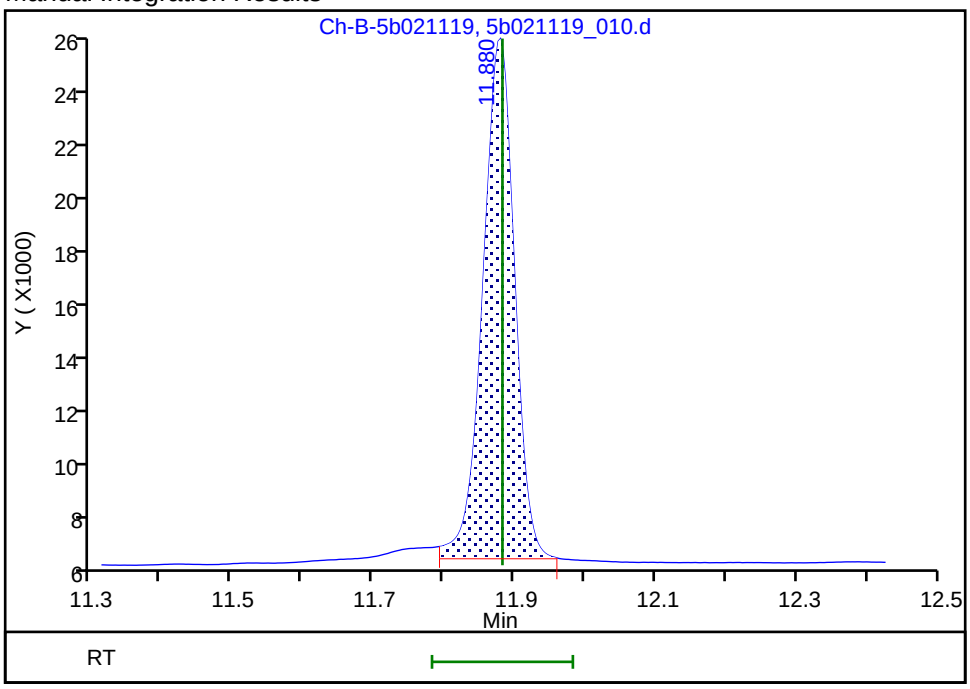
Processing Integration Results

RT: 11.88
Area: 328592
Amount: 28.609192
Amount Units: mg/L



Manual Integration Results

RT: 11.88
Area: 300855
Amount: 26.194243
Amount Units: mg/L



Reviewer: luj, 12-Feb-2019 12:58:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_032.d
Lims ID: 720-91069-E-8-D
Client ID: DG-AC11S-0.5-1
Sample Type: Client
Inject. Date: 10-Feb-2019 01:42:11 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 010 Name: 720-0056518-032
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:19:18 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:19:18

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.493	2.508	-0.015	148	NC	
	23 n-Decane	3.786	3.750	0.036	1355	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		672220	NC	
A	1 C9-C13	4.489	(2.508-6.469)		672220	NC	
A	57 C10-C12	4.708	(3.750-5.666)		183576	18.7	
	24 Dodecane	5.637	5.666	-0.029	131938	NC	
A	3 C9 - C17	5.850	(2.508-9.191)		6107578	503.9	
A	47 C9 - C18	6.145	(2.508-9.782)		8942894	830.8	
A	60 C10-C16	6.153	(3.750-8.556)		4286636	388.9	
A	25 C9-C19	6.415	(2.508-10.322)		14513124	1189.0	
A	15 Kerosene	6.415	(2.508-10.322)		14513124	1345.8	
	26 C13	6.427	6.469	-0.042	125697	NC	
A	59 C12-C16	7.111	(5.666-8.556)		4234998	432.1	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		14510932	1480.6	
A	28 C9-C24	7.646	(2.508-12.785)		16724675	1706.4	
A	29 C9-C25	7.864	(2.508-13.221)		16724675	1706.4	
A	54 C10-C23	8.041	(3.750-12.332)		16722483	1706.2	
A	4 C10-C24	8.267	(3.750-12.785)		16722483	1706.2	
A	16 C10-C25	8.485	(3.750-13.221)		16722483	1706.2	
	45 Hexadecane	8.569	8.556	0.013	828353	NC	
A	14 C10-C26	8.695	(3.750-13.641)		16722585	1706.2	
A	67 C12-C22	8.763	(5.666-11.861)		16670845	1700.9	
A	5 Diesel	9.094	(3.750-14.438)		18756596	1913.7	
A	32 C10-C28	9.094	(3.750-14.438)		18756596	1913.7	
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		18756596	NC	
A	30 C13-C22	9.165	(6.469-11.861)		16178152	1650.7	
	44 Heptadecane	9.207	9.191	0.016	1512350	NC	
A	31 C12-C24	9.226	(5.666-12.785)		16670845	1700.9	
	49 n-Octadecane	9.810	9.782	0.028	1235031	NC	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		19405289	NC	
A	52 Mineral oil	9.835	(2.508-17.162)		19564038	1703.2	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		19564038	NC	
33 C19	10.322	10.322	0.000	3265268	NC	
A 64 C13-C28	10.454	(6.469-14.438)		18212265	1858.2	
A 17 C10-C36	10.456	(3.750-17.162)		19403097	1979.7	
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		20583267	NC	
A 13 C9-C40	10.586	(2.508-18.664)		20583267	2579.9	
A 58 C16-C24	10.670	(8.556-12.785)		12435847	1268.8	
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		20575729	2579.0	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		20378158	2554.0	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		19879603	2490.6	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		14696150	1936.4	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		15715379	1961.3	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		5624088	651.8	
A 55 C23-C32	14.107	(12.332-15.882)		2226341	468.2	
39 n-Octacosane	14.523	14.438	0.085	86758	NC	
65 C29	14.906	14.816	0.090	150330	NC	
A 40 C24-C36	14.973	(12.785-17.162)		2130099	349.6	M
A 7 Motor Oil	14.973	(12.785-17.162)		1170149	192.1	
A 50 C25-C36	15.191	(13.221-17.162)		976748	168.8	
A 10 C22-C40	15.262	(11.861-18.664)		2570189	307.4	
A 41 C23-C40	15.498	(12.332-18.664)		2037130	248.4	
A 8 C24-C40	15.724	(12.785-18.664)		1725428	216.9	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		1224873	174.0	
A 63 C29-C40	16.740	(14.816-18.664)		1139558	176.2	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

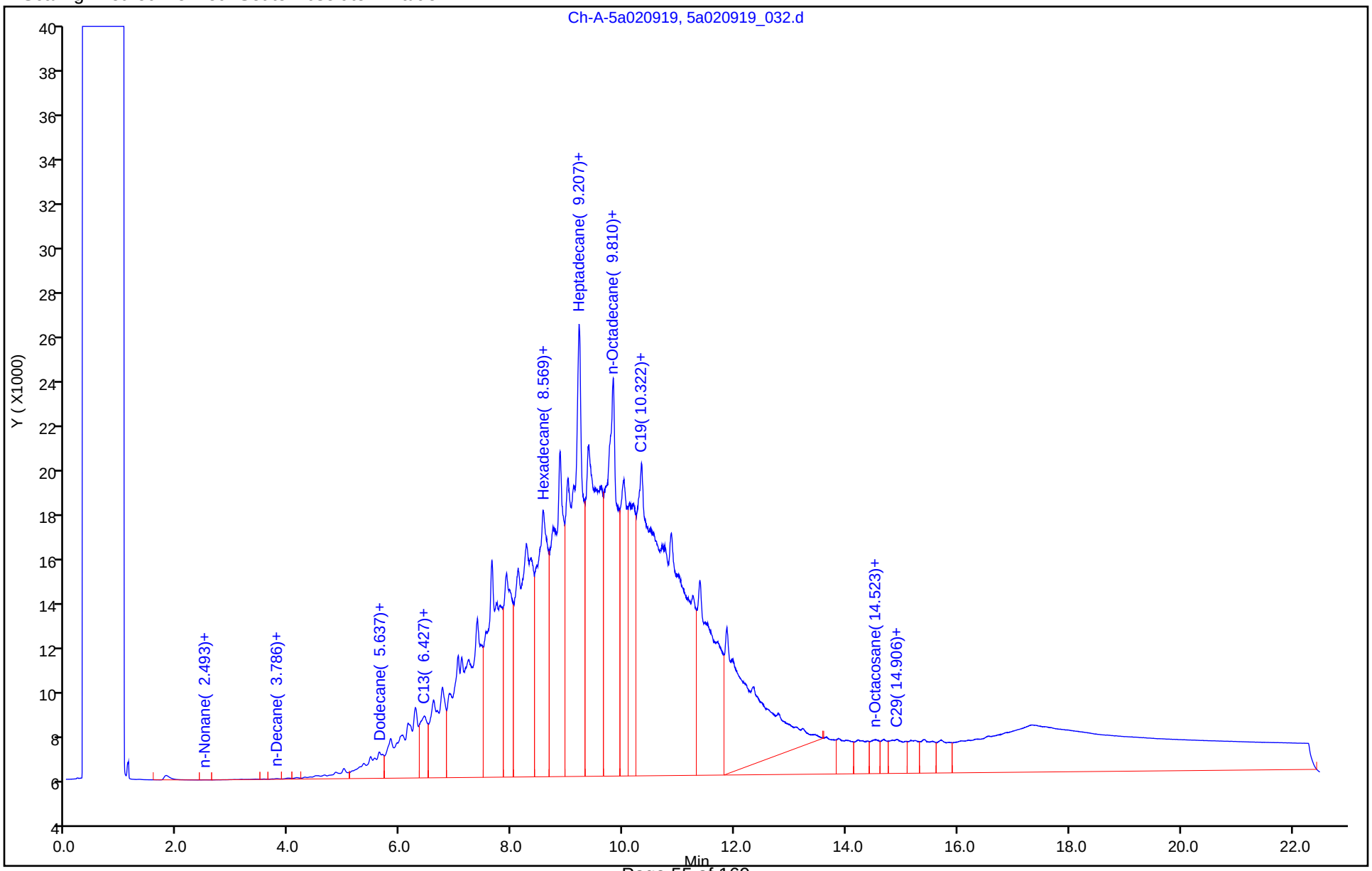
Report Date: 11-Feb-2019 12:19:19 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_032.d

Injection Date:	10-Feb-2019 01:42:11	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-8-D	Lab Sample ID:	720-91069-8	Worklist Smp#:	32
Client ID:	DG-AC11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

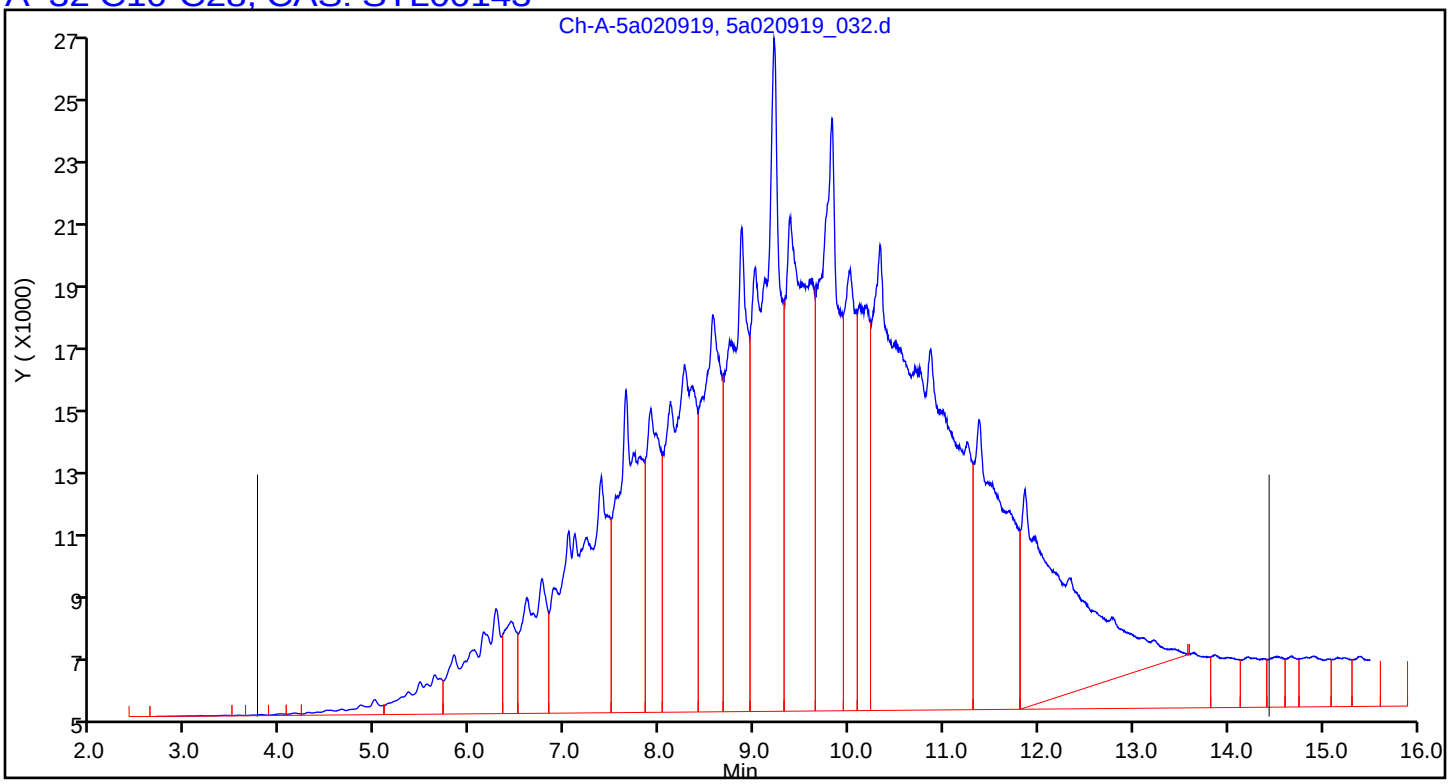


Report Date: 11-Feb-2019 12:19:19 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_032.d				
Injection Date:	10-Feb-2019 01:42:11	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-8-D	Lab Sample ID:	720-91069-8		
Client ID:	DG-AC11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

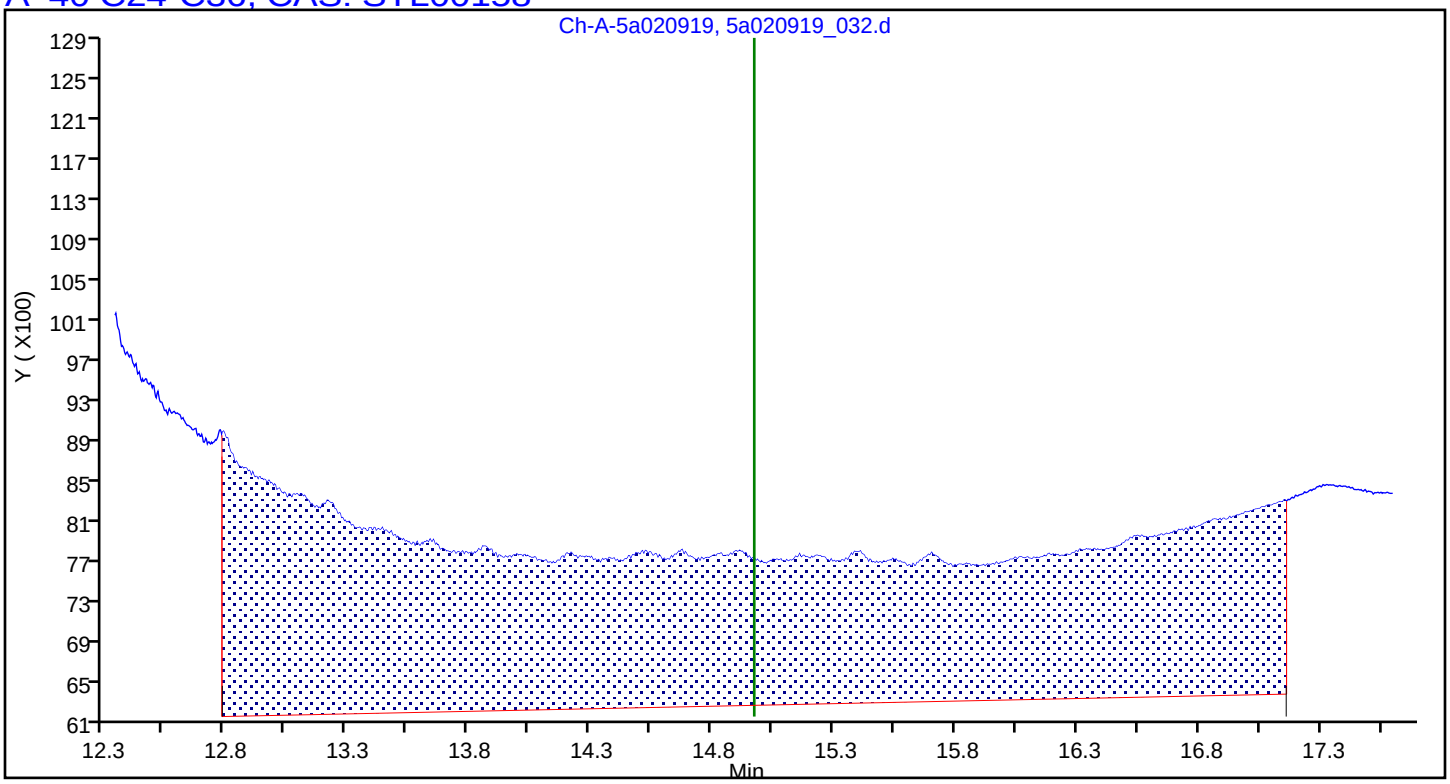


Report Date: 11-Feb-2019 12:19:20 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_032.d				
Injection Date:	10-Feb-2019 01:42:11	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-8-D	Lab Sample ID:	720-91069-8		
Client ID:	DG-AC11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

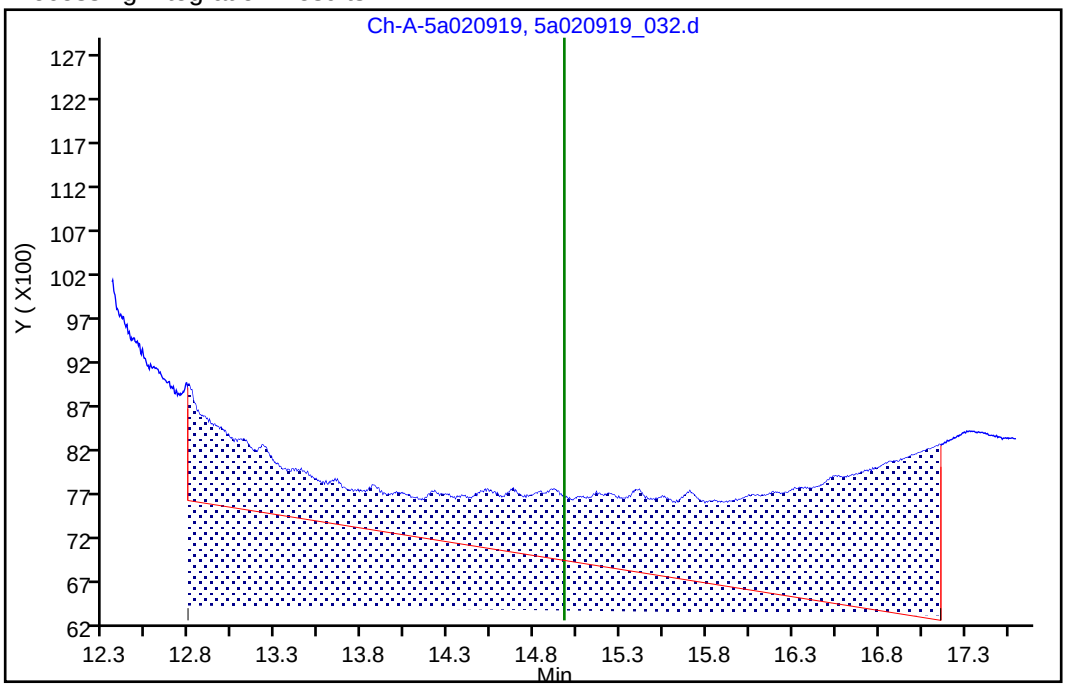
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_032.d				
Injection Date:	10-Feb-2019 01:42:11	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-8-D	Lab Sample ID:	720-91069-8		
Client ID:	DG-AC11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.973, CAS: STL00158

Signal: 1

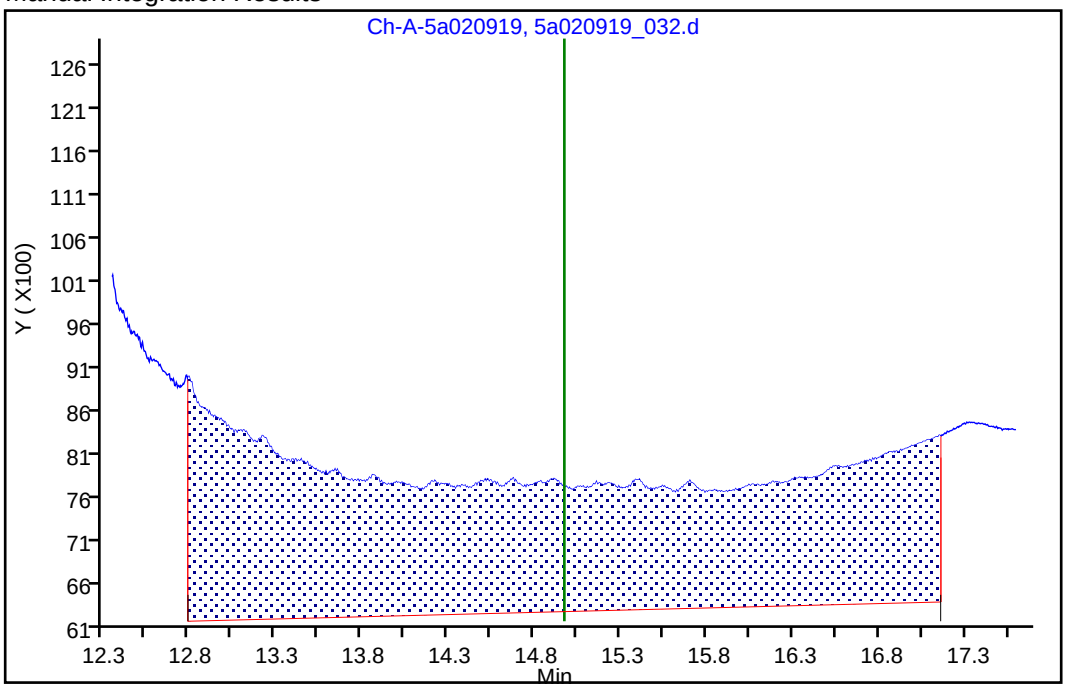
Processing Integration Results

RT: 14.97
Response: 1170047
Amount: 192.0592



Manual Integration Results

RT: 14.97
Response: 2130099
Amount: 349.6485



Reviewer: hayashid, 11-Feb-2019 12:19:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

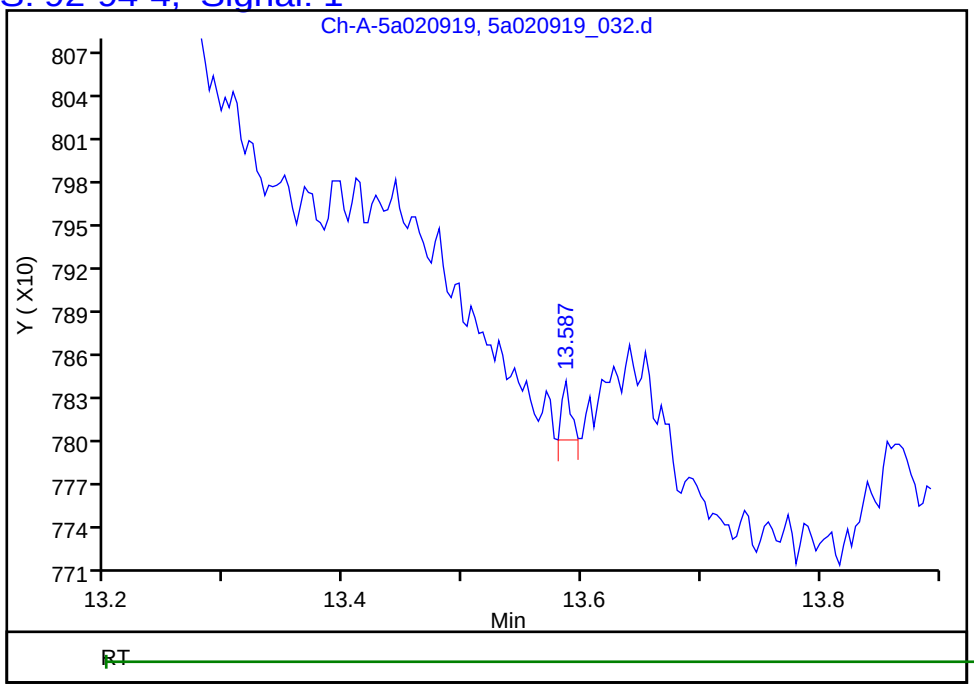
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_032.d

Injection Date:	10-Feb-2019 01:42:11	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-8-D	Lab Sample ID:	720-91069-8		
Client ID:	DG-AC11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 13.59
Response: 102
Amount: 0.008554



Reviewer: hayashid, 11-Feb-2019 12:19:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_033.d
Lims ID: 720-91069-E-9-D
Client ID: DG-AC11S-3.5-4
Sample Type: Client
Inject. Date: 10-Feb-2019 02:11:26 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: #: 011 Name: 720-0056518-033
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:19:18 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:19:32

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.532	2.508	0.024	151	NC	
	23 n-Decane	3.768	3.750	0.018	717	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		85414	NC	
A	1 C9-C13	4.489	(2.508-6.469)		85414	NC	
A	57 C10-C12	4.708	(3.750-5.666)		30479	3.11	
	24 Dodecane	5.635	5.666	-0.031	12936	NC	
A	3 C9 - C17	5.850	(2.508-9.191)		546607	45.1	
A	47 C9 - C18	6.145	(2.508-9.782)		546607	50.8	
A	60 C10-C16	6.153	(3.750-8.556)		254468	23.1	
A	25 C9-C19	6.415	(2.508-10.322)		546607	44.8	
A	15 Kerosene	6.415	(2.508-10.322)		546607	50.7	
	26 C13	6.418	6.469	-0.051	43053	NC	
A	59 C12-C16	7.111	(5.666-8.556)		236925	24.2	
$	27 n-Decanoic Acid (Surr)		7.131			ND	
A	62 C10-C20	7.304	(3.750-10.858)		542934	55.4	
A	28 C9-C24	7.646	(2.508-12.785)		5768508	588.6	
A	29 C9-C25	7.864	(2.508-13.221)		6462804	659.4	
A	54 C10-C23	8.041	(3.750-12.332)		4682334	477.7	
A	4 C10-C24	8.267	(3.750-12.785)		5764835	588.2	
A	16 C10-C25	8.485	(3.750-13.221)		6459131	659.0	
	45 Hexadecane	8.596	8.556	0.040	288466	NC	
A	14 C10-C26	8.695	(3.750-13.641)		7038453	718.1	
A	67 C12-C22	8.763	(5.666-11.861)		525391	53.6	
A	5 Diesel	9.094	(3.750-14.438)		8002887	816.5	
A	32 C10-C28	9.094	(3.750-14.438)		8002887	816.5	
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		8002887	NC	
A	30 C13-C22	9.165	(6.469-11.861)		504246	51.4	
	44 Heptadecane		9.191			ND	
A	31 C12-C24	9.226	(5.666-12.785)		5747292	586.4	
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		14462736	NC	
A	52 Mineral oil	9.835	(2.508-17.162)		15321231	1333.8	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		15321231	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		7964199	812.6	
A 17 C10-C36	10.456	(3.750-17.162)		14459063	1475.3	
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		17409626	NC	
A 13 C9-C40	10.586	(2.508-18.664)		17409626	2175.5	
A 58 C16-C24	10.670	(8.556-12.785)		5510367	562.2	
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		17402117	2174.6	
$ 34 p-Terphenyl		11.859			ND	
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		17347534	2167.8	
36 Tricosane	12.370	12.332	0.038	483982	NC	
A 66 C13-C40	12.567	(6.469-18.664)		17277673	2159.1	
37 n-Tetracosane	12.778	12.785	-0.007	598519	NC	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		14695905	1936.3	
38 C25	13.255	13.221	0.034	236144	NC	
A 19 C16-C40	13.610	(8.556-18.664)		16784300	2097.5	
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		12524382	1451.5	
A 55 C23-C32	14.107	(12.332-15.882)		7861731	1653.3	
39 n-Octacosane	14.525	14.438	0.087	1472211	NC	
65 C29	14.909	14.816	0.093	822452	NC	
A 40 C24-C36	14.973	(12.785-17.162)		8787772	1442.5	
A 7 Motor Oil	14.973	(12.785-17.162)		8787772	1442.5	
A 50 C25-C36	15.191	(13.221-17.162)		7952286	1374.5	
A 10 C22-C40	15.262	(11.861-18.664)		12367785	1479.4	
A 41 C23-C40	15.498	(12.332-18.664)		11533232	1406.3	
A 8 C24-C40	15.724	(12.785-18.664)		10705167	1345.7	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		7327008	1317.0	
A 63 C29-C40	16.740	(14.816-18.664)		6420663	1282.4	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

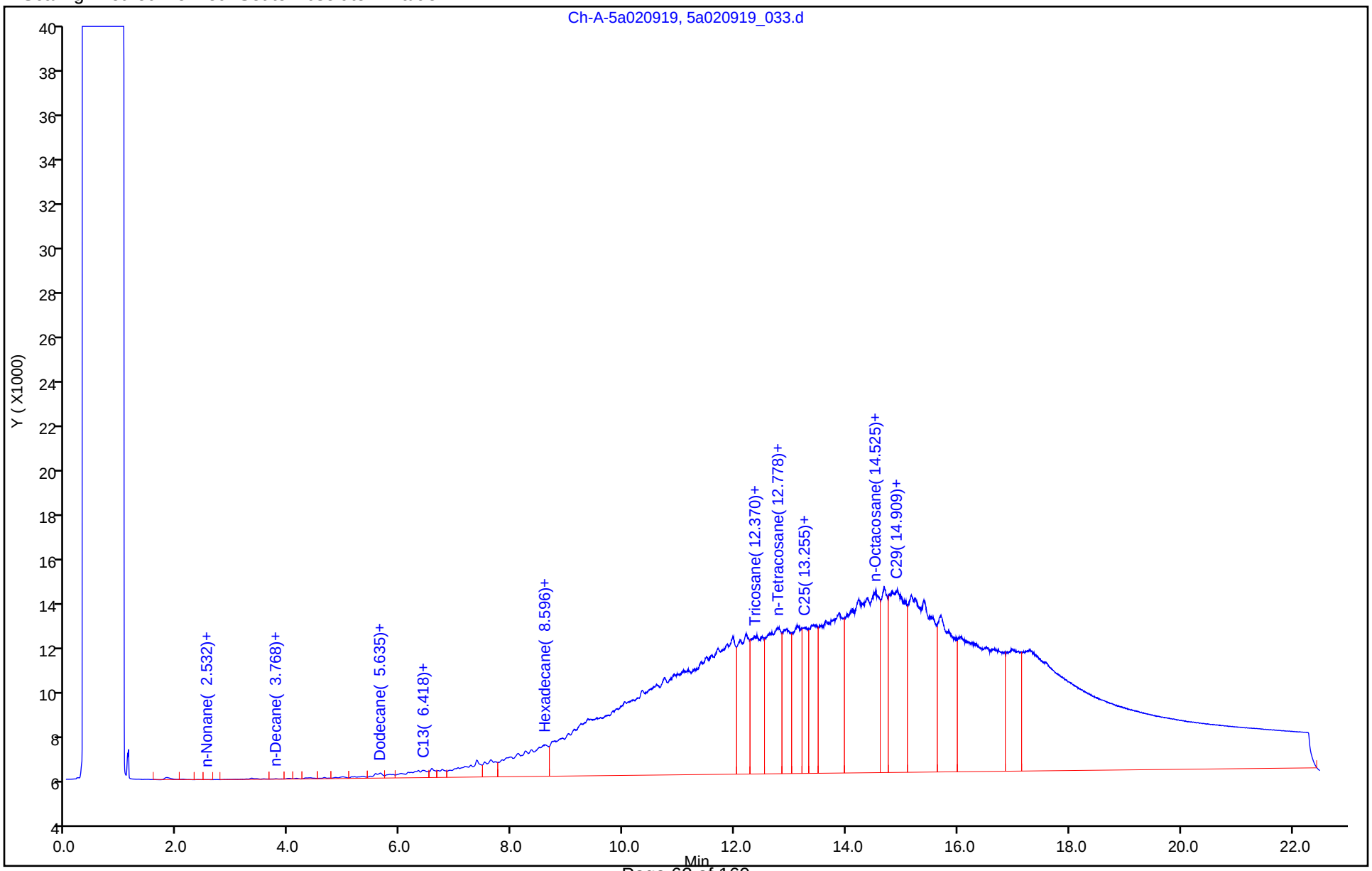
NC - Not Calibrated

Report Date: 11-Feb-2019 12:19:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_033.d				
Injection Date:	10-Feb-2019 02:11:26	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-9-D	Lab Sample ID:	720-91069-9	Worklist Smp#:	33
Client ID:	DG-AC11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

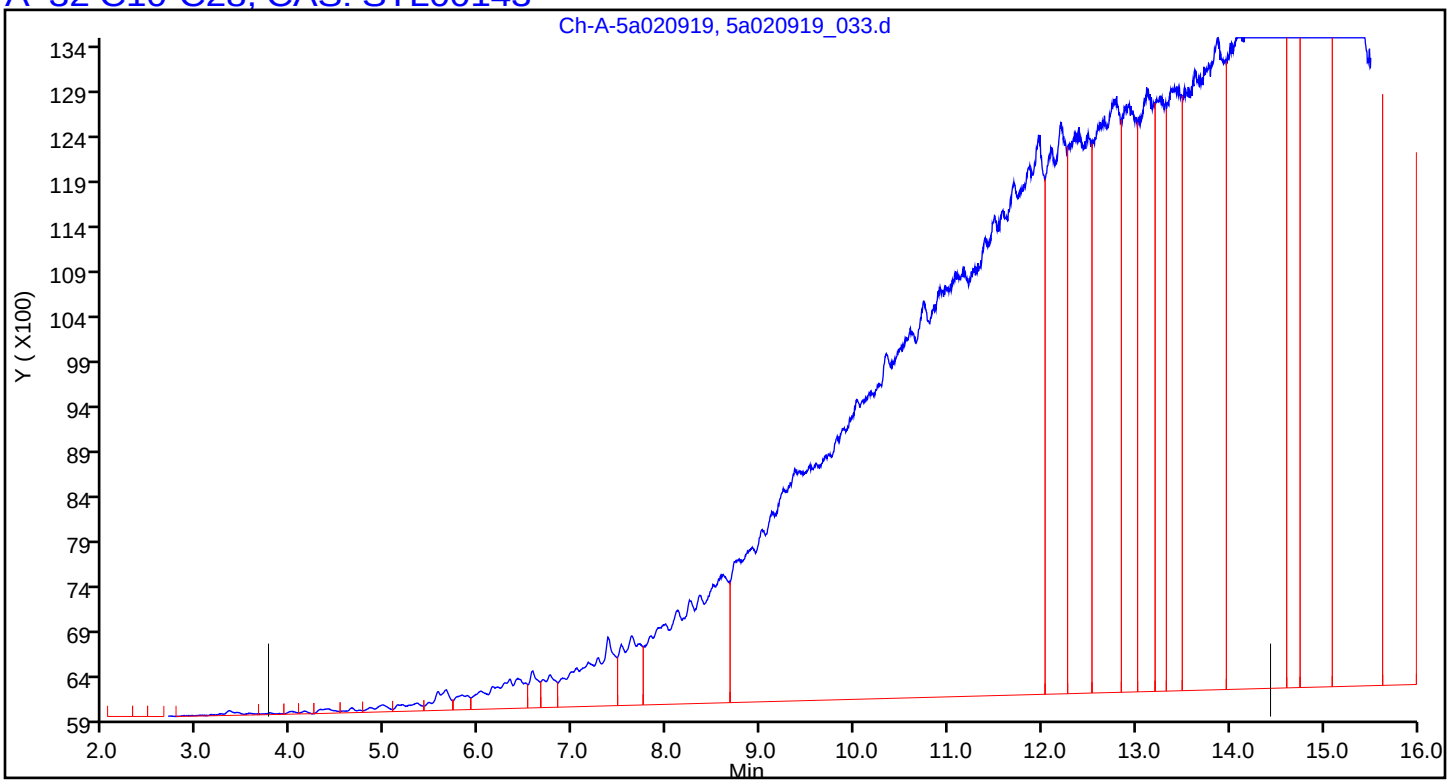


Report Date: 11-Feb-2019 12:19:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_033.d				
Injection Date:	10-Feb-2019 02:11:26	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-9-D	Lab Sample ID:	720-91069-9		
Client ID:	DG-AC11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

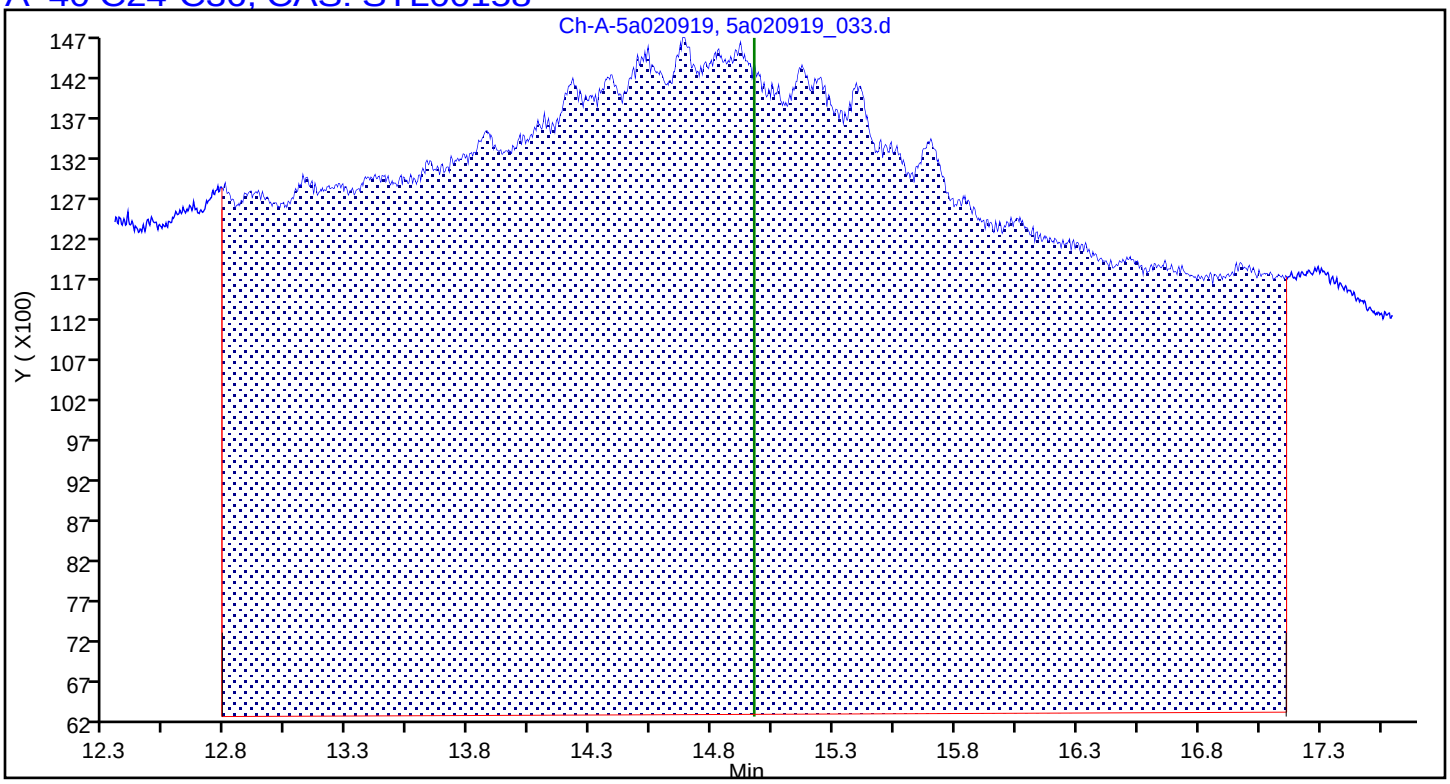


Report Date: 11-Feb-2019 12:19:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_033.d				
Injection Date:	10-Feb-2019 02:11:26	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-9-D	Lab Sample ID:	720-91069-9		
Client ID:	DG-AC11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_017.d
Lims ID: 720-91069-E-10-D
Client ID: DG-AC11S-8.5-9
Sample Type: Client
Inject. Date: 11-Feb-2019 16:05:22 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 007 Name: 720-0056534-017
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\DRO5A.m
Limit Group: DRO
Last Update: 12-Feb-2019 11:44:36 Calib Date: 11-Feb-2019 11:06:00
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_007.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 11:44:36

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.500			ND	
23 n-Decane	3.770	3.748	0.022	2493	NC	M
A 1 C9-C13	4.485	(2.500-6.471)		96186	7.69	M
A 21 Stoddard Solvent	4.485	(2.500-6.471)		96186	NC	M
A 57 C10-C12	4.708	(3.748-5.668)		14578	1.49	M
24 Dodecane		5.668			ND	
A 3 C9 - C17	5.848	(2.500-9.196)		705672	58.2	M
A 47 C9 - C18	6.144	(2.500-9.788)		1139518	105.9	M
A 60 C10-C16	6.153	(3.748-8.559)		601892	54.6	M
A 15 Kerosene	6.414	(2.500-10.329)		1139518	105.7	M
A 25 C9-C19	6.414	(2.500-10.329)		1139518	93.4	M
26 C13	6.437	6.471	-0.034	80901	NC	M
A 59 C12-C16	7.114	(5.668-8.559)		587314	59.9	M
$ 27 n-Decanoic Acid (Surr)		7.133			ND	
A 62 C10-C20	7.307	(3.748-10.866)		2103644	214.6	M
A 28 C9-C24	7.648	(2.500-12.795)		3979800	406.1	M
A 29 C9-C25	7.866	(2.500-13.232)		4480009	457.1	M
A 54 C10-C23	8.045	(3.748-12.342)		3276483	334.3	M
A 4 C10-C24	8.271	(3.748-12.795)		3979093	406.0	M
A 16 C10-C25	8.490	(3.748-13.232)		4479302	457.0	M
45 Hexadecane	8.587	8.559	0.028	103073	NC	M
A 14 C10-C26	8.700	(3.748-13.653)		4634064	472.8	M
A 67 C12-C22	8.769	(5.668-11.870)		2529143	258.0	M
A 12 Unknown Hydrocarbons	9.099	(3.748-14.451)		5826444	NC	M
A 32 C10-C28	9.099	(3.748-14.451)		5826444	594.5	M
A 5 Diesel	9.099	(3.748-14.451)		5826444	594.5	M
A 30 C13-C22	9.171	(6.471-11.870)		2529143	258.0	M
44 Heptadecane	9.217	9.196	0.021	311914	NC	M
A 31 C12-C24	9.232	(5.668-12.795)		3964515	404.5	M
49 n-Octadecane		9.788			ND	
A 9 Crude Oil Range Organics (	9.841	(2.500-17.183)		10196230	NC	
A 52 Mineral oil	9.841	(2.500-17.183)		10196230	887.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.841	(2.500-17.183)		8750554	NC	M
33 C19	10.347	10.329	0.018	655309	NC	M
A 64 C13-C28	10.461	(6.471-14.451)		5811866	593.0	M
A 17 C10-C36	10.465	(3.748-17.183)		8749847	892.7	M
A 13 C9-C40	10.601	(2.500-18.702)		12012692	1487.6	
A 68 Crude Oil Range Organics (	10.601	(2.500-18.702)		12012692	NC	
A 58 C16-C24	10.677	(8.559-12.795)		3377201	344.6	M
61 icosane		10.866			ND	
A 6 C10-C40	11.225	(3.748-18.702)		12009436	1487.4	
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.870			ND	
A 18 C12-C40	12.185	(5.668-18.702)		11968526	1482.5	
36 Tricosane	12.370	12.342	0.028	408872	NC	M
A 66 C13-C40	12.587	(6.471-18.702)		11886823	1472.3	
37 n-Tetracosane	12.813	12.795	0.018	226625	NC	M
A 2 C16-C36 ORO	12.871	(8.559-17.183)		9451344	1245.3	
38 C25	13.257	13.232	0.025	154762	NC	M
A 19 C16-C40	13.631	(8.559-18.702)		11267806	1394.4	
46 n-Hexacosane		13.653			ND	
A 20 C19-C36	13.756	(10.329-17.183)		7434373	861.6	
A 55 C23-C32	14.120	(12.342-15.899)		4685894	985.4	
39 n-Octacosane	14.533	14.451	0.082	432580	NC	M
65 C29	14.833	14.831	0.002	701312	NC	M
A 7 Motor Oil	14.989	(12.795-17.183)		5311529	871.9	
A 40 C24-C36	14.989	(12.795-17.183)		5311529	871.9	
A 50 C25-C36	15.207	(13.232-17.183)		4877377	843.0	
A 10 C22-C40	15.286	(11.870-18.702)		7822189	935.7	
A 41 C23-C40	15.522	(12.342-18.702)		7364848	898.0	
A 8 C24-C40	15.749	(12.795-18.702)		6930543	871.2	
56 Dotriacontane		15.899			ND	
A 51 C28-C40	16.577	(14.451-18.702)		5107060	857.3	
A 63 C29-C40	16.767	(14.831-18.702)		4582233	852.0	
42 n-Hexatriacontane		17.183			ND	
43 C40		18.702			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

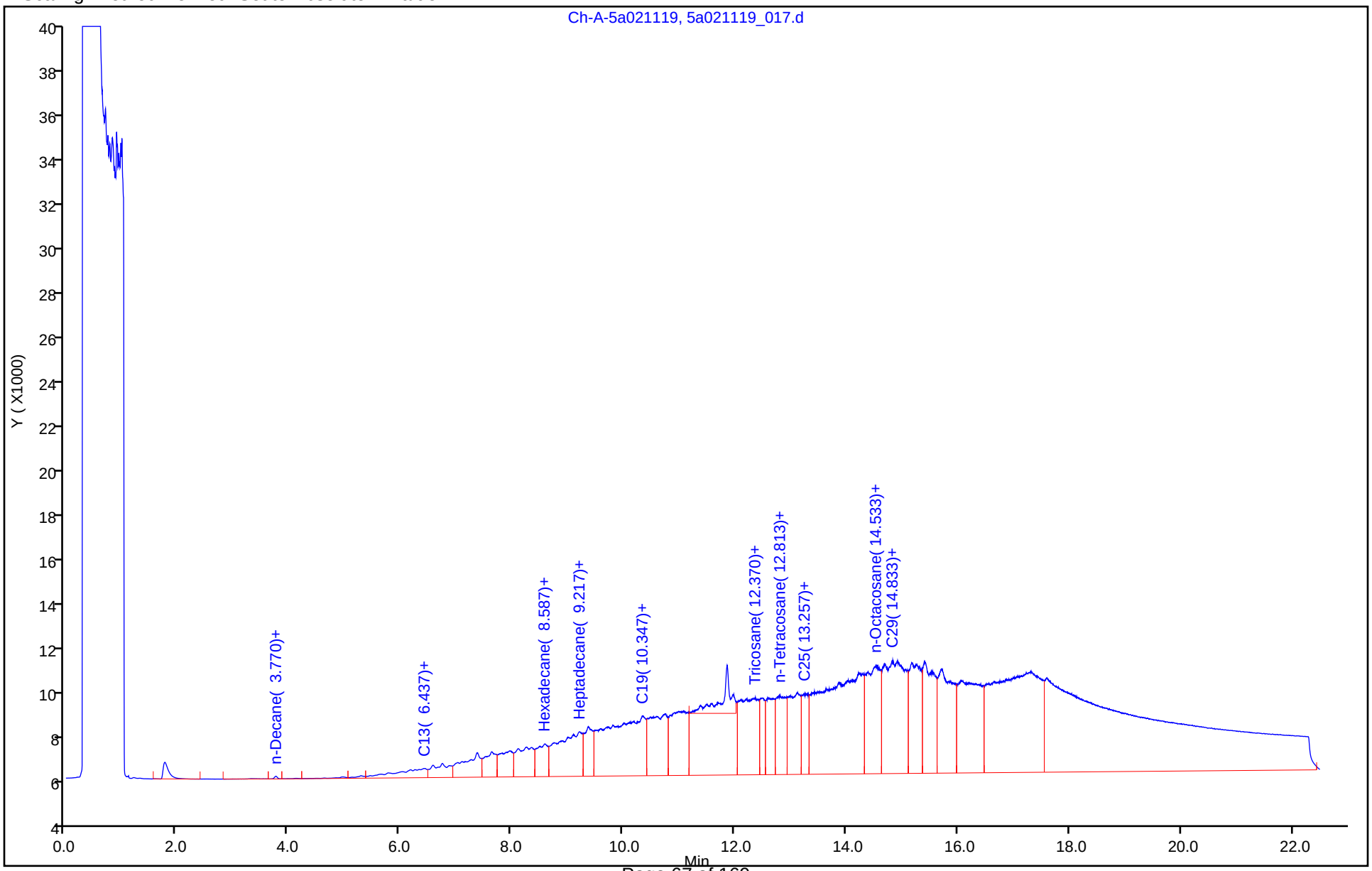
Report Date: 12-Feb-2019 11:44:37 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_017.d

Injection Date:	11-Feb-2019 16:05:22	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-10-D	Lab Sample ID:	720-91069-10	Worklist Smp#:	17
Client ID:	DG-AC11S-8.5-9				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

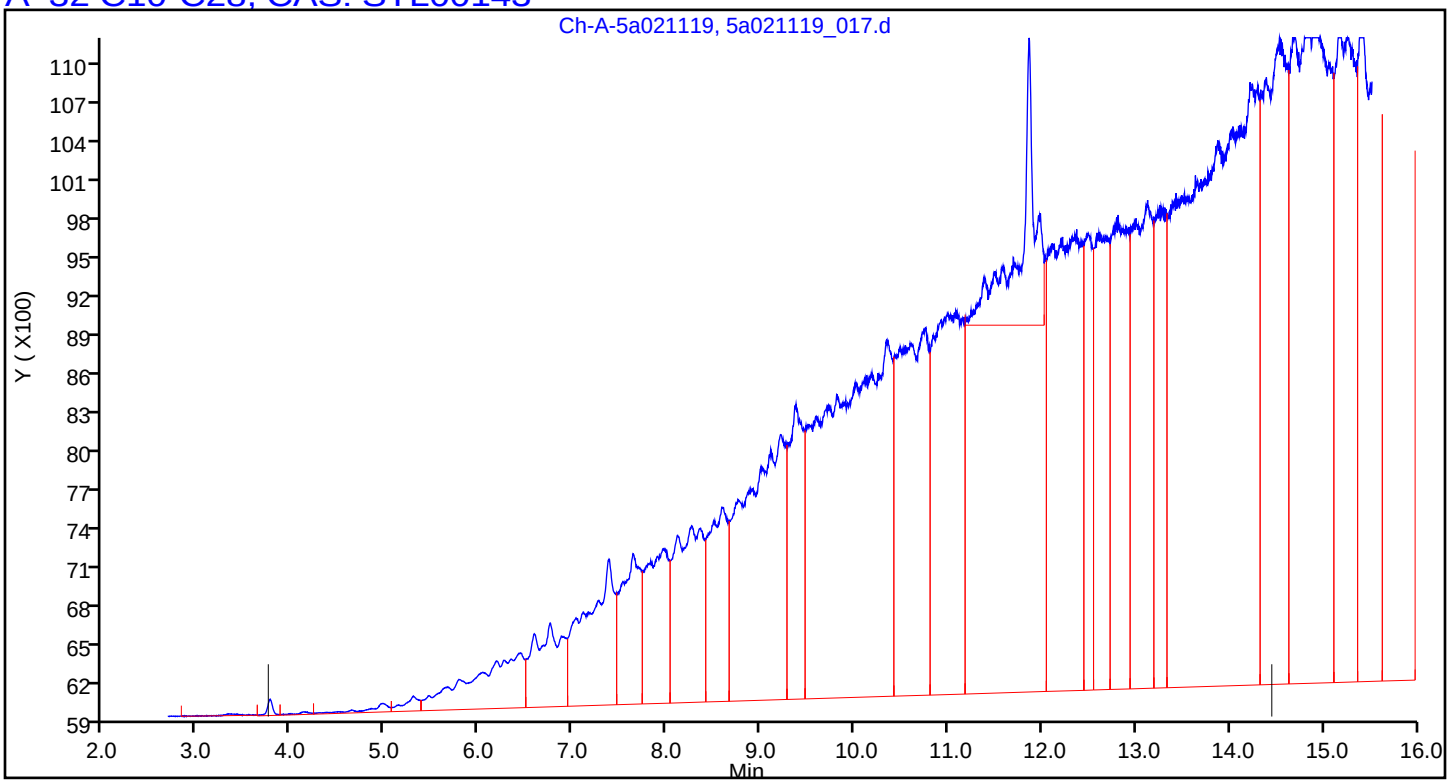


Report Date: 12-Feb-2019 11:44:38 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_017.d				
Injection Date:	11-Feb-2019 16:05:22	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-10-D	Lab Sample ID:	720-91069-10		
Client ID:	DG-AC11S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

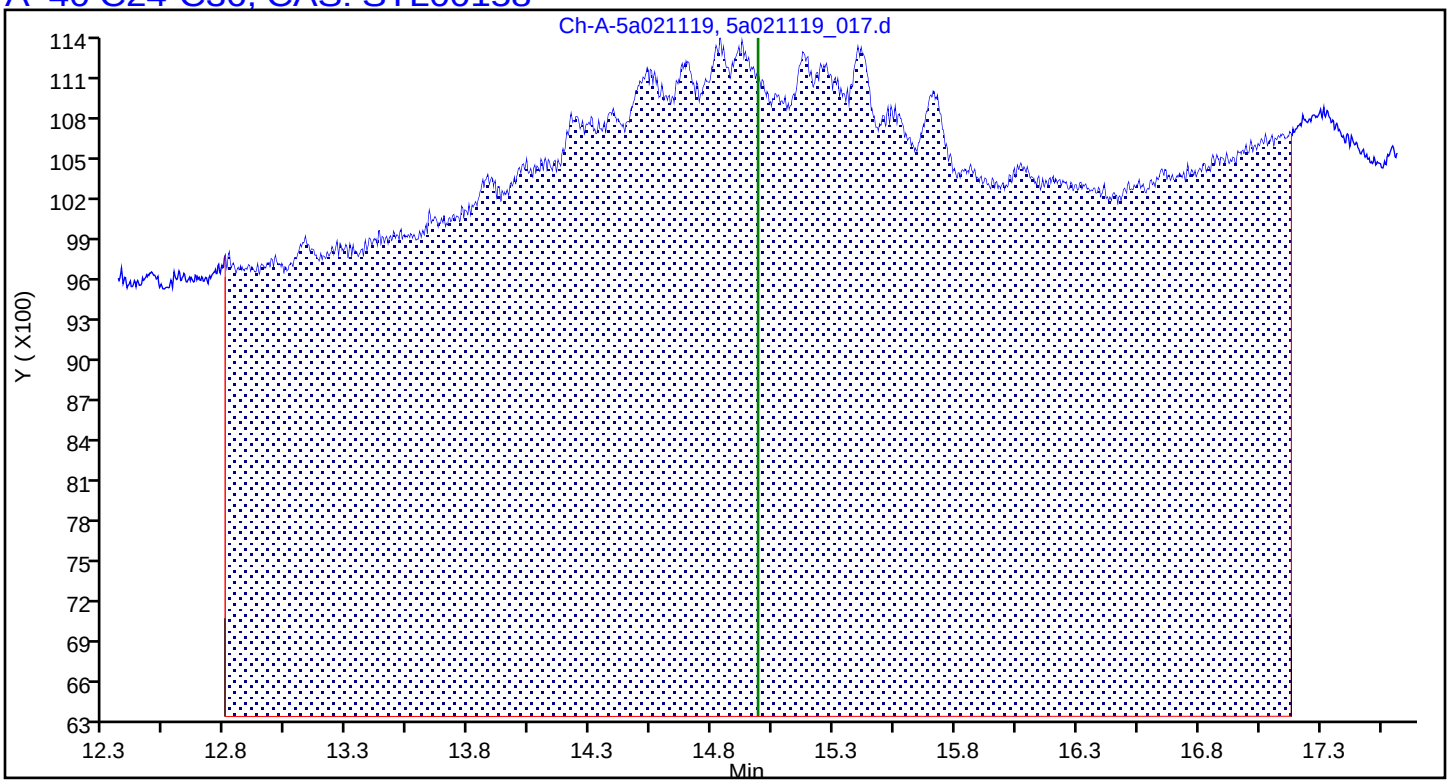


Report Date: 12-Feb-2019 11:44:39 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_017.d				
Injection Date:	11-Feb-2019 16:05:22	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-10-D	Lab Sample ID:	720-91069-10		
Client ID:	DG-AC11S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

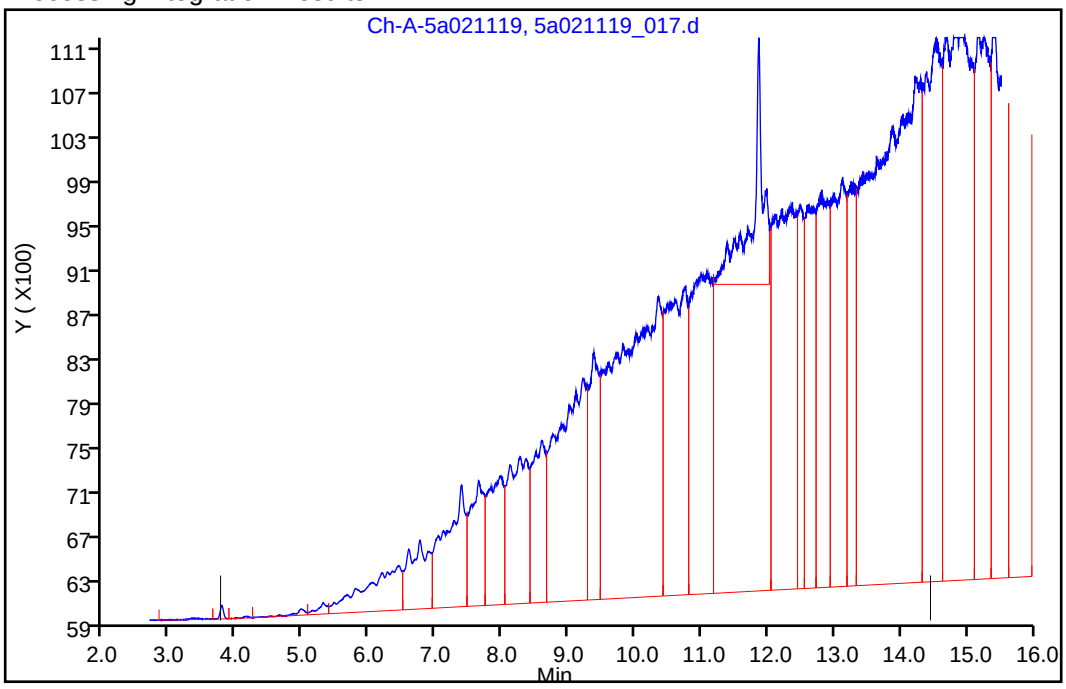
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_017.d				
Injection Date:	11-Feb-2019 16:05:22	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-10-D	Lab Sample ID:	720-91069-10		
Client ID:	DG-AC11S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.099, CAS: STL00143

Signal: 1

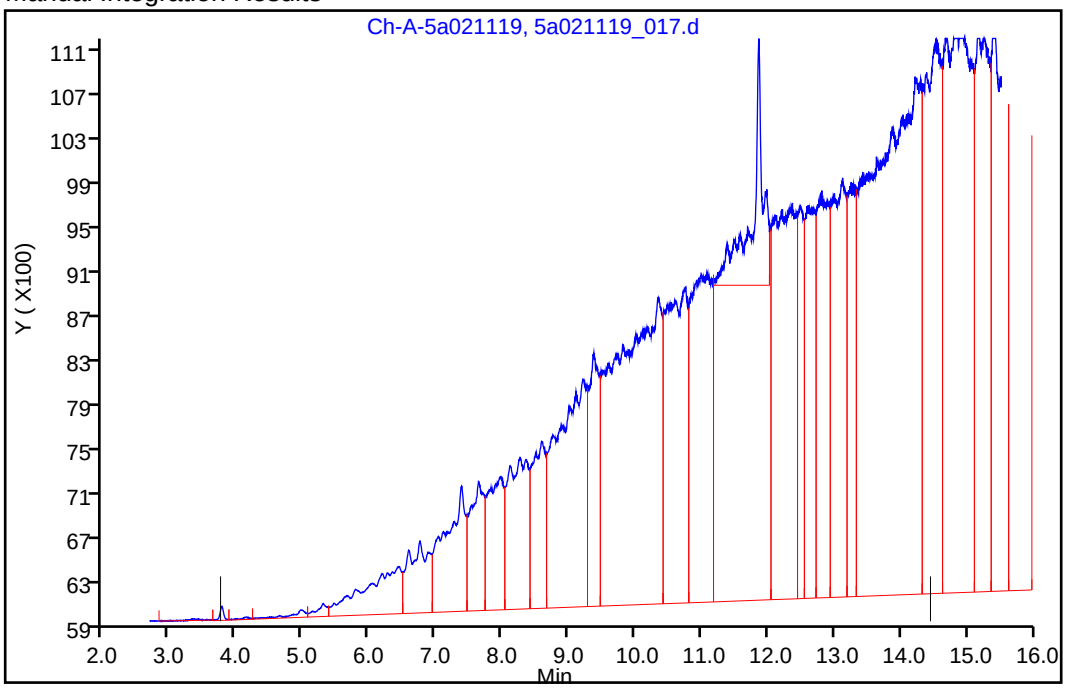
Processing Integration Results

RT: 9.10
Response: 5505770
Amount: 561.7552



Manual Integration Results

RT: 9.10
Response: 5826444
Amount: 594.4736



Reviewer: luj, 12-Feb-2019 11:44:23

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

User Disabled Compound Report

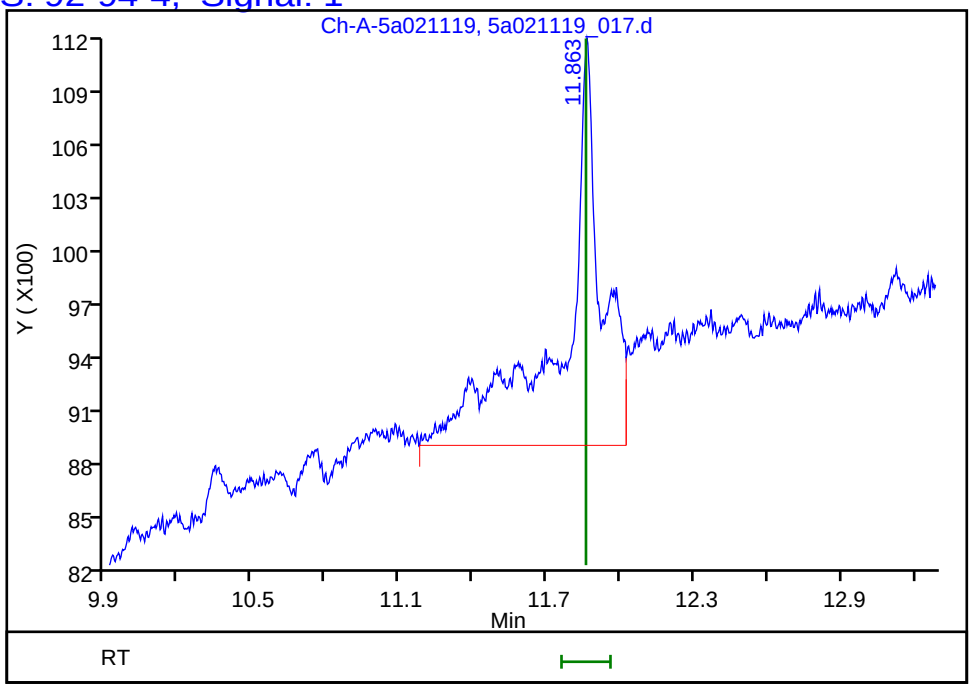
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190211-56534.b\5a021119_017.d

Injection Date:	11-Feb-2019 16:05:22	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-10-D	Lab Sample ID:	720-91069-10		
Client ID:	DG-AC11S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 121635
Amount: 10.200074



Reviewer: luj, 12-Feb-2019 11:44:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_034.d
Lims ID: 720-91069-E-11-D
Client ID: DG-AA11S-0.5-1
Sample Type: Client
Inject. Date: 10-Feb-2019 02:40:38 ALS Bottle#: 0 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 013 Name: 720-0056518-034
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:19:54 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:19:54

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.492	2.508	-0.016	1874	NC	
	23 n-Decane	3.754	3.750	0.004	2379	NC	
A	21 Stoddard Solvent	4.489	(2.508-6.469)		92142	NC	
A	1 C9-C13	4.489	(2.508-6.469)		92142	NC	
A	57 C10-C12	4.708	(3.750-5.666)		28390	2.90	
	24 Dodecane	5.636	5.666	-0.030	16580	NC	
A	3 C9 - C17	5.850	(2.508-9.191)		371225	30.6	
A	47 C9 - C18	6.145	(2.508-9.782)		371225	34.5	
A	60 C10-C16	6.153	(3.750-8.556)		361275	32.8	
A	25 C9-C19	6.415	(2.508-10.322)		371225	30.4	
A	15 Kerosene	6.415	(2.508-10.322)		371225	34.4	
	26 C13	6.421	6.469	-0.048	15248	NC	
A	59 C12-C16	7.111	(5.666-8.556)		349465	35.7	
$	27 n-Decanoic Acid (Surr)		7.131			ND	U
A	62 C10-C20	7.304	(3.750-10.858)		7262980	741.0	
A	28 C9-C24	7.646	(2.508-12.785)		11980109	1222.3	
A	29 C9-C25	7.864	(2.508-13.221)		21233185	2166.4	
A	54 C10-C23	8.041	(3.750-12.332)		11970159	1221.3	
A	4 C10-C24	8.267	(3.750-12.785)		11970159	1221.3	
A	16 C10-C25	8.485	(3.750-13.221)		21223235	2165.4	
	45 Hexadecane		8.556			ND	
A	14 C10-C26	8.695	(3.750-13.641)		21223235	2165.4	
A	67 C12-C22	8.763	(5.666-11.861)		11958349	1220.1	
A	5 Diesel	9.094	(3.750-14.438)		23179289	2365.0	
A	32 C10-C28	9.094	(3.750-14.438)		23179289	2365.0	
A	12 Unknown Hydrocarbons	9.094	(3.750-14.438)		23179289	NC	
A	30 C13-C22	9.165	(6.469-11.861)		11903215	1214.5	
	44 Heptadecane		9.191			ND	
A	31 C12-C24	9.226	(5.666-12.785)		11958349	1220.1	
	49 n-Octadecane		9.782			ND	
A	11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		30666736	NC	
A	52 Mineral oil	9.835	(2.508-17.162)		31519329	2744.0	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		31519329	NC	
33 C19		10.322			ND	
A 64 C13-C28	10.454	(6.469-14.438)		23112345	2358.2	
A 17 C10-C36	10.456	(3.750-17.162)		30656786	3127.9	E
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		34764235	NC	
A 13 C9-C40	10.586	(2.508-18.664)		34764235	4387.4	E
A 58 C16-C24	10.670	(8.556-12.785)		11608884	1184.5	
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		34747757	4385.0	E
$ 34 p-Terphenyl	11.857	11.859	-0.002	238859	20.0	
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		34677917	4375.8	E
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		34592233	4365.1	E
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		30407939	4006.6	E
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		33652845	4247.7	E
46 n-Hexacosane		13.641			ND	
A 20 C19-C36	13.742	(10.322-17.162)		24919051	2887.9	
A 55 C23-C32	14.107	(12.332-15.882)		12555750	2640.4	
39 n-Octacosane	14.417	14.438	-0.021	1030737	NC	
65 C29	14.833	14.816	0.017	1404337	NC	
A 40 C24-C36	14.973	(12.785-17.162)		13656762	2241.7	
A 7 Motor Oil	14.973	(12.785-17.162)		13656762	2241.7	
A 50 C25-C36	15.191	(13.221-17.162)		12014586	2076.7	
A 10 C22-C40	15.262	(11.861-18.664)		20617456	2466.2	
A 41 C23-C40	15.498	(12.332-18.664)		18552119	2262.1	
A 8 C24-C40	15.724	(12.785-18.664)		16665418	2094.9	
56 Dotriacontane	15.936	15.882	0.054	611754	NC	
A 51 C28-C40	16.551	(14.438-18.664)		11087792	2323.6	
A 63 C29-C40	16.740	(14.816-18.664)		9869699	2384.3	
42 n-Hexatriacontane	17.212	17.162	0.050	6316800	NC	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

U - Marked Undetected

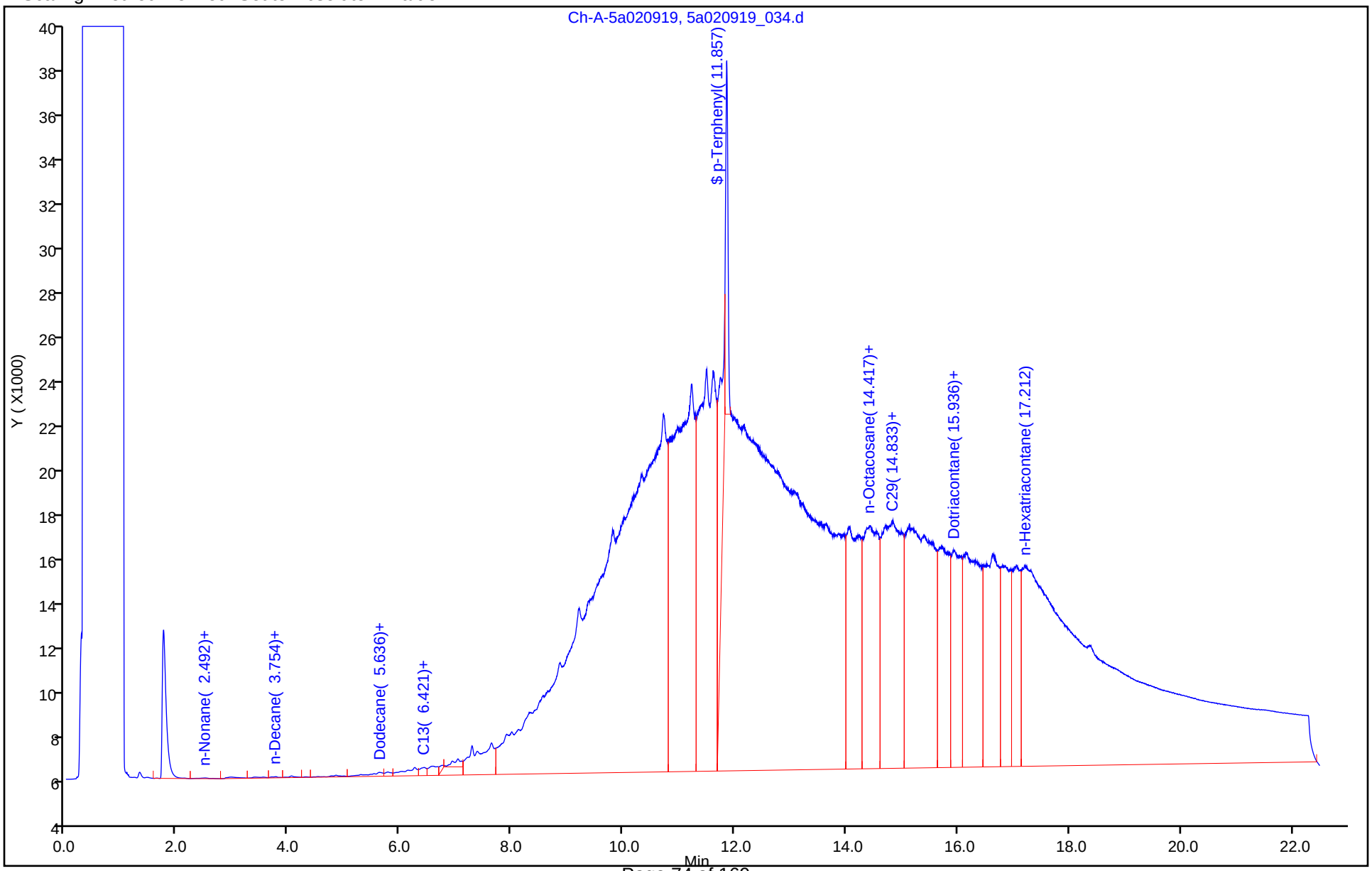
Report Date: 11-Feb-2019 12:19:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_034.d

Injection Date:	10-Feb-2019 02:40:38	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-11-D	Lab Sample ID:	720-91069-11	Worklist Smp#:	34
Client ID:	DG-AA11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_034.d				
Lims ID:	720-91069-E-11-D				
Client ID:	DG-AA11S-0.5-1				
Sample Type:	Client				
Inject. Date:	10-Feb-2019 02:40:38	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 013 Name: 720-0056518-034				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	11-Feb-2019 12:19:54	Calib Date:	09-Feb-2019 11:29:34		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0312				

First Level Reviewer: hayashid Date: 11-Feb-2019 12:19:54

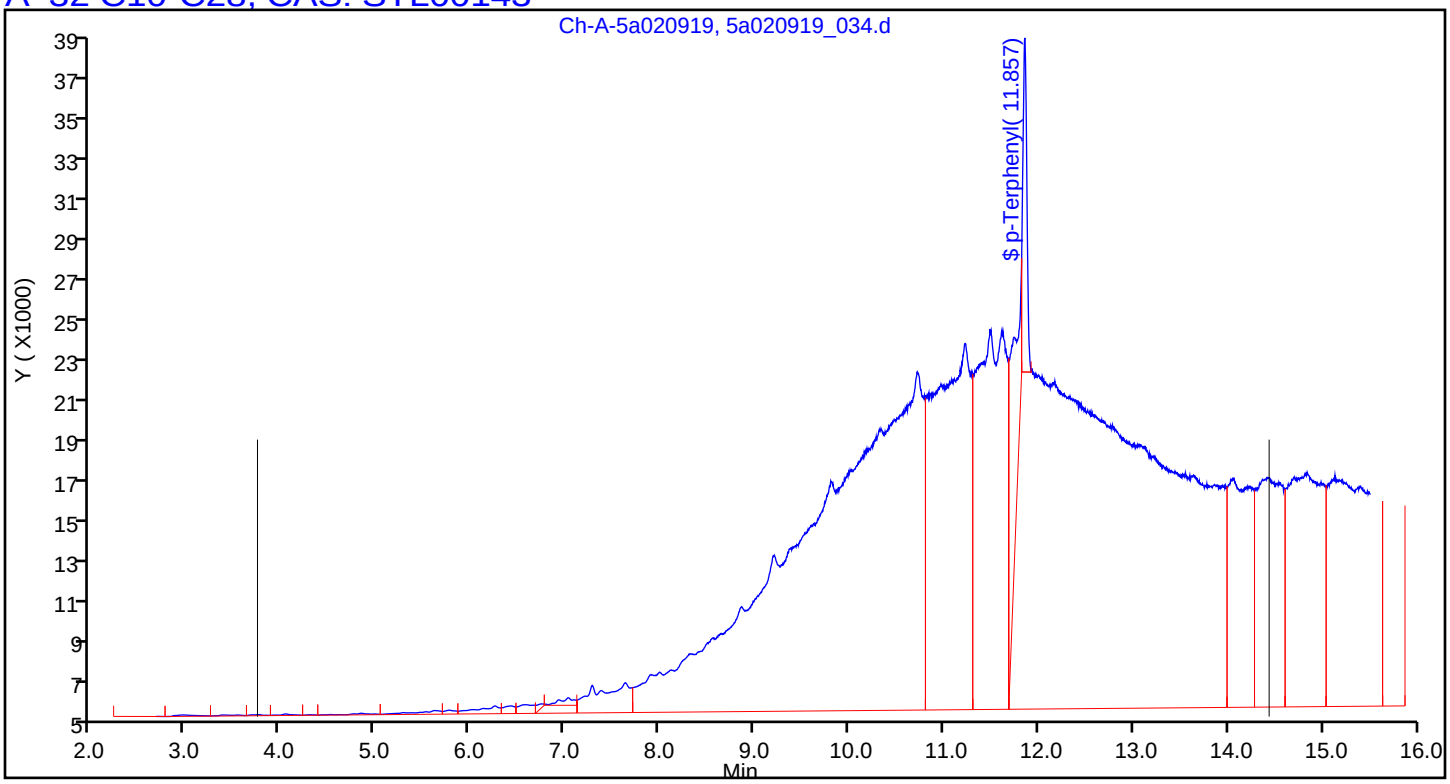
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	20.0	80.12

Report Date: 11-Feb-2019 12:19:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_034.d				
Injection Date:	10-Feb-2019 02:40:38	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-11-D	Lab Sample ID:	720-91069-11		
Client ID:	DG-AA11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

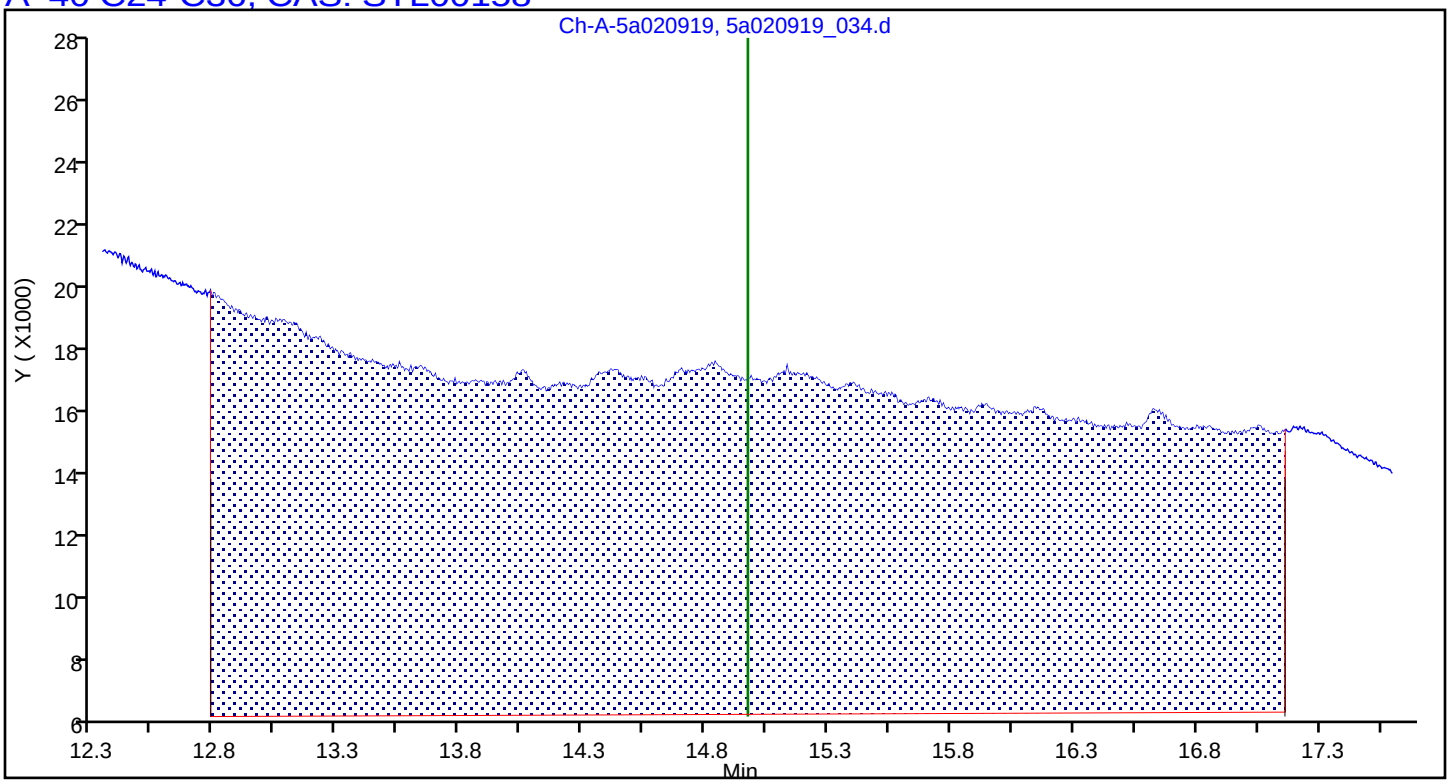


Report Date: 11-Feb-2019 12:19:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_034.d				
Injection Date:	10-Feb-2019 02:40:38	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-11-D	Lab Sample ID:	720-91069-11		
Client ID:	DG-AA11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_035.d
Lims ID: 720-91069-E-12-D
Client ID: DG-AA11S-3.5-4
Sample Type: Client
Inject. Date: 10-Feb-2019 03:09:51 ALS Bottle#: 0 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 014 Name: 720-0056518-035
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\DRO5A.m
Limit Group: DRO
Last Update: 11-Feb-2019 12:20:41 Calib Date: 09-Feb-2019 11:29:34
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0312

First Level Reviewer: hayashid Date: 11-Feb-2019 12:20:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.520	2.508	0.012	543	NC	
23 n-Decane	3.779	3.750	0.029	12008	NC	
A 21 Stoddard Solvent	4.489	(2.508-6.469)		2098702	NC	
A 1 C9-C13	4.489	(2.508-6.469)		2098702	NC	
A 57 C10-C12	4.708	(3.750-5.666)		805552	82.2	
24 Dodecane	5.633	5.666	-0.033	504544	NC	
A 3 C9 - C17	5.850	(2.508-9.191)		9965058	822.1	
A 47 C9 - C18	6.145	(2.508-9.782)		12422119	1154.0	
A 60 C10-C16	6.153	(3.750-8.556)		7509213	681.3	
A 25 C9-C19	6.415	(2.508-10.322)		15858158	1299.2	
A 15 Kerosene	6.415	(2.508-10.322)		15858158	1470.5	
26 C13	6.422	6.469	-0.047	268989	NC	
A 59 C12-C16	7.111	(5.666-8.556)		7208205	735.5	
$ 27 n-Decanoic Acid (Surr)		7.131			ND	U
A 62 C10-C20	7.304	(3.750-10.858)		18116588	1848.4	
A 28 C9-C24	7.646	(2.508-12.785)		19134321	1952.3	
A 29 C9-C25	7.864	(2.508-13.221)		19134321	1952.3	
A 54 C10-C23	8.041	(3.750-12.332)		19104988	1949.3	
A 4 C10-C24	8.267	(3.750-12.785)		19104988	1949.3	
A 16 C10-C25	8.485	(3.750-13.221)		19104988	1949.3	
45 Hexadecane	8.573	8.556	0.017	939731	NC	
A 14 C10-C26	8.695	(3.750-13.641)		20709102	2113.0	
A 67 C12-C22	8.763	(5.666-11.861)		18803980	1918.6	
A 5 Diesel	9.094	(3.750-14.438)		20996745	2142.3	
A 32 C10-C28	9.094	(3.750-14.438)		20996745	2142.3	
A 12 Unknown Hydrocarbons	9.094	(3.750-14.438)		20996745	NC	
A 30 C13-C22	9.165	(6.469-11.861)		17304608	1765.6	
44 Heptadecane	9.213	9.191	0.022	2457061	NC	
A 31 C12-C24	9.226	(5.666-12.785)		18803980	1918.6	
49 n-Octadecane	9.817	9.782	0.035	1109847	NC	
A 11 Bunker Range Organics (C9-	9.835	(2.508-17.162)		21859558	NC	
A 52 Mineral oil	9.835	(2.508-17.162)		22831362	1987.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 9 Crude Oil Range Organics (	9.835	(2.508-17.162)		22831362	NC	
33 C19	10.300	10.322	-0.022	1286238	NC	
A 64 C13-C28	10.454	(6.469-14.438)		19196365	1958.6	
A 17 C10-C36	10.456	(3.750-17.162)		21830225	2227.3	
A 68 Crude Oil Range Organics (	10.586	(2.508-18.664)		24235821	NC	
A 13 C9-C40	10.586	(2.508-18.664)		24235821	3045.5	E
A 58 C16-C24	10.670	(8.556-12.785)		11595775	1183.1	
61 icosane		10.858			ND	
A 6 C10-C40	11.207	(3.750-18.664)		24193366	3040.0	E
$ 34 p-Terphenyl		11.859			ND	U
35 n-Docosane		11.861			ND	
A 18 C12-C40	12.165	(5.666-18.664)		23389134	2937.6	
36 Tricosane		12.332			ND	
A 66 C13-C40	12.567	(6.469-18.664)		22124188	2776.6	
37 n-Tetracosane		12.785			ND	
A 2 C16-C36 ORO	12.859	(8.556-17.162)		14644459	1929.6	
38 C25		13.221			ND	
A 19 C16-C40	13.610	(8.556-18.664)		16048918	2003.8	
46 n-Hexacosane	13.639	13.641	-0.002	91959	NC	
A 20 C19-C36	13.742	(10.322-17.162)		5140358	595.7	
A 55 C23-C32	14.107	(12.332-15.882)		2461177	517.6	
39 n-Octacosane	14.528	14.438	0.090	128681	NC	
65 C29	14.907	14.816	0.091	142441	NC	
A 40 C24-C36	14.973	(12.785-17.162)		2533946	415.9	M
A 7 Motor Oil	14.973	(12.785-17.162)		1488521	244.3	
A 50 C25-C36	15.191	(13.221-17.162)		1327978	229.5	
A 10 C22-C40	15.262	(11.861-18.664)		3027319	362.1	
A 41 C23-C40	15.498	(12.332-18.664)		2591387	316.0	
A 8 C24-C40	15.724	(12.785-18.664)		2343755	294.6	
56 Dotriacontane		15.882			ND	
A 51 C28-C40	16.551	(14.438-18.664)		1876449	280.6	
A 63 C29-C40	16.740	(14.816-18.664)		1768982	290.4	
42 n-Hexatriacontane		17.162			ND	
43 C40		18.664			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

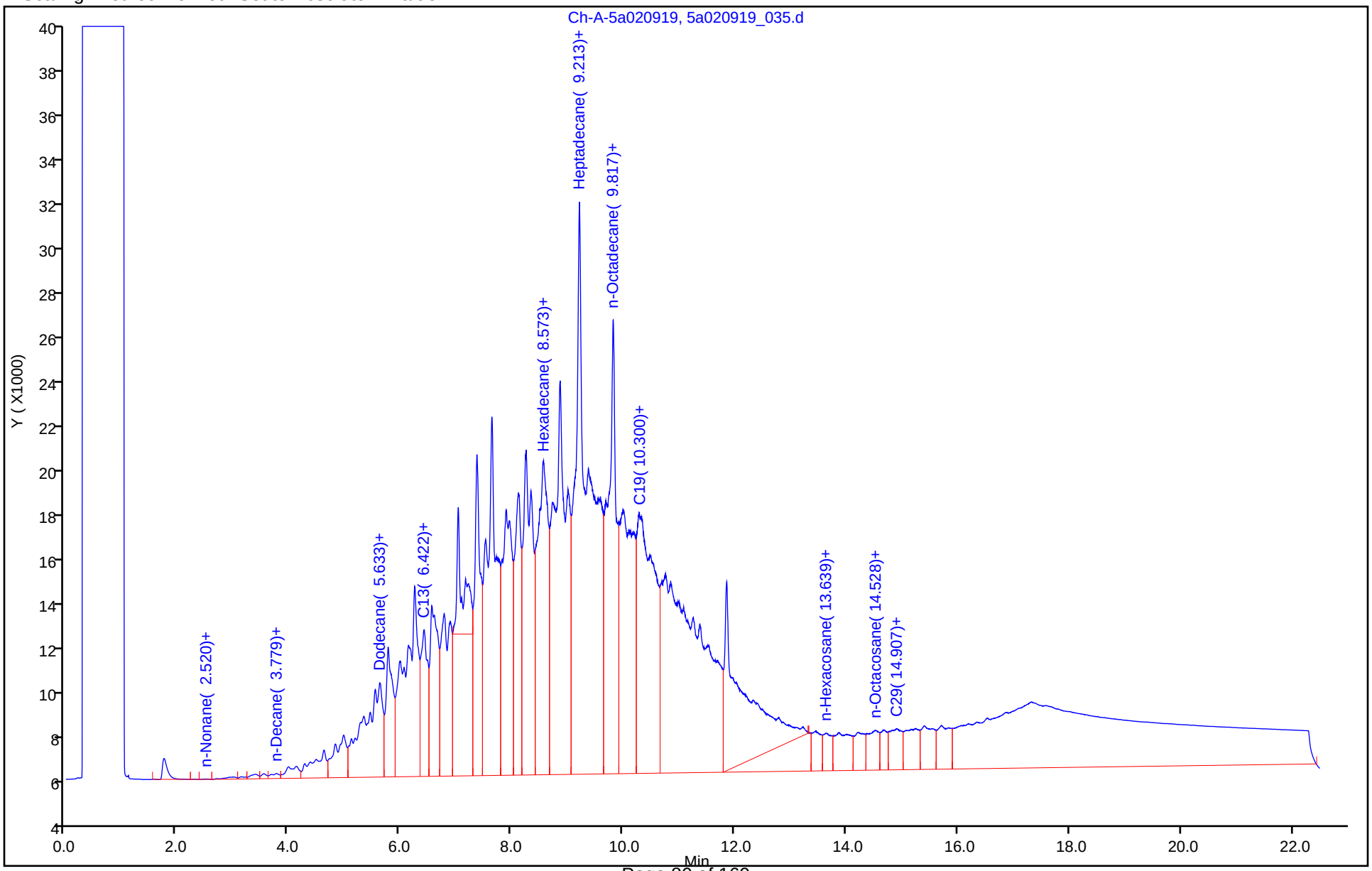
Report Date: 11-Feb-2019 12:20:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_035.d

Injection Date:	10-Feb-2019 03:09:51	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-12-D	Lab Sample ID:	720-91069-12	Worklist Smp#:	35
Client ID:	DG-AA11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

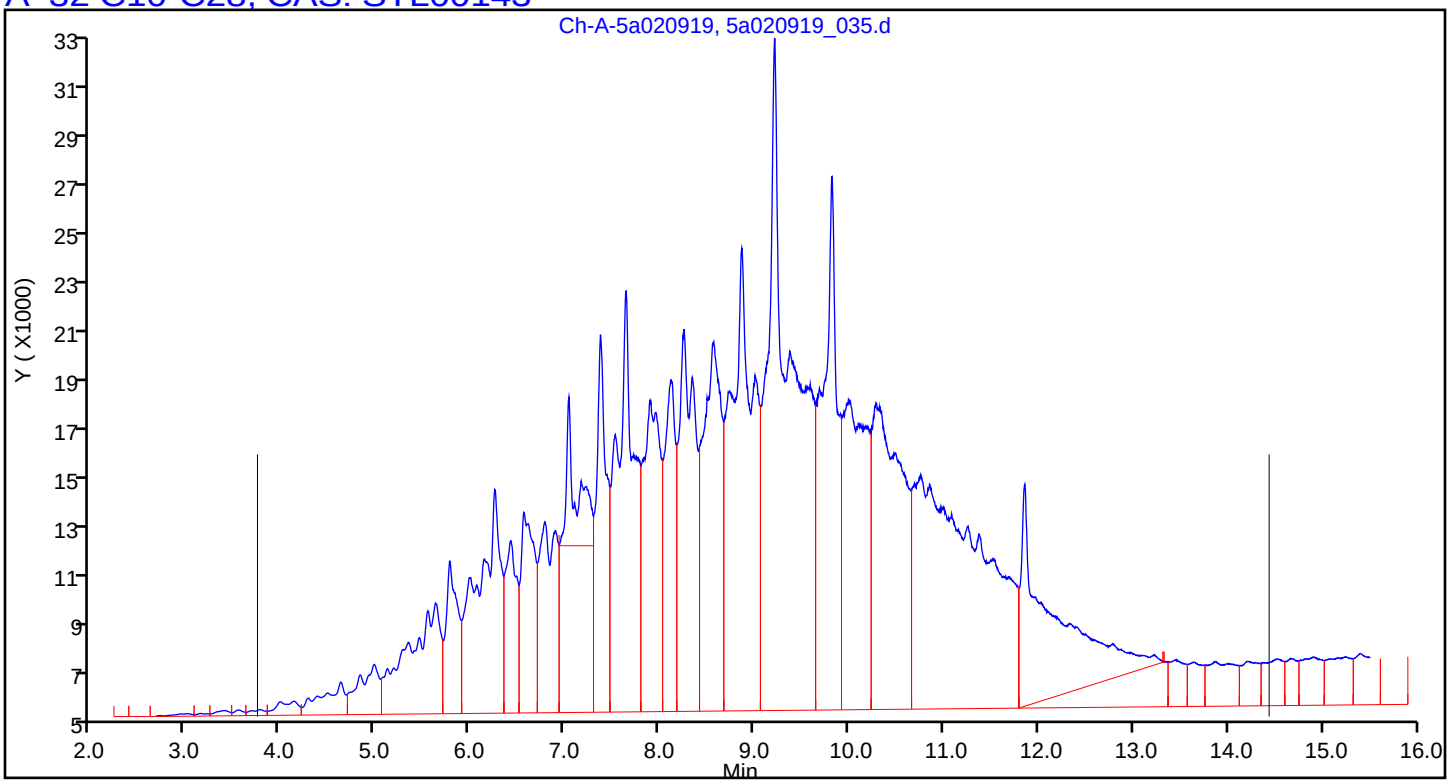


Report Date: 11-Feb-2019 12:20:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_035.d				
Injection Date:	10-Feb-2019 03:09:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-12-D	Lab Sample ID:	720-91069-12		
Client ID:	DG-AA11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

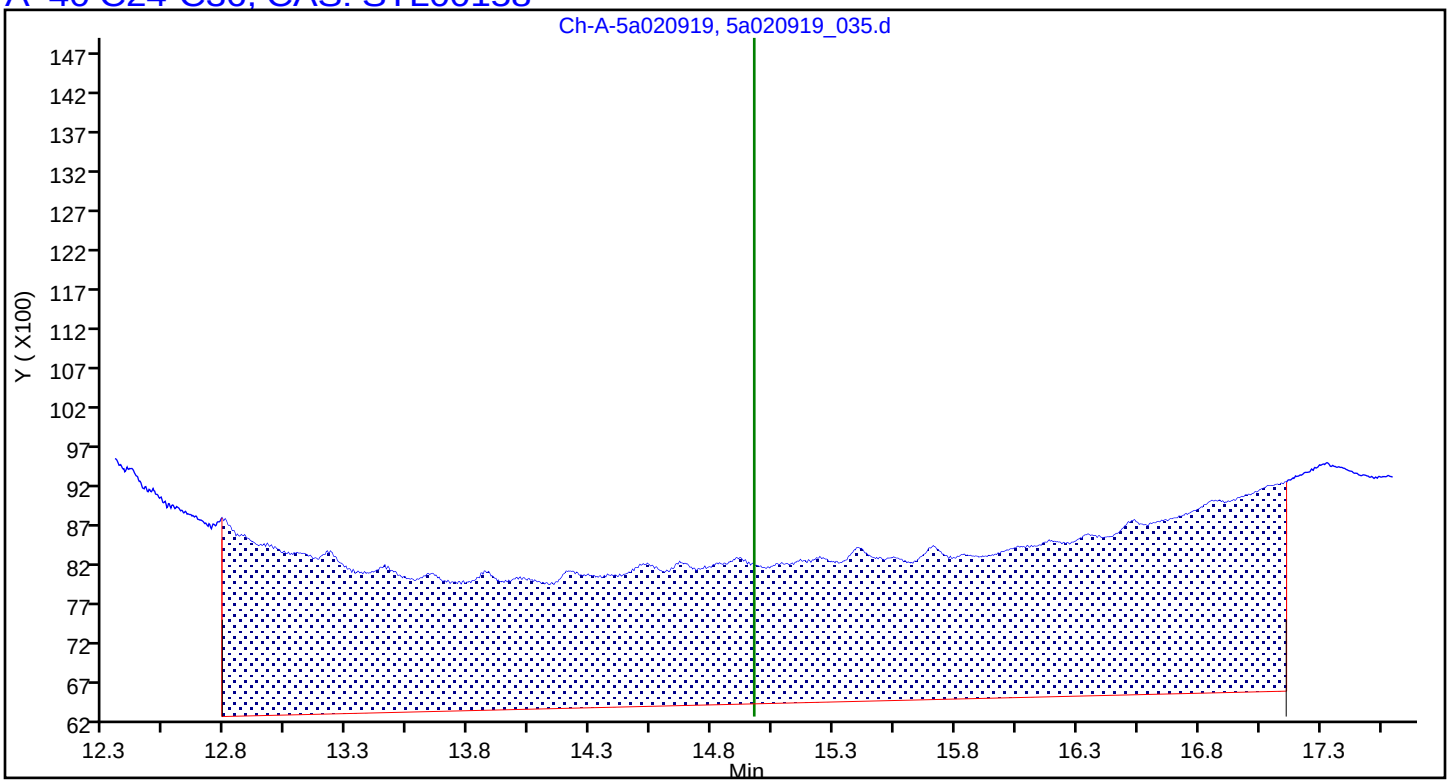


Report Date: 11-Feb-2019 12:20:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_035.d				
Injection Date:	10-Feb-2019 03:09:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-12-D	Lab Sample ID:	720-91069-12		
Client ID:	DG-AA11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

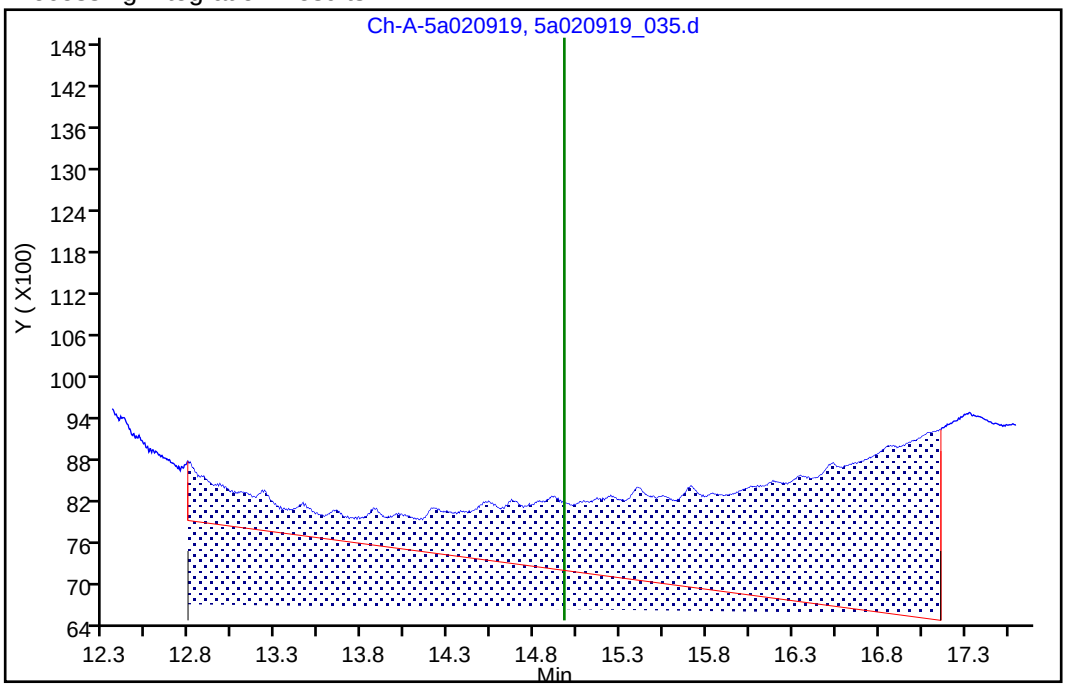
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Injection Date:	10-Feb-2019 03:09:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-12-D	Lab Sample ID:	720-91069-12		
Client ID:	DG-AA11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.973, CAS: STL00158

Signal: 1

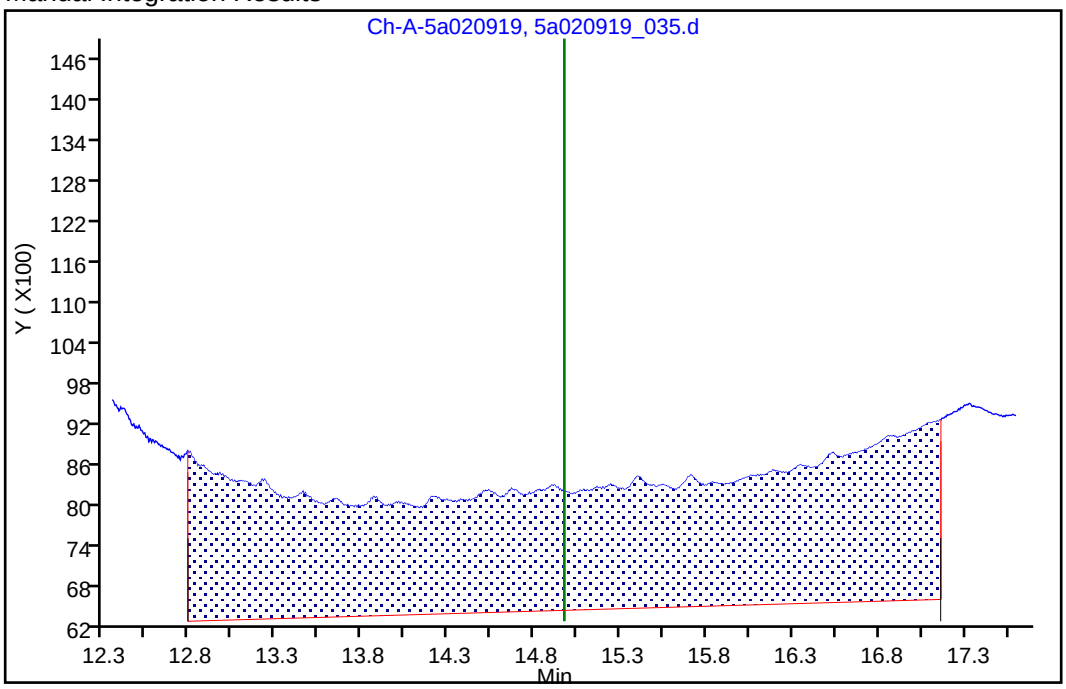
Processing Integration Results

RT: 14.97
Response: 1488417
Amount: 244.3186



Manual Integration Results

RT: 14.97
Response: 2533946
Amount: 415.9386



Reviewer: hayashid, 11-Feb-2019 12:20:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

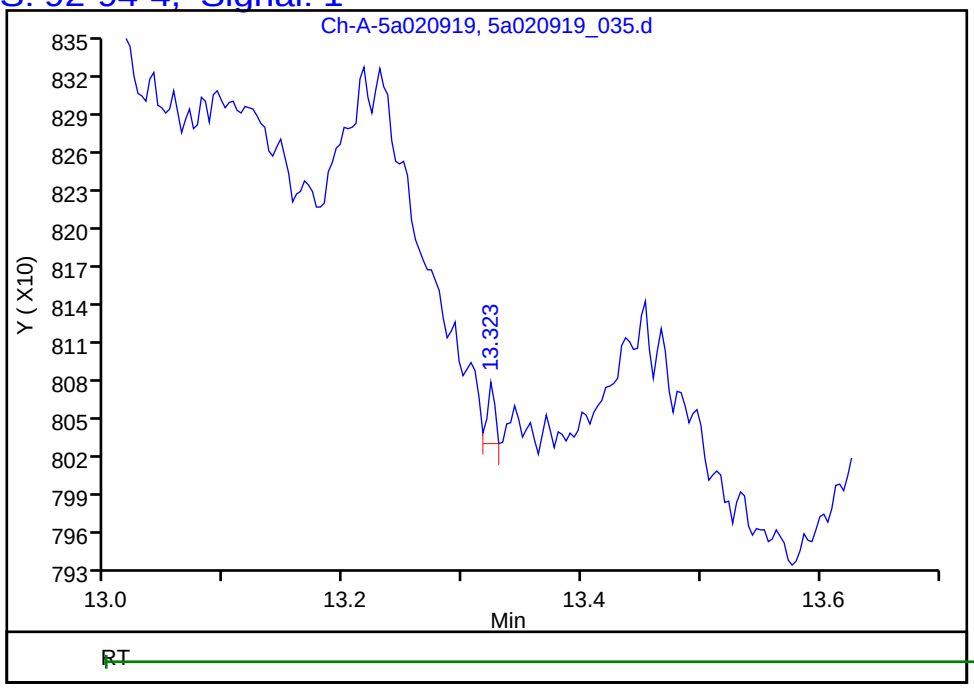
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190209-56518.b\5a020919_035.d

Injection Date:	10-Feb-2019 03:09:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-12-D	Lab Sample ID:	720-91069-12		
Client ID:	DG-AA11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 13.32
Response: 104
Amount: 0.008721



Reviewer: hayashid, 11-Feb-2019 12:20:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_007.d
Lims ID: 720-91069-E-13-J
Client ID: DG-W11S-0.5-1
Sample Type: Client
Inject. Date: 12-Feb-2019 12:07:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 136 Name: 720-0056555-007
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m
Limit Group: DRO
Last Update: 12-Feb-2019 13:45:16 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 13:45:16

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.681	2.632	0.049	655	NC	
	23 n-Decane	3.878	3.851	0.027	1376	NC	
A	1 C9-C13	4.589	(2.632-6.545)		39201	3.31	
A	21 Stoddard Solvent	4.589	(2.632-6.545)		39201	3.45	
A	57 C10-C12	4.799	(3.851-5.747)		14887	1.52	
	24 Dodecane	5.694	5.747	-0.053	2159	NC	
A	3 C9 - C17	5.940	(2.632-9.248)		234209	17.0	
A	47 C9 - C18	6.227	(2.632-9.823)		337361	30.1	
A	60 C10-C16	6.235	(3.851-8.619)		188328	15.5	
A	15 Kerosene	6.505	(2.632-10.377)		500359	44.5	
A	25 C9-C19	6.505	(2.632-10.377)		500359	36.3	
	26 C13	6.498	6.545	-0.047	5961	NC	
$	27 n-Decanoic Acid (Surr)		7.174			ND	U
A	59 C12-C16	7.183	(5.747-8.619)		175600	17.9	
A	62 C10-C20	7.381	(3.851-10.911)		655332	66.7	
A	28 C9-C24	7.730	(2.632-12.828)		1999273	203.6	
A	29 C9-C25	7.947	(2.632-13.262)		2278792	232.1	
A	54 C10-C23	8.114	(3.851-12.377)		1541641	157.0	
A	4 C10-C24	8.340	(3.851-12.828)		1997056	203.4	
A	16 C10-C25	8.557	(3.851-13.262)		2276575	231.9	
	45 Hexadecane	8.596	8.619	-0.023	25453	NC	
A	14 C10-C26	8.765	(3.851-13.680)		2276575	231.9	
A	67 C12-C22	8.828	(5.747-11.909)		1072817	109.3	
A	5 Diesel	9.162	(3.851-14.472)		3636177	370.4	
A	32 C10-C28	9.162	(3.851-14.472)		3636177	370.4	
A	12 Unknown Hydrocarbons	9.162	(3.851-14.472)		3636177	NC	
A	30 C13-C22	9.227	(6.545-11.909)		1054522	107.4	
	44 Heptadecane	9.260	9.248	0.012	38349	NC	
A	31 C12-C24	9.287	(5.747-12.828)		1984328	202.1	
	49 n-Octadecane	9.863	9.823	0.040	40676	NC	
A	52 Mineral oil	9.908	(2.632-17.184)		8064265	722.5	
A	9 Crude Oil Range Organics (	9.908	(2.632-17.184)		8064265	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.908	(2.632-17.184)		9931047	NC	
33 C19	10.376	10.377	-0.001	86253	NC	
A 64 C13-C28	10.509	(6.545-14.472)		3605154	367.2	
A 17 C10-C36	10.517	(3.851-17.184)		9928830	1011.3	
A 13 C9-C40	10.661	(2.632-18.690)		9563585	1209.0	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		9563585	NC	
A 58 C16-C24	10.724	(8.619-12.828)		1834181	186.8	
61 icosane		10.911			ND	
A 6 C10-C40	11.271	(3.851-18.690)		9558773	1208.7	
$ 34 p-Terphenyl		11.883			ND	U
35 n-Docosane	11.999	11.909	0.090	50932	NC	
A 18 C12-C40	12.218	(5.747-18.690)		9524355	1204.6	
36 Tricosane		12.377			ND	
A 66 C13-C40	12.618	(6.545-18.690)		8797566	1113.3	
37 n-Tetracosane	12.824	12.828	-0.004	455415	NC	
A 2 C16-C36 ORO	12.901	(8.619-17.184)		6221109	872.0	
38 C25		13.262			ND	
A 19 C16-C40	13.655	(8.619-18.690)		9279134	1174.9	
46 n-Hexacosane		13.680			ND	
A 20 C19-C36	13.781	(10.377-17.184)		6081123	779.9	
A 55 C23-C32	14.144	(12.377-15.911)		4013547	977.1	
39 n-Octacosane	14.410	14.472	-0.062	1359602	NC	
65 C29	14.939	14.849	0.090	282352	NC	
A 40 C24-C36	15.006	(12.828-17.184)		5406866	947.2	M
A 7 Motor Oil	15.006	(12.828-17.184)		5312036	930.6	
A 50 C25-C36	15.223	(13.262-17.184)		4946549	919.2	
A 10 C22-C40	15.299	(11.909-18.690)		7300605	921.6	
A 41 C23-C40	15.534	(12.377-18.690)		6986596	903.7	
A 8 C24-C40	15.759	(12.828-18.690)		6651574	891.8	
56 Dotriacontane	15.890	15.911	-0.021	182534	NC	
A 51 C28-C40	16.581	(14.472-18.690)		5014725	1007.4	
A 63 C29-C40	16.770	(14.849-18.690)		4498014	1015.6	
42 n-Hexatriacontane	17.086	17.184	-0.098	2871827	NC	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

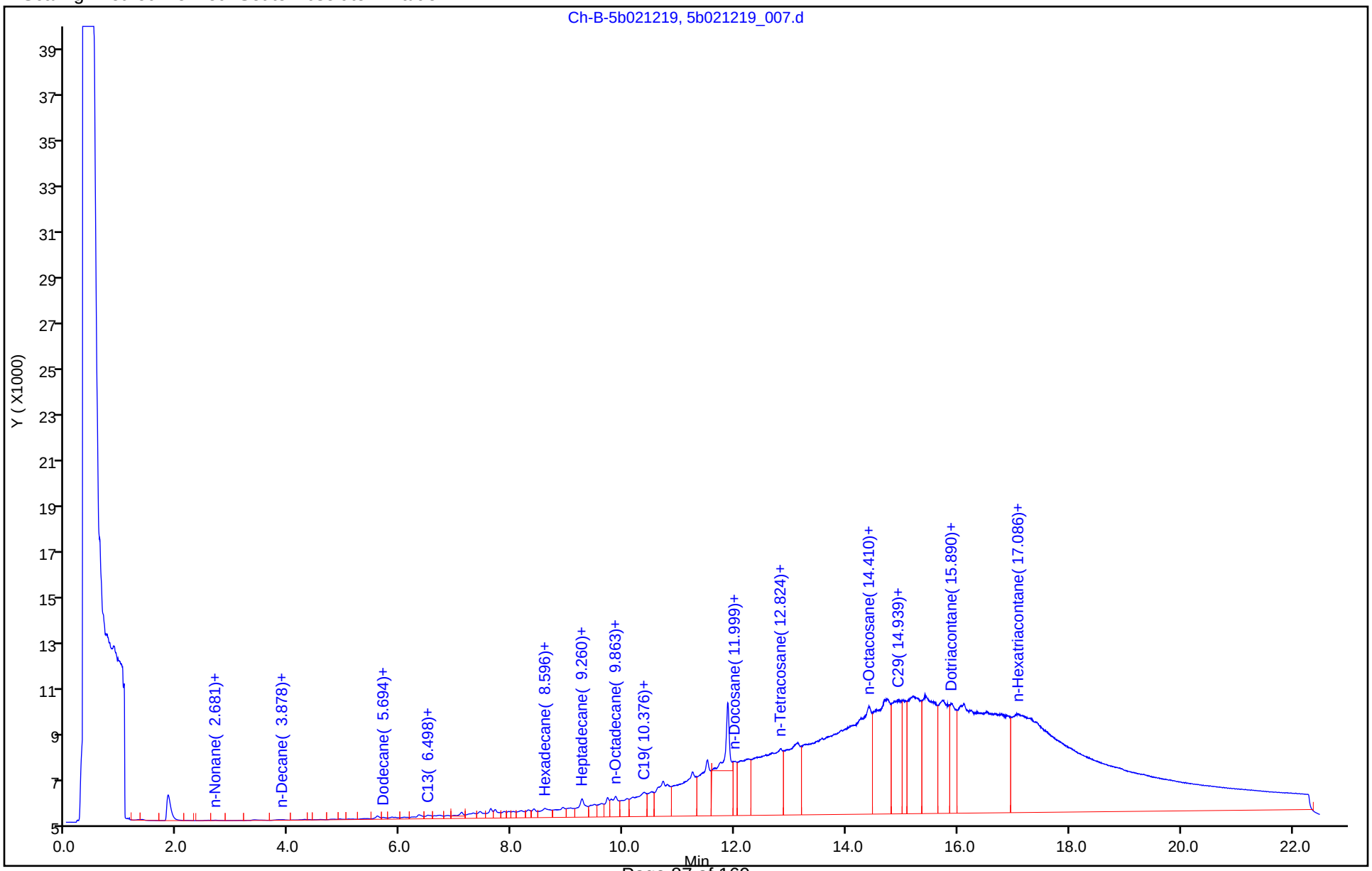
Report Date: 12-Feb-2019 13:45:21 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_007.d

Injection Date:	12-Feb-2019 12:07:50	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-13-J	Lab Sample ID:	720-91069-13	Worklist Smp#:	7
Client ID:	DG-W11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

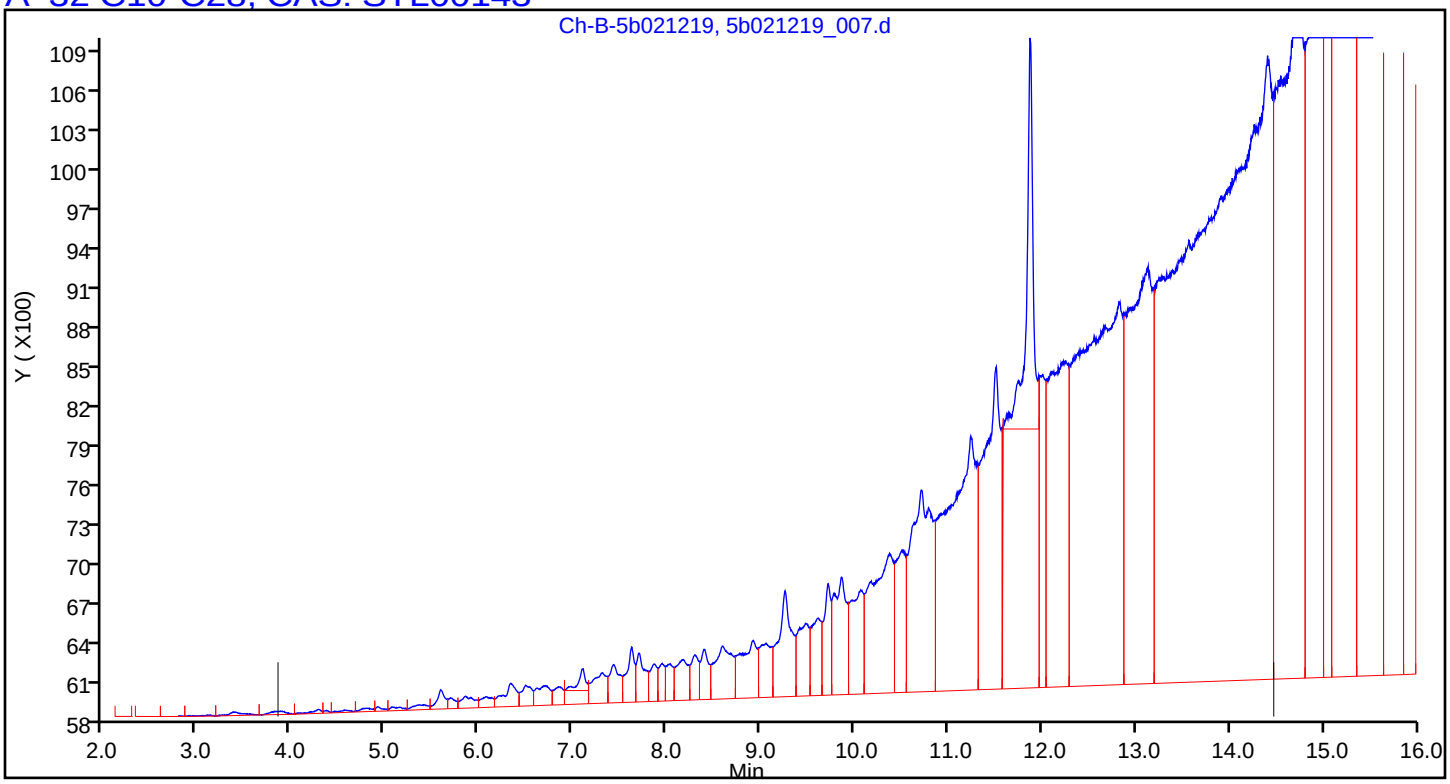


Report Date: 12-Feb-2019 13:45:22 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_007.d				
Injection Date:	12-Feb-2019 12:07:50	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-13-J	Lab Sample ID:	720-91069-13		
Client ID:	DG-W11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

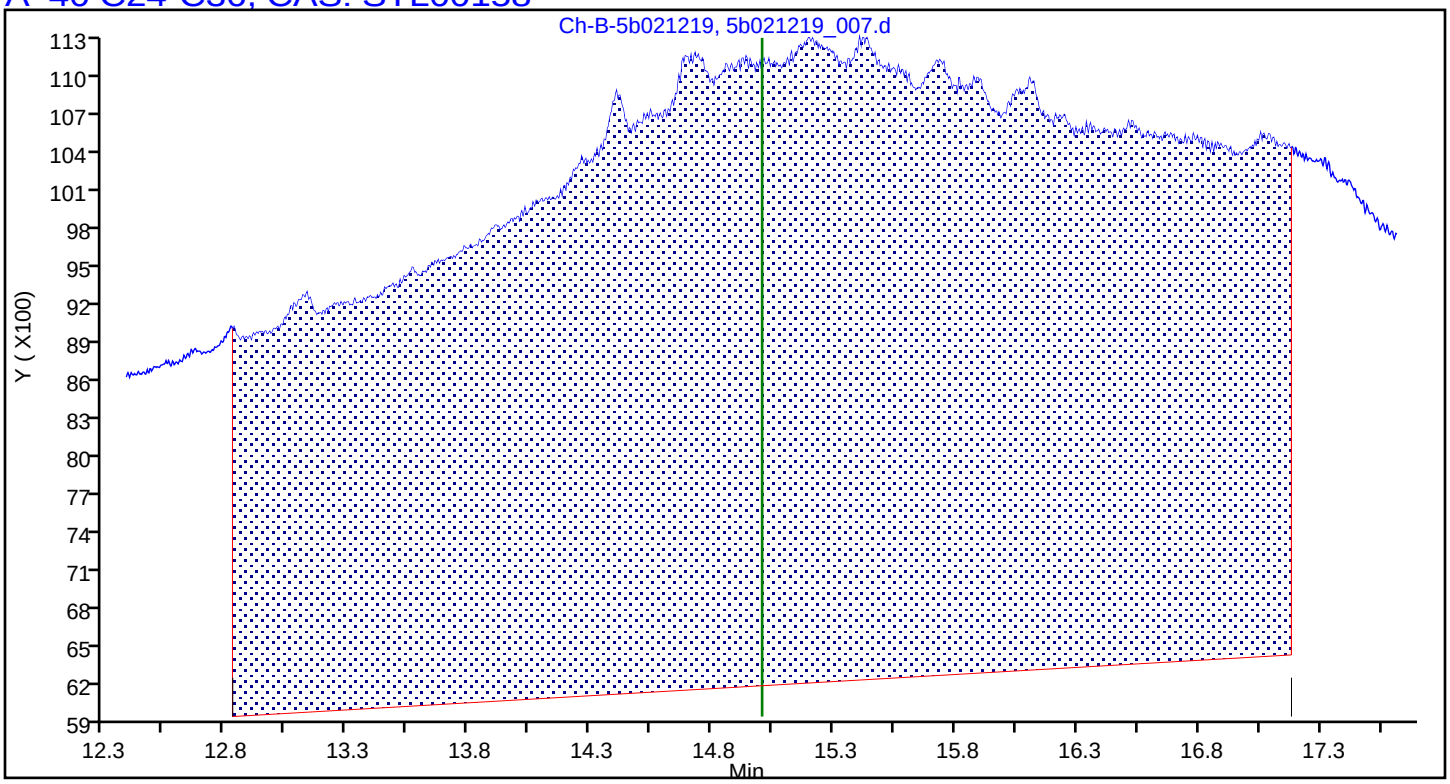


Report Date: 12-Feb-2019 13:45:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_007.d				
Injection Date:	12-Feb-2019 12:07:50	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-13-J	Lab Sample ID:	720-91069-13		
Client ID:	DG-W11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

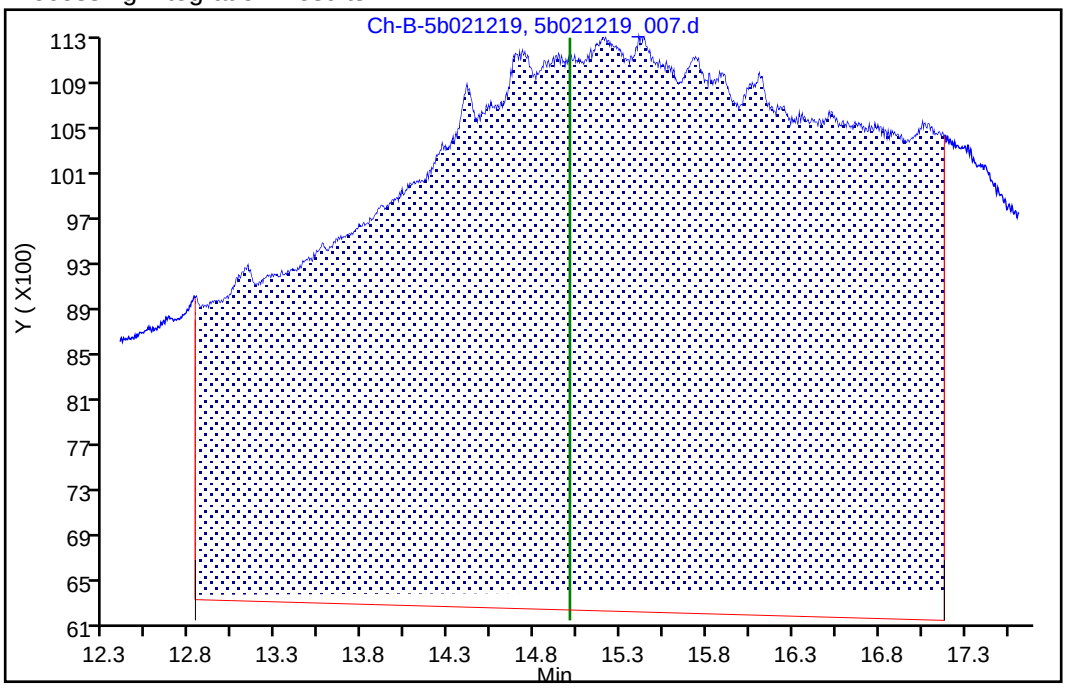
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_007.d				
Injection Date:	12-Feb-2019 12:07:50	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-13-J	Lab Sample ID:	720-91069-13		
Client ID:	DG-W11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.006, CAS: STL00158

Signal: 1

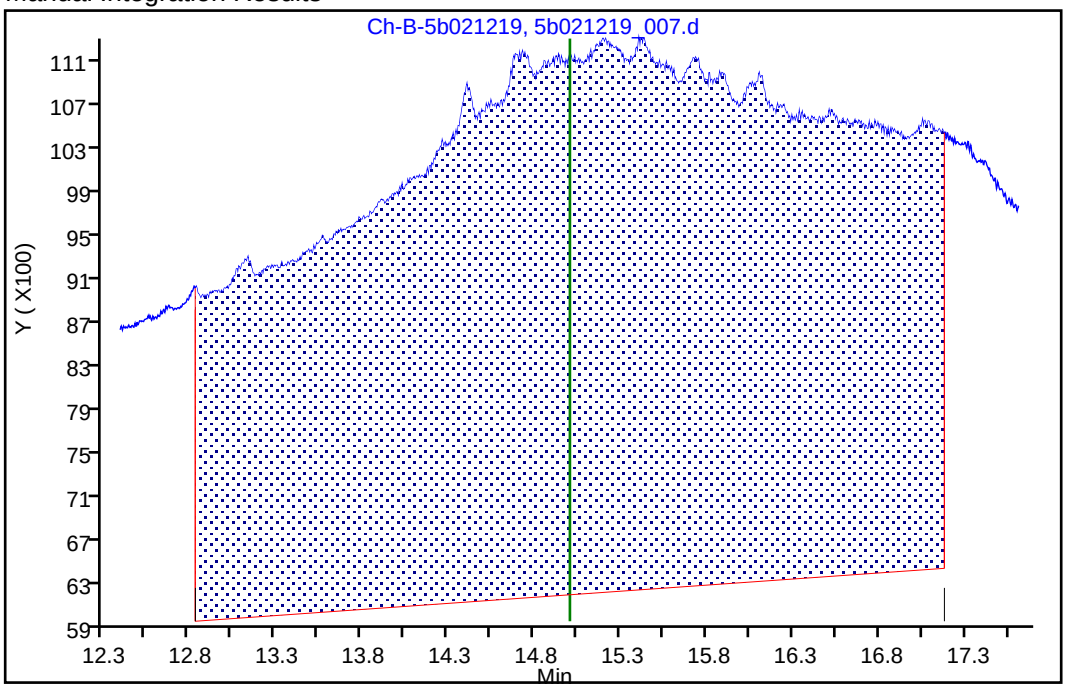
Processing Integration Results

RT: 15.01
Response: 5312036
Amount: 930.5932



Manual Integration Results

RT: 15.01
Response: 5406866
Amount: 947.2061



Reviewer: luj, 12-Feb-2019 13:45:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

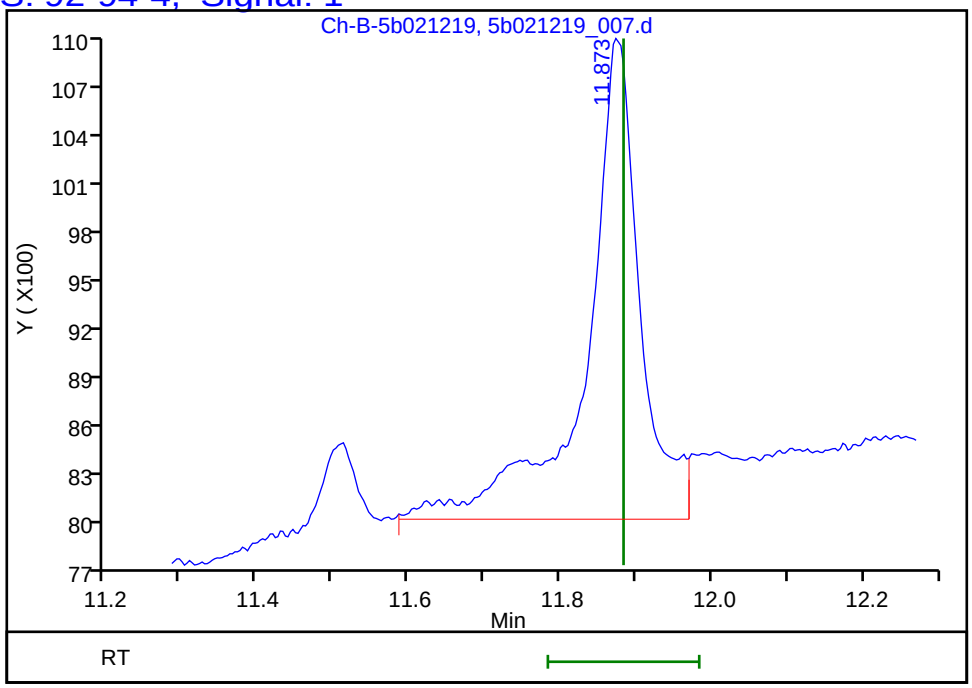
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_007.d				
Injection Date:	12-Feb-2019 12:07:50	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-13-J	Lab Sample ID:	720-91069-13		
Client ID:	DG-W11S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.87
Response: 73158
Amount: 6.369575



Reviewer: luj, 12-Feb-2019 13:44:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_009.d
Lims ID: 720-91069-E-14-F
Client ID: DG-W11S-3.5-4
Sample Type: Client
Inject. Date: 12-Feb-2019 13:05:51 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 037 Name: 720-0056554-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\DRO5A.m
Limit Group: DRO
Last Update: 12-Feb-2019 13:52:22 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 14:01:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.500			ND	
23 n-Decane	3.768	3.748	0.020	1106	NC	
A 1 C9-C13	4.485	(2.500-6.470)		189385	15.1	
A 21 Stoddard Solvent	4.485	(2.500-6.470)		189385	NC	
A 57 C10-C12	4.708	(3.748-5.667)		2404	0.2453	
24 Dodecane		5.667			ND	
A 3 C9 - C17	5.847	(2.500-9.194)		201529	16.6	
A 47 C9 - C18	6.143	(2.500-9.786)		207153	19.2	
A 60 C10-C16	6.153	(3.748-8.558)		10706	0.9714	
A 15 Kerosene	6.413	(2.500-10.326)		218082	20.2	
A 25 C9-C19	6.413	(2.500-10.326)		218082	17.9	
26 C13		6.470			ND	
A 59 C12-C16	7.113	(5.667-8.558)		8302	0.8471	
$ 27 n-Decanoic Acid (Surr)		7.128			ND	
A 62 C10-C20	7.305	(3.748-10.863)		43732	4.46	
A 28 C9-C24	7.646	(2.500-12.793)		245266	25.0	
A 29 C9-C25	7.865	(2.500-13.229)		252236	25.7	
A 54 C10-C23	8.044	(3.748-12.339)		54731	5.58	
A 4 C10-C24	8.270	(3.748-12.793)		59140	6.03	
A 16 C10-C25	8.489	(3.748-13.229)		65464	6.68	
45 Hexadecane	8.581	8.558	0.023	2162	NC	
A 14 C10-C26	8.699	(3.748-13.650)		79556	8.12	
A 67 C12-C22	8.767	(5.667-11.867)		44077	4.50	
A 12 Unknown Hydrocarbons	9.098	(3.748-14.448)		108752	NC	
A 32 C10-C28	9.098	(3.748-14.448)		108752	11.1	
A 5 Diesel	9.098	(3.748-14.448)		108752	11.1	
A 30 C13-C22	9.169	(6.470-11.867)		43868	4.48	
44 Heptadecane	9.213	9.194	0.019	5624	NC	
A 31 C12-C24	9.230	(5.667-12.793)		56736	5.79	
49 n-Octadecane	9.818	9.786	0.032	5485	NC	
A 9 Crude Oil Range Organics (	9.839	(2.500-17.179)		788526	NC	
A 52 Mineral oil	9.839	(2.500-17.179)		788526	68.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.839	(2.500-17.179)		398478	NC	
33 C19		10.326			ND	
A 64 C13-C28	10.459	(6.470-14.448)		106139	10.8	
A 17 C10-C36	10.463	(3.748-17.179)		211706	21.6	
A 13 C9-C40	10.596	(2.500-18.693)		1159785	104.3	
A 68 Crude Oil Range Organics (	10.596	(2.500-18.693)		1159785	NC	
A 58 C16-C24	10.675	(8.558-12.793)		48434	4.94	
61 icosane		10.863			ND	
A 6 C10-C40	11.221	(3.748-18.693)		1156897	104.5	
$ 34 p-Terphenyl	11.860	11.859	0.001	315969	26.5	
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.180	(5.667-18.693)		1152095	104.5	
36 Tricosane	12.341	12.339	0.002	4409	NC	
A 66 C13-C40	12.582	(6.470-18.693)		1147600	104.0	
37 n-Tetracosane	12.797	12.793	0.004	6324	NC	
A 2 C16-C36 ORO	12.868	(8.558-17.179)		744619	98.1	
38 C25	13.236	13.229	0.007	9271	NC	
A 19 C16-C40	13.625	(8.558-18.693)		1115878	100.3	
46 n-Hexacosane		13.650			ND	
A 20 C19-C36	13.752	(10.326-17.179)		386608	44.8	
A 55 C23-C32	14.117	(12.339-15.895)		348637	73.3	
39 n-Octacosane		14.448			ND	
65 C29	14.830	14.828	0.002	47854	NC	
A 7 Motor Oil	14.986	(12.793-17.179)		371871	61.0	
A 40 C24-C36	14.986	(12.793-17.179)		371871	61.0	
A 50 C25-C36	15.204	(13.229-17.179)		362570	62.7	
A 10 C22-C40	15.280	(11.867-18.693)		505640	60.5	
A 41 C23-C40	15.516	(12.339-18.693)		683734	83.4	
A 8 C24-C40	15.743	(12.793-18.693)		677300	85.1	
56 Dotriacontane		15.895			ND	
A 51 C28-C40	16.571	(14.448-18.693)		616845	76.9	
A 63 C29-C40	16.760	(14.828-18.693)		588570	79.0	
42 n-Hexatriacontane		17.179			ND	
43 C40		18.693			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

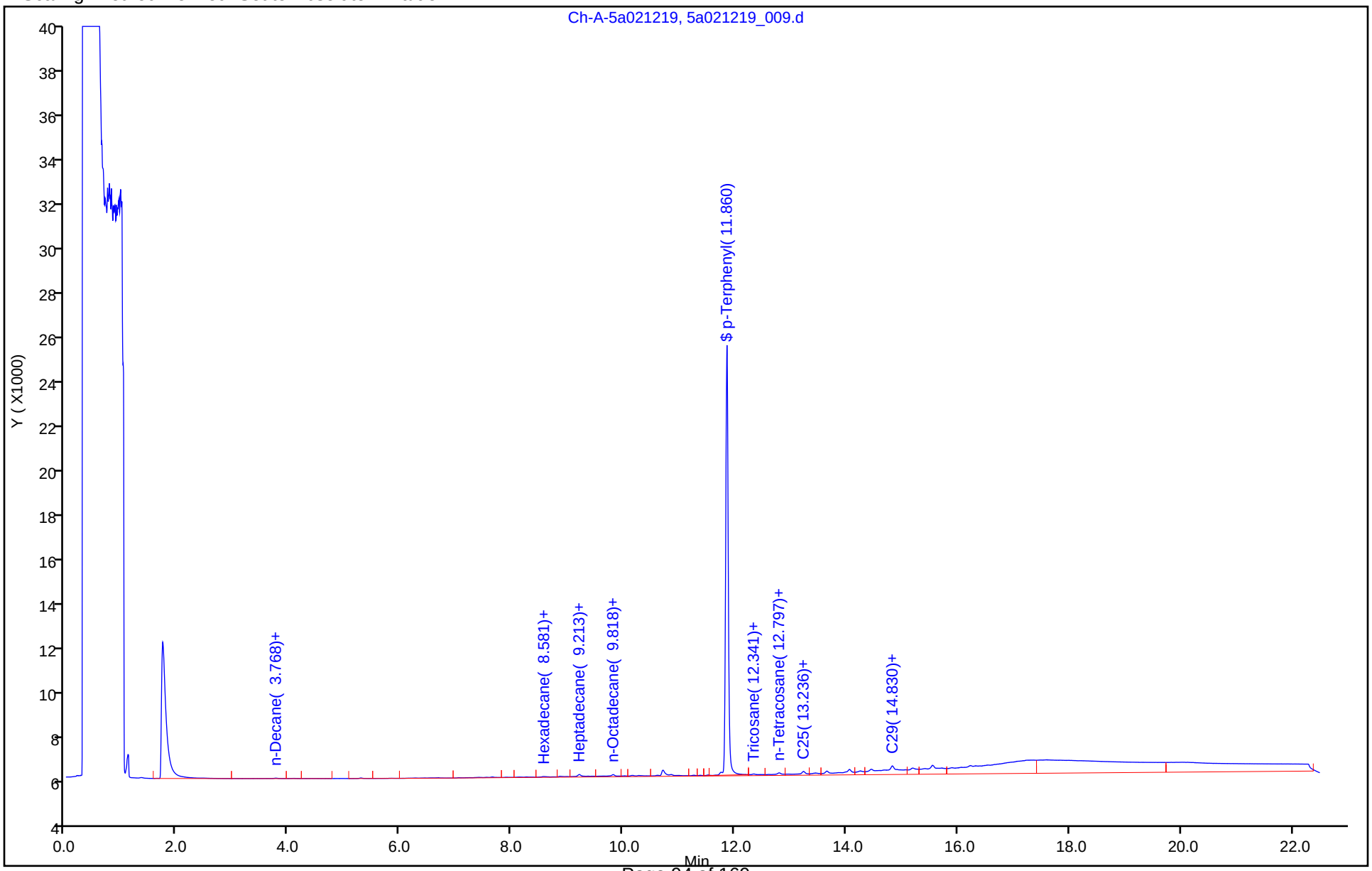
Report Date: 12-Feb-2019 14:01:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_009.d

Injection Date:	12-Feb-2019 13:05:51	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-14-F	Lab Sample ID:	720-91069-14	Worklist Smp#:	9
Client ID:	DG-W11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_009.d				
Lims ID:	720-91069-E-14-F				
Client ID:	DG-W11S-3.5-4				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 13:05:51	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 037 Name: 720-0056554-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 13:52:22	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 14:01:06

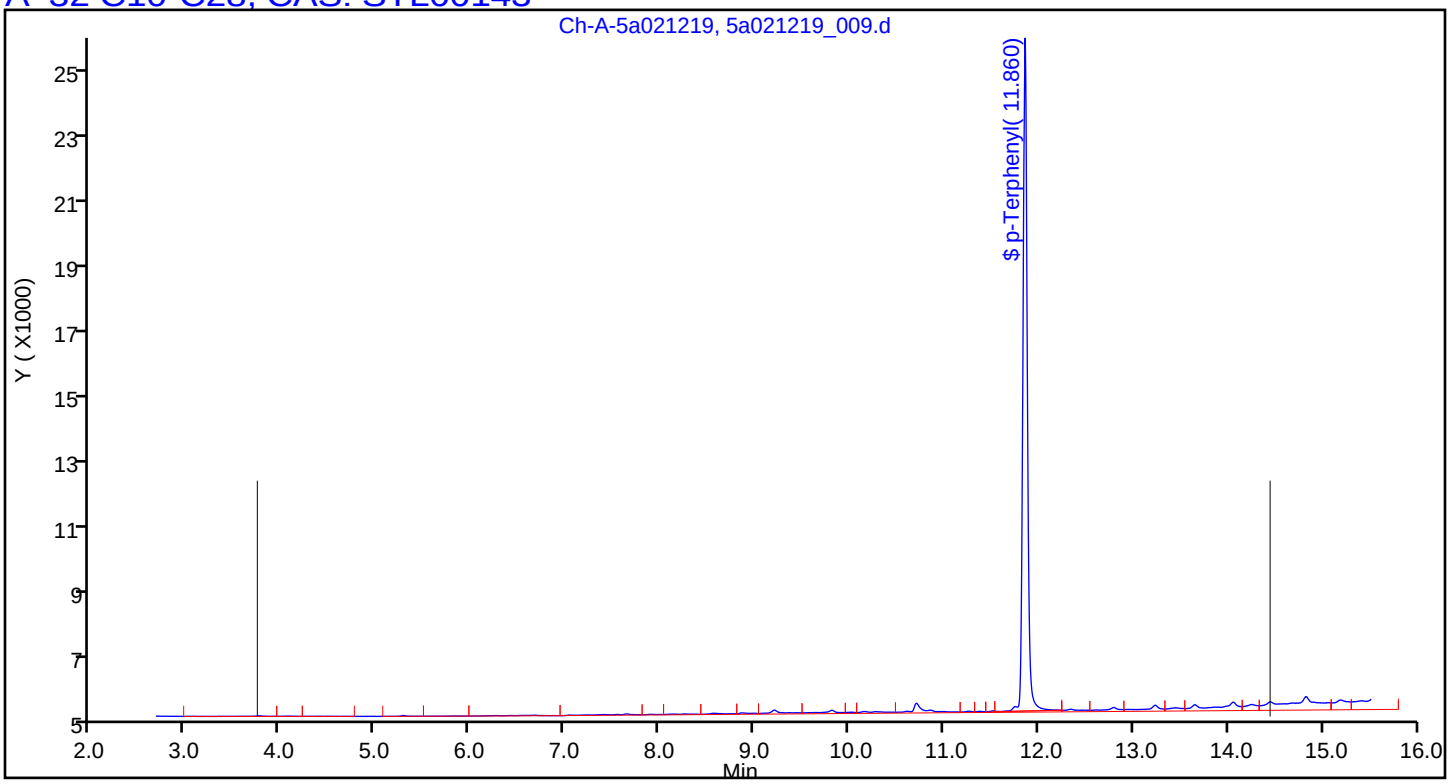
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	26.5	105.99

Report Date: 12-Feb-2019 14:01:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_009.d				
Injection Date:	12-Feb-2019 13:05:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-14-F	Lab Sample ID:	720-91069-14		
Client ID:	DG-W11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

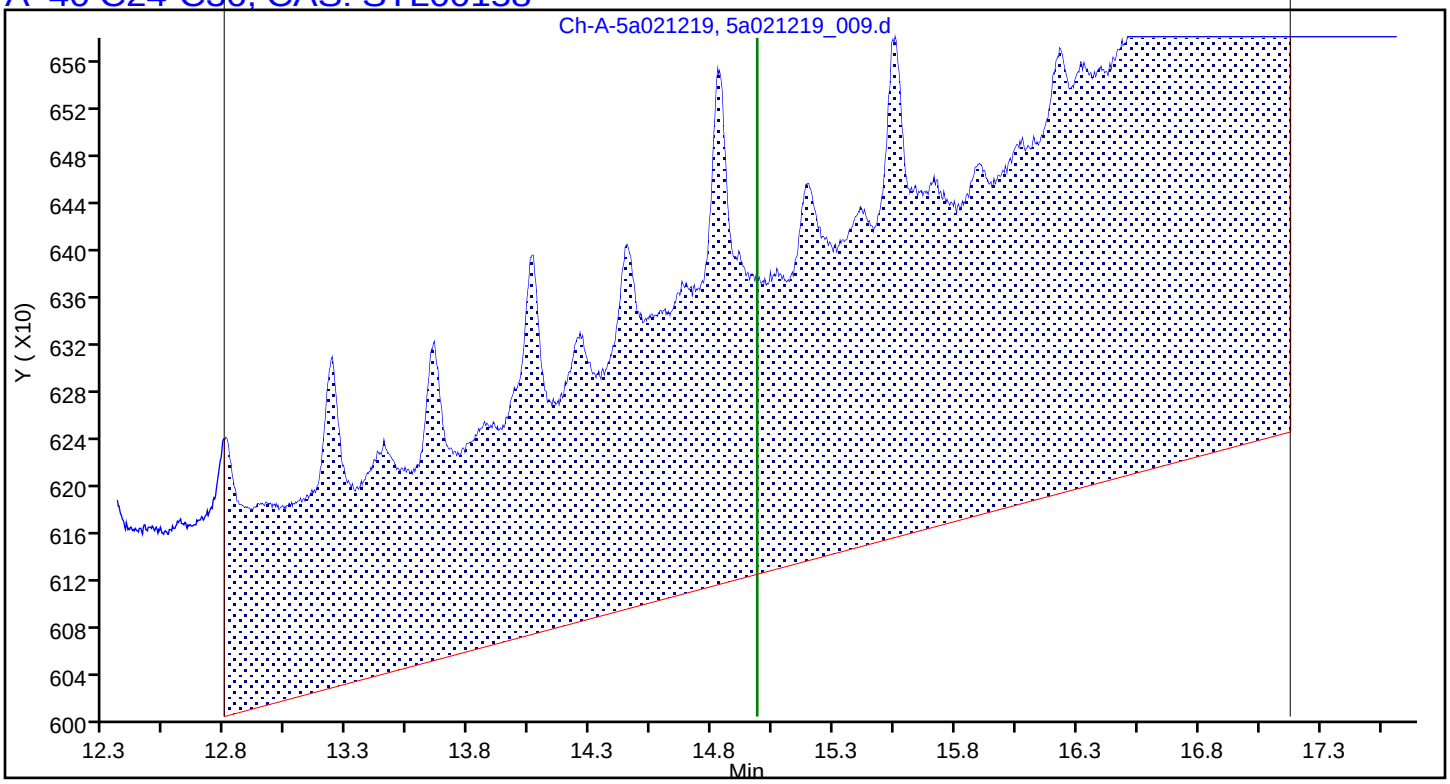


Report Date: 12-Feb-2019 14:01:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_009.d				
Injection Date:	12-Feb-2019 13:05:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-14-F	Lab Sample ID:	720-91069-14		
Client ID:	DG-W11S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_011.d
Lims ID: 720-91069-E-15-F
Client ID: DG-W7S-0.5-1
Sample Type: Client
Inject. Date: 12-Feb-2019 14:04:09 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 140 Name: 720-0056555-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m
Limit Group: DRO
Last Update: 12-Feb-2019 14:40:36 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 14:40:36

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.706	2.632	0.074	654	NC	
	23 n-Decane	3.883	3.851	0.032	3046	NC	
A	1 C9-C13	4.589	(2.632-6.545)		35435	2.99	
A	21 Stoddard Solvent	4.589	(2.632-6.545)		35435	3.12	
A	57 C10-C12	4.799	(3.851-5.747)		17185	1.75	
	24 Dodecane	5.747	5.747	0.000	886	NC	
A	3 C9 - C17	5.940	(2.632-9.248)		183933	13.4	
A	47 C9 - C18	6.227	(2.632-9.823)		275470	24.5	
A	60 C10-C16	6.235	(3.851-8.619)		140349	11.6	
A	15 Kerosene	6.505	(2.632-10.377)		348052	30.9	
A	25 C9-C19	6.505	(2.632-10.377)		348052	25.2	
	26 C13	6.538	6.545	-0.007	6215	NC	
$	27 n-Decanoic Acid (Surr)		7.174			ND	U
A	59 C12-C16	7.183	(5.747-8.619)		123164	12.5	
A	62 C10-C20	7.381	(3.851-10.911)		535527	54.5	
A	28 C9-C24	7.730	(2.632-12.828)		1380093	140.6	
A	29 C9-C25	7.947	(2.632-13.262)		1613834	164.4	
A	54 C10-C23	8.114	(3.851-12.377)		1098107	111.8	
A	4 C10-C24	8.340	(3.851-12.828)		1375777	140.1	
A	16 C10-C25	8.557	(3.851-13.262)		1609518	163.9	
	45 Hexadecane	8.616	8.619	-0.003	9016	NC	
A	14 C10-C26	8.765	(3.851-13.680)		1836926	187.1	
A	67 C12-C22	8.828	(5.747-11.909)		867349	88.3	
A	5 Diesel	9.162	(3.851-14.472)		2386386	243.1	
A	32 C10-C28	9.162	(3.851-14.472)		2386386	243.1	
A	12 Unknown Hydrocarbons	9.162	(3.851-14.472)		2386386	NC	
A	30 C13-C22	9.227	(6.545-11.909)		859630	87.6	
	44 Heptadecane	9.266	9.248	0.018	25782	NC	
A	31 C12-C24	9.287	(5.747-12.828)		1358592	138.4	
	49 n-Octadecane	9.784	9.823	-0.039	17313	NC	
A	52 Mineral oil	9.908	(2.632-17.184)		5336302	478.1	
A	9 Crude Oil Range Organics (	9.908	(2.632-17.184)		5336302	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.908	(2.632-17.184)		6384115	NC	
33 C19	10.383	10.377	0.006	42989	NC	
A 64 C13-C28	10.509	(6.545-14.472)		2361482	240.5	
A 17 C10-C36	10.517	(3.851-17.184)		6379799	649.8	
A 13 C9-C40	10.661	(2.632-18.690)		6358155	789.0	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		6358155	NC	
A 58 C16-C24	10.724	(8.619-12.828)		1244444	126.7	
61 icosane	10.933	10.911	0.022	37409	NC	
A 6 C10-C40	11.271	(3.851-18.690)		6350876	788.3	
$ 34 p-Terphenyl	11.880	11.883	-0.003	257011	22.4	
35 n-Docosane	11.999	11.909	0.090	57338	NC	
A 18 C12-C40	12.218	(5.747-18.690)		6315881	784.2	
36 Tricosane	12.388	12.377	0.011	70880	NC	
A 66 C13-C40	12.618	(6.545-18.690)		5803056	720.2	
37 n-Tetracosane	12.828	12.828	0.000	74842	NC	
A 2 C16-C36 ORO	12.901	(8.619-17.184)		3815213	534.8	
38 C25	13.259	13.262	-0.003	73222	NC	
A 19 C16-C40	13.655	(8.619-18.690)		6116926	759.9	
46 n-Hexacosane	13.679	13.680	-0.001	68975	NC	
A 20 C19-C36	13.781	(10.377-17.184)		3529021	452.6	
A 55 C23-C32	14.144	(12.377-15.911)		2350184	572.2	
39 n-Octacosane	14.399	14.472	-0.073	281632	NC	
65 C29	14.851	14.849	0.002	156148	NC	
A 40 C24-C36	15.006	(12.828-17.184)		3223149	564.6	
A 7 Motor Oil	15.006	(12.828-17.184)		3223149	564.6	
A 50 C25-C36	15.223	(13.262-17.184)		3002144	557.9	
A 10 C22-C40	15.299	(11.909-18.690)		4244992	535.8	
A 41 C23-C40	15.534	(12.377-18.690)		4300196	556.2	
A 8 C24-C40	15.759	(12.828-18.690)		4101266	549.8	
56 Dotriacontane	15.903	15.911	-0.008	155987	NC	
A 51 C28-C40	16.581	(14.472-18.690)		3130522	615.0	
A 63 C29-C40	16.770	(14.849-18.690)		2832124	623.9	
42 n-Hexatriacontane		17.184			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

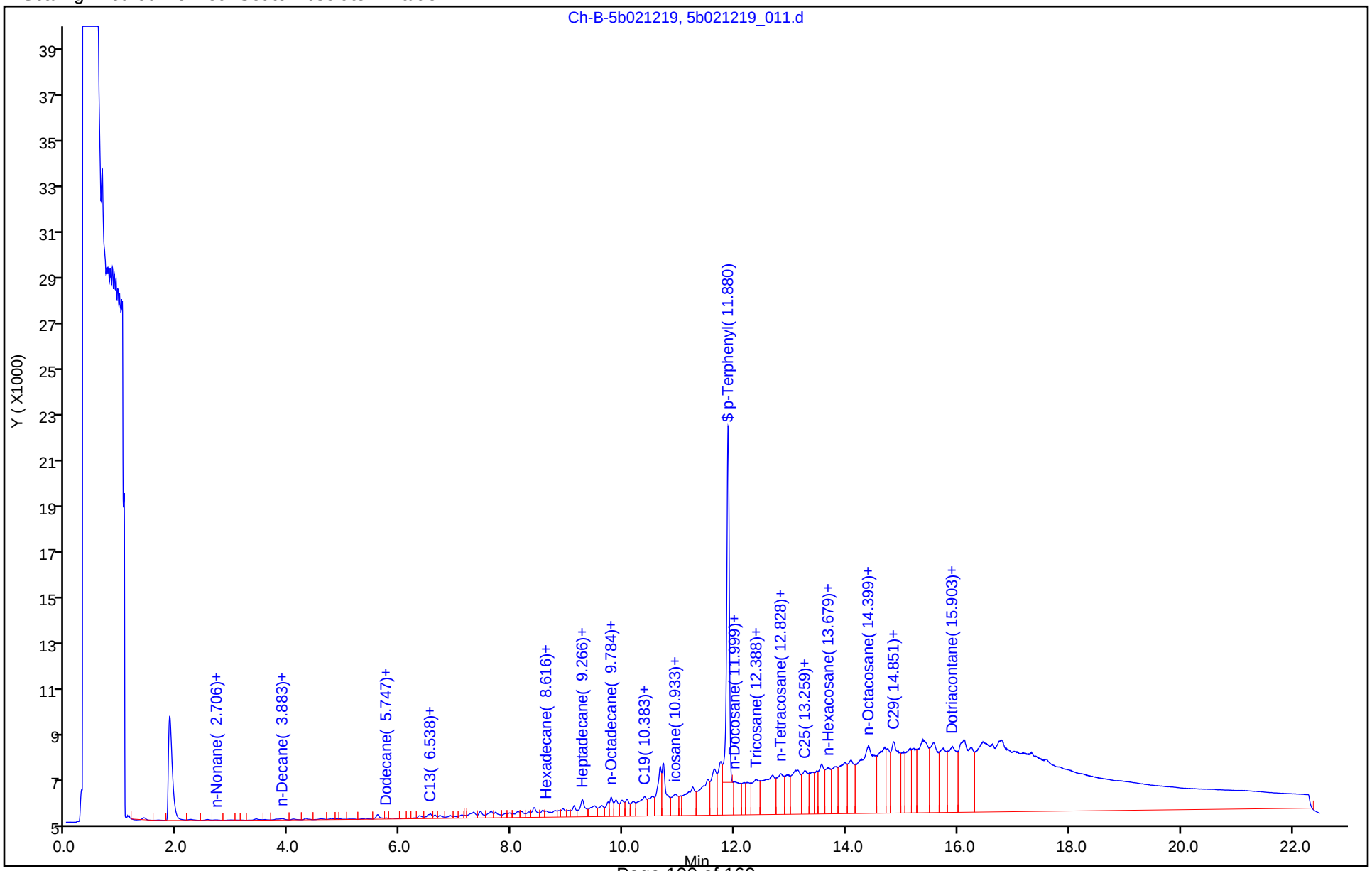
Report Date: 12-Feb-2019 14:40:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_011.d

Injection Date:	12-Feb-2019 14:04:09	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-15-F	Lab Sample ID:	720-91069-15	Worklist Smp#:	11
Client ID:	DG-W7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_011.d				
Lims ID:	720-91069-E-15-F				
Client ID:	DG-W7S-0.5-1				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 14:04:09	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 140 Name: 720-0056555-011				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 14:40:36	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 14:40:36

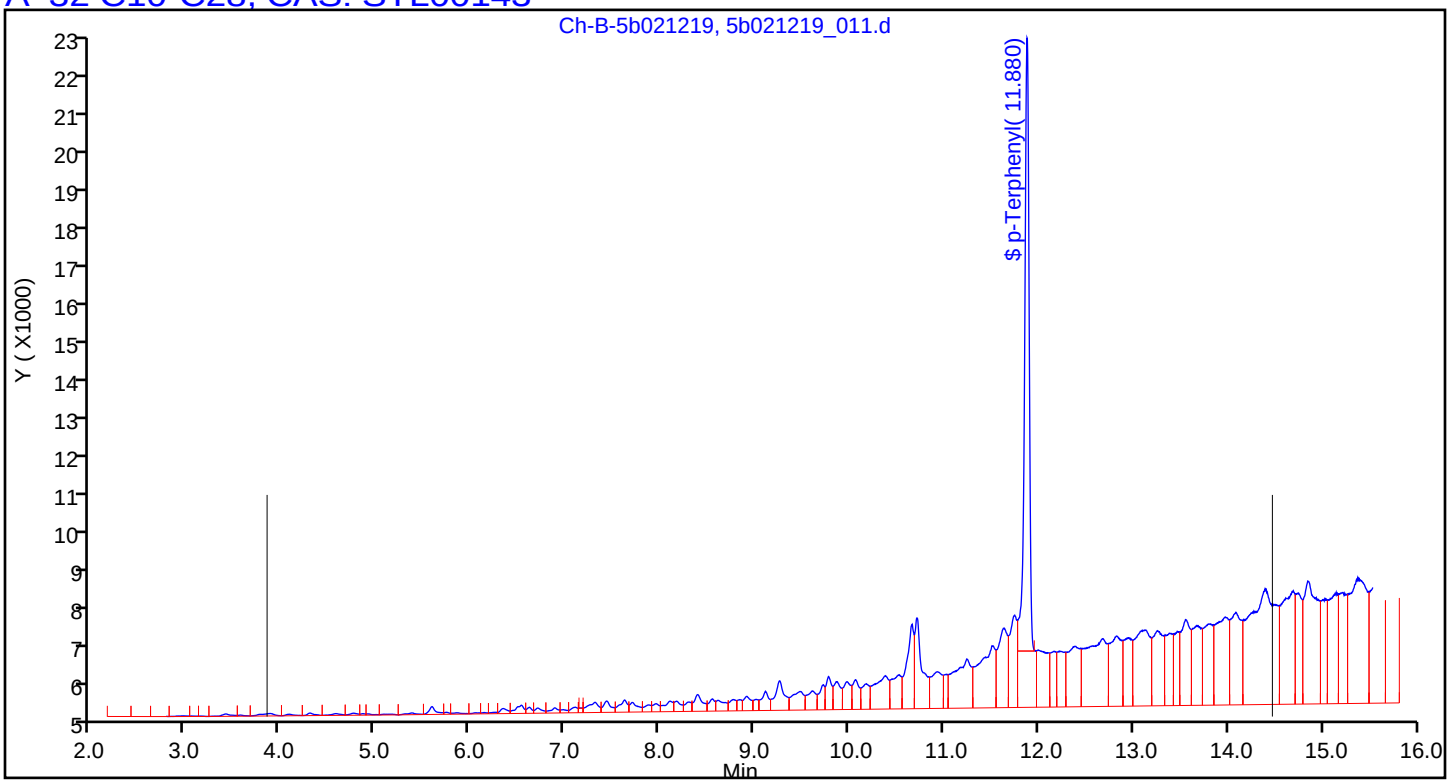
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.4	89.51

Report Date: 12-Feb-2019 14:40:37 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_011.d				
Injection Date:	12-Feb-2019 14:04:09	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-15-F	Lab Sample ID:	720-91069-15		
Client ID:	DG-W7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

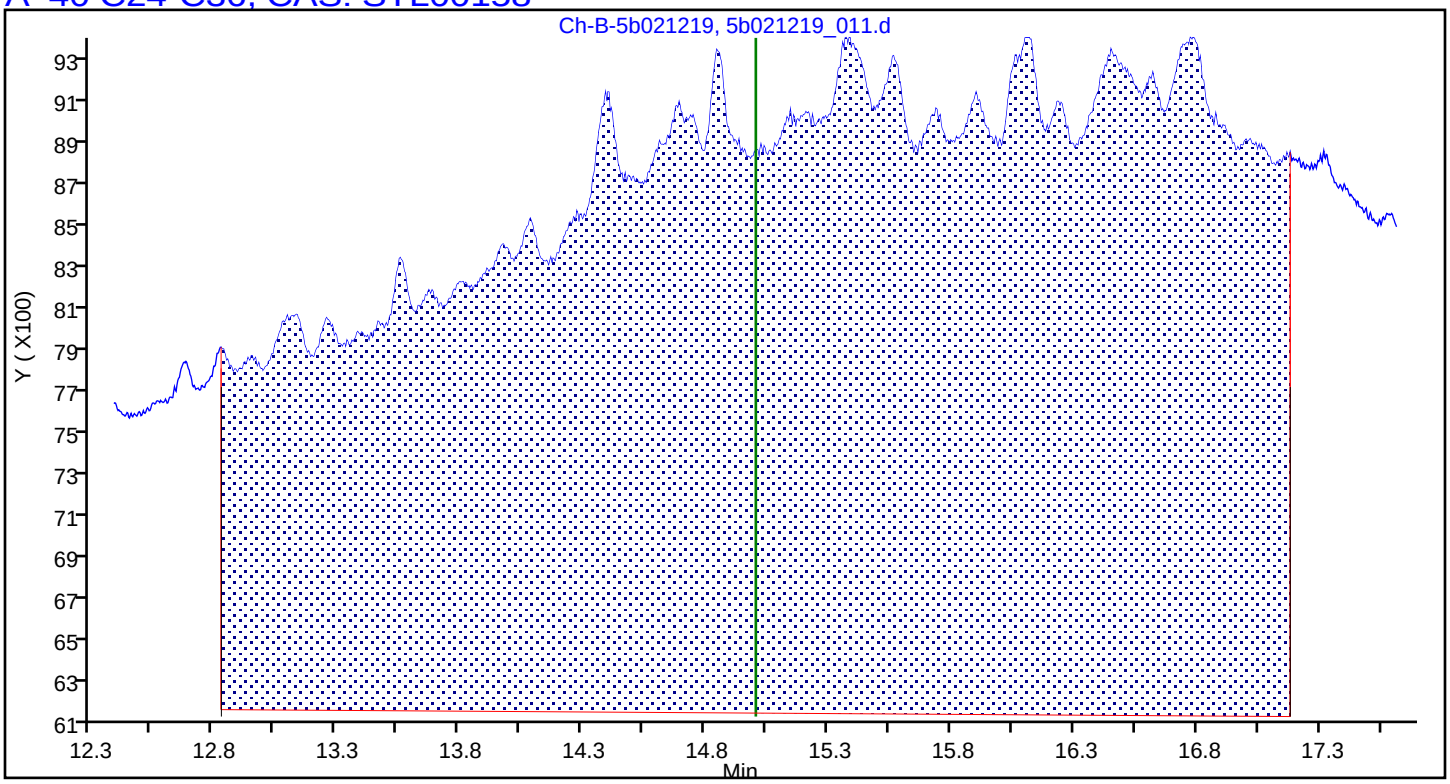


Report Date: 12-Feb-2019 14:40:38 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_011.d				
Injection Date:	12-Feb-2019 14:04:09	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-15-F	Lab Sample ID:	720-91069-15		
Client ID:	DG-W7S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_010.d
Lims ID: 720-91069-E-16-F
Client ID: DG-W7S-3.5-4
Sample Type: Client
Inject. Date: 12-Feb-2019 13:34:58 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 038 Name: 720-0056554-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\DRO5A.m
Limit Group: DRO
Last Update: 12-Feb-2019 14:02:35 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 14:02:35

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.440	2.500	-0.060	1518	NC	
	23 n-Decane	3.761	3.748	0.013	4145	NC	
A	1 C9-C13	4.485	(2.500-6.470)		76570	6.12	
A	21 Stoddard Solvent	4.485	(2.500-6.470)		76570	NC	
A	57 C10-C12	4.708	(3.748-5.667)		41234	4.21	
	24 Dodecane		5.667			ND	
A	3 C9 - C17	5.847	(2.500-9.194)		284987	23.5	
A	47 C9 - C18	6.143	(2.500-9.786)		375994	34.9	
A	60 C10-C16	6.153	(3.748-8.558)		204149	18.5	
A	15 Kerosene	6.413	(2.500-10.326)		433917	40.2	
A	25 C9-C19	6.413	(2.500-10.326)		433917	35.5	
	26 C13	6.457	6.470	-0.013	29118	NC	
A	59 C12-C16	7.113	(5.667-8.558)		186024	19.0	
$	27 n-Decanoic Acid (Surr)		7.128			ND	U
A	62 C10-C20	7.305	(3.748-10.863)		706723	72.1	
A	28 C9-C24	7.646	(2.500-12.793)		1631223	166.4	
A	29 C9-C25	7.865	(2.500-13.229)		1803104	184.0	
A	54 C10-C23	8.044	(3.748-12.339)		1358454	138.6	
A	4 C10-C24	8.270	(3.748-12.793)		1625005	165.8	
A	16 C10-C25	8.489	(3.748-13.229)		1796886	183.3	
	45 Hexadecane	8.550	8.558	-0.008	19296	NC	
A	14 C10-C26	8.699	(3.748-13.650)		2075026	211.7	
A	67 C12-C22	8.767	(5.667-11.867)		1164072	118.8	
A	12 Unknown Hydrocarbons	9.098	(3.748-14.448)		2627150	NC	
A	32 C10-C28	9.098	(3.748-14.448)		2627150	268.0	
A	5 Diesel	9.098	(3.748-14.448)		2627150	268.0	
A	30 C13-C22	9.169	(6.470-11.867)		1140963	116.4	
	44 Heptadecane	9.186	9.194	-0.008	55374	NC	
A	31 C12-C24	9.230	(5.667-12.793)		1606880	164.0	
	49 n-Octadecane	9.695	9.786	-0.091	91007	NC	
A	9 Crude Oil Range Organics (	9.839	(2.500-17.179)		5202521	NC	
A	52 Mineral oil	9.839	(2.500-17.179)		5202521	452.9	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.839	(2.500-17.179)		4830267	NC	
33 C19	10.341	10.326	0.015	43236	NC	
A 64 C13-C28	10.459	(6.470-14.448)		2585916	263.8	
A 17 C10-C36	10.463	(3.748-17.179)		4824049	492.2	
A 13 C9-C40	10.596	(2.500-18.693)		6213208	748.4	
A 68 Crude Oil Range Organics (	10.596	(2.500-18.693)		6213208	NC	
A 58 C16-C24	10.675	(8.558-12.793)		1440152	146.9	
61 icosane		10.863			ND	
A 6 C10-C40	11.221	(3.748-18.693)		6203951	747.6	
$ 34 p-Terphenyl	11.857	11.859	-0.002	267591	22.4	M
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.180	(5.667-18.693)		6158501	742.3	
36 Tricosane	12.338	12.339	-0.001	176257	NC	
A 66 C13-C40	12.582	(6.470-18.693)		6123468	738.0	
37 n-Tetracosane	12.785	12.793	-0.008	266551	NC	
A 2 C16-C36 ORO	12.868	(8.558-17.179)		4940291	650.9	
38 C25	13.228	13.229	-0.001	171881	NC	
A 19 C16-C40	13.625	(8.558-18.693)		5950978	716.6	
46 n-Hexacosane	13.647	13.650	-0.003	278140	NC	
A 20 C19-C36	13.752	(10.326-17.179)		4244682	491.9	
A 55 C23-C32	14.117	(12.339-15.895)		2552421	536.8	
39 n-Octacosane	14.439	14.448	-0.009	348353	NC	
65 C29	14.826	14.828	-0.002	309736	NC	
A 7 Motor Oil	14.986	(12.793-17.179)		3233762	530.8	
A 40 C24-C36	14.986	(12.793-17.179)		3233762	530.8	
A 50 C25-C36	15.204	(13.229-17.179)		3016071	521.3	
A 10 C22-C40	15.280	(11.867-18.693)		4362303	521.8	
A 41 C23-C40	15.516	(12.339-18.693)		4366264	532.4	
A 8 C24-C40	15.743	(12.793-18.693)		4156827	522.5	
56 Dotriacontane	15.973	15.895	0.078	304998	NC	
A 51 C28-C40	16.571	(14.448-18.693)		3203336	506.9	
A 63 C29-C40	16.760	(14.828-18.693)		2911914	507.4	
42 n-Hexatriacontane		17.179			ND	
43 C40		18.693			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

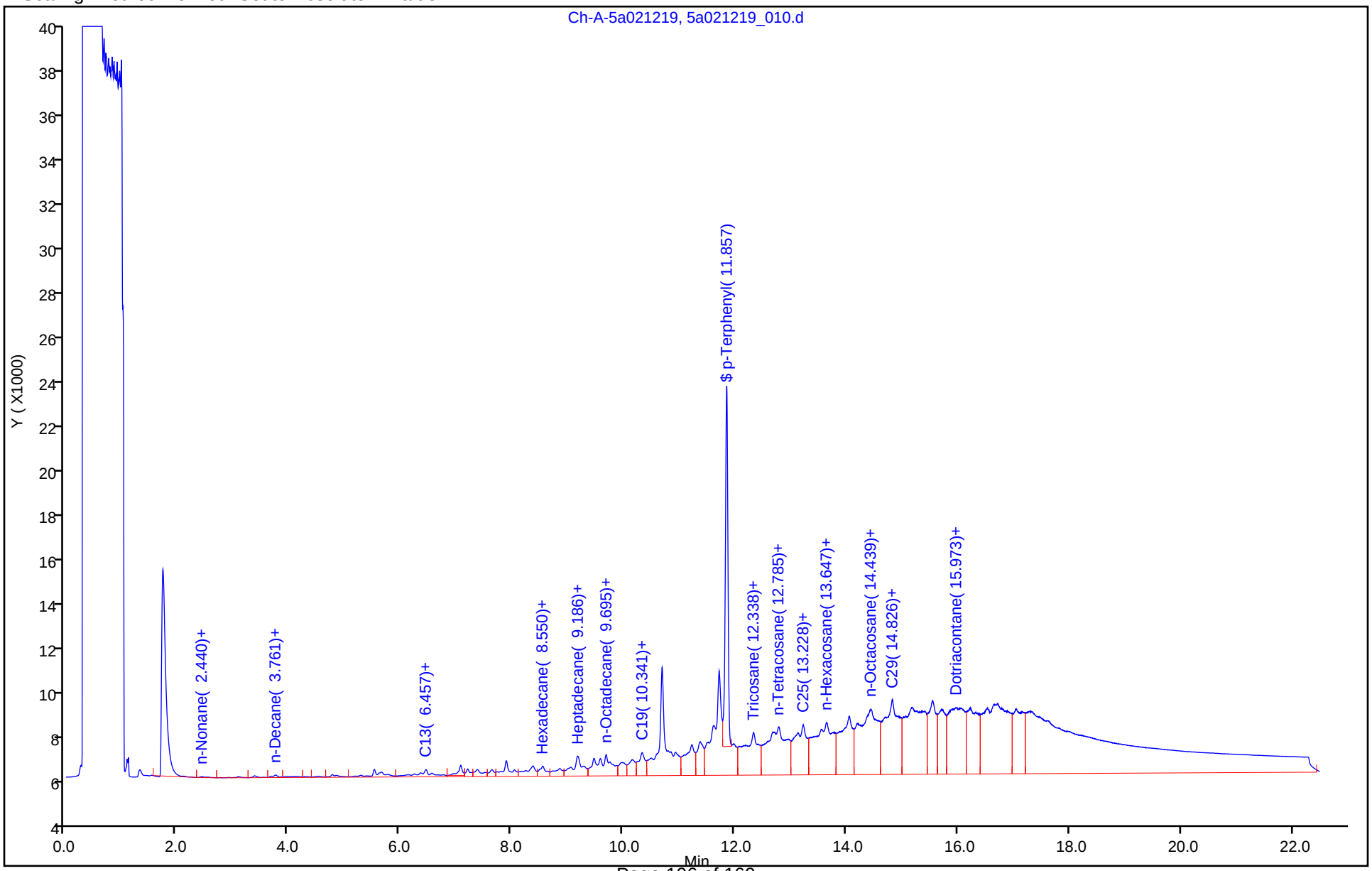
Report Date: 12-Feb-2019 14:02:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_010.d

Injection Date:	12-Feb-2019 13:34:58	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-16-F	Lab Sample ID:	720-91069-16	Worklist Smp#:	10
Client ID:	DG-W7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_010.d				
Lims ID:	720-91069-E-16-F				
Client ID:	DG-W7S-3.5-4				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 13:34:58	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 038 Name: 720-0056554-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 14:02:35	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 14:02:35

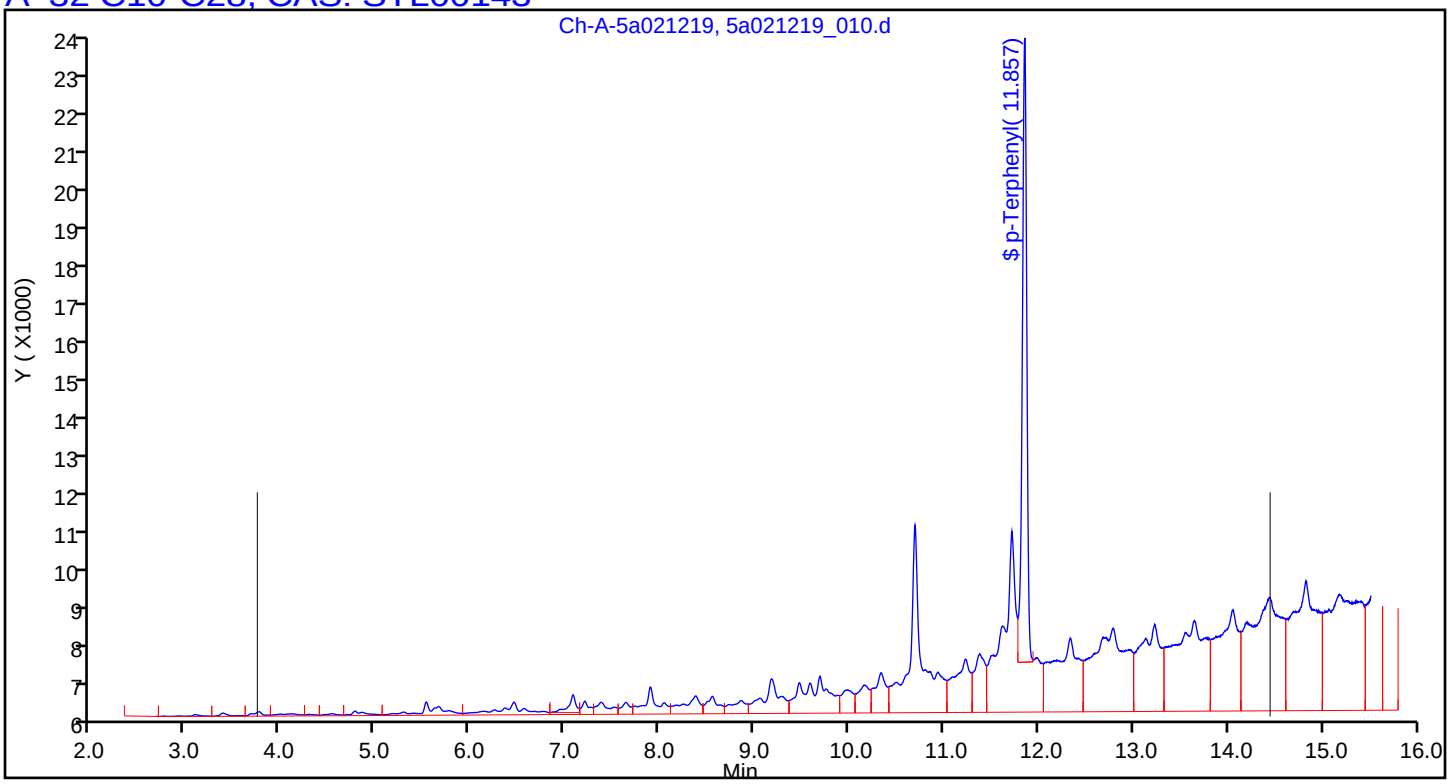
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.4	89.76

Report Date: 12-Feb-2019 14:02:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_010.d				
Injection Date:	12-Feb-2019 13:34:58	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-16-F	Lab Sample ID:	720-91069-16		
Client ID:	DG-W7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

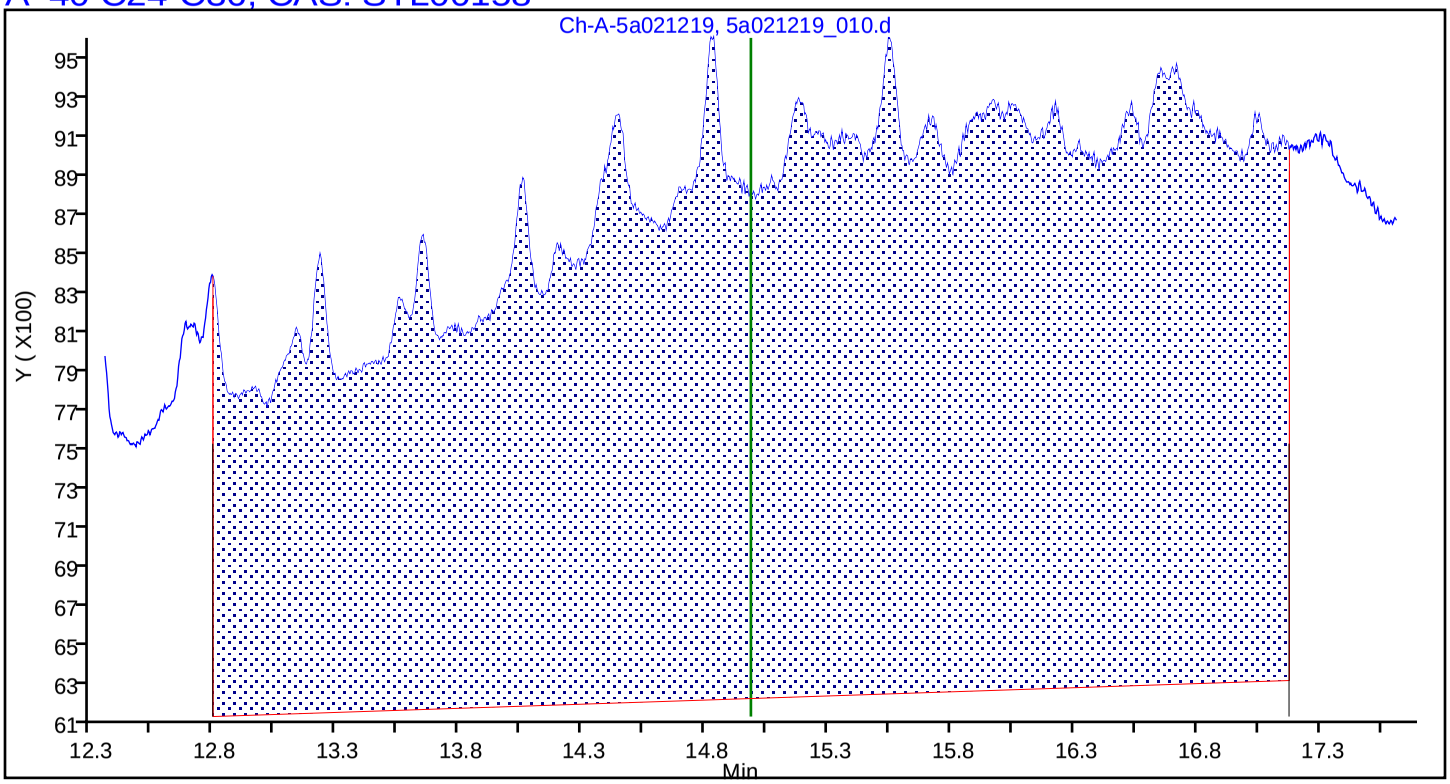


Report Date: 12-Feb-2019 14:02:37 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_010.d				
Injection Date:	12-Feb-2019 13:34:58	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-16-F	Lab Sample ID:	720-91069-16		
Client ID:	DG-W7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

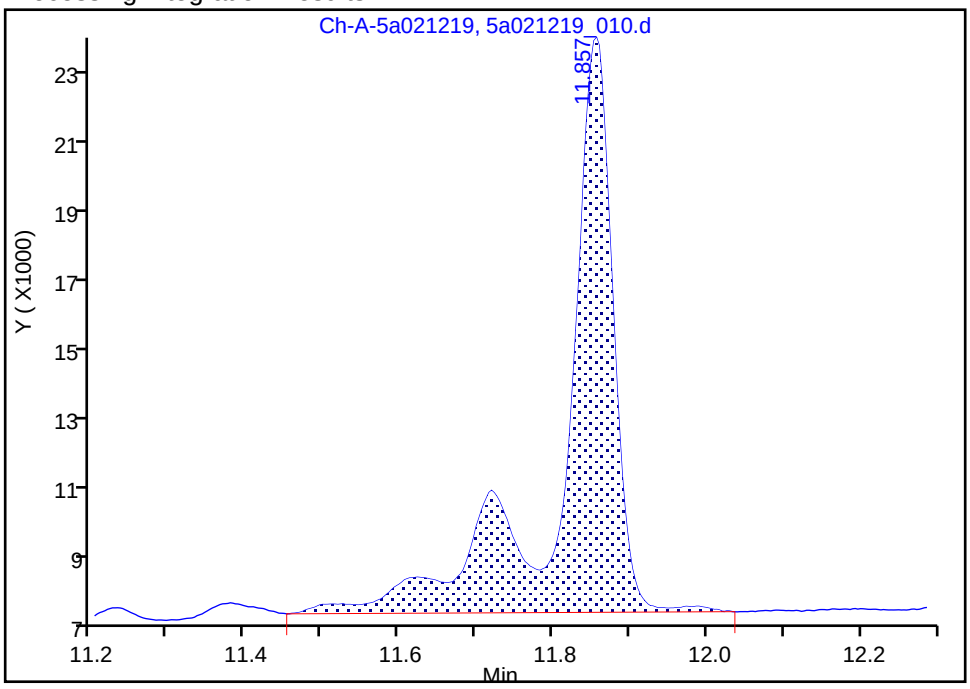
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Injection Date:	12-Feb-2019 13:34:58	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-16-F	Lab Sample ID:	720-91069-16		
Client ID:	DG-W7S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

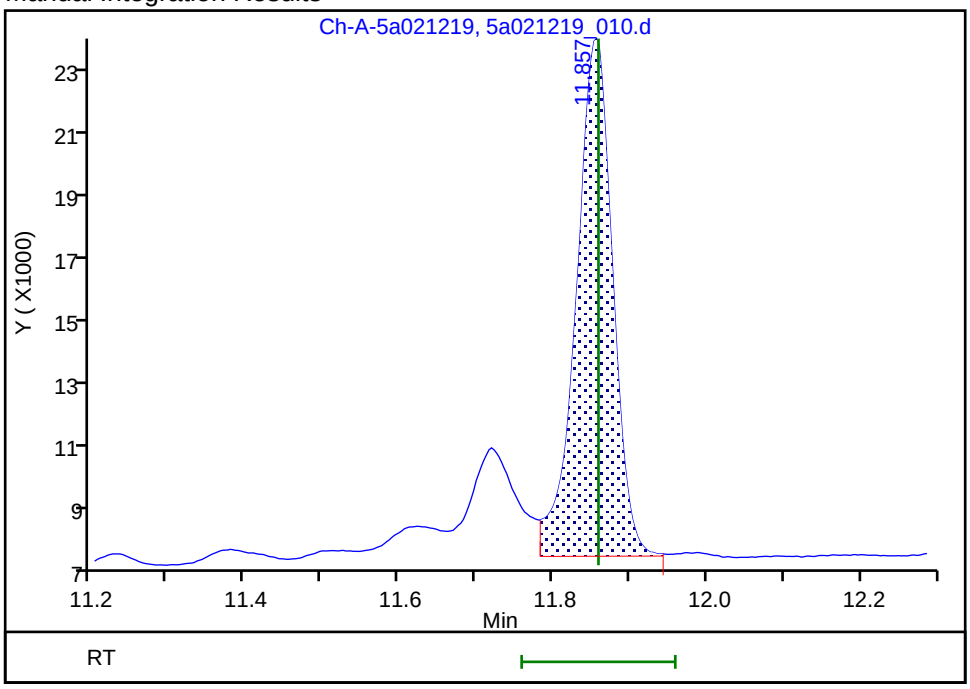
Processing Integration Results

RT: 11.86
Area: 376159
Amount: 31.543960
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 267591
Amount: 22.439659
Amount Units: mg/L



Reviewer: luj, 12-Feb-2019 14:02:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_009.d
Lims ID: 720-91069-E-17-F
Client ID: DG-R5S-0.5-1
Sample Type: Client
Inject. Date: 12-Feb-2019 13:05:51 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 136 Name: 720-0056555-009
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m
Limit Group: DRO
Last Update: 12-Feb-2019 13:46:36 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 13:46:36

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.656	2.632	0.024	1312	NC	
	23 n-Decane	3.863	3.851	0.012	2333	NC	
A	1 C9-C13	4.589	(2.632-6.545)		59676	5.03	
A	21 Stoddard Solvent	4.589	(2.632-6.545)		59676	5.25	
A	57 C10-C12	4.799	(3.851-5.747)		30003	3.06	
	24 Dodecane	5.746	5.747	-0.001	2913	NC	
A	3 C9 - C17	5.940	(2.632-9.248)		288272	21.0	
A	47 C9 - C18	6.227	(2.632-9.823)		416944	37.1	
A	60 C10-C16	6.235	(3.851-8.619)		222677	18.4	
A	15 Kerosene	6.505	(2.632-10.377)		504358	44.8	
A	25 C9-C19	6.505	(2.632-10.377)		504358	36.6	
	26 C13	6.501	6.545	-0.044	9267	NC	
$	27 n-Decanoic Acid (Surr)		7.174			ND	U
A	59 C12-C16	7.183	(5.747-8.619)		195587	19.9	
A	62 C10-C20	7.381	(3.851-10.911)		637790	65.0	
A	28 C9-C24	7.730	(2.632-12.828)		1425698	145.2	
A	29 C9-C25	7.947	(2.632-13.262)		1574859	160.4	
A	54 C10-C23	8.114	(3.851-12.377)		1157793	117.9	
A	4 C10-C24	8.340	(3.851-12.828)		1416242	144.2	
A	16 C10-C25	8.557	(3.851-13.262)		1565403	159.4	
	45 Hexadecane	8.617	8.619	-0.002	5852	NC	
A	14 C10-C26	8.765	(3.851-13.680)		1851743	188.6	
A	67 C12-C22	8.828	(5.747-11.909)		931084	94.8	
A	5 Diesel	9.162	(3.851-14.472)		2379986	242.4	
A	32 C10-C28	9.162	(3.851-14.472)		2379986	242.4	
A	12 Unknown Hydrocarbons	9.162	(3.851-14.472)		2379986	NC	
A	30 C13-C22	9.227	(6.545-11.909)		917221	93.4	
	44 Heptadecane	9.266	9.248	0.018	39239	NC	
A	31 C12-C24	9.287	(5.747-12.828)		1389152	141.5	
	49 n-Octadecane	9.782	9.823	-0.041	31167	NC	
A	52 Mineral oil	9.908	(2.632-17.184)		5299490	474.8	
A	9 Crude Oil Range Organics (	9.908	(2.632-17.184)		5299490	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.908	(2.632-17.184)		6391367	NC	
33 C19	10.378	10.377	0.001	29445	NC	
A 64 C13-C28	10.509	(6.545-14.472)		2339033	238.2	
A 17 C10-C36	10.517	(3.851-17.184)		6381911	650.0	
A 13 C9-C40	10.661	(2.632-18.690)		6219714	770.8	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		6219714	NC	
A 58 C16-C24	10.724	(8.619-12.828)		1199417	122.2	
61 icosane	10.917	10.911	0.006	33238	NC	
A 6 C10-C40	11.271	(3.851-18.690)		6207964	769.6	
$ 34 p-Terphenyl	11.880	11.883	-0.003	125692	10.9	
35 n-Docosane	12.004	11.909	0.095	41075	NC	
A 18 C12-C40	12.218	(5.747-18.690)		6161582	764.0	
36 Tricosane	12.377	12.377	0.000	70267	NC	
A 66 C13-C40	12.618	(6.545-18.690)		5599002	693.4	
37 n-Tetracosane	12.825	12.828	-0.003	75661	NC	
A 2 C16-C36 ORO	12.901	(8.619-17.184)		3901939	546.9	
38 C25	13.263	13.262	0.001	70904	NC	
A 19 C16-C40	13.655	(8.619-18.690)		5901563	731.7	
46 n-Hexacosane	13.679	13.680	-0.001	70526	NC	
A 20 C19-C36	13.781	(10.377-17.184)		3535121	453.4	
A 55 C23-C32	14.144	(12.377-15.911)		2276596	554.2	
39 n-Octacosane	14.389	14.472	-0.083	276251	NC	
65 C29	14.850	14.849	0.001	164256	NC	
A 40 C24-C36	15.006	(12.828-17.184)		3321690	581.9	M
A 7 Motor Oil	15.006	(12.828-17.184)		3208548	562.1	
A 50 C25-C36	15.223	(13.262-17.184)		3009104	559.2	
A 10 C22-C40	15.299	(11.909-18.690)		4201685	530.4	
A 41 C23-C40	15.534	(12.377-18.690)		4158493	537.9	
A 8 C24-C40	15.759	(12.828-18.690)		3983228	534.0	
56 Dotriacontane	15.920	15.911	0.009	196453	NC	
A 51 C28-C40	16.581	(14.472-18.690)		3089749	606.5	
A 63 C29-C40	16.770	(14.849-18.690)		2800128	616.4	
42 n-Hexatriacontane		17.184			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

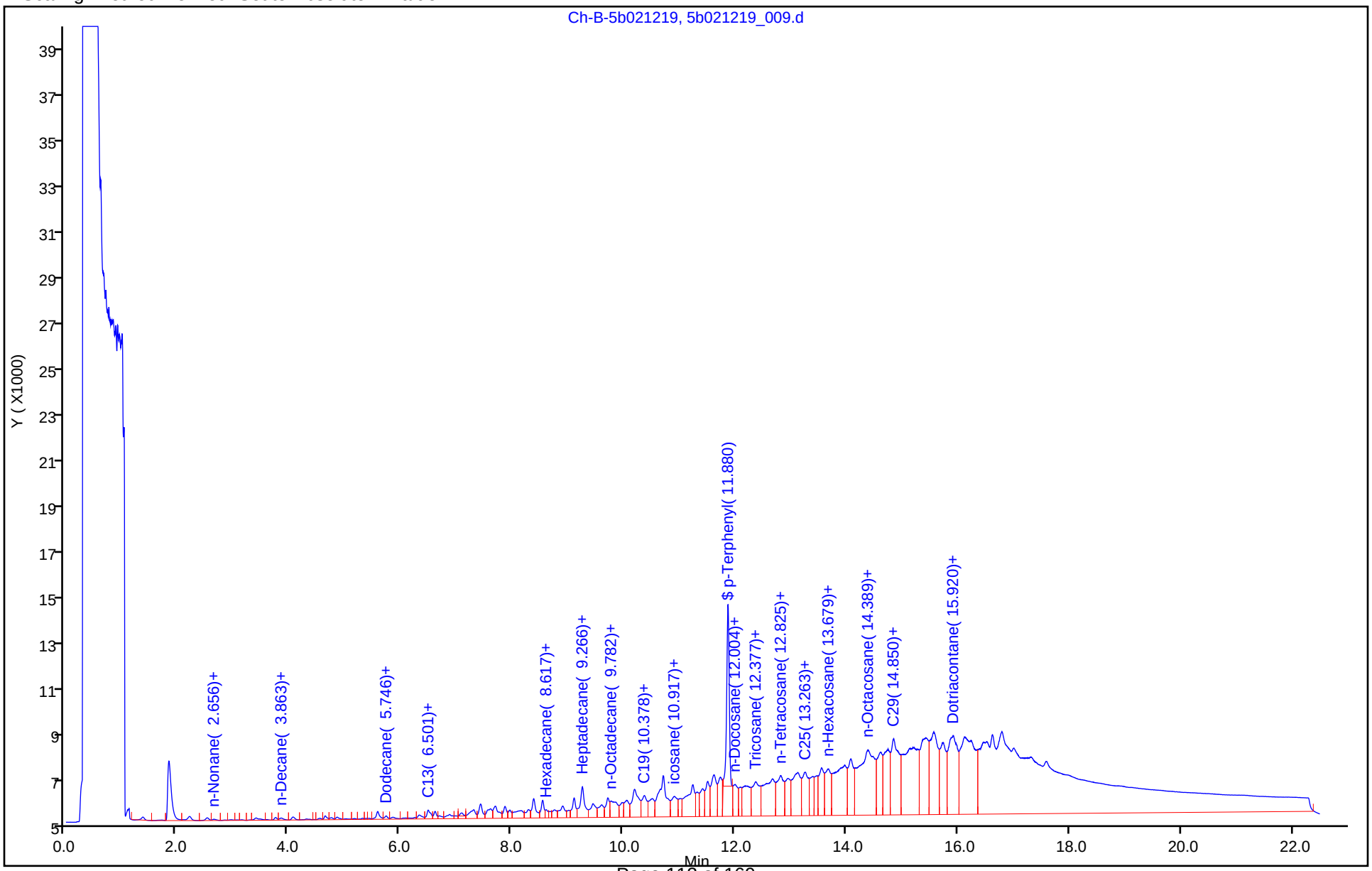
Report Date: 12-Feb-2019 13:46:37 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_009.d

Injection Date:	12-Feb-2019 13:05:51	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-17-F	Lab Sample ID:	720-91069-17	Worklist Smp#:	9
Client ID:	DG-R5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_009.d				
Lims ID:	720-91069-E-17-F				
Client ID:	DG-R5S-0.5-1				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 13:05:51	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 136 Name: 720-0056555-009				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 13:46:36	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 13:46:36

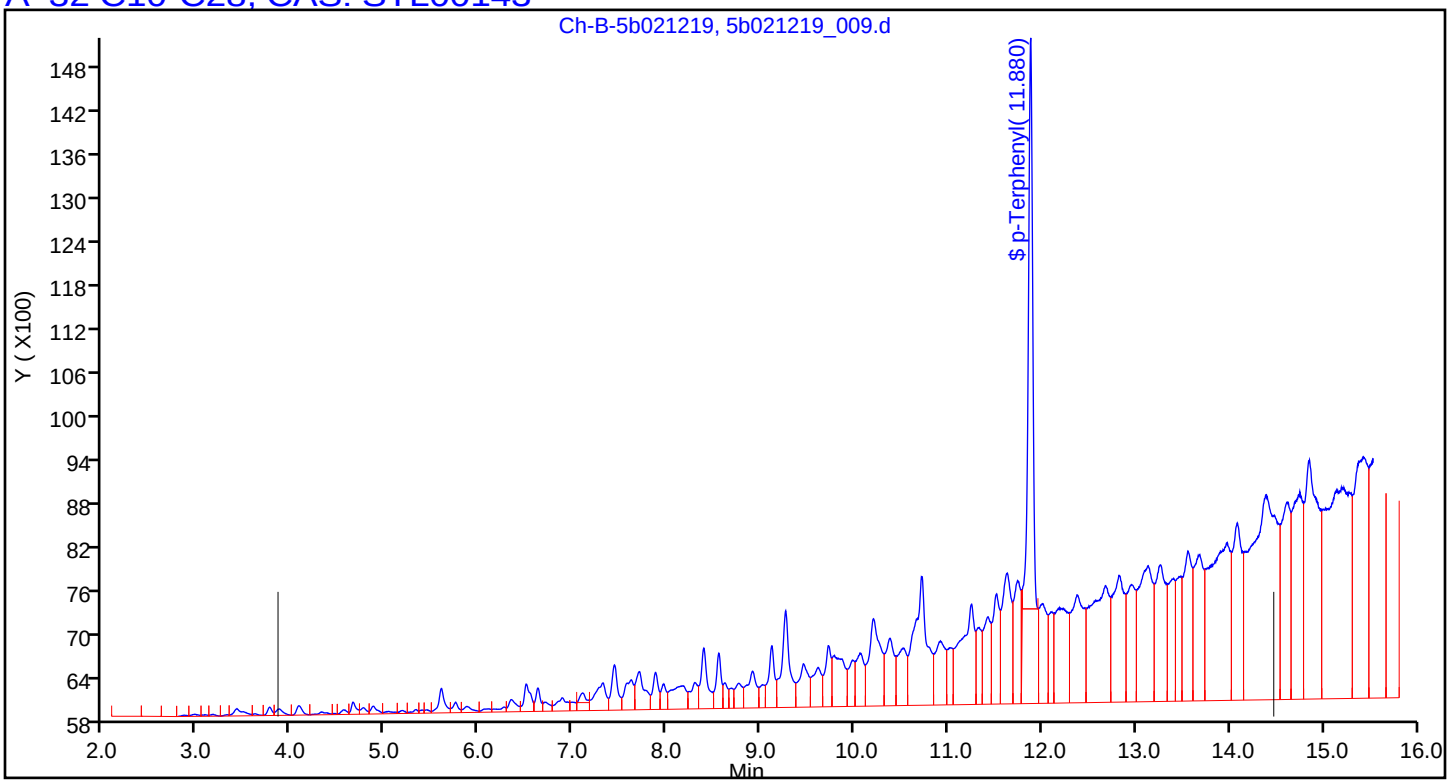
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	10.9	87.55

Report Date: 12-Feb-2019 13:46:38 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_009.d				
Injection Date:	12-Feb-2019 13:05:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-17-F	Lab Sample ID:	720-91069-17		
Client ID:	DG-R5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

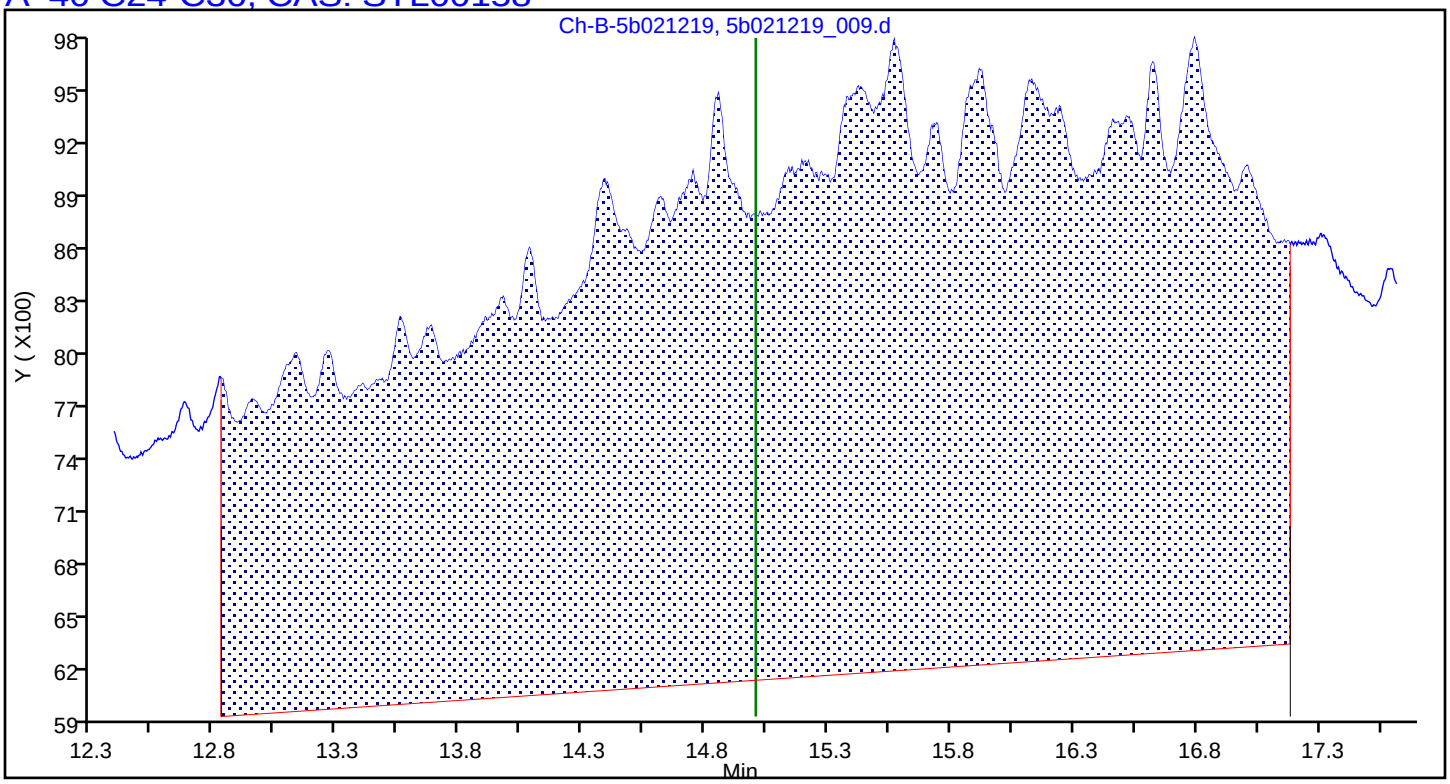


Report Date: 12-Feb-2019 13:46:39 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_009.d				
Injection Date:	12-Feb-2019 13:05:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-17-F	Lab Sample ID:	720-91069-17		
Client ID:	DG-R5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

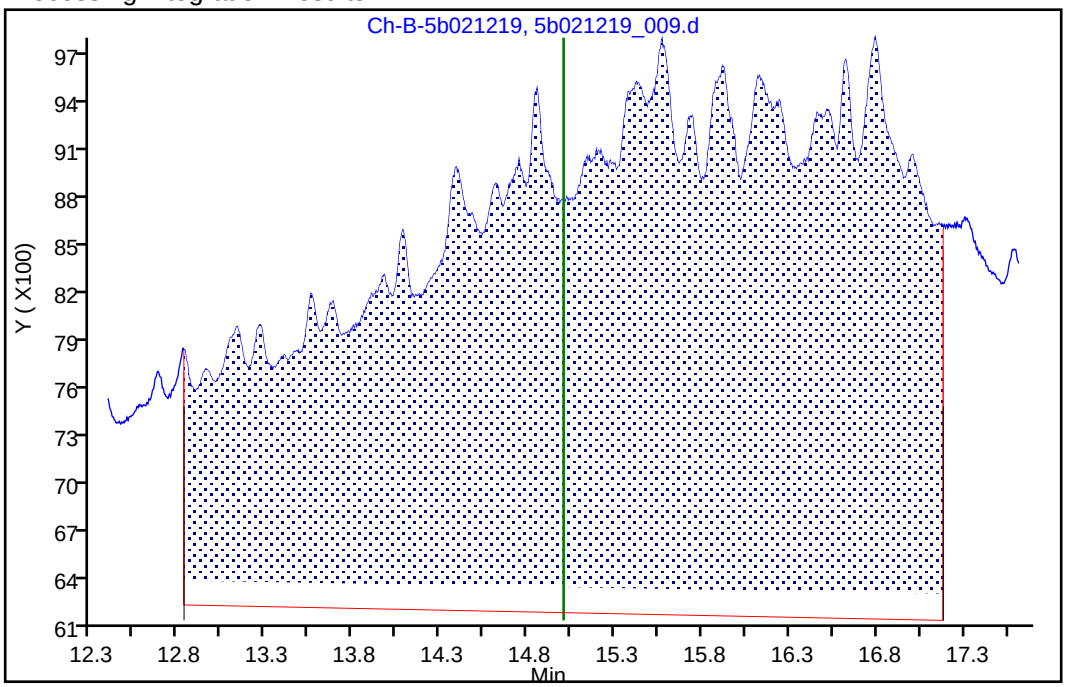
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Injection Date:	12-Feb-2019 13:05:51	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-17-F	Lab Sample ID:	720-91069-17		
Client ID:	DG-R5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.006, CAS: STL00158

Signal: 1

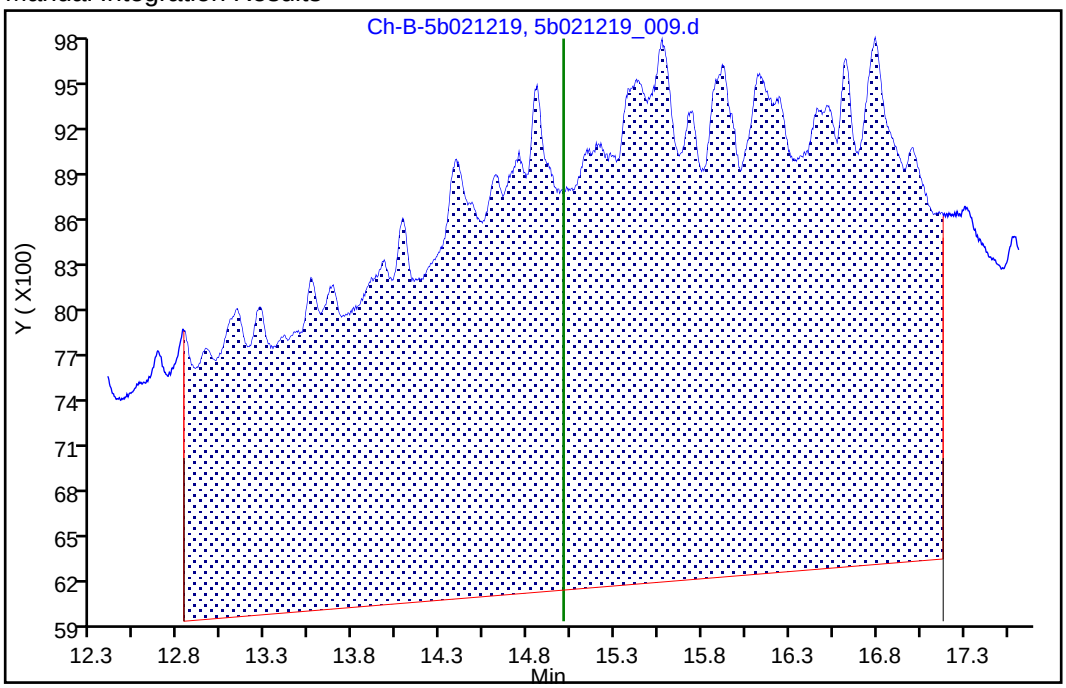
Processing Integration Results

RT: 15.01
Response: 3208548
Amount: 562.0920



Manual Integration Results

RT: 15.01
Response: 3321690
Amount: 581.9129



Reviewer: luj, 12-Feb-2019 13:46:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_011.d
Lims ID: 720-91069-E-18-F
Client ID: DG-R5S-3.5-4
Sample Type: Client
Inject. Date: 12-Feb-2019 14:04:09 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 041 Name: 720-0056554-011
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\DRO5A.m
Limit Group: DRO
Last Update: 12-Feb-2019 14:40:03 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 14:40:03

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.462	2.500	-0.038	1001	NC	
	23 n-Decane	3.768	3.748	0.020	1246	NC	
A	1 C9-C13	4.485	(2.500-6.470)		13029	1.04	
A	21 Stoddard Solvent	4.485	(2.500-6.470)		13029	NC	
A	57 C10-C12	4.708	(3.748-5.667)		4232	0.4318	
	24 Dodecane	5.689	5.667	0.022	2144	NC	
A	3 C9 - C17	5.847	(2.500-9.194)		54924	4.53	
A	47 C9 - C18	6.143	(2.500-9.786)		97446	9.05	
A	60 C10-C16	6.153	(3.748-8.558)		47540	4.31	
A	15 Kerosene	6.413	(2.500-10.326)		103127	9.56	
A	25 C9-C19	6.413	(2.500-10.326)		103127	8.45	
	26 C13	6.469	6.470	-0.001	3804	NC	
A	59 C12-C16	7.113	(5.667-8.558)		43308	4.42	
$	27 n-Decanoic Acid (Surr)		7.128			ND	U
A	62 C10-C20	7.305	(3.748-10.863)		185920	19.0	
A	28 C9-C24	7.646	(2.500-12.793)		376140	38.4	
A	29 C9-C25	7.865	(2.500-13.229)		543804	55.5	
A	54 C10-C23	8.044	(3.748-12.339)		334054	34.1	
A	4 C10-C24	8.270	(3.748-12.793)		374289	38.2	
A	16 C10-C25	8.489	(3.748-13.229)		541953	55.3	
	45 Hexadecane	8.525	8.558	-0.033	6084	NC	
A	14 C10-C26	8.699	(3.748-13.650)		563158	57.5	
A	67 C12-C22	8.767	(5.667-11.867)		244748	25.0	
A	12 Unknown Hydrocarbons	9.098	(3.748-14.448)		858474	NC	
A	32 C10-C28	9.098	(3.748-14.448)		858474	87.6	
A	5 Diesel	9.098	(3.748-14.448)		858474	87.6	
A	30 C13-C22	9.169	(6.470-11.867)		241606	24.7	
	44 Heptadecane	9.205	9.194	0.011	16550	NC	
A	31 C12-C24	9.230	(5.667-12.793)		370057	37.8	
	49 n-Octadecane	9.714	9.786	-0.072	25972	NC	
A	9 Crude Oil Range Organics (	9.839	(2.500-17.179)		2350730	NC	
A	52 Mineral oil	9.839	(2.500-17.179)		2350730	204.6	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.839	(2.500-17.179)		1794244	NC	
33 C19	10.355	10.326	0.029	20523	NC	
A 64 C13-C28	10.459	(6.470-14.448)		851100	86.8	
A 17 C10-C36	10.463	(3.748-17.179)		1792393	182.9	
A 13 C9-C40	10.596	(2.500-18.693)		3036135	343.5	
A 68 Crude Oil Range Organics (	10.596	(2.500-18.693)		3036135	NC	
A 58 C16-C24	10.675	(8.558-12.793)		332833	34.0	
61 icosane		10.863			ND	
A 6 C10-C40	11.221	(3.748-18.693)		3032820	343.5	
$ 34 p-Terphenyl	11.860	11.859	0.001	327257	27.4	M
35 n-Docosane		11.867			ND	
A 18 C12-C40	12.180	(5.667-18.693)		3018820	342.3	
36 Tricosane	12.340	12.339	0.001	40235	NC	
A 66 C13-C40	12.582	(6.470-18.693)		3007333	341.0	
37 n-Tetracosane	12.801	12.793	0.008	67287	NC	
A 2 C16-C36 ORO	12.868	(8.558-17.179)		2249880	296.4	
38 C25	13.131	13.229	-0.098	100377	NC	
A 19 C16-C40	13.625	(8.558-18.693)		2935285	332.2	
46 n-Hexacosane	13.655	13.650	0.005	46574	NC	
A 20 C19-C36	13.752	(10.326-17.179)		1793134	207.8	
A 55 C23-C32	14.117	(12.339-15.895)		1177838	247.7	
39 n-Octacosane	14.438	14.448	-0.010	146905	NC	
65 C29	14.818	14.828	-0.010	178711	NC	
A 7 Motor Oil	14.986	(12.793-17.179)		1515046	248.7	
A 40 C24-C36	14.986	(12.793-17.179)		1515046	248.7	
A 50 C25-C36	15.204	(13.229-17.179)		1430594	247.3	
A 10 C22-C40	15.280	(11.867-18.693)		2040812	244.1	
A 41 C23-C40	15.516	(12.339-18.693)		2186001	266.5	
A 8 C24-C40	15.743	(12.793-18.693)		2125541	267.2	
56 Dotriacontane	15.947	15.895	0.052	139546	NC	
A 51 C28-C40	16.571	(14.448-18.693)		1747129	259.2	
A 63 C29-C40	16.760	(14.828-18.693)		1608122	260.9	
42 n-Hexatriacontane	17.255	17.179	0.076	1503770	NC	
43 C40		18.693			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

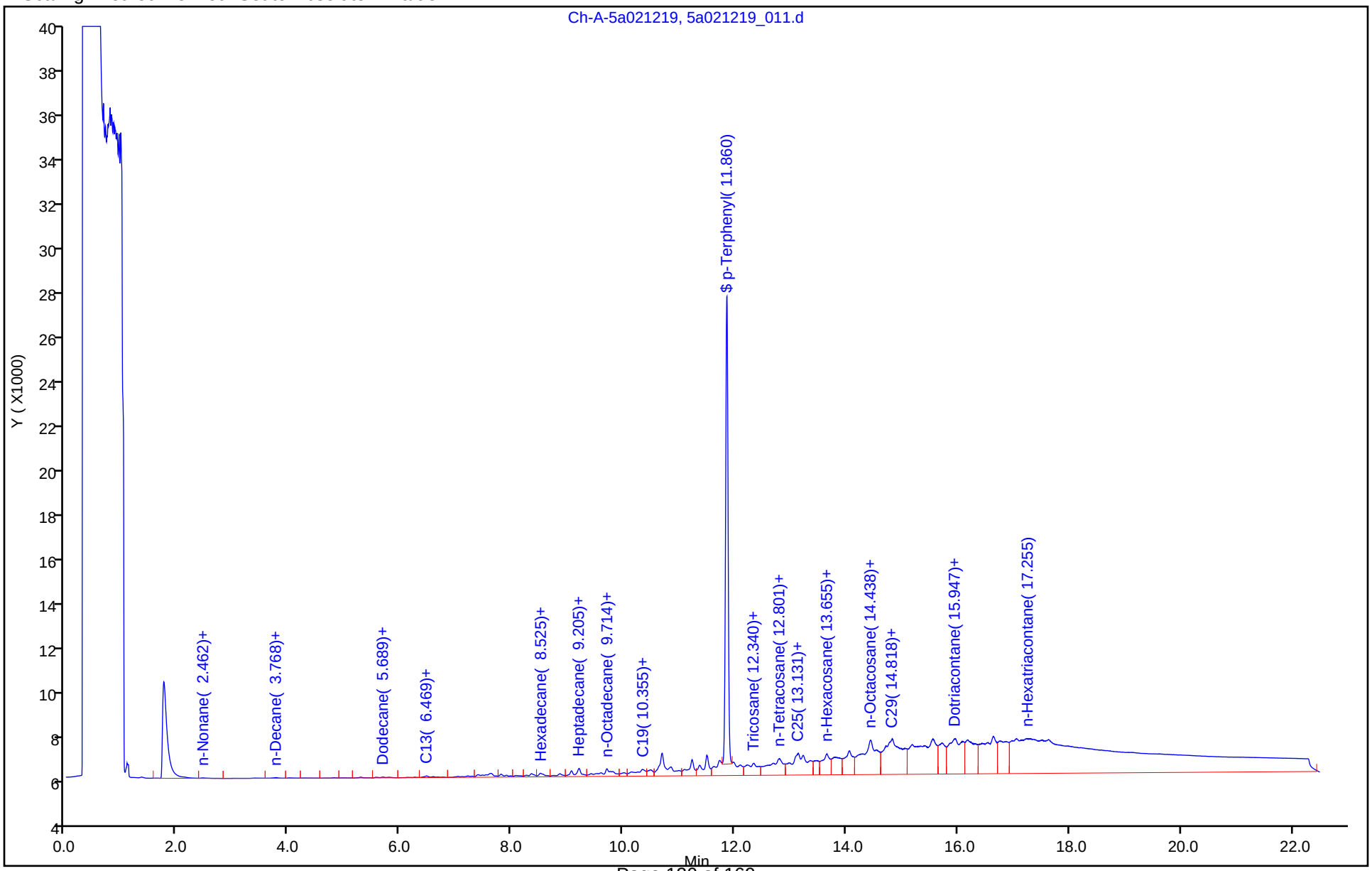
Report Date: 12-Feb-2019 14:40:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_011.d

Injection Date:	12-Feb-2019 14:04:09	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-18-F	Lab Sample ID:	720-91069-18	Worklist Smp#:	11
Client ID:	DG-R5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_011.d				
Lims ID:	720-91069-E-18-F				
Client ID:	DG-R5S-3.5-4				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 14:04:09	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 041 Name: 720-0056554-011				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 14:40:03	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 14:40:03

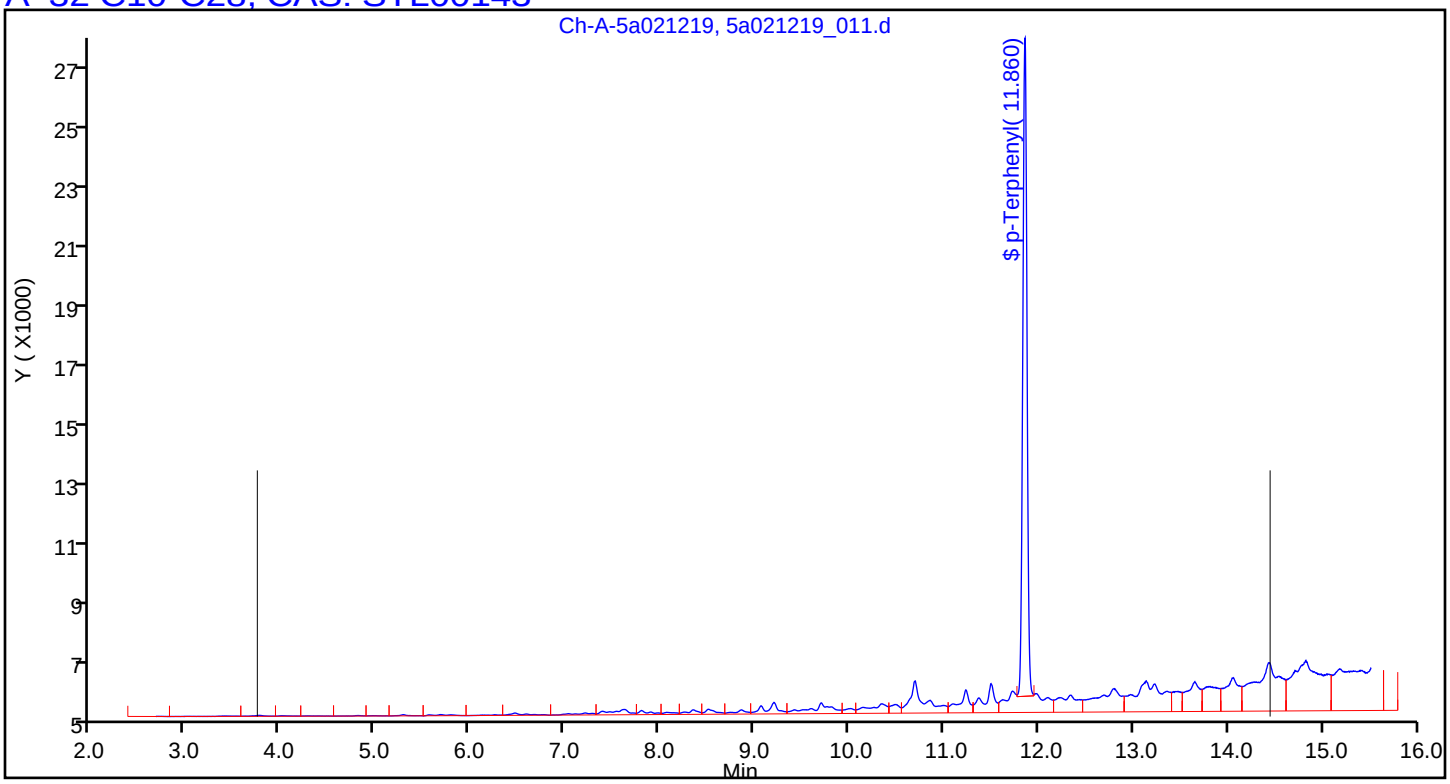
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.4	109.77

Report Date: 12-Feb-2019 14:40:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_011.d				
Injection Date:	12-Feb-2019 14:04:09	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-18-F	Lab Sample ID:	720-91069-18		
Client ID:	DG-R5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

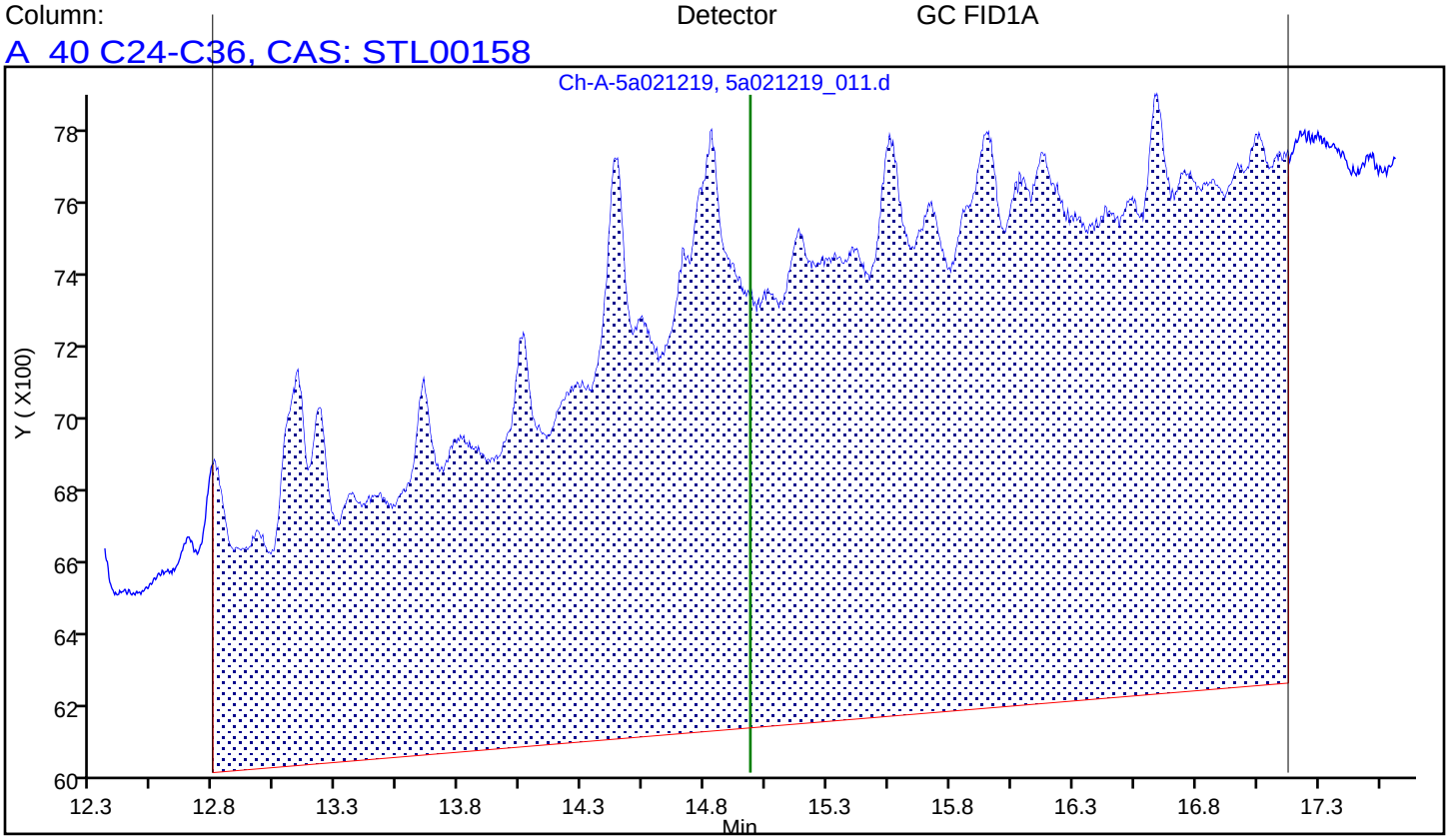


Report Date: 12-Feb-2019 14:40:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56554.b\5a021219_011.d				
Injection Date:	12-Feb-2019 14:04:09	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-18-F	Lab Sample ID:	720-91069-18		
Client ID:	DG-R5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A_40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

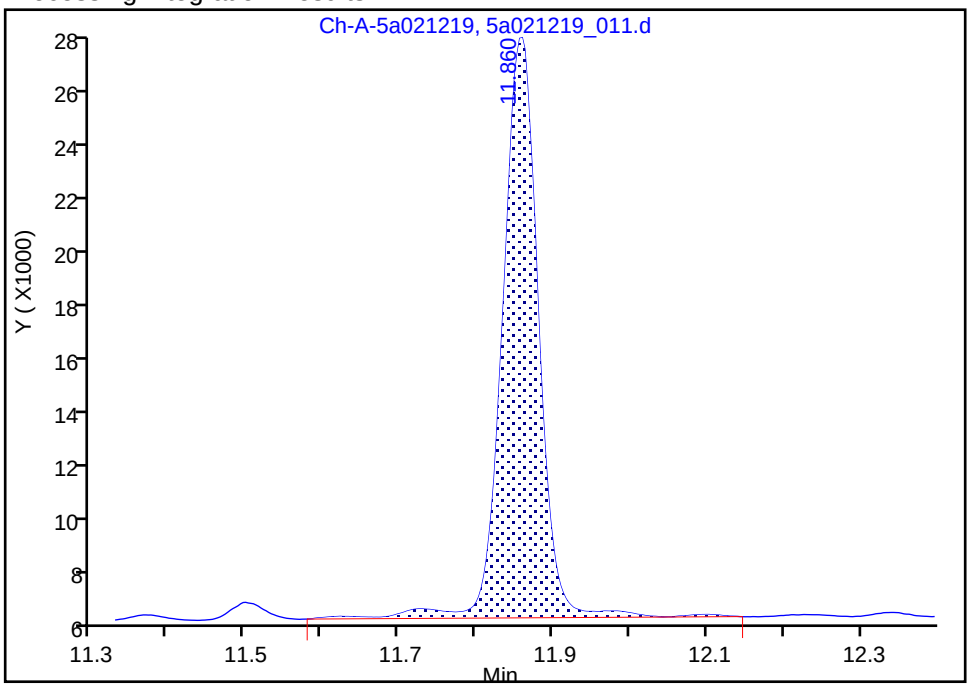
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Injection Date:	12-Feb-2019 14:04:09	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-18-F	Lab Sample ID:	720-91069-18		
Client ID:	DG-R5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

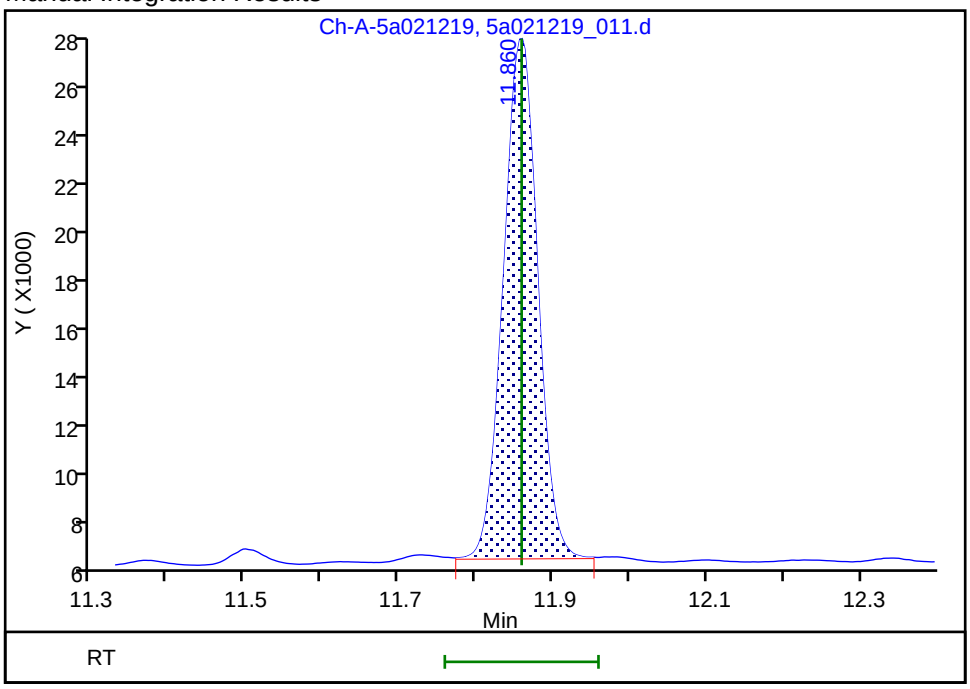
Processing Integration Results

RT: 11.86
Area: 349779
Amount: 29.331785
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 327257
Amount: 27.443134
Amount Units: mg/L



Reviewer: luj, 12-Feb-2019 14:39:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_010.d
Lims ID: 720-91069-E-19-F
Client ID: DG-AB5S-0.5-1
Sample Type: Client
Inject. Date: 12-Feb-2019 13:34:58 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 137 Name: 720-0056555-010
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m
Limit Group: DRO
Last Update: 12-Feb-2019 14:01:52 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 14:01:52

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.537	2.632	-0.095	946	NC	
	23 n-Decane	3.881	3.851	0.030	729	NC	
A	1 C9-C13	4.589	(2.632-6.545)		11191	0.9439	
A	21 Stoddard Solvent	4.589	(2.632-6.545)		11191	0.9844	
A	57 C10-C12	4.799	(3.851-5.747)		4907	0.4998	
	24 Dodecane	5.745	5.747	-0.002	605	NC	
A	3 C9 - C17	5.940	(2.632-9.248)		72294	5.26	
A	47 C9 - C18	6.227	(2.632-9.823)		101838	9.07	
A	60 C10-C16	6.235	(3.851-8.619)		56562	4.66	
A	15 Kerosene	6.505	(2.632-10.377)		127286	11.3	
A	25 C9-C19	6.505	(2.632-10.377)		127286	9.23	
	26 C13	6.515	6.545	-0.030	1555	NC	
$	27 n-Decanoic Acid (Surr)		7.174			ND	U
A	59 C12-C16	7.183	(5.747-8.619)		52260	5.32	
A	62 C10-C20	7.381	(3.851-10.911)		235715	24.0	
A	28 C9-C24	7.730	(2.632-12.828)		877541	89.4	
A	29 C9-C25	7.947	(2.632-13.262)		1106201	112.7	
A	54 C10-C23	8.114	(3.851-12.377)		694821	70.8	
A	4 C10-C24	8.340	(3.851-12.828)		874784	89.1	
A	16 C10-C25	8.557	(3.851-13.262)		1103444	112.4	
	45 Hexadecane		8.619			ND	
A	14 C10-C26	8.765	(3.851-13.680)		1184951	120.7	
A	67 C12-C22	8.828	(5.747-11.909)		599432	61.1	
A	5 Diesel	9.162	(3.851-14.472)		1901764	193.7	
A	32 C10-C28	9.162	(3.851-14.472)		1901764	193.7	
A	12 Unknown Hydrocarbons	9.162	(3.851-14.472)		1901764	NC	
A	30 C13-C22	9.227	(6.545-11.909)		596855	60.8	
	44 Heptadecane	9.266	9.248	0.018	10780	NC	
A	31 C12-C24	9.287	(5.747-12.828)		870482	88.7	
	49 n-Octadecane	9.866	9.823	0.043	13380	NC	
A	52 Mineral oil	9.908	(2.632-17.184)		4788918	429.1	
A	9 Crude Oil Range Organics (	10.012	(2.840-17.184)		4783435	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.908	(2.632-17.184)		5718960	NC	
33 C19	10.382	10.377	0.005	36764	NC	
A 64 C13-C28	10.509	(6.545-14.472)		1894885	193.0	
A 17 C10-C36	10.517	(3.851-17.184)		5716203	582.2	
A 13 C9-C40	10.661	(2.632-18.690)		5685986	700.9	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		5685986	NC	
A 58 C16-C24	10.724	(8.619-12.828)		822703	83.8	
61 icosane	10.912	10.911	0.001	25486	NC	
A 6 C10-C40	11.271	(3.851-18.690)		5682171	700.7	
$ 34 p-Terphenyl	11.883	11.883	0.000	121588	10.6	M
35 n-Docosane		11.909			ND	
A 18 C12-C40	12.218	(5.747-18.690)		5667199	699.2	
36 Tricosane	12.383	12.377	0.006	63890	NC	
A 66 C13-C40	12.618	(6.545-18.690)		5484800	678.4	
37 n-Tetracosane	12.828	12.828	0.000	81148	NC	
A 2 C16-C36 ORO	12.901	(8.619-17.184)		3884121	544.4	
38 C25	13.262	13.262	0.000	81507	NC	
A 19 C16-C40	13.655	(8.619-18.690)		5566324	687.7	
46 n-Hexacosane	13.680	13.680	0.000	201545	NC	
A 20 C19-C36	13.781	(10.377-17.184)		3474545	445.6	
A 55 C23-C32	14.144	(12.377-15.911)		2549367	620.7	
39 n-Octacosane	14.416	14.472	-0.056	124388	NC	
65 C29	14.853	14.849	0.004	318468	NC	
A 40 C24-C36	15.006	(12.828-17.184)		3338839	584.9	
A 7 Motor Oil	15.006	(12.828-17.184)		3338839	584.9	
A 50 C25-C36	15.223	(13.262-17.184)		3121687	580.1	
A 10 C22-C40	15.299	(11.909-18.690)		4410364	556.7	
A 41 C23-C40	15.534	(12.377-18.690)		4338762	561.2	
A 8 C24-C40	15.759	(12.828-18.690)		4143473	555.5	
56 Dotriacontane	15.909	15.911	-0.002	169432	NC	
A 51 C28-C40	16.581	(14.472-18.690)		3145931	618.2	
A 63 C29-C40	16.770	(14.849-18.690)		2798758	616.1	
42 n-Hexatriacontane		17.184			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

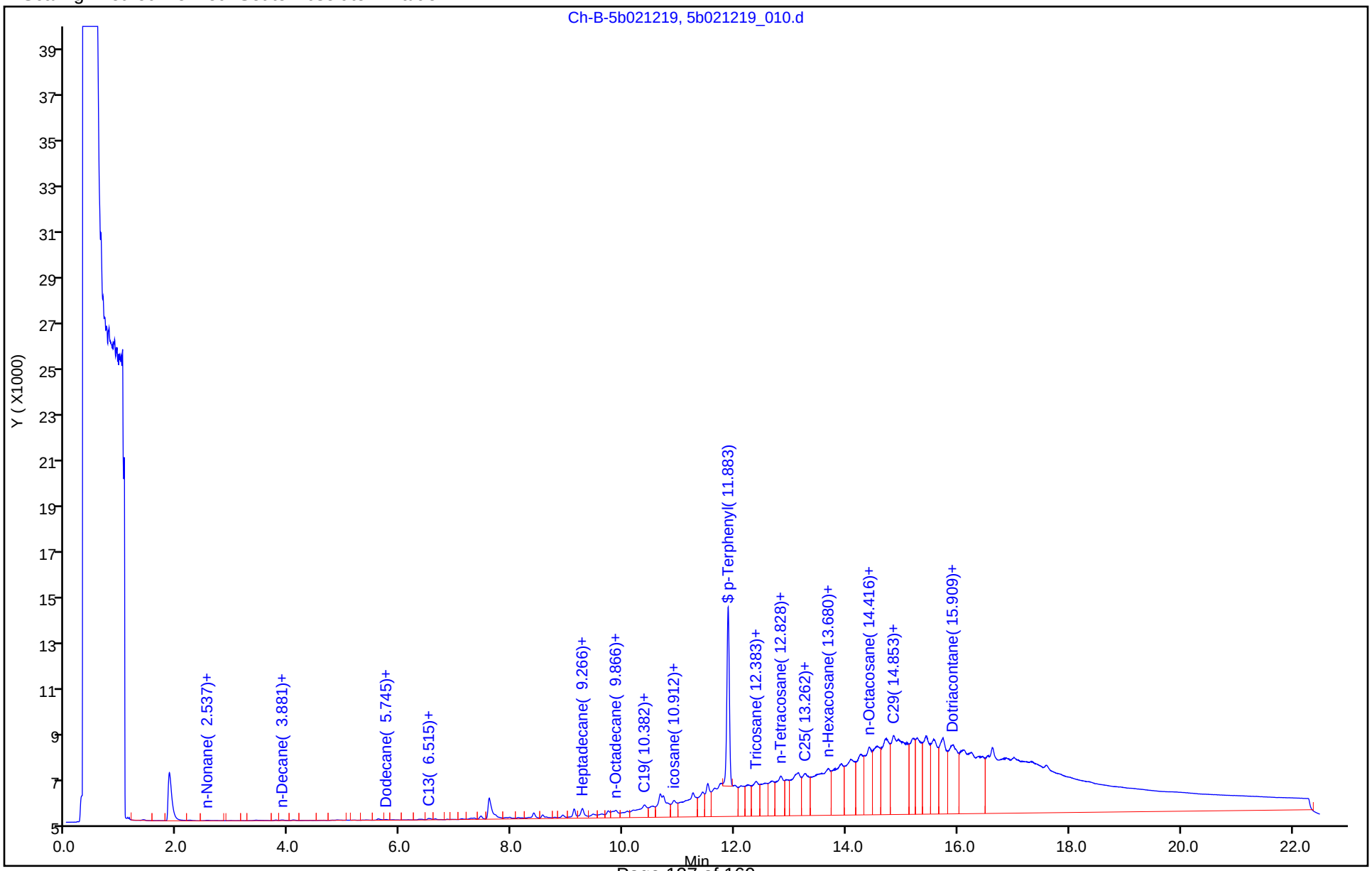
Report Date: 12-Feb-2019 14:01:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_010.d

Injection Date:	12-Feb-2019 13:34:58	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-19-F	Lab Sample ID:	720-91069-19	Worklist Smp#:	10
Client ID:	DG-AB5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_010.d				
Lims ID:	720-91069-E-19-F				
Client ID:	DG-AB5S-0.5-1				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 13:34:58	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 137 Name: 720-0056555-010				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 14:01:52	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 14:01:52

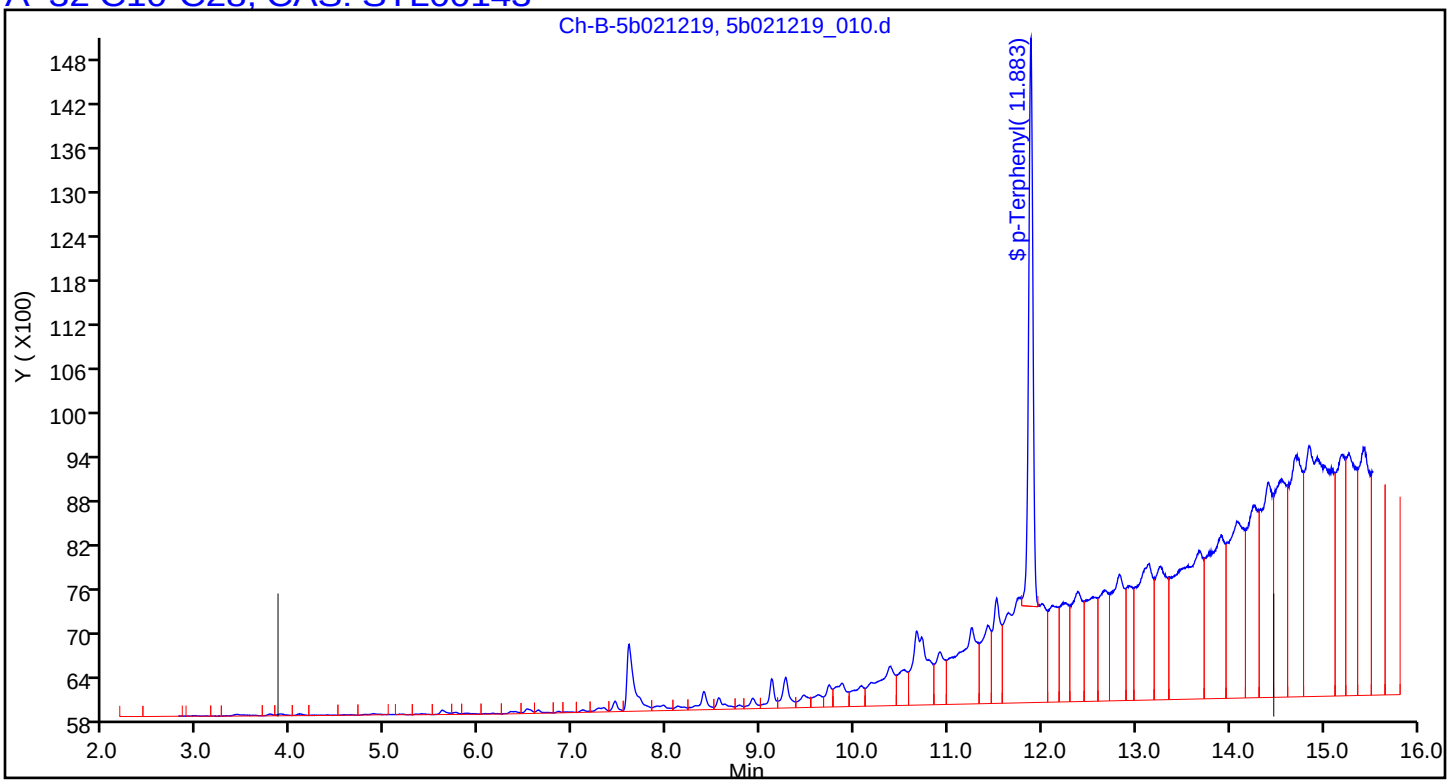
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	10.6	84.69

Report Date: 12-Feb-2019 14:01:54 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_010.d				
Injection Date:	12-Feb-2019 13:34:58	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-19-F	Lab Sample ID:	720-91069-19		
Client ID:	DG-AB5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

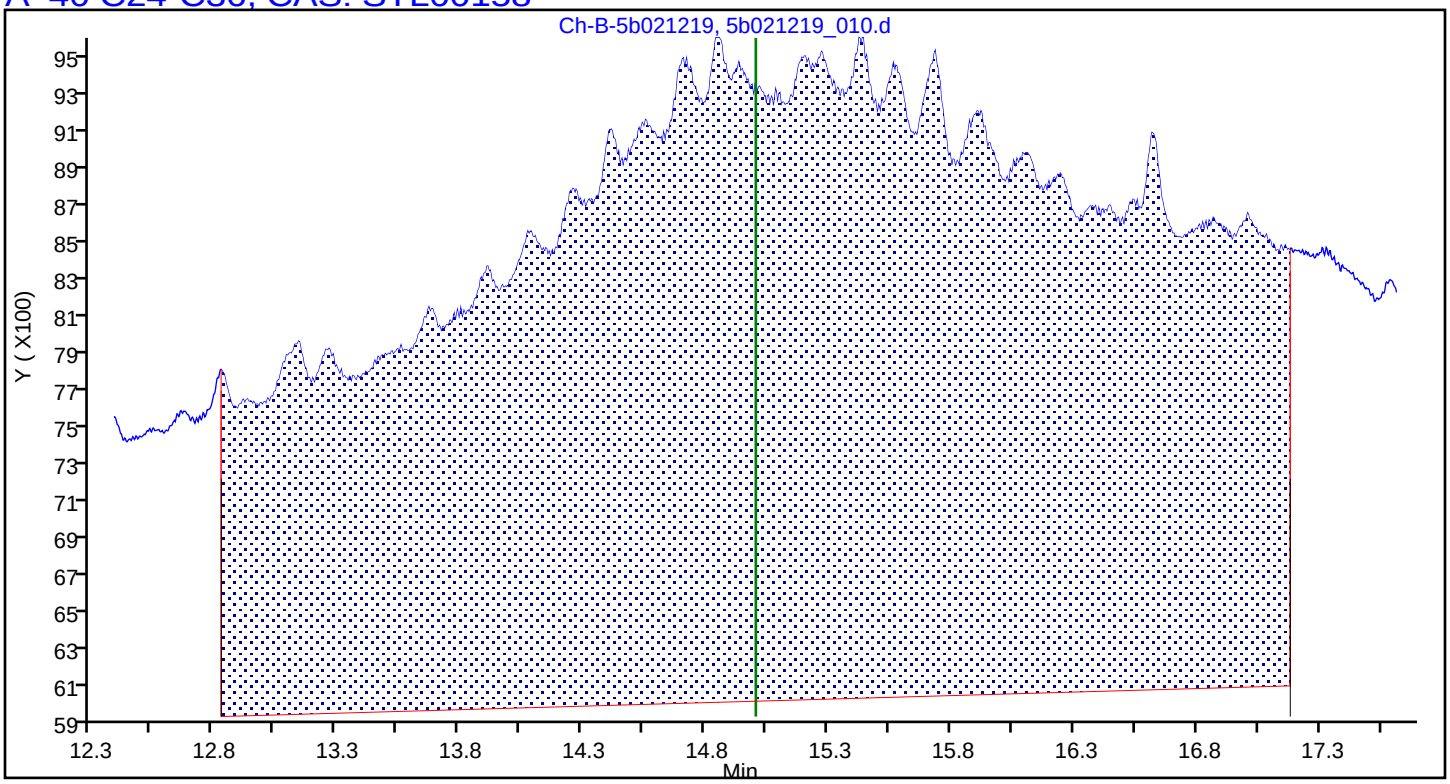


Report Date: 12-Feb-2019 14:01:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_010.d				
Injection Date:	12-Feb-2019 13:34:58	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-19-F	Lab Sample ID:	720-91069-19		
Client ID:	DG-AB5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

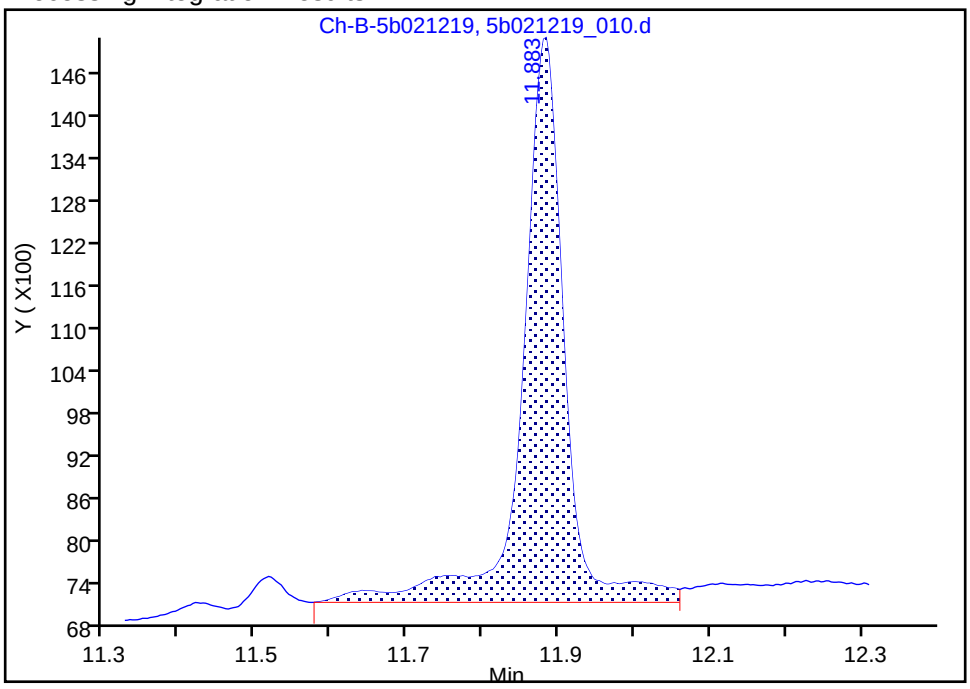
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_010.d				
Injection Date:	12-Feb-2019 13:34:58	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-19-F	Lab Sample ID:	720-91069-19		
Client ID:	DG-AB5S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

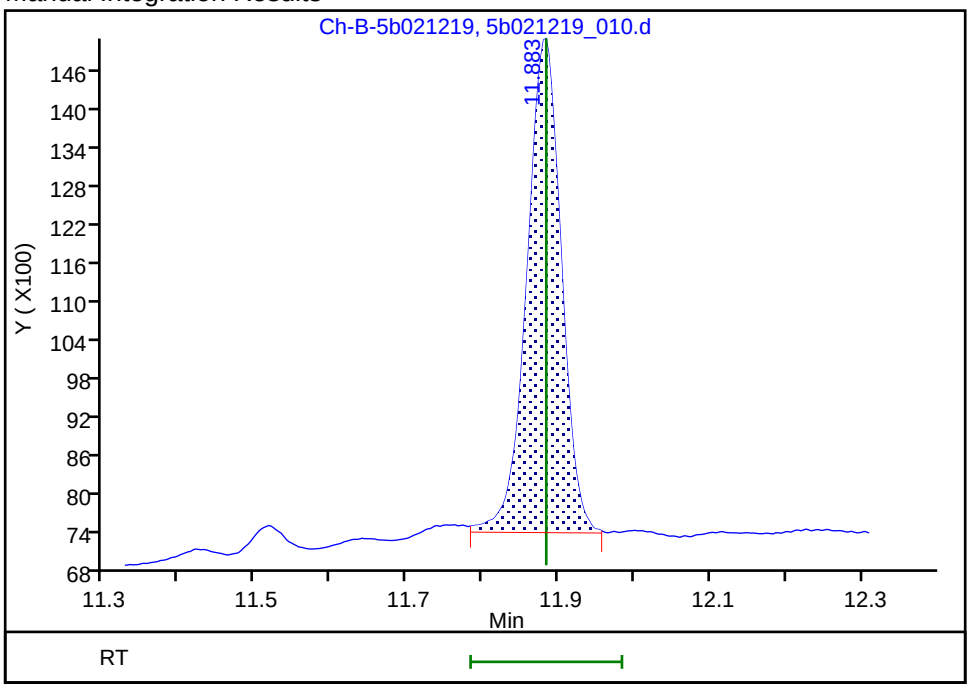
Processing Integration Results

RT: 11.88
Area: 154861
Amount: 13.483128
Amount Units: mg/L



Manual Integration Results

RT: 11.88
Area: 121588
Amount: 10.586181
Amount Units: mg/L



Reviewer: luj, 12-Feb-2019 14:01:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_014.d
Lims ID: 720-91069-E-20-G
Client ID: DG-AB5S-3.5-4
Sample Type: Client
Inject. Date: 12-Feb-2019 15:31:46 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 103 Name: 720-0056555-014
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m
Limit Group: DRO
Last Update: 12-Feb-2019 15:56:42 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 15:56:42

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.714	2.632	0.082	168	NC	
	23 n-Decane	3.889	3.851	0.038	902	NC	
A	1 C9-C13	4.589	(2.632-6.545)		18098	1.53	
A	21 Stoddard Solvent	4.589	(2.632-6.545)		18098	1.59	
A	57 C10-C12	4.799	(3.851-5.747)		10053	1.02	
	24 Dodecane	5.742	5.747	-0.005	590	NC	
A	3 C9 - C17	5.940	(2.632-9.248)		56660	4.12	
A	47 C9 - C18	6.227	(2.632-9.823)		78594	7.00	
A	60 C10-C16	6.235	(3.851-8.619)		45116	3.72	
A	15 Kerosene	6.505	(2.632-10.377)		97481	8.66	
A	25 C9-C19	6.505	(2.632-10.377)		97481	7.07	
	26 C13	6.516	6.545	-0.029	658	NC	
$	27 n-Decanoic Acid (Surr)		7.174			ND	U
A	59 C12-C16	7.183	(5.747-8.619)		35653	3.63	
A	62 C10-C20	7.381	(3.851-10.911)		128773	13.1	
A	28 C9-C24	7.730	(2.632-12.828)		292254	29.8	
A	29 C9-C25	7.947	(2.632-13.262)		337834	34.4	
A	54 C10-C23	8.114	(3.851-12.377)		253328	25.8	
A	4 C10-C24	8.340	(3.851-12.828)		287674	29.3	
A	16 C10-C25	8.557	(3.851-13.262)		333254	33.9	
	45 Hexadecane		8.619			ND	
A	14 C10-C26	8.765	(3.851-13.680)		397072	40.4	
A	67 C12-C22	8.828	(5.747-11.909)		191231	19.5	
A	5 Diesel	9.162	(3.851-14.472)		527168	53.7	
A	32 C10-C28	9.162	(3.851-14.472)		527168	53.7	
A	12 Unknown Hydrocarbons	9.162	(3.851-14.472)		527168	NC	
A	30 C13-C22	9.227	(6.545-11.909)		187834	19.1	
	44 Heptadecane	9.268	9.248	0.020	7954	NC	
A	31 C12-C24	9.287	(5.747-12.828)		278211	28.3	
	49 n-Octadecane	9.787	9.823	-0.036	5749	NC	
A	52 Mineral oil	9.908	(2.632-17.184)		1885599	168.9	
A	9 Crude Oil Range Organics (	9.903	(2.632-17.173)		1881809	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.908	(2.632-17.184)		1276553	NC	
33 C19	10.387	10.377	0.010	4247	NC	
A 64 C13-C28	10.509	(6.545-14.472)		514308	52.4	
A 17 C10-C36	10.512	(3.851-17.173)		1271973	129.6	
A 13 C9-C40	10.661	(2.632-18.690)		2396546	269.8	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		2396546	NC	
A 58 C16-C24	10.724	(8.619-12.828)		245783	25.0	
61 icosane	10.914	10.911	0.003	7622	NC	
A 6 C10-C40	11.271	(3.851-18.690)		2389733	269.2	
$ 34 p-Terphenyl	11.883	11.883	0.000	293559	25.6	
35 n-Docosane		11.909			ND	
A 18 C12-C40	12.218	(5.747-18.690)		2365232	266.5	
36 Tricosane	12.379	12.377	0.002	12971	NC	
A 66 C13-C40	12.618	(6.545-18.690)		2132848	238.4	
37 n-Tetracosane	12.829	12.828	0.001	15094	NC	
A 2 C16-C36 ORO	12.901	(8.619-17.184)		1401528	196.5	
38 C25	13.264	13.262	0.002	18561	NC	
A 19 C16-C40	13.655	(8.619-18.690)		2272275	255.5	
46 n-Hexacosane	13.679	13.680	-0.001	14895	NC	
A 20 C19-C36	13.781	(10.377-17.184)		895807	114.9	
A 55 C23-C32	14.144	(12.377-15.911)		674573	164.2	
39 n-Octacosane	14.472	14.472	0.000	15335	NC	
65 C29	14.851	14.849	0.002	69546	NC	
A 40 C24-C36	15.006	(12.828-17.184)		1064498	186.5	
A 7 Motor Oil	15.006	(12.828-17.184)		1064498	186.5	
A 50 C25-C36	15.223	(13.262-17.184)		1017449	189.1	
A 10 C22-C40	15.299	(11.909-18.690)		1303316	164.5	
A 41 C23-C40	15.534	(12.377-18.690)		1527582	197.6	
A 8 C24-C40	15.759	(12.828-18.690)		1488887	199.6	
56 Dotriacontane	15.913	15.911	0.002	16079	NC	
A 51 C28-C40	16.581	(14.472-18.690)		1249589	223.2	
A 63 C29-C40	16.770	(14.849-18.690)		1156024	229.8	
42 n-Hexatriacontane		17.184			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

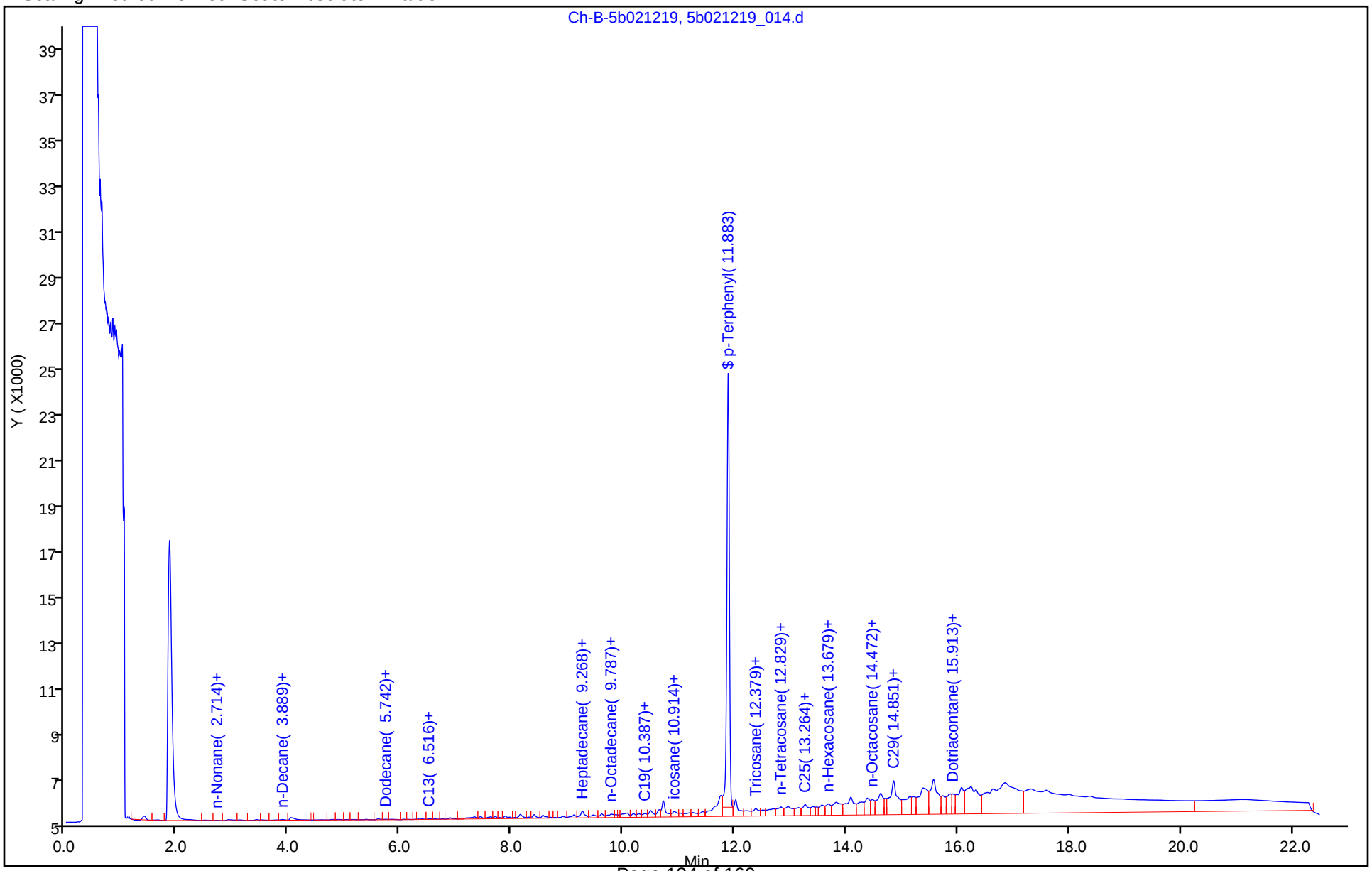
Report Date: 12-Feb-2019 15:56:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_014.d

Injection Date:	12-Feb-2019 15:31:46	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-20-G	Lab Sample ID:	720-91069-20	Worklist Smp#:	14
Client ID:	DG-AB5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_014.d				
Lims ID:	720-91069-E-20-G				
Client ID:	DG-AB5S-3.5-4				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 15:31:46	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 103 Name: 720-0056555-014				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 15:56:42	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 15:56:42

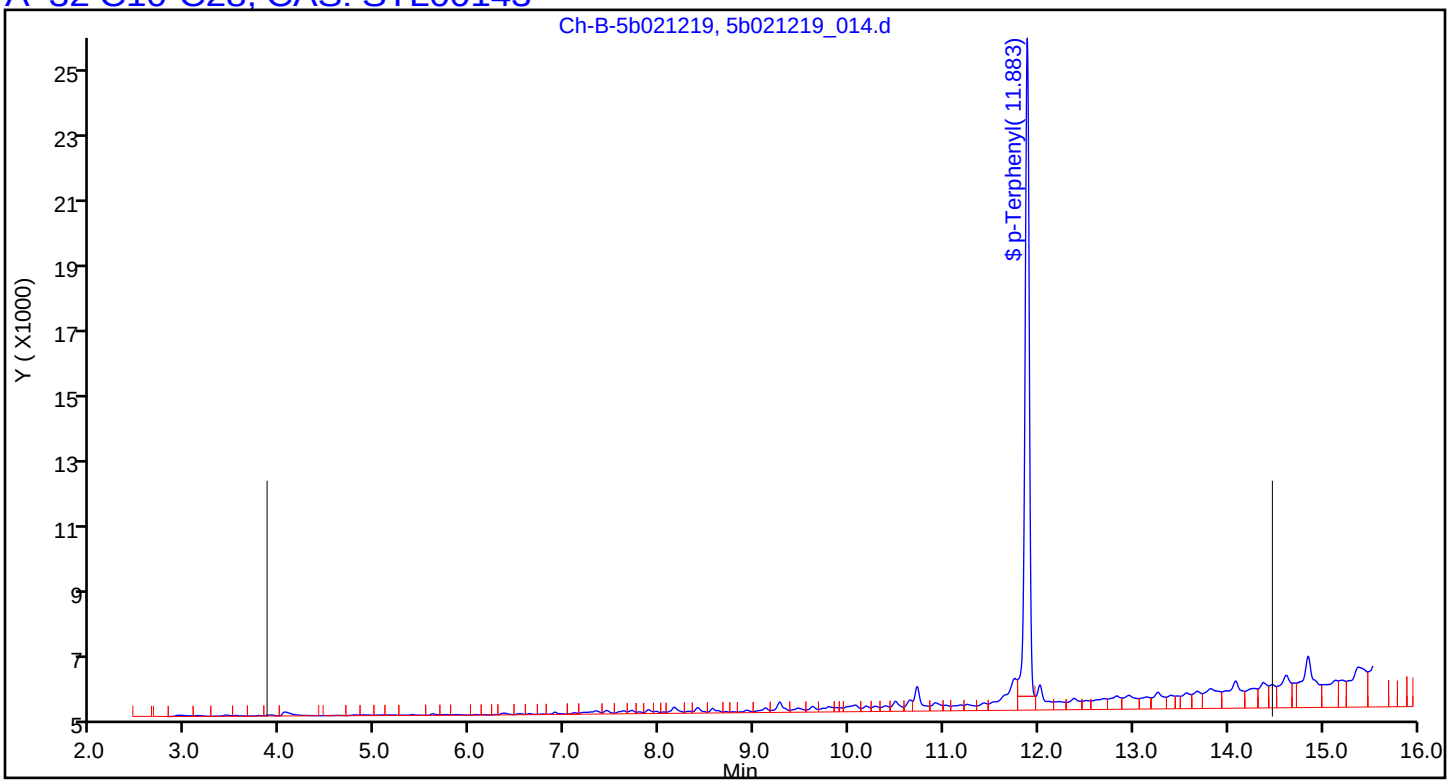
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	25.6	102.24

Report Date: 12-Feb-2019 15:56:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_014.d				
Injection Date:	12-Feb-2019 15:31:46	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-20-G	Lab Sample ID:	720-91069-20		
Client ID:	DG-AB5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

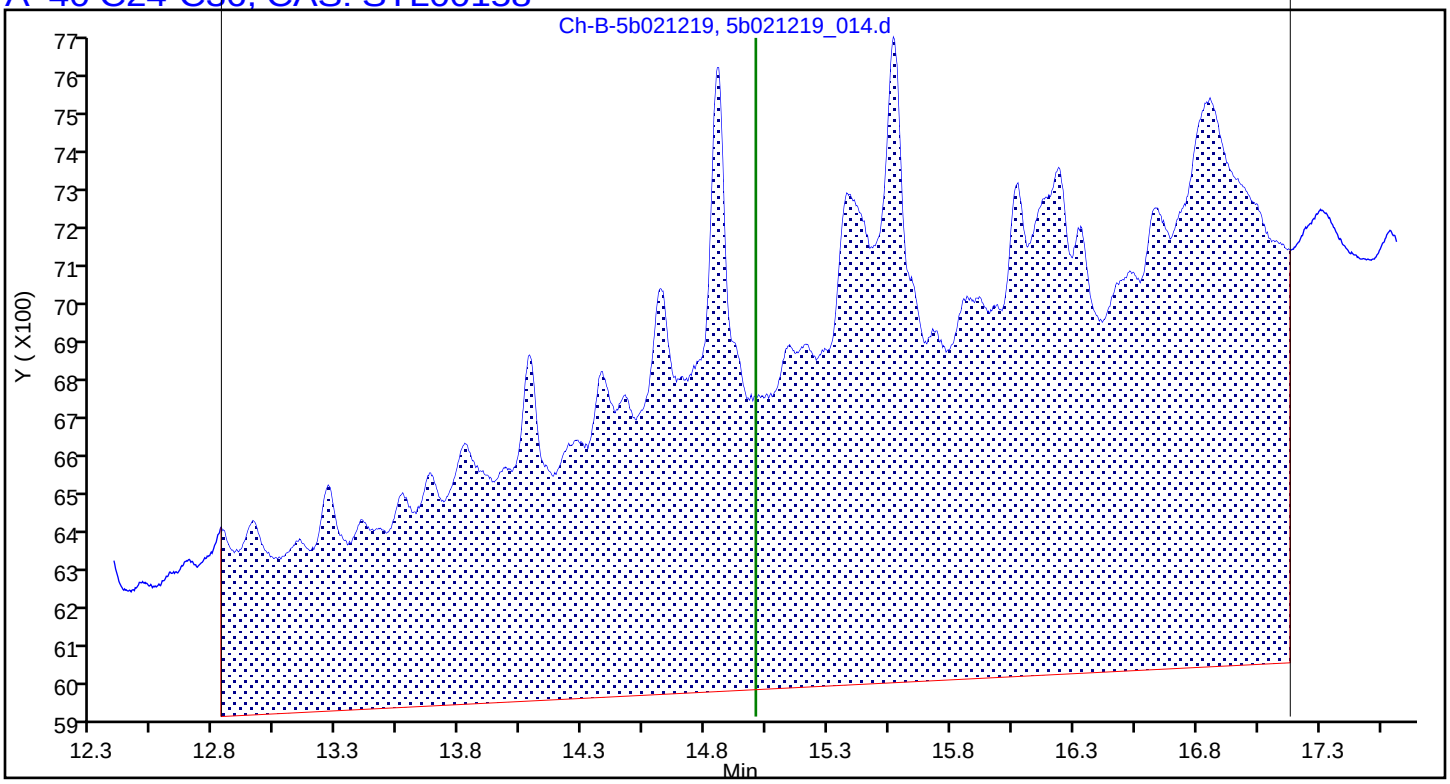


Report Date: 12-Feb-2019 15:56:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_014.d				
Injection Date:	12-Feb-2019 15:31:46	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-20-G	Lab Sample ID:	720-91069-20		
Client ID:	DG-AB5S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_020.d
Lims ID: 720-91069-E-22-F
Client ID: DUP-31
Sample Type: Client
Inject. Date: 05-Feb-2019 18:09:52 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 001 Name: 720-0056440-020
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m
Limit Group: DRO
Last Update: 06-Feb-2019 11:38:28 Calib Date: 05-Feb-2019 09:42:50
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0327

First Level Reviewer: luj Date: 06-Feb-2019 11:38:28

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.460	2.511	-0.051	833	NC	
	23 n-Decane	3.778	3.756	0.022	1667	NC	
A	1 C9-C13	4.496	(2.511-6.481)		18930	NC	
A	21 Stoddard Solvent	4.496	(2.511-6.481)		18930	NC	
A	57 C10-C12	4.716	(3.756-5.677)		6550	0.6683	
	24 Dodecane	5.681	5.677	0.004	3648	NC	
A	3 C9 - C17	5.859	(2.511-9.207)		106656	8.80	
A	47 C9 - C18	6.155	(2.511-9.799)		128621	11.9	
A	60 C10-C16	6.162	(3.756-8.569)		74697	6.78	
A	15 Kerosene	6.424	(2.511-10.337)		194605	18.0	
A	25 C9-C19	6.424	(2.511-10.337)		194605	15.9	
	26 C13	6.466	6.481	-0.015	6114	NC	
A	59 C12-C16	7.123	(5.677-8.569)		68147	6.95	
$	27 n-Decanoic Acid (Surr)		7.132			ND	U
A	62 C10-C20	7.314	(3.756-10.872)		440202	44.9	
A	28 C9-C24	7.655	(2.511-12.800)		1206606	123.1	
A	29 C9-C25	7.873	(2.511-13.236)		1854461	189.2	
A	54 C10-C23	8.051	(3.756-12.347)		971524	99.1	
A	4 C10-C24	8.278	(3.756-12.800)		1203988	122.8	
A	16 C10-C25	8.496	(3.756-13.236)		1851843	188.9	
	45 Hexadecane	8.517	8.569	-0.052	11446	NC	
A	14 C10-C26	8.706	(3.756-13.656)		1851843	188.9	
A	67 C12-C22	8.776	(5.677-11.875)		964974	98.5	
A	12 Unknown Hydrocarbons	9.104	(3.756-14.453)		2836446	NC	M
A	32 C10-C28	9.104	(3.756-14.453)		2836446	289.4	M
A	5 Diesel	9.104	(3.756-14.453)		2836446	289.4	M
A	30 C13-C22	9.178	(6.481-11.875)		961326	98.1	
	44 Heptadecane	9.215	9.207	0.008	21965	NC	
A	31 C12-C24	9.239	(5.677-12.800)		1197438	122.2	
	49 n-Octadecane	9.813	9.799	0.014	65984	NC	
A	9 Crude Oil Range Organics (	9.844	(2.511-17.177)		6207788	NC	
A	52 Mineral oil	9.844	(2.511-17.177)		6207788	540.4	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.844	(2.511-17.177)		5615897	NC	M
33 C19	10.349	10.337	0.012	89097	NC	
A 17 C10-C36	10.466	(3.756-17.177)		5613279	572.7	M
A 64 C13-C28	10.467	(6.481-14.453)		2826248	288.4	M
A 13 C9-C40	10.600	(2.511-18.689)		7169319	870.3	
A 68 Crude Oil Range Organics (	10.600	(2.511-18.689)		7169319	NC	
A 58 C16-C24	10.685	(8.569-12.800)		1140737	116.4	
61 icosane	10.872	10.872	0.000	36755	NC	
A 6 C10-C40	11.222	(3.756-18.689)		7164101	870.0	
$ 34 p-Terphenyl	11.857	11.864	-0.007	271519	22.8	M
35 n-Docosane		11.875			ND	
A 18 C12-C40	12.183	(5.677-18.689)		7141563	867.5	
36 Tricosane	12.352	12.347	0.005	232464	NC	
A 66 C13-C40	12.585	(6.481-18.689)		7123936	865.5	
37 n-Tetracosane	12.800	12.800	0.000	337707	NC	
A 2 C16-C36 ORO	12.873	(8.569-17.177)		6052665	797.5	
38 C25	13.235	13.236	-0.001	310148	NC	
A 19 C16-C40	13.629	(8.569-18.689)		7014196	852.2	
46 n-Hexacosane	13.658	13.656	0.002	298562	NC	
A 20 C19-C36	13.757	(10.337-17.177)		5342343	619.1	
A 55 C23-C32	14.122	(12.347-15.897)		3708135	779.8	
39 n-Octacosane	14.410	14.453	-0.043	296089	NC	M
65 C29	14.833	14.831	0.002	627575	NC	
A 7 Motor Oil	14.988	(12.800-17.177)		4222175	693.1	
A 40 C24-C36	14.988	(12.800-17.177)		4222175	693.1	
A 50 C25-C36	15.206	(13.236-17.177)		3903113	674.6	
A 10 C22-C40	15.282	(11.875-18.689)		5432569	649.8	
A 41 C23-C40	15.518	(12.347-18.689)		5375725	655.5	
A 8 C24-C40	15.745	(12.800-18.689)		5083826	639.1	
56 Dotriacontane	15.895	15.897	-0.002	653772	NC	
A 51 C28-C40	16.571	(14.453-18.689)		3644323	585.2	
A 63 C29-C40	16.760	(14.831-18.689)		3166893	557.7	
42 n-Hexatriacontane	17.240	17.177	0.063	265771	NC	
43 C40		18.689			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

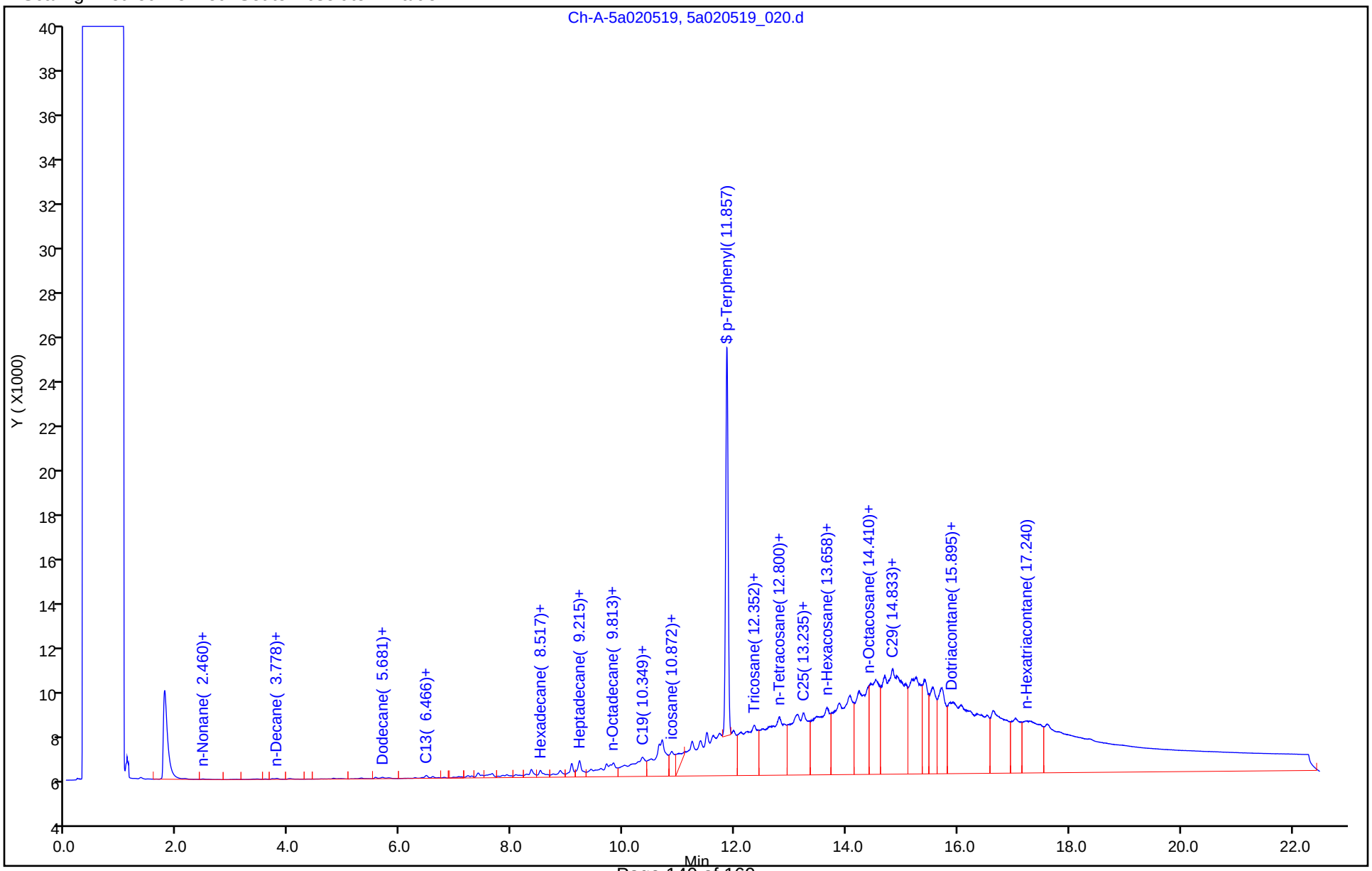
Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 06-Feb-2019 11:38:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_020.d				
Injection Date:	05-Feb-2019 18:09:52	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-22-F	Lab Sample ID:	720-91069-22	Worklist Smp#:	20
Client ID:	DUP-31				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5A	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_020.d				
Lims ID:	720-91069-E-22-F				
Client ID:	DUP-31				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 18:09:52	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 001 Name: 720-0056440-020				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\DRO5A.m				
Limit Group:	DRO				
Last Update:	06-Feb-2019 11:38:28	Calib Date:	05-Feb-2019 09:42:50		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0327				

First Level Reviewer: luj Date: 06-Feb-2019 11:38:28

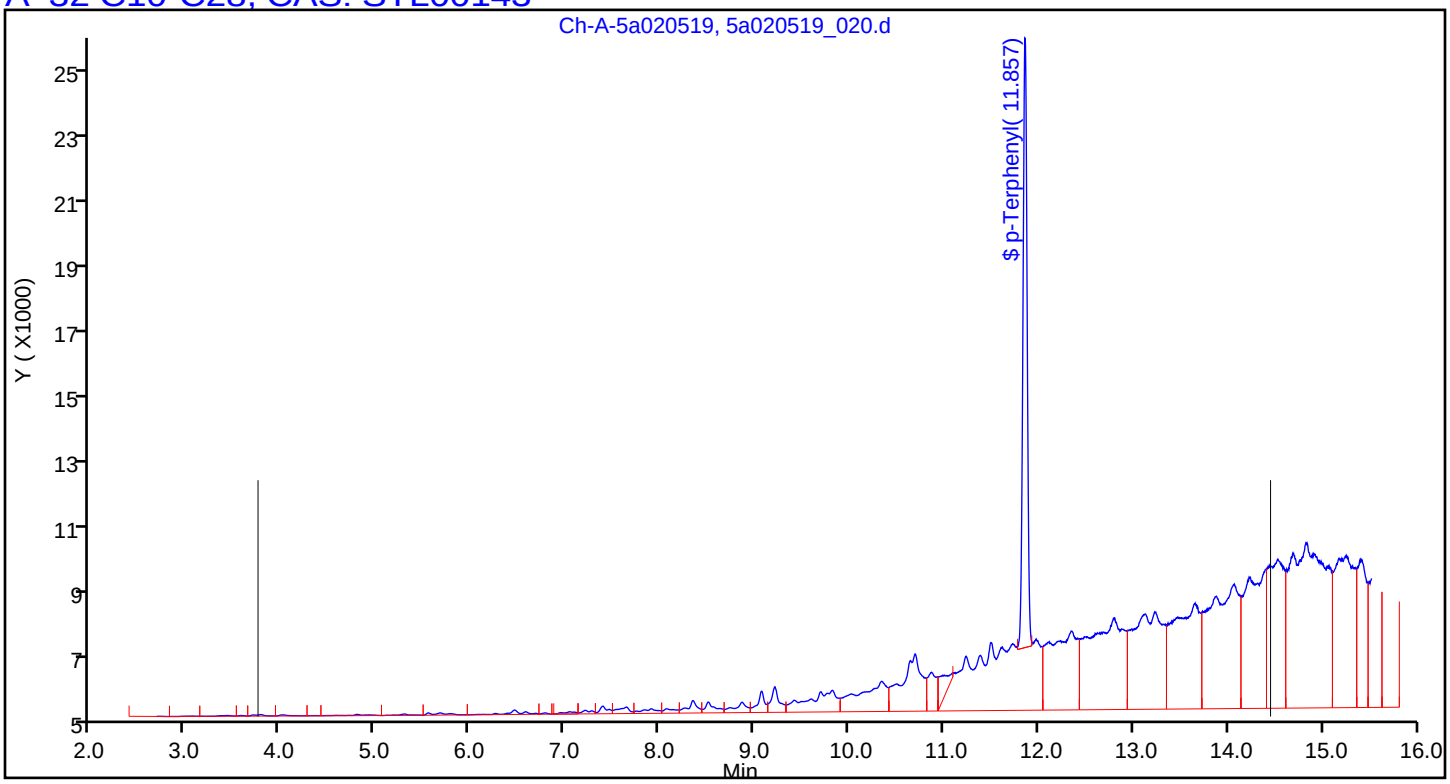
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	22.8	91.08

Report Date: 06-Feb-2019 11:38:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_020.d				
Injection Date:	05-Feb-2019 18:09:52	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-22-F	Lab Sample ID:	720-91069-22		
Client ID:	DUP-31				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

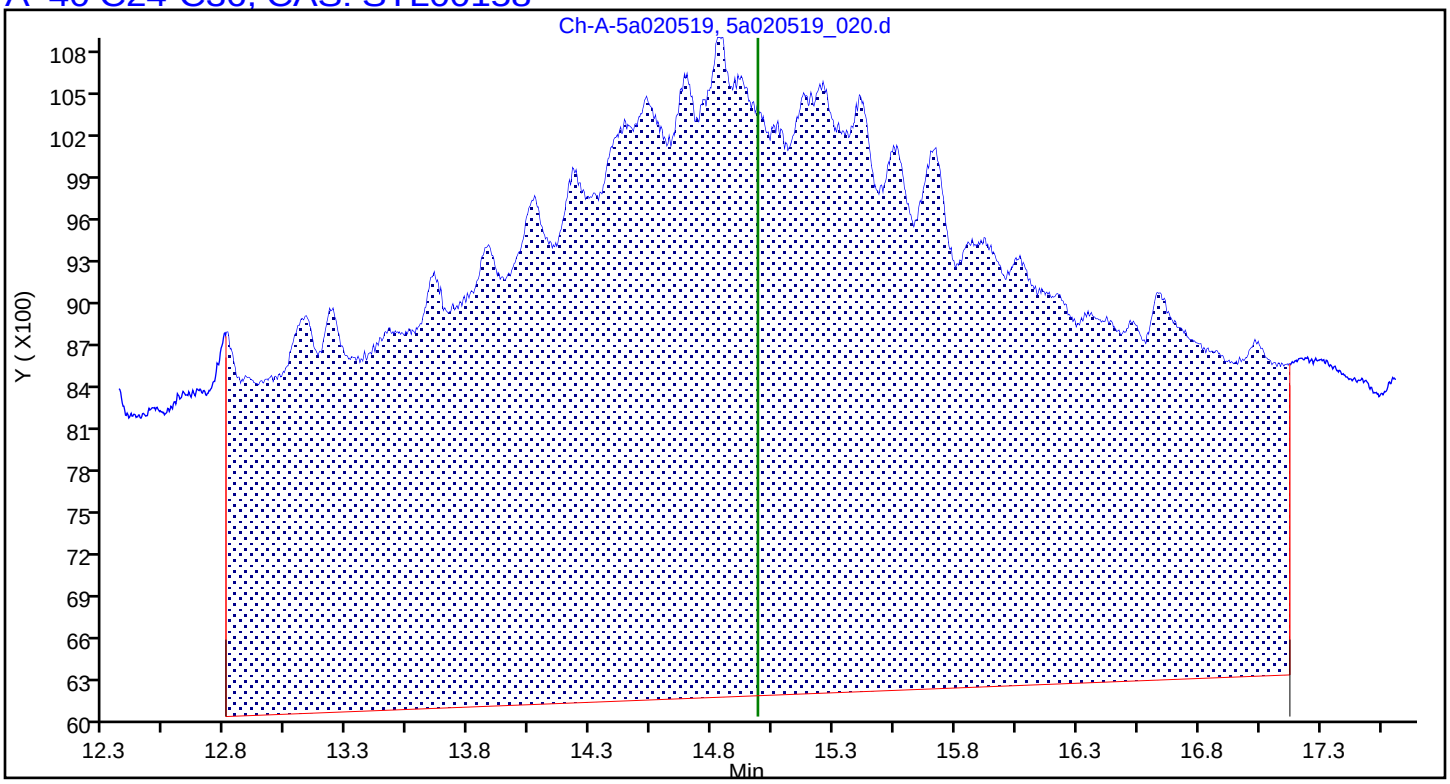


Report Date: 06-Feb-2019 11:38:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_020.d				
Injection Date:	05-Feb-2019 18:09:52	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-22-F	Lab Sample ID:	720-91069-22		
Client ID:	DUP-31				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

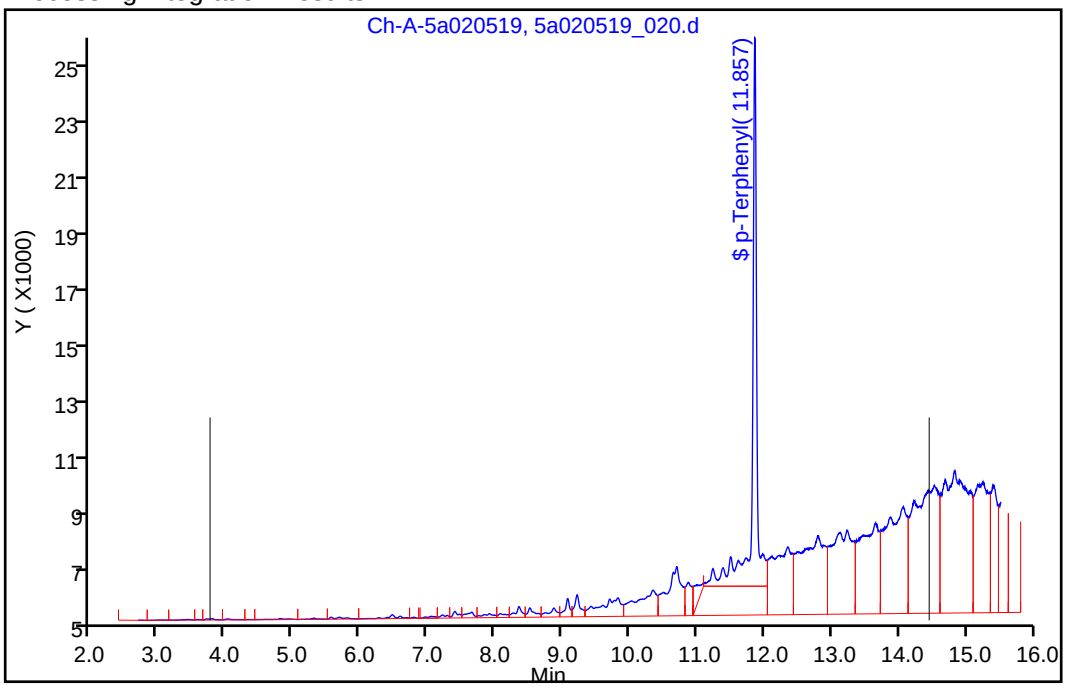
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_020.d				
Injection Date:	05-Feb-2019 18:09:52	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-22-F	Lab Sample ID:	720-91069-22		
Client ID:	DUP-31				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.104, CAS: STL00143

Signal: 1

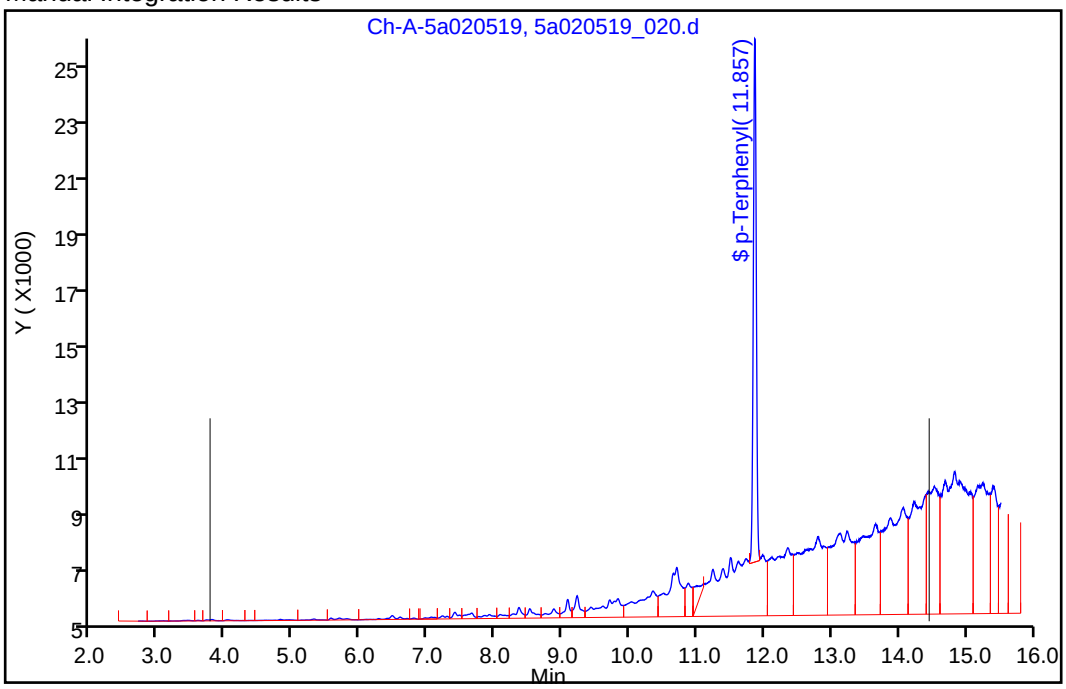
Processing Integration Results

RT: 9.10
Response: 2357582
Amount: 240.5447



Manual Integration Results

RT: 9.10
Response: 2836446
Amount: 289.4033



Reviewer: luj, 06-Feb-2019 11:38:07

Audit Action: Split an Integrated Peak Audit Reason: Wrong Peak

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

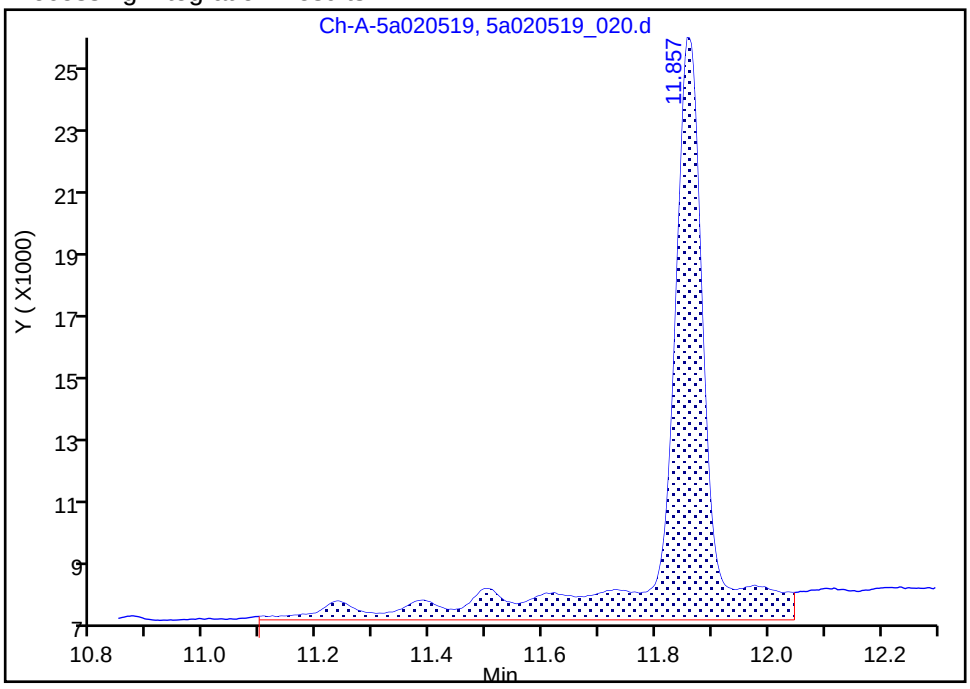
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190205-56440.b\5a020519_020.d				
Injection Date:	05-Feb-2019 18:09:52	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-22-F	Lab Sample ID:	720-91069-22		
Client ID:	DUP-31				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5A	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4

Signal: 1

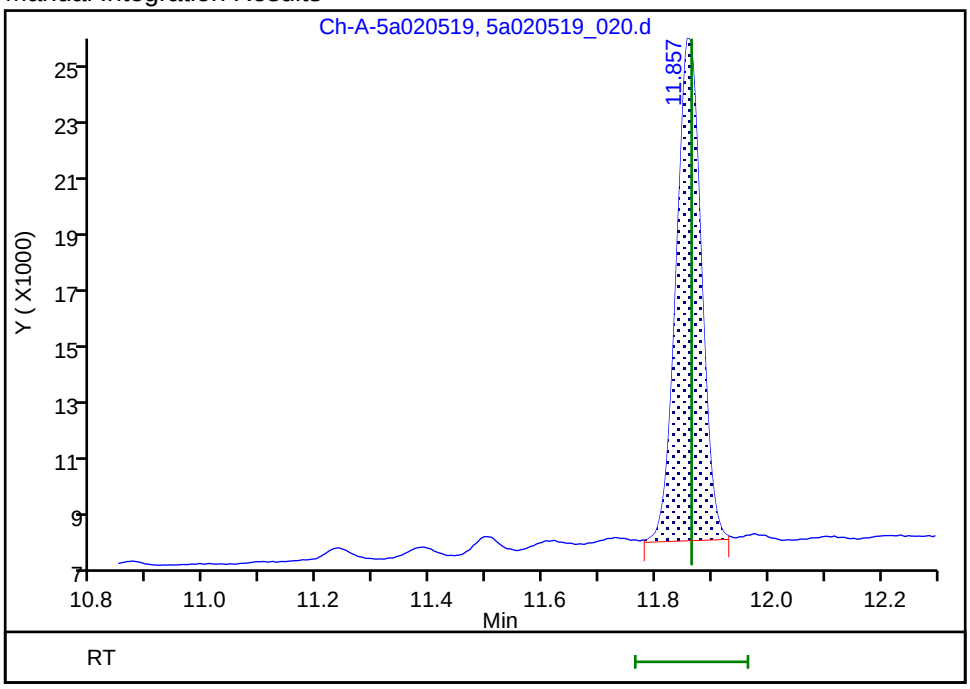
Processing Integration Results

RT: 11.86
Area: 451505
Amount: 37.862329
Amount Units: mg/L



Manual Integration Results

RT: 11.86
Area: 271519
Amount: 22.769054
Amount Units: mg/L



Reviewer: luj, 06-Feb-2019 11:38:22

Audit Action: Manually Integrated Audit Reason: Wrong Peak

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_012.d
Lims ID: 720-91069-E-23-F
Client ID: DUP-29
Sample Type: Client
Inject. Date: 12-Feb-2019 14:33:30 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 141 Name: 720-0056555-012
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m
Limit Group: DRO
Last Update: 12-Feb-2019 15:33:45 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 15:33:45

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.686	2.632	0.054	310	NC	
	23 n-Decane	3.880	3.851	0.029	1386	NC	
A	1 C9-C13	4.589	(2.632-6.545)		16071	1.36	
A	21 Stoddard Solvent	4.589	(2.632-6.545)		16071	1.41	
A	57 C10-C12	4.799	(3.851-5.747)		7950	0.8097	
	24 Dodecane	5.743	5.747	-0.004	859	NC	
A	3 C9 - C17	5.940	(2.632-9.248)		42710	3.11	
A	47 C9 - C18	6.227	(2.632-9.823)		63249	5.63	
A	60 C10-C16	6.235	(3.851-8.619)		32718	2.70	
A	15 Kerosene	6.505	(2.632-10.377)		80124	7.12	
A	25 C9-C19	6.505	(2.632-10.377)		80124	5.81	
	26 C13	6.511	6.545	-0.034	1597	NC	
$	27 n-Decanoic Acid (Surr)		7.174			ND	U
A	59 C12-C16	7.183	(5.747-8.619)		25627	2.61	
A	62 C10-C20	7.381	(3.851-10.911)		122939	12.5	
A	28 C9-C24	7.730	(2.632-12.828)		393767	40.1	
A	29 C9-C25	7.947	(2.632-13.262)		481708	49.1	
A	54 C10-C23	8.114	(3.851-12.377)		303168	30.9	
A	4 C10-C24	8.340	(3.851-12.828)		389488	39.7	
A	16 C10-C25	8.557	(3.851-13.262)		477429	48.6	
	45 Hexadecane	8.615	8.619	-0.004	1218	NC	
A	14 C10-C26	8.765	(3.851-13.680)		555928	56.6	
A	67 C12-C22	8.828	(5.747-11.909)		230649	23.5	
A	5 Diesel	9.162	(3.851-14.472)		788333	80.3	
A	32 C10-C28	9.162	(3.851-14.472)		788333	80.3	
A	12 Unknown Hydrocarbons	9.162	(3.851-14.472)		788333	NC	
A	30 C13-C22	9.227	(6.545-11.909)		227545	23.2	
	44 Heptadecane	9.267	9.248	0.019	6921	NC	
A	31 C12-C24	9.287	(5.747-12.828)		382397	38.9	
	49 n-Octadecane	9.815	9.823	-0.008	3589	NC	
A	52 Mineral oil	9.908	(2.632-17.184)		2483248	222.5	
A	9 Crude Oil Range Organics (	9.502	(2.653-16.350)		2049959	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.908	(2.632-17.184)		1493993	NC	
33 C19	10.380	10.377	0.003	10147	NC	
A 64 C13-C28	10.509	(6.545-14.472)		778138	79.3	
A 17 C10-C36	10.101	(3.851-16.350)		1489714	151.7	
A 13 C9-C40	10.661	(2.632-18.690)		3187641	373.5	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		3187641	NC	
A 58 C16-C24	10.724	(8.619-12.828)		357988	36.5	
61 icosane	10.911	10.911	0.000	12200	NC	
A 6 C10-C40	11.271	(3.851-18.690)		3182997	373.2	
$ 34 p-Terphenyl	11.883	11.883	0.000	310682	27.0	
35 n-Docosane		11.909			ND	
A 18 C12-C40	12.218	(5.747-18.690)		3165303	371.3	
36 Tricosane	12.381	12.377	0.004	20826	NC	
A 66 C13-C40	12.618	(6.545-18.690)		2941359	344.5	
37 n-Tetracosane	12.827	12.828	-0.001	29430	NC	
A 2 C16-C36 ORO	12.901	(8.619-17.184)		1969666	276.1	
38 C25	13.262	13.262	0.000	31517	NC	
A 19 C16-C40	13.655	(8.619-18.690)		3085259	362.1	
46 n-Hexacosane	13.679	13.680	-0.001	33315	NC	
A 20 C19-C36	13.781	(10.377-17.184)		1237427	158.7	
A 55 C23-C32	14.144	(12.377-15.911)		1058205	257.6	
39 n-Octacosane	14.411	14.472	-0.061	87769	NC	
65 C29	14.851	14.849	0.002	77938	NC	
A 40 C24-C36	15.006	(12.828-17.184)		1570839	275.2	
A 7 Motor Oil	15.006	(12.828-17.184)		1570839	275.2	
A 50 C25-C36	15.223	(13.262-17.184)		1484564	275.9	
A 10 C22-C40	15.299	(11.909-18.690)		2032828	256.6	
A 41 C23-C40	15.534	(12.377-18.690)		2252474	291.4	
A 8 C24-C40	15.759	(12.828-18.690)		2185284	293.0	
56 Dotriacontane	15.911	15.911	0.000	86024	NC	
A 51 C28-C40	16.581	(14.472-18.690)		1785389	334.8	
A 63 C29-C40	16.770	(14.849-18.690)		1643849	344.5	
42 n-Hexatriacontane		17.184			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

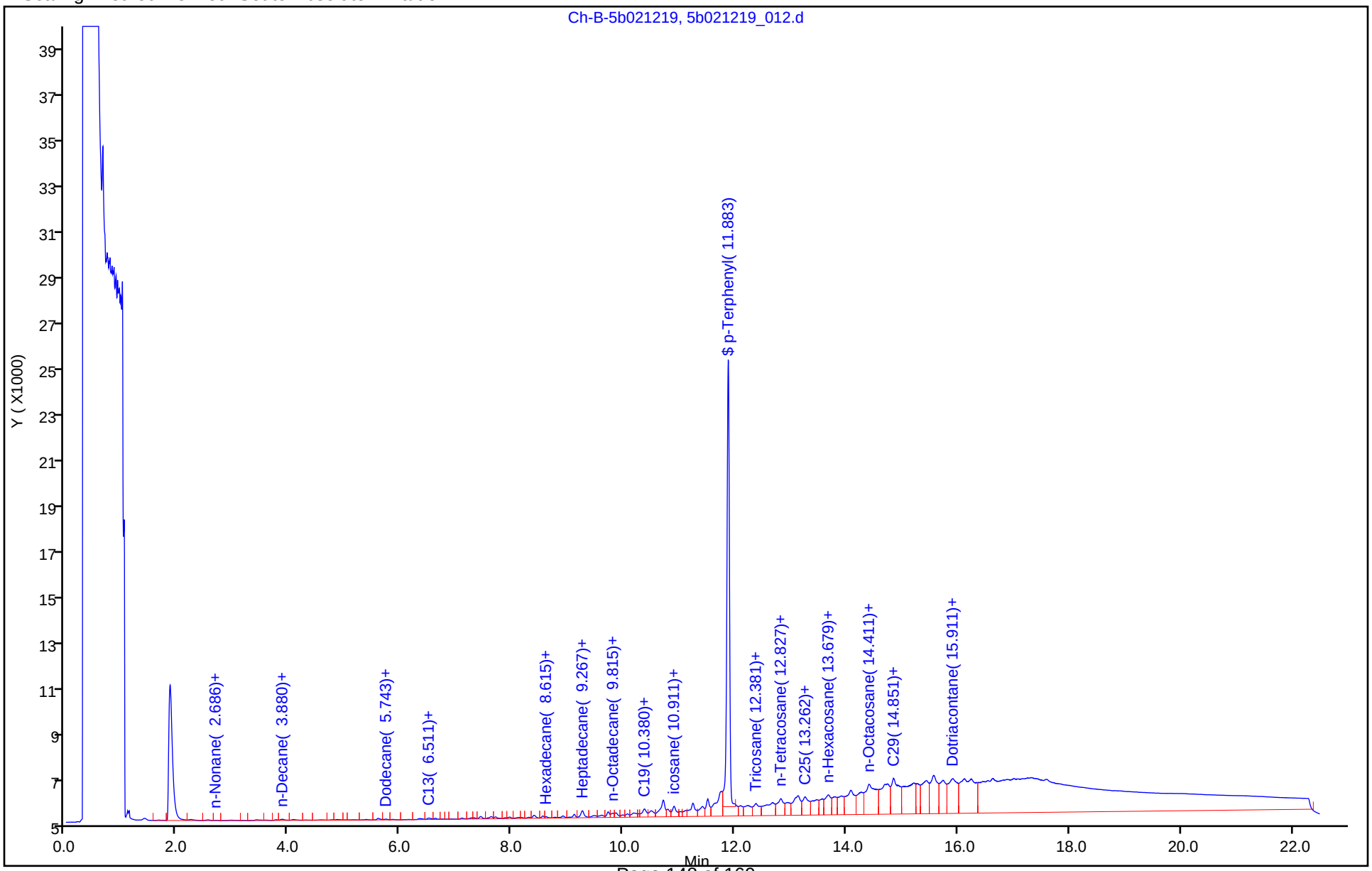
Report Date: 12-Feb-2019 15:33:46 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_012.d

Injection Date:	12-Feb-2019 14:33:30	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-23-F	Lab Sample ID:	720-91069-23	Worklist Smp#:	12
Client ID:	DUP-29				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_012.d				
Lims ID:	720-91069-E-23-F				
Client ID:	DUP-29				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 14:33:30	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 141 Name: 720-0056555-012				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 15:33:45	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 15:33:45

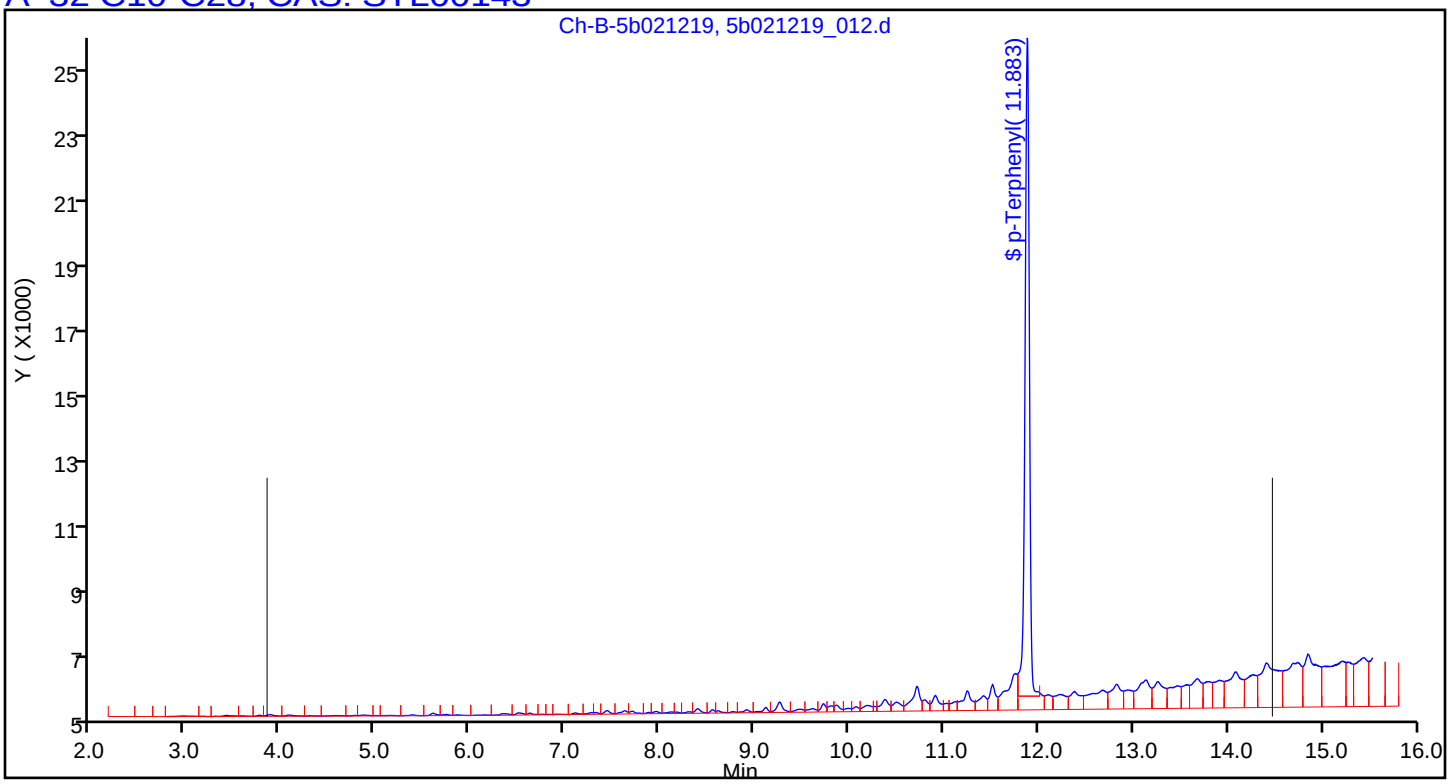
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.0	108.20

Report Date: 12-Feb-2019 15:33:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_012.d				
Injection Date:	12-Feb-2019 14:33:30	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-23-F	Lab Sample ID:	720-91069-23		
Client ID:	DUP-29				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

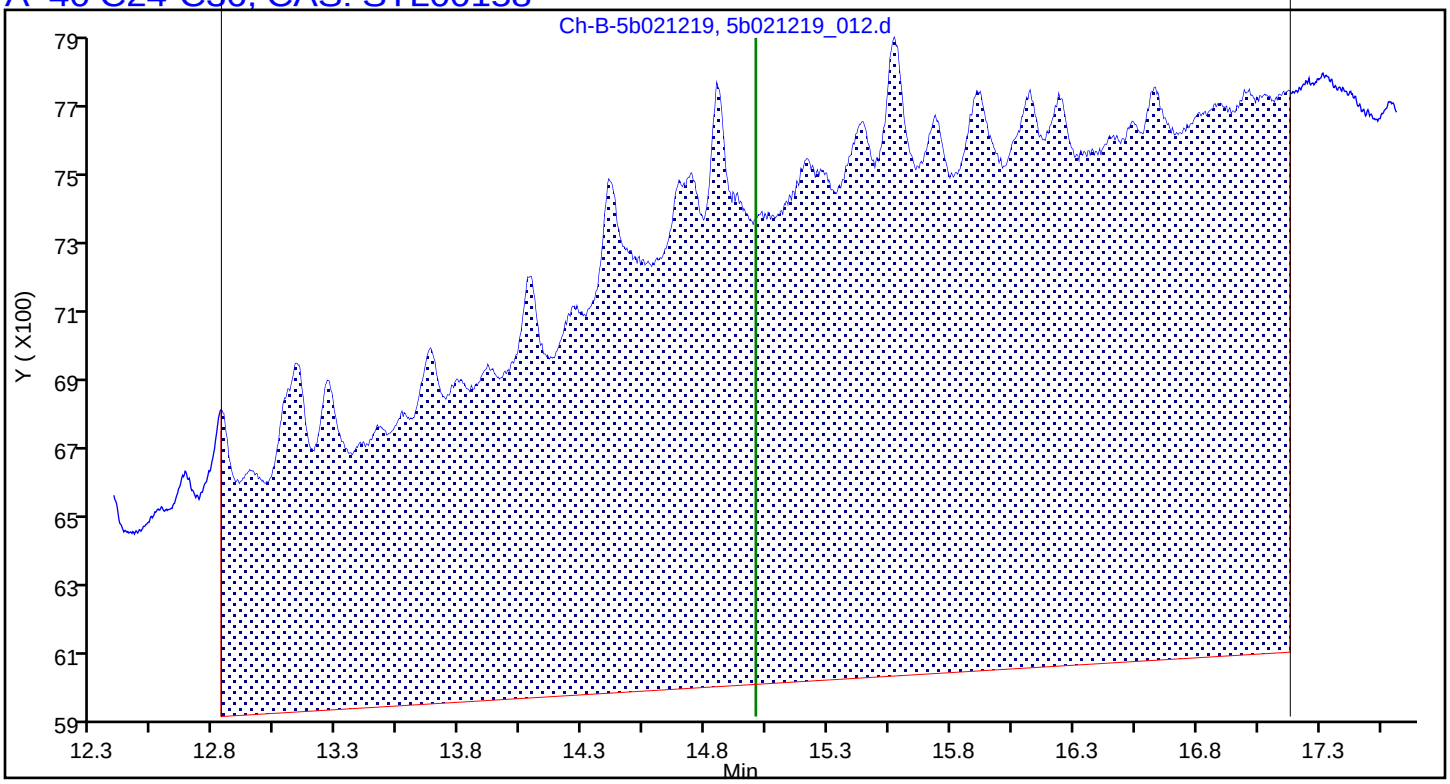


Report Date: 12-Feb-2019 15:33:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_012.d				
Injection Date:	12-Feb-2019 14:33:30	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-23-F	Lab Sample ID:	720-91069-23		
Client ID:	DUP-29				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_013.d
Lims ID: 720-91069-E-24-H
Client ID: DUP-75
Sample Type: Client
Inject. Date: 12-Feb-2019 15:02:36 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 102 Name: 720-0056555-013
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m
Limit Group: DRO
Last Update: 12-Feb-2019 15:34:08 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0309

First Level Reviewer: luj Date: 12-Feb-2019 15:34:08

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.708	2.632	0.076	187	NC	
	23 n-Decane	3.890	3.851	0.039	530	NC	
A	1 C9-C13	4.589	(2.632-6.545)		5982	0.5046	
A	21 Stoddard Solvent	4.589	(2.632-6.545)		5982	0.5262	
A	57 C10-C12	4.799	(3.851-5.747)		2653	0.2702	
	24 Dodecane	5.704	5.747	-0.043	460	NC	
A	3 C9 - C17	5.940	(2.632-9.248)		40173	2.92	
A	47 C9 - C18	6.227	(2.632-9.823)		57081	5.09	
A	60 C10-C16	6.235	(3.851-8.619)		25737	2.12	
A	15 Kerosene	6.505	(2.632-10.377)		72309	6.43	
A	25 C9-C19	6.505	(2.632-10.377)		72309	5.24	
	26 C13	6.507	6.545	-0.038	273	NC	
$	27 n-Decanoic Acid (Surr)		7.174			ND	U
A	59 C12-C16	7.183	(5.747-8.619)		23544	2.40	
A	62 C10-C20	7.381	(3.851-10.911)		91048	9.27	
A	28 C9-C24	7.730	(2.632-12.828)		147774	15.1	
A	29 C9-C25	7.947	(2.632-13.262)		165712	16.9	
A	54 C10-C23	8.114	(3.851-12.377)		132160	13.5	
A	4 C10-C24	8.340	(3.851-12.828)		146025	14.9	
A	16 C10-C25	8.557	(3.851-13.262)		163963	16.7	
	45 Hexadecane	8.628	8.619	0.009	5230	NC	
A	14 C10-C26	8.765	(3.851-13.680)		183422	18.7	
A	67 C12-C22	8.828	(5.747-11.909)		106013	10.8	
A	5 Diesel	9.162	(3.851-14.472)		249649	25.4	
A	32 C10-C28	9.162	(3.851-14.472)		249649	25.4	
A	12 Unknown Hydrocarbons	9.162	(3.851-14.472)		249649	NC	
A	30 C13-C22	9.227	(6.545-11.909)		104246	10.6	
	44 Heptadecane	9.272	9.248	0.024	8020	NC	
A	31 C12-C24	9.287	(5.747-12.828)		143832	14.6	
	49 n-Octadecane	9.873	9.823	0.050	4894	NC	
A	52 Mineral oil	9.908	(2.632-17.184)		1202619	107.8	
A	9 Crude Oil Range Organics (	9.303	(2.660-15.947)		881080	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.908	(2.632-17.184)		420193	NC	
33 C19	10.399	10.377	0.022	3984	NC	
A 64 C13-C28	10.509	(6.545-14.472)		245689	25.0	
A 17 C10-C36	9.899	(3.851-15.947)		418444	42.6	
A 13 C9-C40	10.661	(2.632-18.690)		1674483	175.2	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		1674483	NC	
A 58 C16-C24	10.724	(8.619-12.828)		120288	12.3	
61 icosane	10.965	10.911	0.054	2422	NC	
A 6 C10-C40	11.271	(3.851-18.690)		1671847	175.1	
$ 34 p-Terphenyl	11.883	11.883	0.000	310765	27.1	
35 n-Docosane		11.909			ND	
A 18 C12-C40	12.218	(5.747-18.690)		1662813	174.4	
36 Tricosane	12.409	12.377	0.032	6251	NC	
A 66 C13-C40	12.618	(6.545-18.690)		1516680	157.5	
37 n-Tetracosane	12.831	12.828	0.003	6247	NC	
A 2 C16-C36 ORO	12.901	(8.619-17.184)		829661	116.3	
38 C25	13.266	13.262	0.004	7616	NC	
A 19 C16-C40	13.655	(8.619-18.690)		1591935	166.2	
46 n-Hexacosane	13.682	13.680	0.002	7857	NC	
A 20 C19-C36	13.781	(10.377-17.184)		557405	71.5	
A 55 C23-C32	14.144	(12.377-15.911)		310007	75.5	
39 n-Octacosane	14.471	14.472	-0.001	6997	NC	
65 C29	14.852	14.849	0.003	33566	NC	
A 40 C24-C36	15.006	(12.828-17.184)		545407	95.5	
A 7 Motor Oil	15.006	(12.828-17.184)		545407	95.5	
A 50 C25-C36	15.223	(13.262-17.184)		527748	98.1	
A 10 C22-C40	15.299	(11.909-18.690)		677661	85.5	
A 41 C23-C40	15.534	(12.377-18.690)		937971	121.3	
A 8 C24-C40	15.759	(12.828-18.690)		923933	123.9	
56 Dotriacontane	15.917	15.911	0.006	15128	NC	
A 51 C28-C40	16.581	(14.472-18.690)		820579	133.9	
A 63 C29-C40	16.770	(14.849-18.690)		777746	140.9	
42 n-Hexatriacontane		17.184			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

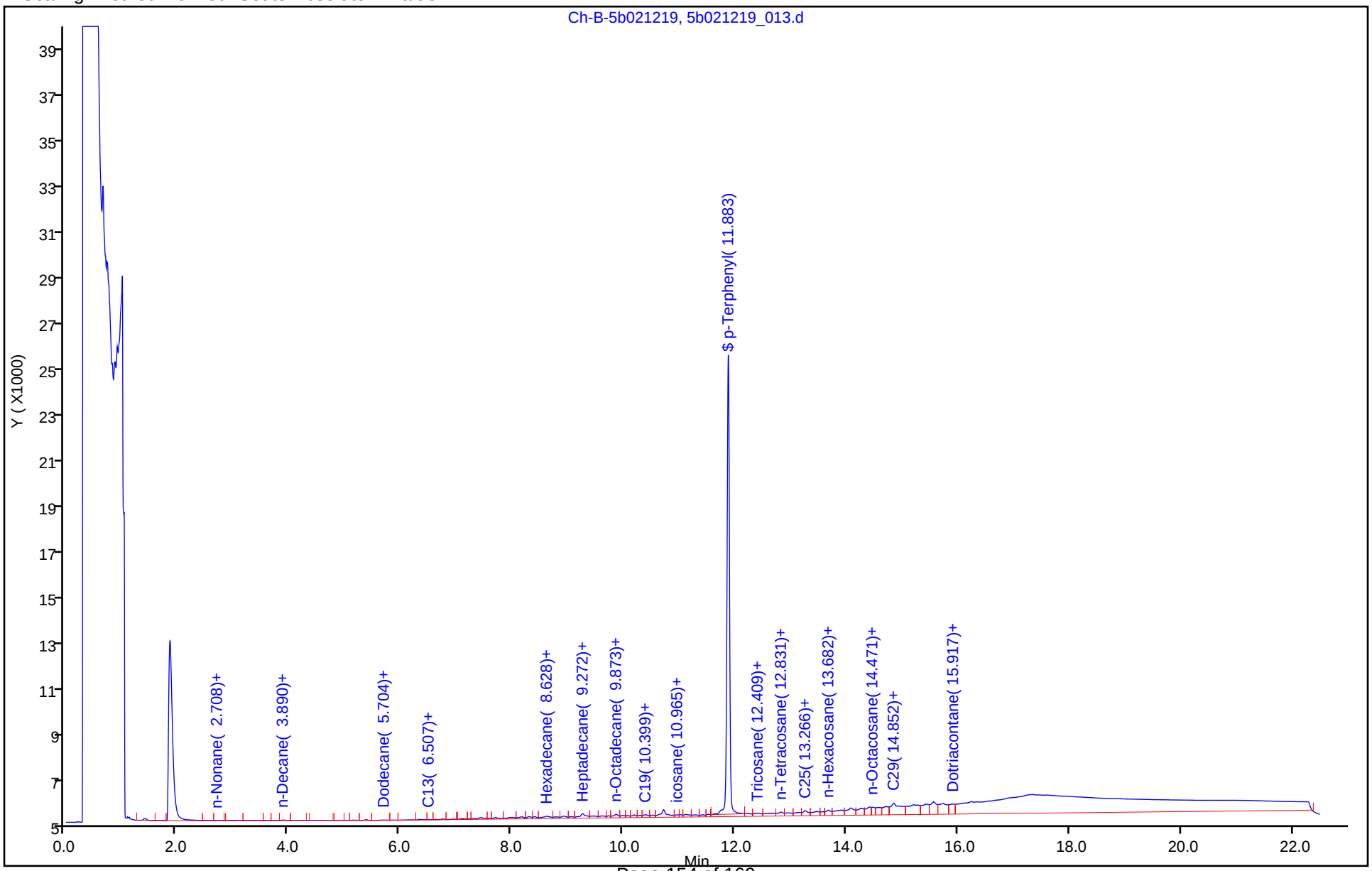
Report Date: 12-Feb-2019 15:34:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_013.d

Injection Date:	12-Feb-2019 15:02:36	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91069-E-24-H	Lab Sample ID:	720-91069-24	Worklist Smp#:	13
Client ID:	DUP-75				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_013.d				
Lims ID:	720-91069-E-24-H				
Client ID:	DUP-75				
Sample Type:	Client				
Inject. Date:	12-Feb-2019 15:02:36	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 102 Name: 720-0056555-013				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	12-Feb-2019 15:34:08	Calib Date:	12-Feb-2019 09:00:53		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0309				

First Level Reviewer: luj Date: 12-Feb-2019 15:34:08

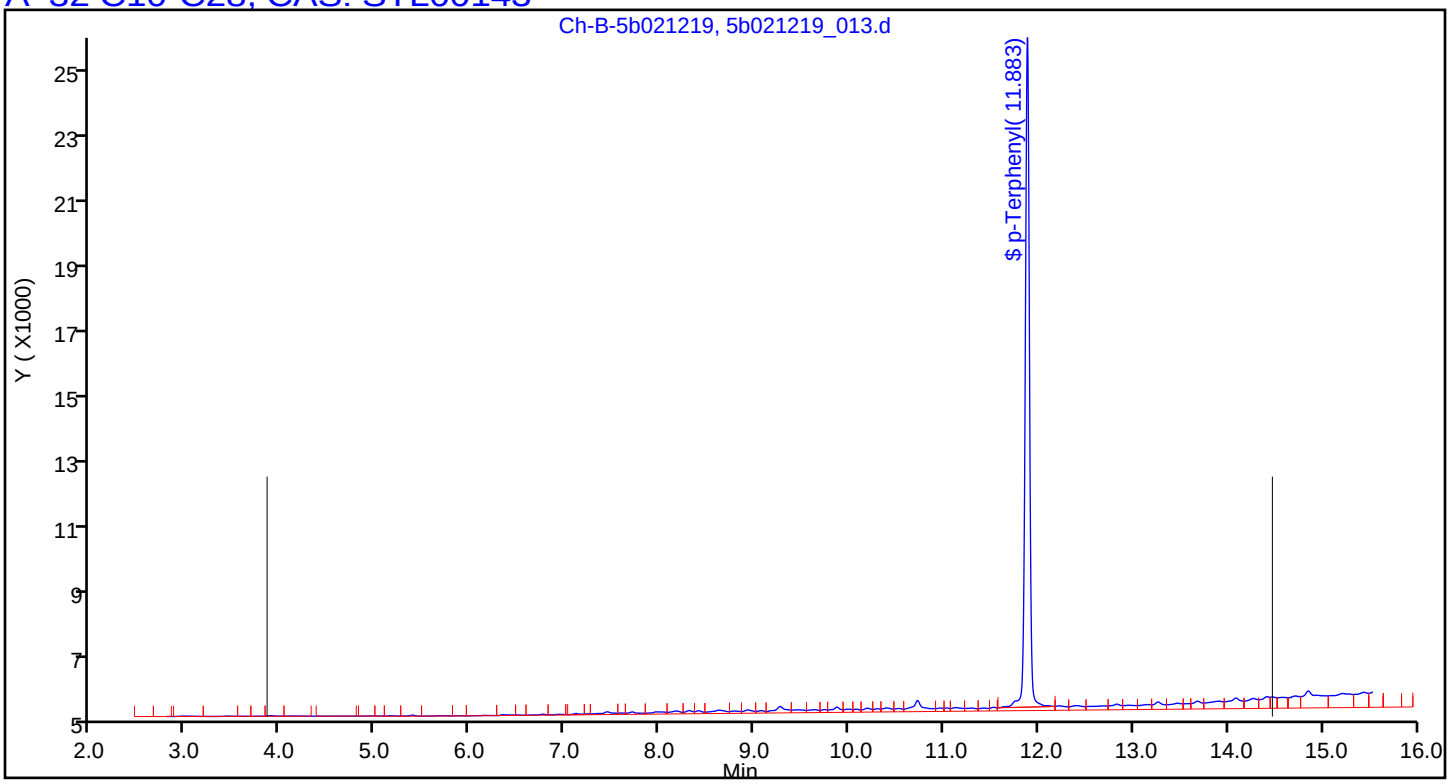
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	27.1	108.23

Report Date: 12-Feb-2019 15:34:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_013.d				
Injection Date:	12-Feb-2019 15:02:36	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-24-H	Lab Sample ID:	720-91069-24		
Client ID:	DUP-75				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

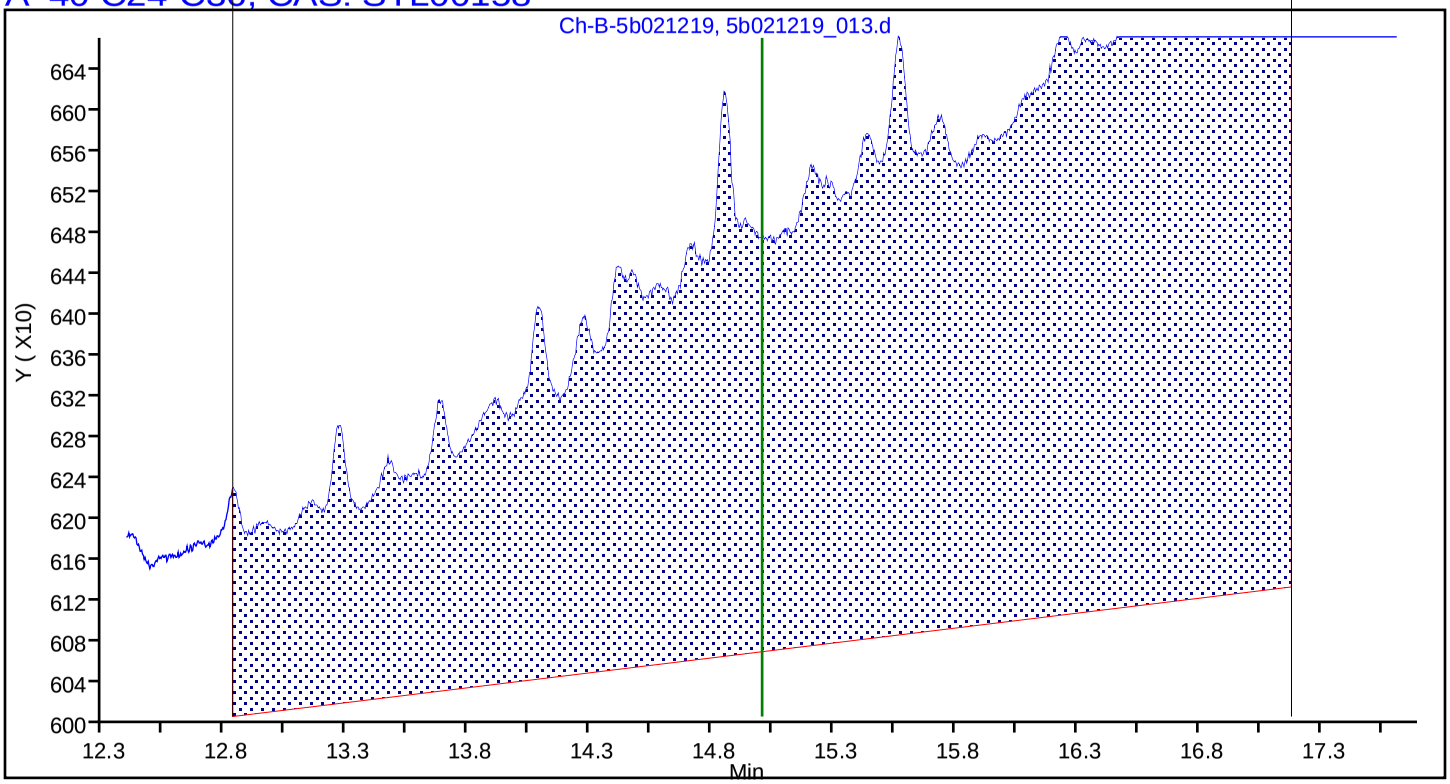


Report Date: 12-Feb-2019 15:34:10 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_013.d				
Injection Date:	12-Feb-2019 15:02:36	Instrument ID:	CHDRO5		
Lims ID:	720-91069-E-24-H	Lab Sample ID:	720-91069-24		
Client ID:	DUP-75				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

720-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schachman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91069 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1. DG-AH13s-0.5-1	29 Jan. 2019	0900	G	S	7	N		X	X	X	X	X	X	X	
2. DG-AH13s-3.5-4		0900													
3. DG-AH13s-7.5-8		0900													
4. DG-AJ13s-0.5-1		0930													
5. DG-AJ13s-3.5-4		0930													
6. DG-AL13s-0.5-1		0950													
7. DG-AL13s-3.5-4		0950													
8. DG-AC11s-0.5-1		1050													
9. DG-AC11s-3.5-4		1050													
10. DG-AC11s-8.5-9		1050													
11. DG-AA11s-0.5-1		1110													
12. DG-AA11s-3.5-4	↓	1110	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.6°C 0.3°C 0.5°C 0.9°C 1.2°C 2.2°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No. ____

Relinquished by	Company: Geosyntec	Date/Time: 29 January 2019	Received by	Company: TA PLS	Date/Time: 1-29-19 16:00
Relinquished by	Company: TA PLS	Date/Time: 1-29-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1-29-19 18:25

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
18626
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13.	DG-W11S-0.5-1	29 Jan. 2019	1130	G	S	7	N		X	X	X	X	X	X	X	
14.	DG-W11S-3.5-4		1130													
15.	DG-W7S-0.5-1		1320													
16.	DG-W7S-3.5-4		1320													
17.	DG-R5S-0.5-1		1400													
18.	DG-R5S-3.5-4		1400													
19.	DG-AB5S-0.5-1		1440													
20.	DG-AB5S-3.5-4		1440	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
21.	FB-01.29.19		—			2			X							
22.	DUP-31		—	G	S	7	N		X	X	X	X	X	X	X	
23.	DUP-29		—													
24.	DUP-75	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Nathan Schaffman	Geosyntec	29 Jan. 2019			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TA PLS	1-29-19 18:25			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			J Buhr	TA-PLS	1-29-19 18:25

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925 600 3002

720-91069

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaefman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
			G	S	7	N		X	X	X	X	X	X	X	
25. TB-01.29.19	29 Jan. 2019	—			2			X							

Page 160 of 169

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No. _____		
Relinquished by Nathan Schaefman	Company Geosyntec	Date/Time 16:12 29 Jan. 2019	Received by	Company TA-PLS	Date/Time 1-29-19 16:[illegible]
Relinquished by	Company TA-PLS	Date/Time 16:25 1-29-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time.	Received in Laboratory by	Company TA-PLS	Date/Time 1-29-19 16:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645743079	COC No: 720-40994.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Sssolid, Oowaste/oil, BT=Tissue, Aair)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260BCA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons
DG-AH13S-0.5-1 (720-91069-1)	1/29/19	09:00 Pacific		Solid	X	X	X	
DG-AH13S-3.5-4 (720-91069-2)	1/29/19	09:00 Pacific		Solid	X	X	X	
DG-AH13S-7.5-8 (720-91069-3)	1/29/19	09:00 Pacific		Solid	X	X	X	
DG-AJ13S-0.5-1 (720-91069-4)	1/29/19	09:30 Pacific		Solid	X	X	X	
DG-AJ13S-3.5-4 (720-91069-5)	1/29/19	09:30 Pacific		Solid	X	X	X	
DG-AL13S-0.5-1 (720-91069-6)	1/29/19	09:50 Pacific		Solid	X	X	X	
DG-AL13S-3.5-4 (720-91069-7)	1/29/19	09:50 Pacific		Solid	X	X	X	
DG-AC11S-0.5-1 (720-91069-8)	1/29/19	10:50 Pacific		Solid	X	X	X	
DG-AC11S-3.5-4 (720-91069-9)	1/29/19	10:50 Pacific		Solid	X	X	X	

720-91069 Chain of Custody

Special Instructions/Note:

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: FED-EX D/O BY ROBERT RICH	
Relinquished by:	Date/Time: 1/29/19 16:45	Company TA-PLS	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/30/19 1015	Company TA IRV		

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: IR9A 4.0/3.5

Ver: 09/20/2016

Encores or Terracores Frozen Date: 01/30/19 Time: 14:55 Initials: CC

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40994.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave. Suite 100.	Due Date Requested: 2/8/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AC11S-8.5-9 (720-91069-10)	1/29/19	10:50 Pacific		Solid		X	X	X		
DG-AA11S-0.5-1 (720-91069-11)	1/29/19	11:10 Pacific		Solid		X	X	X		
DG-AA11S-3.5-4 (720-91069-12)	1/29/19	11:10 Pacific		Solid		X	X	X		
DG-W11S-0.5-1 (720-91069-13)	1/29/19	11:30 Pacific		Solid		X	X	X		
DG-W11S-3.5-4 (720-91069-14)	1/29/19	11:30 Pacific		Solid		X	X	X		
DG-W7S-0.5-1 (720-91069-15)	1/29/19	13:20 Pacific		Solid		X	X	X		
DG-W7S-3.5-4 (720-91069-16)	1/29/19	13:20 Pacific		Solid		X	X	X		
DG-R5S-0.5-1 (720-91069-17)	1/29/19	14:00 Pacific		Solid		X	X	X		
DG-R5S-3.5-4 (720-91069-18)	1/29/19	14:00 Pacific		Solid		X	X	X		

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEX D/O
Relinquished by:	Date/Time: 1/29/19 1645	Company TAPLS	Received by: Date/Time: Company
Relinquished by:	Date/Time: Company		Received by: Date/Time: Company
Relinquished by:	Date/Time: Company		Received by: Date/Time: 1/30/19 1015 Company TA IRV
Custody Seals Intact: ▲ Yes △ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-40994.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sediment, Solid, Oil, Tissue, Air, etc.)	Perform MS/MSD (Yes or No)	Benzoic acid, Standard 8082 PCB List	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AB5S-0.5-1 (720-91069-19)	1/29/19	14:40 Pacific		Solid		X	X	X			
DG-AB5S-3.5-4 (720-91069-20)	1/29/19	14:40 Pacific		Solid		X	X	X			
FB-01.29.19 (720-91069-21)	1/29/19	Pacific		Water					X	X	check for 2 phases
DUP-31 (720-91069-22)	1/29/19	Pacific		Solid		X	X	X			
DUP-29 (720-91069-23)	1/29/19	Pacific		Solid		X	X	X			
DUP-75 (720-91069-24)	1/29/19	Pacific		Solid		X	X	X			
TB-01.29-19 (720-91069-25)	1/29/19	Pacific		Water					X	X	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/29/19 1645	TA-PLS			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	1/30/19 1015	TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

158160

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schachner
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, lsmith @geosyntec.com	☑ 2 weeks			720-91069 Chain of Custody
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1. DG-AH13s-0.5-1	29 Jan. 2019	0900	G	S	7	N		X	X	X	X	X	X	X	
2. DG-AH13s-3.5-4		0900													
3. DG-AH13s-7.5-8		0900													
4. DG-AJ13s-0.5-1		0930													
5. DG-AJ13s-3.5-4		0930													
6. DG-AL13s-0.5-1		0950													
7. DG-AL13s-3.5-4		0950													
8. DG-AC11s-0.5-1		1050													
9. DG-AC11s-3.5-4		1050													
10. DG-AC11s-8.5-9		1050													
11. DG-AA11s-0.5-1		1110													
12. DG-AA11s-3.5-4	↓	1110	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

0.6°C 0.3°C 0.3°C 0.9°C 1.2°C 2.2°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 29 January	Received by:	Company: TA PLS	Date/Time: 1-29-19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1-29-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#168160
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schuftman
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
13. DG-W11s-0.5-1	29 Jan. 2019	1130	G	S	7	N		X	X	X	X	X	X	X	
14. DG-W11s-3.5-4		1130													
15. DG-W7s-0.5-1		1320													
16. DG-W7s-3.5-4		1320													
17. DG-R5s-0.5-1		1400													
18. DG-R5s-3.5-4		1400													
19. DG-AB5s-0.5-1		1440													
20. DG-AB5s-3.5-4		1440	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
21. FB-01.29.19		—			2			X							
22. DUP-31		—	G	S	7	N		X	X	X	X	X	X	X	
23. DUP-29		—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
24. DUP-75	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 1600 29 Jan 2019	Received by:	Company: TA PLS	Date/Time: 1-29-19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1625 1-29-19	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

TAO-91069

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#188160
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	3 of 3 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Kaitlin Schaftman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
			G	S	7	N		X	X	X	X	X	X	X	
RS. TB-01.29.19	29 Jan. 2019	—			2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No.:

Relinquished by:	Company: Geosyntec	Date/Time: 29 Jan. 2019	Received by:	Company: TA PLS	Date/Time: 1-29-19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1-29-19	Received by:	Company.	Date/Time.
Relinquished by:	Company.	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.1B, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3208	COC No: 720-40994.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Total Number of Containers	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AH13S-0.5-1 (720-91069-1)	1/29/19	09:00 Pacific		Solid			X	X	X			1
DG-AH13S-3.5-4 (720-91069-2)	1/29/19	09:00 Pacific		Solid			X	X	X			
DG-AH13S-7.5-8 (720-91069-3)	1/29/19	09:00 Pacific		Solid			X	X	X			
DG-AJ13S-0.5-1 (720-91069-4)	1/29/19	09:30 Pacific		Solid			X	X	X			
DG-AJ13S-3.5-4 (720-91069-5)	1/29/19	09:30 Pacific		Solid			X	X	X			
DG-AL13S-0.5-1 (720-91069-6)	1/29/19	09:50 Pacific		Solid			X	X	X			
DG-AL13S-3.5-4 (720-91069-7)	1/29/19	09:50 Pacific		Solid			X	X	X			
DG-AC11S-0.5-1 (720-91069-8)	1/29/19	10:50 Pacific		Solid			X	X	X			
DG-AC11S-3.5-4 (720-91069-9)	1/29/19	10:50 Pacific		Solid			X	X	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX-DO BY ROBERT KOCH 1/29/19
Relinquished by:	Date/Time: 1/30/19 1233	Company: TRPLS	Received by: Date/Time: 1/31/19 9.45 Company: TA IRV
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4/2.4 1k.88

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3208	COC No: 720-40994.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019	Analysis Requested		Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AC11S-8.5-9 (720-91069-10)	1/29/19	10:50 Pacific		Solid			X	X	X			1	
DG-AA11S-0.5-1 (720-91069-11)	1/29/19	11:10 Pacific		Solid			X	X	X			1	
DG-AA11S-3.5-4 (720-91069-12)	1/29/19	11:10 Pacific		Solid			X	X	X			1	
DG-W11S-0.5-1 (720-91069-13)	1/29/19	11:30 Pacific		Solid			X	X	X			1	
DG-W11S-3.5-4 (720-91069-14)	1/29/19	11:30 Pacific		Solid			X	X	X			1	
DG-W7S-0.5-1 (720-91069-15)	1/29/19	13:20 Pacific		Solid			X	X	X			1	
DG-W7S-3.5-4 (720-91069-16)	1/29/19	13:20 Pacific		Solid			X	X	X			1	
DG-R5S-0.5-1 (720-91069-17)	1/29/19	14:00 Pacific		Solid			X	X	X			1	
DG-R5S-3.5-4 (720-91069-18)	1/29/19	14:00 Pacific		Solid			X	X	X			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/30/19 1233	TAPLS		1/31/19 9.45	TA/RL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4/2.4 IR.85

Ver 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3205	COC No: 720-40994.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91069-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
			Preservation Code:										
DG-AB5S-0.5-1 (720-91069-19)	1/29/19	14:40 Pacific		Solid			X	X	X			2	1
DG-AB5S-3.5-4 (720-91069-20)	1/29/19	14:40 Pacific		Solid			X	X	X			2	1
~~FB-01.29.19 (720-91069-21)~~	~~1/29/19~~	~~Pacific~~		~~Water~~						X	X	3	check for 2 phases
DUP-31 (720-91069-22)	1/29/19	Pacific		Solid			X	X	X			2	1
DUP-29 (720-91069-23)	1/29/19	Pacific		Solid			X	X	X			2	1
DUP-75 (720-91069-24)	1/29/19	Pacific		Solid			X	X	X			2	1
~~TB-01.29.19 (720-91069-25)~~	~~1/29/19~~	~~Pacific~~		~~Water~~						X	X	3	check for 2 phases

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/30/19 1233	Company: TAPLS	Received by:	Date/Time: 1/31/19 9:45	Company: TA IRV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ~~Δ Yes~~ Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks. 2.4/2.4 IR-58

Ver 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91071-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Laura Turpen
Project Manager I
2/15/2019 3:46 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/15/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
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The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Method 8015B - DRO Sample Data 3
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TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a056.d				
Lims ID:	720-91071-G-1-A				
Client ID:	DG-AK11W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 07:31:28	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:39:52	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:39:52		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.585	(1.883-7.287)		23898737	7233.7	
$ 127 n-Octacosane	7.117	7.097	0.020	595016	182.6	
A 136 C24-C36	7.540	(5.898-9.182)		8713536	2637.4	

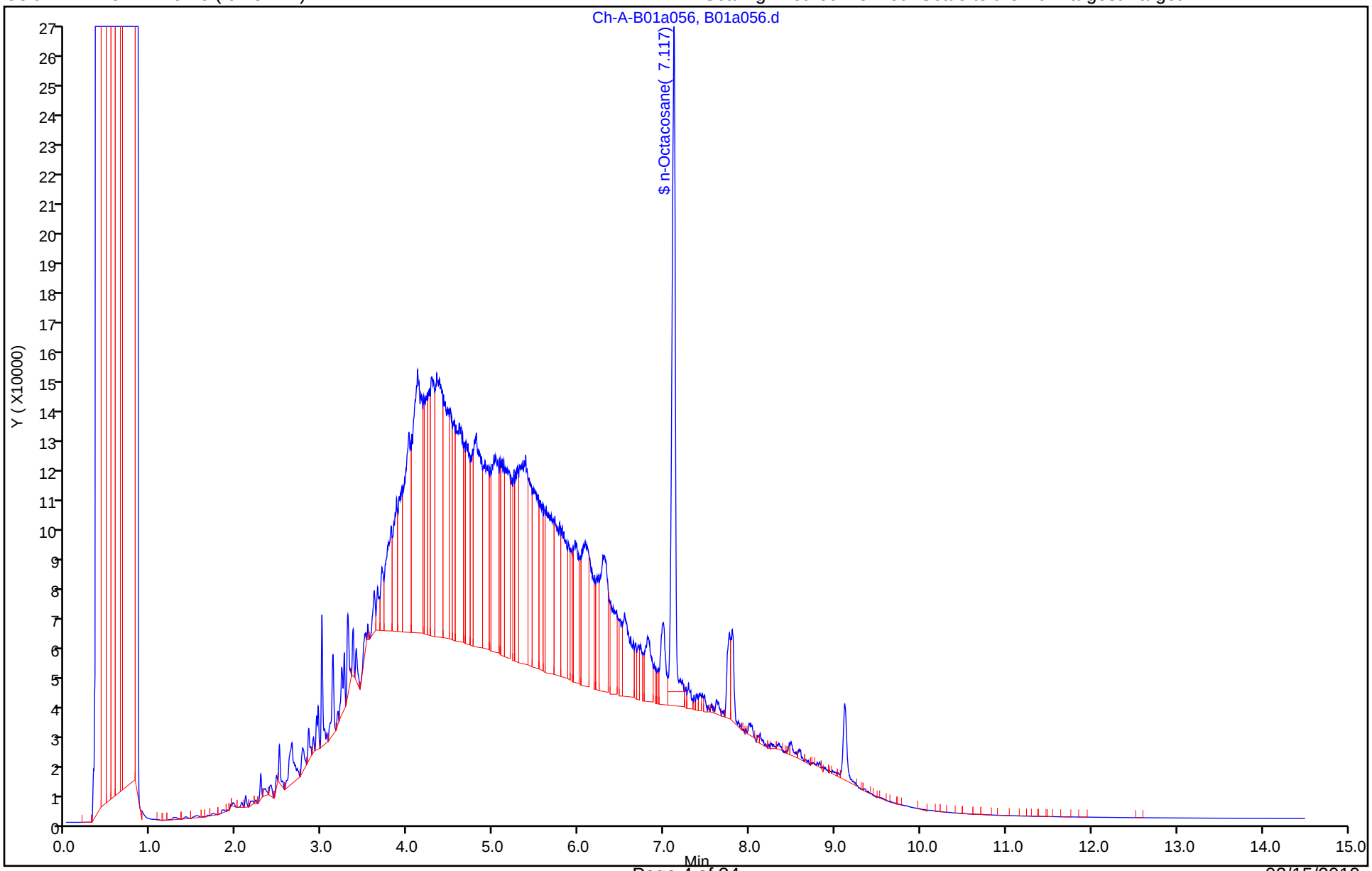
Report Date: 04-Feb-2019 17:39:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a056.d

Injection Date:	02-Feb-2019 07:31:28	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91071-G-1-A	Lab Sample ID:	440-91071-1	Worklist Smp#:	56
Client ID:	DG-AK11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a056.d				
Lims ID:	720-91071-G-1-A				
Client ID:	DG-AK11W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 07:31:28	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:39:52	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:39:52

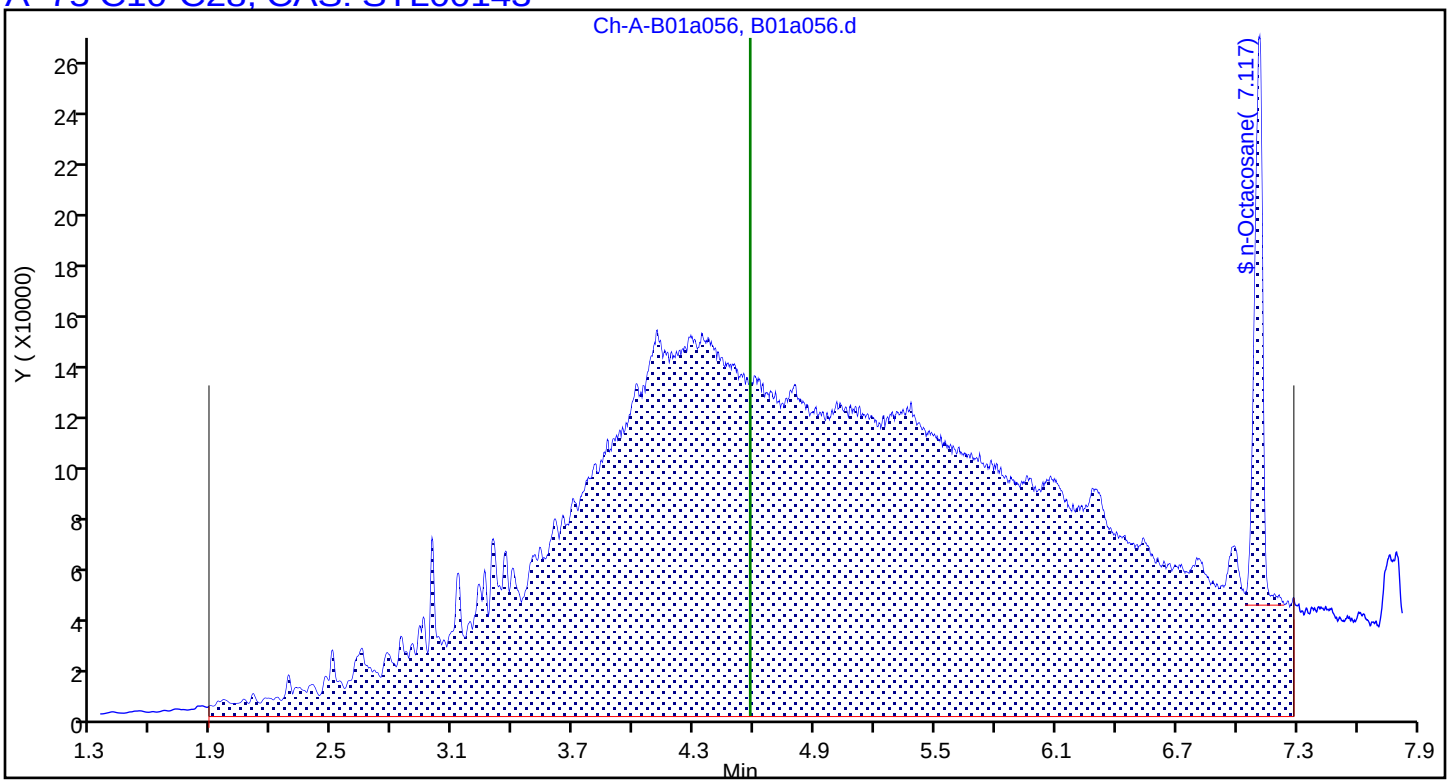
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	182.6	91.32

Report Date: 04-Feb-2019 17:39:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a056.d				
Injection Date:	02-Feb-2019 07:31:28	Instrument ID:	GC69A		
Lims ID:	720-91071-G-1-A	Lab Sample ID:	440-91071-1		
Client ID:	DG-AK11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

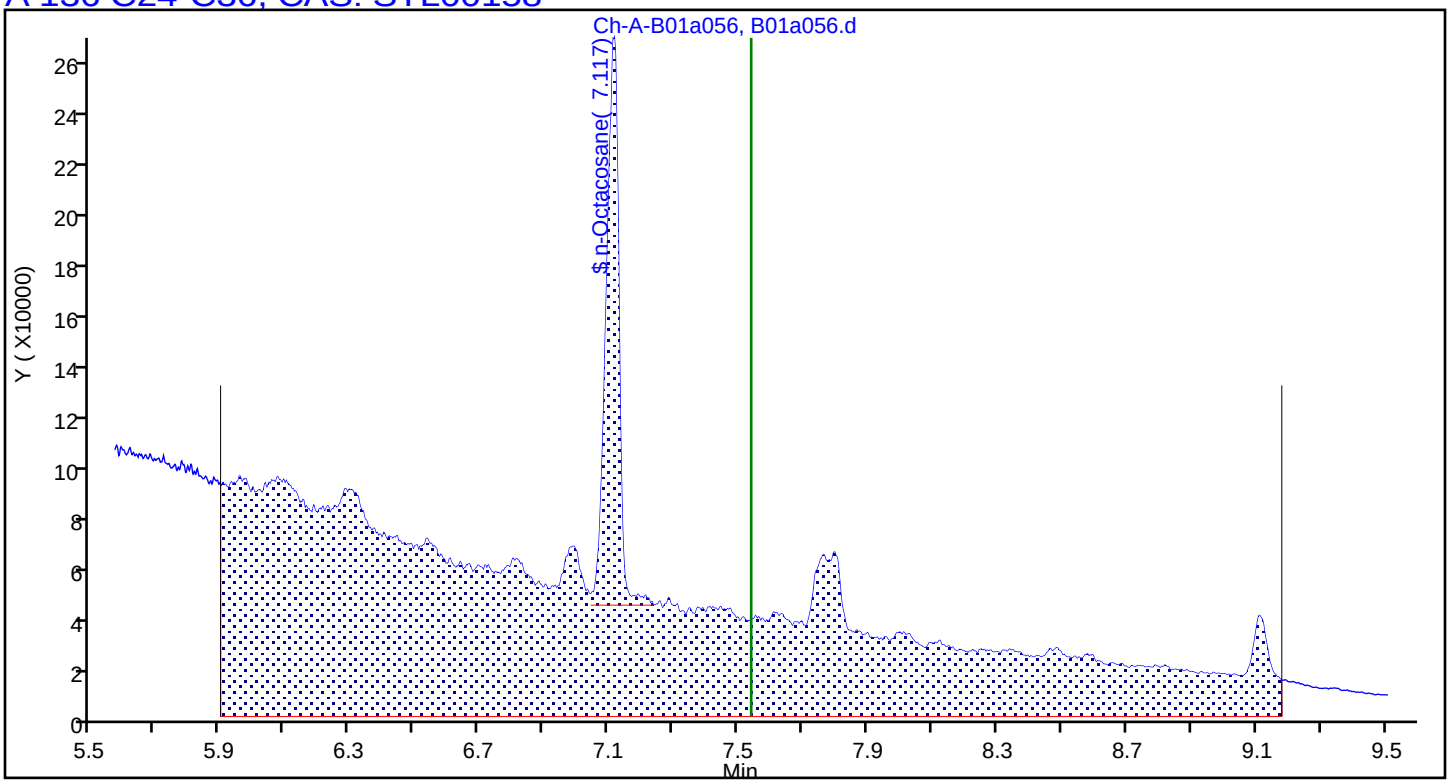


Report Date: 04-Feb-2019 17:39:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a056.d				
Injection Date:	02-Feb-2019 07:31:28	Instrument ID:	GC69A		
Lims ID:	720-91071-G-1-A	Lab Sample ID:	440-91071-1		
Client ID:	DG-AK11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a060.d				
Lims ID:	720-91071-E-2-A				
Client ID:	DG-R13W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 08:52:54	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:41:24	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:41:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.579	(1.872-7.287)		523821	158.6	
$ 127 n-Octacosane	7.095	7.097	-0.002	374684	115.0	
A 136 C24-C36	7.540	(5.898-9.182)		492801	149.2	

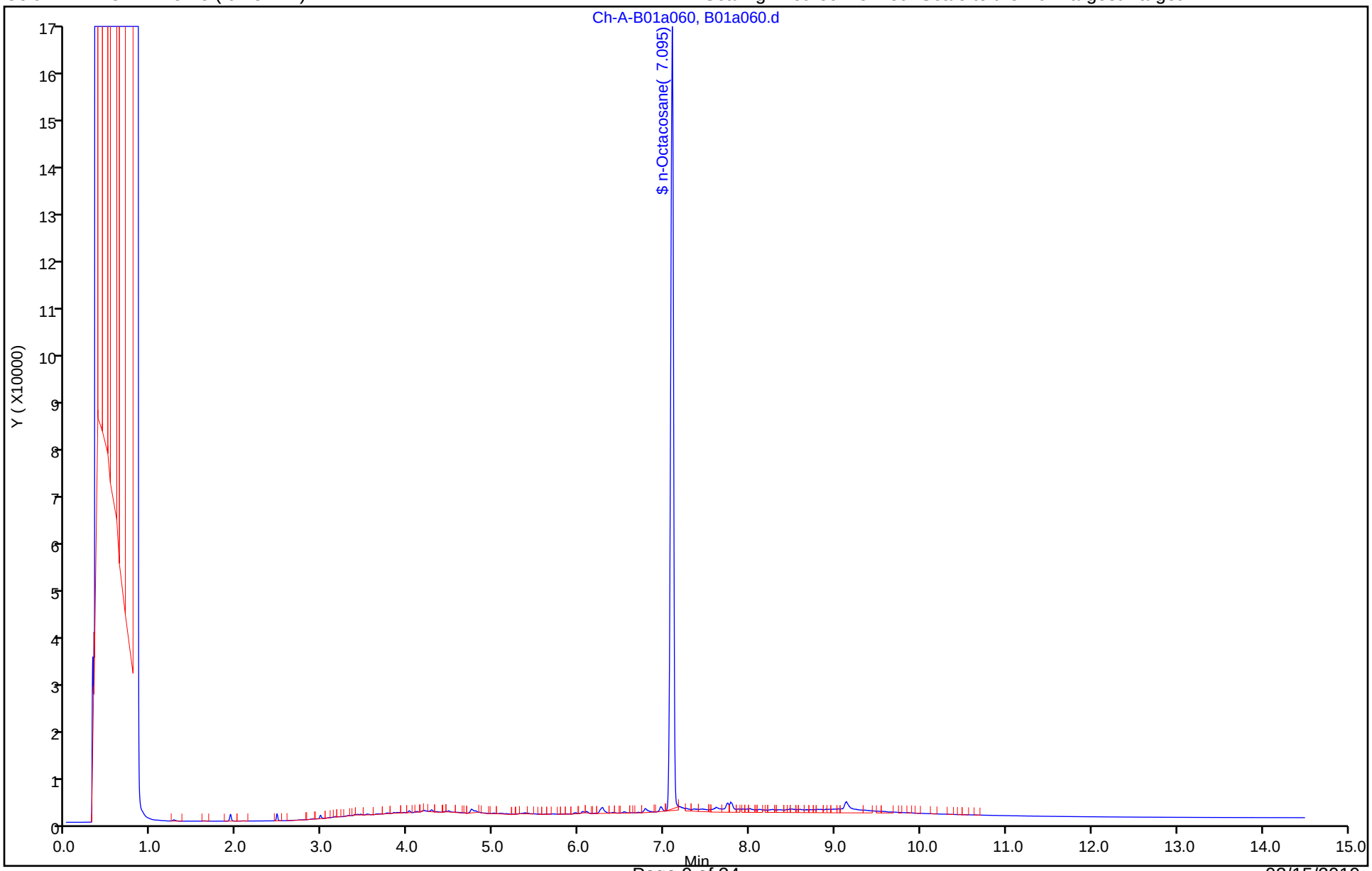
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a060.d

Injection Date:	02-Feb-2019 08:52:54	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91071-E-2-A	Lab Sample ID:	440-91071-2	Worklist Smp#:	60
Client ID:	DG-R13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a060.d				
Lims ID:	720-91071-E-2-A				
Client ID:	DG-R13W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 08:52:54	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:41:24	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:41:24

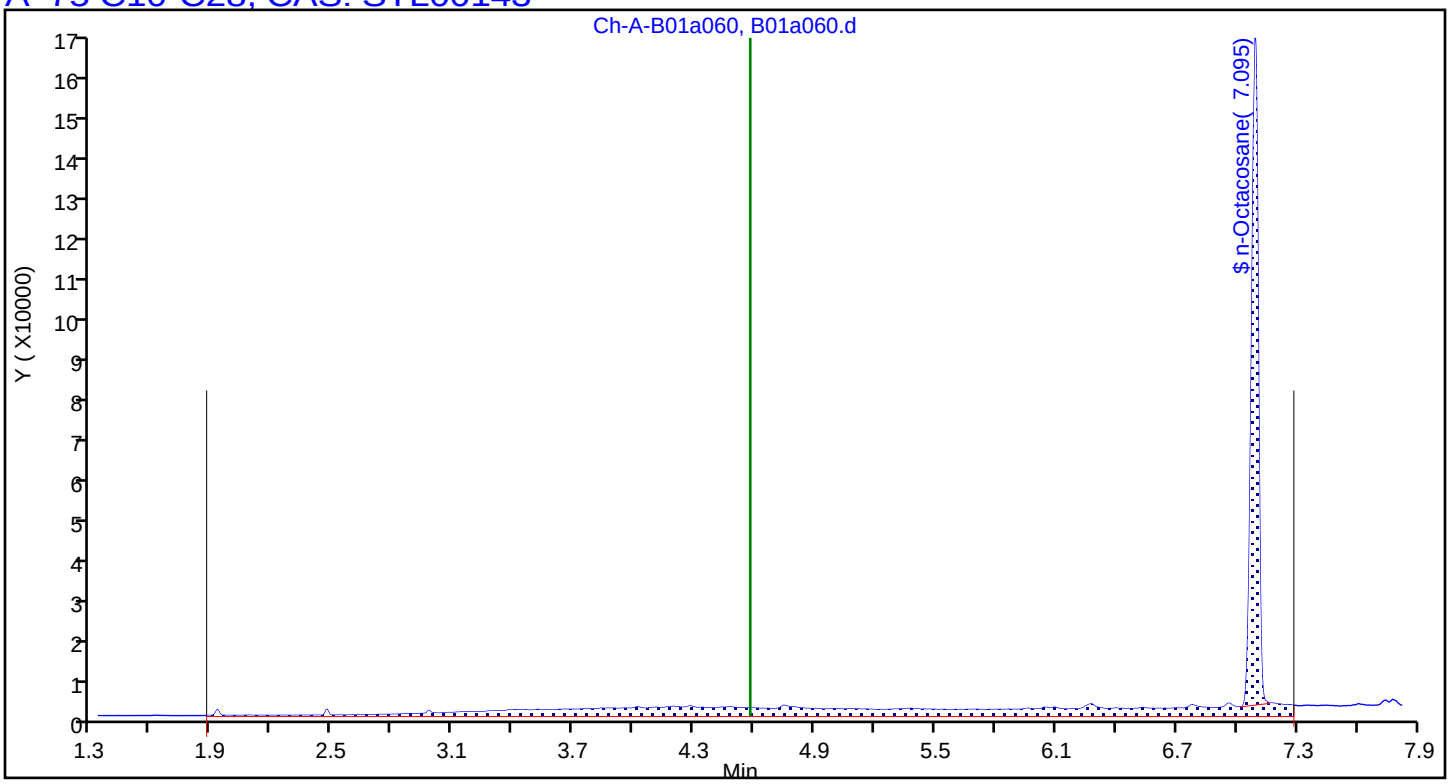
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	115.0	57.50

Report Date: 04-Feb-2019 17:41:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a060.d				
Injection Date:	02-Feb-2019 08:52:54	Instrument ID:	GC69A		
Lims ID:	720-91071-E-2-A	Lab Sample ID:	440-91071-2		
Client ID:	DG-R13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

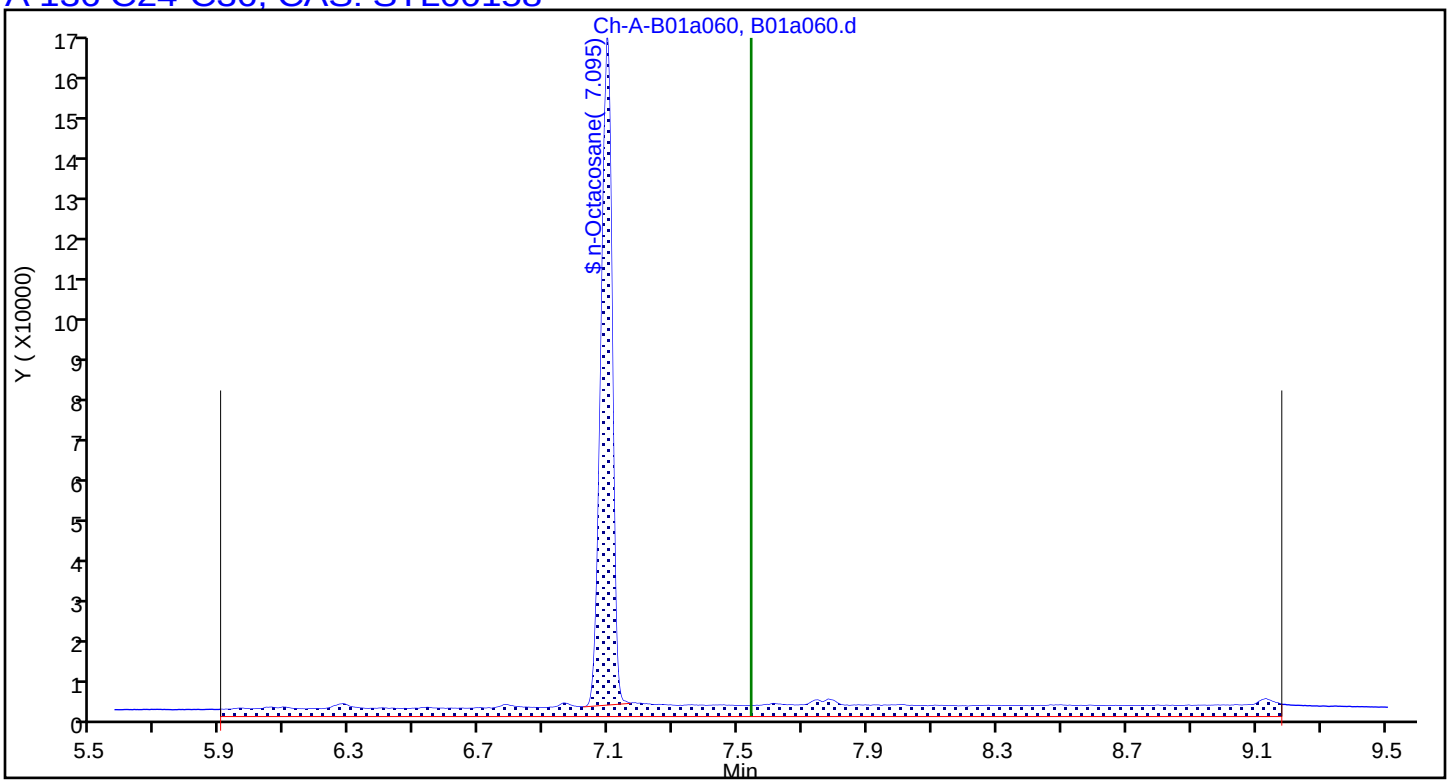


Report Date: 04-Feb-2019 17:41:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a060.d				
Injection Date:	02-Feb-2019 08:52:54	Instrument ID:	GC69A		
Lims ID:	720-91071-E-2-A	Lab Sample ID:	440-91071-2		
Client ID:	DG-R13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a063.d				
Lims ID:	720-91071-G-3-A				
Client ID:	DG-AL13W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 09:53:54	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:42:12	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:42:12		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.596	(1.905-7.287)		17388234	5263.1	
$ 127 n-Octacosane	7.112	7.097	0.015	474827	145.7	
A 136 C24-C36	7.540	(5.898-9.182)		6192309	1874.3	

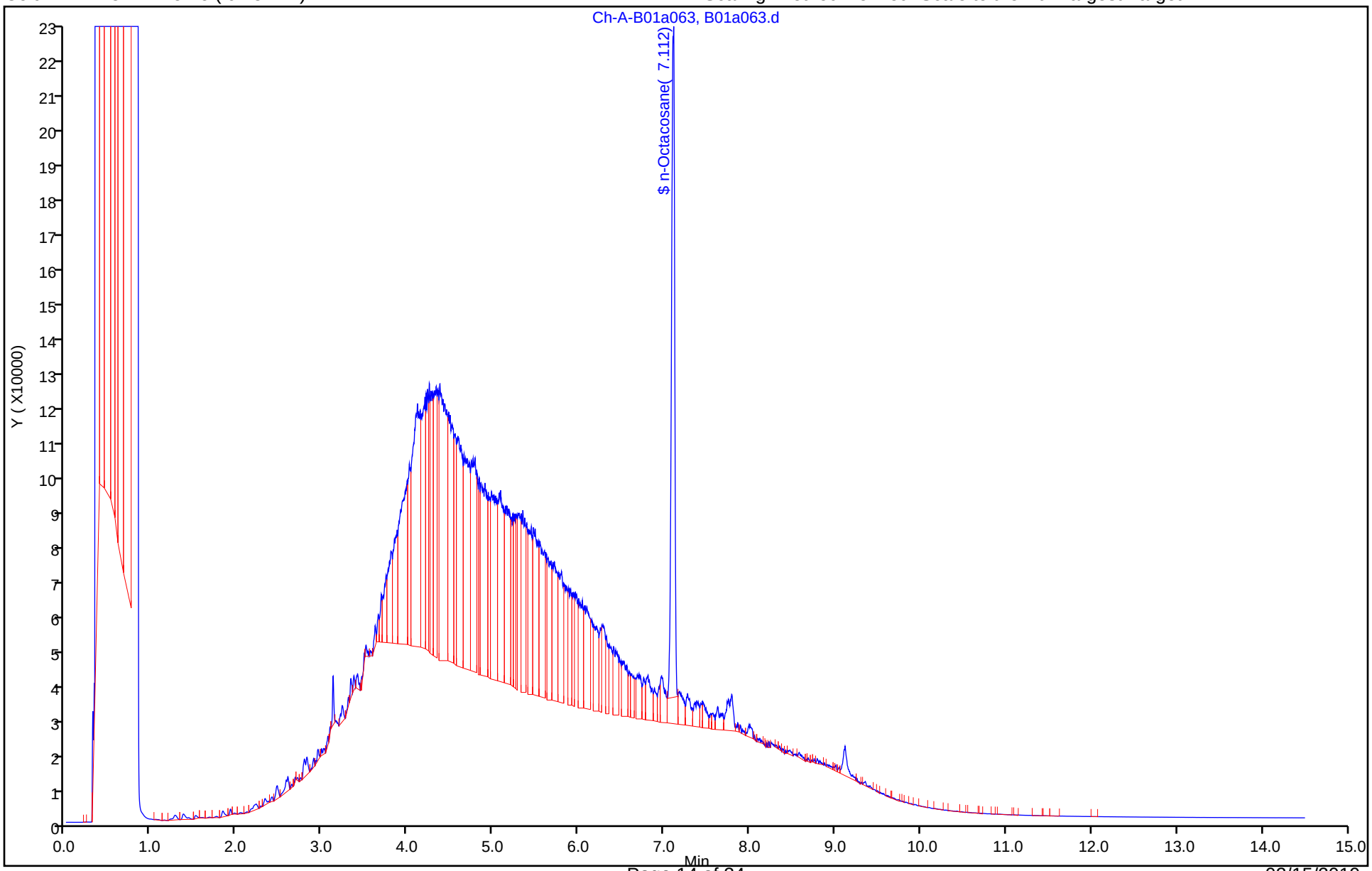
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a063.d

Injection Date:	02-Feb-2019 09:53:54	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91071-G-3-A	Lab Sample ID:	440-91071-3	Worklist Smp#:	63
Client ID:	DG-AL13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a063.d				
Lims ID:	720-91071-G-3-A				
Client ID:	DG-AL13W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 09:53:54	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:42:12	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:42:12

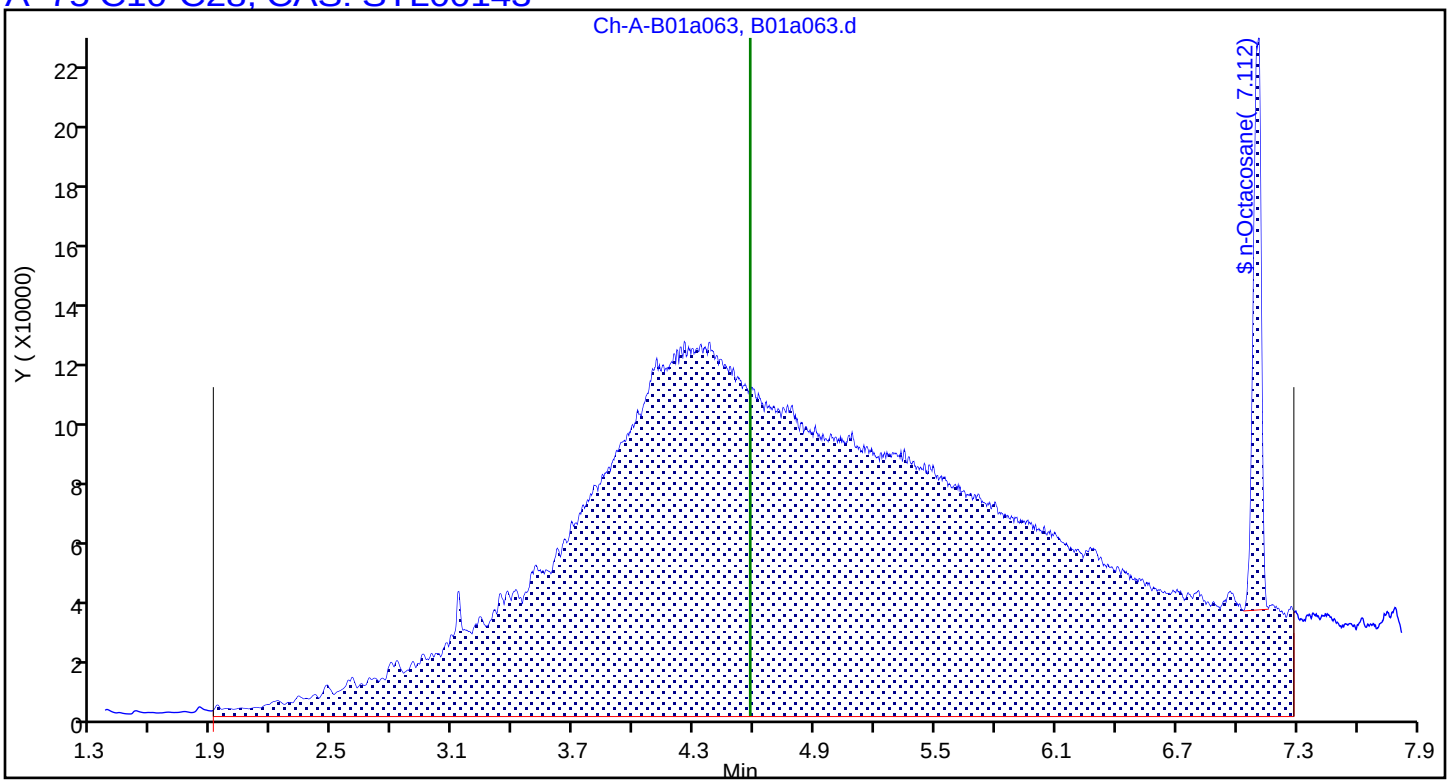
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	145.7	72.87

Report Date: 04-Feb-2019 17:42:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a063.d				
Injection Date:	02-Feb-2019 09:53:54	Instrument ID:	GC69A		
Lims ID:	720-91071-G-3-A	Lab Sample ID:	440-91071-3		
Client ID:	DG-AL13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

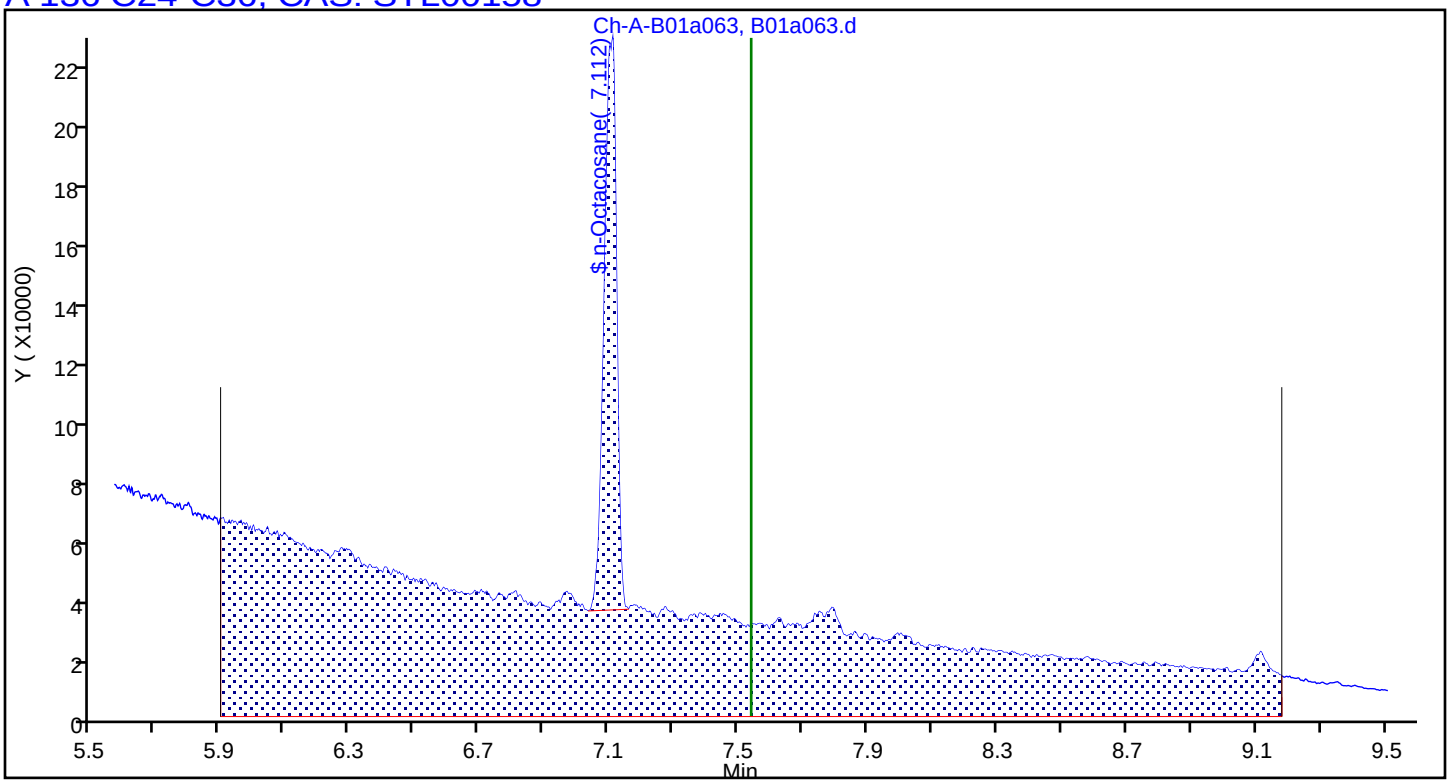


Report Date: 04-Feb-2019 17:42:13 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a063.d				
Injection Date:	02-Feb-2019 09:53:54	Instrument ID:	GC69A		
Lims ID:	720-91071-G-3-A	Lab Sample ID:	440-91071-3		
Client ID:	DG-AL13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a064.d				
Lims ID:	720-91071-F-4-A				
Client ID:	DG-AJ13W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 10:14:43	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:42:30	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:42:30		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.595	(1.903-7.287)		14162591	4286.8	
$ 127 n-Octacosane	7.112	7.097	0.015	561989	172.5	
A 136 C24-C36	7.540	(5.898-9.182)		6883425	2083.5	

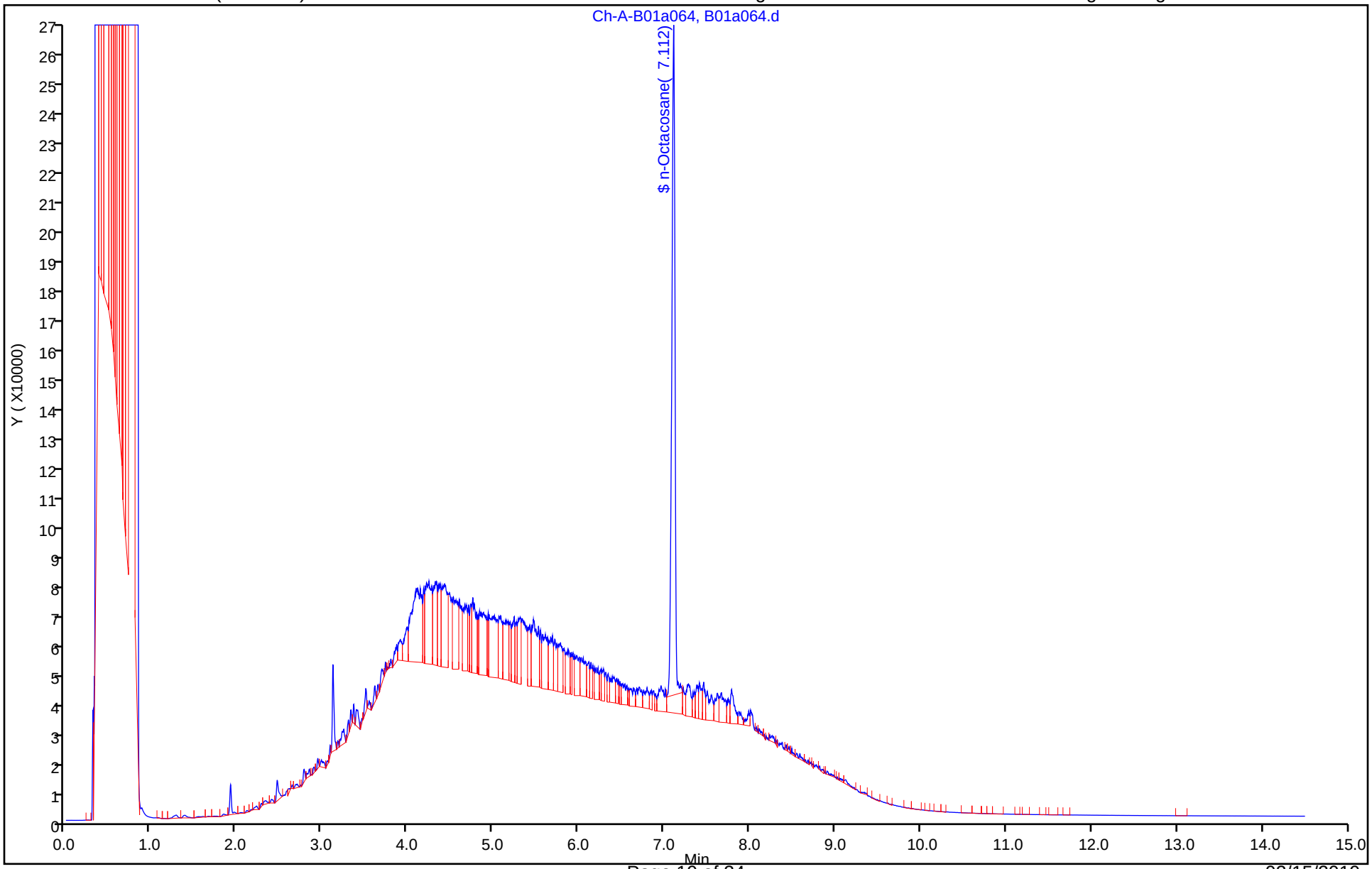
Report Date: 04-Feb-2019 17:42:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a064.d

Injection Date:	02-Feb-2019 10:14:43	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91071-F-4-A	Lab Sample ID:	440-91071-4	Worklist Smp#:	64
Client ID:	DG-AJ13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a064.d				
Lims ID:	720-91071-F-4-A				
Client ID:	DG-AJ13W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 10:14:43	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:42:30	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:42:30

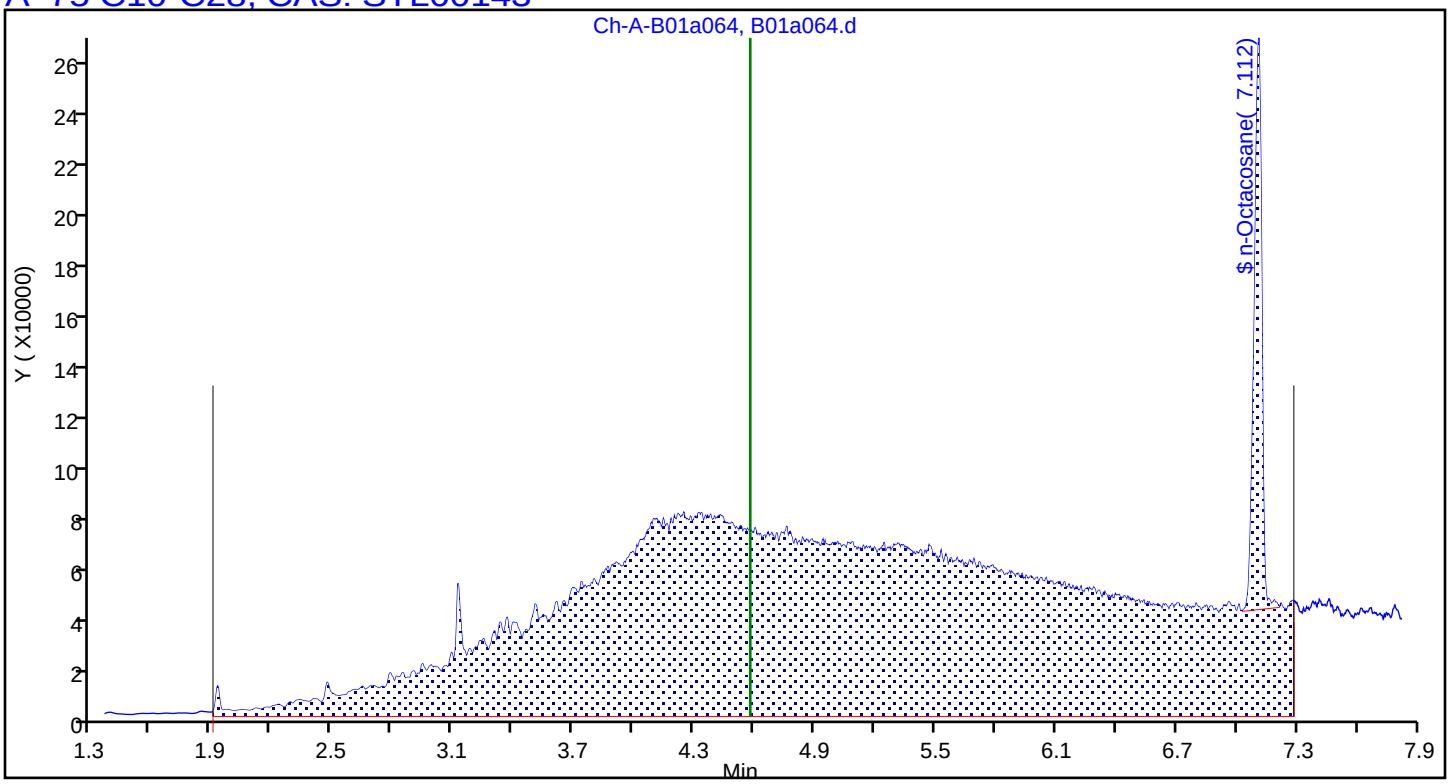
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	172.5	86.25

Report Date: 04-Feb-2019 17:42:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a064.d				
Injection Date:	02-Feb-2019 10:14:43	Instrument ID:	GC69A		
Lims ID:	720-91071-F-4-A	Lab Sample ID:	440-91071-4		
Client ID:	DG-AJ13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

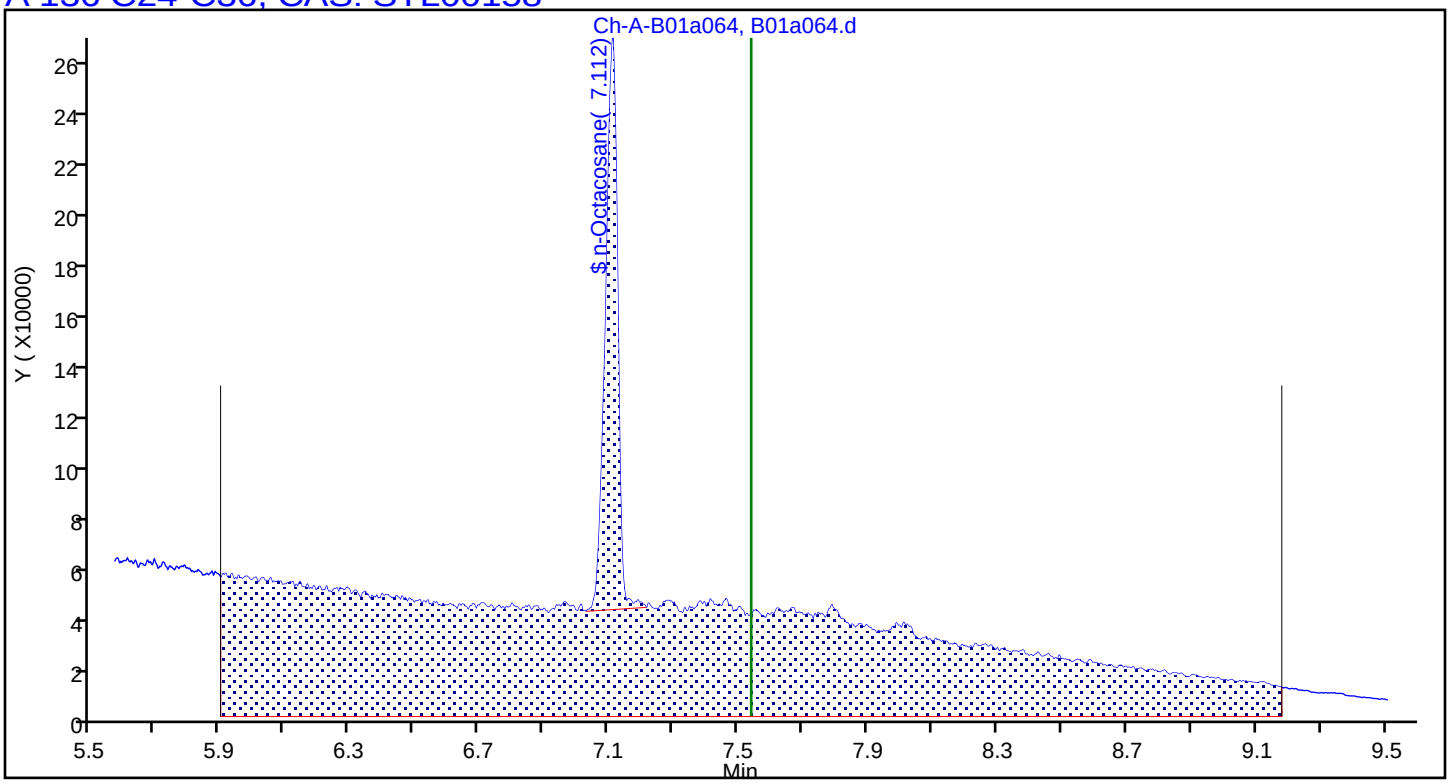


Report Date: 04-Feb-2019 17:42:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a064.d				
Injection Date:	02-Feb-2019 10:14:43	Instrument ID:	GC69A		
Lims ID:	720-91071-F-4-A	Lab Sample ID:	440-91071-4		
Client ID:	DG-AJ13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a061.d				
Lims ID:	720-91071-G-5-A				
Client ID:	DG-AH13W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 09:13:16	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:41:42	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:41:42		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.579	(1.872-7.287)		22468022	6800.7	
$ 127 n-Octacosane	7.110	7.097	0.013	300368	92.2	
A 136 C24-C36	7.540	(5.898-9.182)		10413733	3152.0	

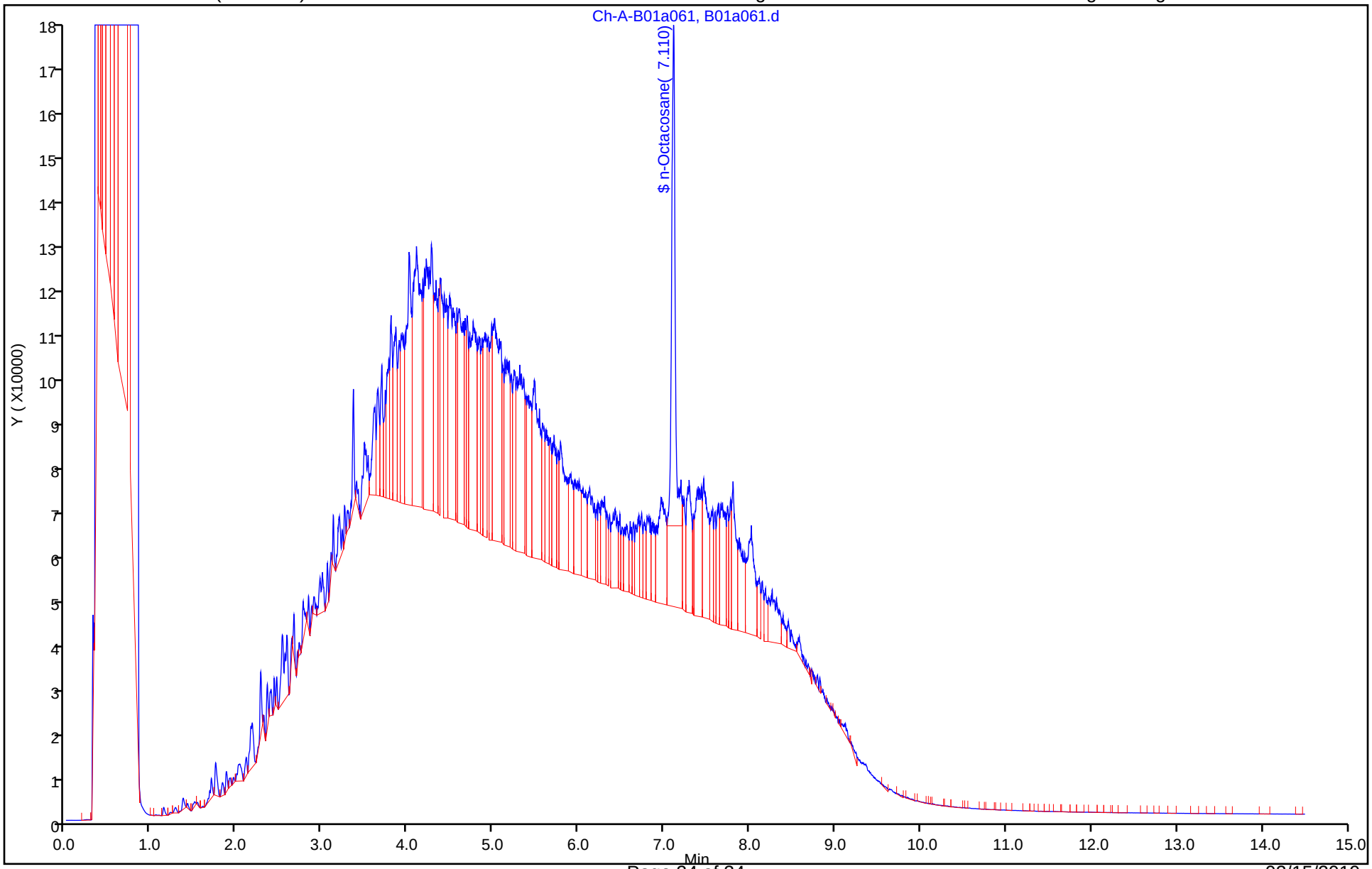
Report Date: 04-Feb-2019 17:41:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a061.d

Injection Date:	02-Feb-2019 09:13:16	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91071-G-5-A	Lab Sample ID:	440-91071-5	Worklist Smp#:	61
Client ID:	DG-AH13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a061.d				
Lims ID:	720-91071-G-5-A				
Client ID:	DG-AH13W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 09:13:16	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:41:42	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:41:42

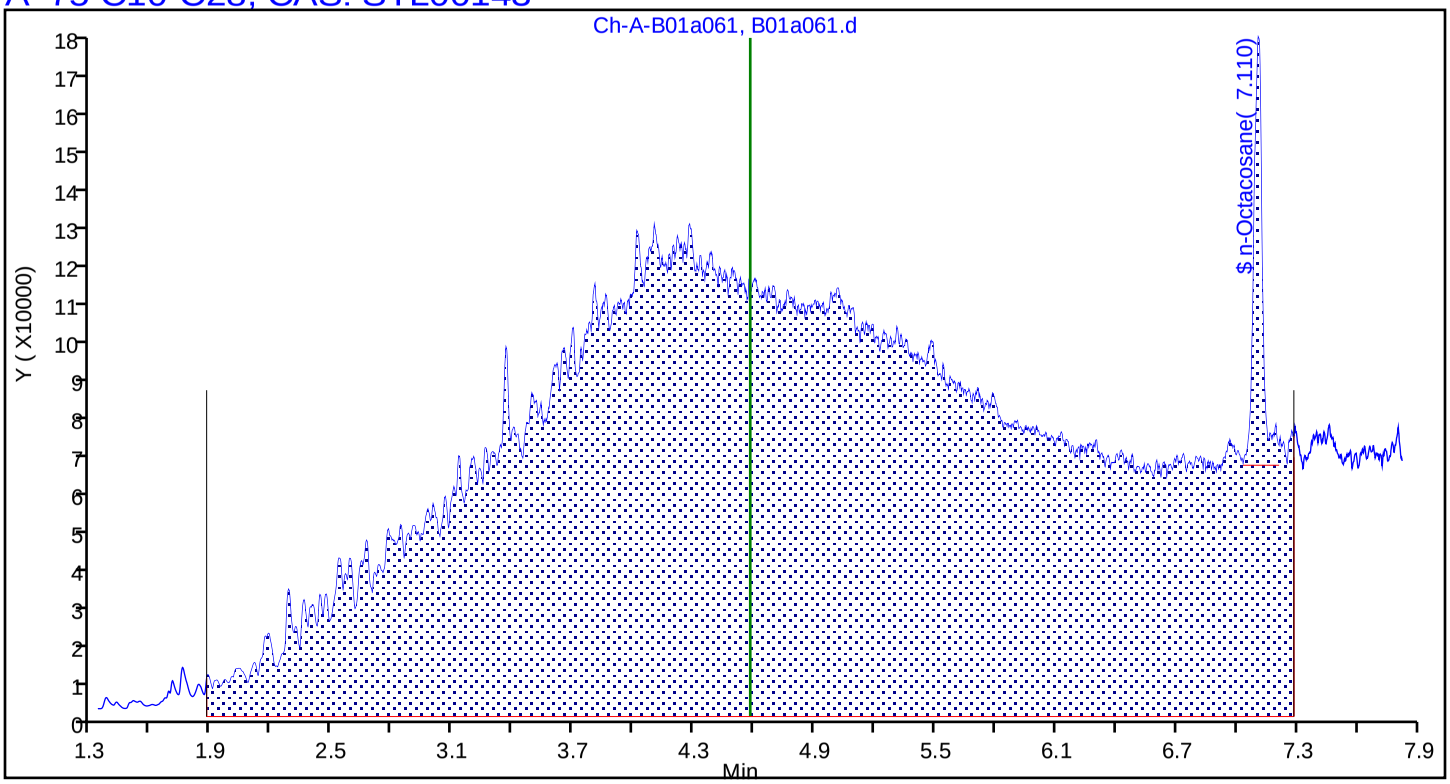
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	92.2	92.19

Report Date: 04-Feb-2019 17:41:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a061.d				
Injection Date:	02-Feb-2019 09:13:16	Instrument ID:	GC69A		
Lims ID:	720-91071-G-5-A	Lab Sample ID:	440-91071-5		
Client ID:	DG-AH13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

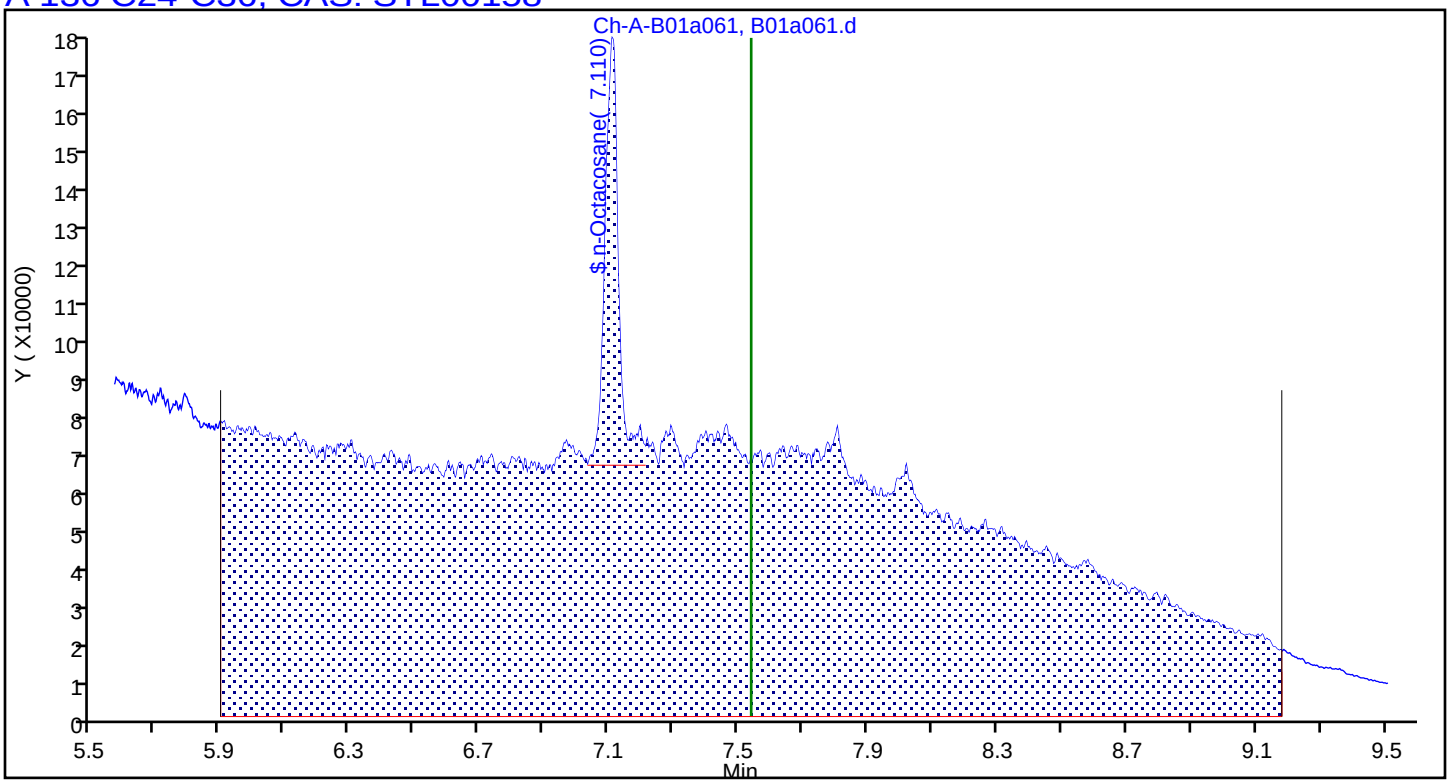


Report Date: 04-Feb-2019 17:41:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a061.d				
Injection Date:	02-Feb-2019 09:13:16	Instrument ID:	GC69A		
Lims ID:	720-91071-G-5-A	Lab Sample ID:	440-91071-5		
Client ID:	DG-AH13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a065.d				
Lims ID:	720-91071-G-6-A				
Client ID:	DG-W15W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 10:34:54	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:42:47	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				
First Level Reviewer: barnettl		Date:	04-Feb-2019 17:42:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.579	(1.872-7.287)		1714640	519.0	
$ 127 n-Octacosane	7.093	7.097	-0.004	302611	92.9	
A 136 C24-C36	7.540	(5.898-9.182)		1820413	551.0	

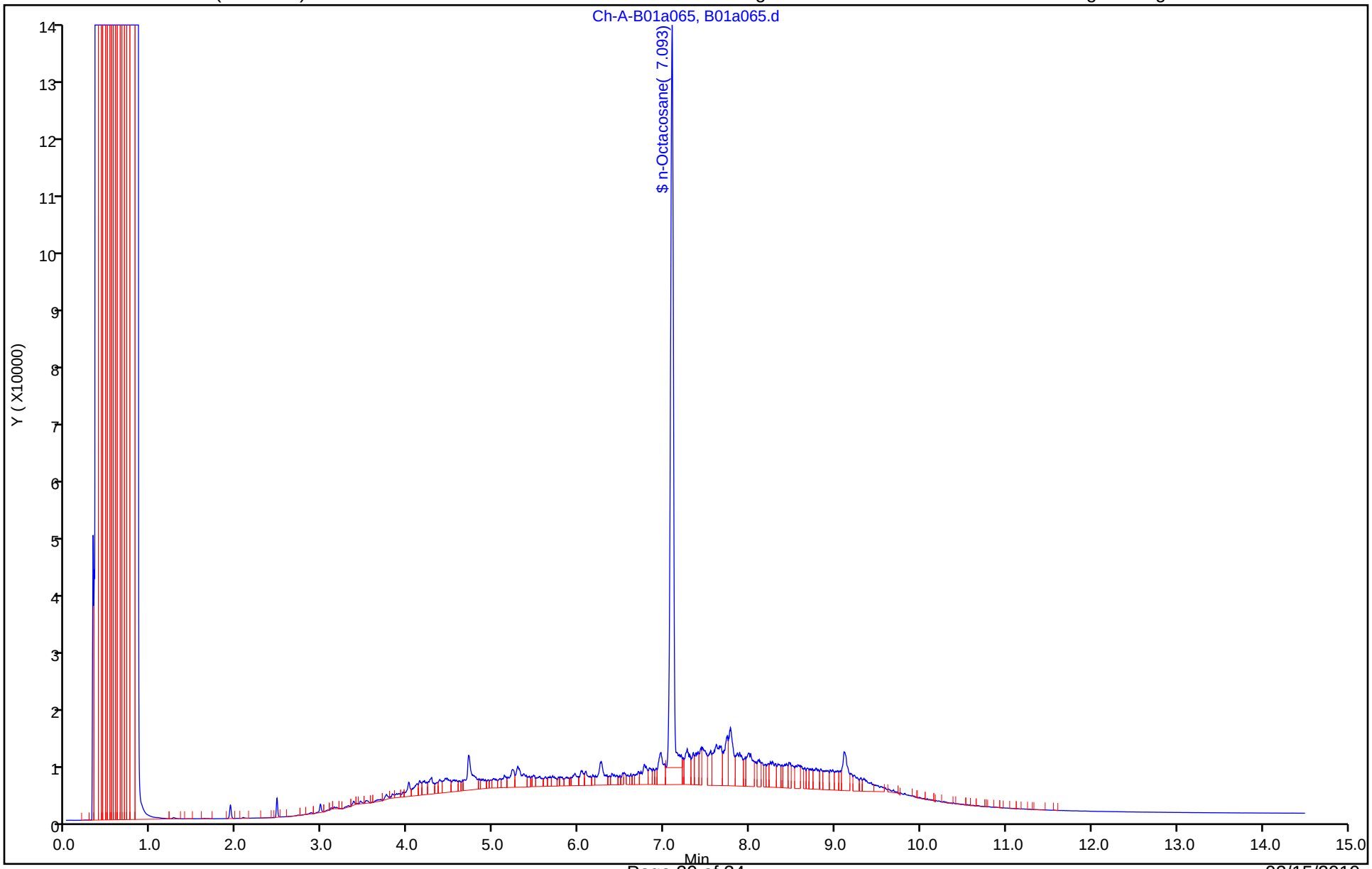
Report Date: 04-Feb-2019 17:42:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a065.d

Injection Date:	02-Feb-2019 10:34:54	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91071-G-6-A	Lab Sample ID:	440-91071-6	Worklist Smp#:	65
Client ID:	DG-W15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a065.d				
Lims ID:	720-91071-G-6-A				
Client ID:	DG-W15W				
Sample Type:	Client				
Inject. Date:	02-Feb-2019 10:34:54	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	04-Feb-2019 17:42:47	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0313				

First Level Reviewer: barnettl Date: 04-Feb-2019 17:42:47

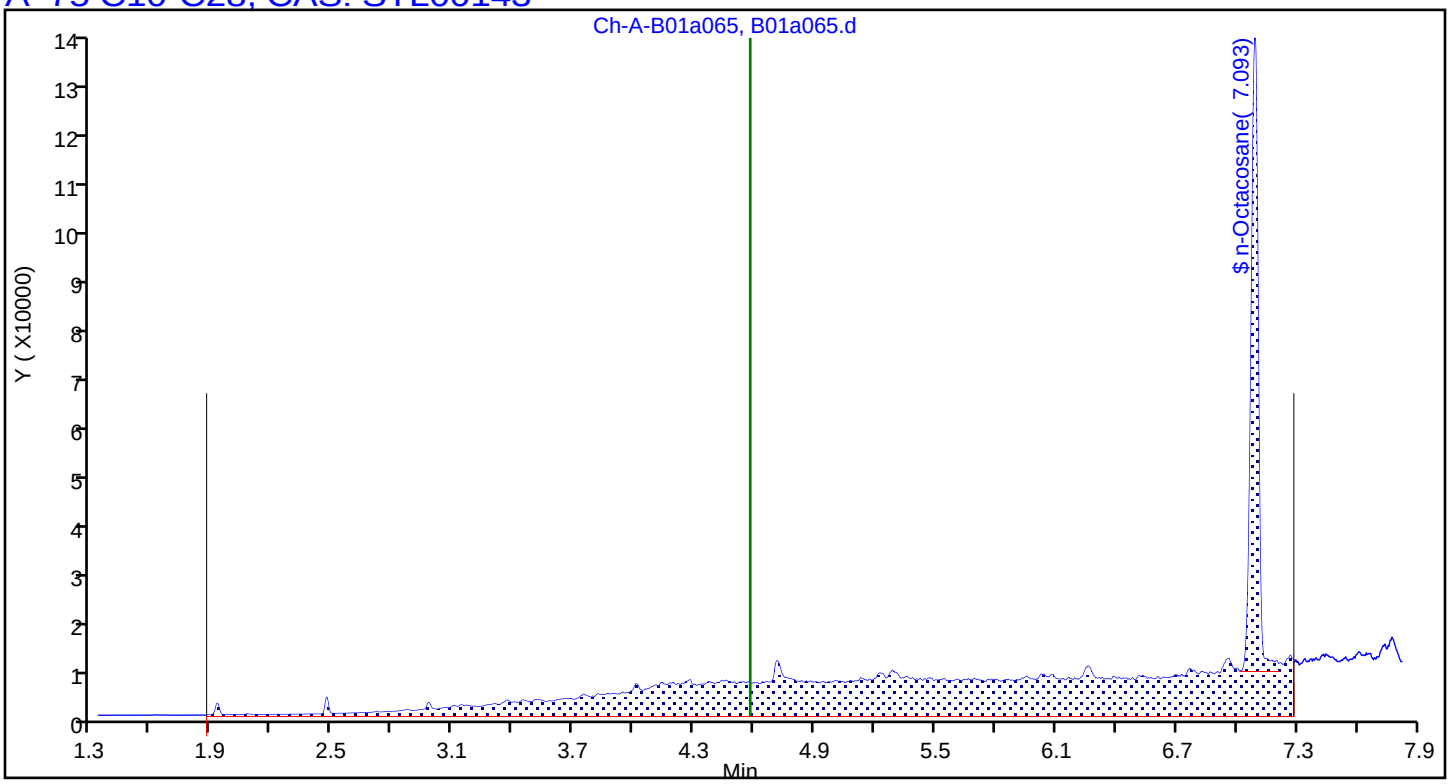
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	92.9	92.88

Report Date: 04-Feb-2019 17:42:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a065.d				
Injection Date:	02-Feb-2019 10:34:54	Instrument ID:	GC69A		
Lims ID:	720-91071-G-6-A	Lab Sample ID:	440-91071-6		
Client ID:	DG-W15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

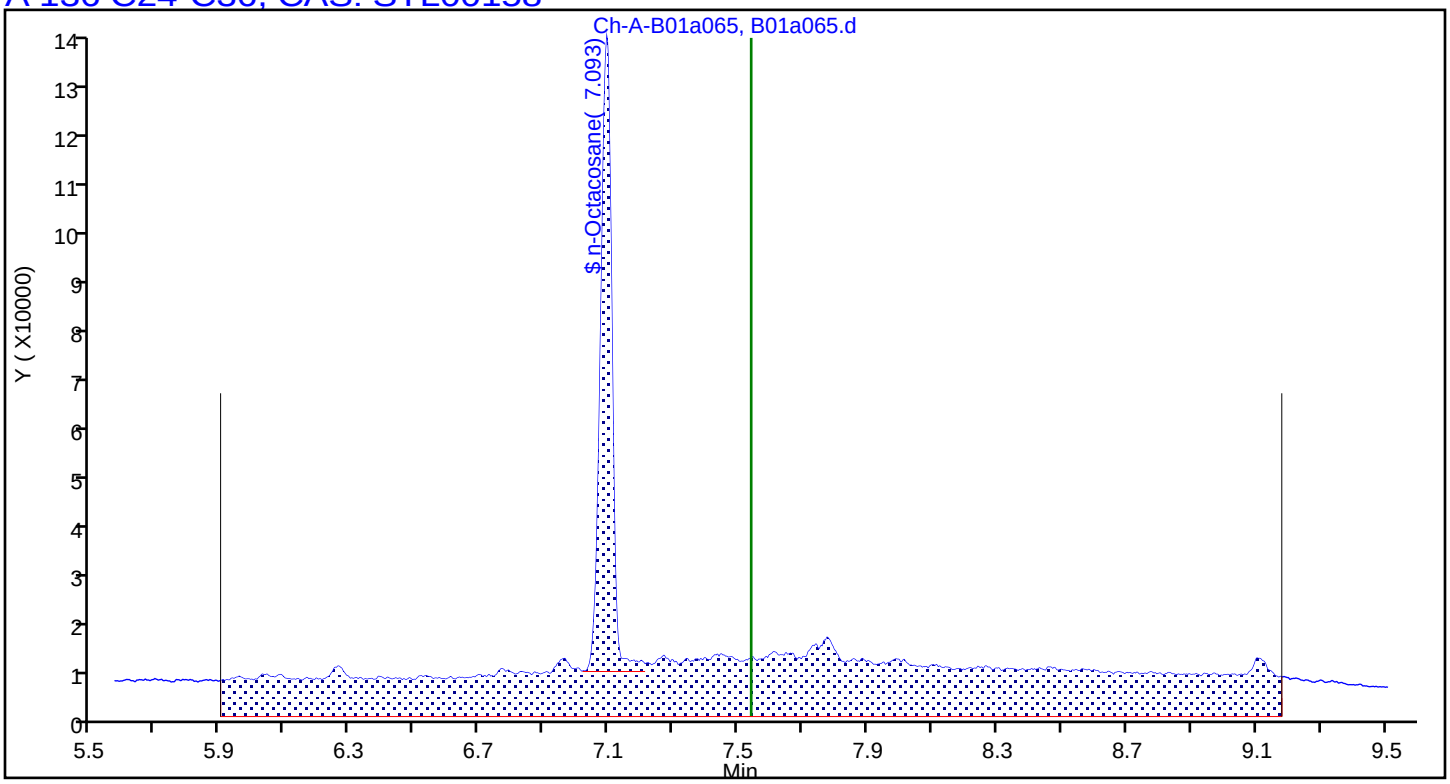


Report Date: 04-Feb-2019 17:42:47 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190201-115003.b\B01a065.d				
Injection Date:	02-Feb-2019 10:34:54	Instrument ID:	GC69A		
Lims ID:	720-91071-G-6-A	Lab Sample ID:	440-91071-6		
Client ID:	DG-W15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

720-91071

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#18251
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 29 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schachman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91071 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-AK11w	29 Jan. 2019	0740	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-R13w		0820											
DG-AL13w		1030											
DG-AJ13w		1230											
DG-AH13w		1250											
DG-W15w		1530	↓	↓	↓	↓		↓	↓	↓	↓	↓	
TB-01.29.19		–			2			X					
FB-01.29.19	↓	–			2			X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

0.6°C, 0.3°C, 0.3°C, 0.9°C, 1.2°C, 2.7°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____		Therm ID No. ____
Relinquished by	Company Geosyntec	Date/Time 29 Jan. 2019	Received by	Company	Date/Time 1-29-19 16:25
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1-29-19 18:25

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3208	COC No: 720-40995.1
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91071-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/8/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	HOLD 1/29/19 NCM	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DG-AK11W (720-91071-1)	1/29/19	07:40 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-R13W (720-91071-2)	1/29/19	08:20 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AL13W (720-91071-3)	1/29/19	10:30 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AJ13W (720-91071-4)	1/29/19	12:30 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AH13W (720-91071-5)	1/29/19	12:50 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-W15W (720-91071-6)	1/29/19	15:30 Pacific		Water			X	X	X	X		7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-1.29 19 (720-91071-7)	1/29/19	Pacific		Water			X	X				2	check for 2 phases
FB-1.29.19 (720-91071-8)	1/29/19	Pacific		Water			X	X				2	check for 2 phases
DG-T17W (720-91071-9)	1/29/19	08:40 Pacific		Water					X	X	X	1	check for 2 phases-Use Gravity Separation Protocal- client specific

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/30/19 1233	TAPLS		1/31/19 9:45	TA PLS
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6/2.2 3.4/3.4 2.9/2.9 IR-88 IR-93

Ver 09/20/2016

02/15/2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91088-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Laura Turpen
Project Manager I
2/15/2019 1:50 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/15/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Method 8015B - DRO Sample Data 3
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TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a036.d				
Lims ID:	720-91088-F-1-A				
Client ID:	DG-W7W				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 00:04:07	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:47:43	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:47:43		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		319496	88.2	
$ 127 n-Octacosane	7.020	7.033	-0.013	570117	155.0	
A 135 C24-C36	7.468	(5.837-9.098)		263733	72.8	

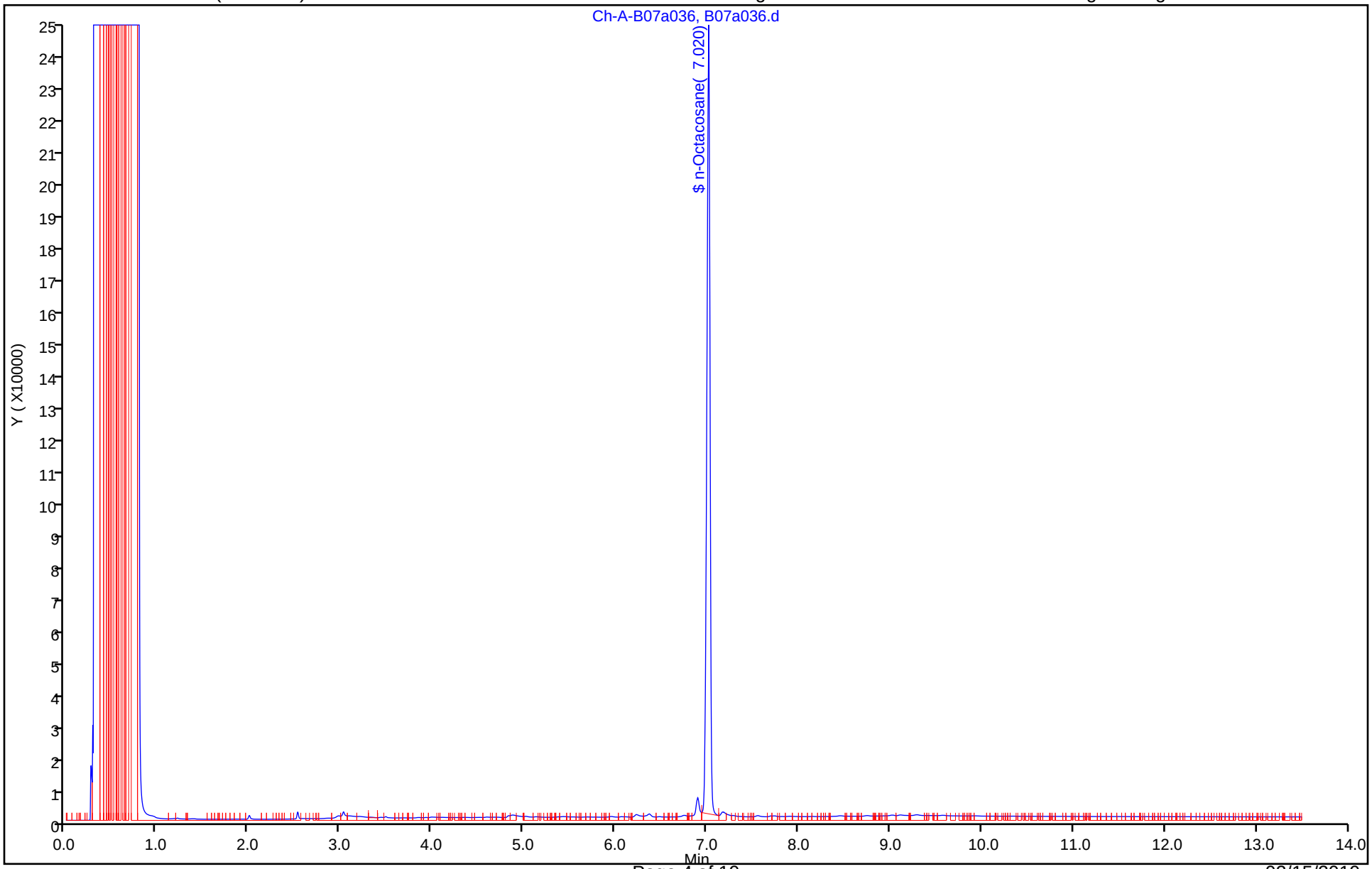
Report Date: 08-Feb-2019 07:47:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a036.d

Injection Date:	08-Feb-2019 00:04:07	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91088-F-1-A	Lab Sample ID:	440-91088-1	Worklist Smp#:	36
Client ID:	DG-W7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a036.d				
Lims ID:	720-91088-F-1-A				
Client ID:	DG-W7W				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 00:04:07	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:47:43	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				

First Level Reviewer: doanm Date: 08-Feb-2019 07:47:43

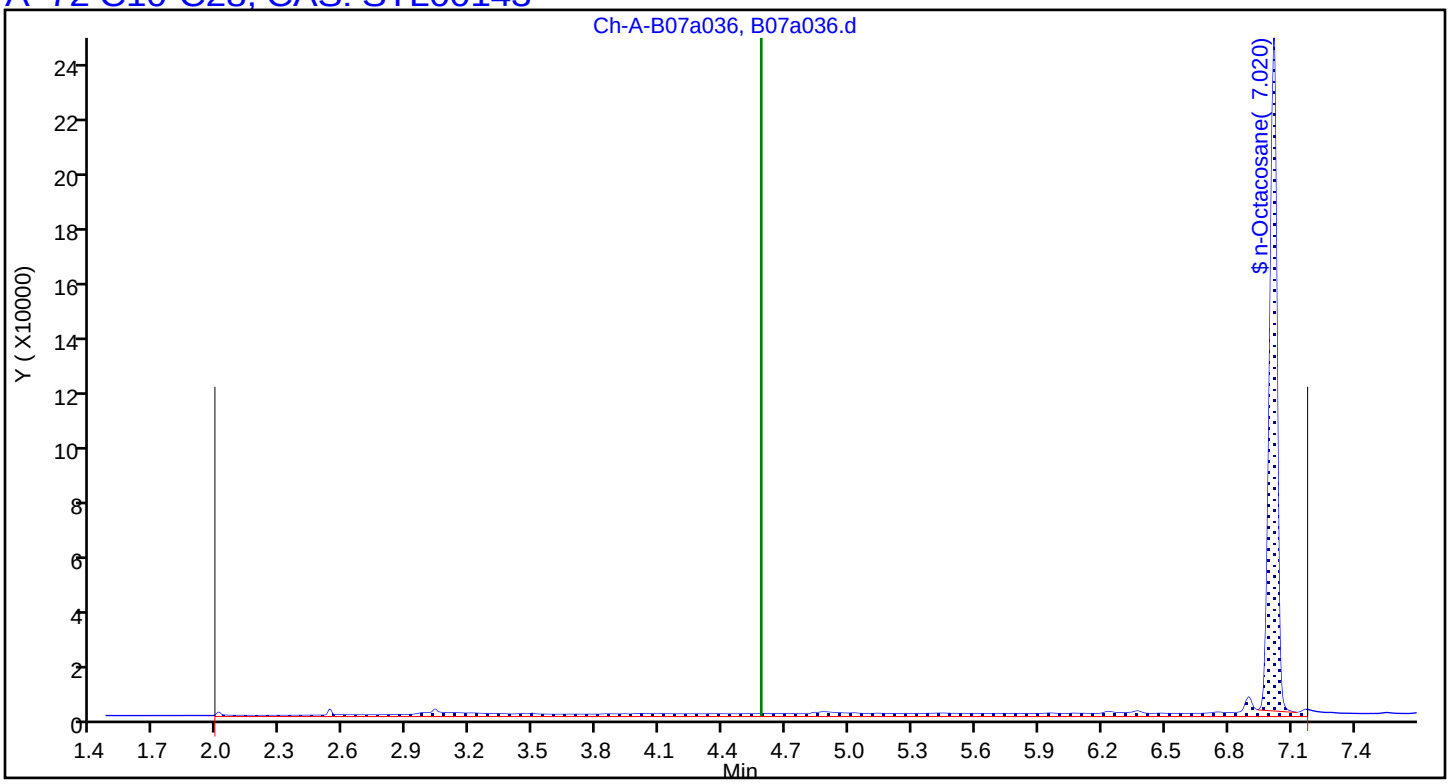
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	155.0	77.49
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 08-Feb-2019 07:47:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a036.d				
Injection Date:	08-Feb-2019 00:04:07	Instrument ID:	GC70A		
Lims ID:	720-91088-F-1-A	Lab Sample ID:	440-91088-1		
Client ID:	DG-W7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

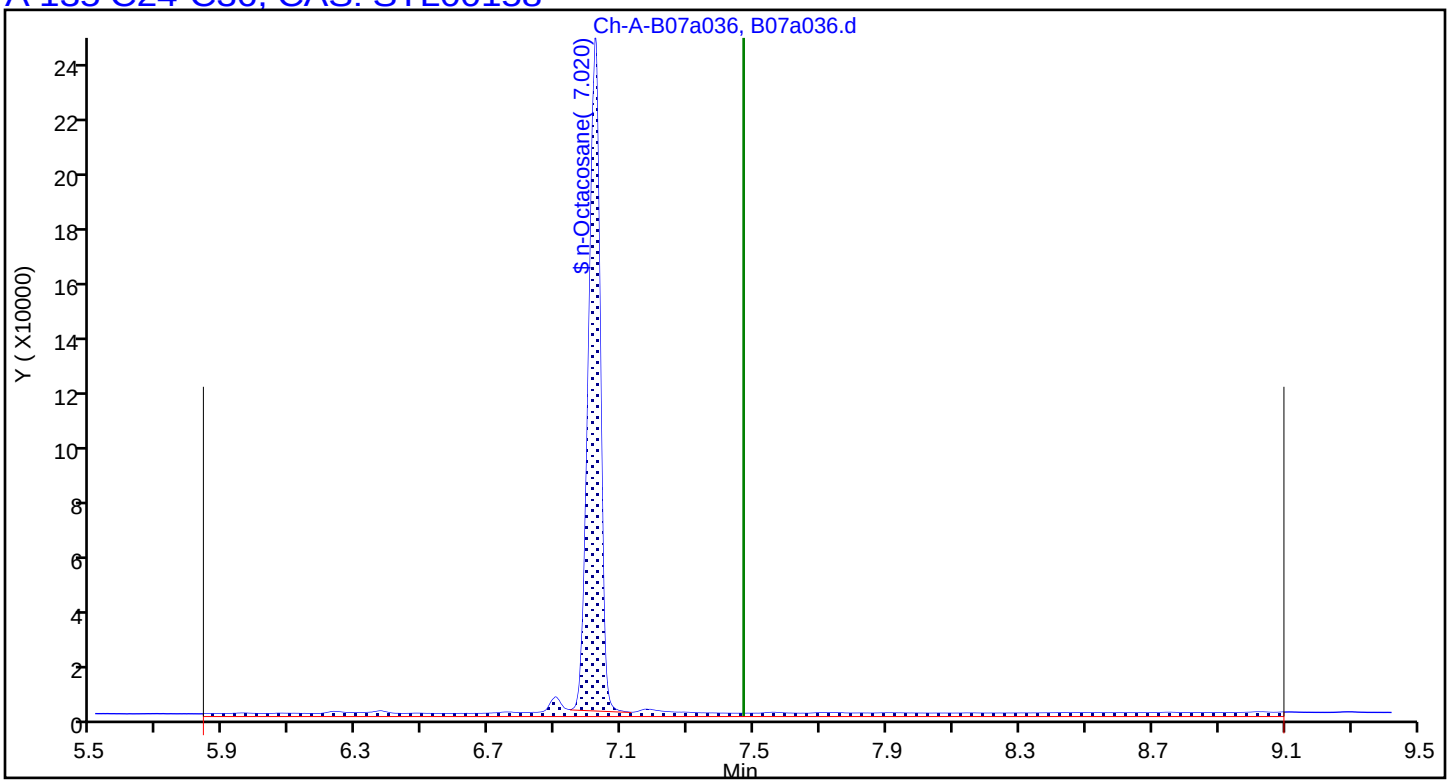


Report Date: 08-Feb-2019 07:47:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a036.d				
Injection Date:	08-Feb-2019 00:04:07	Instrument ID:	GC70A		
Lims ID:	720-91088-F-1-A	Lab Sample ID:	440-91088-1		
Client ID:	DG-W7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a035.d				
Lims ID:	720-91088-G-2-A				
Client ID:	DG-R5W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 23:42:54	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:47:28	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:47:28		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		792996	218.9	
$ 127 n-Octacosane	7.022	7.033	-0.011	494694	134.5	
A 135 C24-C36	7.468	(5.837-9.098)		430000	118.7	

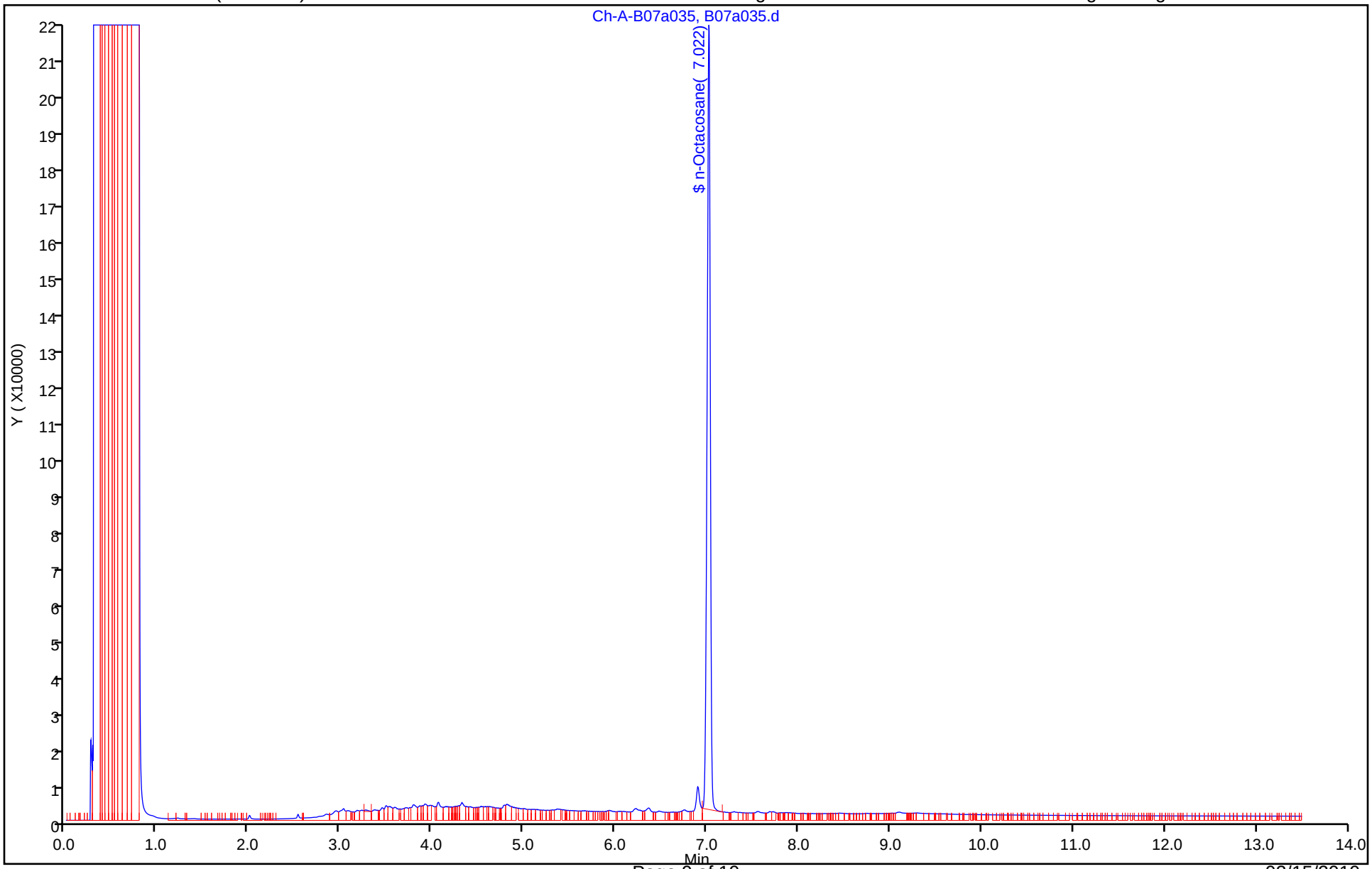
Report Date: 08-Feb-2019 07:47:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a035.d

Injection Date:	07-Feb-2019 23:42:54	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91088-G-2-A	Lab Sample ID:	440-91088-2	Worklist Smp#:	35
Client ID:	DG-R5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a035.d				
Lims ID:	720-91088-G-2-A				
Client ID:	DG-R5W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 23:42:54	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:47:28	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				

First Level Reviewer: doanm Date: 08-Feb-2019 07:47:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	134.5	67.23
$ 178 n-Triacontane-d62	0.0	0	0.00

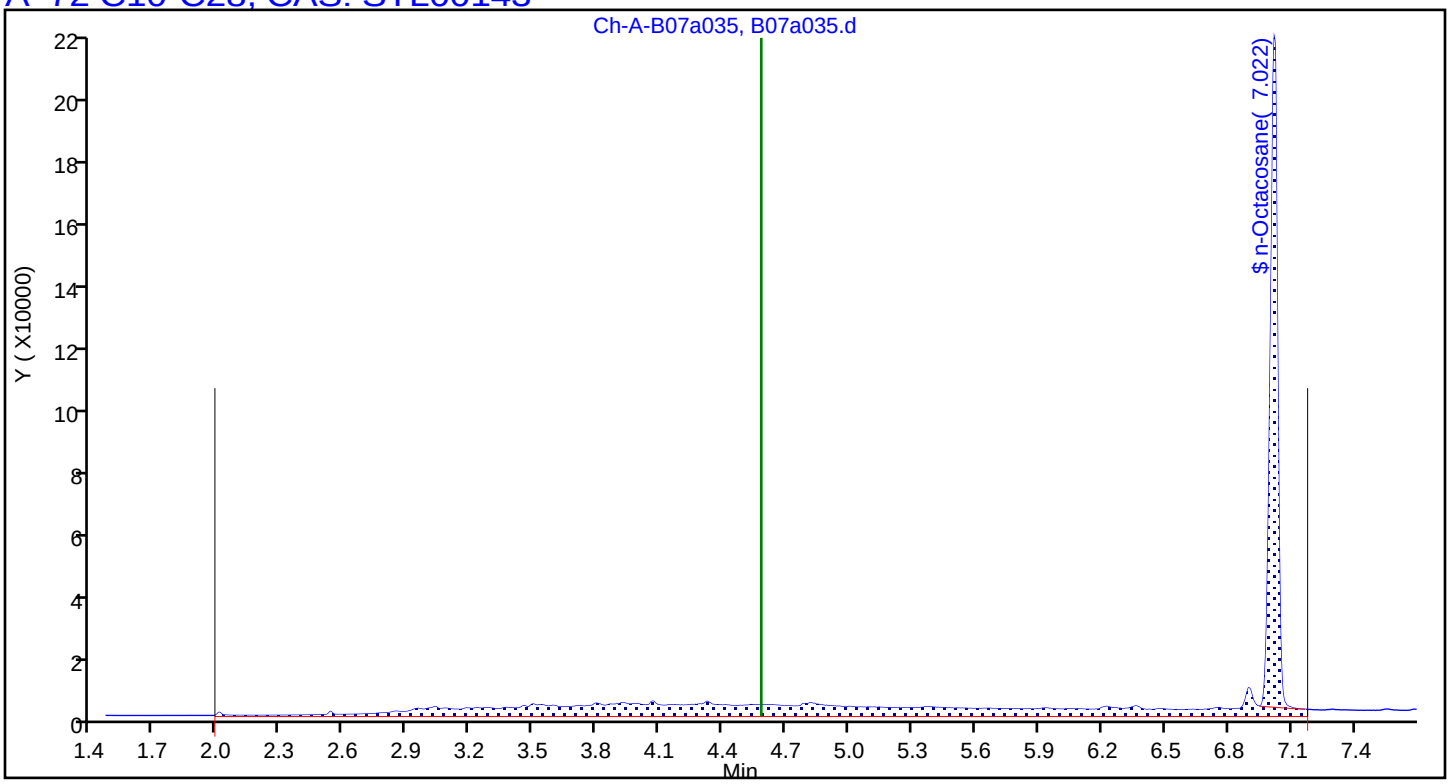
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a035.d

Injection Date:	07-Feb-2019 23:42:54	Instrument ID:	GC70A		
Lims ID:	720-91088-G-2-A	Lab Sample ID:	440-91088-2		
Client ID:	DG-R5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

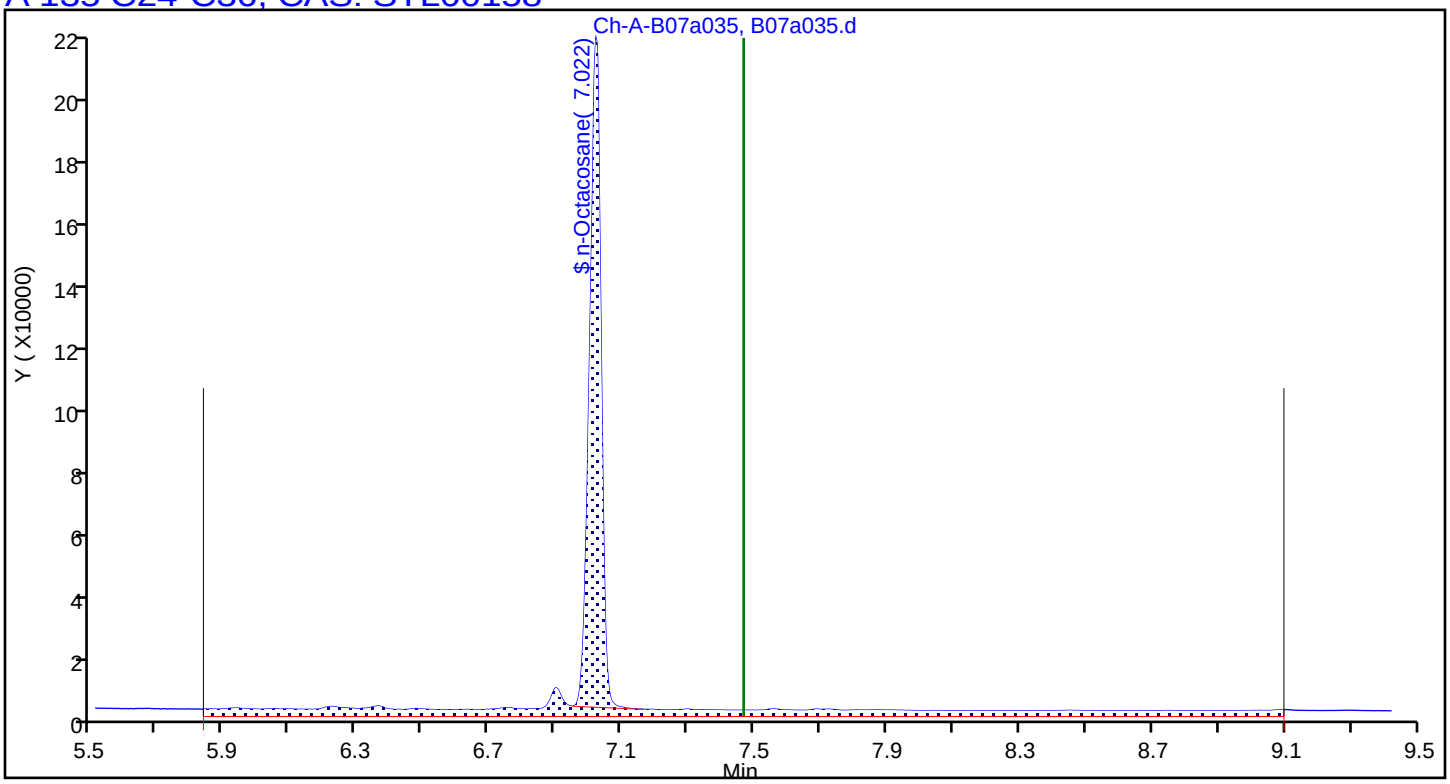


Report Date: 08-Feb-2019 07:47:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a035.d				
Injection Date:	07-Feb-2019 23:42:54	Instrument ID:	GC70A		
Lims ID:	720-91088-G-2-A	Lab Sample ID:	440-91088-2		
Client ID:	DG-R5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a033.d				
Lims ID:	720-91088-K-3-A				
Client ID:	DG-AA11W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 23:00:21	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:46:42	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:46:42		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		17163872	4738.6	
$ 127 n-Octacosane	7.022	7.033	-0.011	499874	135.9	
A 135 C24-C36	7.468	(5.837-9.098)		2555006	705.4	

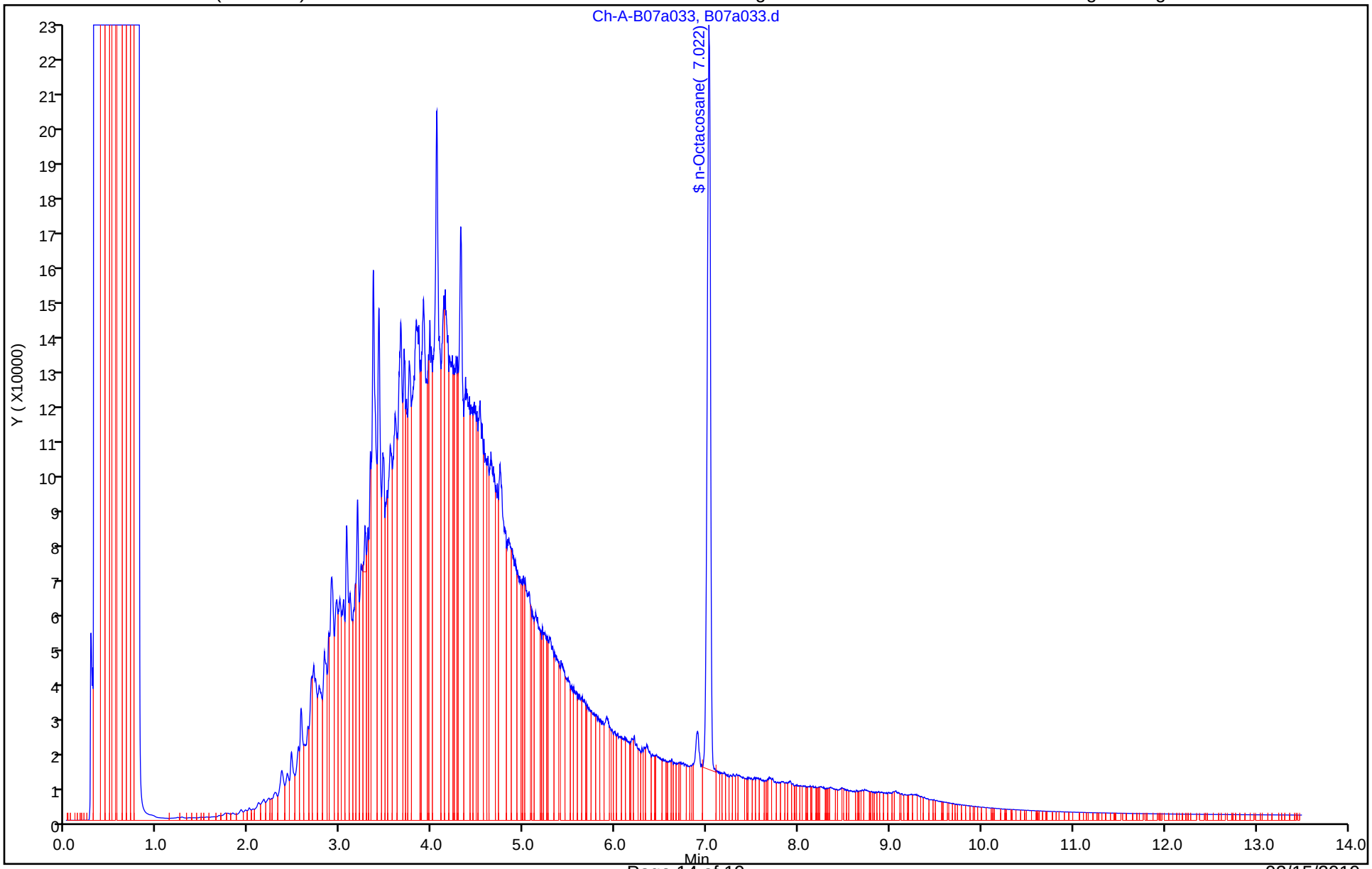
Report Date: 08-Feb-2019 07:46:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a033.d

Injection Date:	07-Feb-2019 23:00:21	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91088-K-3-A	Lab Sample ID:	440-91088-3	Worklist Smp#:	33
Client ID:	DG-AA11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a033.d				
Lims ID:	720-91088-K-3-A				
Client ID:	DG-AA11W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 23:00:21	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:46:42	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				

First Level Reviewer: doanm Date: 08-Feb-2019 07:46:42

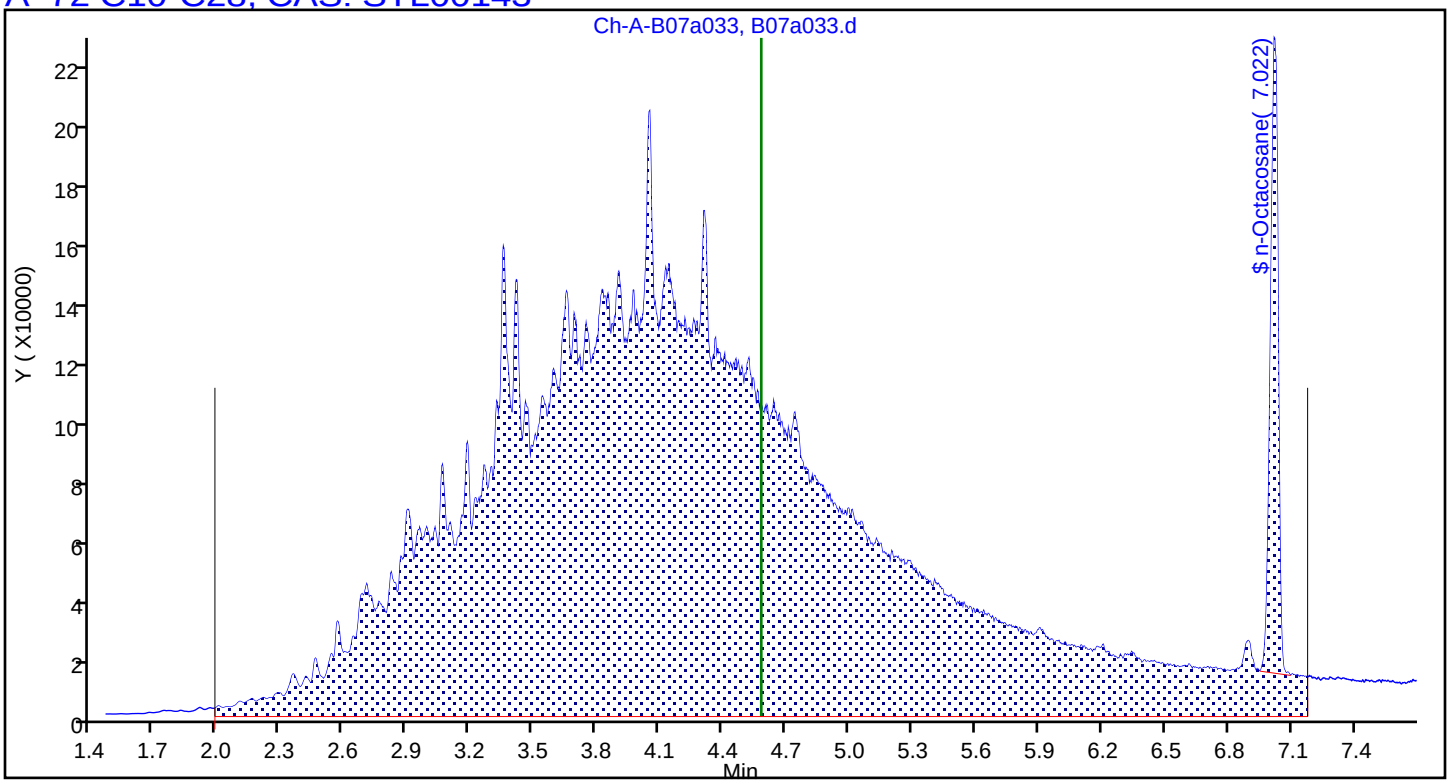
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	135.9	67.94
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 08-Feb-2019 07:46:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a033.d				
Injection Date:	07-Feb-2019 23:00:21	Instrument ID:	GC70A		
Lims ID:	720-91088-K-3-A	Lab Sample ID:	440-91088-3		
Client ID:	DG-AA11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

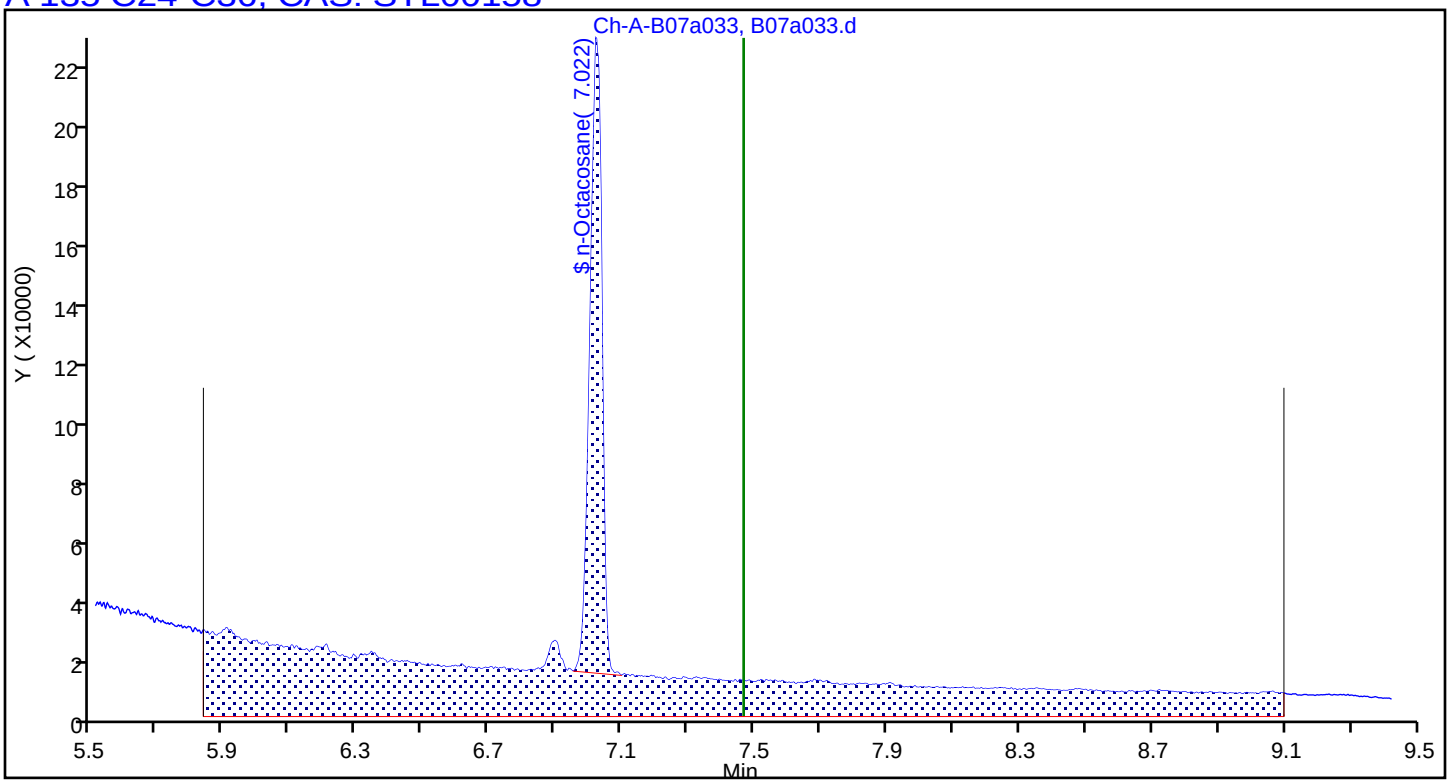


Report Date: 08-Feb-2019 07:46:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a033.d				
Injection Date:	07-Feb-2019 23:00:21	Instrument ID:	GC70A		
Lims ID:	720-91088-K-3-A	Lab Sample ID:	440-91088-3		
Client ID:	DG-AA11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-91088

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
108175
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schantman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91088 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
DG-W7w	30 Jan. 2019	0930	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
DG-R5w		1000											
DG-AA11w		1250											
DG-W11w		1530			3								
FB - 01.30.19		—			2								
TB - 01.30.19		—			2								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.7°C, 1.0°C, 0.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp.(°C) Obs'd ____	Corr'd ____	Therm ID No. ____
Relinquished by	Company Geosyntec	Date/Time 16.00 30 Jan. 2019	Received by	Company TAPLS	Date/Time 1-30-19 16:30
Relinquished by	Company TAPLS	Date/Time 18:45 1-30-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA PLS	Date/Time 1-30-19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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02/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3366	COC No: 720-41012.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91088-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/11/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-W7W (720-91088-1)	1/30/19	09:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-R5W (720-91088-2)	1/30/19	10:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AA11W (720-91088-3)	1/30/19	12:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-W11W (720-91088-4)	1/30/19	15:30 Pacific		Water			X	X	X	X	3	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-01.30.19 (720-91088-5)	1/30/19	Pacific		Water			X	X			2	check for 2 phases
TB-01.30.19 (720-91088-6)	1/30/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 1/31/19 1259	Company: TAPLS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company	
Relinquished by:	Date/Time:	Company	Received by: Olga Quiroz	Date/Time: 2/1/19 1030	Company: TAIRU	
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No :		Cooler Temperature(s) °C and Other Remarks: 2.4/1.4 2.3/2.3 IR-88			

Ver: 09/20/2016

02/15/2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91089-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Laura Turpen
Project Manager I
2/15/2019 3:01 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/15/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Method 8015B - DRO Sample Data 3
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Client Chain of Custody 91

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a030.d				
Lims ID:	720-91089-E-1-A				
Client ID:	DG-AG7S-0.5-1				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 22:44:43	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:19:27	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:19:27		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		1110316	306.5	
$ 127 n-Octacosane	7.058	7.022	0.036	678389	184.4	
A 135 C24-C36	7.448	(5.797-9.100)		982000	271.1	

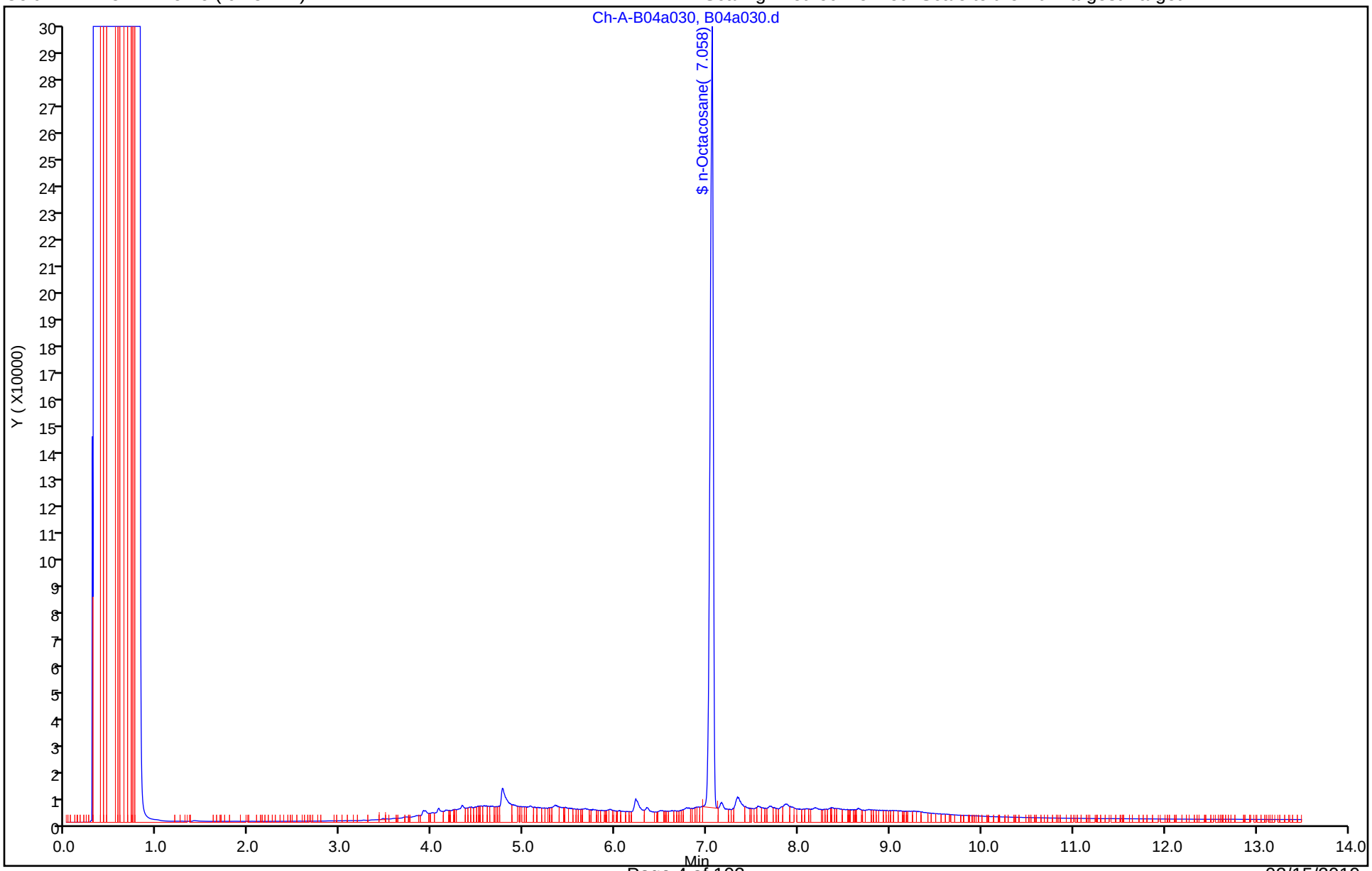
Report Date: 05-Feb-2019 11:19:27 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a030.d

Injection Date:	04-Feb-2019 22:44:43	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-1-A	Lab Sample ID:	440-91089-1	Worklist Smp#:	27
Client ID:	DG-AG7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a030.d				
Lims ID:	720-91089-E-1-A				
Client ID:	DG-AG7S-0.5-1				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 22:44:43	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:19:27	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:19:27

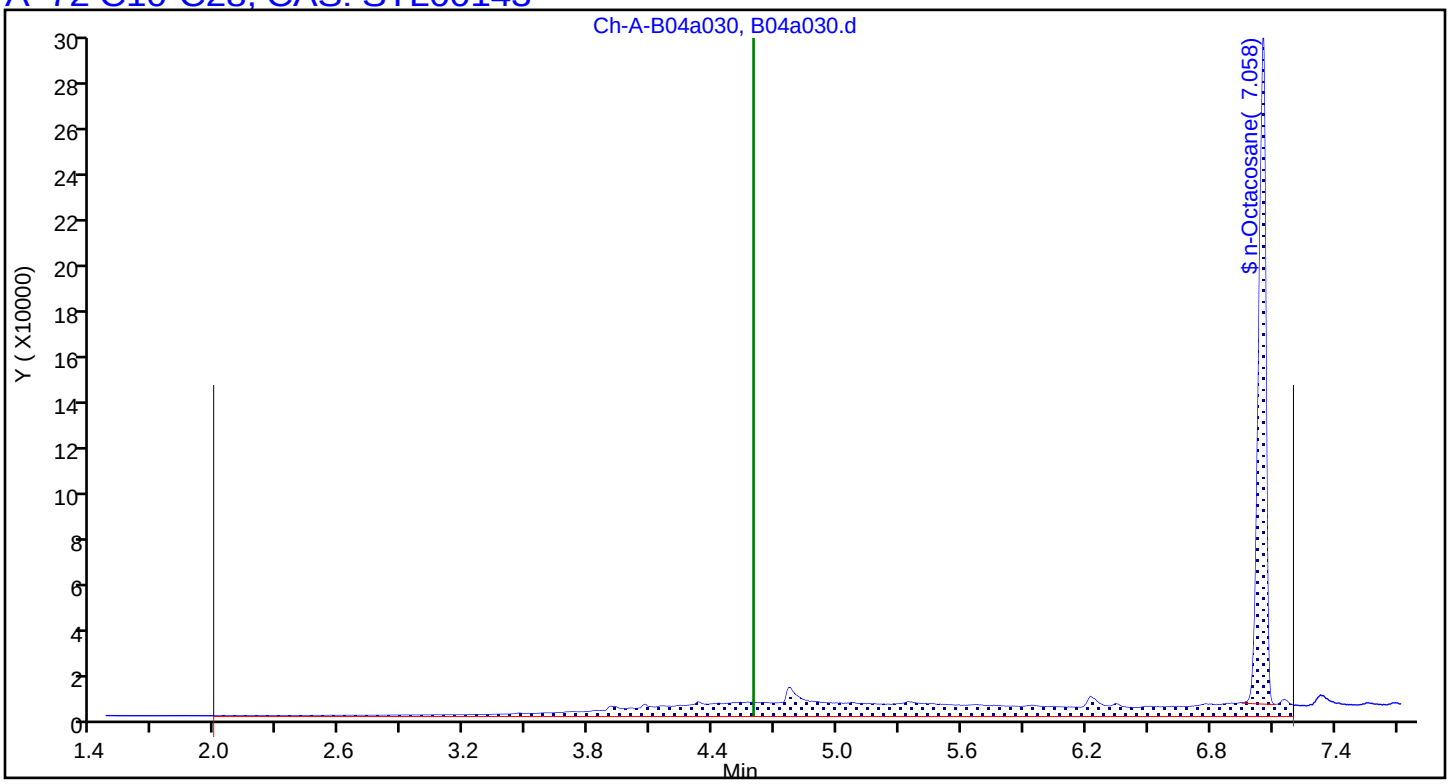
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	184.4	92.20
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:19:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a030.d				
Injection Date:	04-Feb-2019 22:44:43	Instrument ID:	GC70A		
Lims ID:	720-91089-E-1-A	Lab Sample ID:	440-91089-1		
Client ID:	DG-AG7S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

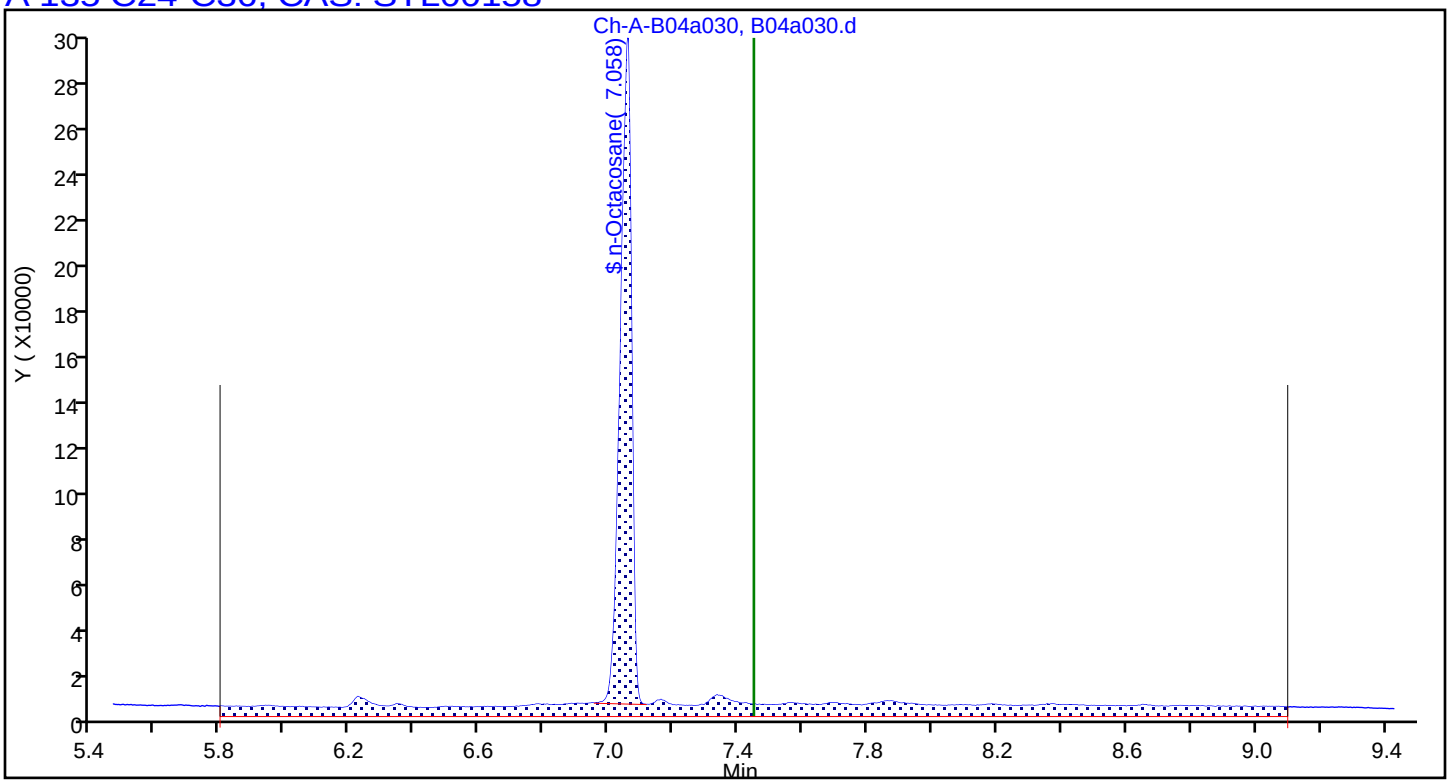


Report Date: 05-Feb-2019 11:19:28 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a030.d				
Injection Date:	04-Feb-2019 22:44:43	Instrument ID:	GC70A		
Lims ID:	720-91089-E-1-A	Lab Sample ID:	440-91089-1		
Client ID:	DG-AG7S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a038.d				
Lims ID:	720-91089-E-2-A				
Client ID:	DG-AG7S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 01:35:56	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:23:47	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:23:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		300824	83.1	
$ 127 n-Octacosane	7.052	7.022	0.030	649930	176.7	
A 135 C24-C36	7.448	(5.797-9.100)		271286	74.9	

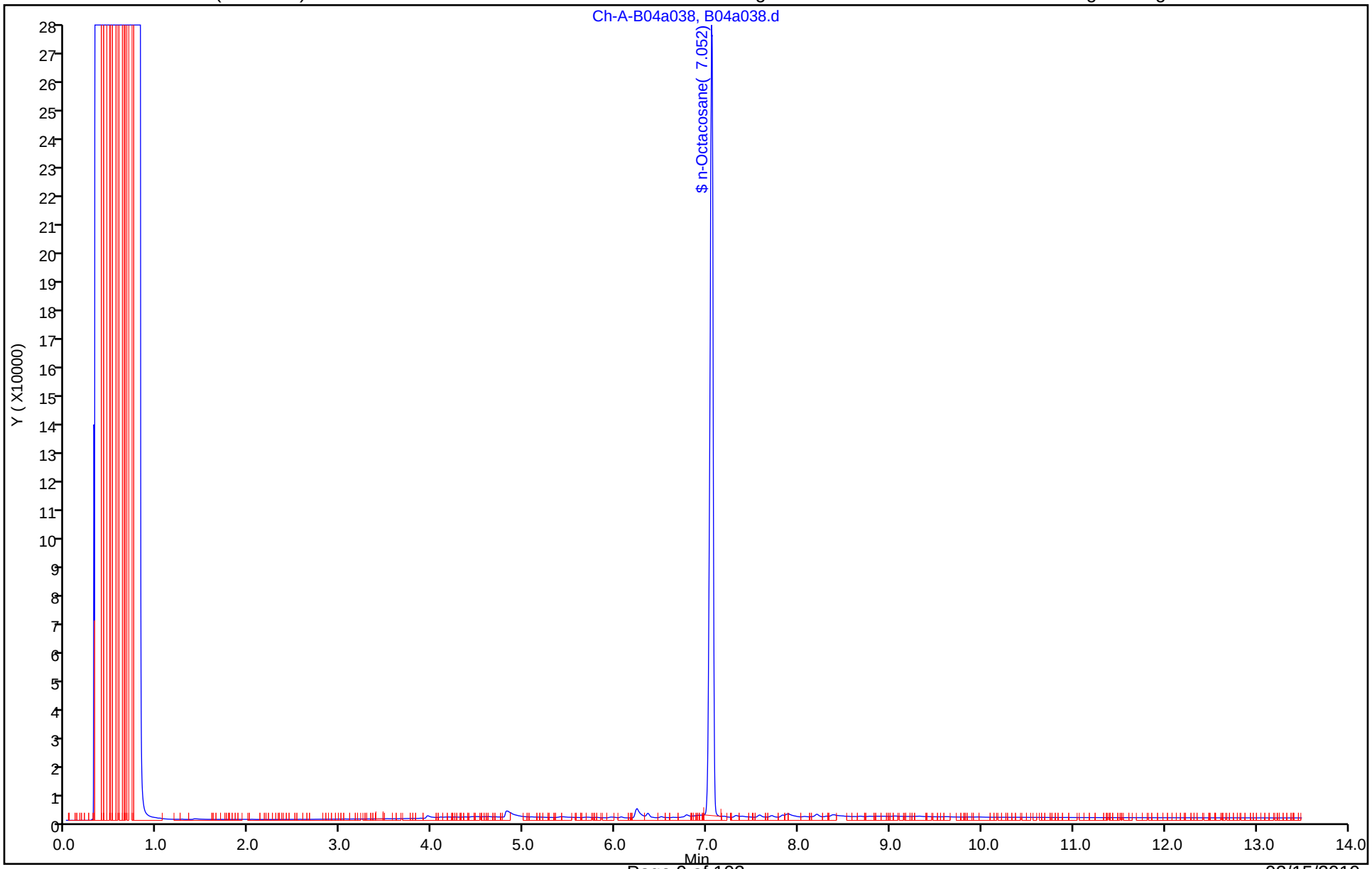
Report Date: 05-Feb-2019 11:23:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a038.d

Injection Date:	05-Feb-2019 01:35:56	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-2-A	Lab Sample ID:	440-91089-2	Worklist Smp#:	35
Client ID:	DG-AG7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a038.d				
Lims ID:	720-91089-E-2-A				
Client ID:	DG-AG7S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 01:35:56	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:23:47	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:23:47

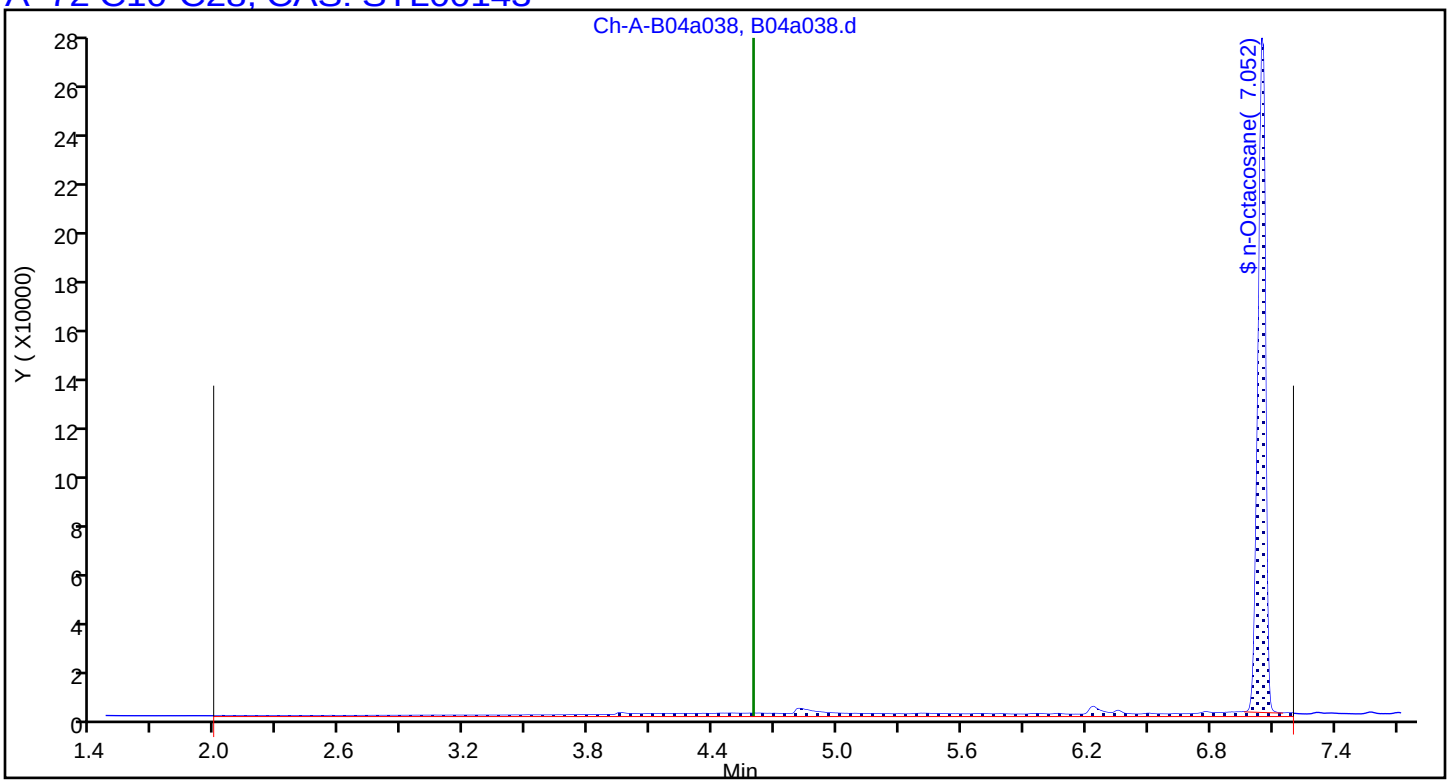
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	176.7	88.33
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:23:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a038.d				
Injection Date:	05-Feb-2019 01:35:56	Instrument ID:	GC70A		
Lims ID:	720-91089-E-2-A	Lab Sample ID:	440-91089-2		
Client ID:	DG-AG7S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

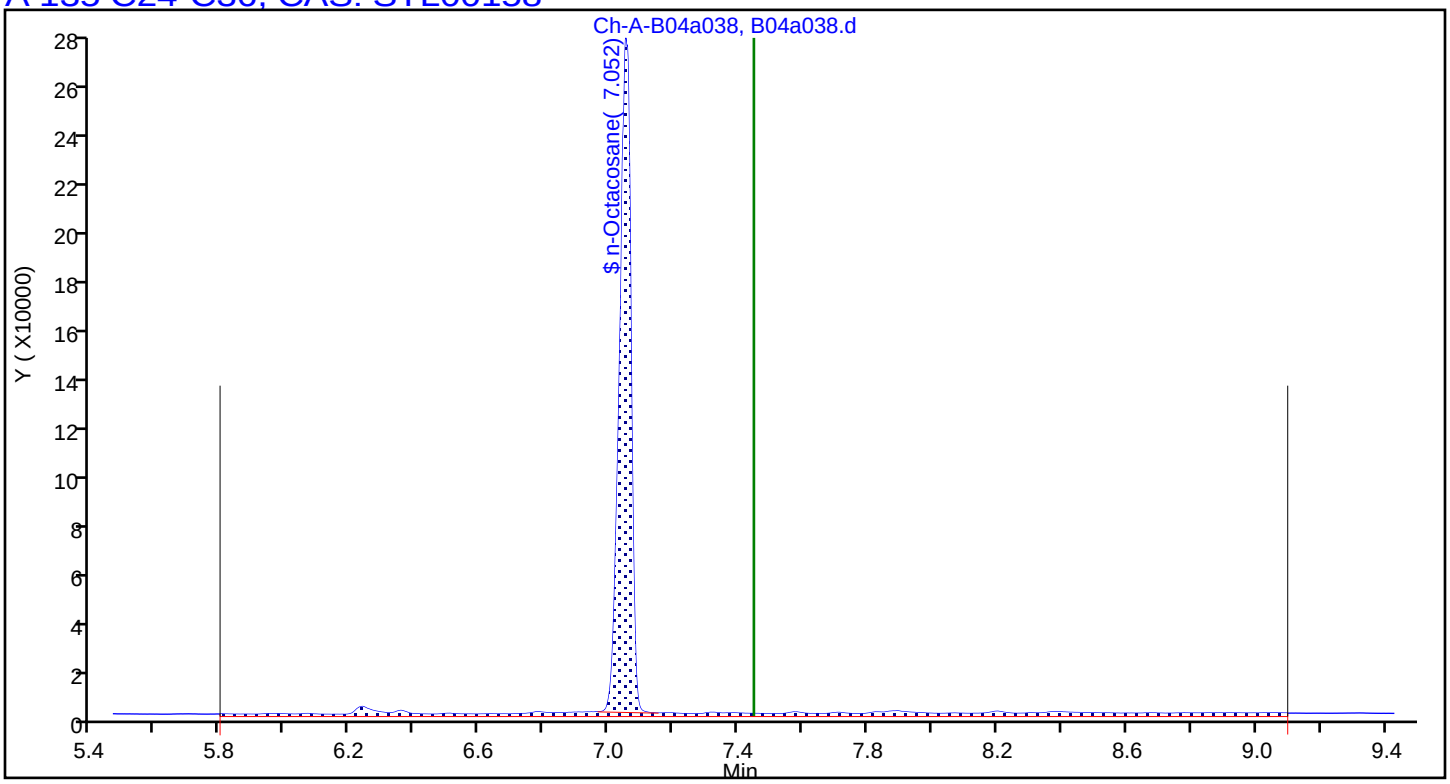


Report Date: 05-Feb-2019 11:23:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a038.d				
Injection Date:	05-Feb-2019 01:35:56	Instrument ID:	GC70A		
Lims ID:	720-91089-E-2-A	Lab Sample ID:	440-91089-2		
Client ID:	DG-AG7S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a032.d				
Lims ID:	720-91089-E-3-A				
Client ID:	DG-AB9S-0.5-1				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 23:27:33	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:20:13	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:20:13		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		1119914	309.2	
$ 127 n-Octacosane	7.050	7.022	0.028	504002	137.0	
A 135 C24-C36	7.448	(5.797-9.100)		1191794	329.0	

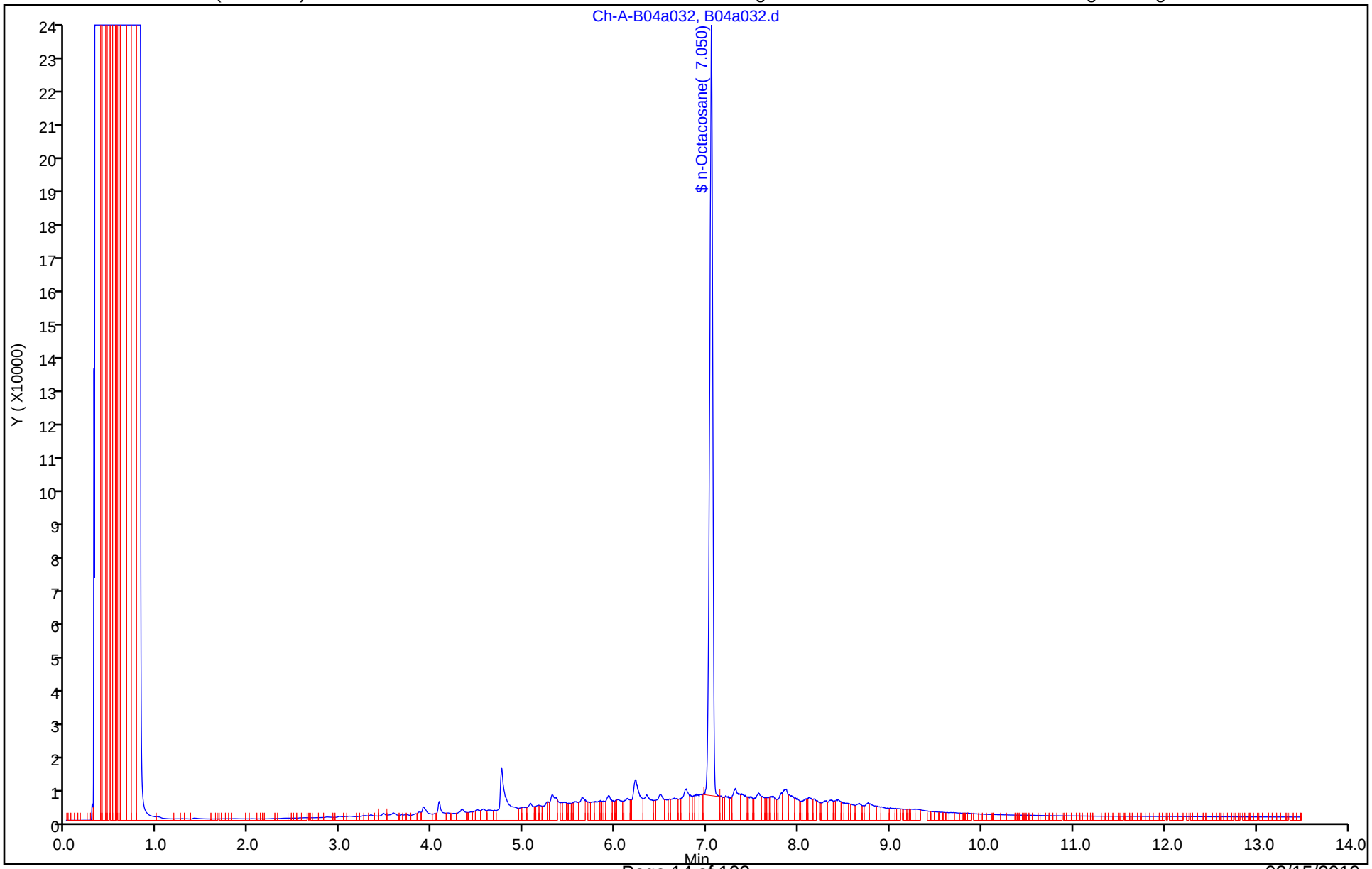
Report Date: 05-Feb-2019 11:20:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a032.d

Injection Date:	04-Feb-2019 23:27:33	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-3-A	Lab Sample ID:	440-91089-3	Worklist Smp#:	29
Client ID:	DG-AB9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a032.d				
Lims ID:	720-91089-E-3-A				
Client ID:	DG-AB9S-0.5-1				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 23:27:33	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:20:13	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:20:13

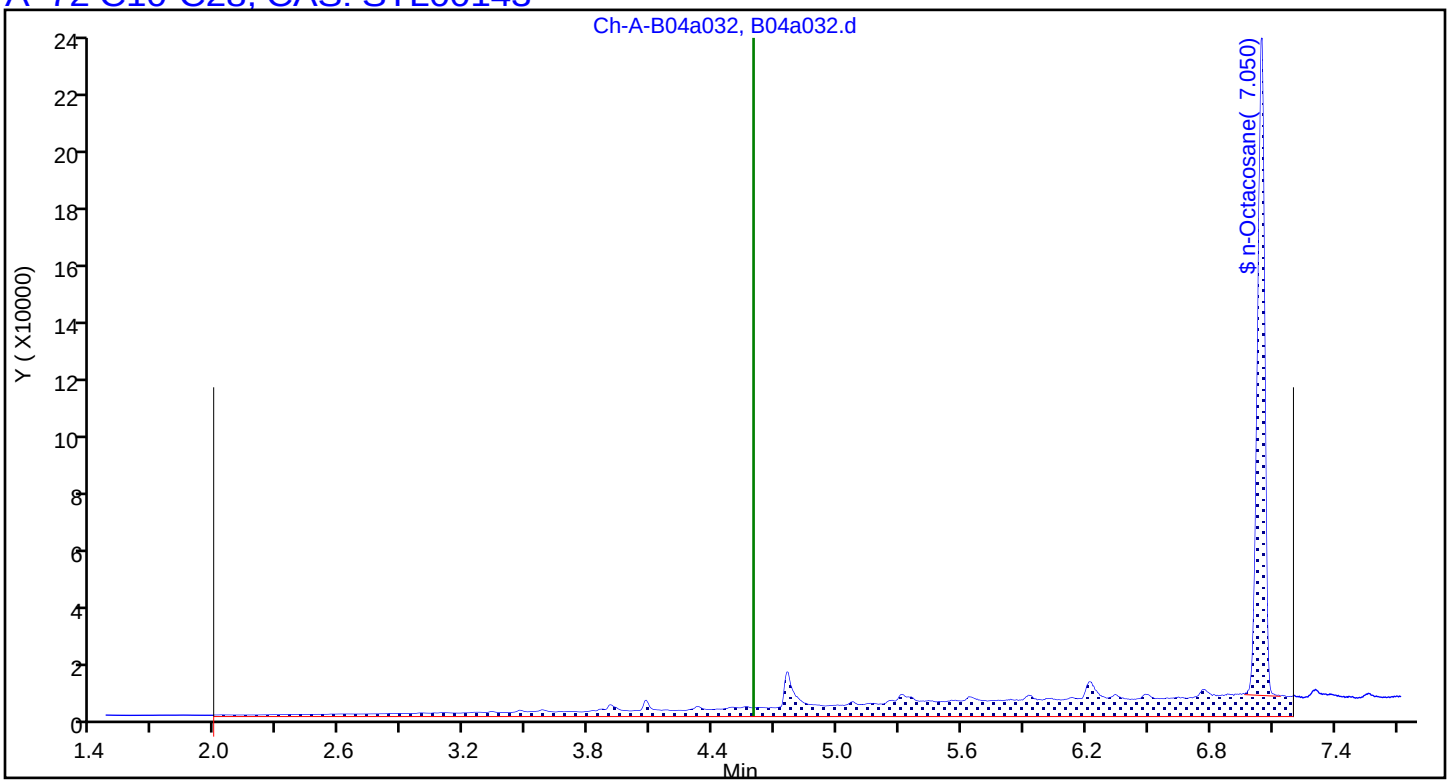
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	137.0	68.50
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:20:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a032.d				
Injection Date:	04-Feb-2019 23:27:33	Instrument ID:	GC70A		
Lims ID:	720-91089-E-3-A	Lab Sample ID:	440-91089-3		
Client ID:	DG-AB9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

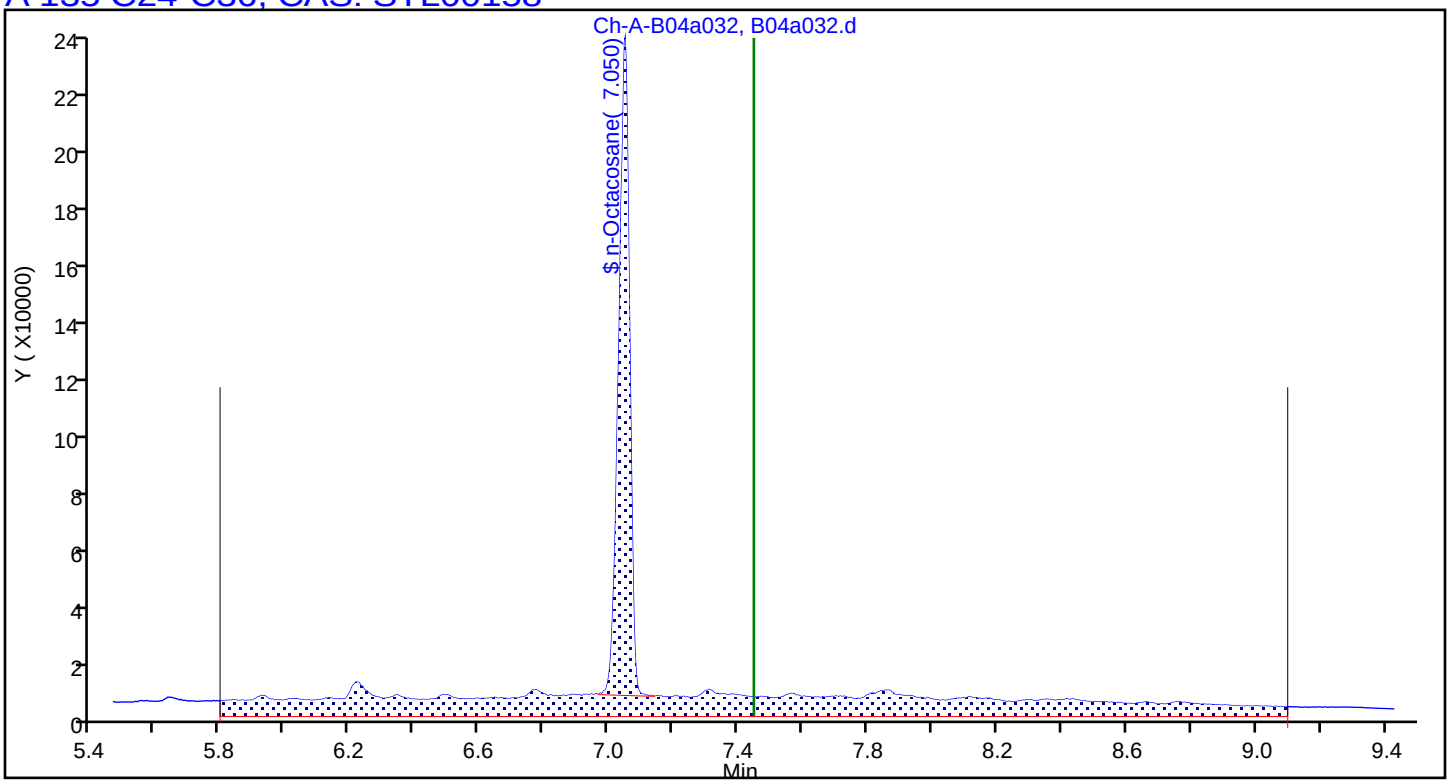


Report Date: 05-Feb-2019 11:20:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a032.d				
Injection Date:	04-Feb-2019 23:27:33	Instrument ID:	GC70A		
Lims ID:	720-91089-E-3-A	Lab Sample ID:	440-91089-3		
Client ID:	DG-AB9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a023.d				
Lims ID:	720-91089-E-4-A				
Client ID:	DG-AB9S-3.5-4				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 20:14:49	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:15:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:15:43		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		493244	136.2	
$ 127 n-Octacosane	7.058	7.022	0.036	685348	186.3	
A 135 C24-C36	7.448	(5.797-9.100)		584975	161.5	

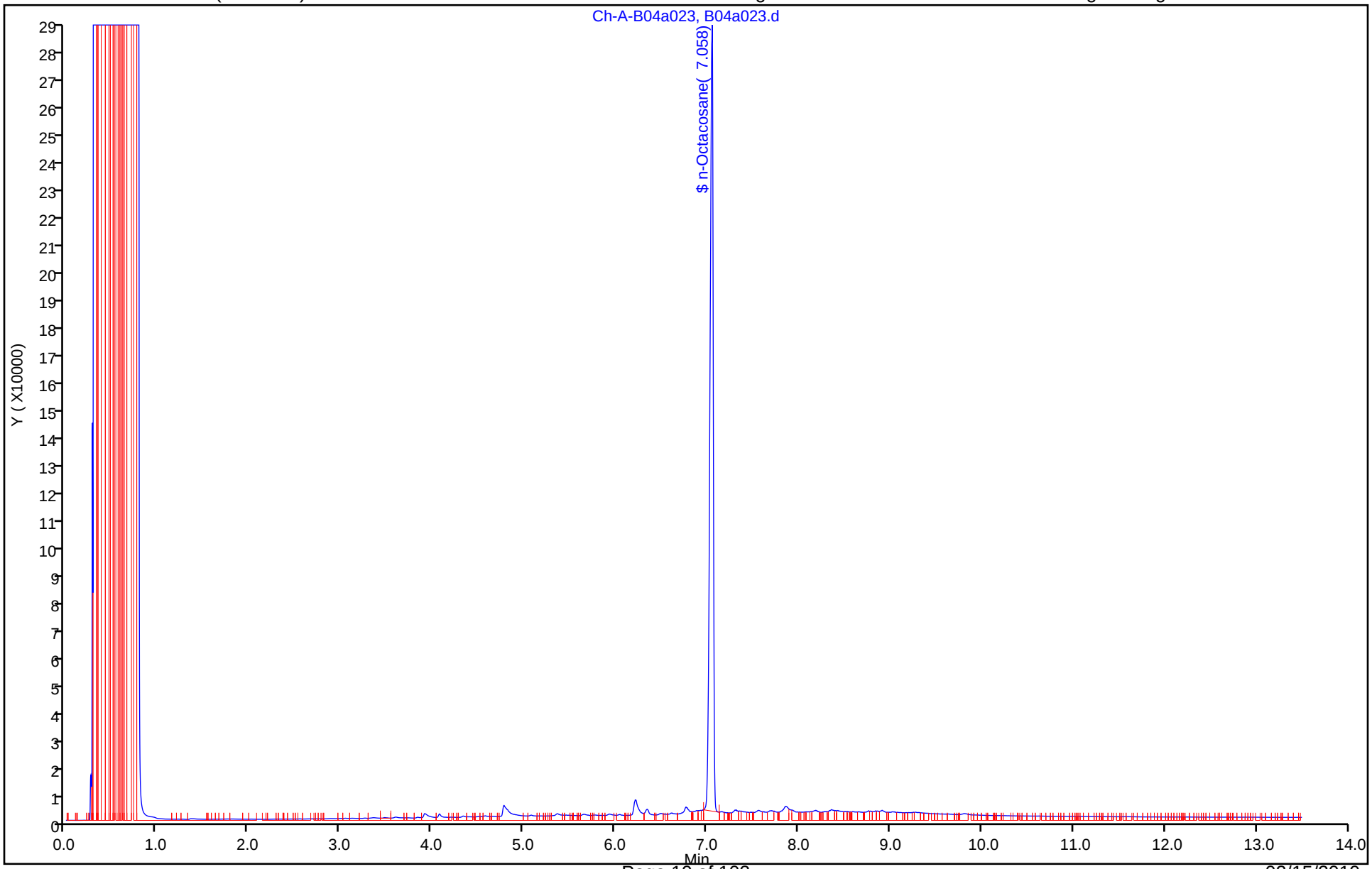
Report Date: 05-Feb-2019 11:15:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a023.d

Injection Date:	04-Feb-2019 20:14:49	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-4-A	Lab Sample ID:	440-91089-4	Worklist Smp#:	20
Client ID:	DG-AB9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a023.d				
Lims ID:	720-91089-E-4-A				
Client ID:	DG-AB9S-3.5-4				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 20:14:49	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:15:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:15:43

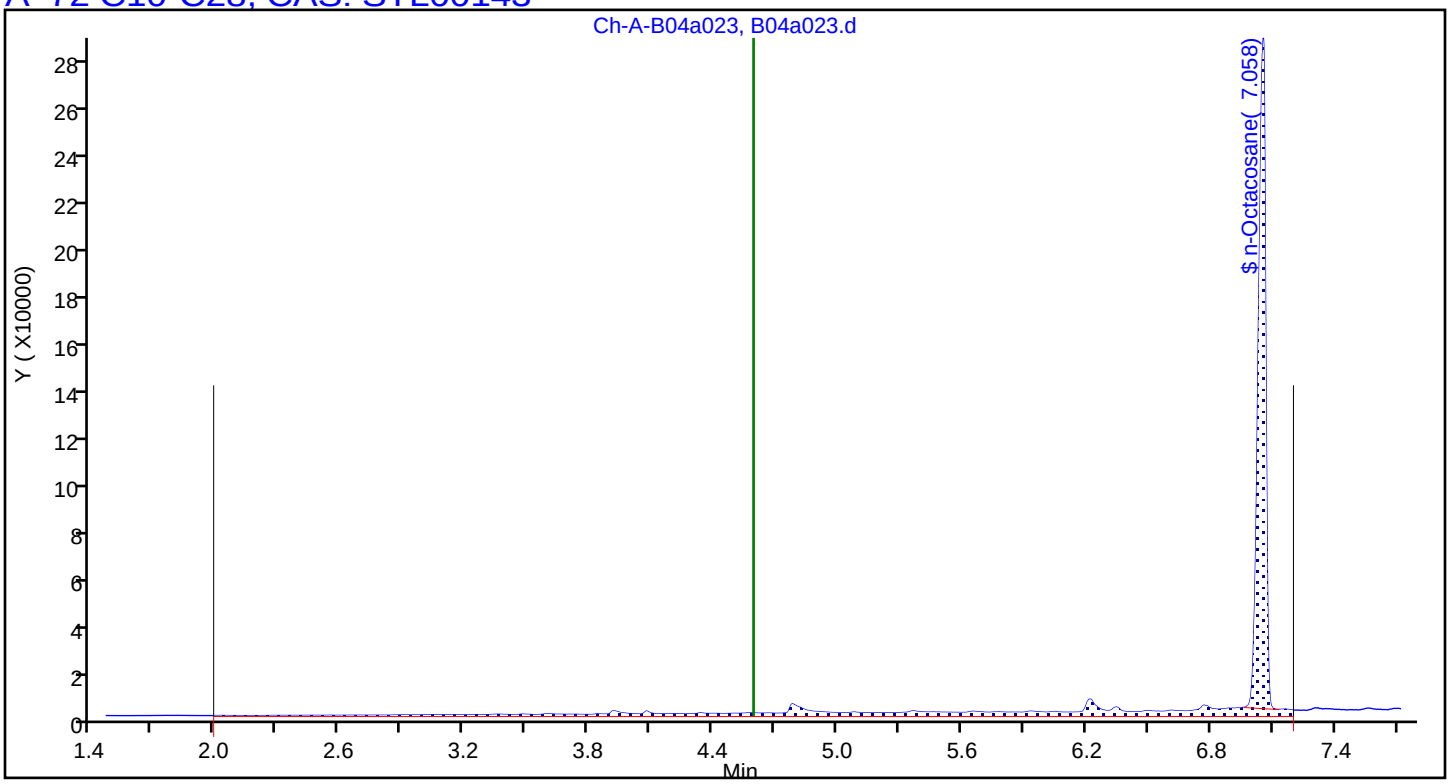
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	186.3	93.15
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:15:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a023.d				
Injection Date:	04-Feb-2019 20:14:49	Instrument ID:	GC70A		
Lims ID:	720-91089-E-4-A	Lab Sample ID:	440-91089-4		
Client ID:	DG-AB9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

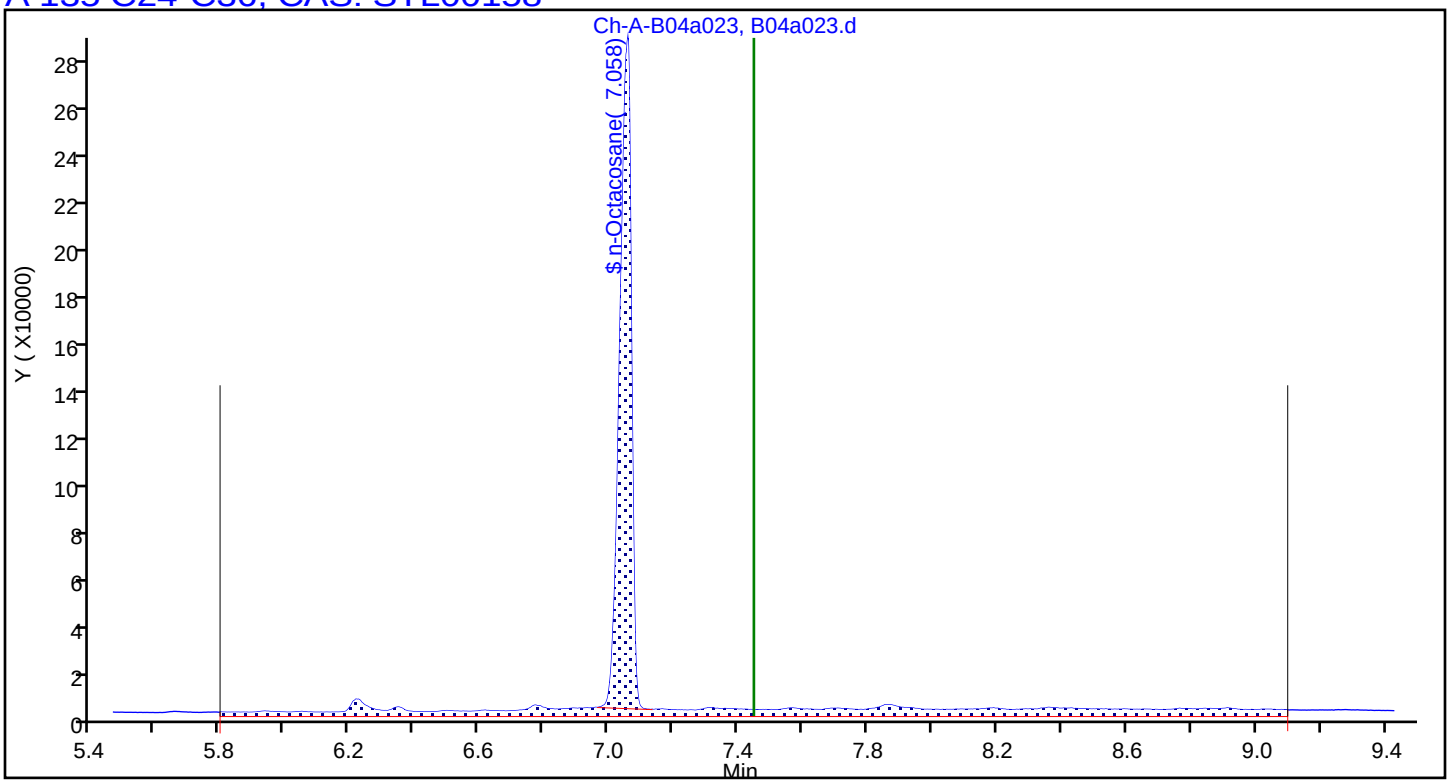


Report Date: 05-Feb-2019 11:15:44 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a023.d				
Injection Date:	04-Feb-2019 20:14:49	Instrument ID:	GC70A		
Lims ID:	720-91089-E-4-A	Lab Sample ID:	440-91089-4		
Client ID:	DG-AB9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a035.d				
Lims ID:	720-91089-E-5-A				
Client ID:	DG-AH9S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 00:31:46	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:21:05	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:21:05		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		509395	140.6	
$ 127 n-Octacosane	7.055	7.022	0.033	708048	192.5	
A 135 C24-C36	7.448	(5.797-9.100)		600191	165.7	

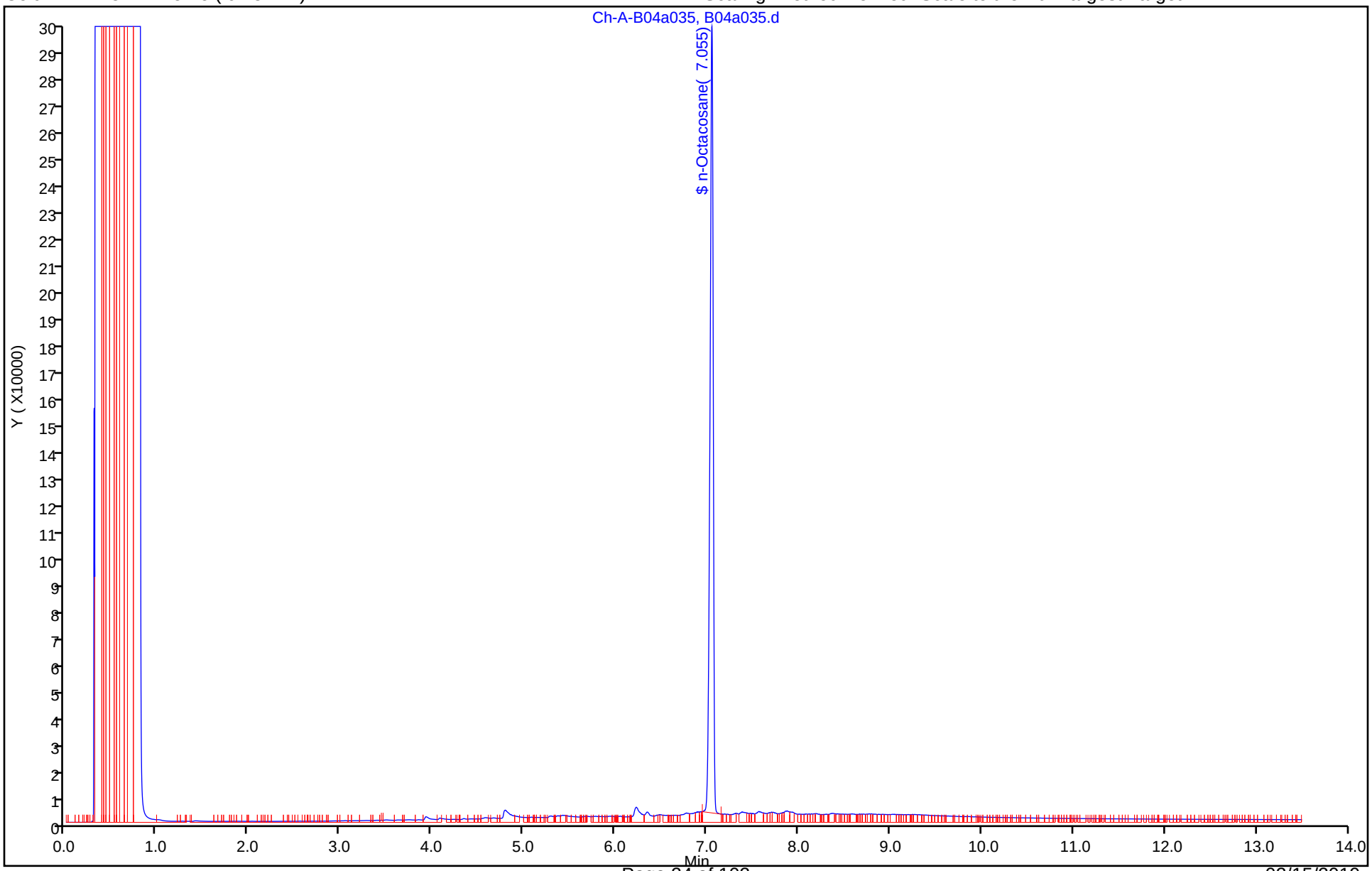
Report Date: 05-Feb-2019 11:21:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a035.d

Injection Date:	05-Feb-2019 00:31:46	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-5-A	Lab Sample ID:	440-91089-5	Worklist Smp#:	32
Client ID:	DG-AH9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a035.d				
Lims ID:	720-91089-E-5-A				
Client ID:	DG-AH9S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 00:31:46	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:21:05	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:21:05

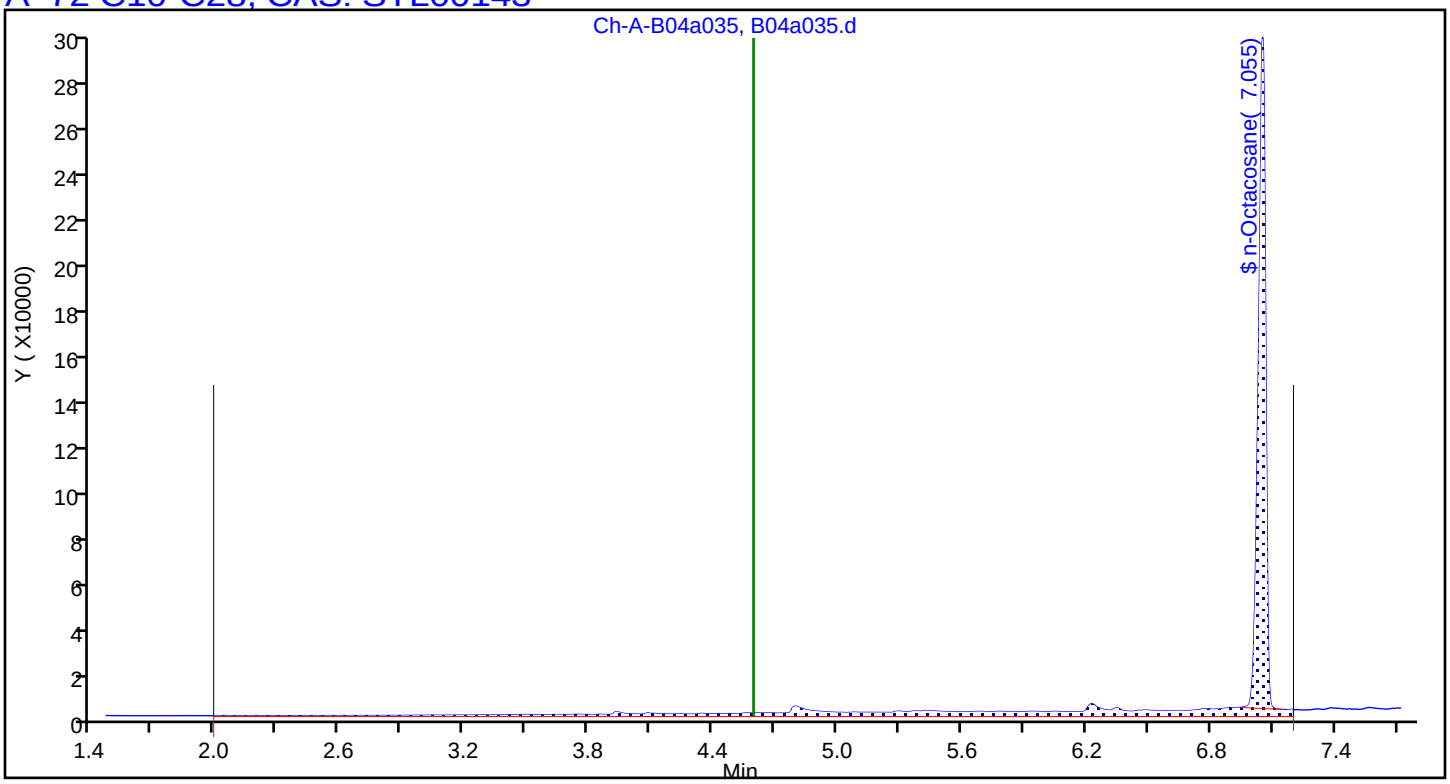
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	192.5	96.23
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:21:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a035.d				
Injection Date:	05-Feb-2019 00:31:46	Instrument ID:	GC70A		
Lims ID:	720-91089-E-5-A	Lab Sample ID:	440-91089-5		
Client ID:	DG-AH9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

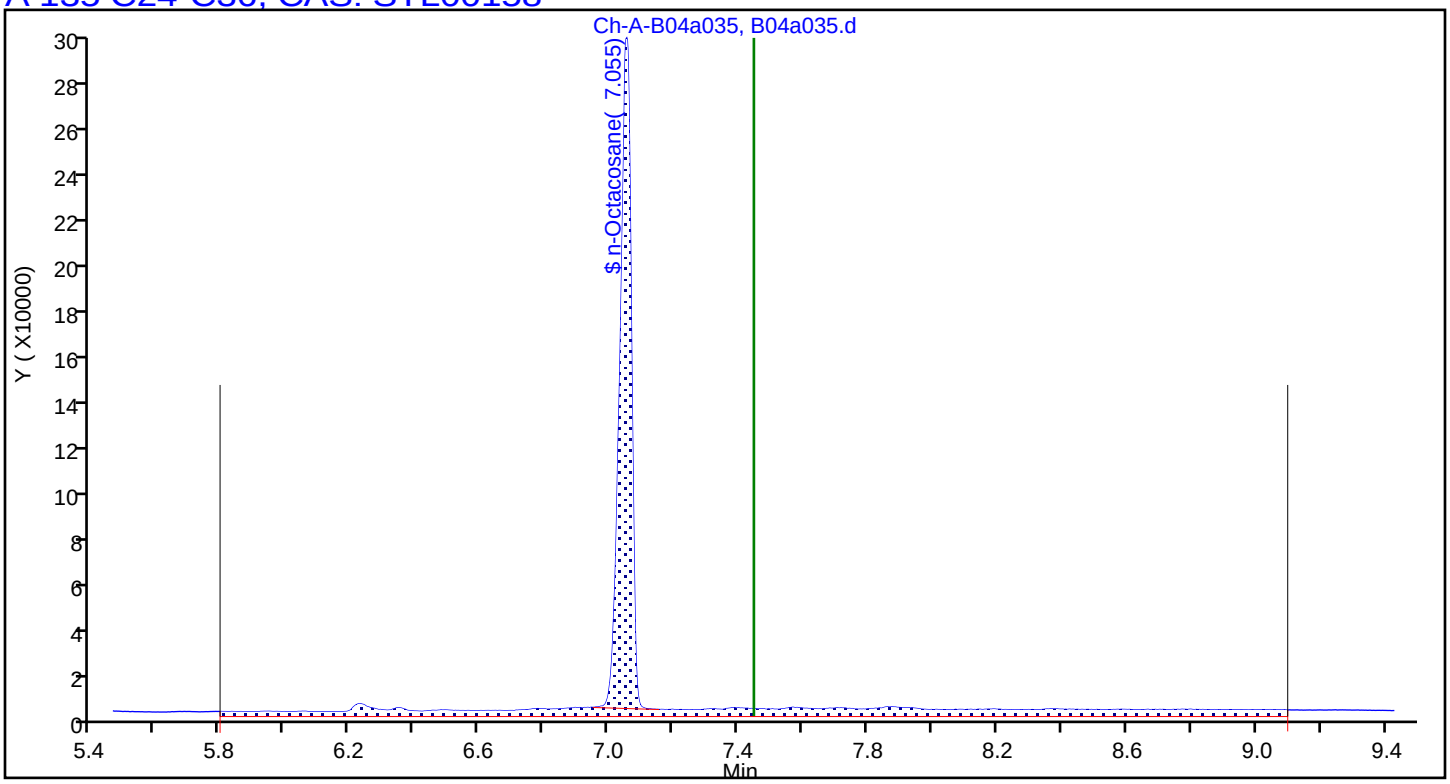


Report Date: 05-Feb-2019 11:21:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a035.d				
Injection Date:	05-Feb-2019 00:31:46	Instrument ID:	GC70A		
Lims ID:	720-91089-E-5-A	Lab Sample ID:	440-91089-5		
Client ID:	DG-AH9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a029.d				
Lims ID:	720-91089-E-6-A				
Client ID:	DG-AH9S-3.5-4				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 22:23:11	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:19:07	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:19:07		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		744473	205.5	
$ 127 n-Octacosane	7.053	7.022	0.031	599130	162.9	
A 135 C24-C36	7.448	(5.797-9.100)		721874	199.3	

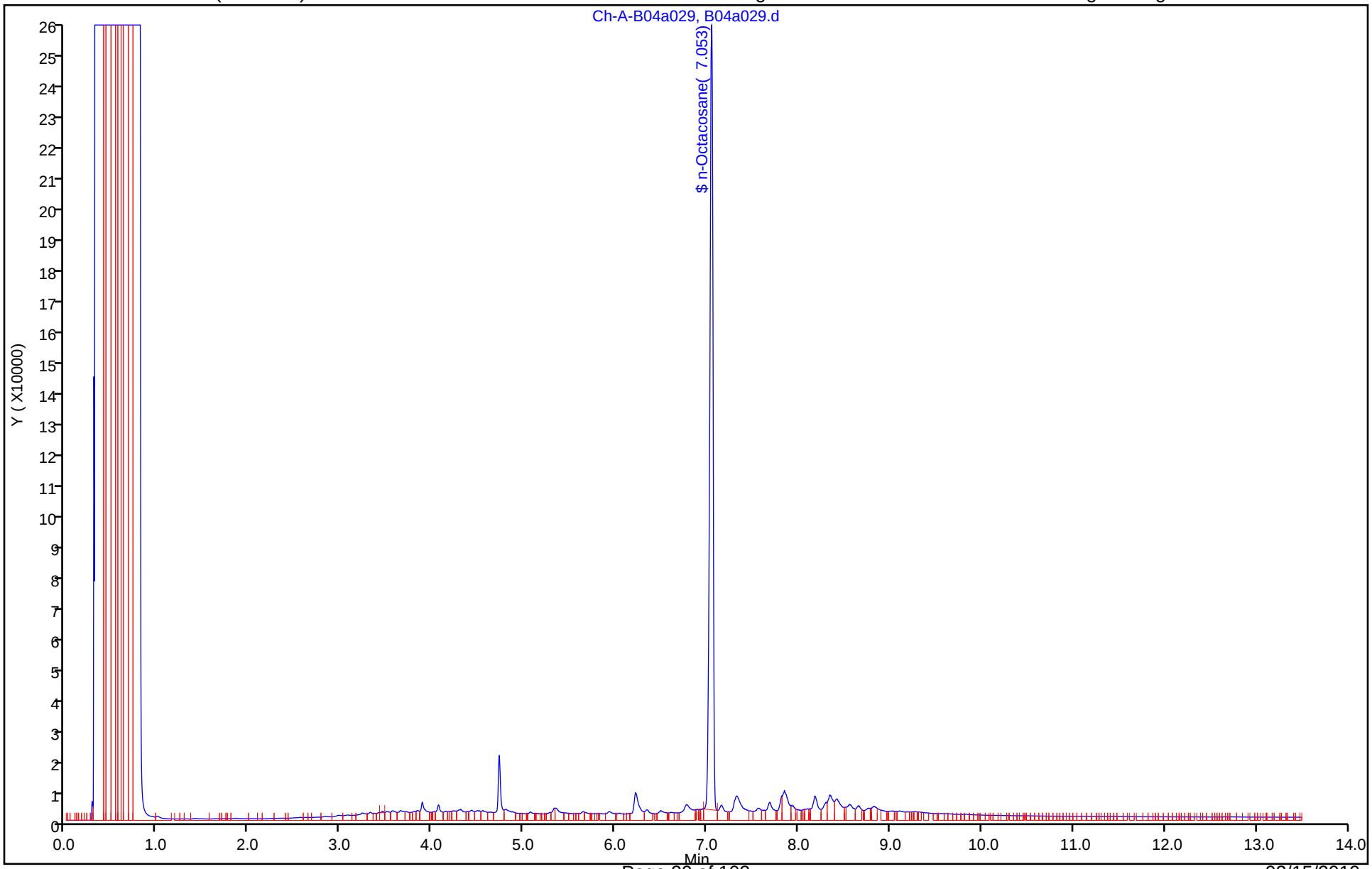
Report Date: 05-Feb-2019 11:19:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a029.d

Injection Date:	04-Feb-2019 22:23:11	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-6-A	Lab Sample ID:	440-91089-6	Worklist Smp#:	26
Client ID:	DG-AH9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a029.d				
Lims ID:	720-91089-E-6-A				
Client ID:	DG-AH9S-3.5-4				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 22:23:11	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:19:07	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:19:07

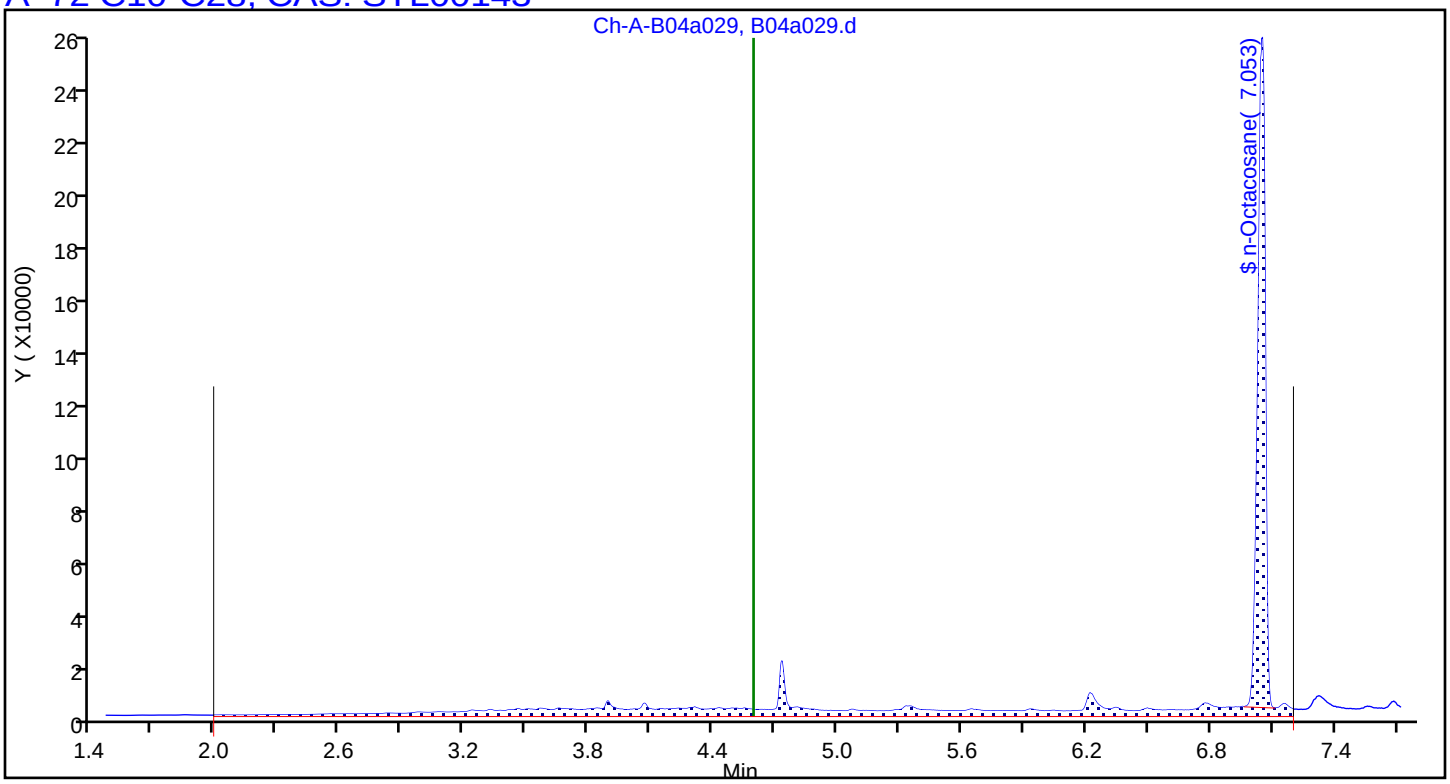
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	162.9	81.43
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:19:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a029.d				
Injection Date:	04-Feb-2019 22:23:11	Instrument ID:	GC70A		
Lims ID:	720-91089-E-6-A	Lab Sample ID:	440-91089-6		
Client ID:	DG-AH9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

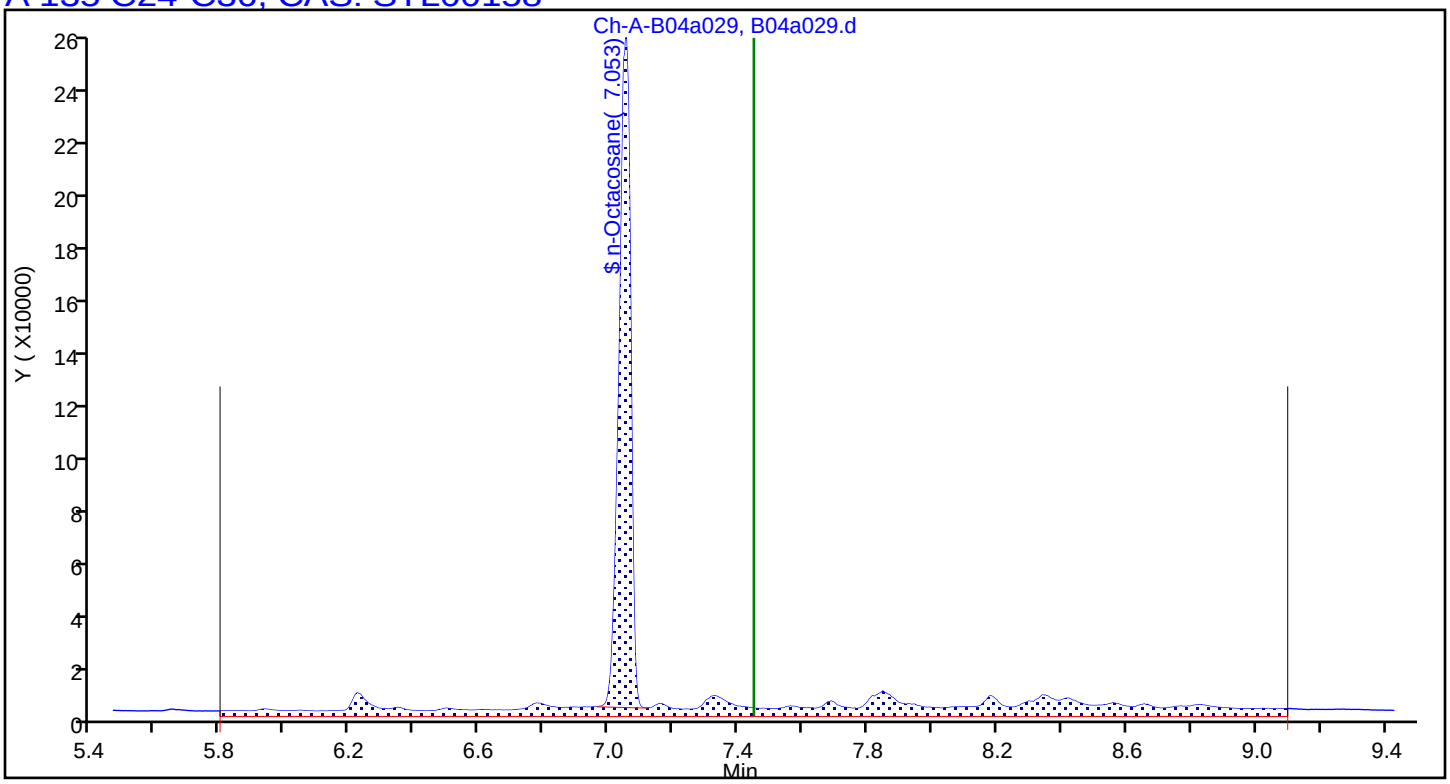


Report Date: 05-Feb-2019 11:19:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a029.d				
Injection Date:	04-Feb-2019 22:23:11	Instrument ID:	GC70A		
Lims ID:	720-91089-E-6-A	Lab Sample ID:	440-91089-6		
Client ID:	DG-AH9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190204-115069.b\B04a022.d				
Lims ID:	720-91089-E-7-A				
Client ID:	DG-AJ9S-0.5-1				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 19:39:57	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190204-115069.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 08:07:13	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 08:07:13		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.578	(1.880-7.275)		3556605	1076.5	
$ 127 n-Octacosane	7.095	7.087	0.008	647501	198.7	
A 136 C24-C36	7.528	(5.887-9.170)		3692726	1117.7	

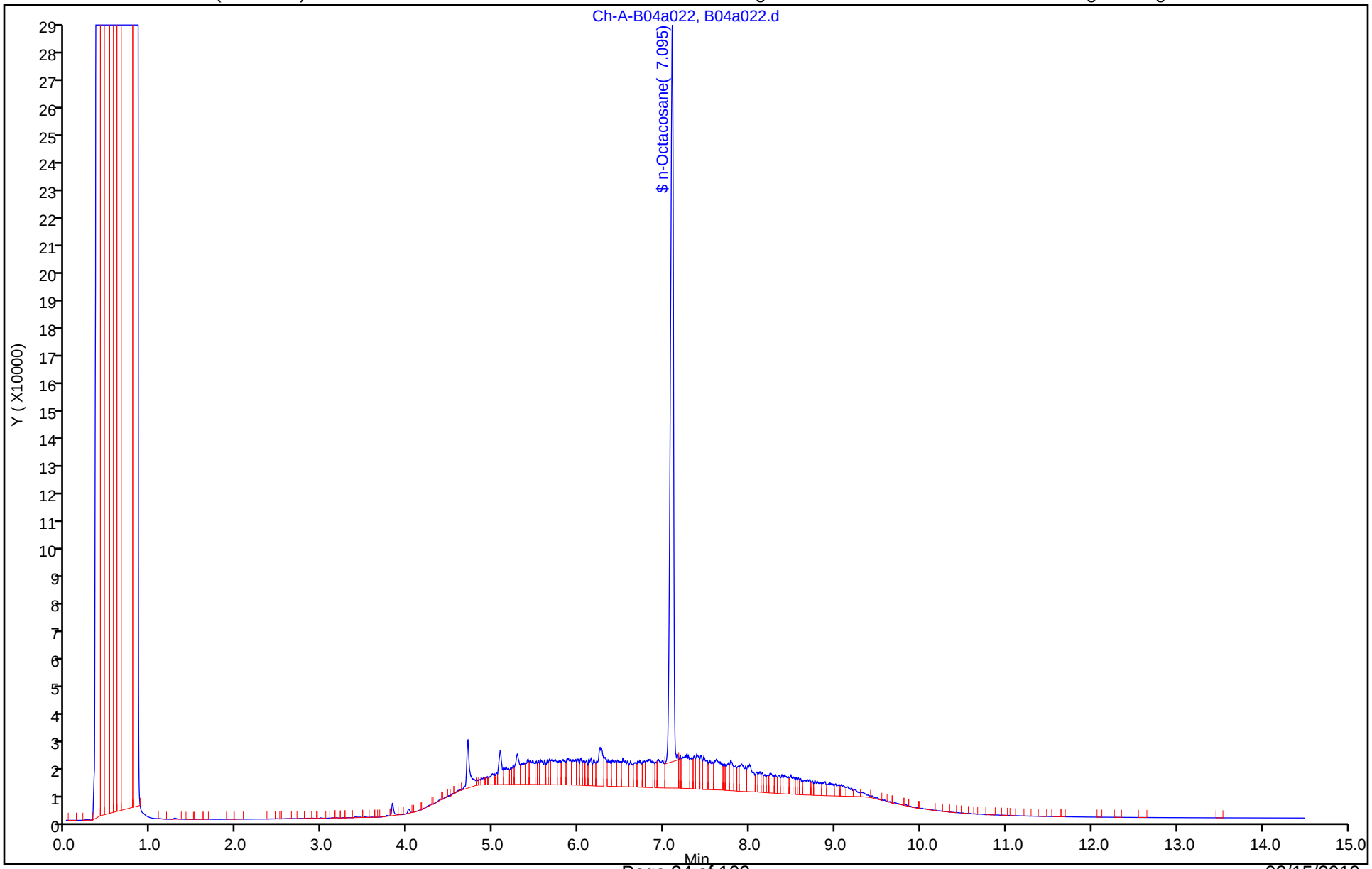
Report Date: 05-Feb-2019 08:07:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190204-115069.b\B04a022.d

Injection Date:	04-Feb-2019 19:39:57	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-7-A	Lab Sample ID:	440-91089-7	Worklist Smp#:	22
Client ID:	DG-AJ9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190204-115069.b\B04a022.d				
Lims ID:	720-91089-E-7-A				
Client ID:	DG-AJ9S-0.5-1				
Sample Type:	Client				
Inject. Date:	04-Feb-2019 19:39:57	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190204-115069.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 08:07:13	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 08:07:13

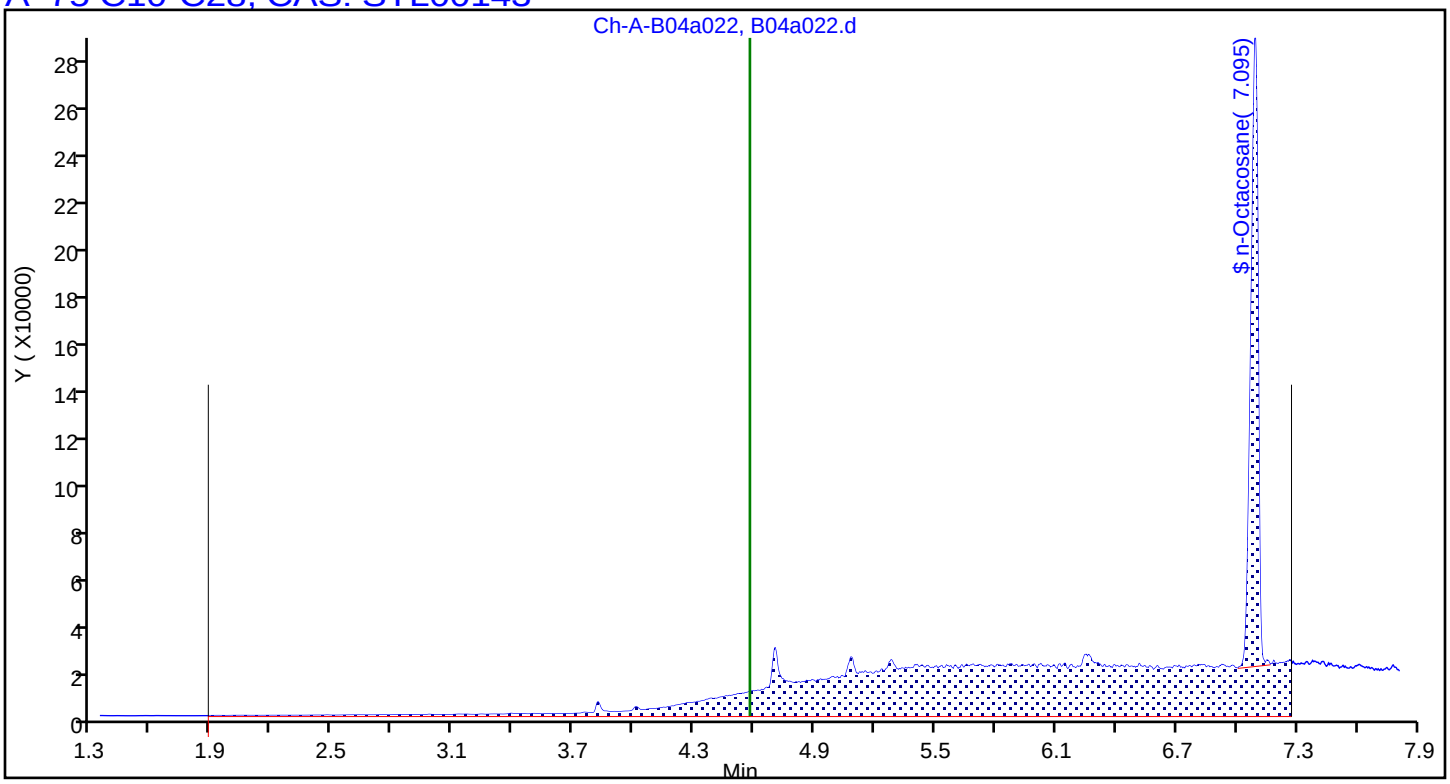
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	198.7	99.37

Report Date: 05-Feb-2019 08:07:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190204-115069.b\B04a022.d				
Injection Date:	04-Feb-2019 19:39:57	Instrument ID:	GC69A		
Lims ID:	720-91089-E-7-A	Lab Sample ID:	440-91089-7		
Client ID:	DG-AJ9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

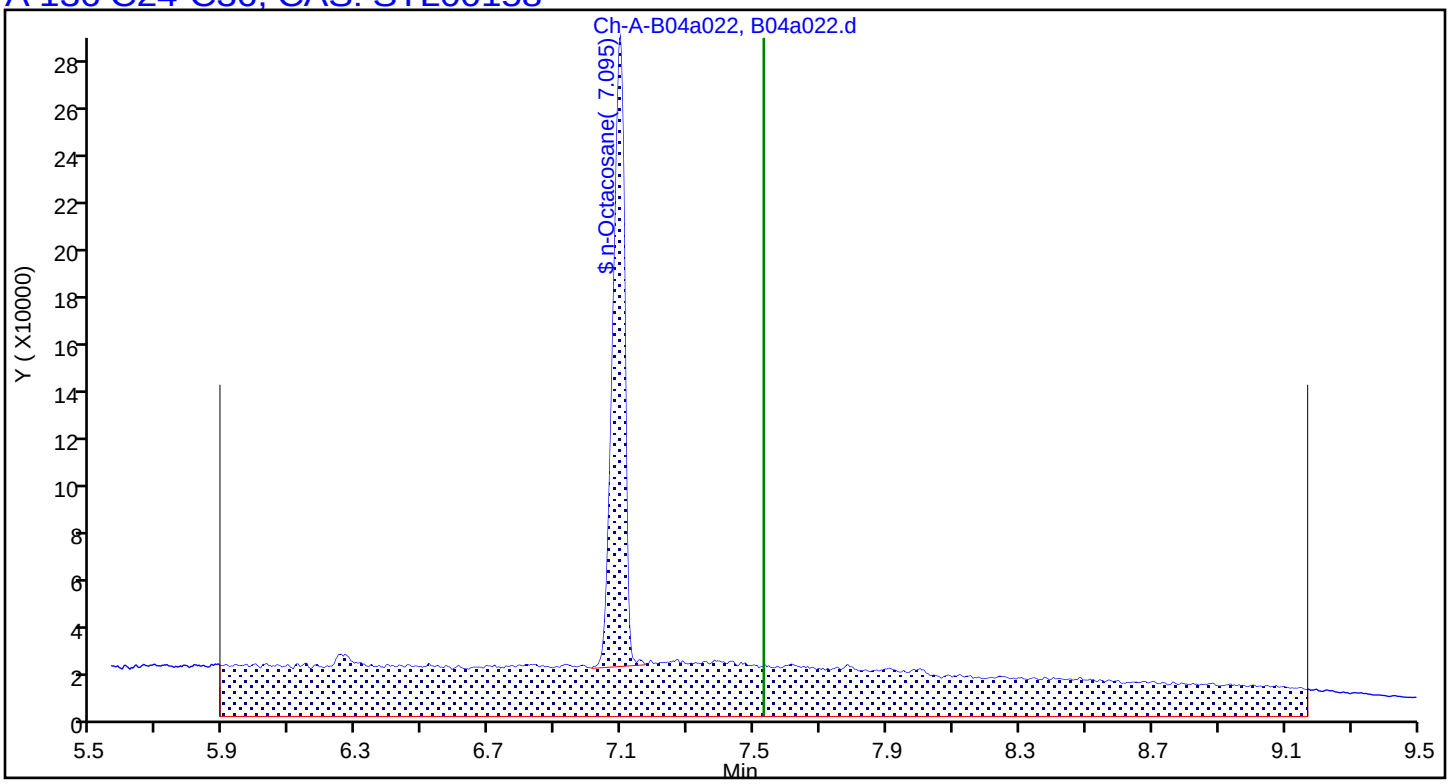


Report Date: 05-Feb-2019 08:07:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190204-115069.b\B04a022.d				
Injection Date:	04-Feb-2019 19:39:57	Instrument ID:	GC69A		
Lims ID:	720-91089-E-7-A	Lab Sample ID:	440-91089-7		
Client ID:	DG-AJ9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a012.d				
Lims ID:	720-91089-E-8-E				
Client ID:	DG-AJ9S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 17:29:19	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 18:39:14	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	06-Feb-2019 18:39:14		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		394159	108.8	
$ 127 n-Octacosane	7.037	7.027	0.010	641729	174.4	
A 135 C24-C36	7.458	(5.822-9.095)		468024	129.2	

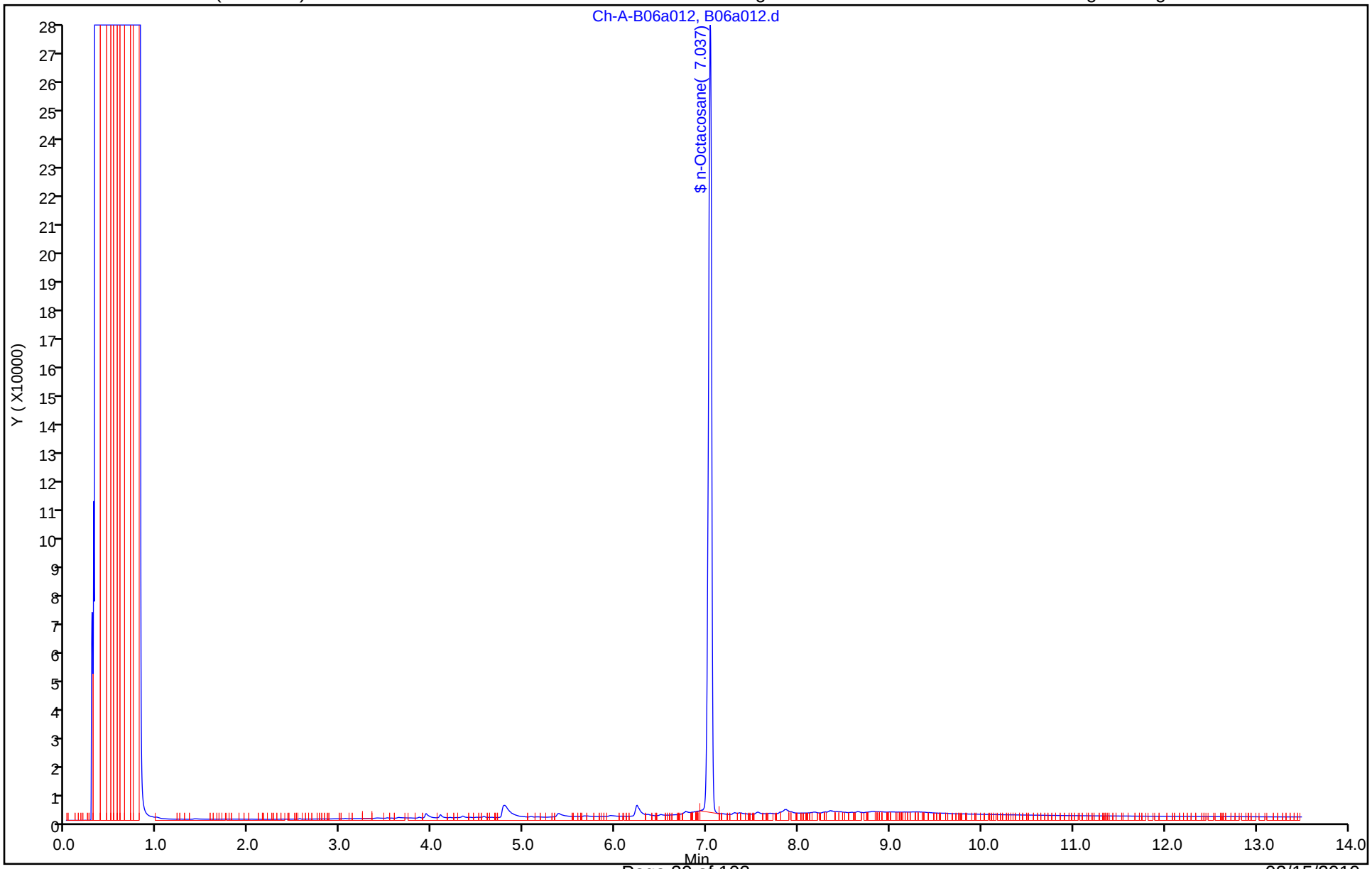
Report Date: 06-Feb-2019 18:39:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a012.d

Injection Date:	06-Feb-2019 17:29:19	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-8-E	Lab Sample ID:	440-91089-8	Worklist Smp#:	12
Client ID:	DG-AJ9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a012.d				
Lims ID:	720-91089-E-8-E				
Client ID:	DG-AJ9S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 17:29:19	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 18:39:14	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 06-Feb-2019 18:39:14

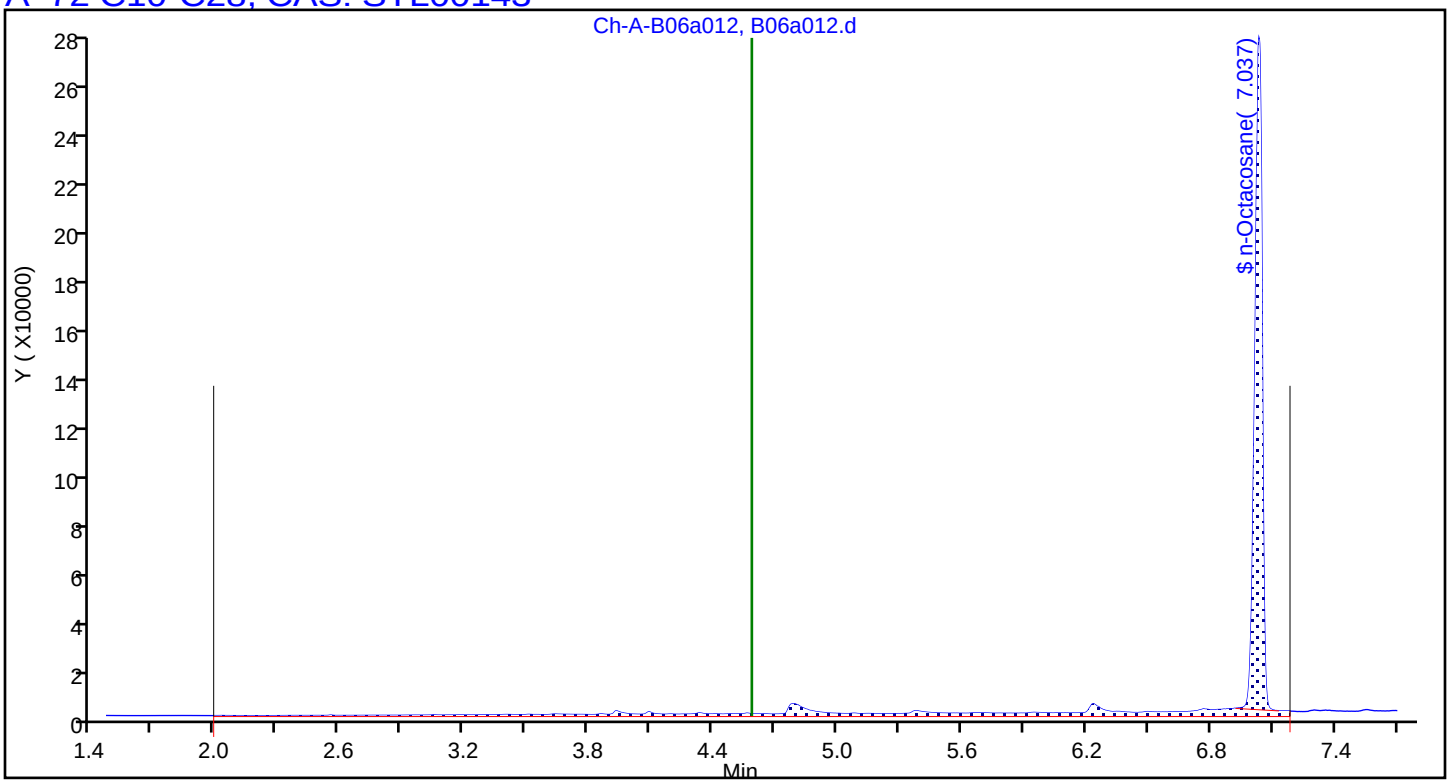
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	174.4	87.22
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 18:39:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a012.d				
Injection Date:	06-Feb-2019 17:29:19	Instrument ID:	GC70A		
Lims ID:	720-91089-E-8-E	Lab Sample ID:	440-91089-8		
Client ID:	DG-AJ9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

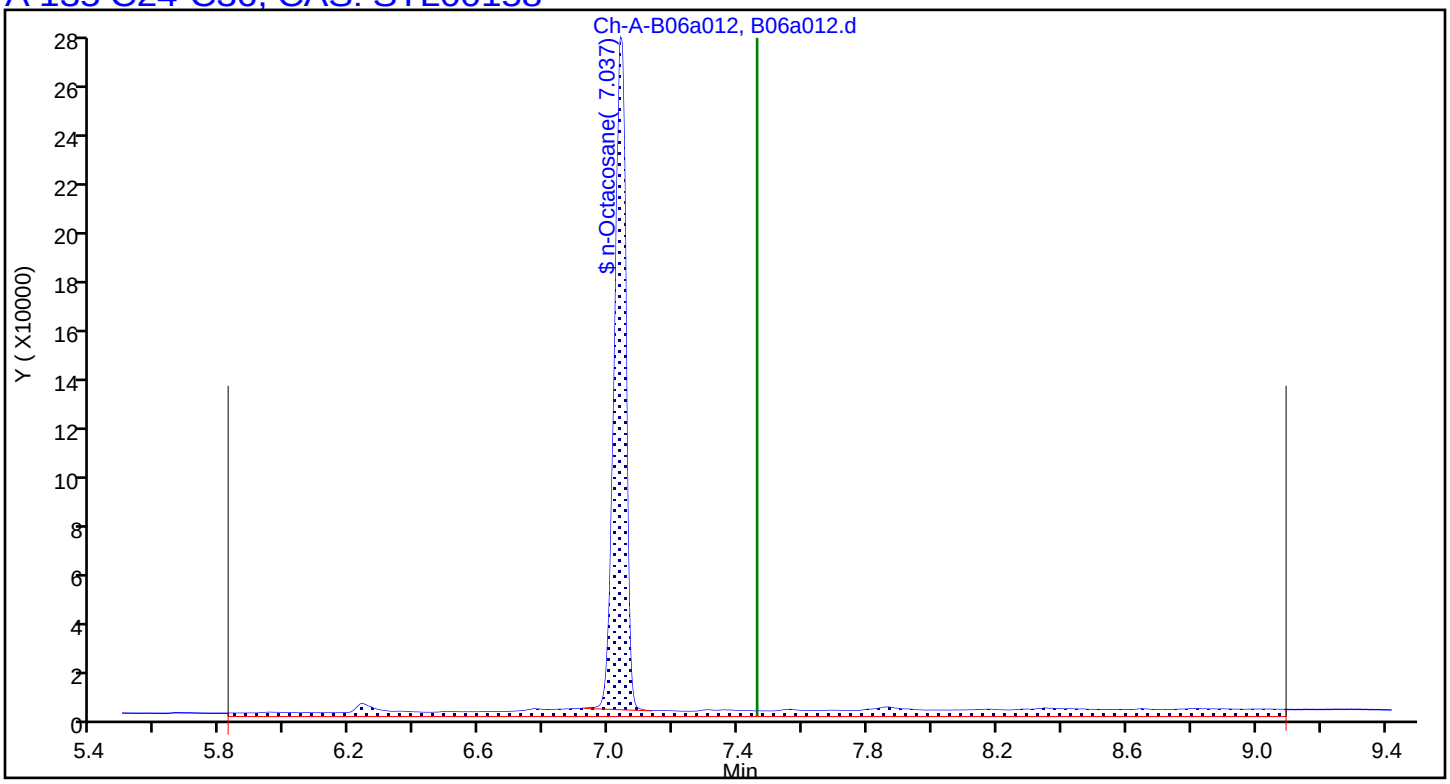


Report Date: 06-Feb-2019 18:39:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a012.d				
Injection Date:	06-Feb-2019 17:29:19	Instrument ID:	GC70A		
Lims ID:	720-91089-E-8-E	Lab Sample ID:	440-91089-8		
Client ID:	DG-AJ9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a009.d
Lims ID: 720-91089-E-9-N
Client ID: DG-AL5S-0.5-1
Sample Type: Client
Inject. Date: 06-Feb-2019 16:25:52 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: IRVINSTSVOA1 Instrument ID: GC70A

Method: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m
Limit Group: GC-8015DRO
Last Update: 06-Feb-2019 17:02:32 Calib Date: 05-Feb-2019 19:05:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d

Column 1 : ZB-5HT Inferno (0.25 mm) Det: Ch-A-H24a007-20110825-175217
Process Host: CTX0320

First Level Reviewer: barnettl Date: 06-Feb-2019 17:02:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 197 C7 Range	0.632	(0.202-1.062)		28675353	7916.7	
A 3 C8 Range	1.288	(1.062-1.515)		11039	3.05	
A 4 C8-C9	1.525	(1.062-1.988)		21254	5.87	
A 7 C8-C10	1.693	(1.062-2.325)		28519	7.87	
A 8 C9 Range	1.752	(1.515-1.988)		10215	2.82	
A 22 C7-C14	1.832	(0.218-3.445)		28724038	7930.2	
A 9 C8-C11	1.860	(1.062-2.658)		36679	10.1	
A 10 C9-C10	1.923	(1.533-2.312)		16782	4.63	
A 12 C10 Range	2.157	(1.988-2.325)		7264	2.01	
A 13 C9-C12	2.228	(1.515-2.942)		33657	9.29	
A 16 C10-C11	2.323	(1.988-2.658)		15425	4.26	
A 17 Mineral Spirits	2.358	(1.515-3.200)		42700	11.8	
A 18 Stoddard Solvent	2.358	(1.515-3.200)		42700	11.8	
A 196 C9-C13	2.358	(1.515-3.200)		7921	2.19	
A 15 C8-C15	2.372	(1.062-3.682)		73838	20.4	
A 21 C8-C16	2.464	(1.062-3.867)		83368	23.0	
A 20 C10-C12	2.465	(1.988-2.942)		23442	6.47	
A 23 C11 Range	2.492	(2.325-2.658)		8160	2.25	
A 24 C11-C12	2.633	(2.325-2.942)		16178	4.47	
A 30 C9-C16	2.691	(1.515-3.867)		72328	20.0	
A 26 Jet Fuel JP-8	2.783	(1.062-4.505)		71768	0	
A 27 C8-C18 DRO	2.783	(1.062-4.505)		141185	39.0	
A 29 C8-C18	2.783	(1.062-4.505)		141185	35.5	
A 192 C12 Range	2.800	(2.658-2.942)		8017	2.21	
A 31 C9 - C17	2.807	(1.515-4.098)		91479	25.3	
A 32 C12-C13	2.929	(2.658-3.200)		17059	4.71	
34 C13	2.955	2.982	-0.027	365	0.1008	
A 33 C9 - C18	3.010	(1.515-4.505)		130146	35.9	
A 35 C12-C14	3.052	(2.658-3.445)		26443	7.30	
A 194 C13 Range	3.071	(2.942-3.200)		9042	2.50	
A 36 C13-C14	3.193	(2.942-3.445)		18425	5.09	
A 193 C14 Range	3.208	(3.172-3.243)		2621	0.7236	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 199 C10-C18	3.247	(1.988-4.505)		119930	NC	
39 n-Tetradecane	3.270	3.257	0.013	104	0.0287	
A 37 C8-C22	3.286	(1.062-5.510)		362260	100.0	
A 38 C13-C15	3.312	(2.942-3.682)		29141	8.05	
A 40 C14-C15	3.441	(3.200-3.682)		20098	5.55	
A 44 C14-C16	3.533	(3.200-3.867)		29628	8.18	
A 43 C8-C24	3.590	(1.062-6.118)		501331	138.4	
A 45 C10-C21	3.623	(1.988-5.257)		277828	76.7	
A 46 C15-C16	3.656	(3.445-3.867)		20245	5.59	
A 47 C10-C22	3.749	(1.988-5.510)		341005	94.1	
A 48 C9-C24	3.817	(1.515-6.118)		490291	135.4	
A 51 C16-C17	3.890	(3.682-4.098)		28680	7.92	
A 52 C10-C23	3.905	(1.988-5.822)		410577	113.4	
A 53 C11-C22	3.918	(2.325-5.510)		333741	92.1	
A 54 C12-C21	3.958	(2.658-5.257)		262403	72.4	
A 55 C9-C25	3.962	(1.515-6.408)		573798	158.4	
A 56 C10-C24	4.053	(1.988-6.118)		480076	132.5	
A 57 C12-C22	4.084	(2.658-5.510)		325580	89.9	
A 59 C8-C28	4.124	(1.062-7.187)		845641	233.5	
A 61 C17-C18	4.186	(3.867-4.505)		57817	16.0	
A 63 C10-C25	4.198	(1.988-6.408)		563583	155.6	
A 62 C15-C20	4.210	(3.445-4.975)		179793	49.6	
A 64 C13-C22	4.226	(2.942-5.510)		317563	87.7	
A 14 C12-C23	4.240	(2.658-5.822)		395152	109.1	
A 66 C13-C23	4.382	(2.942-5.822)		387135	106.9	
A 67 C12-C24	4.388	(2.658-6.118)		464651	128.3	
A 69 C8-C30	4.388	(1.062-7.715)		1050101	289.9	
A 68 C18-C19	4.426	(4.098-4.753)		75022	20.7	
71 C19	4.543	4.553	-0.010	2509	0.6927	
A 60 Diesel	4.588	(1.988-7.187)		824387	227.6	
A 72 C10-C28	4.588	(1.988-7.187)		824387	227.6	
A 70 C16-C22	4.596	(3.682-5.510)		288422	79.6	
A 73 C8-C32	4.633	(1.062-8.205)		1245028	343.7	
A 75 C7-C36	4.648	(0.202-9.095)		30276325	8358.7	E
A 74 C19-C20	4.740	(4.505-4.975)		101730	28.1	
A 78 C8-C34	4.850	(1.062-8.638)		1417322	391.3	
A 77 C10-C30	4.852	(1.988-7.715)		1028846	284.0	
A 195 C13-C27	4.938	(2.942-6.935)		707180	195.2	
A 79 C20-C21	5.005	(4.753-5.257)		121542	33.6	
A 81 C13-C28	5.064	(2.942-7.187)		800944	221.1	
A 80 C8-C36	5.078	(1.062-9.095)		1600971	442.0	
A 83 C10-C32	5.097	(1.988-8.205)		1223774	337.9	
A 85 C21-C22	5.243	(4.975-5.510)		119344	32.9	
A 84 C20-C23	5.288	(4.753-5.822)		254291	70.2	
A 86 C13-C30	5.328	(2.942-7.715)		1005404	277.6	
A 88 C22-C23	5.539	(5.257-5.822)		132749	36.6	
A 89 C10-C36	5.542	(1.988-9.095)		1579716	436.1	
A 92 C8-C40	5.553	(1.062-10.043)		1925950	531.7	
A 90 C13-C32	5.573	(2.942-8.205)		1200331	331.4	
A 198 C18-C28	5.643	(4.098-7.187)		743123	205.2	
A 91 C12-C34	5.648	(2.658-8.638)		1380642	381.2	
A 96 C9-C40	5.779	(1.515-10.043)		1914911	528.7	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 94 C23-C24	5.814	(5.510-6.118)		139070	38.4	
A 95 C18-C30	5.907	(4.098-7.715)		947582	261.6	
A 101 C10-C40	6.016	(1.988-10.043)		1904695	525.8	
A 99 C13-C36	6.018	(2.942-9.095)		1556274	429.7	
A 100 C17-C32	6.036	(3.867-8.205)		1161660	320.7	
A 98 C24-C25	6.115	(5.822-6.408)		153005	42.2	
102 C25	6.230	6.195	0.035	44785	12.4	
A 111 C8-C44	6.334	(1.062-11.607)		2231702	616.1	
A 103 C21-C30	6.345	(4.975-7.715)		807184	222.8	
A 104 C24-C27	6.378	(5.822-6.935)		320044	88.4	
A 105 C16-C36	6.388	(3.682-9.095)		1527133	421.6	
A 106 C25-C26	6.397	(6.118-6.675)		157125	43.4	
A 107 C20-C32	6.479	(4.753-8.205)		1067488	294.7	
A 109 C17-C36	6.481	(3.867-9.095)		1517603	419.0	
A 113 C13-C40	6.493	(2.942-10.043)		1881253	519.4	
A 112 C13 - C40	6.493	(2.942-10.043)		1881253	519.4	
A 108 C18-C36	6.597	(4.098-9.095)		1498453	413.7	
A 114 Hydraulic Fluid	6.597	(4.098-9.095)		1498453	413.7	
A 116 C25-C28	6.653	(6.118-7.187)		344310	95.1	
A 115 C26-C27	6.672	(6.408-6.935)		167039	46.1	
A 117 C22-C32	6.731	(5.257-8.205)		945945	261.2	
118 C27	6.752	6.755	-0.003	17746	4.90	
A 126 C10-C44	6.798	(1.988-11.607)		2210447	610.3	
A 121 C16-C40	6.848	(3.682-10.013)		1844218	509.2	
A 120 C23-C32	6.858	(5.510-8.205)		882768	243.7	
A 210 C20-C36	6.924	(4.753-9.095)		1423431	393.0	
A 122 C27-C28	6.931	(6.675-7.187)		187185	51.7	
A 123 C24-C32	7.013	(5.822-8.205)		813196	224.5	
$ 127 n-Octacosane	7.023	7.027	-0.004	532790	144.8	
A 124 C22-C35	7.051	(5.257-8.845)		1201260	331.6	
A 130 C18-C40	7.071	(4.098-10.043)		1823432	503.4	
A 125 C23-C34	7.074	(5.510-8.638)		1055061	291.3	
A 128 C23-C35	7.178	(5.510-8.845)		1138082	314.2	
A 129 C28-C29	7.186	(6.935-7.437)		188364	52.0	
A 139 C13-C44	7.274	(2.942-11.607)		2187005	603.8	
A 133 C19-C40	7.274	(4.505-10.043)		1784764	492.7	
132 C29	7.290	7.288	0.002	19683	5.43	
A 131 C23-C36	7.303	(5.510-9.095)		1238711	342.0	
A 137 C20-C40	7.398	(4.753-10.043)		1748409	482.7	
A 136 C28-C31	7.441	(6.935-7.947)		393971	108.8	
A 138 C29-C30	7.451	(7.187-7.715)		204459	56.4	
A 135 C24-C36	7.458	(5.822-9.095)		1169138	322.8	
A 140 C25-C36	7.607	(6.118-9.095)		1099640	303.6	
A 142 C30-C31	7.692	(7.437-7.947)		205607	56.8	
A 143 C29-C32	7.696	(7.187-8.205)		399386	110.3	
A 144 C17-C44	7.722	(3.867-11.577)		2143834	591.9	
A 146 C23-C40	7.777	(5.510-10.043)		1563689	431.7	
145 C31	7.795	7.798	-0.003	10238	2.83	
A 148 C24-C40	7.933	(5.822-10.043)		1494117	412.5	
A 147 C31-C32	7.960	(7.715-8.205)		194927	53.8	
A 200 C28-C36	8.015	(6.935-9.095)		849094	234.4	
A 150 C25-C40	8.081	(6.118-10.043)		1424619	393.3	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
152 C33	8.265	8.280	-0.015	18700	5.16	
A 153 C32-C35	8.396	(7.947-8.845)		354494	97.9	
A 154 C33-C34	8.422	(8.205-8.638)		172293	47.6	
A 156 C32-C36	8.521	(7.947-9.095)		455122	125.7	
A 161 C23-C44	8.558	(5.510-11.607)		1869441	516.1	
A 159 C29-C40	8.600	(7.187-10.013)		1072414	296.1	
A 158 C33-C36	8.650	(8.205-9.095)		355942	98.3	
A 162 C24-C44	8.714	(5.822-11.607)		1799869	496.9	
A 169 C35-C36	8.867	(8.638-9.095)		183649	50.7	
A 164 C31-C40	8.879	(7.715-10.043)		875849	241.8	
A 166 C33-C40	9.124	(8.205-10.043)		680921	188.0	
A 168 C36-C39	9.306	(8.845-9.767)		346934	95.8	
A 171 C35-C40	9.336	(8.638-10.033)		506031	139.7	
A 119 C29-C44	9.382	(7.187-11.577)		1381561	381.4	
170 C38	9.380	9.387	-0.007	17018	4.70	
A 172 C36-C40	9.444	(8.845-10.043)		425607	117.5	
A 174 C37-C40	9.569	(9.095-10.043)		324978	89.7	
173 C39	9.638	9.625	0.013	11841	3.27	
A 175 C39-C40	9.764	(9.485-10.043)		171410	47.3	
176 C40	9.905	9.903	0.002	15369	4.24	
A 134 C33-C44	9.906	(8.205-11.607)		986673	272.4	
A 167 C37-C38	9.938	(9.748-10.128)		106247	29.3	
A 151 C40-C44	10.687	(9.767-11.607)		384424	106.1	
A 155 C41-C44	10.810	(10.013-11.607)		313645	86.6	
$ 178 n-Triacontane-d62	13.292	13.288	0.004	3307	NC	
S 179 HC Dist (C10-C44)					612.4	
S 182 HC Dist (C8-C44)					618.3	
S 186 HC Dist (C10-C40)					525.8	
S 187 HC Dist (C10-C36)					436.1	
S 188 HC Dist (C13-C44)					592.9	
S 189 HC Dist (C13-C40)					506.3	
S 191 HC Dist (C13-C28)					221.1	
S 190 HC Dist (C8-C40)					531.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

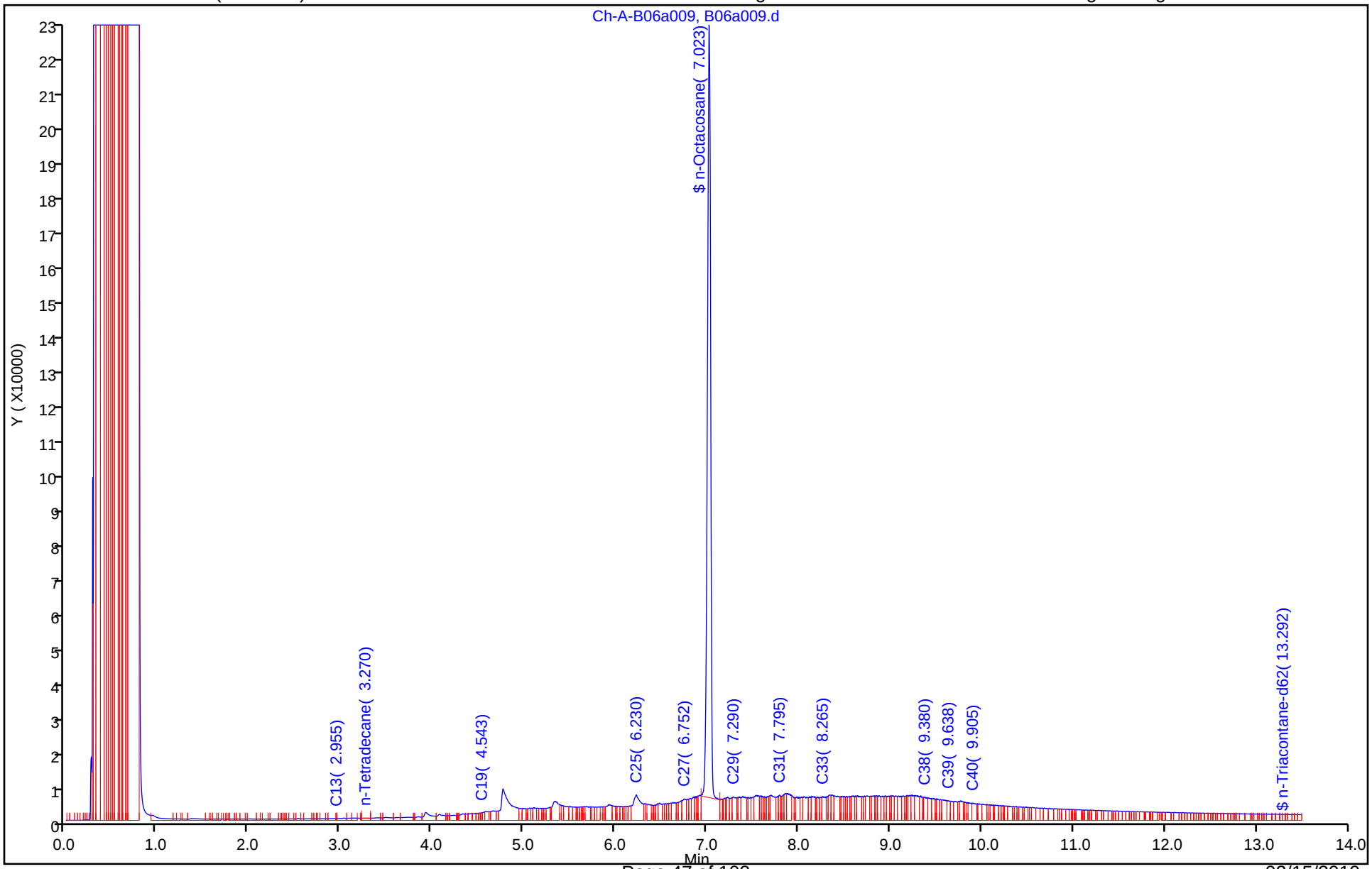
Report Date: 06-Feb-2019 17:02:33 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a009.d

Injection Date:	06-Feb-2019 16:25:52	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-9-N	Lab Sample ID:	440-91089-9	Worklist Smp#:	9
Client ID:	DG-AL5S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a009.d				
Lims ID:	720-91089-E-9-N				
Client ID:	DG-AL5S-0.5-1				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 16:25:52	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 17:02:32	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 06-Feb-2019 17:02:32

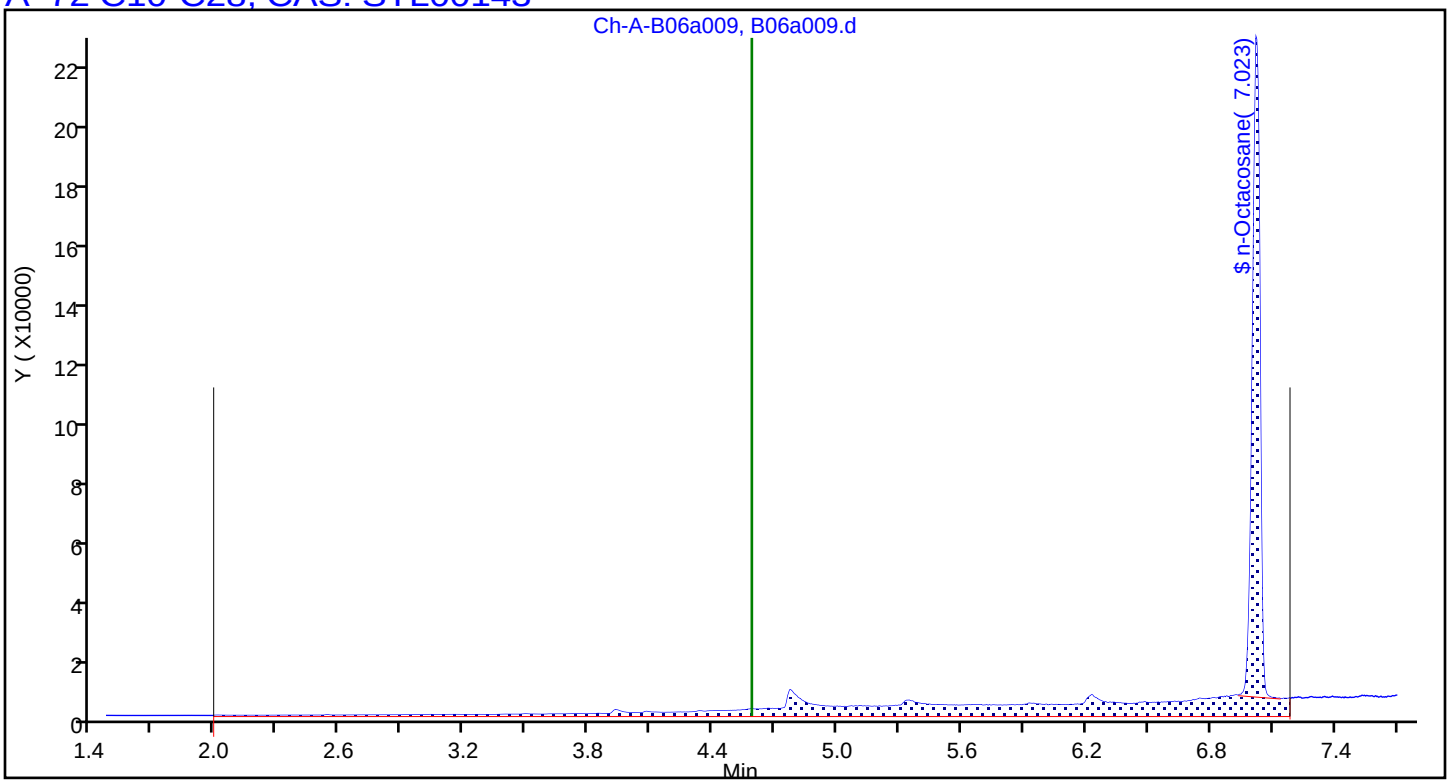
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	144.8	72.41
$ 178 n-Triacontane-d62	0	0	0.00

Report Date: 06-Feb-2019 17:02:35 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a009.d				
Injection Date:	06-Feb-2019 16:25:52	Instrument ID:	GC70A		
Lims ID:	720-91089-E-9-N	Lab Sample ID:	440-91089-9		
Client ID:	DG-AL5S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

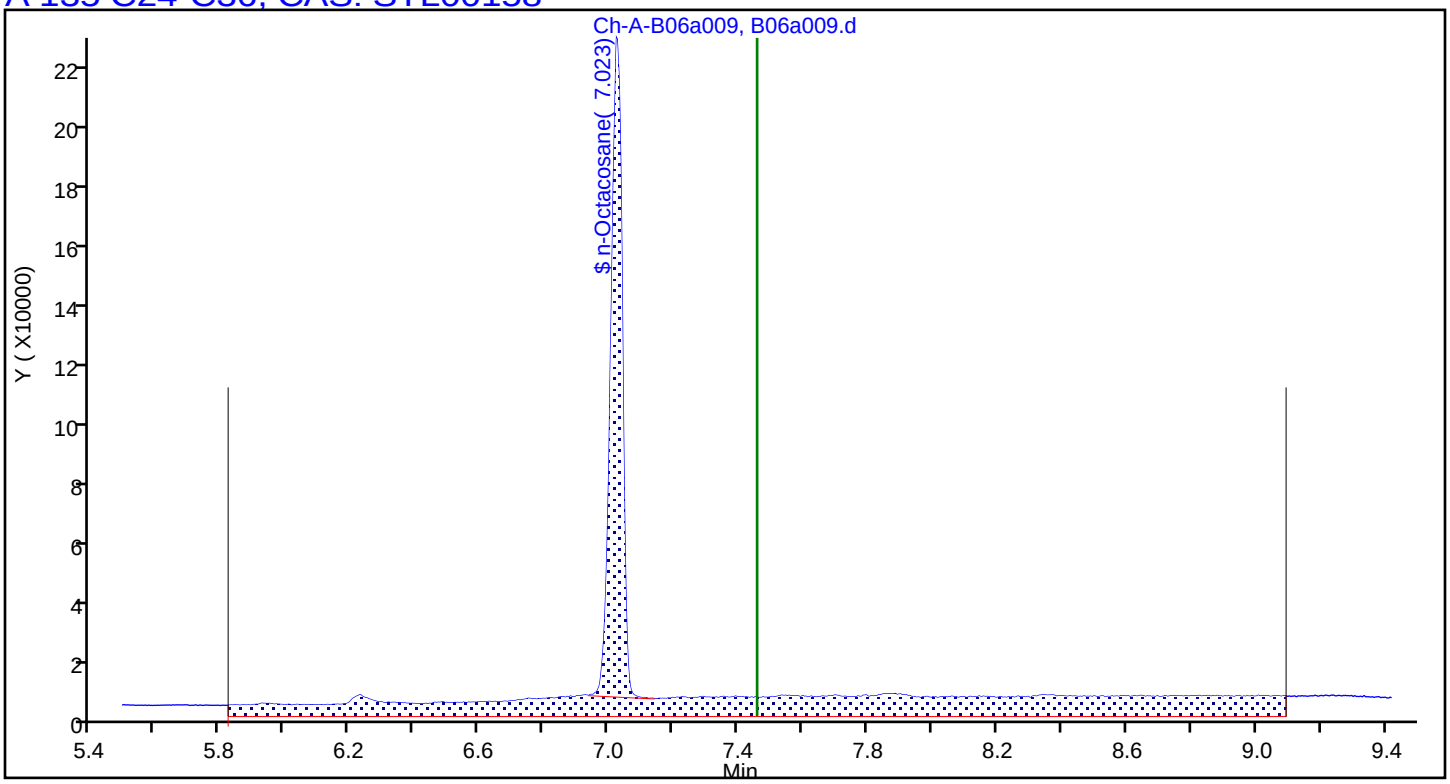


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TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a009.d				
Injection Date:	06-Feb-2019 16:25:52	Instrument ID:	GC70A		
Lims ID:	720-91089-E-9-N	Lab Sample ID:	440-91089-9		
Client ID:	DG-AL5S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a015.d				
Lims ID:	720-91089-E-10-E				
Client ID:	DG-AL5S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 18:33:12	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 19:06:23	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	06-Feb-2019 19:06:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		3090910	853.3	
$ 127 n-Octacosane	7.020	7.027	-0.007	307951	83.7	
A 135 C24-C36	7.458	(5.822-9.095)		5554900	1533.6	

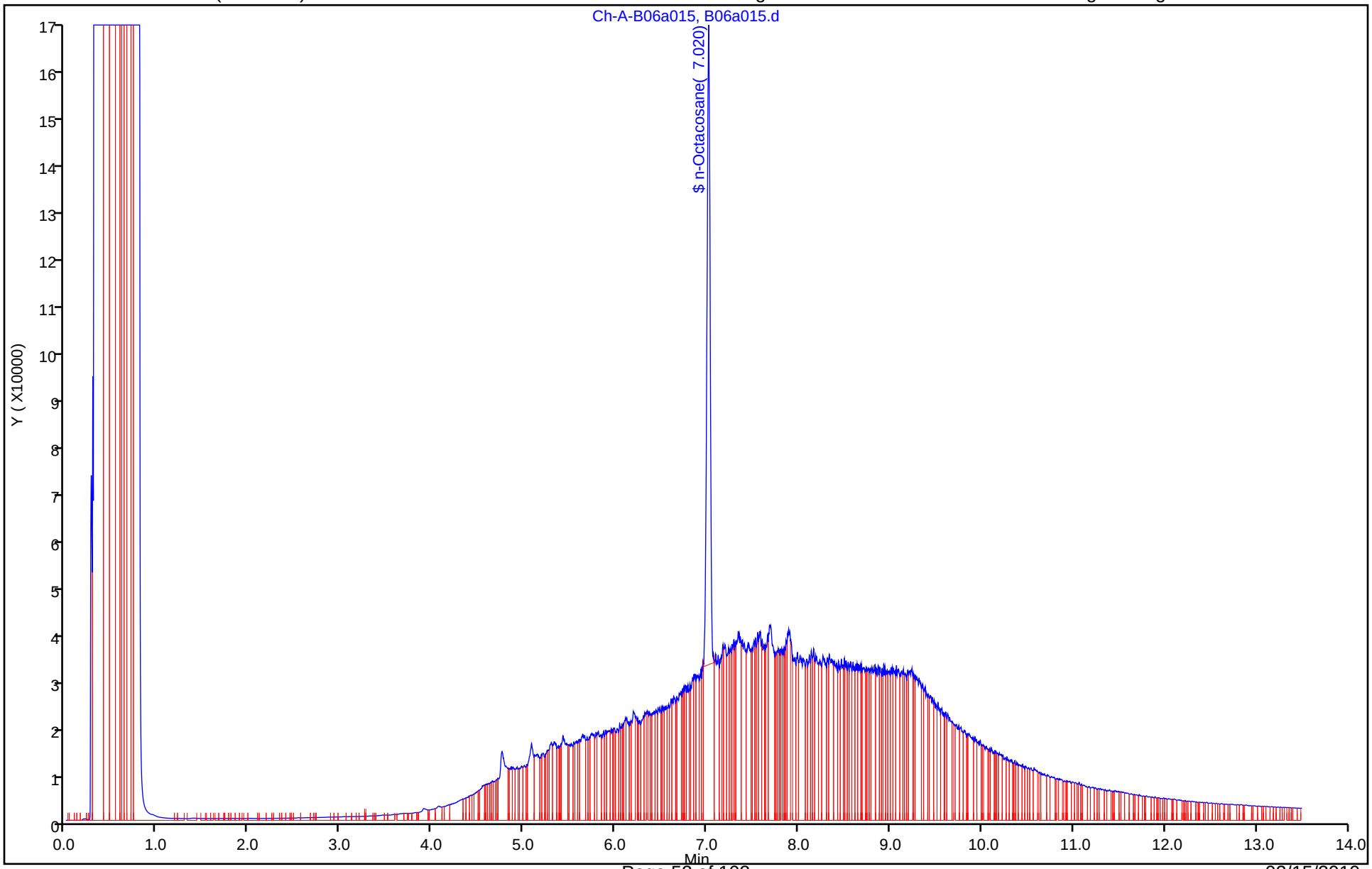
Report Date: 06-Feb-2019 19:06:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a015.d

Injection Date:	06-Feb-2019 18:33:12	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-10-E	Lab Sample ID:	440-91089-10	Worklist Smp#:	15
Client ID:	DG-AL5S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a015.d				
Lims ID:	720-91089-E-10-E				
Client ID:	DG-AL5S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 18:33:12	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 19:06:23	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 06-Feb-2019 19:06:23

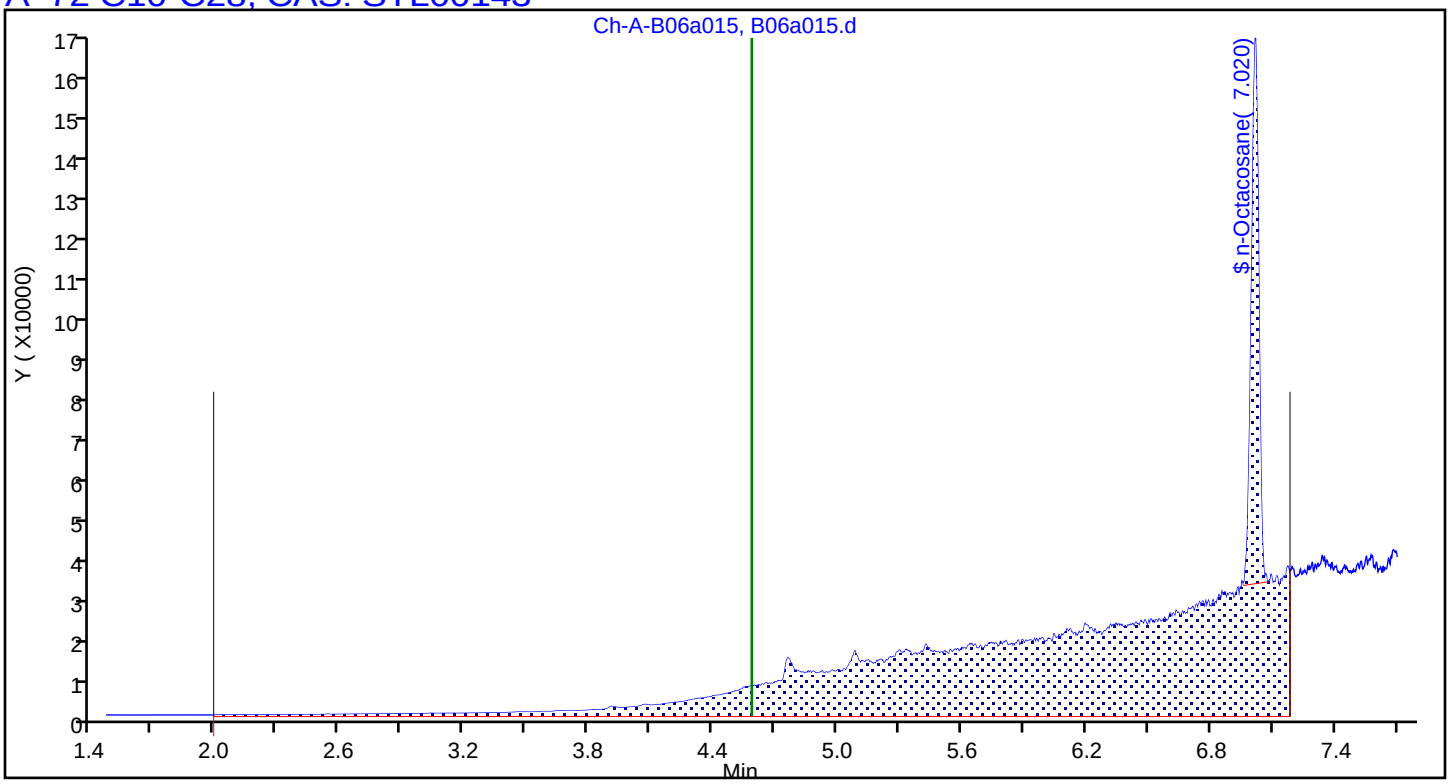
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	83.7	83.71
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 19:06:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a015.d				
Injection Date:	06-Feb-2019 18:33:12	Instrument ID:	GC70A		
Lims ID:	720-91089-E-10-E	Lab Sample ID:	440-91089-10		
Client ID:	DG-AL5S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

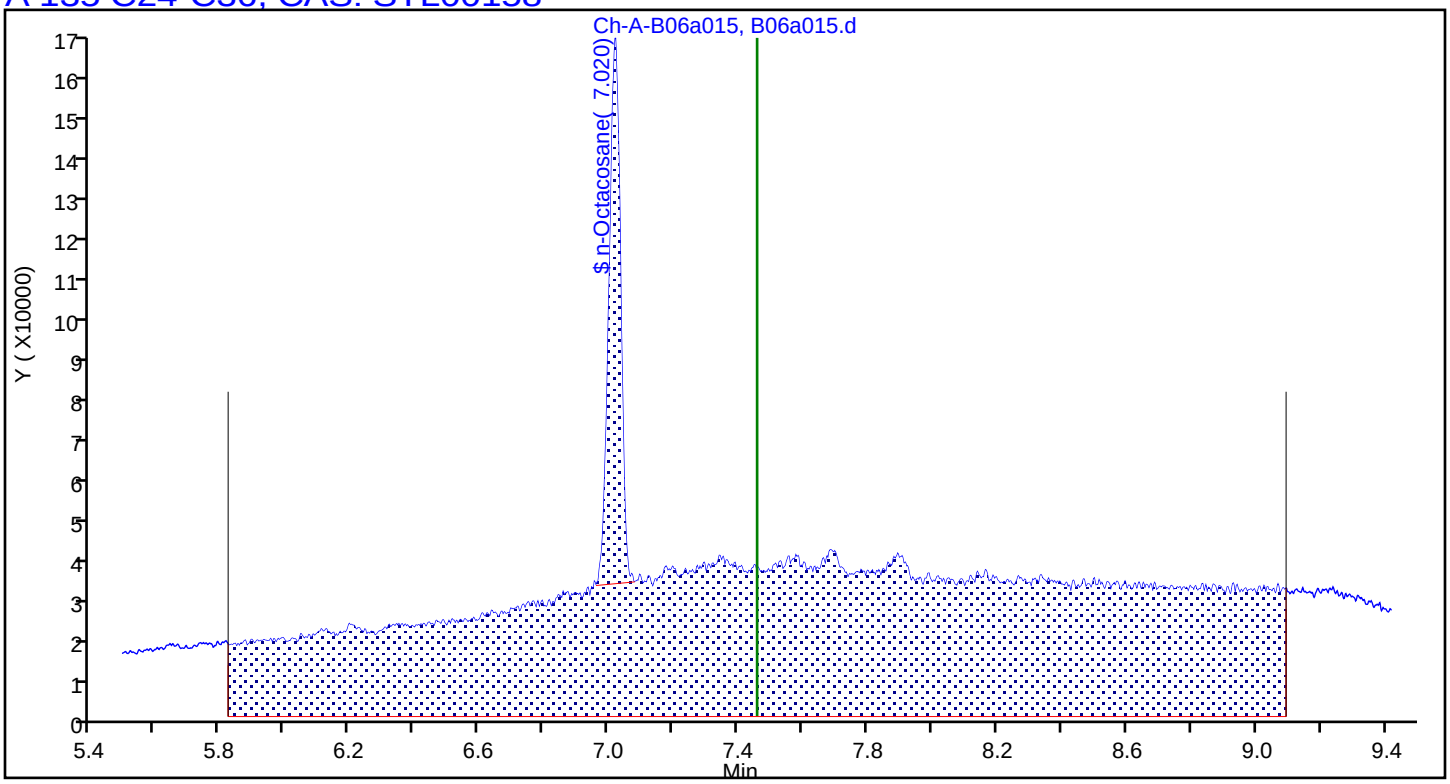


Report Date: 06-Feb-2019 19:06:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a015.d				
Injection Date:	06-Feb-2019 18:33:12	Instrument ID:	GC70A		
Lims ID:	720-91089-E-10-E	Lab Sample ID:	440-91089-10		
Client ID:	DG-AL5S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a019.d				
Lims ID:	720-91089-E-11-E				
Client ID:	DG-AQ7S-0.5-1				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 19:58:44	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 21:09:56	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	06-Feb-2019 21:09:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		334736	92.4	
$ 127 n-Octacosane	7.025	7.027	-0.002	641302	174.3	
A 135 C24-C36	7.458	(5.822-9.095)		354587	97.9	

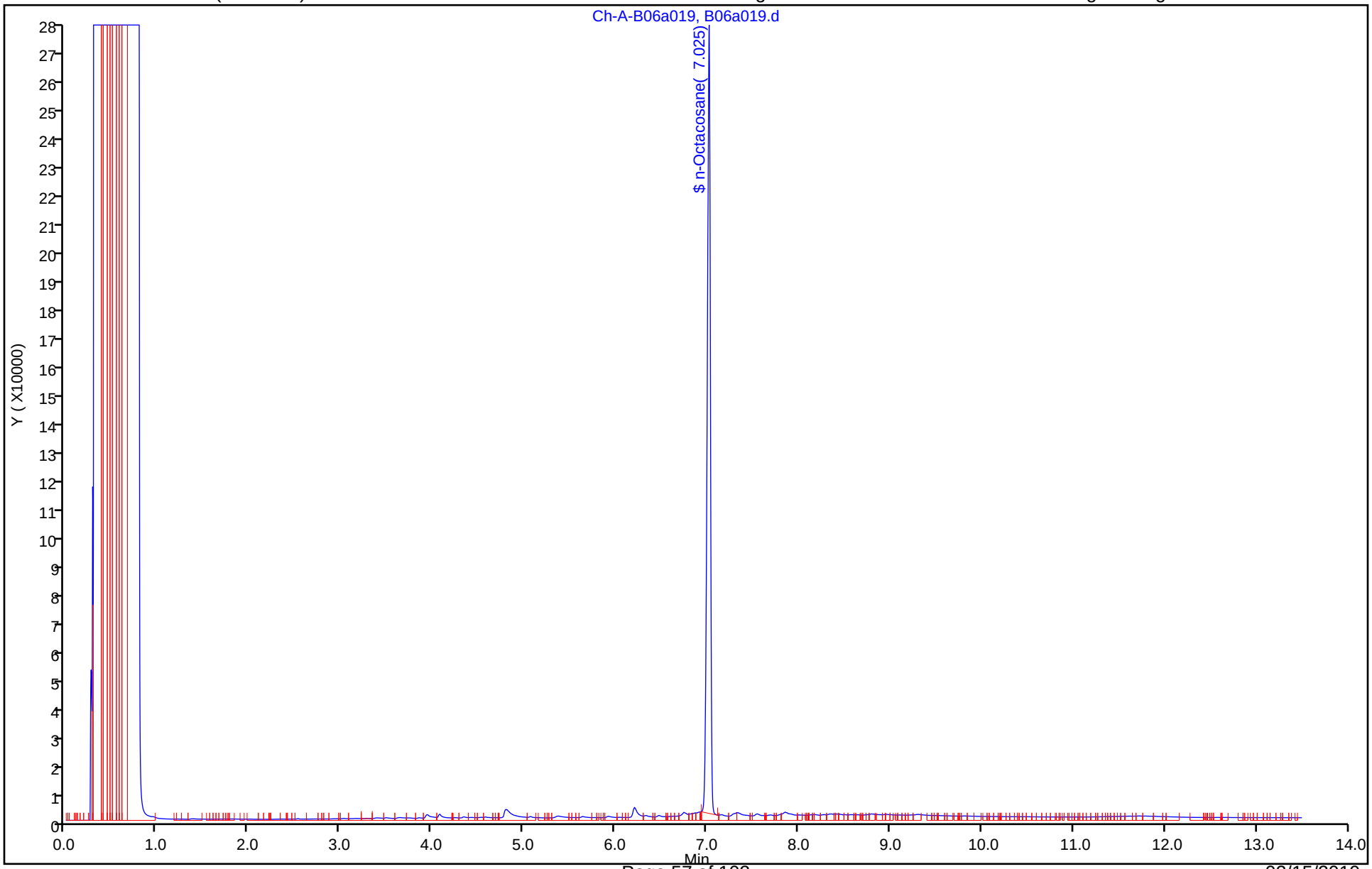
Report Date: 06-Feb-2019 21:09:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a019.d

Injection Date:	06-Feb-2019 19:58:44	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-11-E	Lab Sample ID:	440-91089-11	Worklist Smp#:	19
Client ID:	DG-AQ7S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a019.d				
Lims ID:	720-91089-E-11-E				
Client ID:	DG-AQ7S-0.5-1				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 19:58:44	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 21:09:56	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 06-Feb-2019 21:09:56

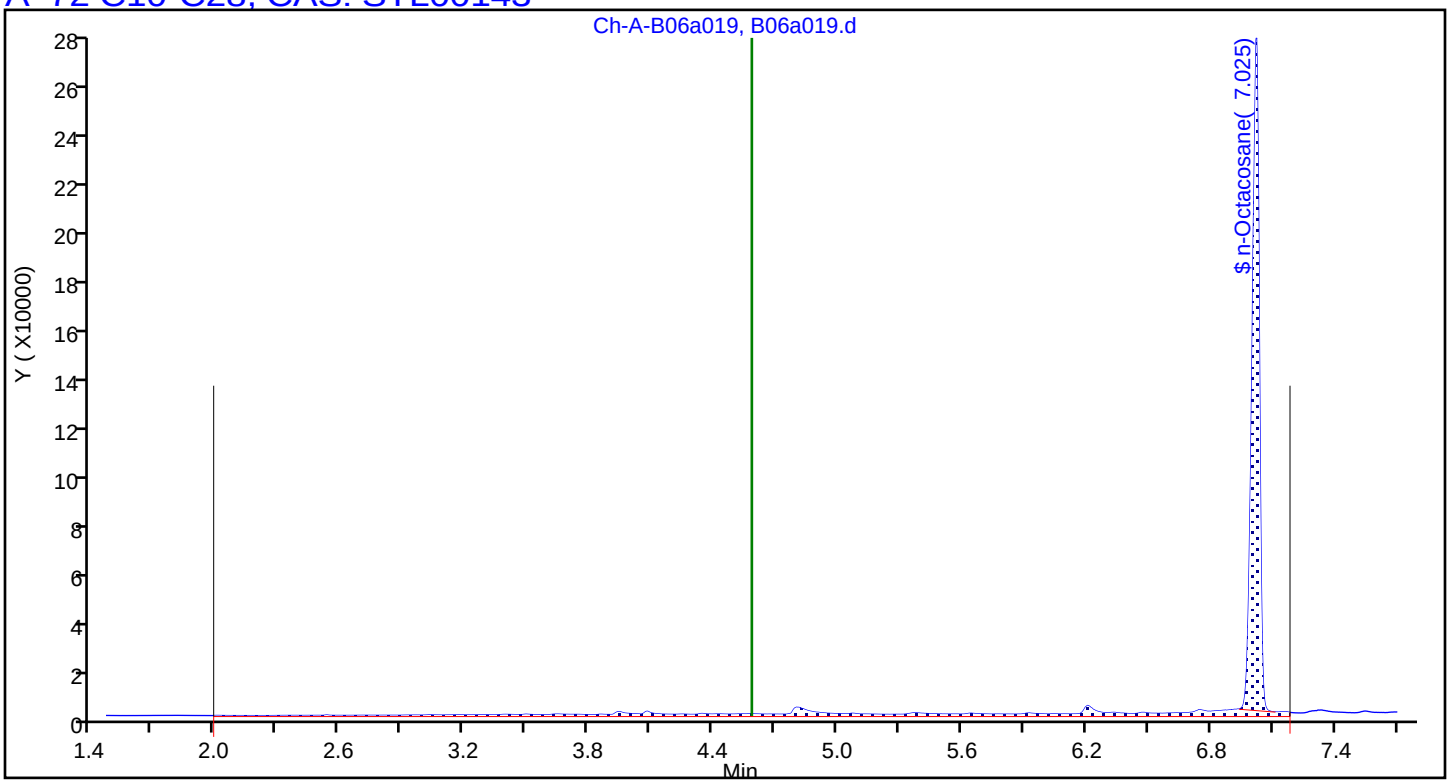
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	174.3	87.16
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 21:09:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a019.d				
Injection Date:	06-Feb-2019 19:58:44	Instrument ID:	GC70A		
Lims ID:	720-91089-E-11-E	Lab Sample ID:	440-91089-11		
Client ID:	DG-AQ7S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

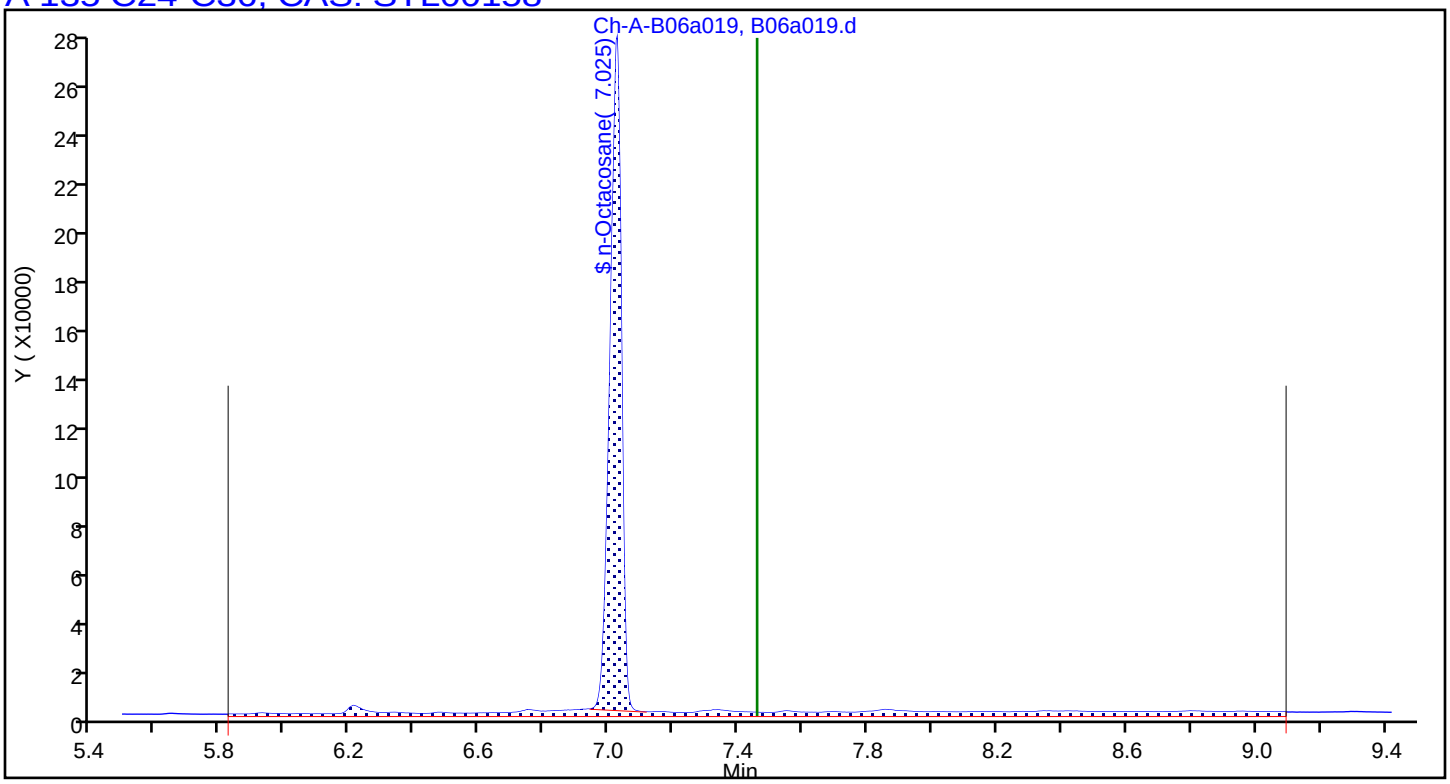


Report Date: 06-Feb-2019 21:09:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a019.d				
Injection Date:	06-Feb-2019 19:58:44	Instrument ID:	GC70A		
Lims ID:	720-91089-E-11-E	Lab Sample ID:	440-91089-11		
Client ID:	DG-AQ7S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a021.d				
Lims ID:	720-91089-E-12-E				
Client ID:	DUP-33				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 20:41:26	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 21:17:23	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	06-Feb-2019 21:17:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		2126289	587.0	
$ 127 n-Octacosane	7.032	7.027	0.005	654816	178.0	
A 135 C24-C36	7.458	(5.822-9.095)		3608829	996.3	

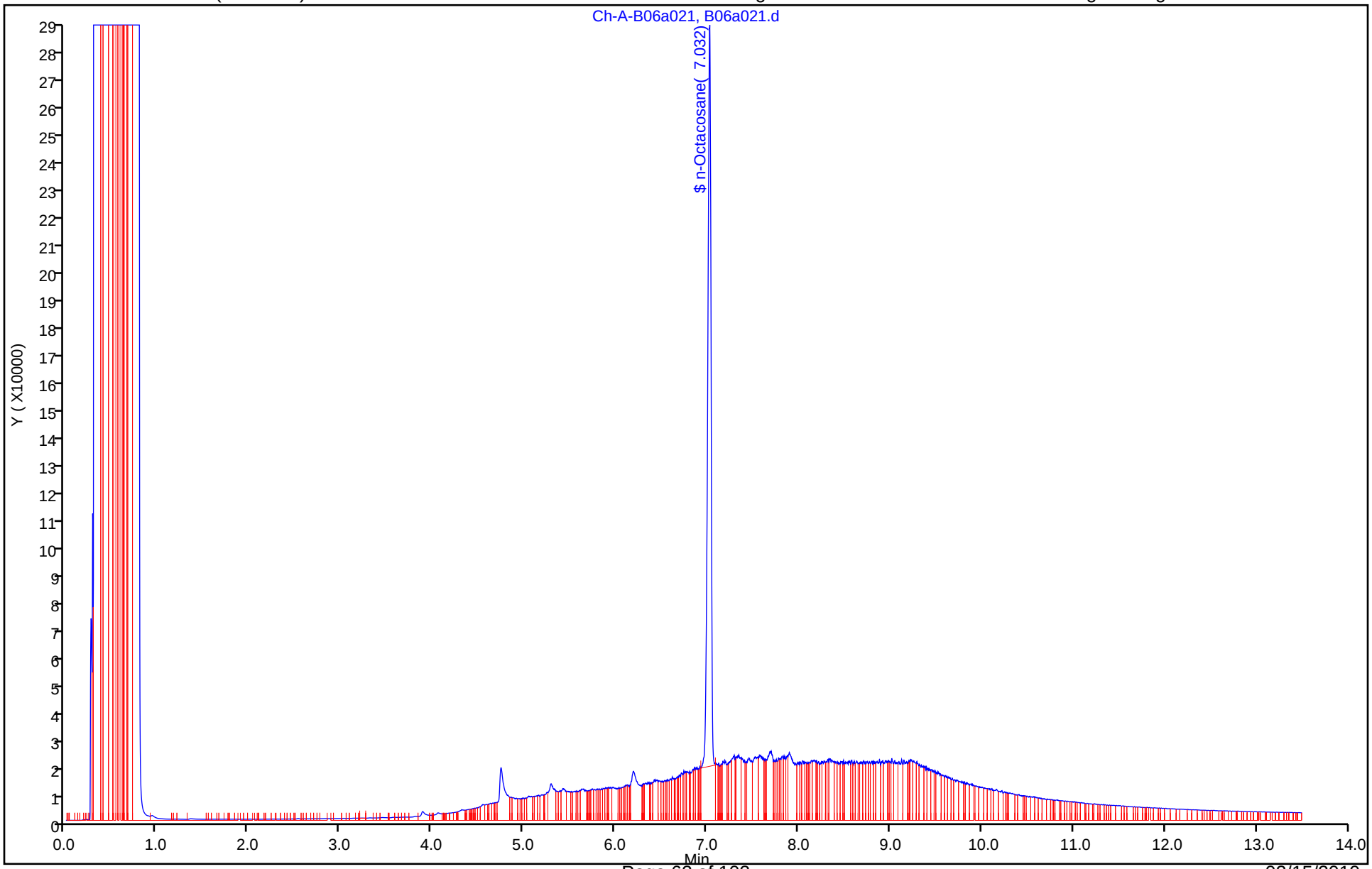
Report Date: 06-Feb-2019 21:17:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a021.d

Injection Date:	06-Feb-2019 20:41:26	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-12-E	Lab Sample ID:	440-91089-12	Worklist Smp#:	21
Client ID:	DUP-33				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a021.d				
Lims ID:	720-91089-E-12-E				
Client ID:	DUP-33				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 20:41:26	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 21:17:23	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 06-Feb-2019 21:17:23

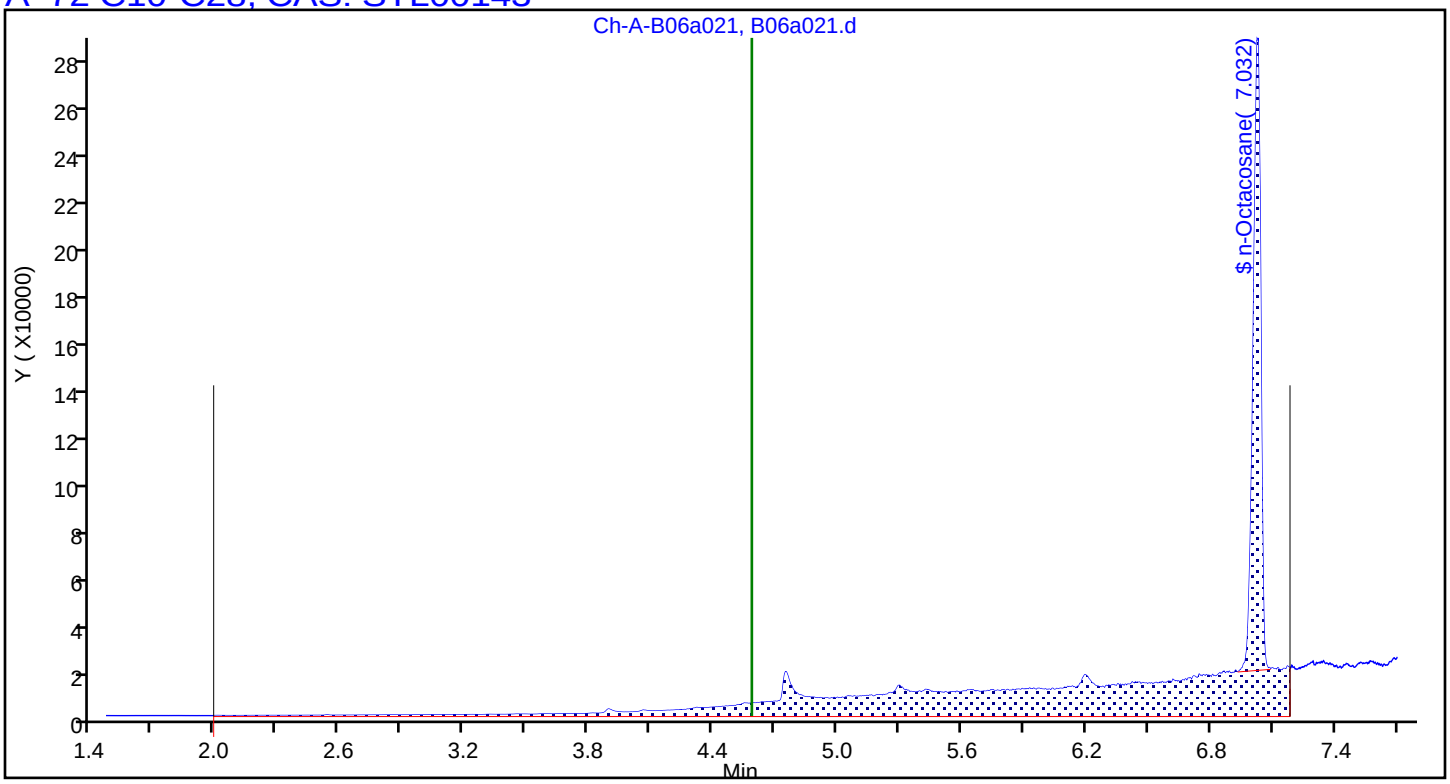
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	178.0	89.00
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 21:17:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a021.d				
Injection Date:	06-Feb-2019 20:41:26	Instrument ID:	GC70A		
Lims ID:	720-91089-E-12-E	Lab Sample ID:	440-91089-12		
Client ID:	DUP-33				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

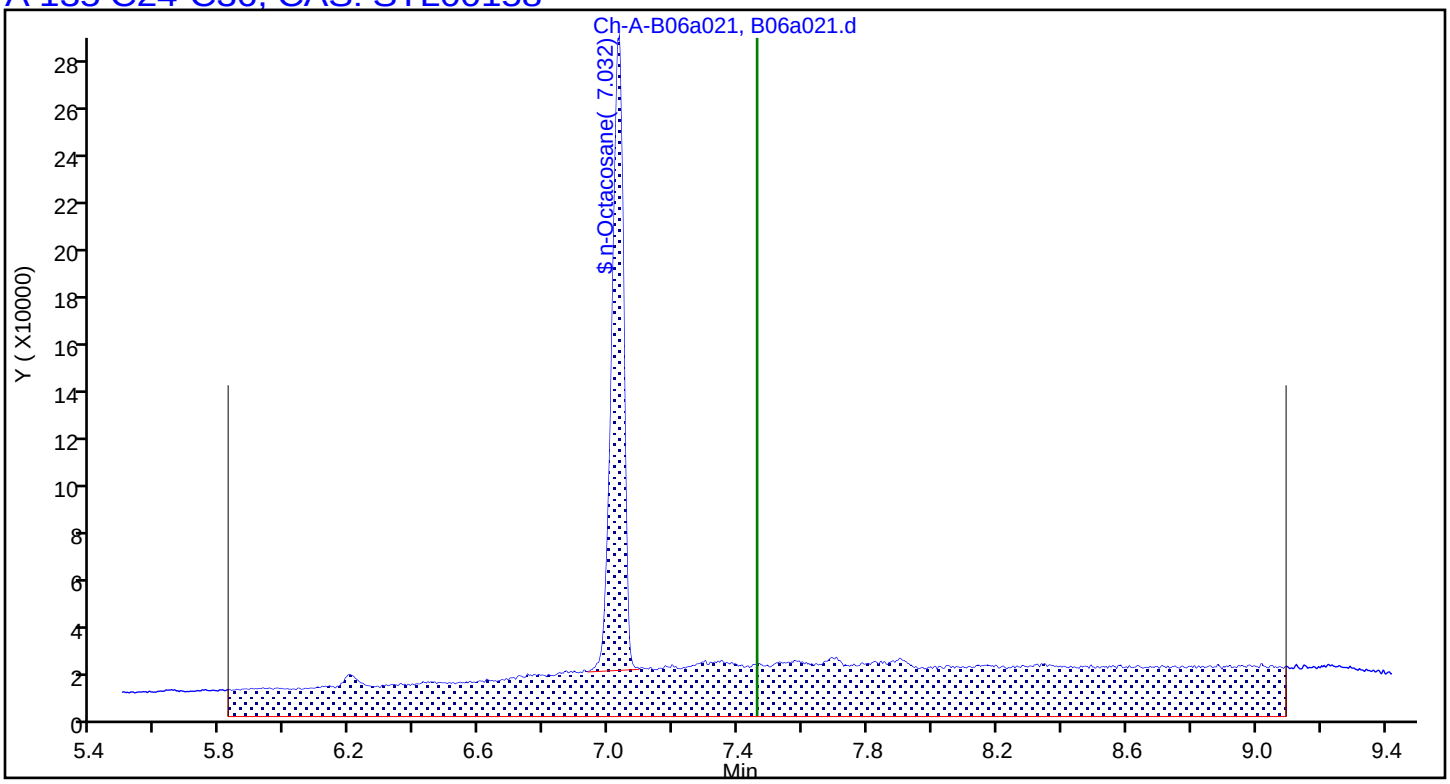


Report Date: 06-Feb-2019 21:17:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a021.d				
Injection Date:	06-Feb-2019 20:41:26	Instrument ID:	GC70A		
Lims ID:	720-91089-E-12-E	Lab Sample ID:	440-91089-12		
Client ID:	DUP-33				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a026.d				
Lims ID:	720-91089-E-13-E				
Client ID:	DG-AQ7S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 22:27:58	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 08:49:47	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				
First Level Reviewer: doanm		Date:	07-Feb-2019 08:49:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		407675	112.6	
$ 127 n-Octacosane	7.025	7.027	-0.002	575532	156.4	
A 135 C24-C36	7.458	(5.822-9.095)		513302	141.7	

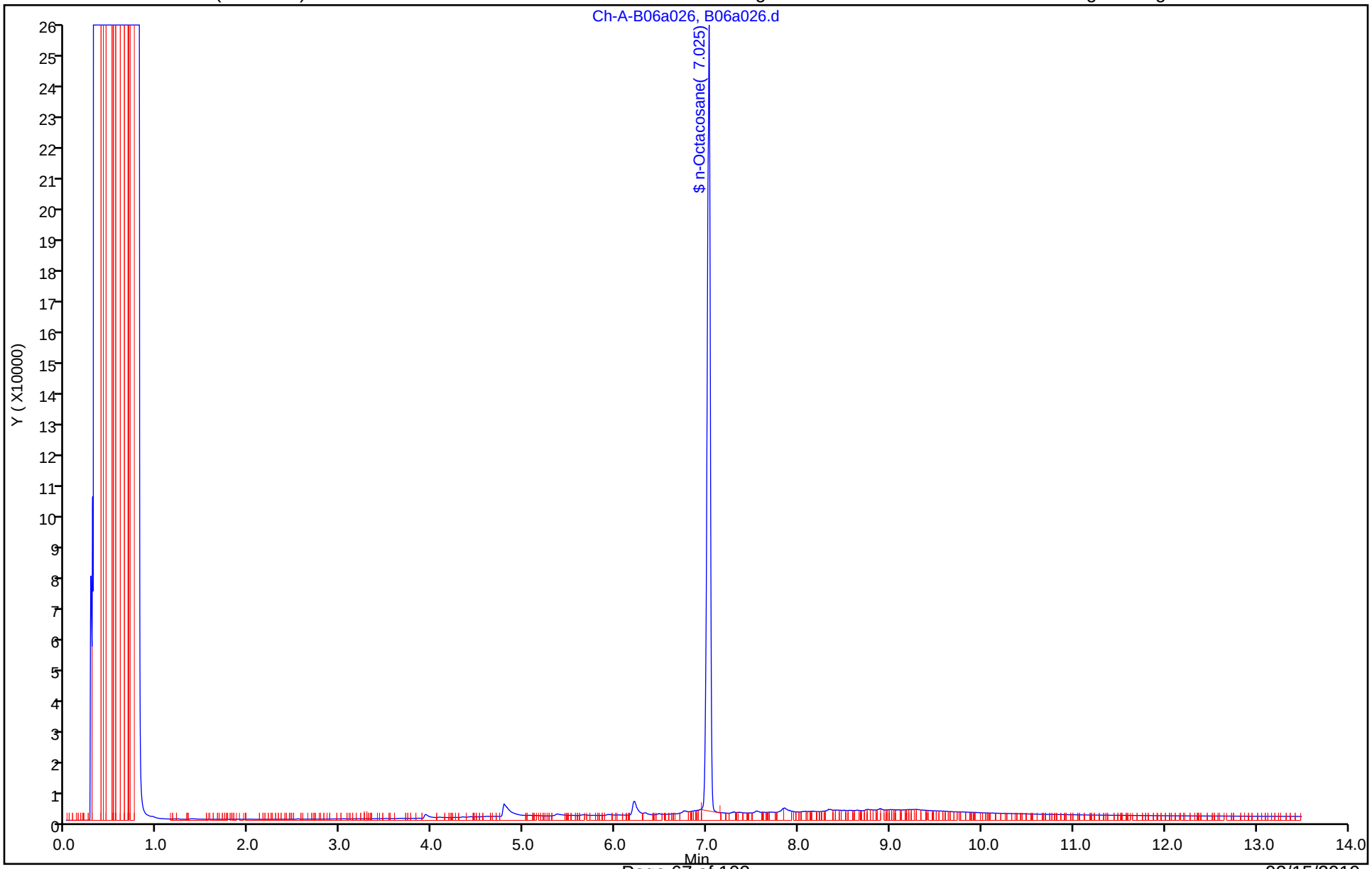
Report Date: 07-Feb-2019 08:49:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a026.d

Injection Date:	06-Feb-2019 22:27:58	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-13-E	Lab Sample ID:	440-91089-13	Worklist Smp#:	26
Client ID:	DG-AQ7S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a026.d				
Lims ID:	720-91089-E-13-E				
Client ID:	DG-AQ7S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 22:27:58	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 08:49:47	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				

First Level Reviewer: doanm Date: 07-Feb-2019 08:49:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	156.4	78.22
$ 178 n-Triacontane-d62	0.0	0	0.00

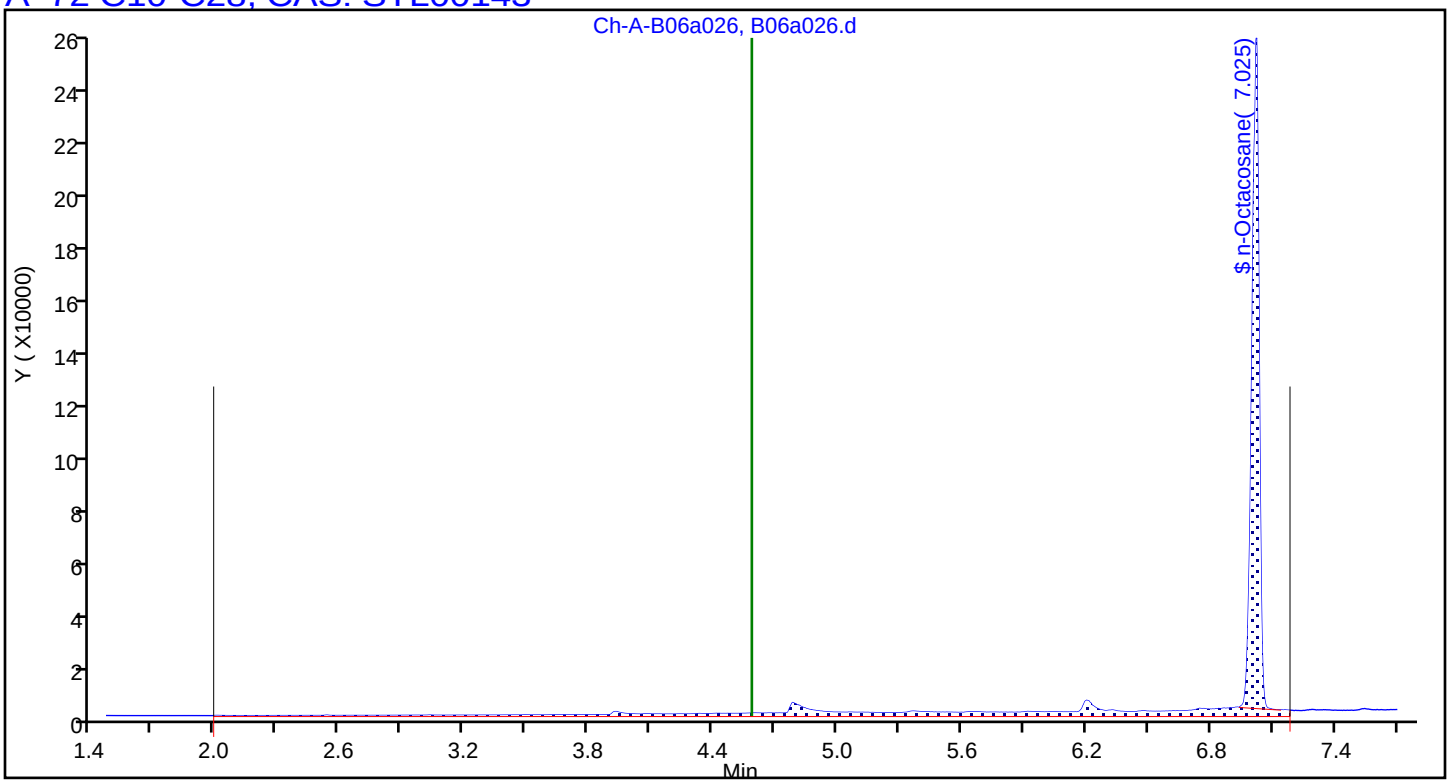
Report Date: 07-Feb-2019 08:49:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a026.d

Injection Date:	06-Feb-2019 22:27:58	Instrument ID:	GC70A		
Lims ID:	720-91089-E-13-E	Lab Sample ID:	440-91089-13		
Client ID:	DG-AQ7S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

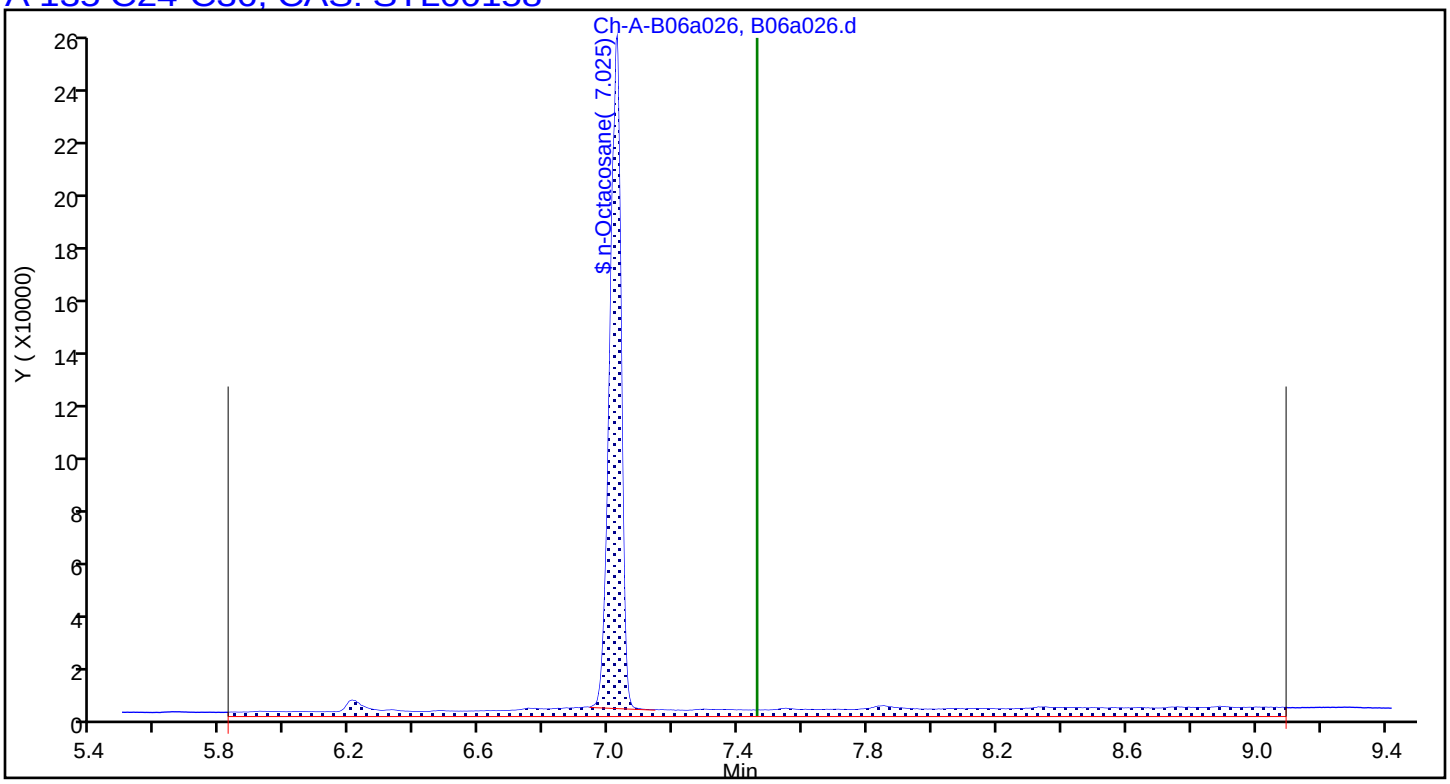


Report Date: 07-Feb-2019 08:49:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a026.d				
Injection Date:	06-Feb-2019 22:27:58	Instrument ID:	GC70A		
Lims ID:	720-91089-E-13-E	Lab Sample ID:	440-91089-13		
Client ID:	DG-AQ7S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a022.d				
Lims ID:	720-91089-E-14-E				
Client ID:	DG-AQ11S-0.5-1				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 21:02:50	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 22:27:47	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	06-Feb-2019 22:27:47		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		1331626	367.6	
$ 127 n-Octacosane	7.018	7.027	-0.009	302387	82.2	
A 135 C24-C36	7.458	(5.822-9.095)		2536113	700.2	

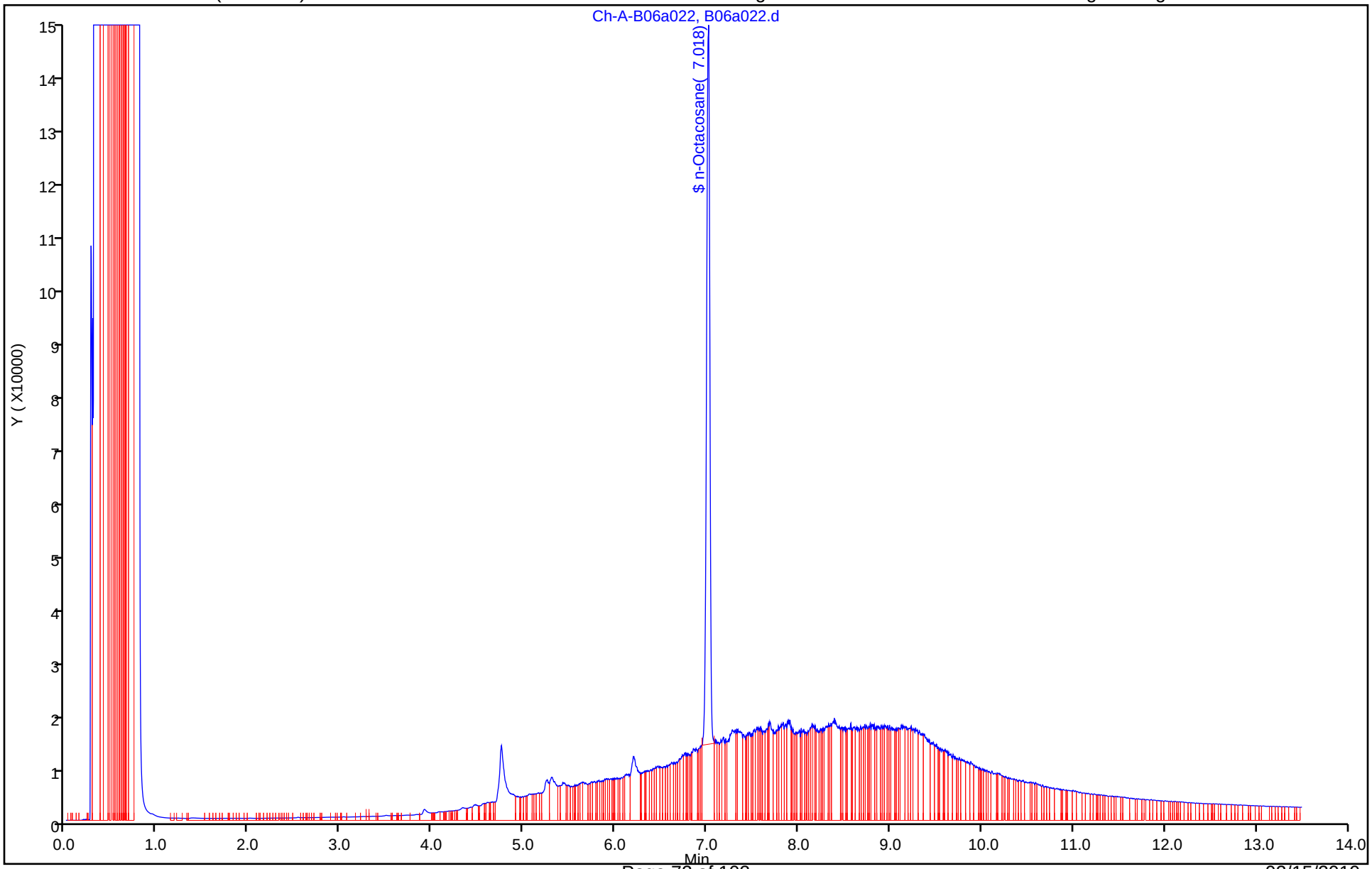
Report Date: 06-Feb-2019 22:27:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a022.d

Injection Date:	06-Feb-2019 21:02:50	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-14-E	Lab Sample ID:	440-91089-14	Worklist Smp#:	22
Client ID:	DG-AQ11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a022.d				
Lims ID:	720-91089-E-14-E				
Client ID:	DG-AQ11S-0.5-1				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 21:02:50	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 22:27:47	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 06-Feb-2019 22:27:47

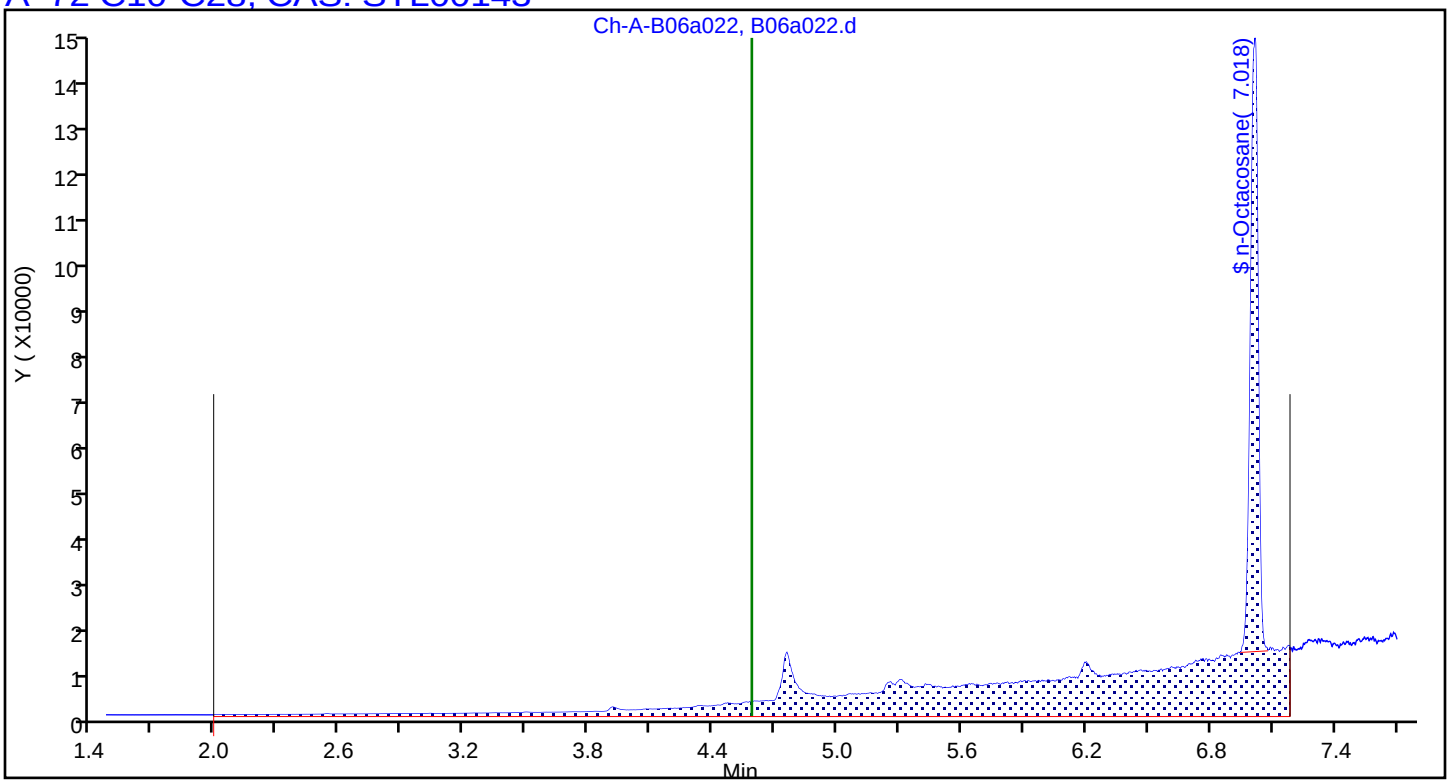
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	82.2	82.20
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 22:27:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a022.d				
Injection Date:	06-Feb-2019 21:02:50	Instrument ID:	GC70A		
Lims ID:	720-91089-E-14-E	Lab Sample ID:	440-91089-14		
Client ID:	DG-AQ11S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

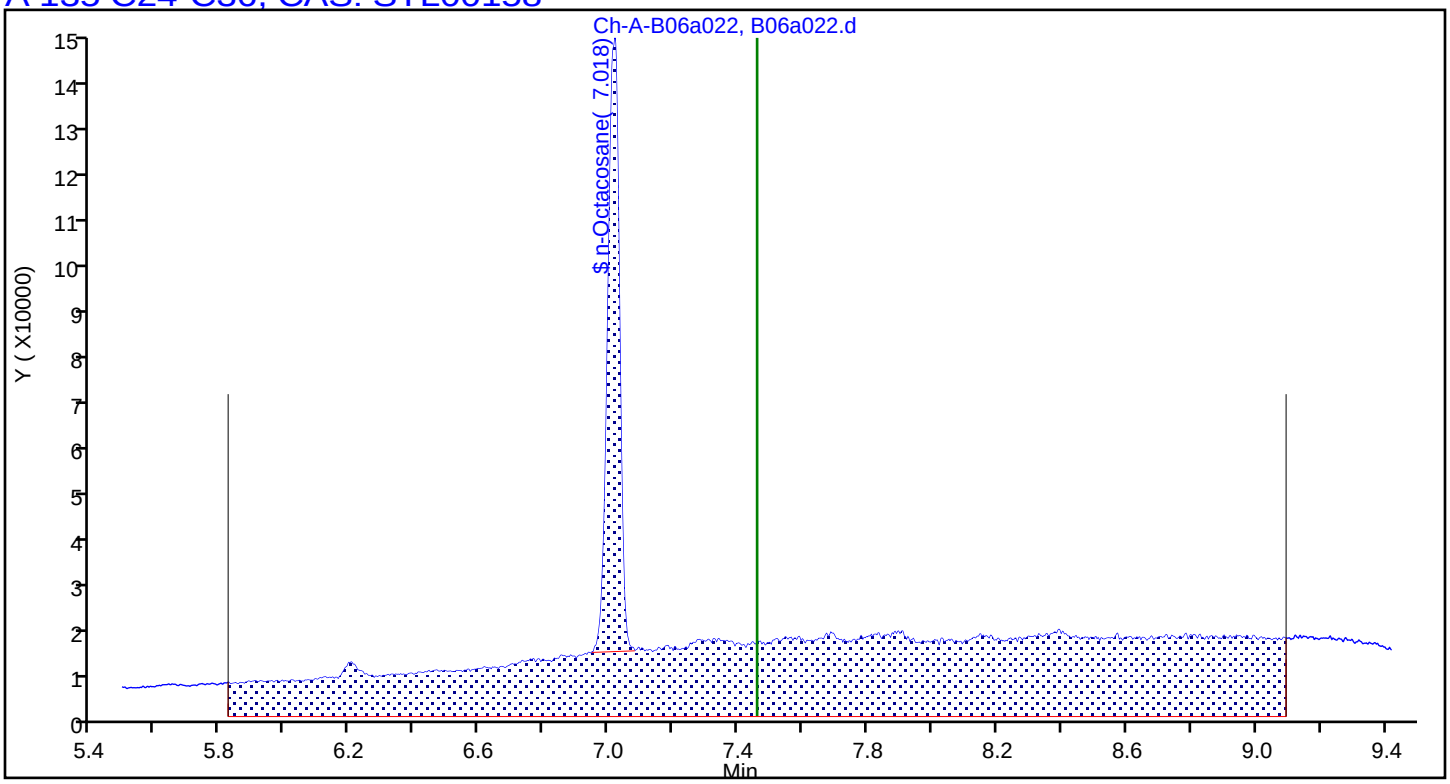


Report Date: 06-Feb-2019 22:27:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a022.d				
Injection Date:	06-Feb-2019 21:02:50	Instrument ID:	GC70A		
Lims ID:	720-91089-E-14-E	Lab Sample ID:	440-91089-14		
Client ID:	DG-AQ11S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a025.d				
Lims ID:	720-91089-E-15-E				
Client ID:	DG-AQ11S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 22:06:41	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 22:32:04	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	06-Feb-2019 22:32:04		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		355174	98.1	
$ 127 n-Octacosane	7.023	7.027	-0.004	599301	162.9	
A 135 C24-C36	7.458	(5.822-9.095)		417262	115.2	

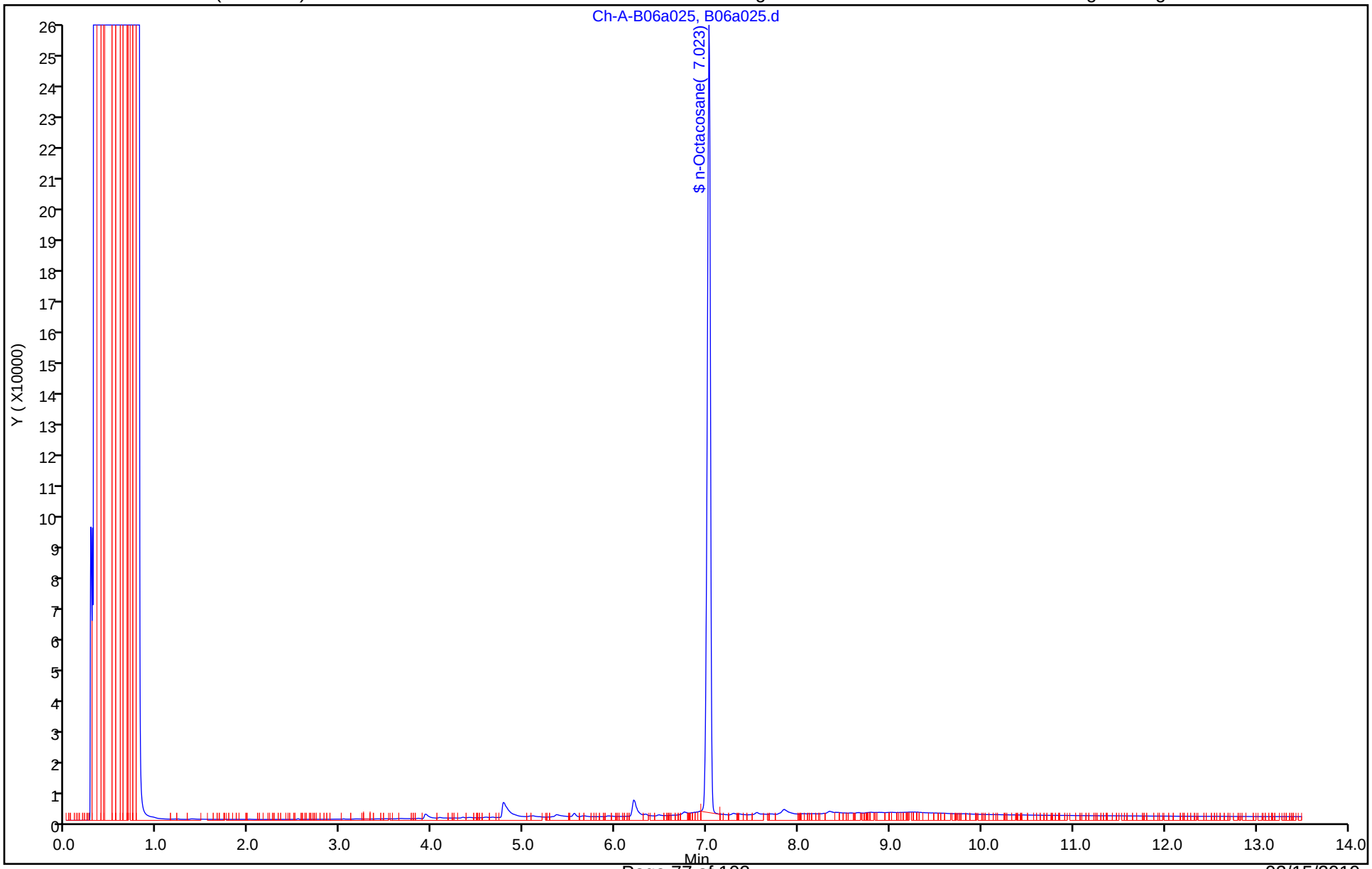
Report Date: 06-Feb-2019 22:32:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a025.d

Injection Date:	06-Feb-2019 22:06:41	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-15-E	Lab Sample ID:	440-91089-15	Worklist Smp#:	25
Client ID:	DG-AQ11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a025.d				
Lims ID:	720-91089-E-15-E				
Client ID:	DG-AQ11S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 22:06:41	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 22:32:04	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 06-Feb-2019 22:32:04

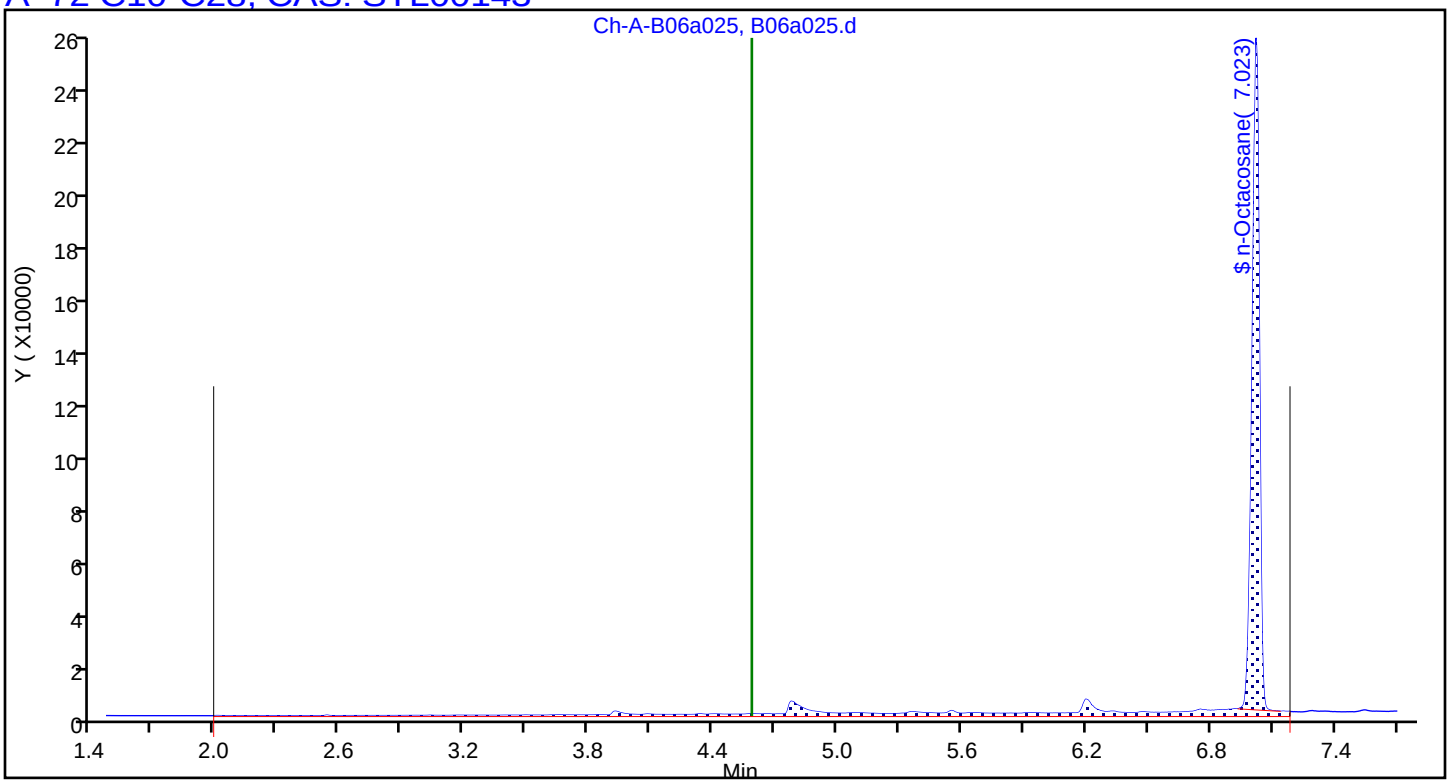
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	162.9	81.45
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 22:32:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a025.d				
Injection Date:	06-Feb-2019 22:06:41	Instrument ID:	GC70A		
Lims ID:	720-91089-E-15-E	Lab Sample ID:	440-91089-15		
Client ID:	DG-AQ11S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

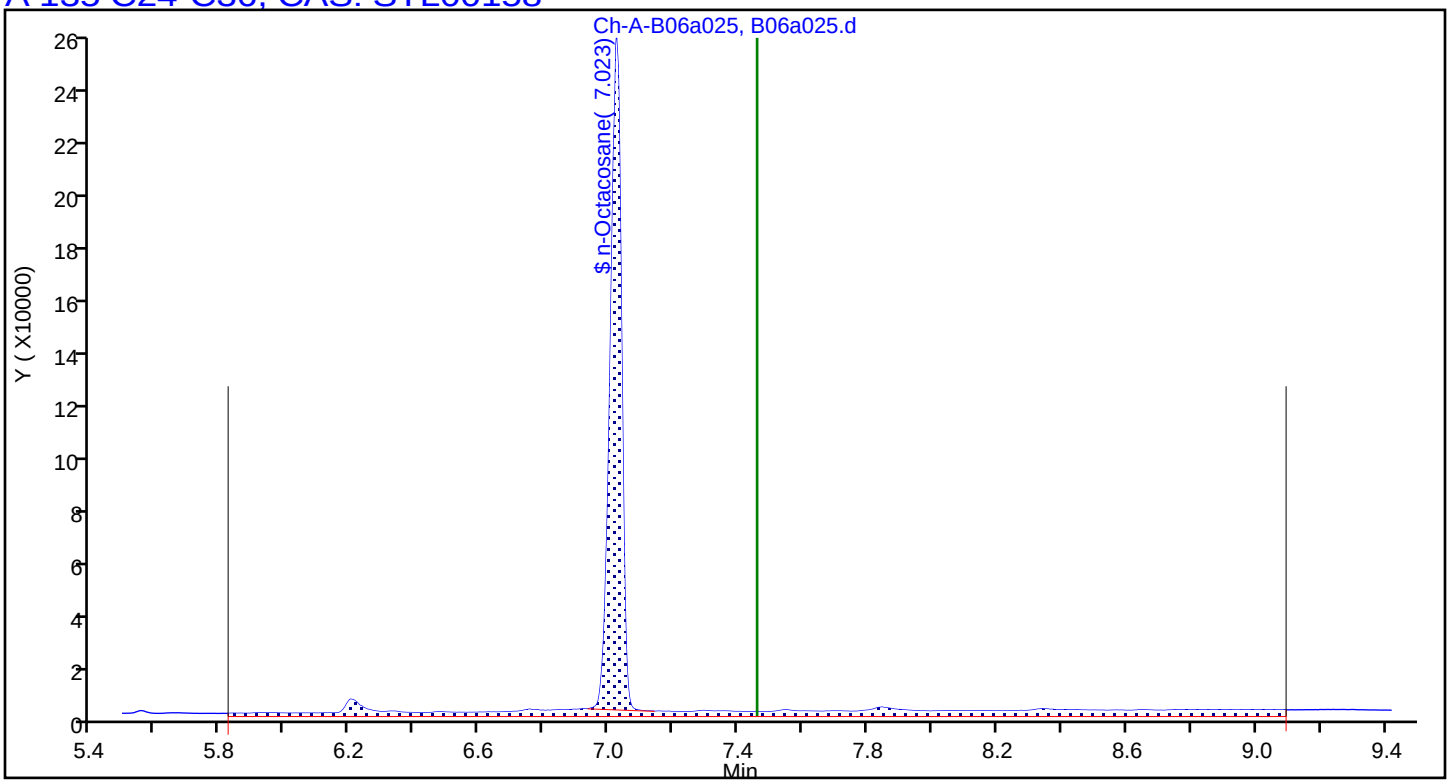


Report Date: 06-Feb-2019 22:32:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a025.d				
Injection Date:	06-Feb-2019 22:06:41	Instrument ID:	GC70A		
Lims ID:	720-91089-E-15-E	Lab Sample ID:	440-91089-15		
Client ID:	DG-AQ11S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a031.d				
Lims ID:	720-91089-E-16-C				
Client ID:	DG-AT9S-0.5-1				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 00:14:09	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 09:01:39	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				
First Level Reviewer: doanm		Date:	07-Feb-2019 09:01:39		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		899455	248.3	
$ 127 n-Octacosane	7.032	7.027	0.005	613601	166.8	
A 135 C24-C36	7.458	(5.822-9.095)		1368397	377.8	

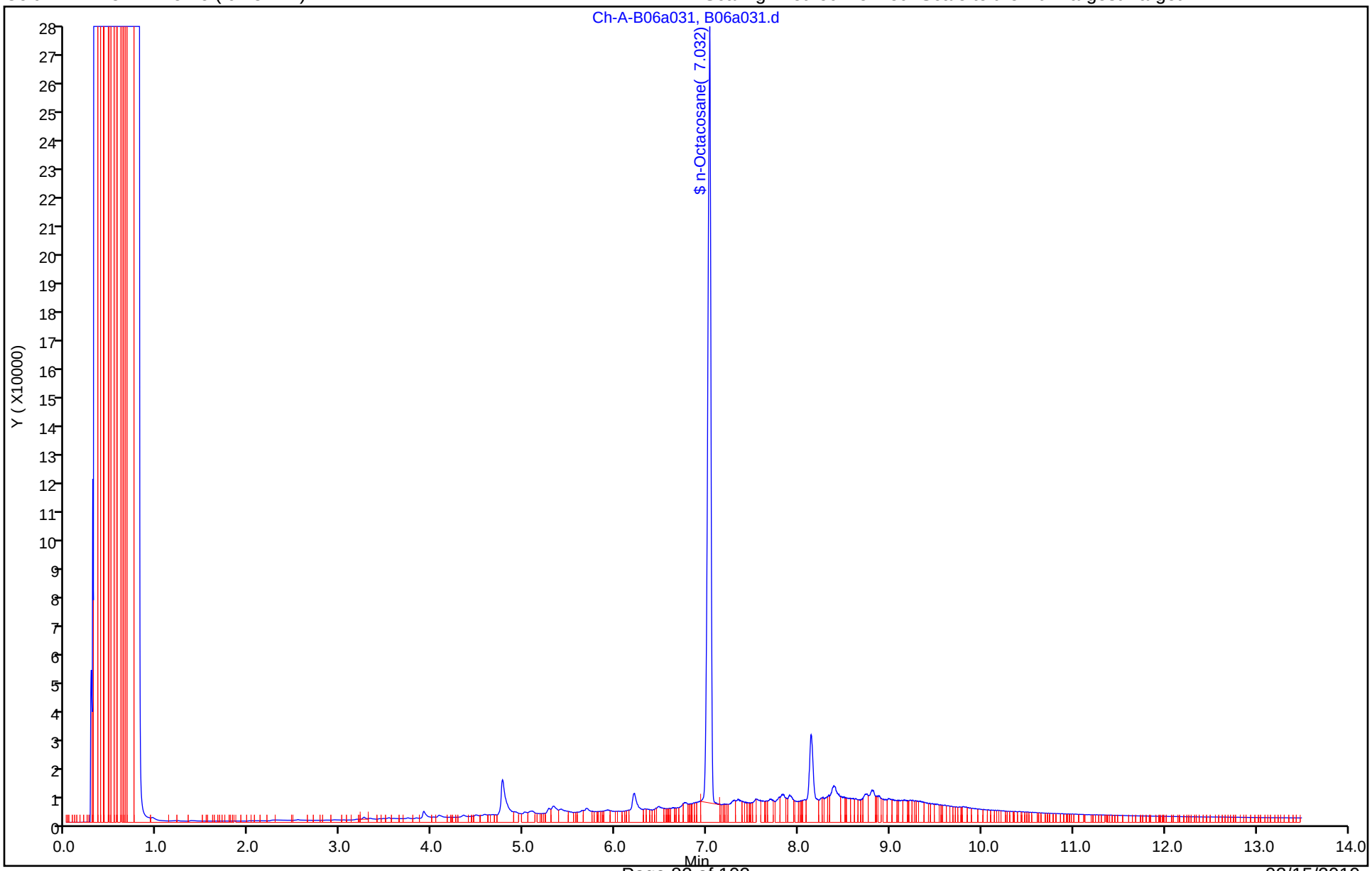
Report Date: 07-Feb-2019 09:01:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a031.d

Injection Date:	07-Feb-2019 00:14:09	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-16-C	Lab Sample ID:	440-91089-16	Worklist Smp#:	27
Client ID:	DG-AT9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a031.d				
Lims ID:	720-91089-E-16-C				
Client ID:	DG-AT9S-0.5-1				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 00:14:09	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 09:01:39	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0322				

First Level Reviewer: doanm Date: 07-Feb-2019 09:01:39

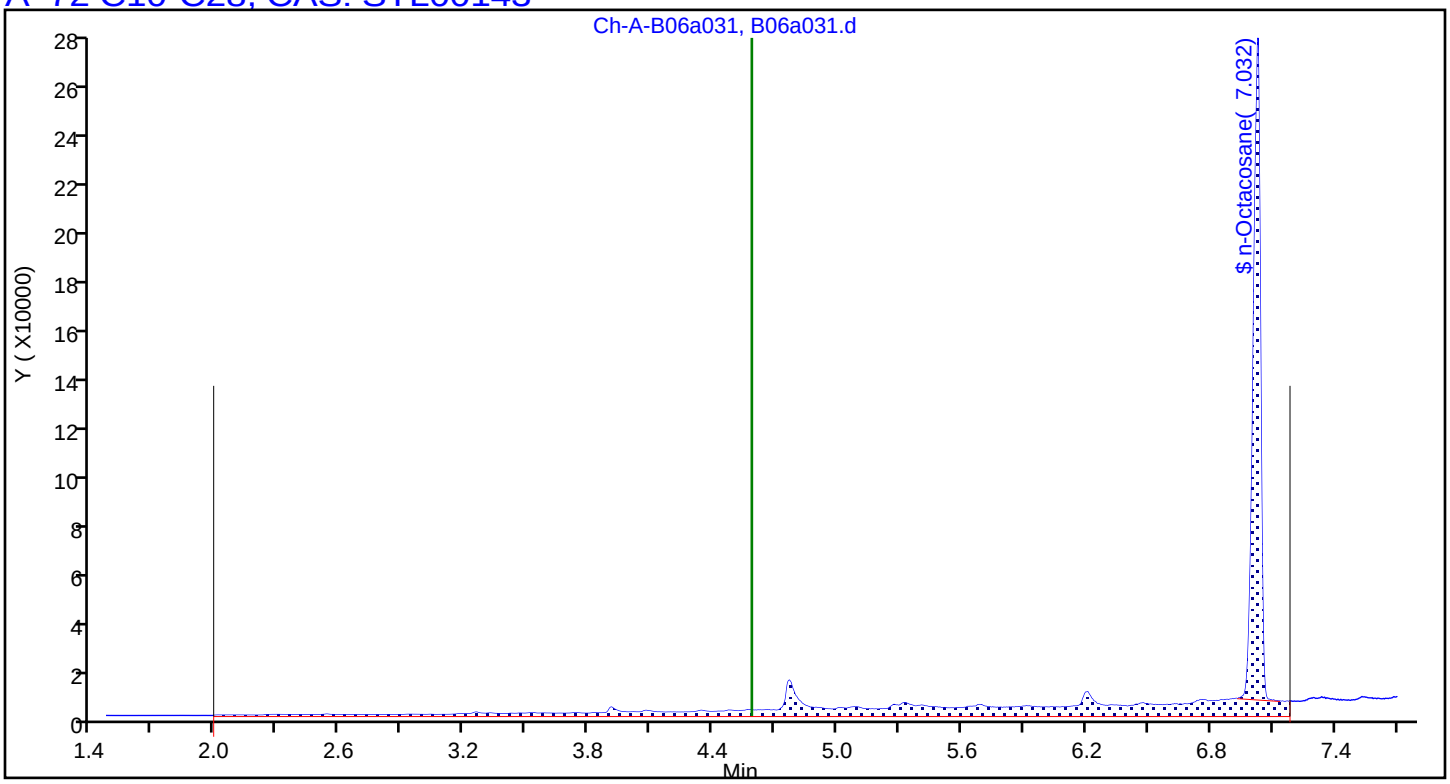
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	166.8	83.40
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 09:01:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a031.d				
Injection Date:	07-Feb-2019 00:14:09	Instrument ID:	GC70A		
Lims ID:	720-91089-E-16-C	Lab Sample ID:	440-91089-16		
Client ID:	DG-AT9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

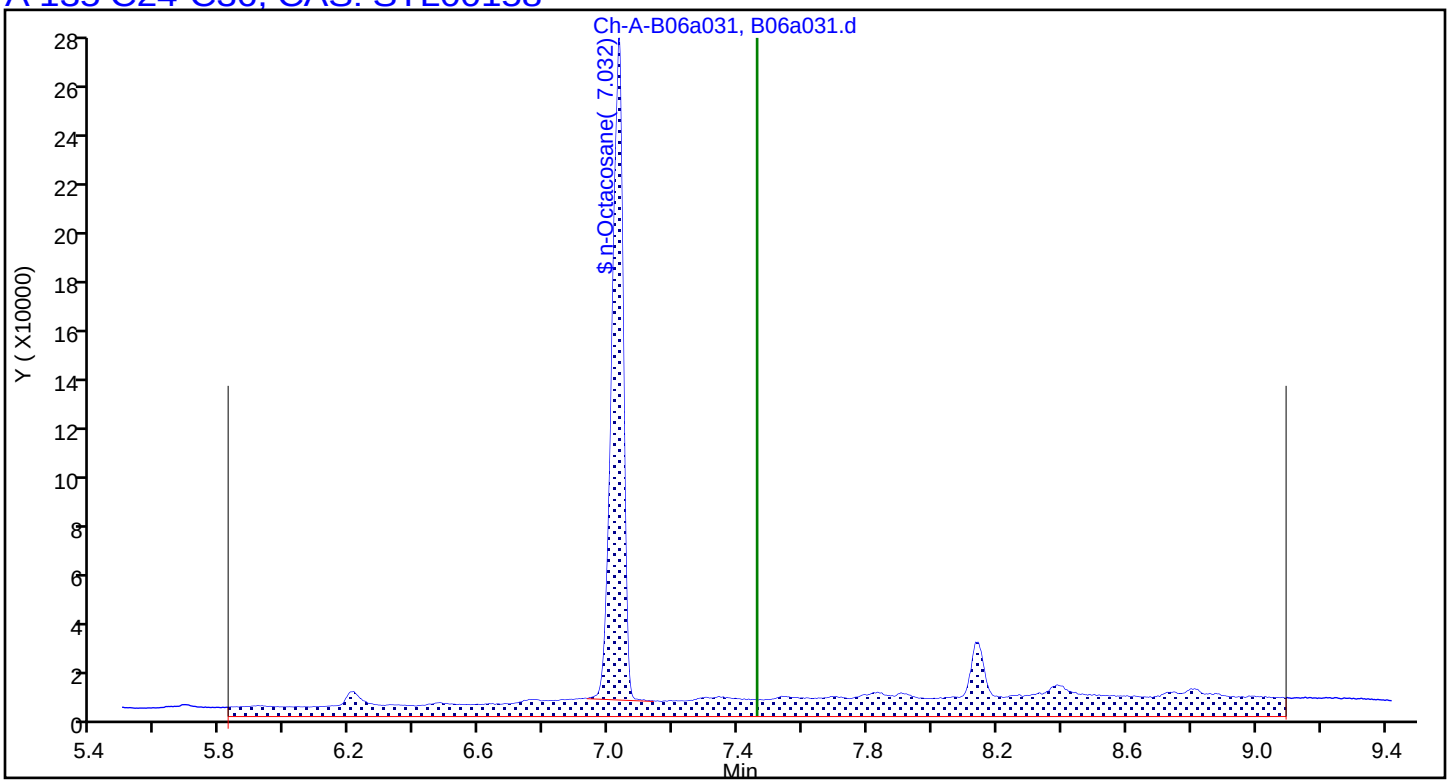


Report Date: 07-Feb-2019 09:01:41 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a031.d				
Injection Date:	07-Feb-2019 00:14:09	Instrument ID:	GC70A		
Lims ID:	720-91089-E-16-C	Lab Sample ID:	440-91089-16		
Client ID:	DG-AT9S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a017.d				
Lims ID:	720-91089-E-17-C				
Client ID:	DG-AT9S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 19:16:07	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 21:09:28	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				
First Level Reviewer: barnettl		Date:	06-Feb-2019 21:09:28		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.988-7.187)		459706	126.9	
$ 127 n-Octacosane	7.022	7.027	-0.005	516428	140.4	
A 135 C24-C36	7.458	(5.822-9.095)		407846	112.6	

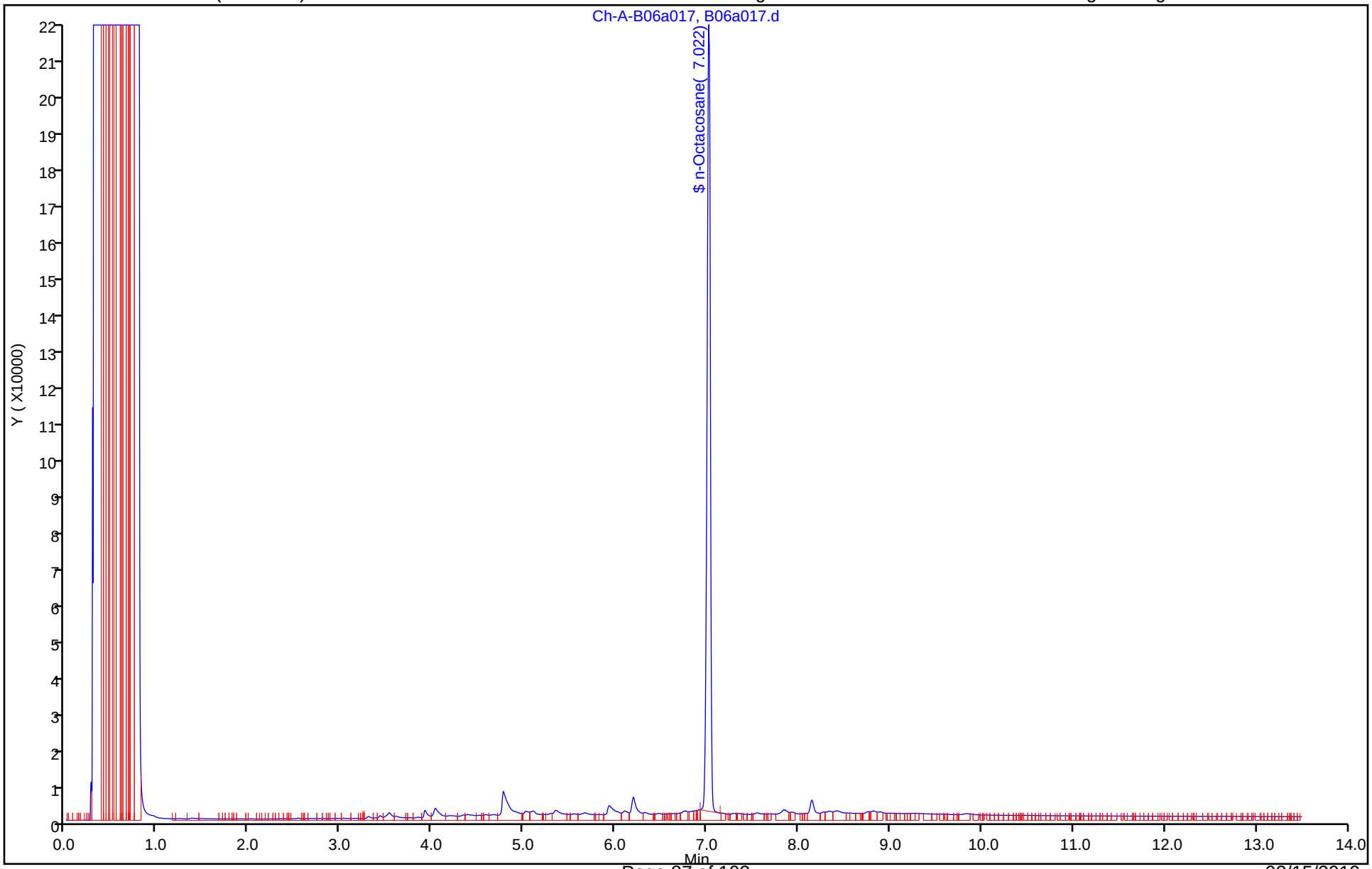
Report Date: 06-Feb-2019 21:09:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a017.d

Injection Date:	06-Feb-2019 19:16:07	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91089-E-17-C	Lab Sample ID:	440-91089-17	Worklist Smp#:	17
Client ID:	DG-AT9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a017.d				
Lims ID:	720-91089-E-17-C				
Client ID:	DG-AT9S-3.5-4				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 19:16:07	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 21:09:28	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0320				

First Level Reviewer: barnettl Date: 06-Feb-2019 21:09:28

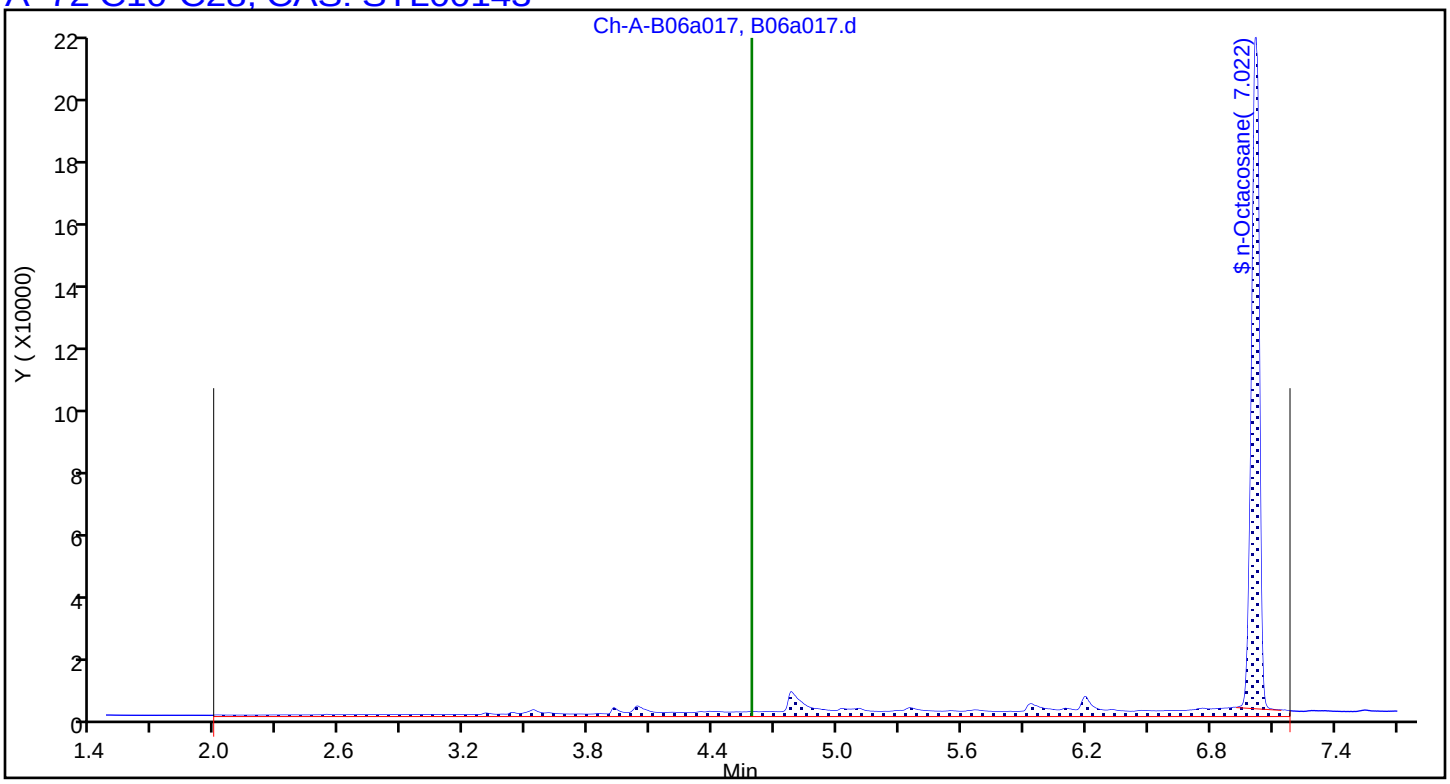
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	140.4	70.19
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 21:09:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a017.d				
Injection Date:	06-Feb-2019 19:16:07	Instrument ID:	GC70A		
Lims ID:	720-91089-E-17-C	Lab Sample ID:	440-91089-17		
Client ID:	DG-AT9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

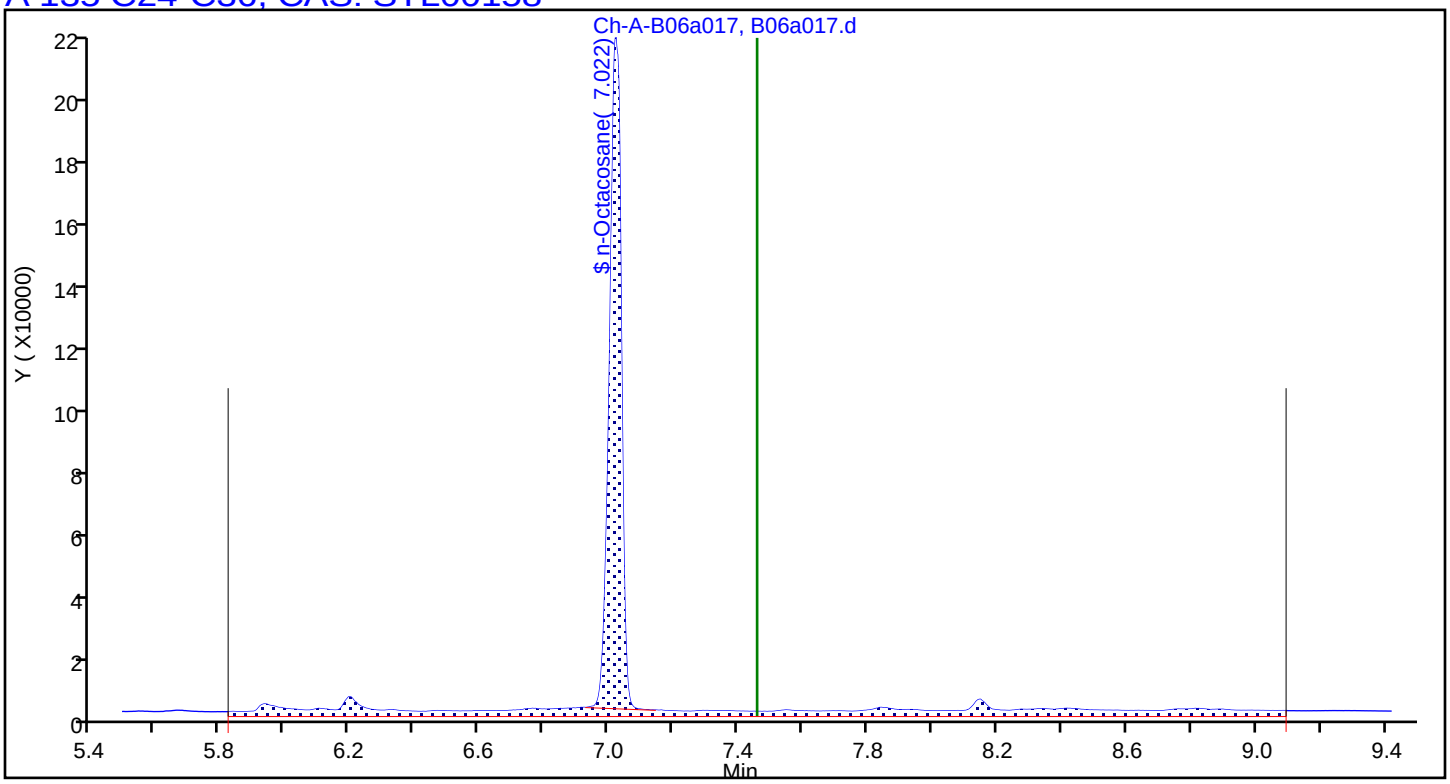


Report Date: 06-Feb-2019 21:09:29 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190206-115181.b\B06a017.d				
Injection Date:	06-Feb-2019 19:16:07	Instrument ID:	GC70A		
Lims ID:	720-91089-E-17-C	Lab Sample ID:	440-91089-17		
Client ID:	DG-AT9S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91089

Chain of Custody Record

TestAmerica
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Shafmaster
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			720-91089 Chain of Custody
bchen@geosyntec com, mkahnlas@geosyntec.com, tsmith @geosyntec com	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Project Name Brisbane OU2 Investigation				
Site Brisbane OU2				
P O # WG2619/ TA project # 72013947				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1	DG-AG7s-0.5-1	30 Jan. 2019	0910	G	S	7	N		X	X	X	X	X	X	X	
2	DG-AG7s-3.5-4		0910													
3	DG-AB9s-0.5-1		1020													
4	DG-AB9s-3.5-4		1020													
5	DG-AH9s-0.5-1		1040													
6	DG-AH9s-3.5-4		1040													
7	DG-AJ9s-0.5-1		1100													
8	DG-AJ9s-3.5-4		1100													
9	DG-AL5s-0.5-1		1130					Y								
10	DG-AL5s-3.5-4		1130													
11	DG-AQ7s-0.5-1		1330													
12	DUP-33	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.9°C, 1.0°C, 0.7°C

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd ____ Corr'd: ____ Therm ID No. ____			
Relinquished by	Company Geosyntec	Date/Time 16:12 29 Jan 2019	Received by	Company TA PLS	Date/Time 1-30-19 16:00
Relinquished by	Company TA PLS	Date/Time 1-30-19 18:45	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91089

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec.com, mkahntas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name Brisbane OU2 Investigation	☐ 1 week			Job / SDG No.
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13 DG-AQ7s-3.5-4	30 Jan 2019	1330	G	S	7	N		X	X	X	X	X	X	X	
14 DG-AQ11s-0.5-1		1400													
15 DG-AQ11s-3.5-4		1400													
16 DG-AT9s-0.5-1		1430													
17 DG-AT9s-3.5-4		1430													
18 DG-AV9s-0.5-1		1500													
19 DG-AV9s-3.5-4		1500													
20 DG-AV9s-7.5-8		1500	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
21 FB-01.30.19		—			2			X							
22 TB-01.30.19	↓	—			2			X							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No. ____	
Relinquished by	Company: Geosyntec	Date/Time: 16:40 29 Jan. 2019	Received by	Company: TA PLS	Date/Time: 1-30-19 16:40
Relinquished by	Company: TA PLS	Date/Time: 1830 1-30-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/15/2019

720-91089
GEOSYNTEC WED.
TERRA COTES

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC02

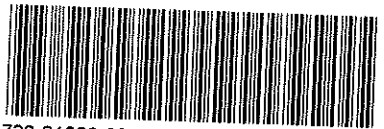
FedEx Express Package(s) - Dropped Off
478645743171 31.3 lbs. (S)

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 30, 2019 4:51:11 PM



720-91089-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478645743171	COC No: 720-41010.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8082/3546 Standard 8082 PCB Test	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instr
DG-AG7S-0 5-1 (720-91089-1)	1/30/19	09:10 Pacific		Solid	X	X	X			4
DG-AG7S-3.5-4 (720-91089-2)	1/30/19	09:10 Pacific		Solid	X	X	X			
DG-AB9S-0.5-1 (720-91089-3)	1/30/19	10:20 Pacific		Solid	X	X	X			
DG-AB9S-3.5-4 (720-91089-4)	1/30/19	10:20 Pacific		Solid	X	X	X			
DG-AH9S-0.5-1 (720-91089-5)	1/30/19	10:40 Pacific		Solid	X	X	X			
DG-AH9S-3.5-4 (720-91089-6)	1/30/19	10:40 Pacific		Solid	X	X	X			
DG-AJ9S-0.5-1 (720-91089-7)	1/30/19	11:00 Pacific		Solid	X	X	X			
DG-AJ9S-3.5-4 (720-91089-8)	1/30/19	11:00 Pacific		Solid	X	X	X			
DG-AL5S-0.5-1 (720-91089-9)	1/30/19	11:30 Pacific		Solid	X	X	X			3

720-91089 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O R.RICH
Relinquished by:	Date/Time: 1/30/19 16:51	Company: TA-PLS	Received by: / Date/Time: / Company:
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: 1/31/19 0945 / Company: TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6/1.0 IR93

Encores or Terracores Frozen
Date: 01/31/19 Time: 14:45 Initials: OO

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-41010.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260BCA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035B 8260-(MOD) VOCs	8260BCA_LUFTMS/5035B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AL5S-0.5-1 (720-91089-9MS)	1/30/19	11:30 Pacific	MS	Solid	X	X			2
DG-AL5S-0.5-1 (720-91089-9MSD)	1/30/19	11:30 Pacific	MSD	Solid	X	X			1
DG-AL5S-3.5-4 (720-91089-10)	1/30/19	11:30 Pacific		Solid	X	X			4
DG-AQ7S-0.5-1 (720-91089-11)	1/30/19	13:30 Pacific		Solid	X	X			
DUP-33 (720-91089-12)	1/30/19	Pacific		Solid	X	X			
DG-AQ7S-3.5-4 (720-91089-13)	1/30/19	13:30 Pacific		Solid	X	X			
DG-AQ11S-0.5-1 (720-91089-14)	1/30/19	14:00 Pacific		Solid	X	X			
DG-AQ11S-3.5-4 (720-91089-15)	1/30/19	14:00 Pacific		Solid	X	X			
DG-AT9S-0.5-1 (720-91089-16)	1/30/19	14:30 Pacific		Solid	X	X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX 1/0
Relinquished by:	Date/Time: 1/30/19 1651	Company TA-PLS	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: 1/31/19 0445 Company TA PLV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Perform MS/MSD (Y/N)	8260/CA_LUFTMS/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AT9S-3.5-4 (720-91089-17)	1/30/19	14:30 Pacific		Solid		X	X			
DG-AV9S-0.5-1 (720-91089-18)	1/30/19	15:00 Pacific		Solid		X	X			
DG-AV9S-3.5-4 (720-91089-19)	1/30/19	15:00 Pacific		Solid		X	X			
DG-AV9S-7.5-8 (720-91089-20)	1/30/19	15:00 Pacific		Solid		X	X			
FB-01.30.19 (720-91089-21)	1/30/19	Pacific		Water				X	X	check for 2 phases
TB-01.30.19 (720-91089-22)	1/30/19	Pacific		Water				X	X	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX D/O
Relinquished by:	Date/Time: 1/30/19 16:51	Company: TA PLS	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: 1/31/19 0945 / Company: TA IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

720-91089
GEOSYNTEC WED.
TERRA COTES

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC02

FedEx Express Package(s) - Dropped Off
478645743171 31.3 lbs. (S)

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 30, 2019 4:51:11 PM



720-91089-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91089

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
#188178
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Shortman
Oakland, CA 94607	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91089 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1 DG-AG7s-0.5-1	30 Jan. 2019	0910	G	S	7	N		X	X	X	X	X	X	X	
2 DG-AG7s-3.5-4		0910													
3 DG-AB9s-0.5-1		1020													
4 DG-AB9s-3.5-4		1020													
5 DG-AH9s-0.5-1		1040													
6 DG-AH9s-3.5-4		1040													
7 DG-AJ9s-0.5-1		1100													
8 DG-AJ9s-3.5-4		1100													
9 DG-AL5s-0.5-1		1130					Y								
10 DG-AL5s-3.5-4		1130													
11 DG-AQ7s-0.5-1		1330													
12 DUP-33	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

3.9°C, 1.0°C, 0.7°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Geosyntec	Date/Time: 16:00 29 Jan. 2019	Received by:	Company: TA PLS	Date/Time: 1-30-19 16:00
Relinquished by:	Company: TA PLS	Date/Time: 1-30-19 18:45	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91089

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
188178
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 30 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nathan Schatmeier
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client.
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
13	DG-AQ7s-3.5-4	30 Jan 2019	1330	G	S	7	N		X	X	X	X	X	X	X	
14	DG-AQ11s-0.5-1		1400													
15	DG-AQ11s-3.5-4		1400													
16	DG-AT9s-0.5-1		1430													
17	DG-AT9s-3.5-4		1430													
18	DG-AV9s-0.5-1		1500													
19	DG-AV9s-3.5-4		1500													
20	DG-AV9s-7.5-8		1500	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	
21	FB-01.30.19		-			2			X							
22	TB-01.30.19	↓	-			2			X							

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Nathan Fabrikar	Geosyntec	24 Jan 2019 1600	Received by:	TA PLS	1-30-19 1600
Relinquished by:	TA PLS	1-30-19 1845	Received by:		
Relinquished by:			Received in Laboratory by:	TA-PLS	1/30/19 1845

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Denan Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons					Total Number of containers	Special Instructions/Note:
DG-AG7S-0.5-1 (720-91089-1)	1/30/19	09:10 Pacific		Solid				X	X	X	X	X	X	X								1
DG-AG7S-3.5-4 (720-91089-2)	1/30/19	09:10 Pacific		Solid				X	X	X	X	X	X	X								
DG-AB9S-0.5-1 (720-91089-3)	1/30/19	10:20 Pacific		Solid				X	X	X	X	X	X	X								
DG-AB9S-3.5-4 (720-91089-4)	1/30/19	10:20 Pacific		Solid				X	X	X	X	X	X	X								
DG-AH9S-0.5-1 (720-91089-5)	1/30/19	10:40 Pacific		Solid				X	X	X	X	X	X	X								
DG-AH9S-3.5-4 (720-91089-6)	1/30/19	10:40 Pacific		Solid				X	X	X	X	X	X	X								
DG-AJ9S-0.5-1 (720-91089-7)	1/30/19	11:00 Pacific		Solid				X	X	X	X	X	X	X								
DG-AJ9S-3.5-4 (720-91089-8)	1/30/19	11:00 Pacific		Solid				X	X	X	X	X	X	X								
DG-AL5S-0.5-1 (720-91089-9)	1/30/19	11:30 Pacific		Solid				X	X	X	X	X	X	X								2

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/31/19 1259	Company TRPS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 31/19 1030	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks.

Ver: 09/20/2016

Page 100 of 102

02/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_F_FW_T 8260-(MOD)-VOCs+GRO	8260B/CA_LUFTMS/5035A_F_FW_T 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5035A_F_FW_T 8260-(MOD)-VOCs	8260B/CA_LUFTMS/5035A_F_FW_T 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:														
DG-AL5S-0.5-1 (720-91089-9MS)	1/30/19	11:30 Pacific	MS	Solid			X	X	X	X		X	X			1	
DG-AL5S-0.5-1 (720-91089-9MSD)	1/30/19	11:30 Pacific	MSD	Solid			X	X	X	X		X	X			1	
DG-AL5S-3.5-4 (720-91089-10)	1/30/19	11:30 Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AQ7S-0.5-1 (720-91089-11)	1/30/19	13:30 Pacific		Solid			X	X	X	X	X	X	X			1	
DUP-33 (720-91089-12)	1/30/19	Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AQ7S-3.5-4 (720-91089-13)	1/30/19	13:30 Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AQ11S-0.5-1 (720-91089-14)	1/30/19	14:00 Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AQ11S-3.5-4 (720-91089-15)	1/30/19	14:00 Pacific		Solid			X	X	X	X	X	X	X			1	
DG-AT9S-0.5-1 (720-91089-16)	1/30/19	14:30 Pacific		Solid			X	X	X	X	X	X	X			1	

Note Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
		1/31/19 1259	TAPLS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/1/19 1030	Company TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41010.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91089-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/1/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8270C_SIM/3546 (MOD) 8270-(MOD) PAH SIM	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_F_FW_7 8260(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons				Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
DG-AT9S-3.5-4 (720-91089-17)	1/30/19	14:30 Pacific		Solid			X	X	X	X	X	X	X							1	
DG-AV9S-0.5-1 (720-91089-18)	1/30/19	15:00 Pacific		Solid			X	X	X	X	X	X	X							1	
DG-AV9S-3.5-4 (720-91089-19)	1/30/19	15:00 Pacific		Solid			X	X	X	X	X	X	X							1	
DG-AV9S-7.5-8 (720-91089-20)	1/30/19	15:00 Pacific		Solid			X	X	X	X	X	X	X							1	
~~FB-01.30.19 (720-91089-21)~~	1/30/19	~~Pacific~~		~~Water~~										X	X					~~2~~	~~check for 2 phases~~
~~TB-01.30.19 (720-91089-22)~~	1/30/19	~~Pacific~~		~~Water~~										X	X					~~2~~	~~check for 2 phases~~

1/30/19

1/30/19

1/30/19

1/30/19

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 1/31/19 1259	Company: TAPL3	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/1/19 1630	Company TA PLV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

Ver: 09/20/2016

02/15/2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91104-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Jill Kellmann
Manager of Project Management
2/15/2019 5:08 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/15/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Method 8015B - DRO Sample Data 3

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TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a011.d				
Lims ID:	720-91104-F-1-A				
Client ID:	DG-AB5W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 15:10:58	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 16:36:02	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: barnettl		Date:	07-Feb-2019 16:36:02		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		562273	155.2	
$ 127 n-Octacosane	7.020	7.033	-0.013	520376	141.4	
A 135 C24-C36	7.468	(5.837-9.098)		395774	109.3	

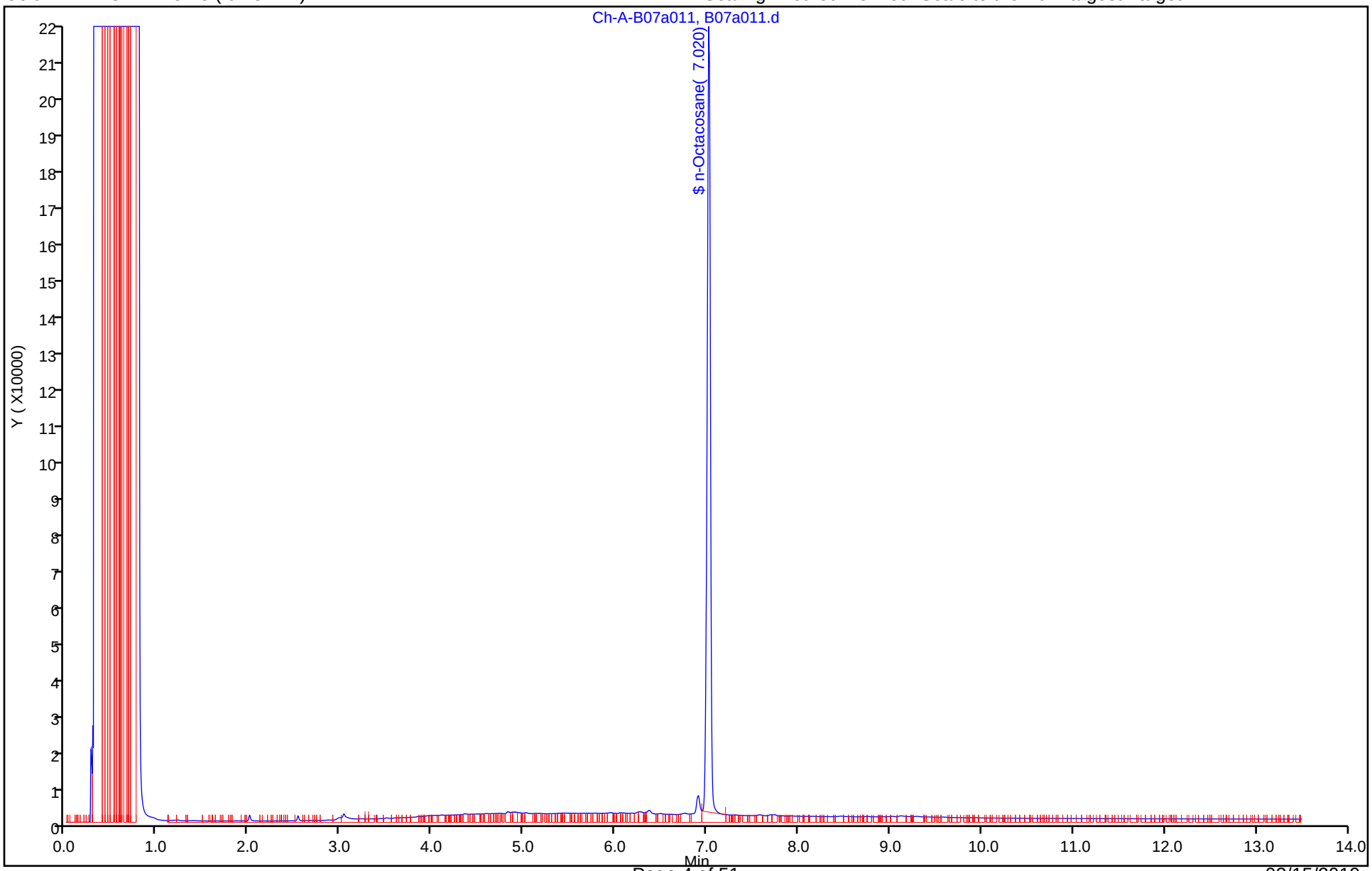
Report Date: 07-Feb-2019 16:36:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a011.d

Injection Date:	07-Feb-2019 15:10:58	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-F-1-A	Lab Sample ID:	440-91104-1	Worklist Smp#:	11
Client ID:	DG-AB5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a011.d				
Lims ID:	720-91104-F-1-A				
Client ID:	DG-AB5W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 15:10:58	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 16:36:02	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: barnettl Date: 07-Feb-2019 16:36:02

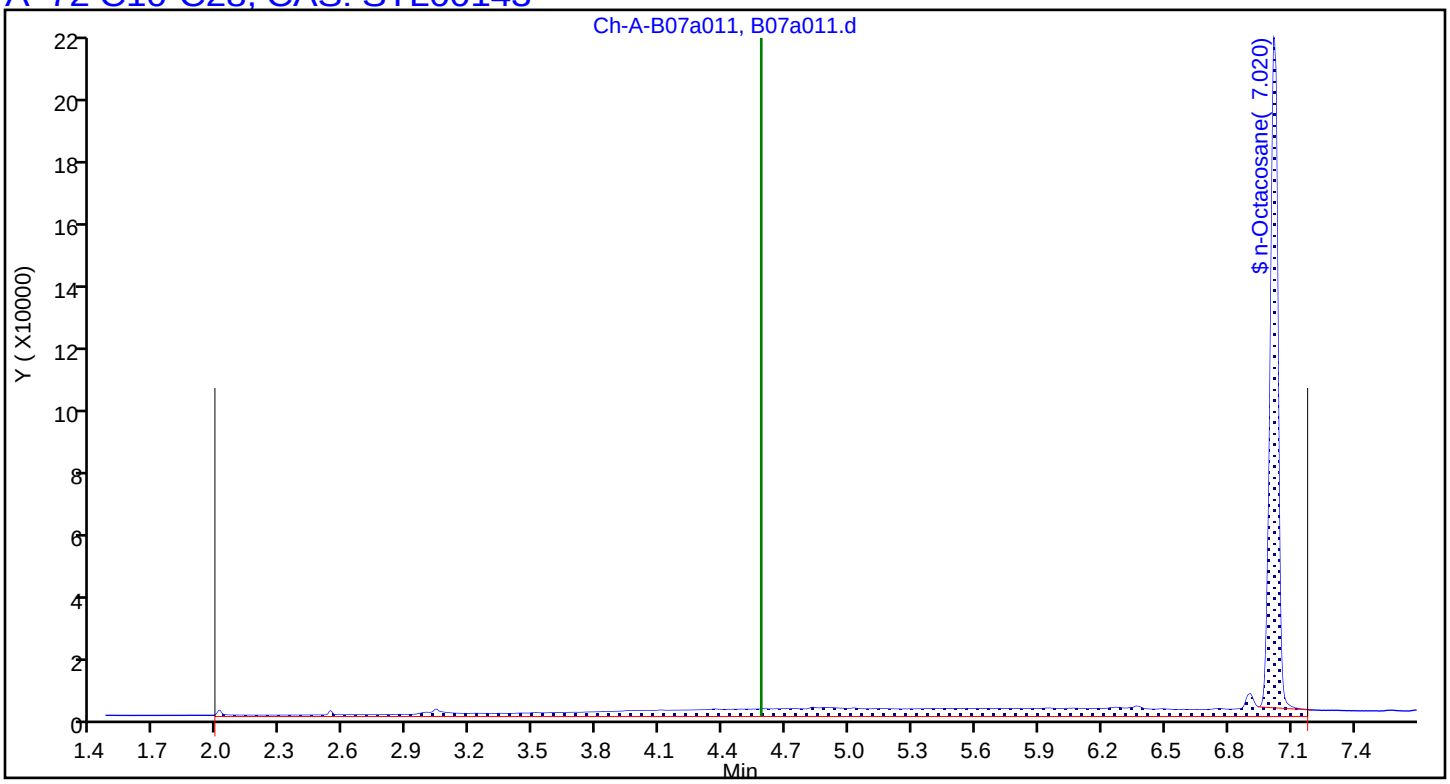
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	141.4	70.72
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 16:36:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a011.d				
Injection Date:	07-Feb-2019 15:10:58	Instrument ID:	GC70A		
Lims ID:	720-91104-F-1-A	Lab Sample ID:	440-91104-1		
Client ID:	DG-AB5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

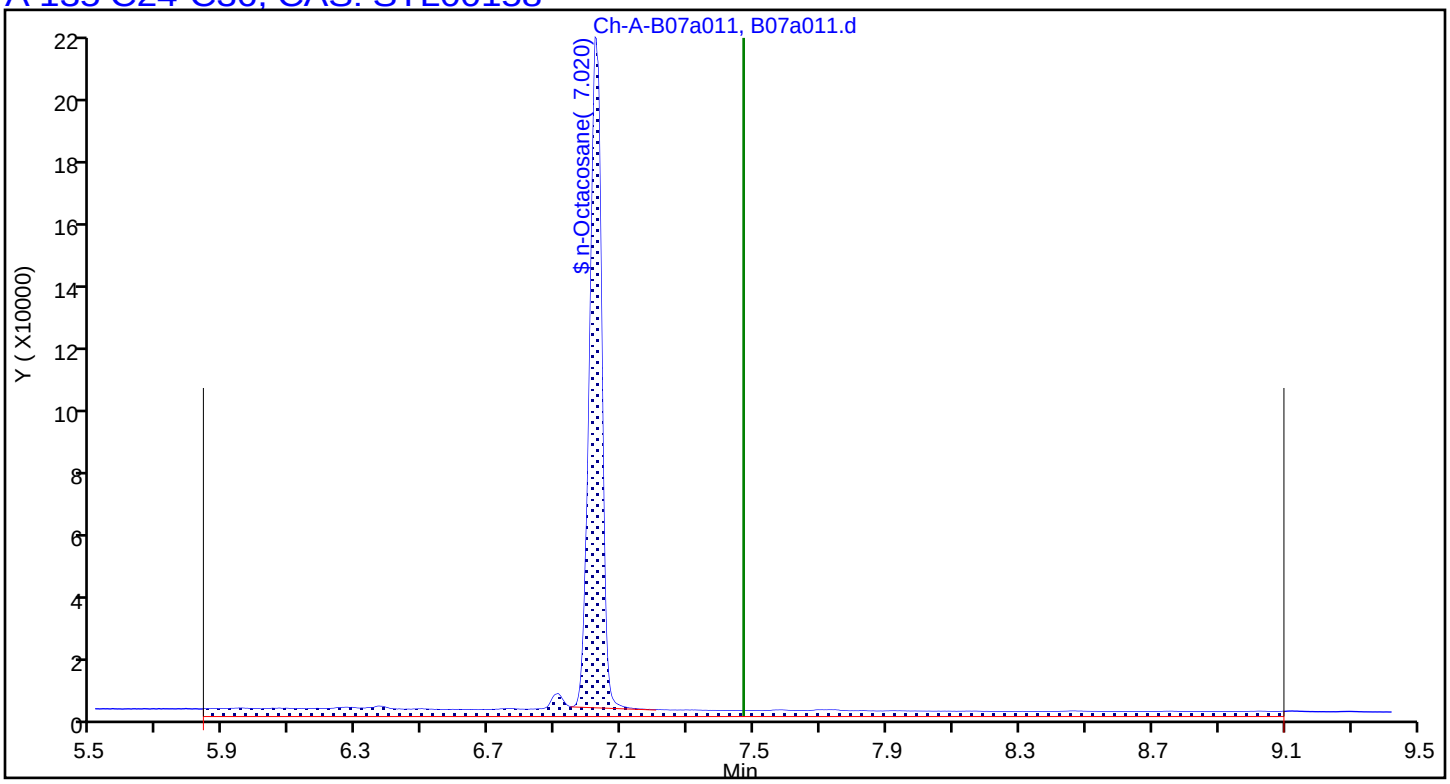


Report Date: 07-Feb-2019 16:36:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a011.d				
Injection Date:	07-Feb-2019 15:10:58	Instrument ID:	GC70A		
Lims ID:	720-91104-F-1-A	Lab Sample ID:	440-91104-1		
Client ID:	DG-AB5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a012.d				
Lims ID:	720-91104-D-2-A				
Client ID:	DG-AG7W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 15:32:15	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 16:36:02	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: barnettl		Date:	07-Feb-2019 15:54:58		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		659762	182.1	
$ 127 n-Octacosane	7.022	7.033	-0.011	500423	136.0	
A 135 C24-C36	7.468	(5.837-9.098)		458792	126.7	

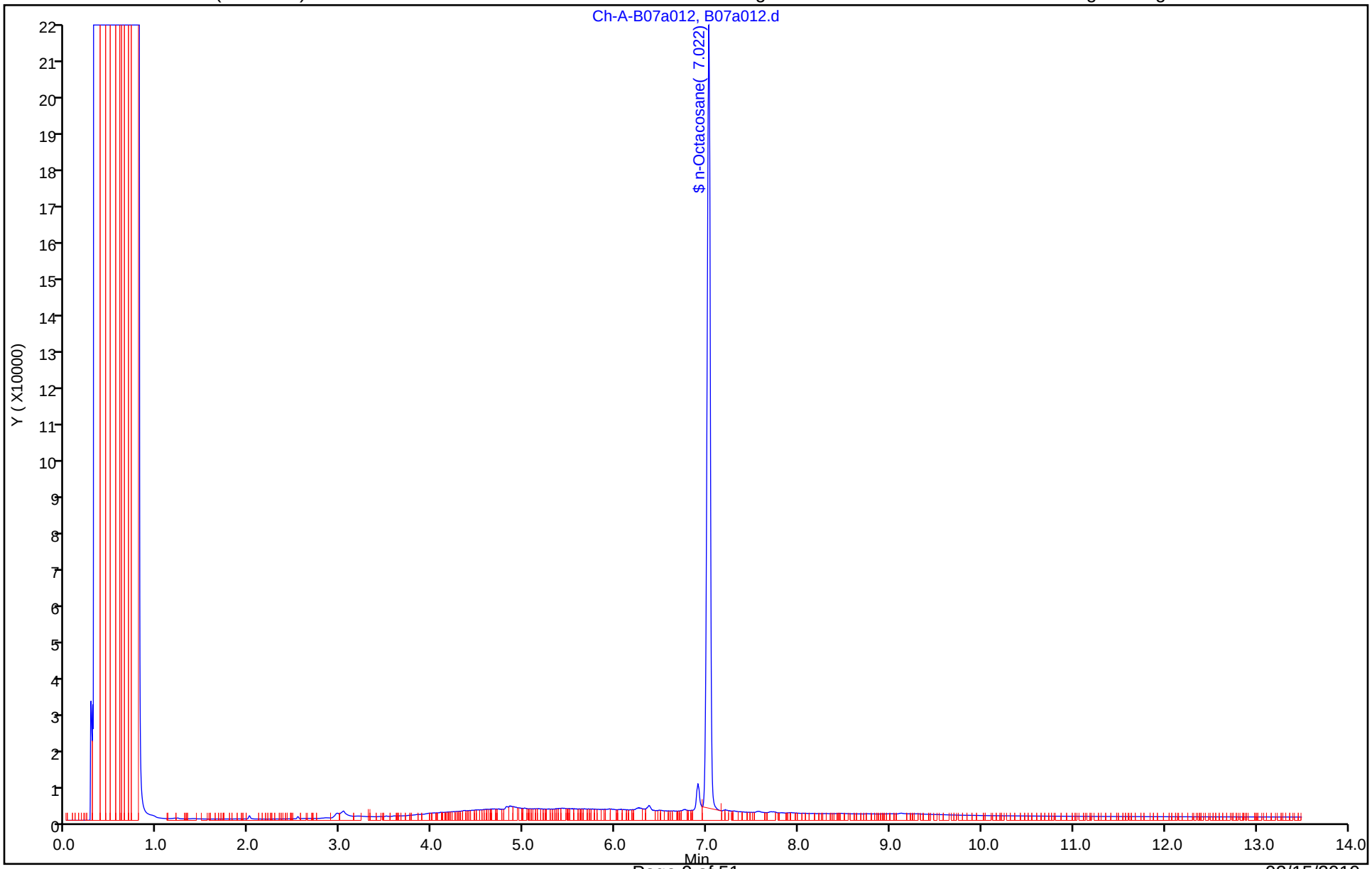
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a012.d

Injection Date:	07-Feb-2019 15:32:15	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-D-2-A	Lab Sample ID:	440-91104-2	Worklist Smp#:	12
Client ID:	DG-AG7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a012.d				
Lims ID:	720-91104-D-2-A				
Client ID:	DG-AG7W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 15:32:15	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 16:36:02	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: barnettl Date: 07-Feb-2019 15:54:58

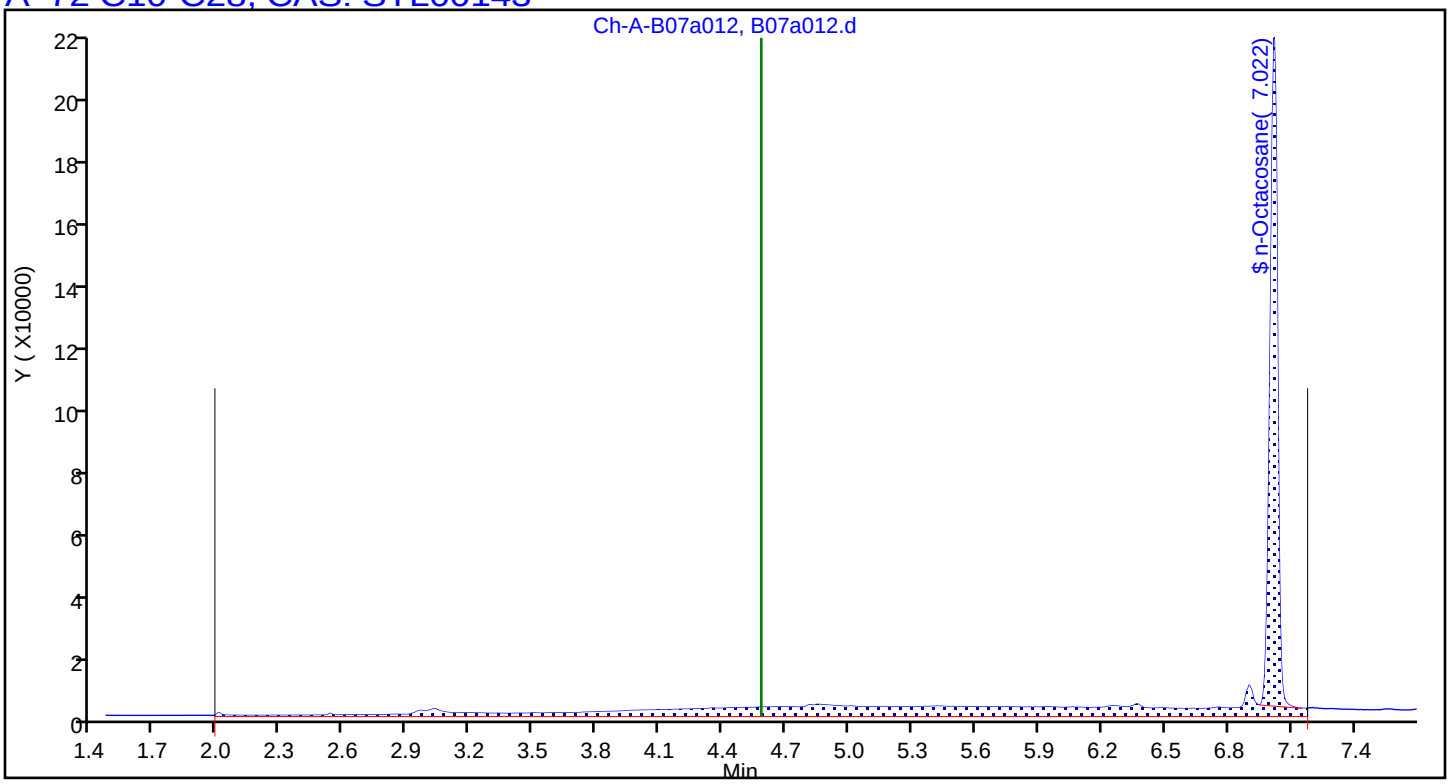
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	136.0	68.01
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 16:36:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a012.d				
Injection Date:	07-Feb-2019 15:32:15	Instrument ID:	GC70A		
Lims ID:	720-91104-D-2-A	Lab Sample ID:	440-91104-2		
Client ID:	DG-AG7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

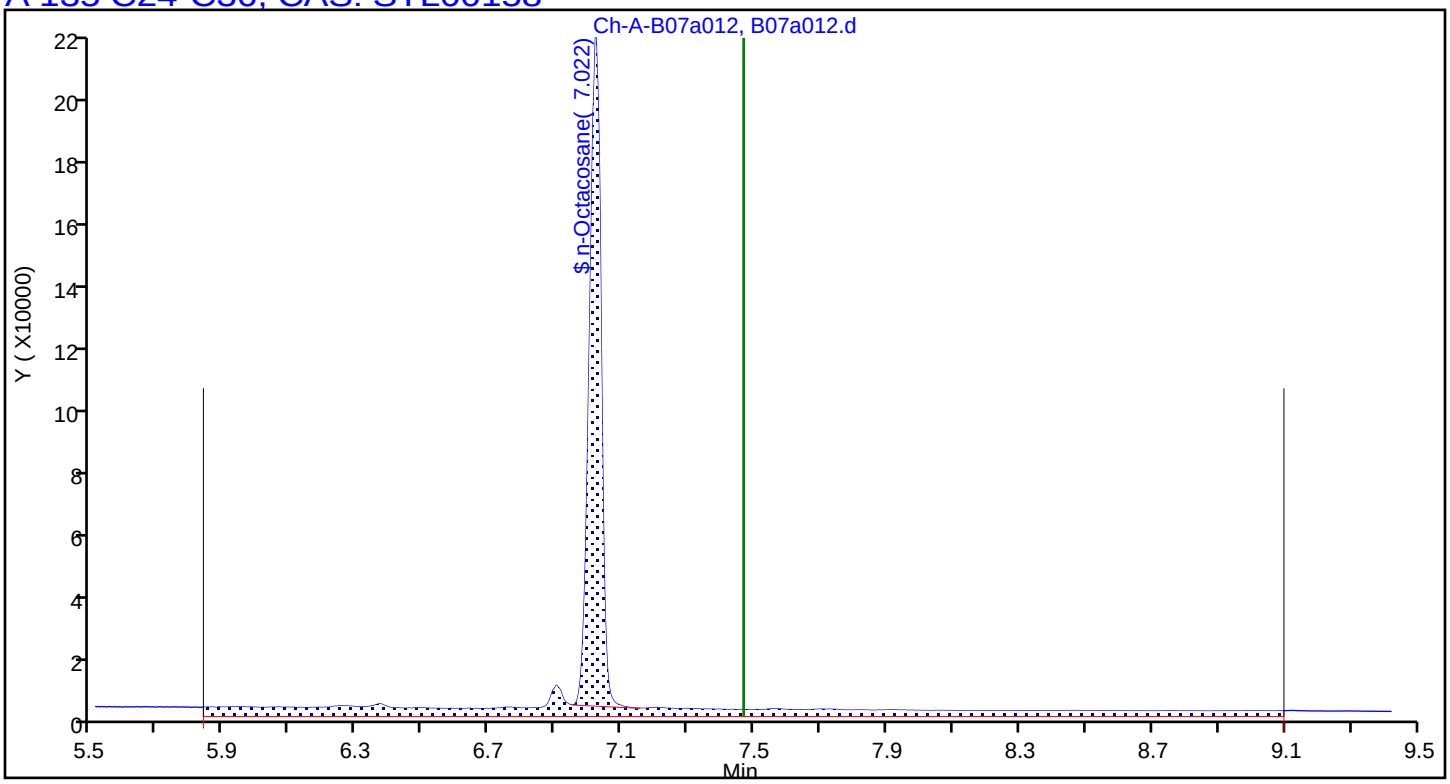


Report Date: 07-Feb-2019 16:36:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a012.d				
Injection Date:	07-Feb-2019 15:32:15	Instrument ID:	GC70A		
Lims ID:	720-91104-D-2-A	Lab Sample ID:	440-91104-2		
Client ID:	DG-AG7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a013.d				
Lims ID:	720-91104-G-3-A				
Client ID:	DG-AL5W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 15:53:38	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 16:36:55	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: barnettl		Date:	07-Feb-2019 16:36:55		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		1667925	460.5	
$ 127 n-Octacosane	7.020	7.033	-0.013	325929	88.6	
A 135 C24-C36	7.468	(5.837-9.098)		1243630	343.3	

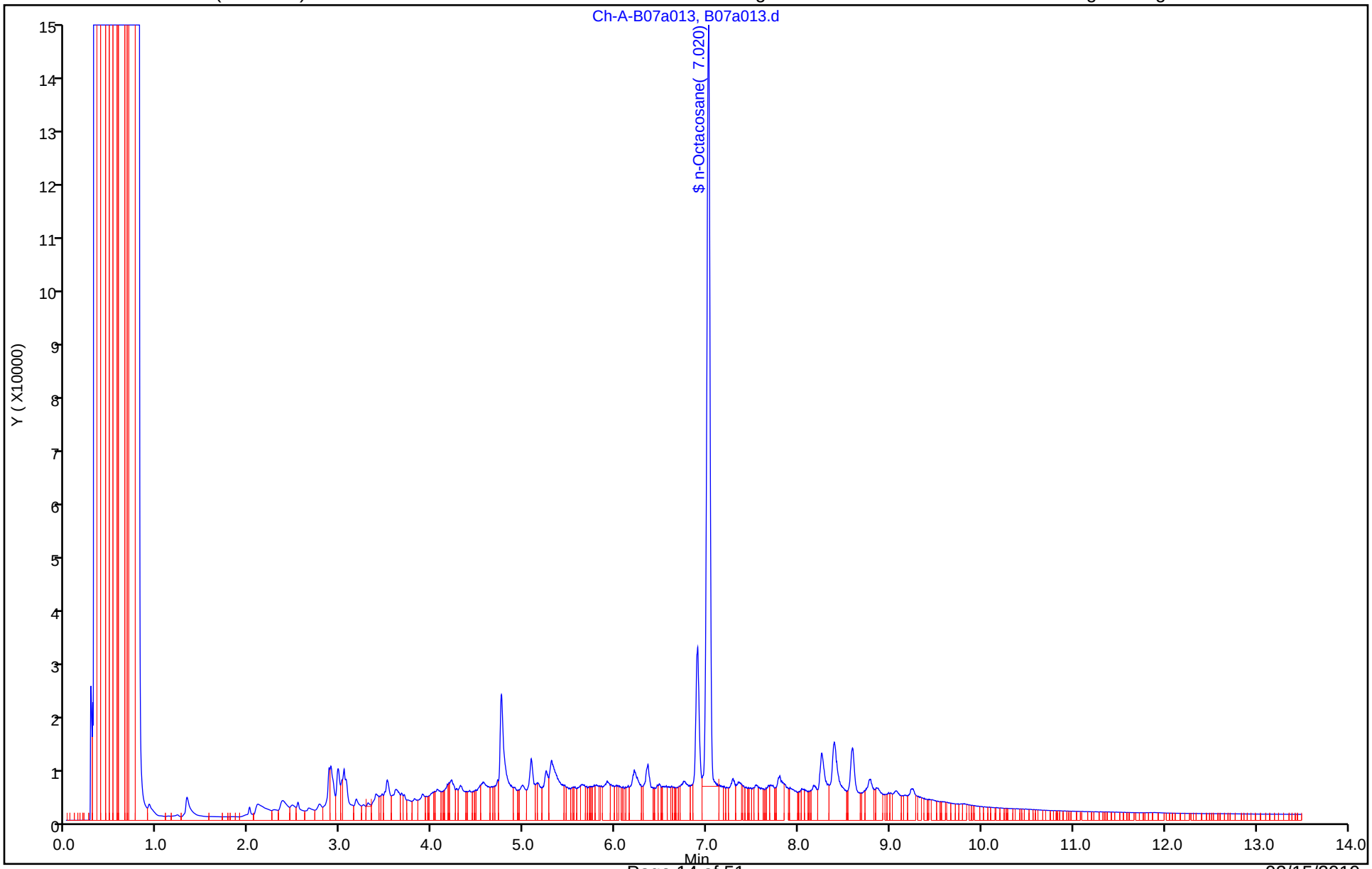
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TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a013.d

Injection Date:	07-Feb-2019 15:53:38	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-G-3-A	Lab Sample ID:	440-91104-3	Worklist Smp#:	13
Client ID:	DG-AL5W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a013.d				
Lims ID:	720-91104-G-3-A				
Client ID:	DG-AL5W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 15:53:38	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 16:36:55	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: barnettl Date: 07-Feb-2019 16:36:55

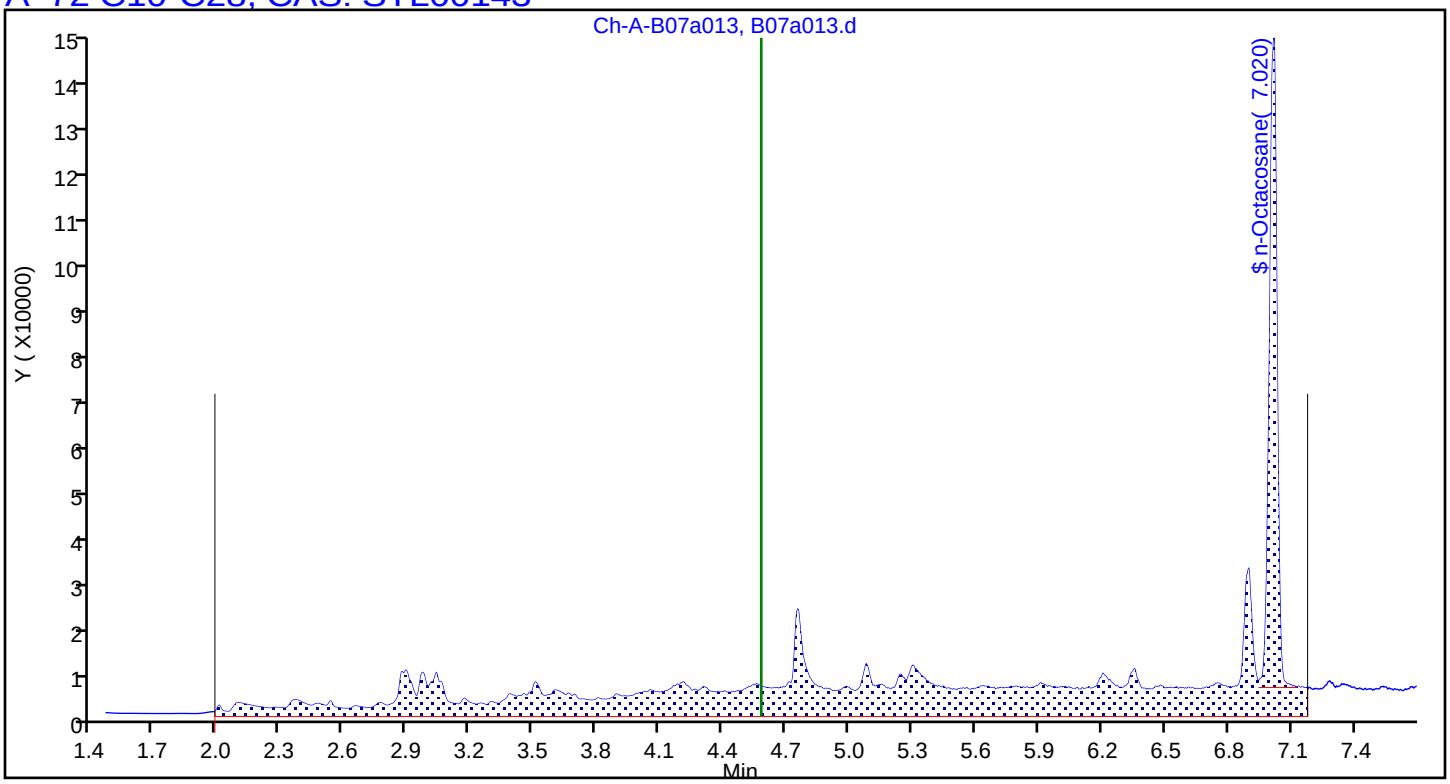
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	88.6	44.30
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 16:36:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a013.d				
Injection Date:	07-Feb-2019 15:53:38	Instrument ID:	GC70A		
Lims ID:	720-91104-G-3-A	Lab Sample ID:	440-91104-3		
Client ID:	DG-AL5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

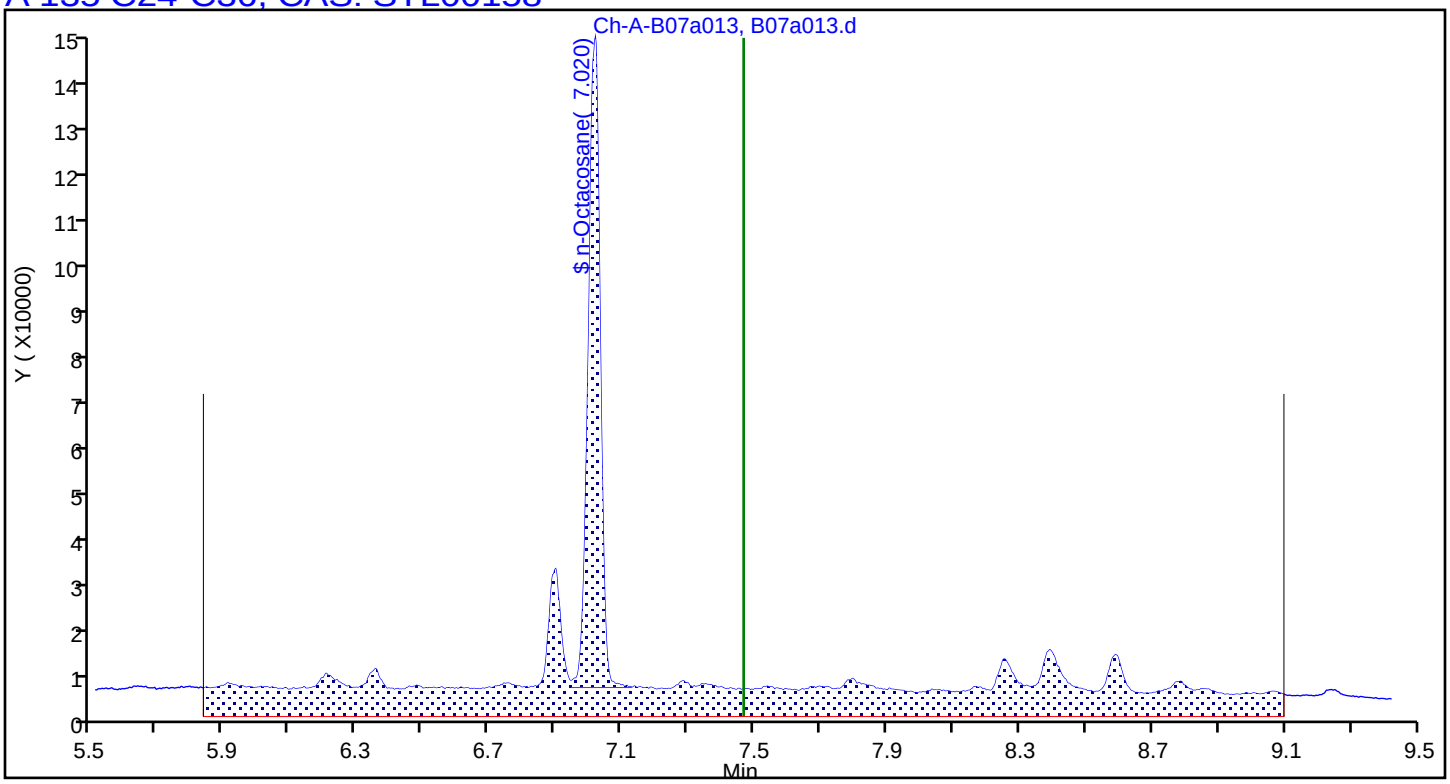


Report Date: 07-Feb-2019 16:36:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a013.d				
Injection Date:	07-Feb-2019 15:53:38	Instrument ID:	GC70A		
Lims ID:	720-91104-G-3-A	Lab Sample ID:	440-91104-3		
Client ID:	DG-AL5W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a014.d				
Lims ID:	720-91104-G-4-A				
Client ID:	DG-AQ7W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 16:14:47	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 16:38:36	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: barnettl		Date:	07-Feb-2019 16:38:36		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		1006146	277.8	
$ 127 n-Octacosane	7.023	7.033	-0.010	511826	139.1	
A 135 C24-C36	7.468	(5.837-9.098)		579562	160.0	

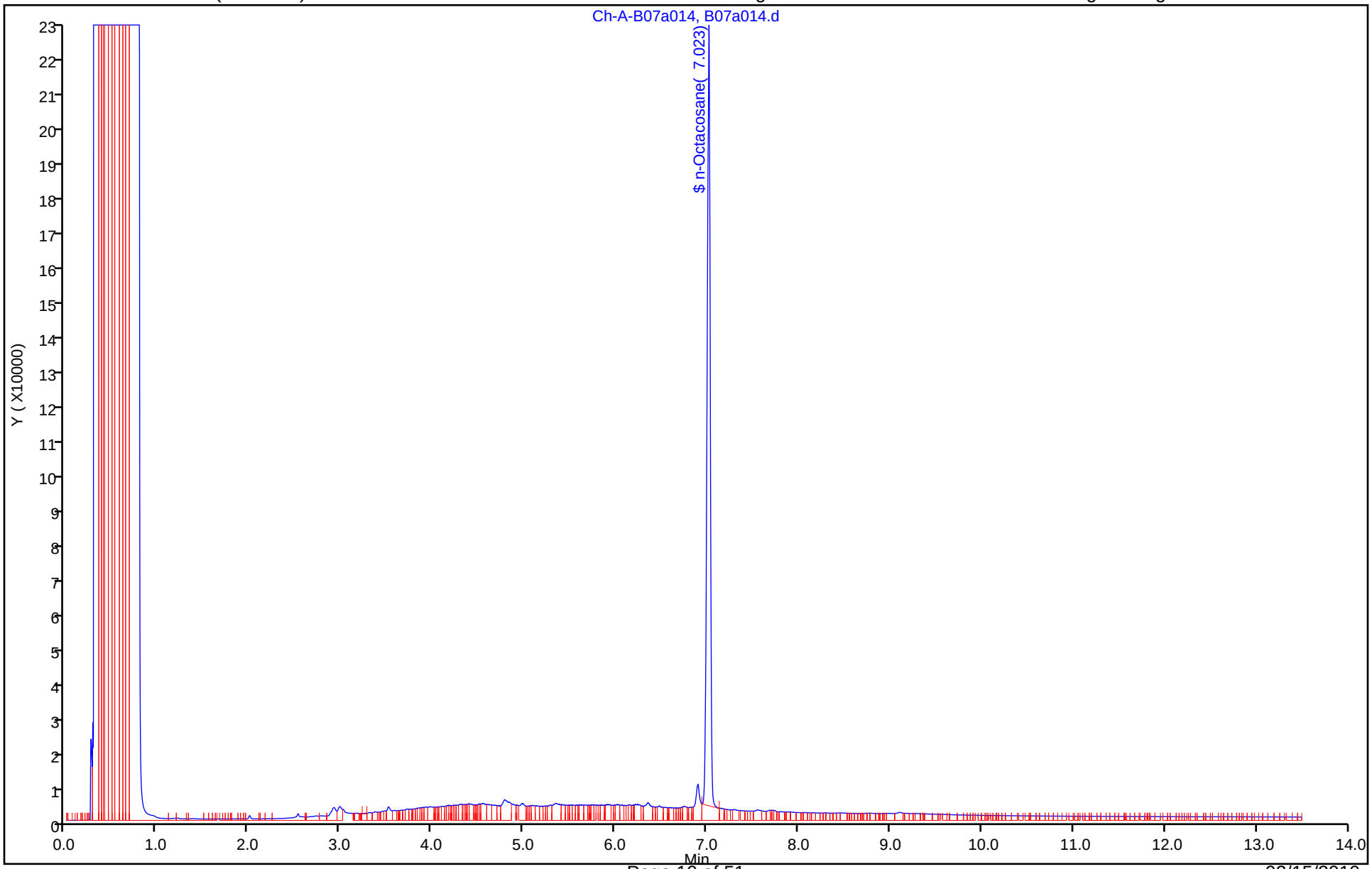
Report Date: 07-Feb-2019 16:38:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a014.d

Injection Date:	07-Feb-2019 16:14:47	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-G-4-A	Lab Sample ID:	440-91104-4	Worklist Smp#:	14
Client ID:	DG-AQ7W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a014.d				
Lims ID:	720-91104-G-4-A				
Client ID:	DG-AQ7W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 16:14:47	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 16:38:36	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: barnettl Date: 07-Feb-2019 16:38:36

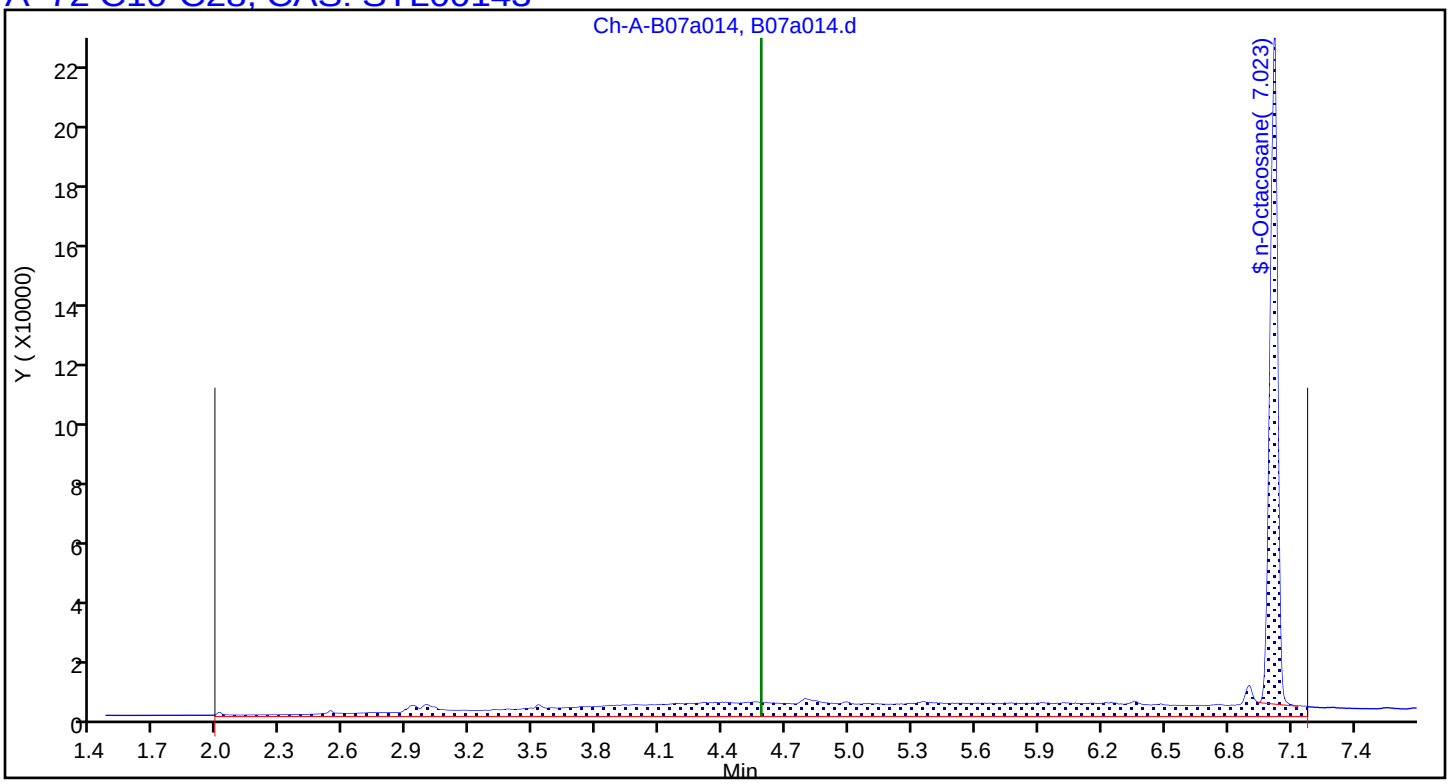
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	139.1	69.56
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 16:38:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a014.d				
Injection Date:	07-Feb-2019 16:14:47	Instrument ID:	GC70A		
Lims ID:	720-91104-G-4-A	Lab Sample ID:	440-91104-4		
Client ID:	DG-AQ7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

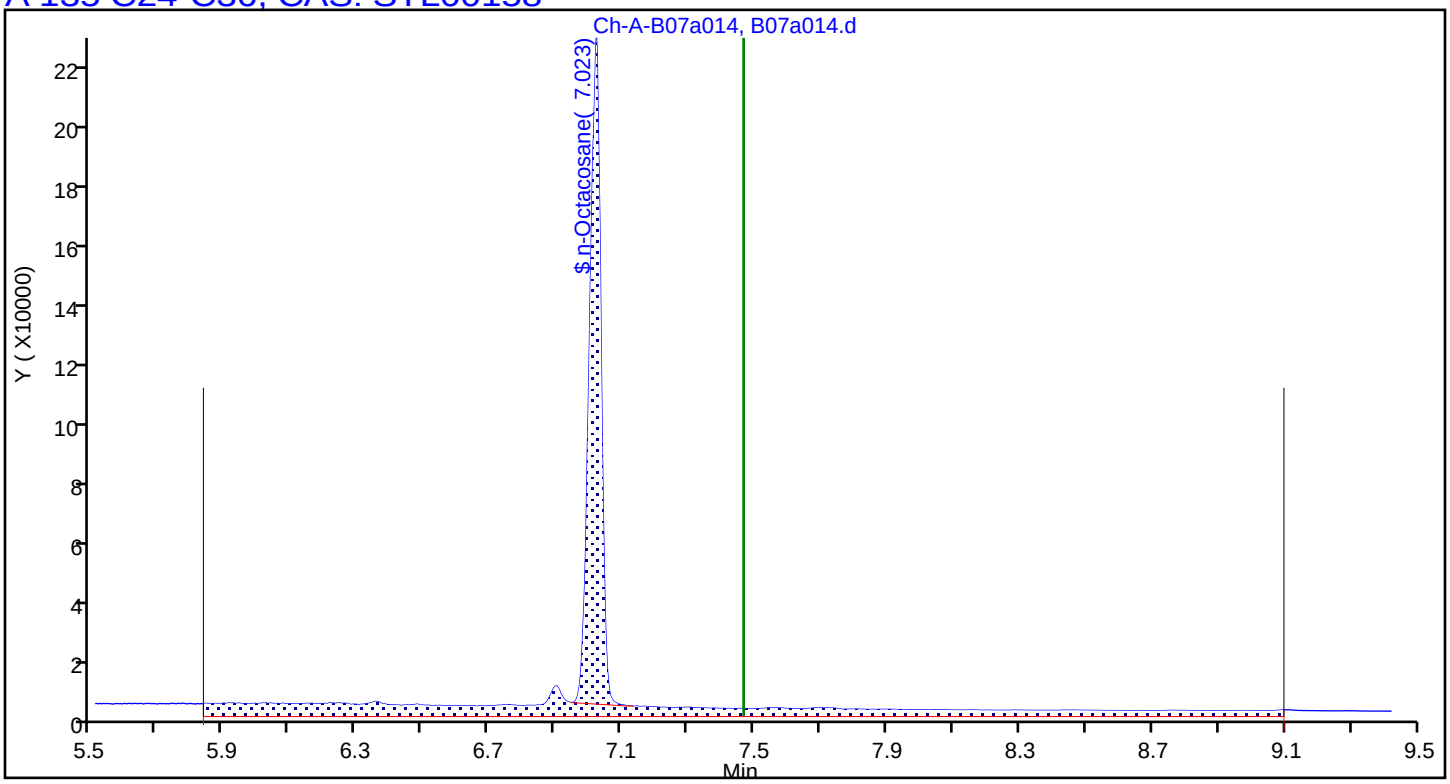


Report Date: 07-Feb-2019 16:38:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a014.d				
Injection Date:	07-Feb-2019 16:14:47	Instrument ID:	GC70A		
Lims ID:	720-91104-G-4-A	Lab Sample ID:	440-91104-4		
Client ID:	DG-AQ7W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a015.d				
Lims ID:	720-91104-G-5-A				
Client ID:	DG-AW3W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 16:35:59	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 17:02:31	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: barnettl		Date:	07-Feb-2019 17:02:31		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		1141375	315.1	
$ 127 n-Octacosane	7.025	7.033	-0.008	544072	147.9	
A 135 C24-C36	7.468	(5.837-9.098)		762897	210.6	

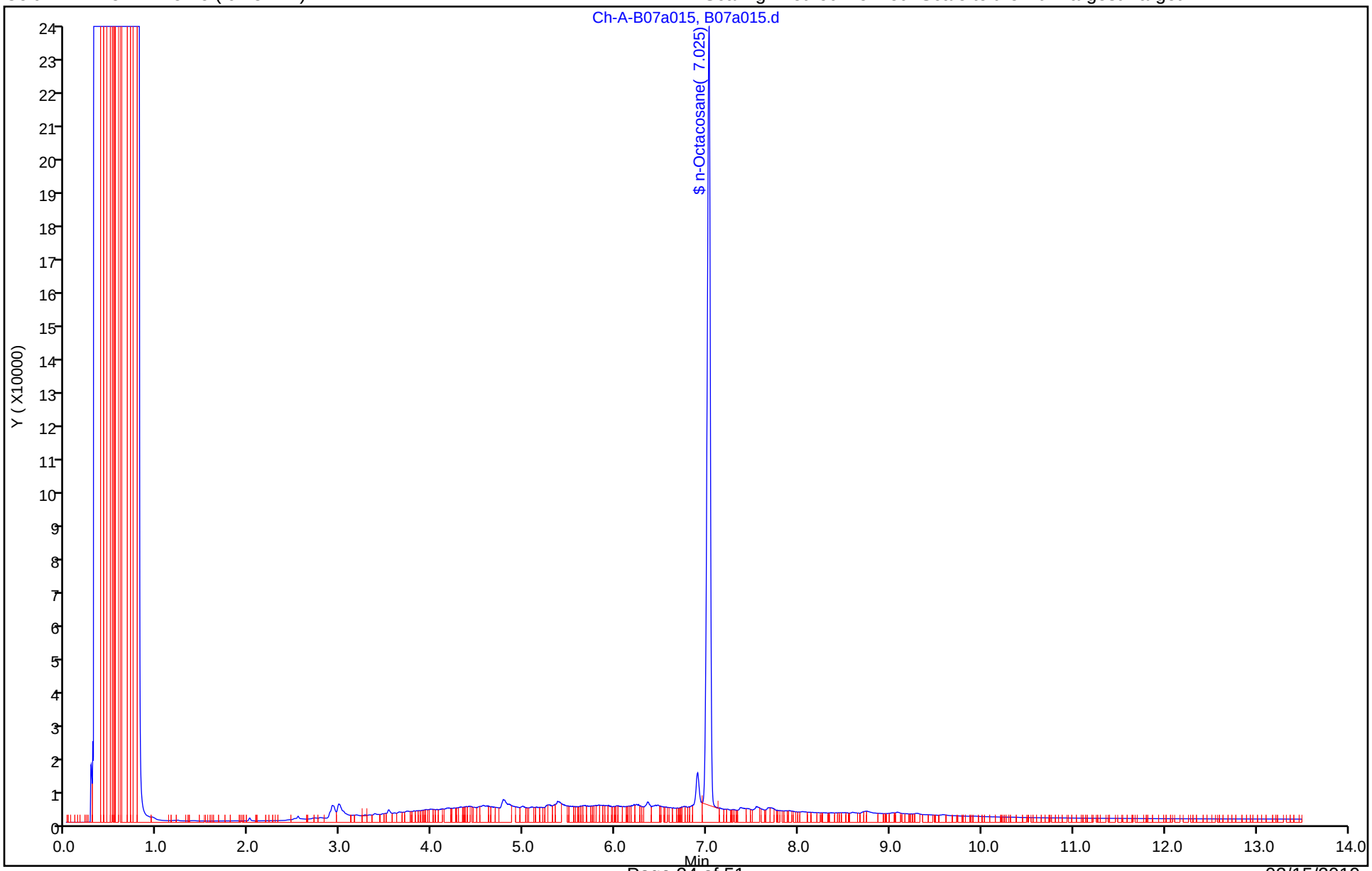
Report Date: 07-Feb-2019 17:02:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a015.d

Injection Date:	07-Feb-2019 16:35:59	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-G-5-A	Lab Sample ID:	440-91104-5	Worklist Smp#:	15
Client ID:	DG-AW3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a015.d				
Lims ID:	720-91104-G-5-A				
Client ID:	DG-AW3W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 16:35:59	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 17:02:31	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: barnettl Date: 07-Feb-2019 17:02:31

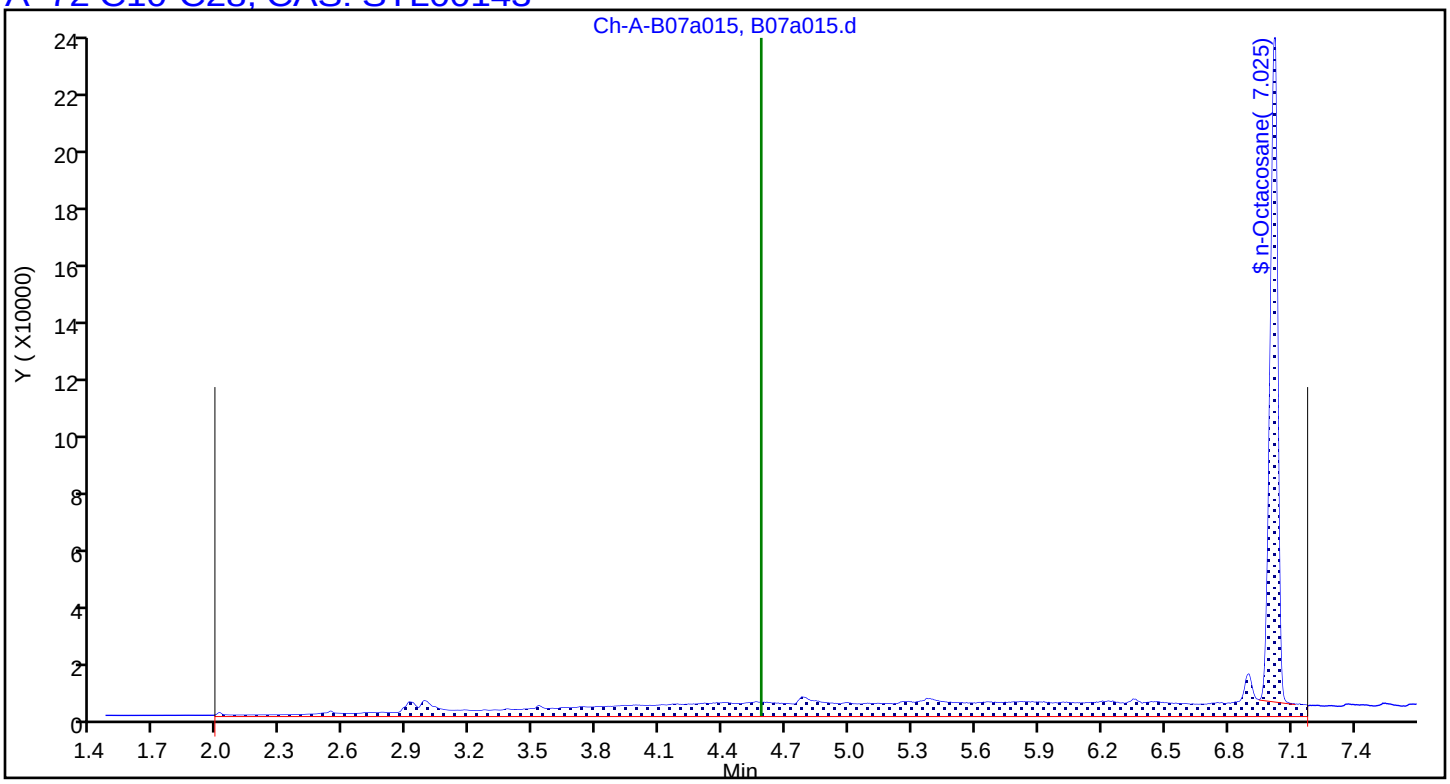
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	147.9	73.95
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 17:02:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a015.d				
Injection Date:	07-Feb-2019 16:35:59	Instrument ID:	GC70A		
Lims ID:	720-91104-G-5-A	Lab Sample ID:	440-91104-5		
Client ID:	DG-AW3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

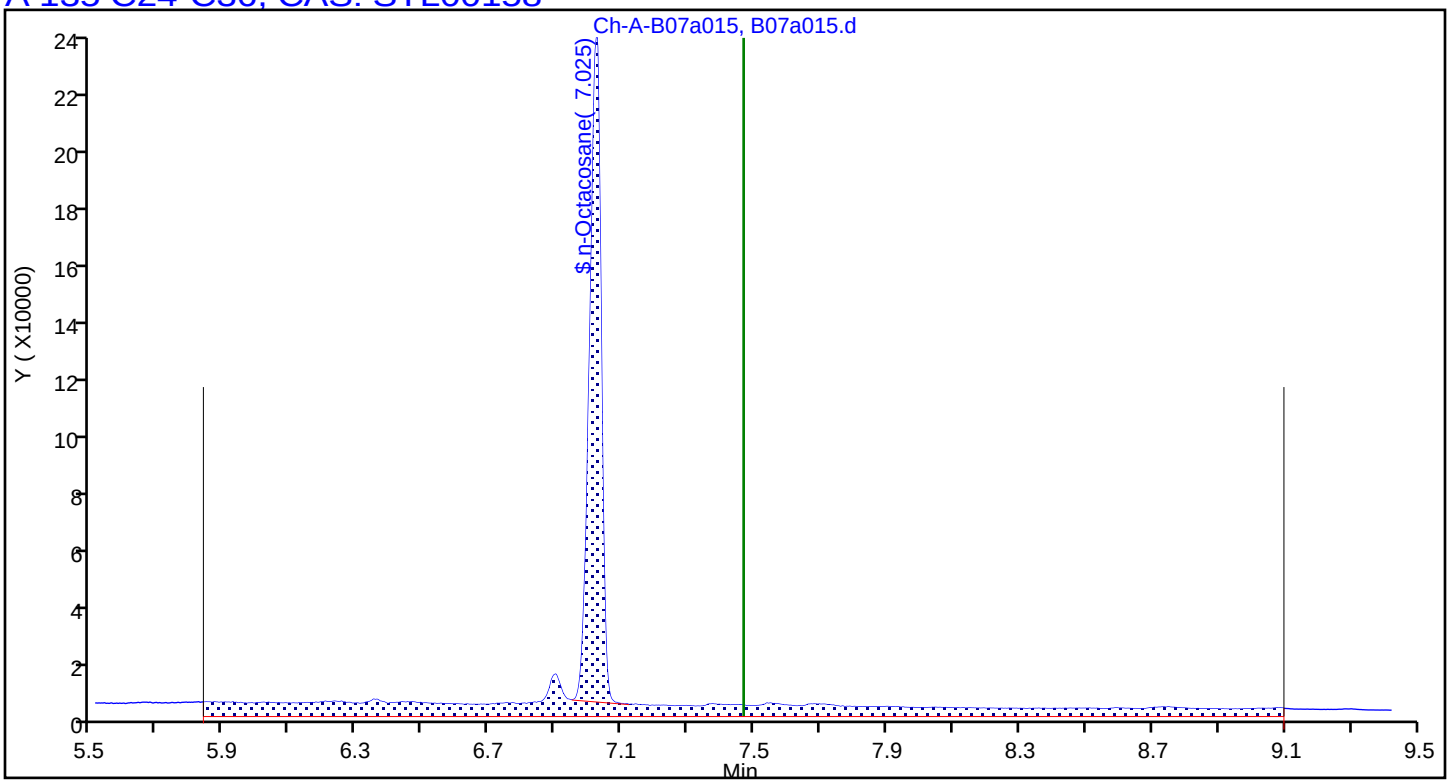


Report Date: 07-Feb-2019 17:02:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a015.d				
Injection Date:	07-Feb-2019 16:35:59	Instrument ID:	GC70A		
Lims ID:	720-91104-G-5-A	Lab Sample ID:	440-91104-5		
Client ID:	DG-AW3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a016.d				
Lims ID:	720-91104-E-6-A				
Client ID:	DG-AQ11W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 16:57:05	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 17:34:50	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: barnettl		Date:	07-Feb-2019 17:34:50		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		2175294	600.6	
$ 127 n-Octacosane	7.022	7.033	-0.011	468771	127.4	
A 135 C24-C36	7.468	(5.837-9.098)		1736778	479.5	

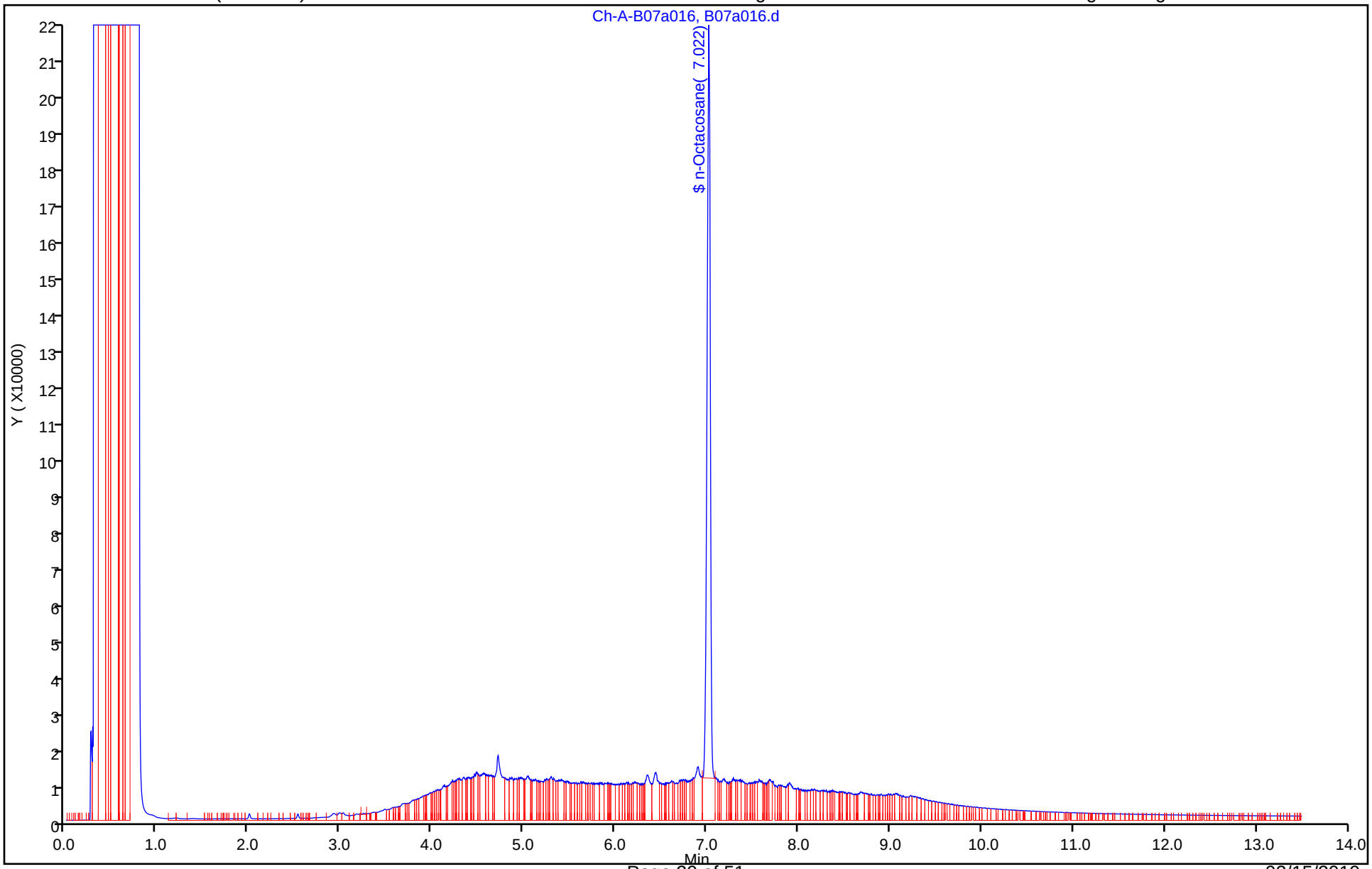
Report Date: 07-Feb-2019 17:34:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a016.d

Injection Date:	07-Feb-2019 16:57:05	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-E-6-A	Lab Sample ID:	440-91104-6	Worklist Smp#:	16
Client ID:	DG-AQ11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a016.d				
Lims ID:	720-91104-E-6-A				
Client ID:	DG-AQ11W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 16:57:05	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 17:34:50	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: barnettl Date: 07-Feb-2019 17:34:50

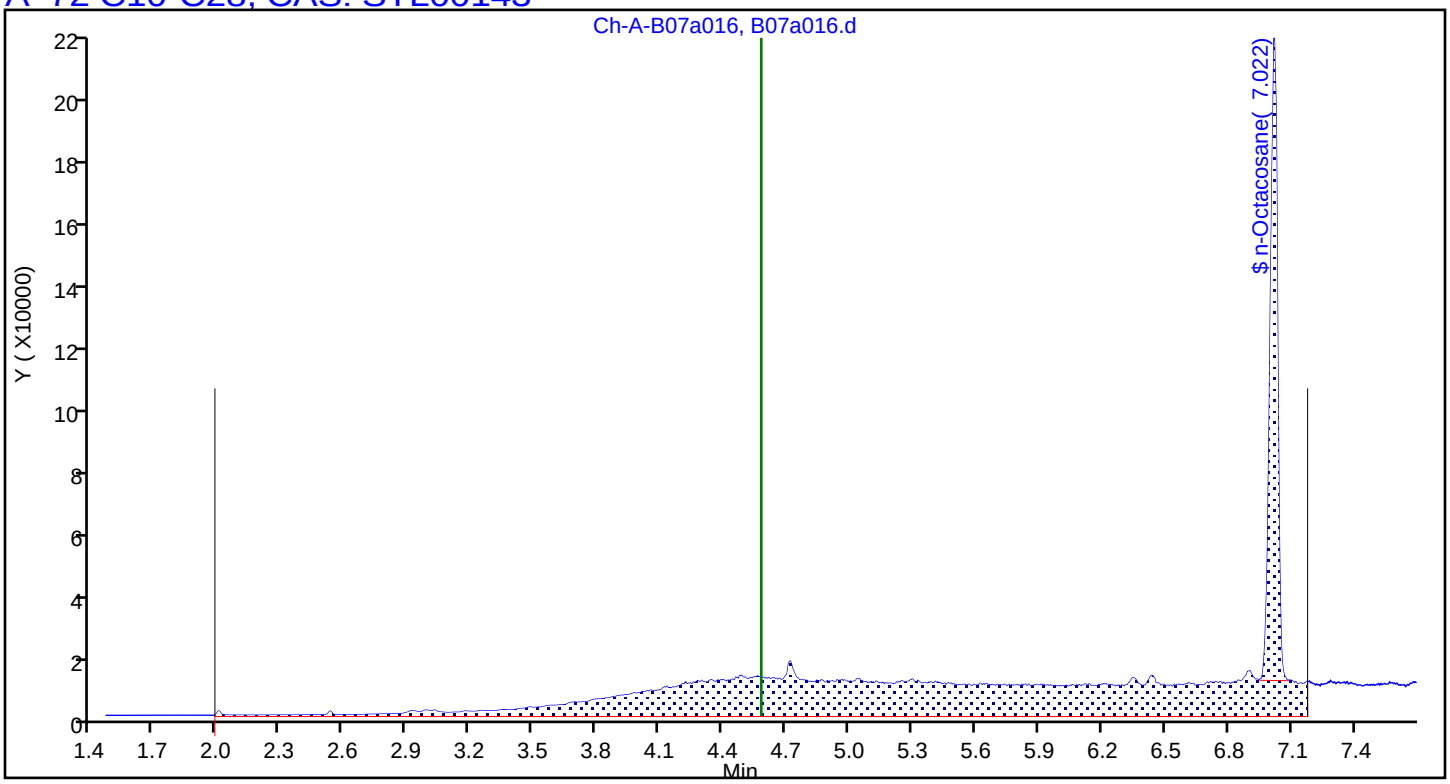
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	127.4	63.71
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 17:34:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a016.d				
Injection Date:	07-Feb-2019 16:57:05	Instrument ID:	GC70A		
Lims ID:	720-91104-E-6-A	Lab Sample ID:	440-91104-6		
Client ID:	DG-AQ11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

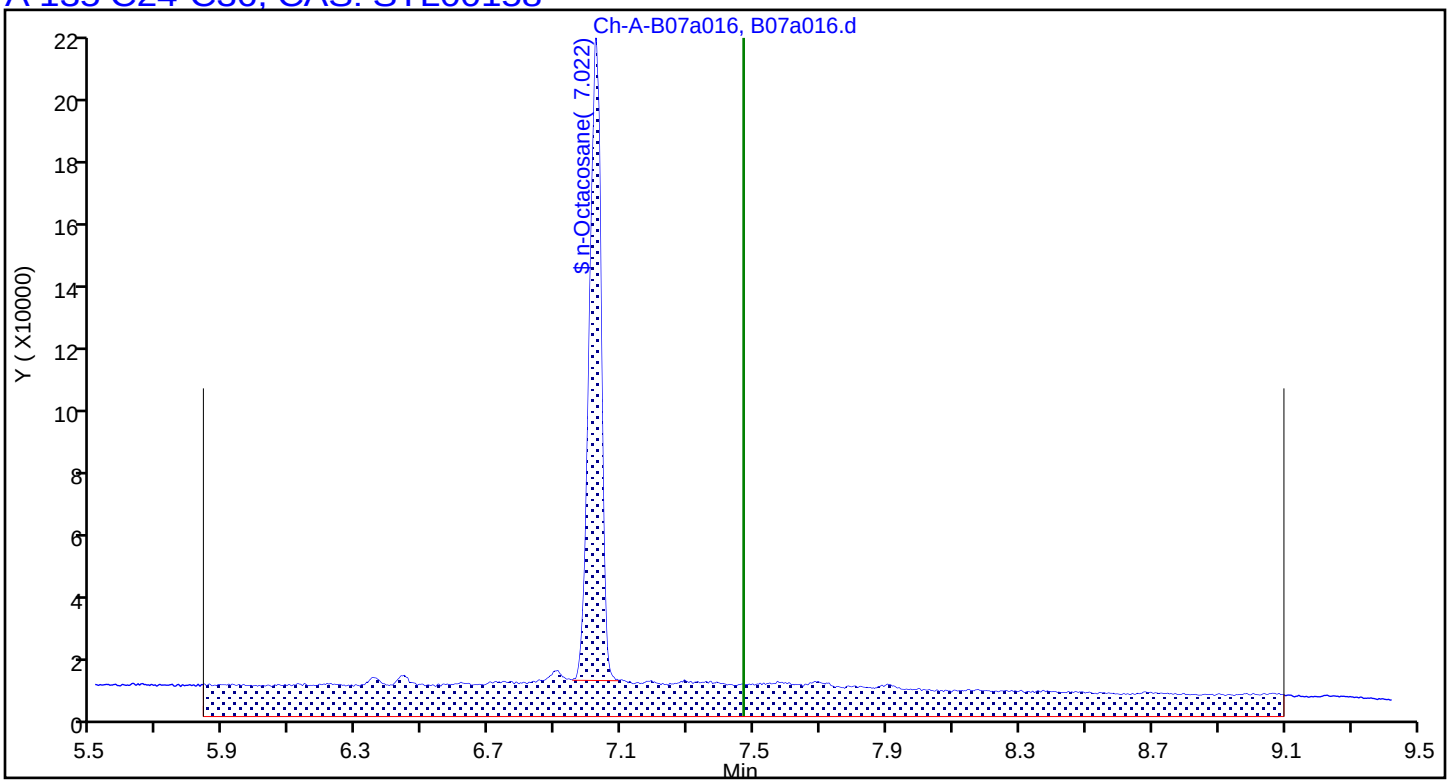


Report Date: 07-Feb-2019 17:34:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a016.d				
Injection Date:	07-Feb-2019 16:57:05	Instrument ID:	GC70A		
Lims ID:	720-91104-E-6-A	Lab Sample ID:	440-91104-6		
Client ID:	DG-AQ11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a017.d				
Lims ID:	720-91104-E-7-A				
Client ID:	DG-AS11W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 17:18:06	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 17:35:23	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: barnettl		Date:	07-Feb-2019 17:35:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		937681	258.9	
$ 127 n-Octacosane	7.023	7.033	-0.010	565902	153.8	
A 135 C24-C36	7.468	(5.837-9.098)		1090361	301.0	

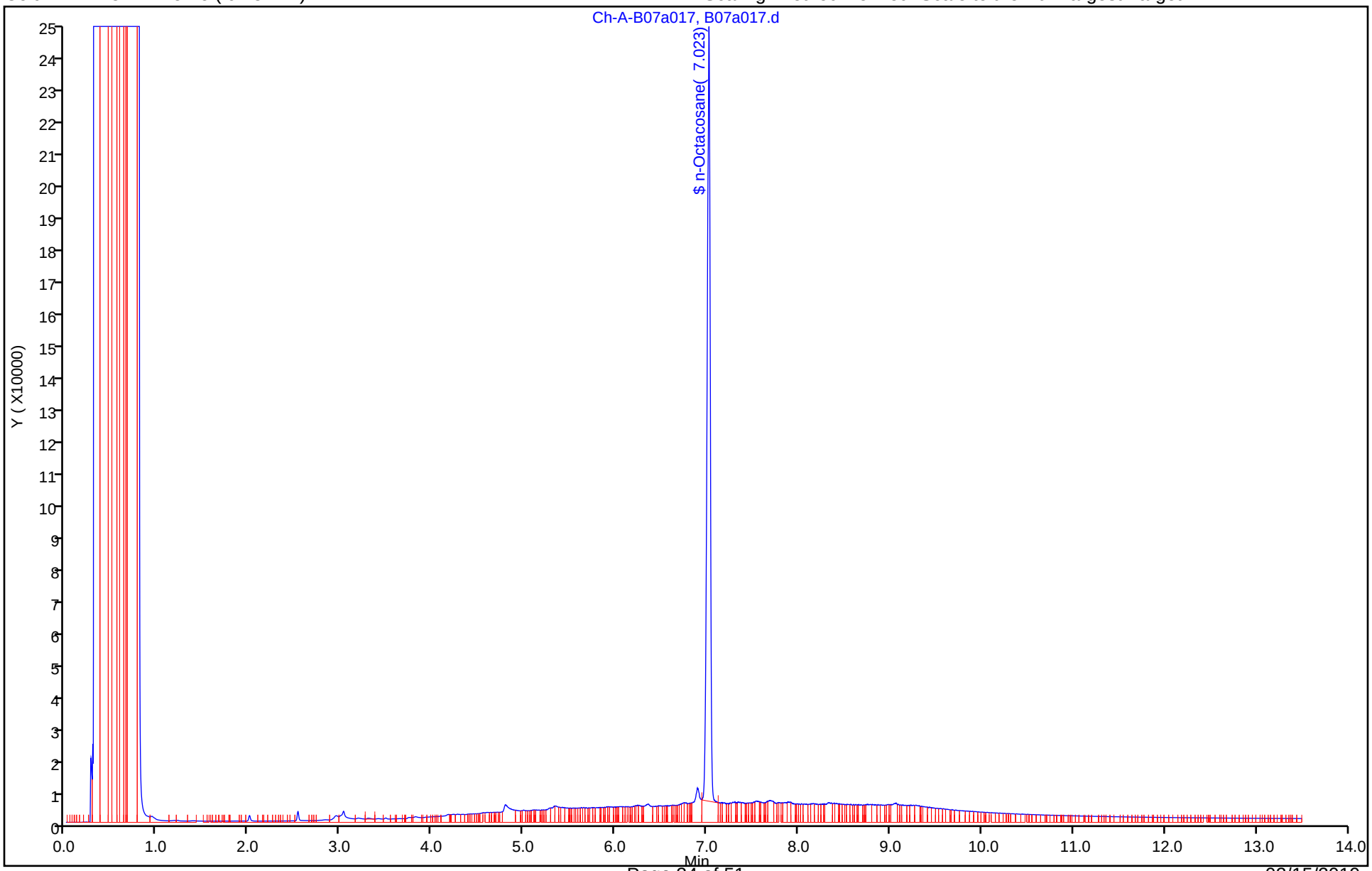
Report Date: 07-Feb-2019 17:35:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a017.d

Injection Date:	07-Feb-2019 17:18:06	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-E-7-A	Lab Sample ID:	440-91104-7	Worklist Smp#:	17
Client ID:	DG-AS11W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a017.d				
Lims ID:	720-91104-E-7-A				
Client ID:	DG-AS11W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 17:18:06	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 17:35:23	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: barnettl Date: 07-Feb-2019 17:35:23

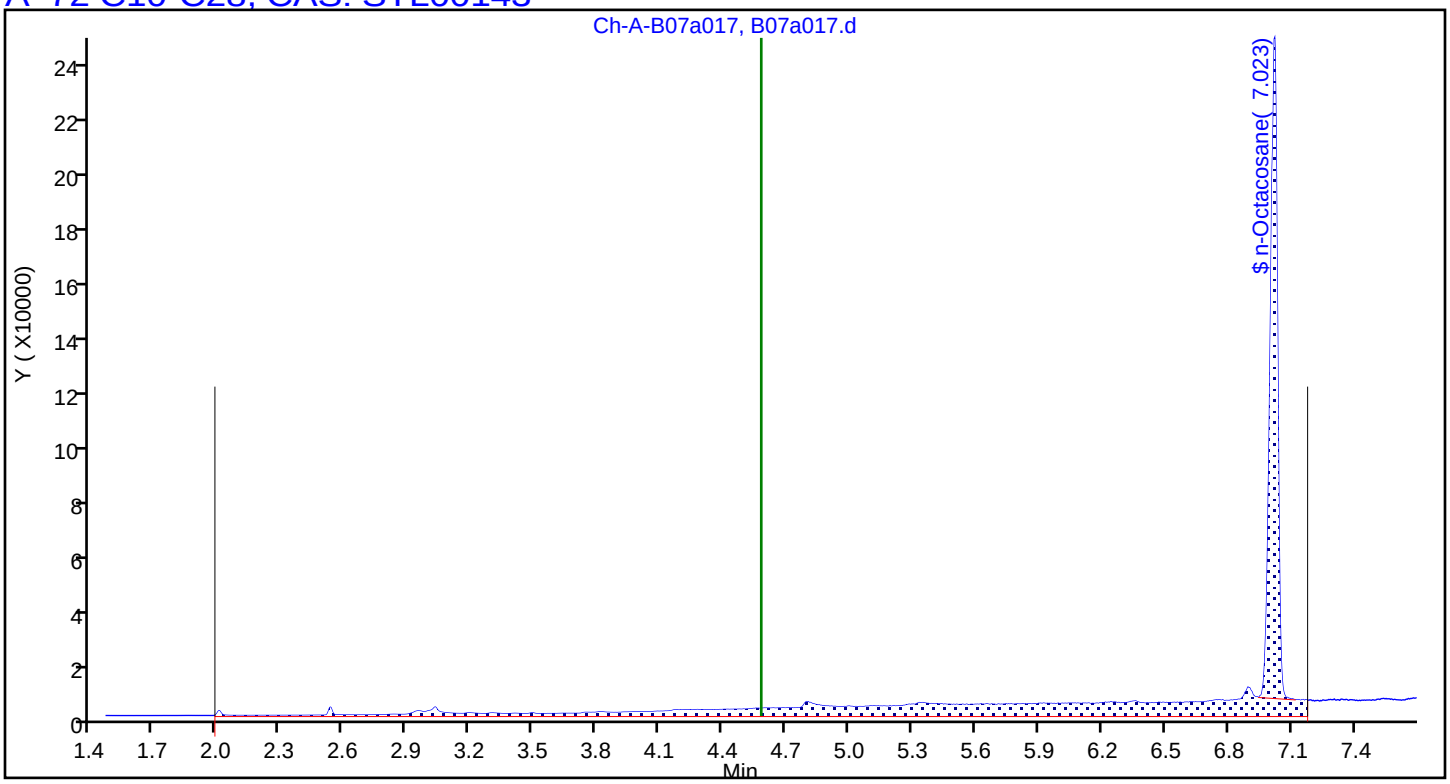
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	153.8	76.91
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 17:35:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a017.d				
Injection Date:	07-Feb-2019 17:18:06	Instrument ID:	GC70A		
Lims ID:	720-91104-E-7-A	Lab Sample ID:	440-91104-7		
Client ID:	DG-AS11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

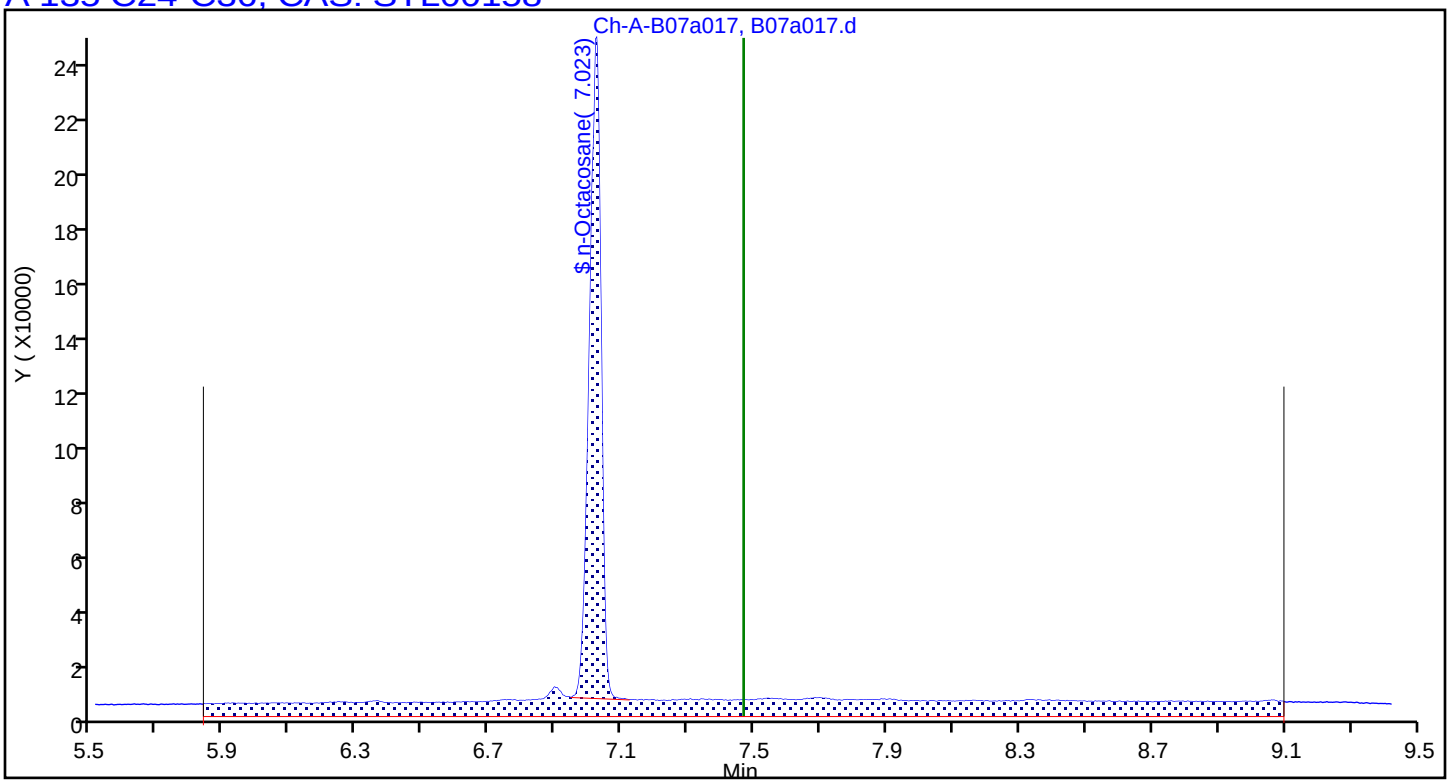


Report Date: 07-Feb-2019 17:35:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a017.d				
Injection Date:	07-Feb-2019 17:18:06	Instrument ID:	GC70A		
Lims ID:	720-91104-E-7-A	Lab Sample ID:	440-91104-7		
Client ID:	DG-AS11W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a019.d				
Lims ID:	720-91104-D-8-A				
Client ID:	DG-AT9W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 18:01:06	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 19:53:06	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	07-Feb-2019 19:53:06		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		621300	171.5	
$ 127 n-Octacosane	7.027	7.033	-0.006	492182	133.8	
A 135 C24-C36	7.468	(5.837-9.098)		476958	131.7	

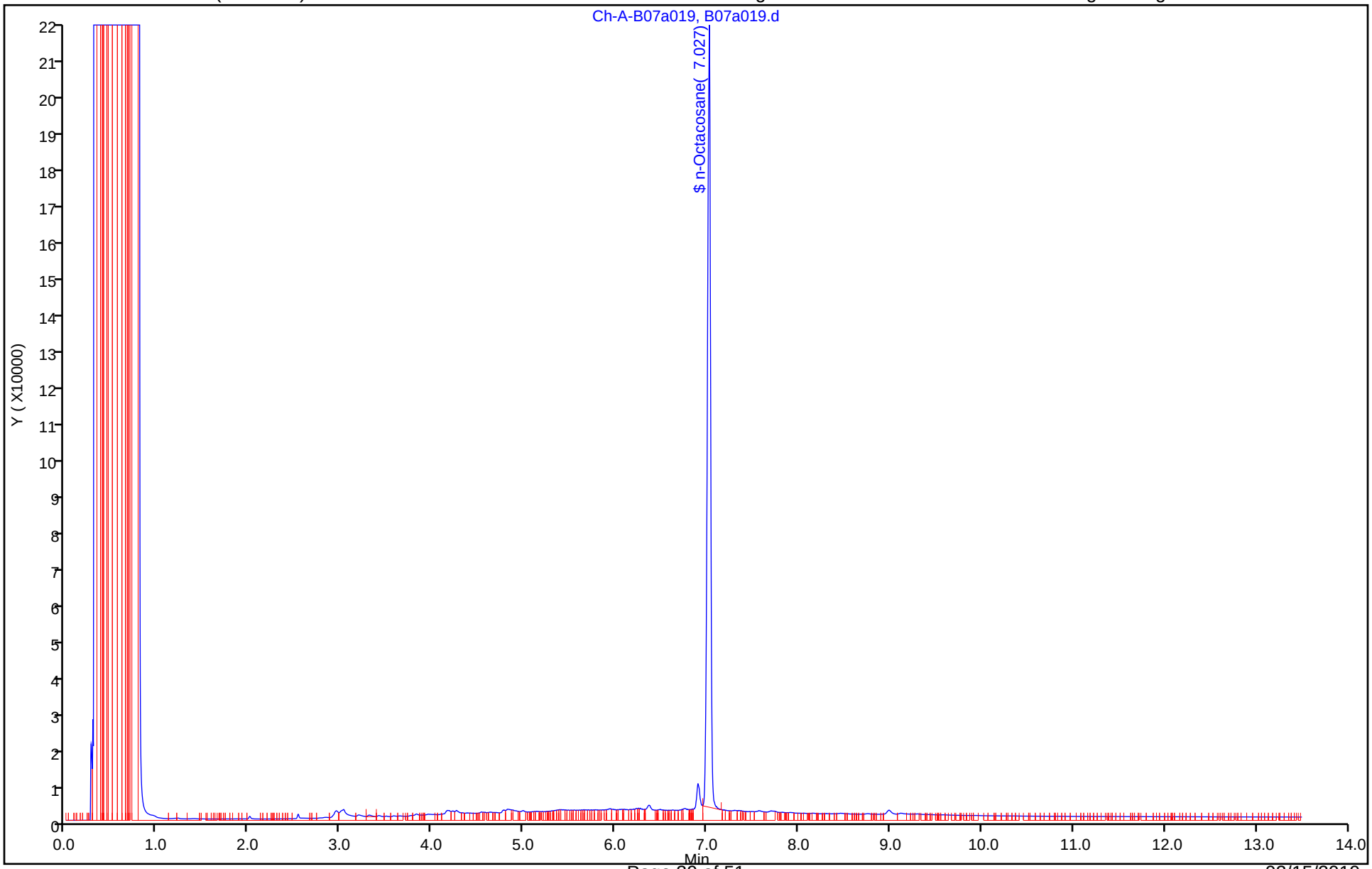
Report Date: 07-Feb-2019 19:53:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a019.d

Injection Date:	07-Feb-2019 18:01:06	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-D-8-A	Lab Sample ID:	440-91104-8	Worklist Smp#:	19
Client ID:	DG-AT9W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a019.d				
Lims ID:	720-91104-D-8-A				
Client ID:	DG-AT9W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 18:01:06	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 19:53:06	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 07-Feb-2019 19:53:06

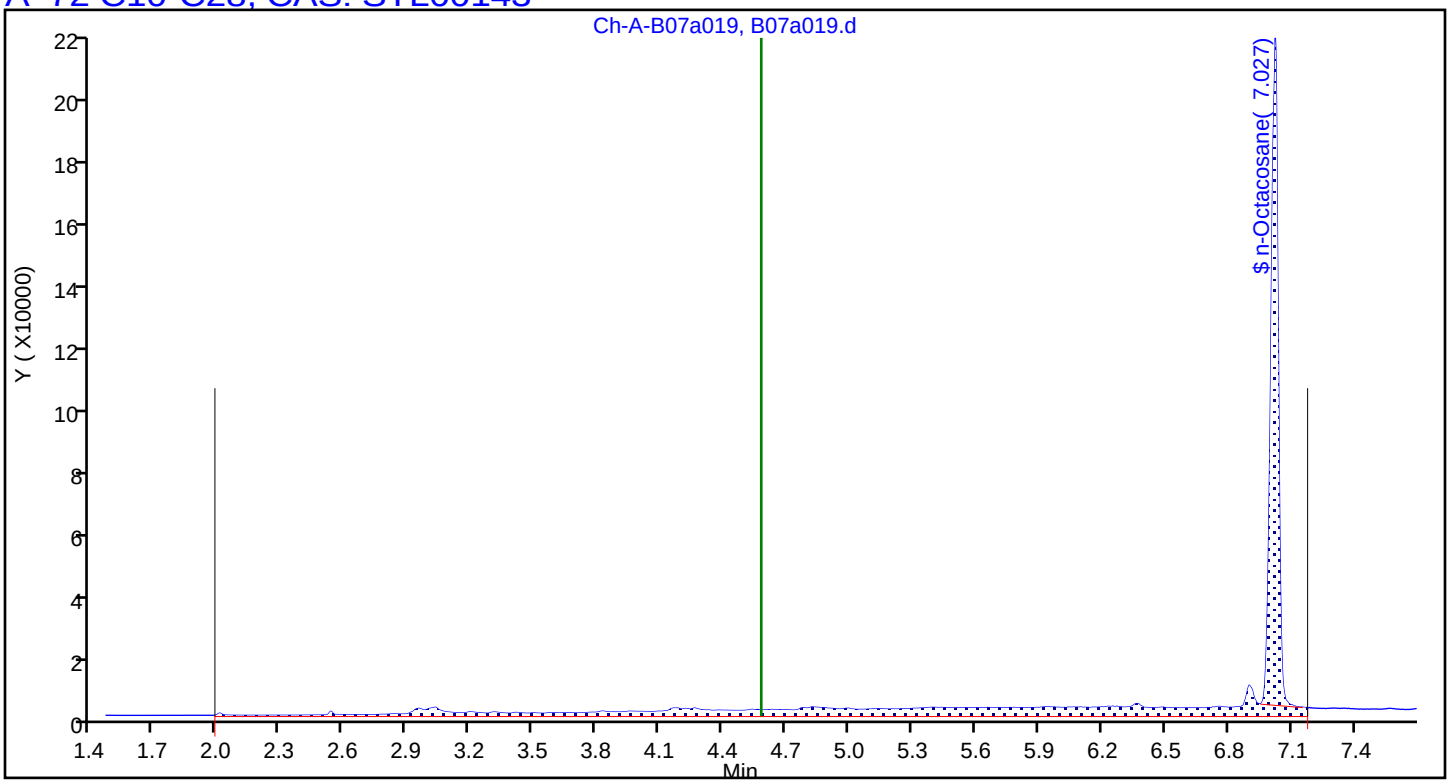
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	133.8	66.89
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 19:53:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a019.d				
Injection Date:	07-Feb-2019 18:01:06	Instrument ID:	GC70A		
Lims ID:	720-91104-D-8-A	Lab Sample ID:	440-91104-8		
Client ID:	DG-AT9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

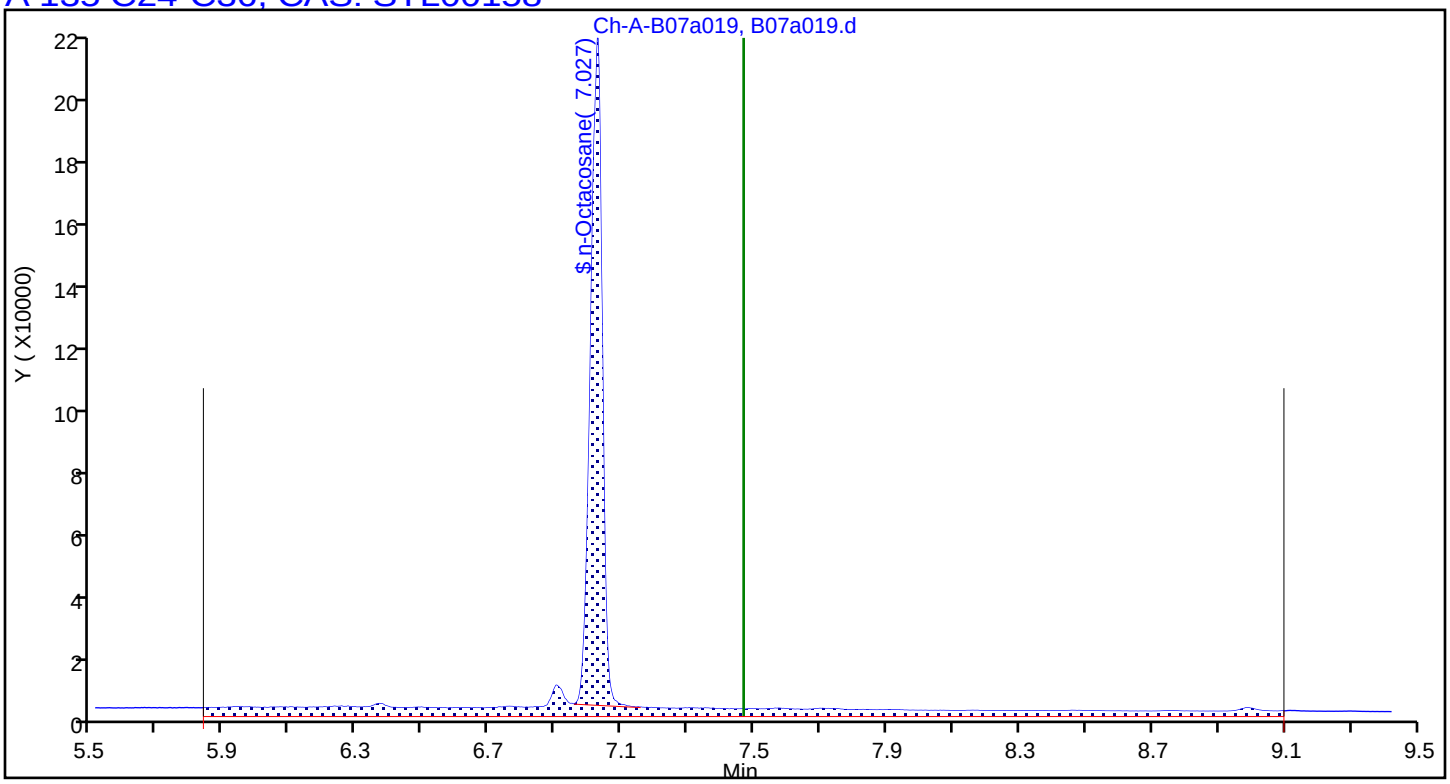


Report Date: 07-Feb-2019 19:53:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a019.d				
Injection Date:	07-Feb-2019 18:01:06	Instrument ID:	GC70A		
Lims ID:	720-91104-D-8-A	Lab Sample ID:	440-91104-8		
Client ID:	DG-AT9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a020.d				
Lims ID:	720-91104-E-12-A				
Client ID:	DUP-31				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 18:22:35	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 19:53:23	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	07-Feb-2019 19:53:23		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		544537	150.3	
$ 127 n-Octacosane	7.023	7.033	-0.010	547379	148.8	
A 135 C24-C36	7.468	(5.837-9.098)		373297	103.1	

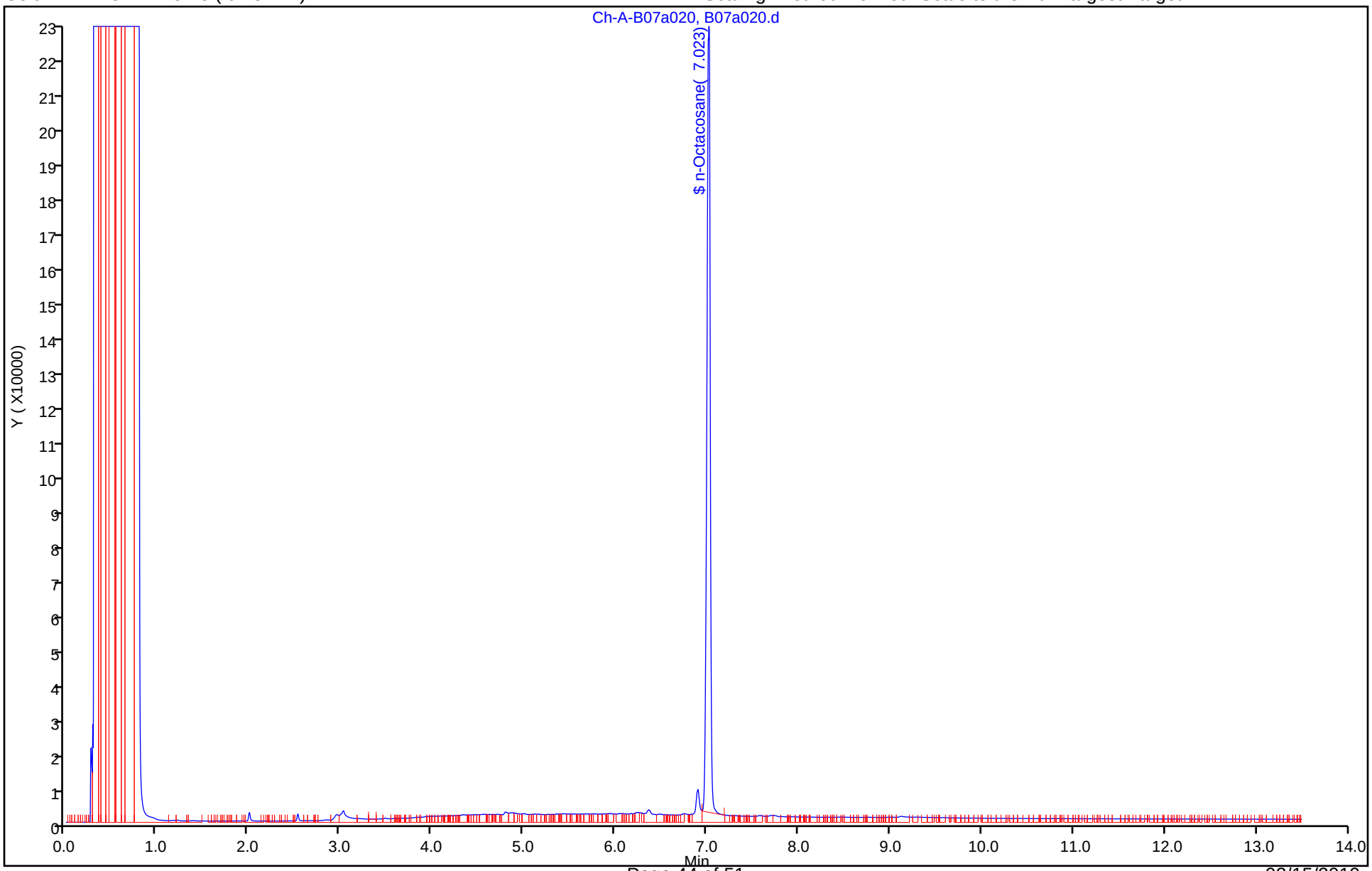
Report Date: 07-Feb-2019 19:53:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a020.d

Injection Date:	07-Feb-2019 18:22:35	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91104-E-12-A	Lab Sample ID:	440-91104-12	Worklist Smp#:	20
Client ID:	DUP-31				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a020.d				
Lims ID:	720-91104-E-12-A				
Client ID:	DUP-31				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 18:22:35	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 19:53:23	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 07-Feb-2019 19:53:23

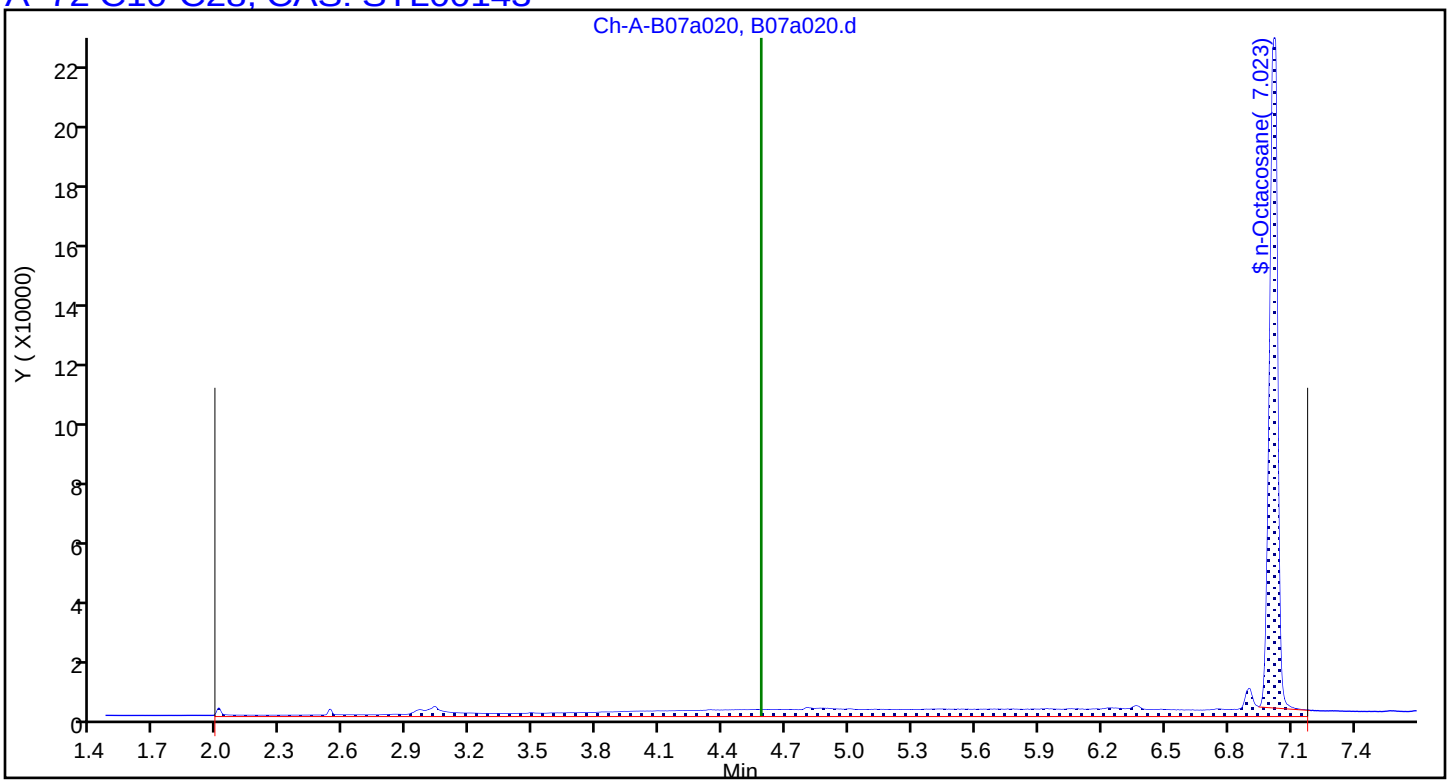
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	148.8	74.39
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 19:53:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a020.d				
Injection Date:	07-Feb-2019 18:22:35	Instrument ID:	GC70A		
Lims ID:	720-91104-E-12-A	Lab Sample ID:	440-91104-12		
Client ID:	DUP-31				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

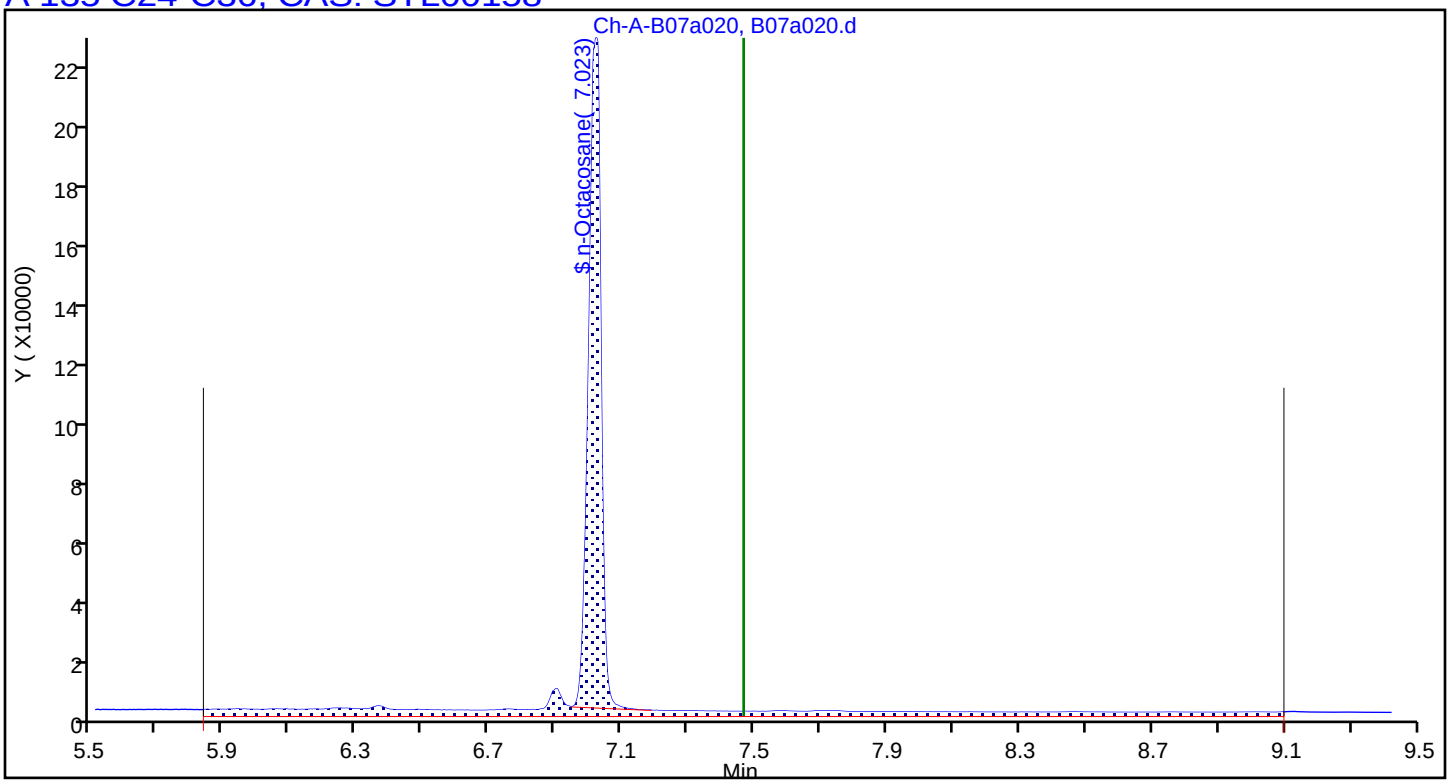


Report Date: 07-Feb-2019 19:53:23 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a020.d				
Injection Date:	07-Feb-2019 18:22:35	Instrument ID:	GC70A		
Lims ID:	720-91104-E-12-A	Lab Sample ID:	440-91104-12		
Client ID:	DUP-31				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-91104

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/31/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahrilas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91104 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1	DG-AB5W	1/31/2019	1000	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2	DG-AG7W	1/31/2019	1100	G	GW	9	Y		X	X	X	X	X	
3	DG-AL5W	1/31/2019	1130	G	GW	9	Y		X	X	X	X	X	
4	DG-AQ7W	1/31/2019	1150	G	GW	9	Y		X	X	X	X	X	
5	DG-AW3W	1/31/2019	1210	G	GW	9	Y		X	X	X	X	X	
6	DG-AQ11W	1/31/2019	1350	G	GW	9	Y		X	X	X	X	X	
7	DG-AS11W	1/31/2019	1420	G	GW	9	Y		X	X	X	X	X	
8	DG-AT9W	1/31/2019	1440	G	GW	9	Y		X	X	X	X	X	
9	DG-AO11W	1/31/2019	1520	G	GW	3	N		X					
10	DG-T17W	1/31/2019	1550	G	GW	3	N		X					
11	FB-01.31.19	1/31/2019		G	GW	2	N		X					
(W8) 12	~~DUP-75~~ DUP-31	1/31/2019		G	GW	9	Y		X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.5°C, 1.5°C, 0.8°C, 0.1°C, 2.2°C, 1.1°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No ____			
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/31/2019 1615	Received by:	Company: TA PLS	Date/Time: 1-31-19 1615
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19 1815	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1/31/19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/15/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925 484.1919 fax 925.600.3002

720-91104 Chain of Custody Record

F 15804

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1/31/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client
bchen@geosyntec com, mkahnlas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			Lab Sampling.
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site. Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
			G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
13 TB-01.31.19	1/31/2019		G	GW	2	N		X					

MS MS MS MS

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd ____ Corr'd ____		Therm ID No ____
Relinquished by: Nathan Schachtman	Company: Geosyntec	Date/Time: 1/31/2019 16:15	Received by:	Company: TA PLS	Date/Time: 1-31-19 16:15
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-31-19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41028.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91104-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/12/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AB5W (720-91104-1)	1/31/19	10:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AG7W (720-91104-2)	1/31/19	11.00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AL5W (720-91104-3)	1/31/19	11:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AQ7W (720-91104-4)	1/31/19	11:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AW3W (720-91104-5)	1/31/19	12:10 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AQ11W (720-91104-6)	1/31/19	13:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AS11W (720-91104-7)	1/31/19	14:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AT9W (720-91104-8)	1/31/19	14:40 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AO11W (720-91104-9)	1/31/19	15:20 Pacific		Water			X	X			3	check for 2 phases

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by		Date:	Time:		Method of Shipment	
Relinquished by:	Date/Time: 2/01/19 1232	Company: TAPL	Received by:	Date/Time:		Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 2/2/19 @ 1045		Company TAPL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:		Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: W754 4571 3458

Cooler Temperature(s) °C and Other Remarks: B0/4.5

Ver. 09/20/2016

02/15/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No.: 720-41028.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91104-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/12/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-T17W (720-91104-10)	1/31/19	15:50 Pacific		Water			X	X			3	check for 2 phases
FB-01.31.19 (720-91104-11)	1/31/19	Pacific		Water			X	X			2	check for 2 phases
DUP-31 (720-91104-12)	1/31/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-01.31.19 (720-91104-13)	1/31/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2/1/19 1232	TAPS			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-91105-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
2/21/2019 9:46 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/21/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-91105-1

Comments
Client was informed of broken vials when sample acknowledgments were sent.

Receipt
The samples were received on 1/31/2019 6:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.0º C, 0.8º C, 1.5º C, 1.5º C, 2.2º C and 4.1º C.

Receipt Exceptions

One or more containers for the following sample was received broken or leaking: FB-01.31.19 (720-91105-18).
Received both FB vials broken.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-526536 recovered above the upper control limit for Vinyl chloride and 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AS11S-7.5-8 (720-91105-3), DG-AW3S-0.5-1 (720-91105-4), DG-AW3S-3.5-4 (720-91105-5), DG-AY3S-0.5-1 (720-91105-6), DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8) and (CCVIS 440-526536/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The method blank for preparation batch 720-259667 and analytical batch 720-260119 contained Benzo[b]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259667 and analytical batch 720-260119 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-AW3S-3.5-4 (720-91105-5). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259687 and analytical batch 720-260175 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AW3S-0.5-1 (720-91105-4), DG-AY3S-0.5-1 (720-91105-6), DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8), DG-Y15S-3.5-4 (720-91105-9), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11), DUP-109 (720-91105-12), DG-AC15S-3.5-4 (720-91105-13), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-0.5-1 (720-91105-15), DG-AN13S-9.5-10 (720-91105-17) and DUP-111 (720-91105-20). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Internal standard (ISTD) response for the following sample was outside control limits: DG-AN13S-9.5-10 (720-91105-17). The sample(s) was re-analyzed with concurring results, and the original set of data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following 8015-DRO samples required a dilution due to the nature of the sample matrix: DG-AS11S-0.5-1 (720-91105-1), (720-91105-E-1-A MS) and (720-91105-E-1-B MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: Due to the high concentration of C10-C28, the 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 440-526652 and analytical batch 440-526844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015B: The 8015-DRO method blank for preparation batch 440-526652 and analytical batch 440-526644 contained C10-C28 and C24-C36 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: The following 8015-DRO sample required a dilution due to the nature of the sample matrix: DG-AN13S-0.5-1 (720-91105-15). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AS11S-0.5-1

(720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AS11S-7.5-8 (720-91105-3), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11), DG-AC15S-3.5-4 (720-91105-13), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-0.5-1 (720-91105-15), DG-AN13S-9.5-10 (720-91105-17), DUP-111 (720-91105-20), (720-91105-E-1-D MS) and (720-91105-E-1-E MSD).

Method 8082: The following sample contained more than one Aroclor with insufficient separation. Results biased high due to shared peaks: DG-AS11S-0.5-1 (720-91105-1).

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 440-527345 and analytical batch 440-527416 were outside control limits: (720-91105-E-1-F MS) and (720-91105-E-1-G MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AC15S-3.5-4 (720-91105-13), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-9.5-10 (720-91105-17) and DUP-111 (720-91105-20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The method blank for preparation batch 720-259629 and analytical batch 720-259950 contained Barium, Lead above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259629 and analytical batch 720-259950 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Chromium-129%, Copper-148%, Lead-260%, Vanadium-134%, Zinc-140% associated with batch 720-259950 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-259950 was outside control limits for Cobalt-25%, Lead-12%: (720-91012-A-16-F SD)

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AS11S-7.5-8 (720-91105-3), DG-AW3S-0.5-1 (720-91105-4), DG-AW3S-3.5-4 (720-91105-5), DG-AY3S-0.5-1 (720-91105-6), DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8), DG-Y15S-3.5-4 (720-91105-9), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11), DUP-109 (720-91105-12), DG-AC15S-3.5-4 (720-91105-13) and DG-AC15S-7.5-8 (720-91105-14). Elevated reporting limits (RLs) are provided.

Method 7471A: The method blank for preparation batch 720-259641 and analytical batch 720-260373 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 720-259672 and analytical batch 720-260374 contained Beryllium, Antimony, and Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259672 and analytical batch 720-260374 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Barium-133%, Beryllium-128%, Chromium-128%, Copper-127%, Molybdenum-126%, and Vanadium-192% associated with batch 720-260374 was outside of control limits.

Method 6010B: The serial dilution performed for the following sample associated with batch 720-260374 was outside control limits for Cobalt-16%, Chromium-15%, Nickel-16% and Vanadium-11%: (720-91106-A-6-F SD)

Method 6010B: The continuing calibration verification (CCV) associated with batch 720-260374 recovered above the upper control limit for Thallium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DUP-111 (720-91105-20) and (CCV 720-260374/43). Affected sample results for these compounds have been qualified with a “^” symbol .

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AN13S-0.5-1 (720-91105-15), DG-AN13S-3.5-4 (720-91105-16), DG-AN13S-9.5-10 (720-91105-17) and DUP-111 (720-91105-20). Elevated reporting limits (RLs) are provided.

Method 6010B: The following sample was diluted to bring the concentration of target analyte (Lead) within the calibration range: DG-AN13S-9.5-10 (720-91105-17). Elevated reporting limits (RLs) are provided.

Method 6010B: The following sample was diluted due to the abundance of non-target analytes: DG-AN13S-9.5-10 (720-91105-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8270_SIM_3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 2 mL. DG-AS11S-0.5-1 (720-91105-1). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM_3546: Due to the matrix, the following samples could not be concentrated to the final method required volume and were volumed to 2 mL. DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11) and DG-AC15S-7.5-8 (720-91105-14). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM_3546: Due to the matrix, the following sample could not be concentrated to the final method required volume and was volumed to 5 mL. DG-AN13S-0.5-1 (720-91105-15). The reporting limits (RLs) are elevated proportionately.

Method 3546:8015B DRO: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AS11S-0.5-1 (720-91105-1), DG-AS11S-3.5-4 (720-91105-2), DG-AW3S-0.5-1 (720-91105-4), DG-AW3S-3.5-4 (720-91105-5), DG-AY3S-3.5-4 (720-91105-7), DG-Y15S-0.5-1 (720-91105-8), DG-Y15S-3.5-4 (720-91105-9), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-0.5-1 (720-91105-11), DUP-109 (720-91105-12), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-0.5-1 (720-91105-15), DUP-111 (720-91105-20), (720-91105-E-1 MS) and (720-91105-E-1 MSD). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8015B DRO: The following samples were diluted due to the nature of the sample matrix: DG-AS11S-7.5-8 (720-91105-3), DG-Y15S-7.5-8 (720-91105-10), DG-AC15S-3.5-4 (720-91105-13), DG-AC15S-7.5-8 (720-91105-14), DG-AN13S-0.5-1 (720-91105-15) and DG-AN13S-9.5-10 (720-91105-17). Elevated reporting limits (RLs) are provided.

Method 3546: 8082_PCB: The following sample was diluted due to the nature of the sample matrix: DG-AC15S-7.5-8 (720-91105-14). Elevated reporting limits (RLs) are provided.

Method 3546: 8081A_PEST: The following sample was diluted due to the nature of the sample matrix: DG-AC15S-7.5-8 (720-91105-14). Elevated reporting limits (RLs) are provided.

Method 3546: 8081A_PEST: The following samples were diluted due to the nature of the sample matrix: DG-AS11S-3.5-4 (720-91105-2) and DG-AS11S-7.5-8 (720-91105-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190205-115118.b\B05a023.d				
Lims ID:	720-91105-E-1-C				
Client ID:	DG-AS11S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 17:37:51	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190205-115118.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 18:31:05	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				
First Level Reviewer: barnettl		Date:	05-Feb-2019 18:31:05		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.574	(1.878-7.270)		4993565	1511.5	
$ 127 n-Octacosane	7.072	7.085	-0.013	31067	9.54	
A 136 C24-C36	7.527	(5.887-9.167)		6684293	2023.2	

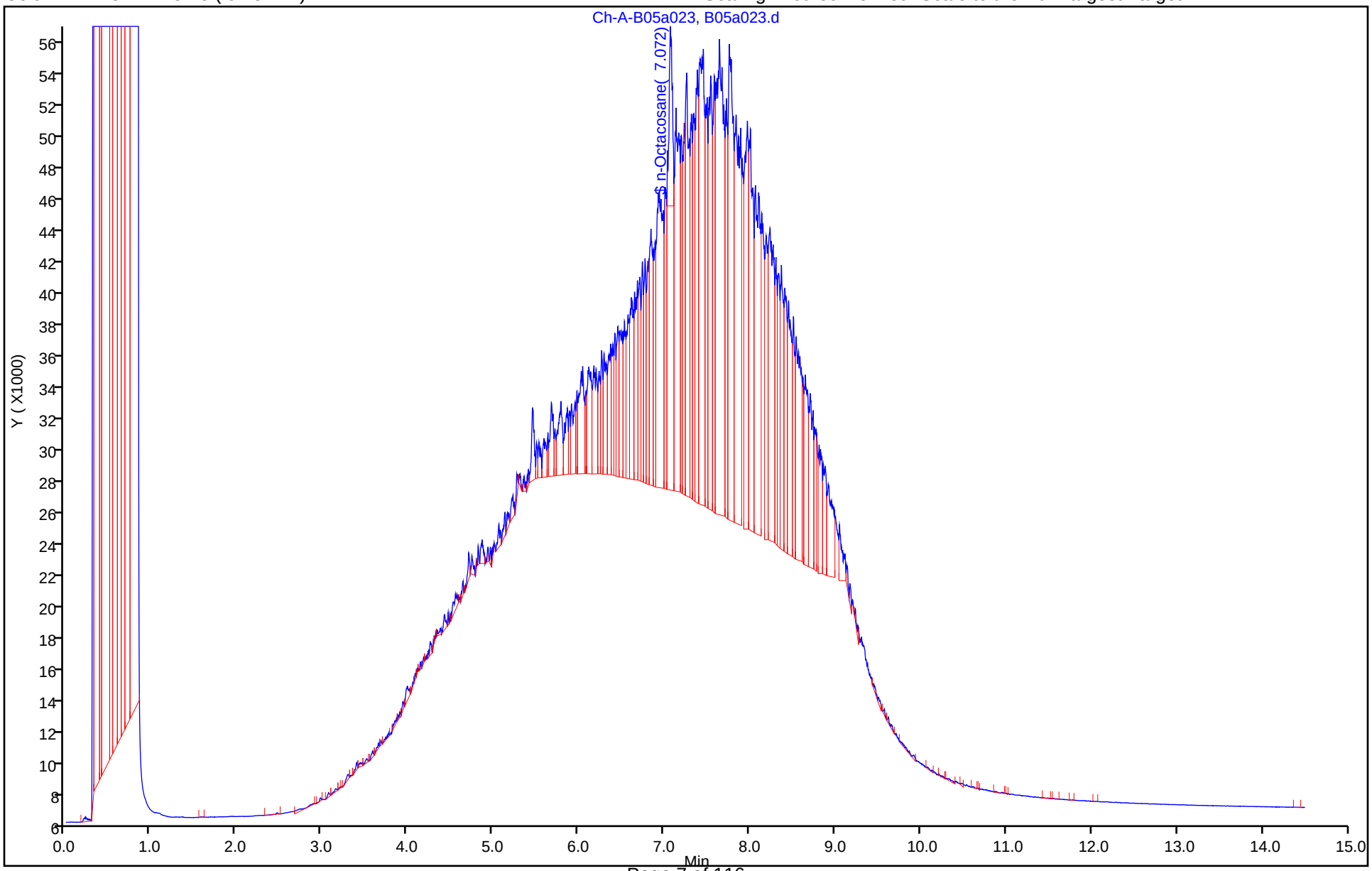
Report Date: 05-Feb-2019 18:31:08 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190205-115118.b\B05a023.d

Injection Date:	05-Feb-2019 17:37:51	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-1-C	Lab Sample ID:	440-91105-1	Worklist Smp#:	46
Client ID:	DG-AS11S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190205-115118.b\B05a023.d				
Lims ID:	720-91105-E-1-C				
Client ID:	DG-AS11S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 17:37:51	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190205-115118.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 18:31:05	Calib Date:	30-Dec-2018 20:20:53		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20181230-113695.b\L30a033.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				

First Level Reviewer: barnettl Date: 05-Feb-2019 18:31:05

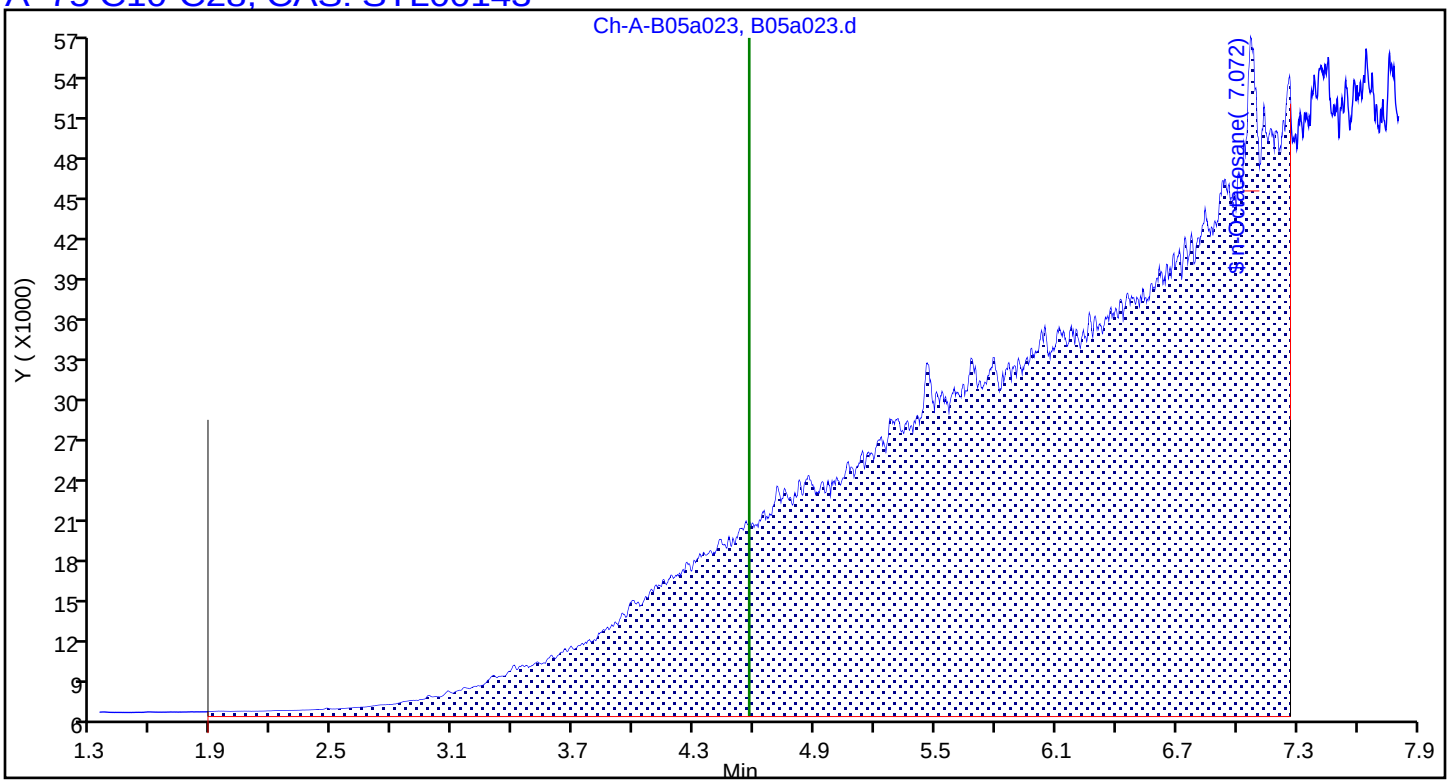
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	9.54	95.35

Report Date: 05-Feb-2019 18:31:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190205-115118.b\B05a023.d				
Injection Date:	05-Feb-2019 17:37:51	Instrument ID:	GC69A		
Lims ID:	720-91105-E-1-C	Lab Sample ID:	440-91105-1		
Client ID:	DG-AS11S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

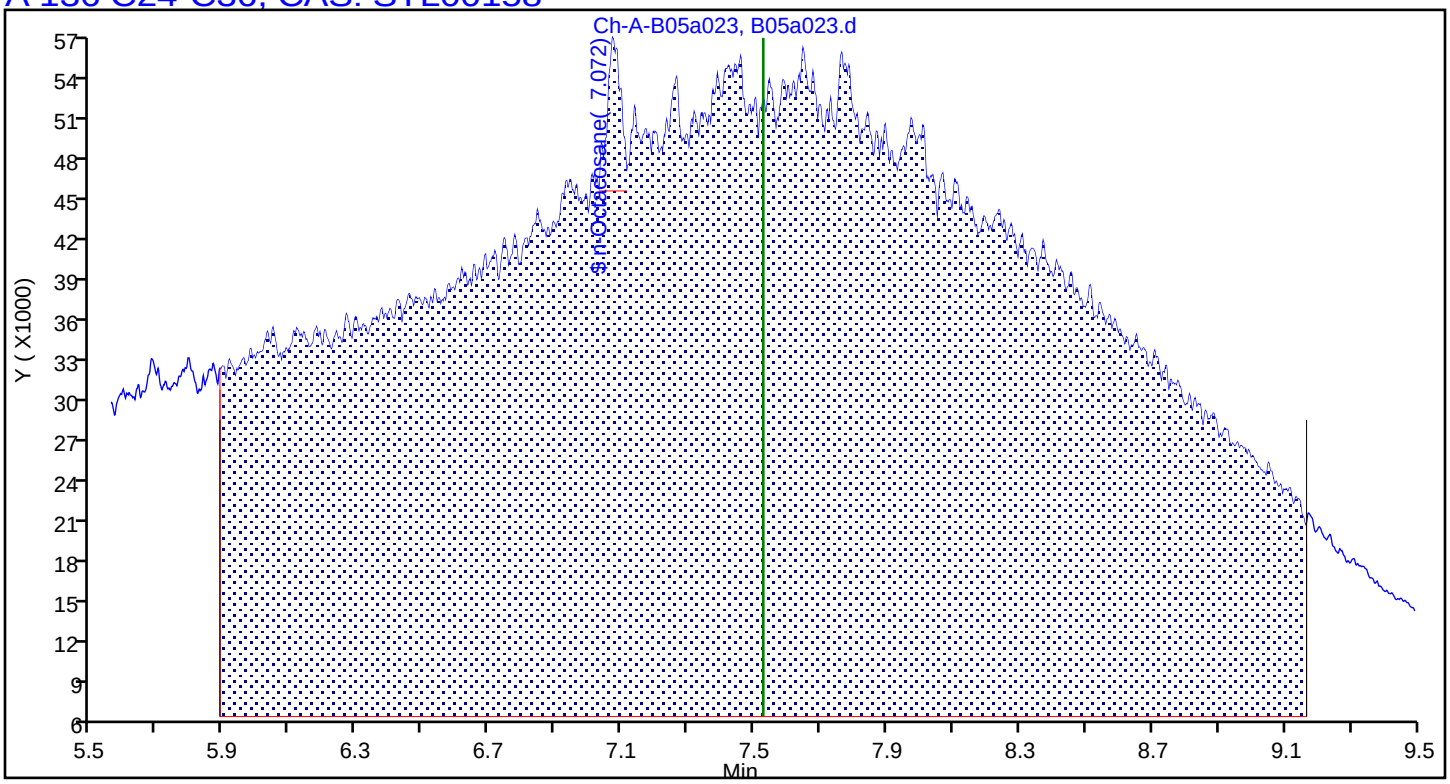


Report Date: 05-Feb-2019 18:31:09 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190205-115118.b\B05a023.d				
Injection Date:	05-Feb-2019 17:37:51	Instrument ID:	GC69A		
Lims ID:	720-91105-E-1-C	Lab Sample ID:	440-91105-1		
Client ID:	DG-AS11S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a047.d				
Lims ID:	720-91105-E-2-A				
Client ID:	DG-AS11S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 04:48:12	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:27:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:27:43		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		1439294	397.4	
$ 127 n-Octacosane	7.048	7.022	0.026	319621	86.9	
A 135 C24-C36	7.448	(5.797-9.100)		2064771	570.0	

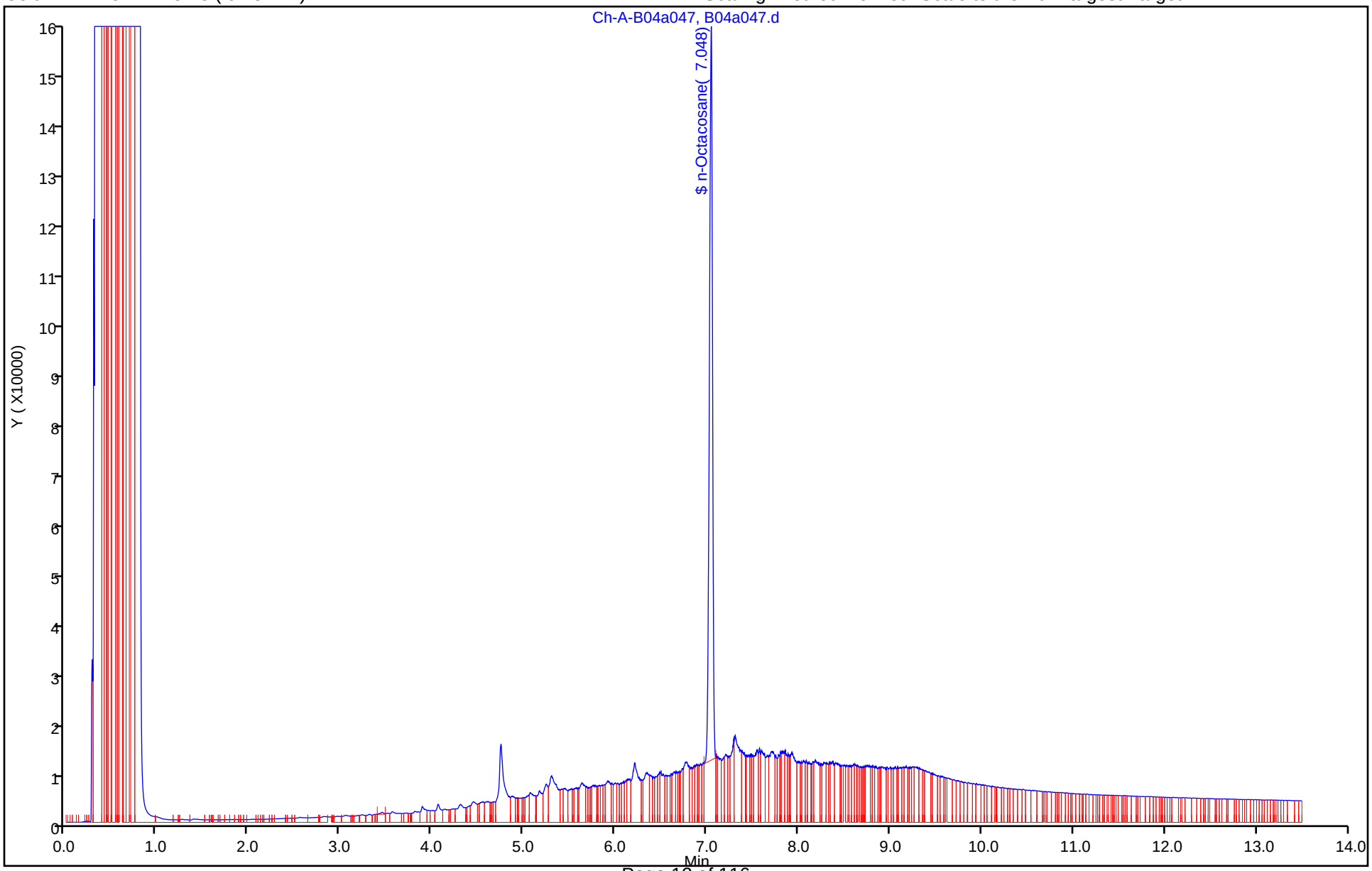
Report Date: 05-Feb-2019 11:27:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a047.d

Injection Date:	05-Feb-2019 04:48:12	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-2-A	Lab Sample ID:	440-91105-2	Worklist Smp#:	47
Client ID:	DG-AS11S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a047.d				
Lims ID:	720-91105-E-2-A				
Client ID:	DG-AS11S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 04:48:12	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:27:43	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:27:43

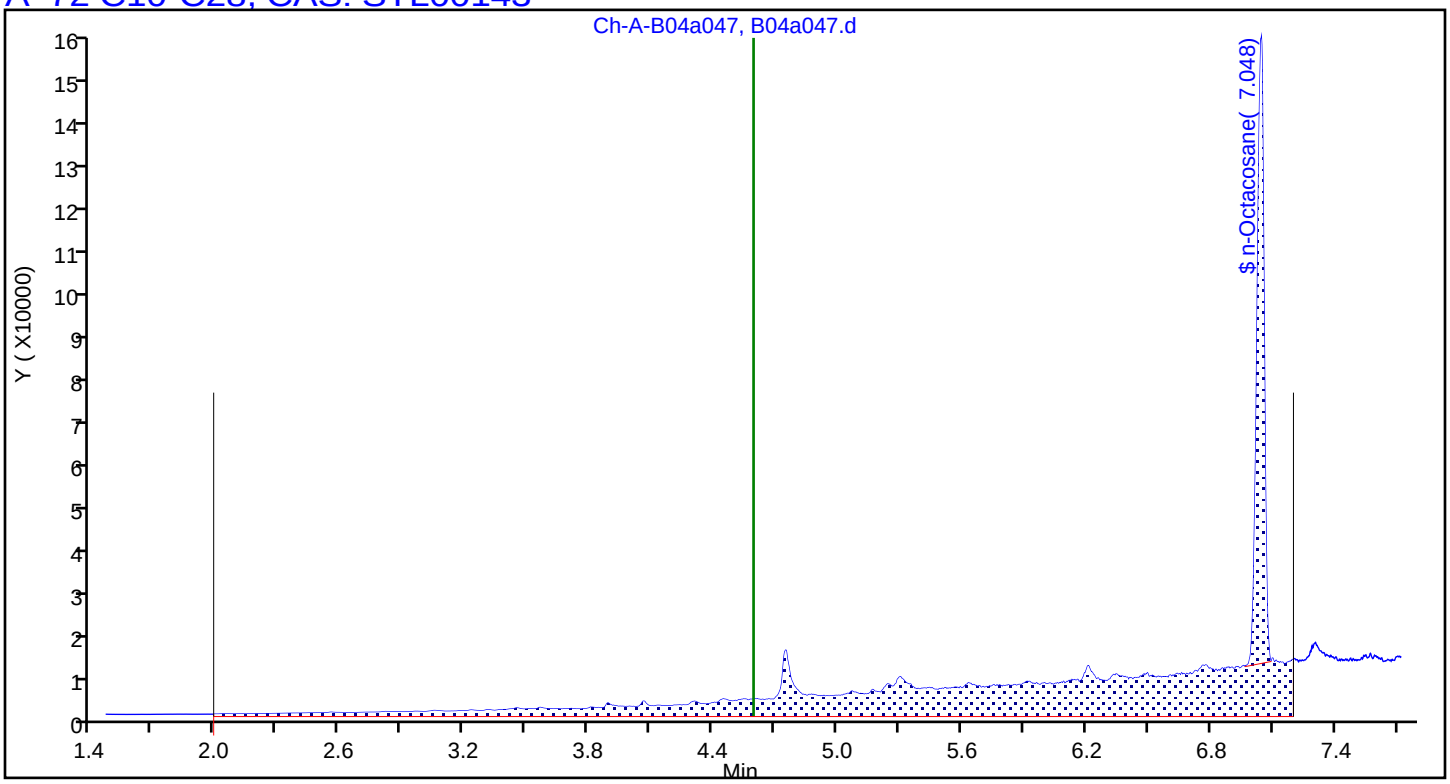
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	86.9	86.88
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:27:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a047.d				
Injection Date:	05-Feb-2019 04:48:12	Instrument ID:	GC70A		
Lims ID:	720-91105-E-2-A	Lab Sample ID:	440-91105-2		
Client ID:	DG-AS11S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

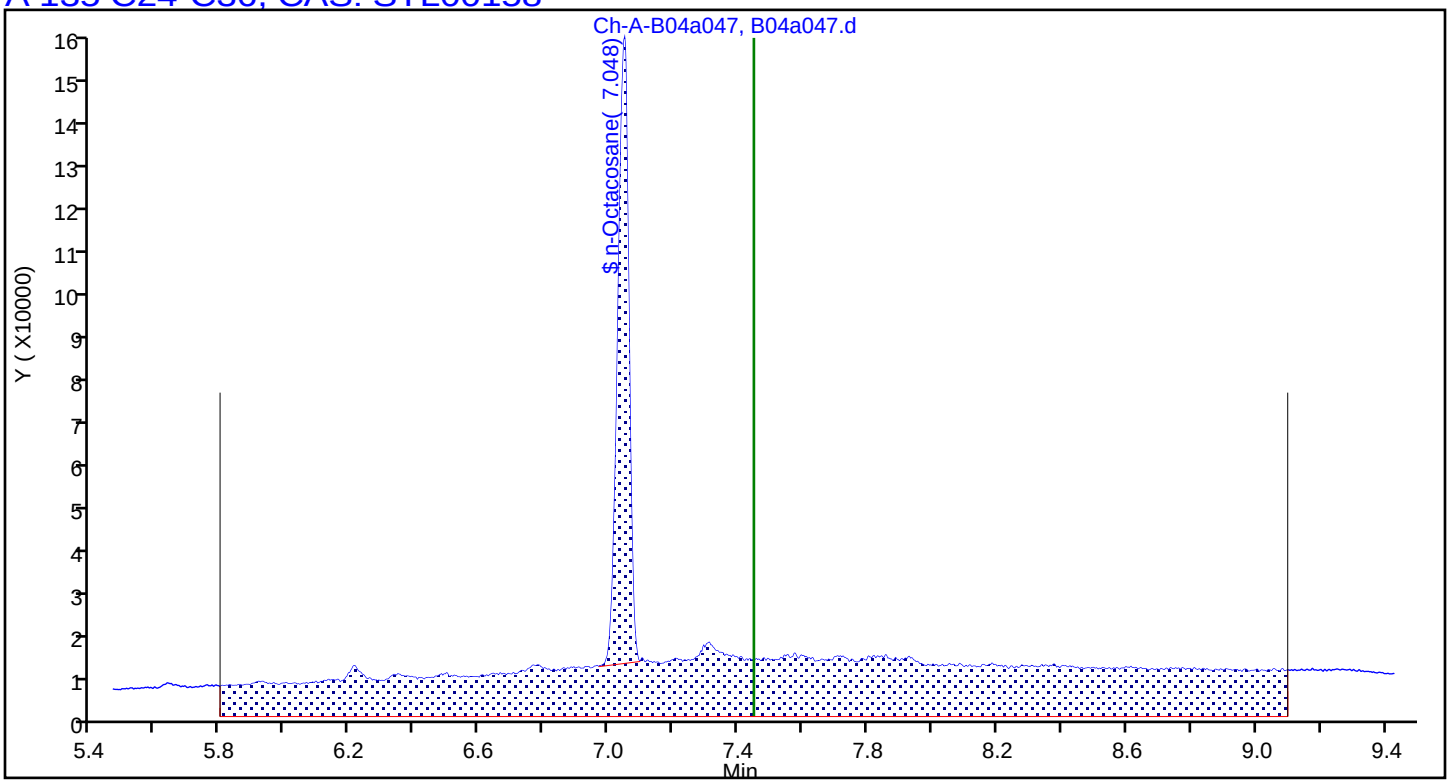


Report Date: 05-Feb-2019 11:27:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a047.d				
Injection Date:	05-Feb-2019 04:48:12	Instrument ID:	GC70A		
Lims ID:	720-91105-E-2-A	Lab Sample ID:	440-91105-2		
Client ID:	DG-AS11S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a051.d				
Lims ID:	720-91105-E-3-A				
Client ID:	DG-AS11S-7.5-8				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 06:13:46	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:29:02	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:29:02		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		386269	106.6	
$ 127 n-Octacosane	7.055	7.022	0.033	612964	166.6	
A 135 C24-C36	7.448	(5.797-9.100)		398681	110.1	

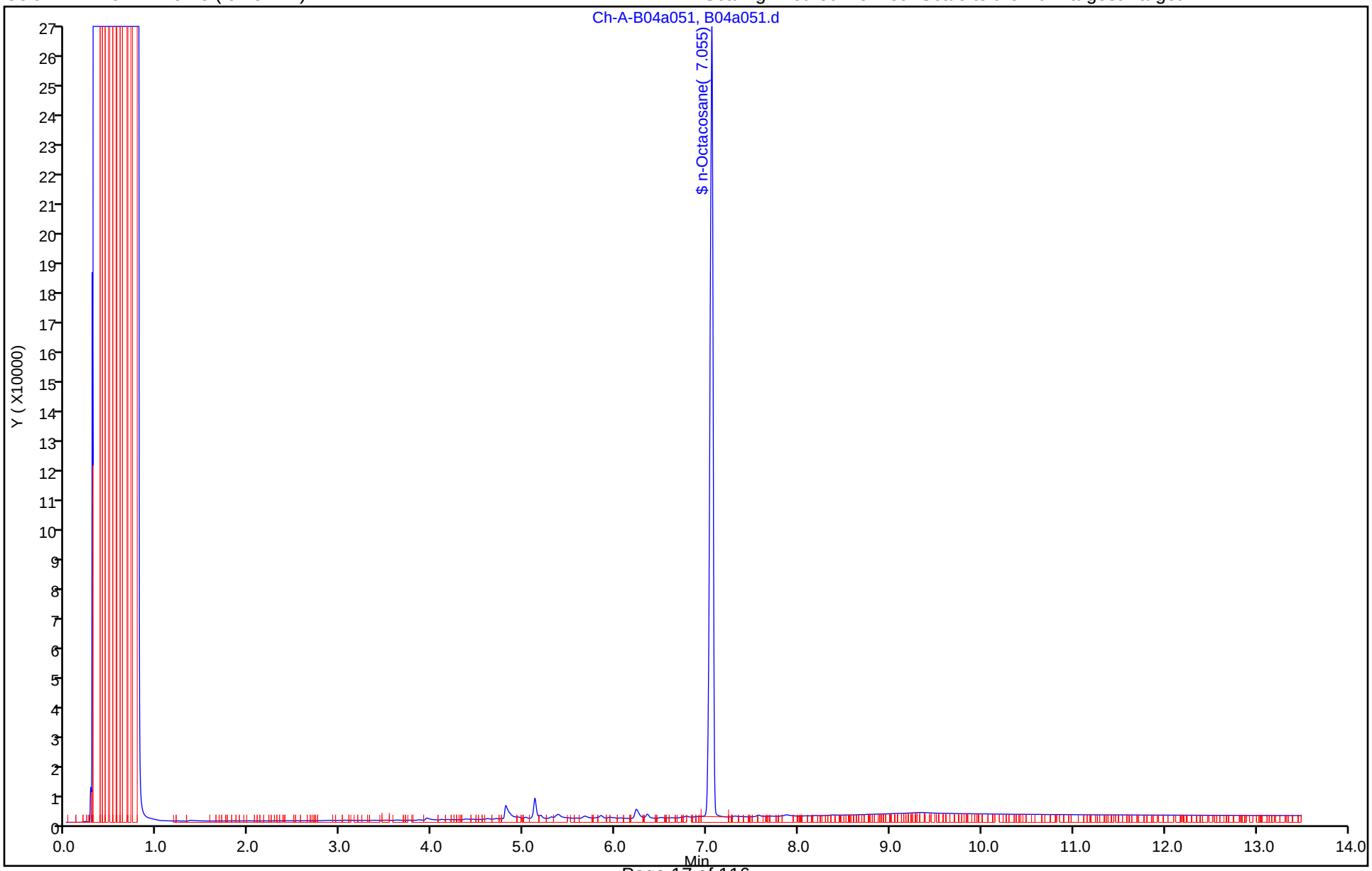
Report Date: 05-Feb-2019 11:29:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a051.d

Injection Date:	05-Feb-2019 06:13:46	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-3-A	Lab Sample ID:	440-91105-3	Worklist Smp#:	51
Client ID:	DG-AS11S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a051.d				
Lims ID:	720-91105-E-3-A				
Client ID:	DG-AS11S-7.5-8				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 06:13:46	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:29:02	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:29:02

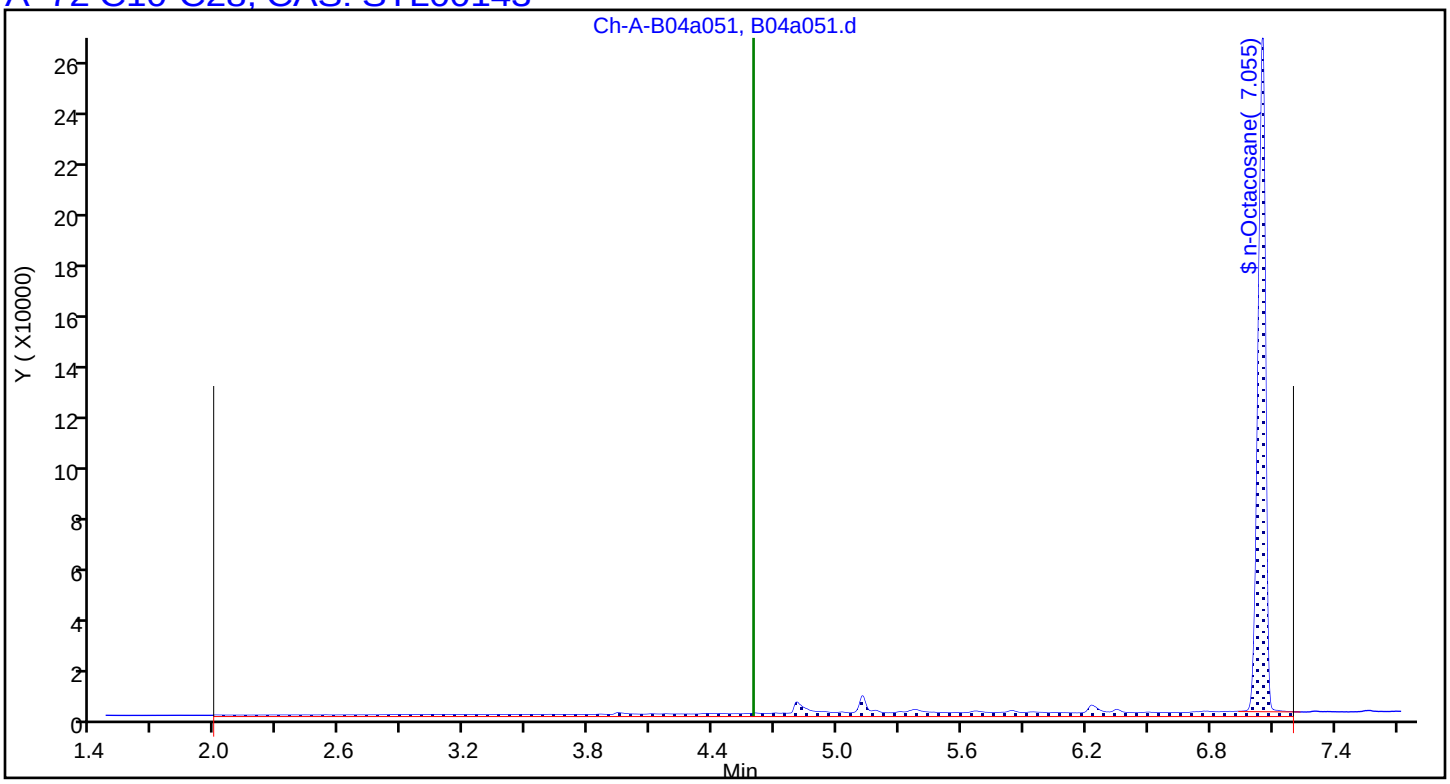
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	166.6	83.31
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:29:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a051.d				
Injection Date:	05-Feb-2019 06:13:46	Instrument ID:	GC70A		
Lims ID:	720-91105-E-3-A	Lab Sample ID:	440-91105-3		
Client ID:	DG-AS11S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

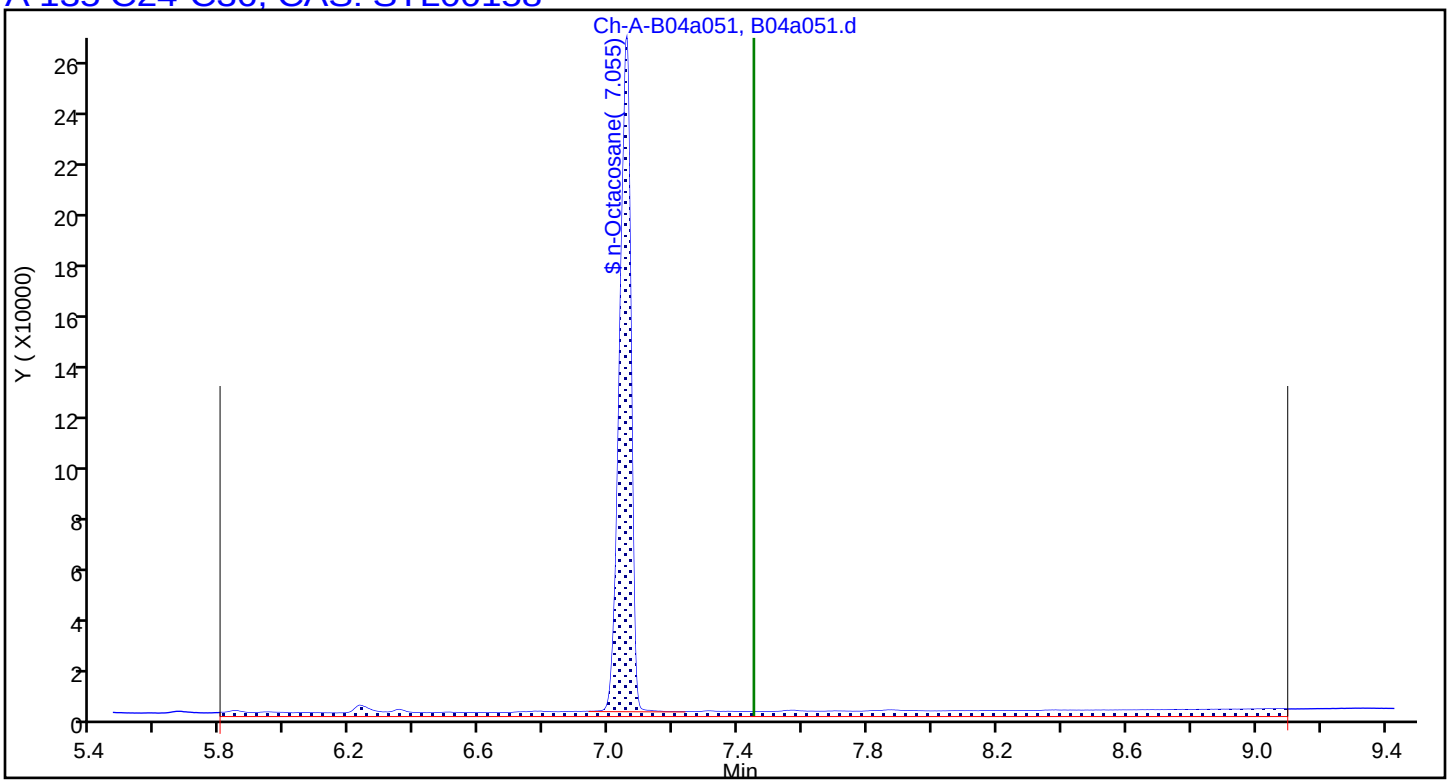


Report Date: 05-Feb-2019 11:29:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a051.d				
Injection Date:	05-Feb-2019 06:13:46	Instrument ID:	GC70A		
Lims ID:	720-91105-E-3-A	Lab Sample ID:	440-91105-3		
Client ID:	DG-AS11S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a048.d				
Lims ID:	720-91105-E-4-A				
Client ID:	DG-AW3S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 05:09:37	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:27:57	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:27:57		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		1137278	314.0	
$ 127 n-Octacosane	7.045	7.022	0.023	353467	96.1	
A 135 C24-C36	7.448	(5.797-9.100)		1416728	391.1	

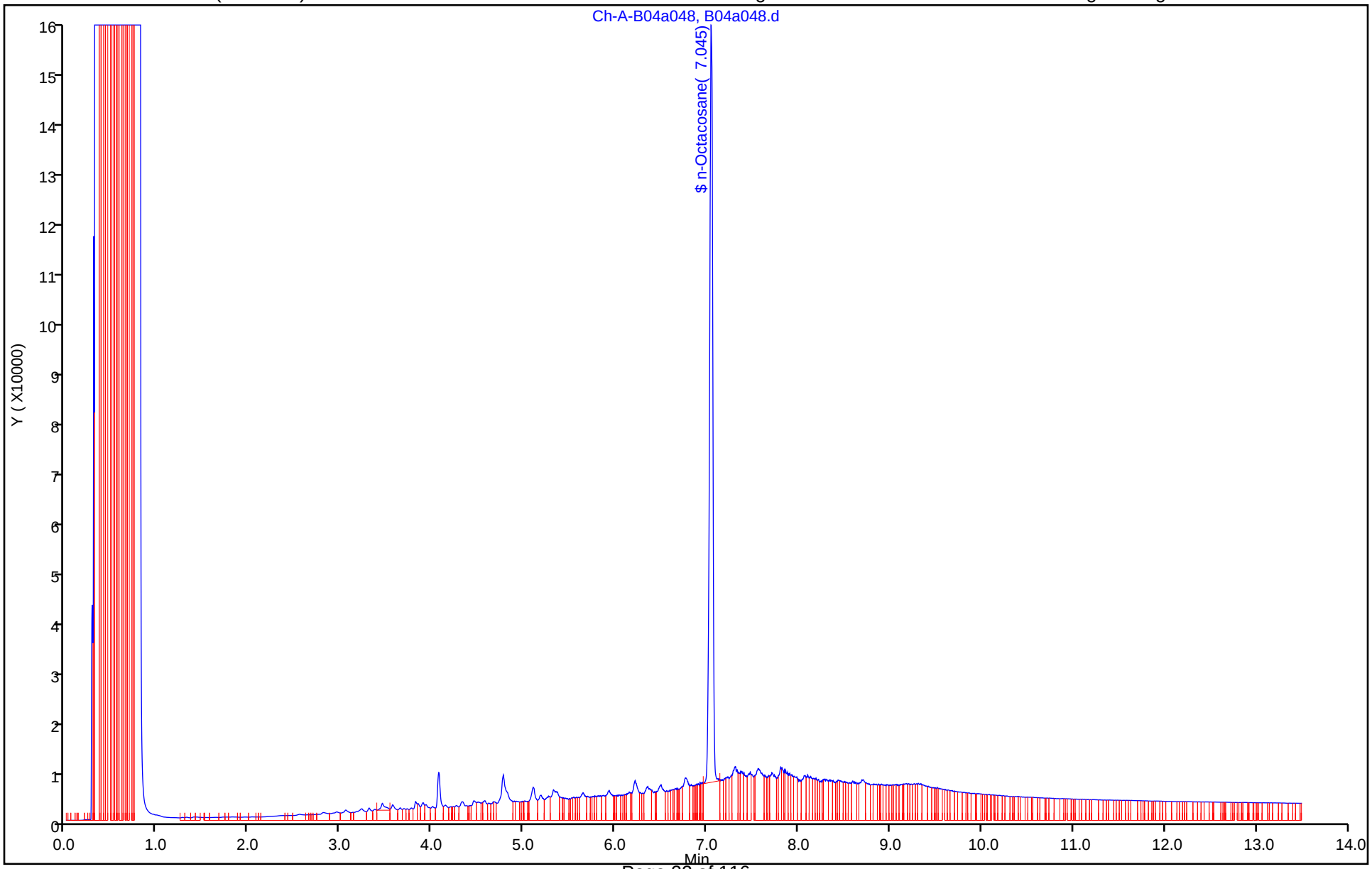
Report Date: 05-Feb-2019 11:27:58 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a048.d

Injection Date:	05-Feb-2019 05:09:37	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-4-A	Lab Sample ID:	440-91105-4	Worklist Smp#:	48
Client ID:	DG-AW3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a048.d				
Lims ID:	720-91105-E-4-A				
Client ID:	DG-AW3S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 05:09:37	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:27:57	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:27:57

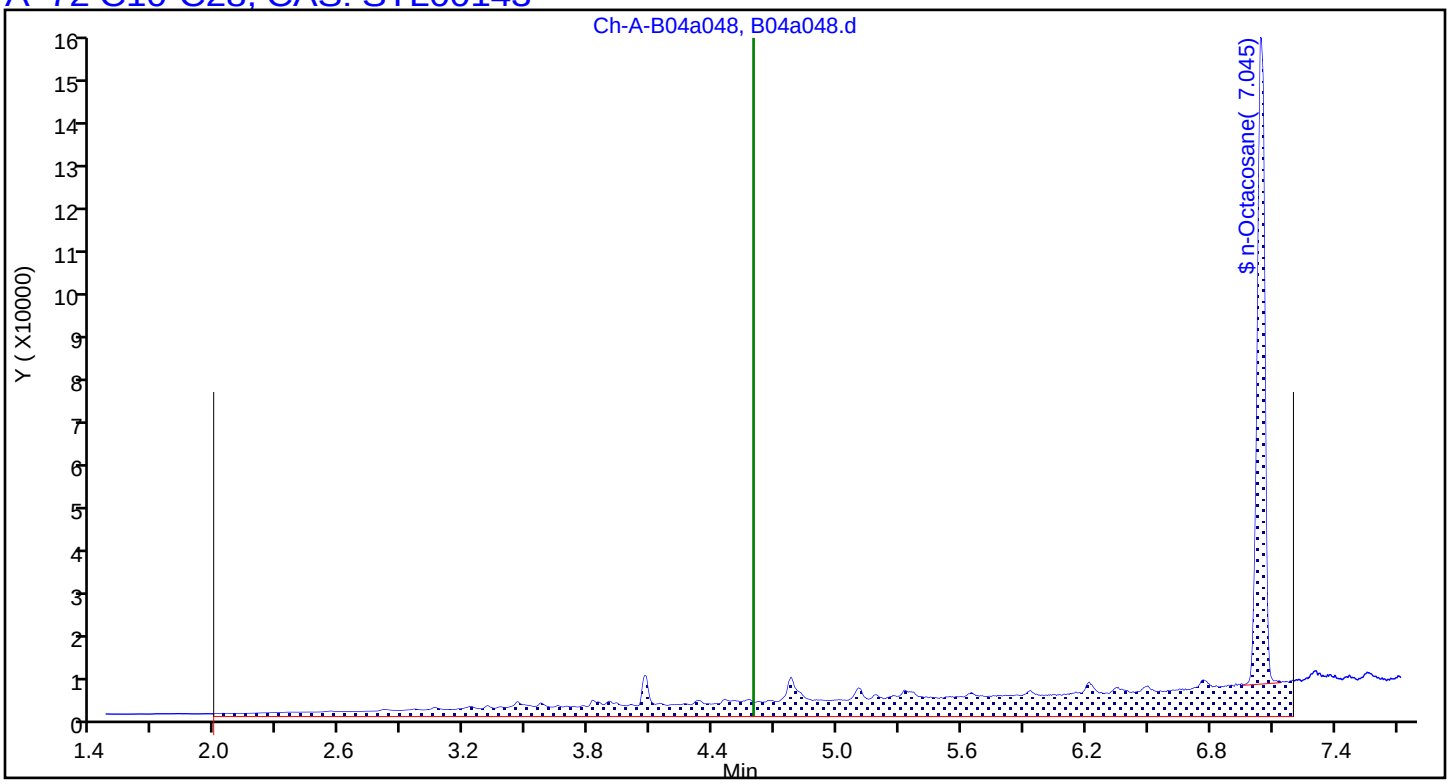
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	96.1	96.08
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:27:58 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a048.d				
Injection Date:	05-Feb-2019 05:09:37	Instrument ID:	GC70A		
Lims ID:	720-91105-E-4-A	Lab Sample ID:	440-91105-4		
Client ID:	DG-AW3S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

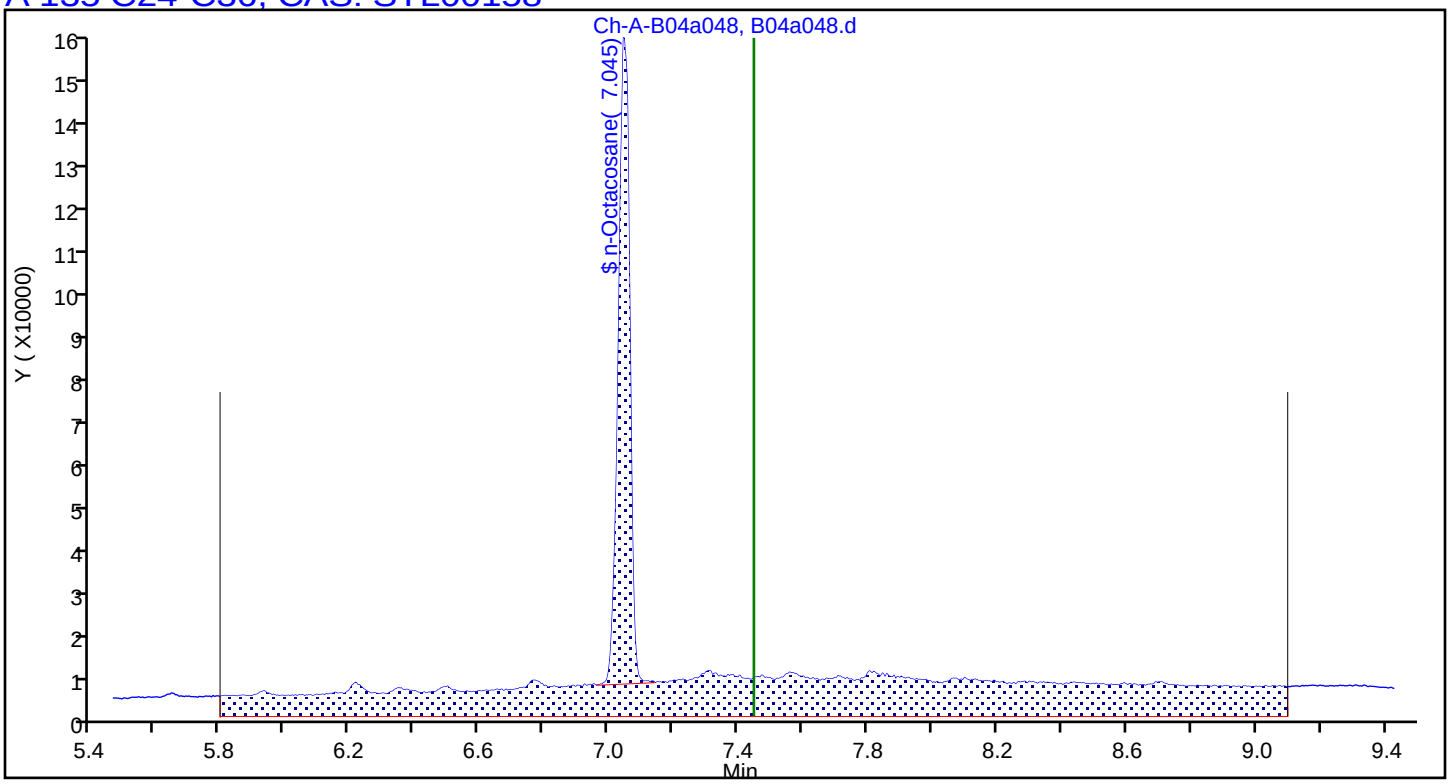


Report Date: 05-Feb-2019 11:27:58 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a048.d				
Injection Date:	05-Feb-2019 05:09:37	Instrument ID:	GC70A		
Lims ID:	720-91105-E-4-A	Lab Sample ID:	440-91105-4		
Client ID:	DG-AW3S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a049.d				
Lims ID:	720-91105-E-5-A				
Client ID:	DG-AW3S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 05:30:56	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:28:13	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:28:13		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		1484119	409.7	
$ 127 n-Octacosane	7.047	7.022	0.025	350304	95.2	
A 135 C24-C36	7.448	(5.797-9.100)		2180401	602.0	

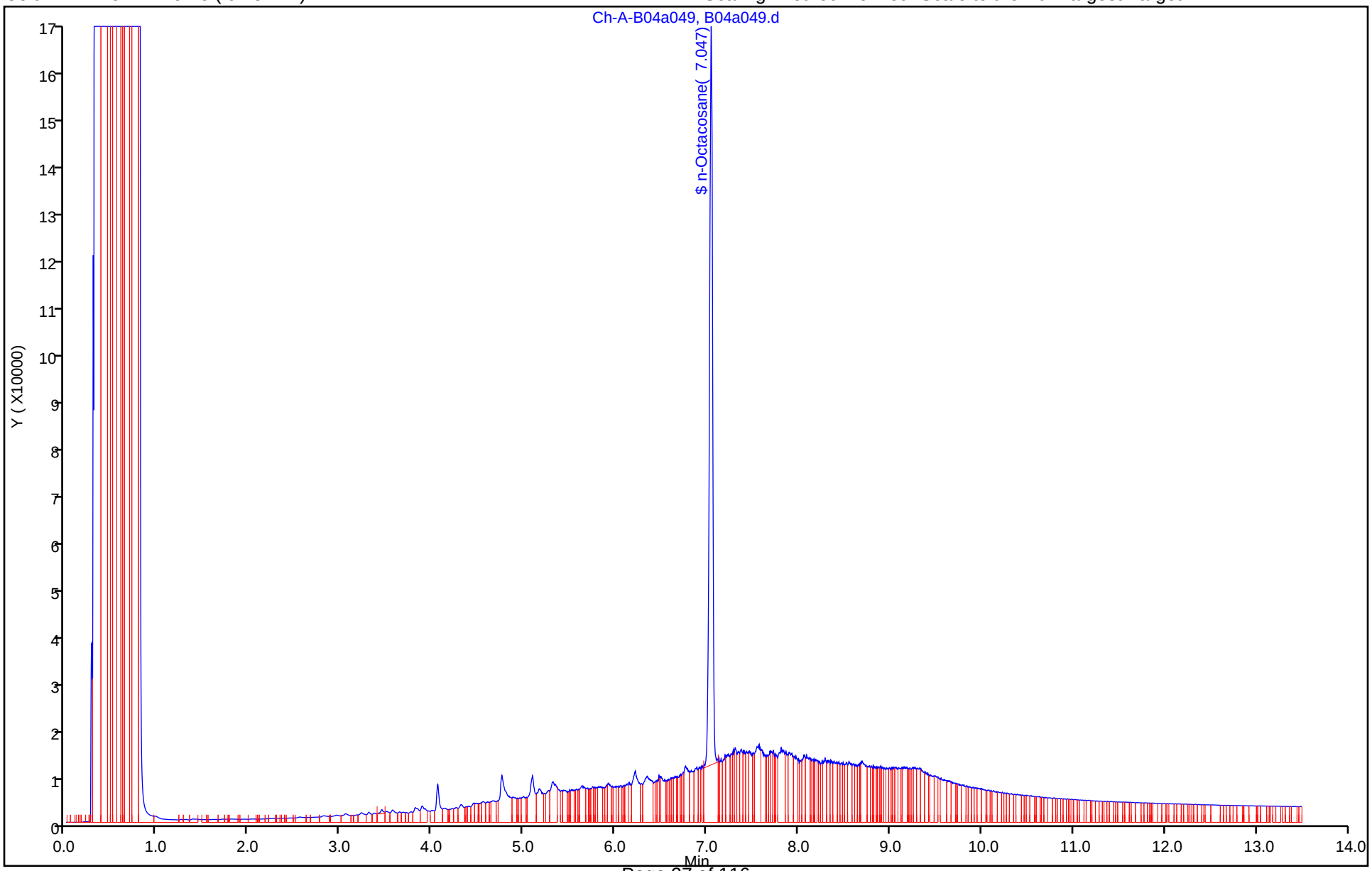
Report Date: 05-Feb-2019 11:28:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a049.d

Injection Date:	05-Feb-2019 05:30:56	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-5-A	Lab Sample ID:	440-91105-5	Worklist Smp#:	49
Client ID:	DG-AW3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a049.d				
Lims ID:	720-91105-E-5-A				
Client ID:	DG-AW3S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 05:30:56	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:28:13	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:28:13

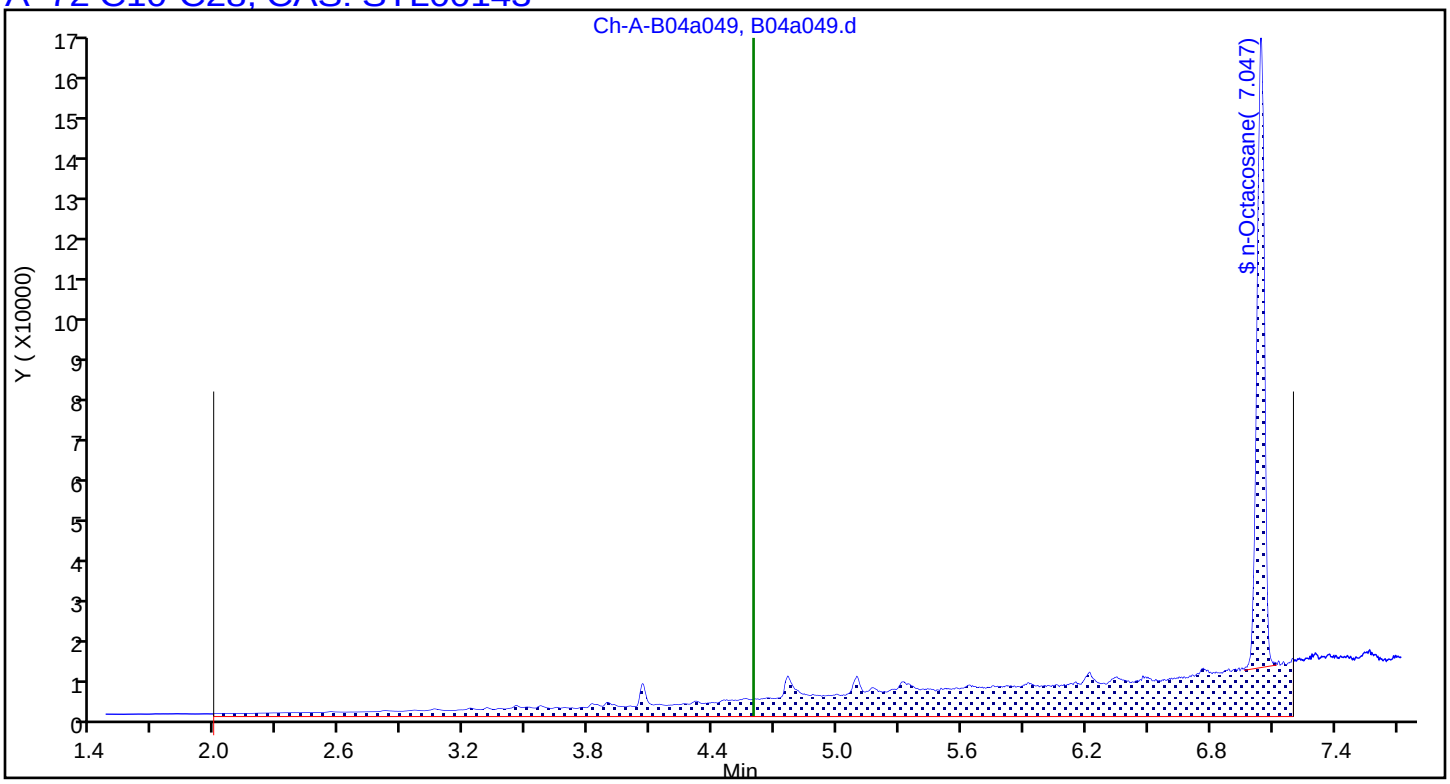
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	95.2	95.22
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:28:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a049.d				
Injection Date:	05-Feb-2019 05:30:56	Instrument ID:	GC70A		
Lims ID:	720-91105-E-5-A	Lab Sample ID:	440-91105-5		
Client ID:	DG-AW3S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

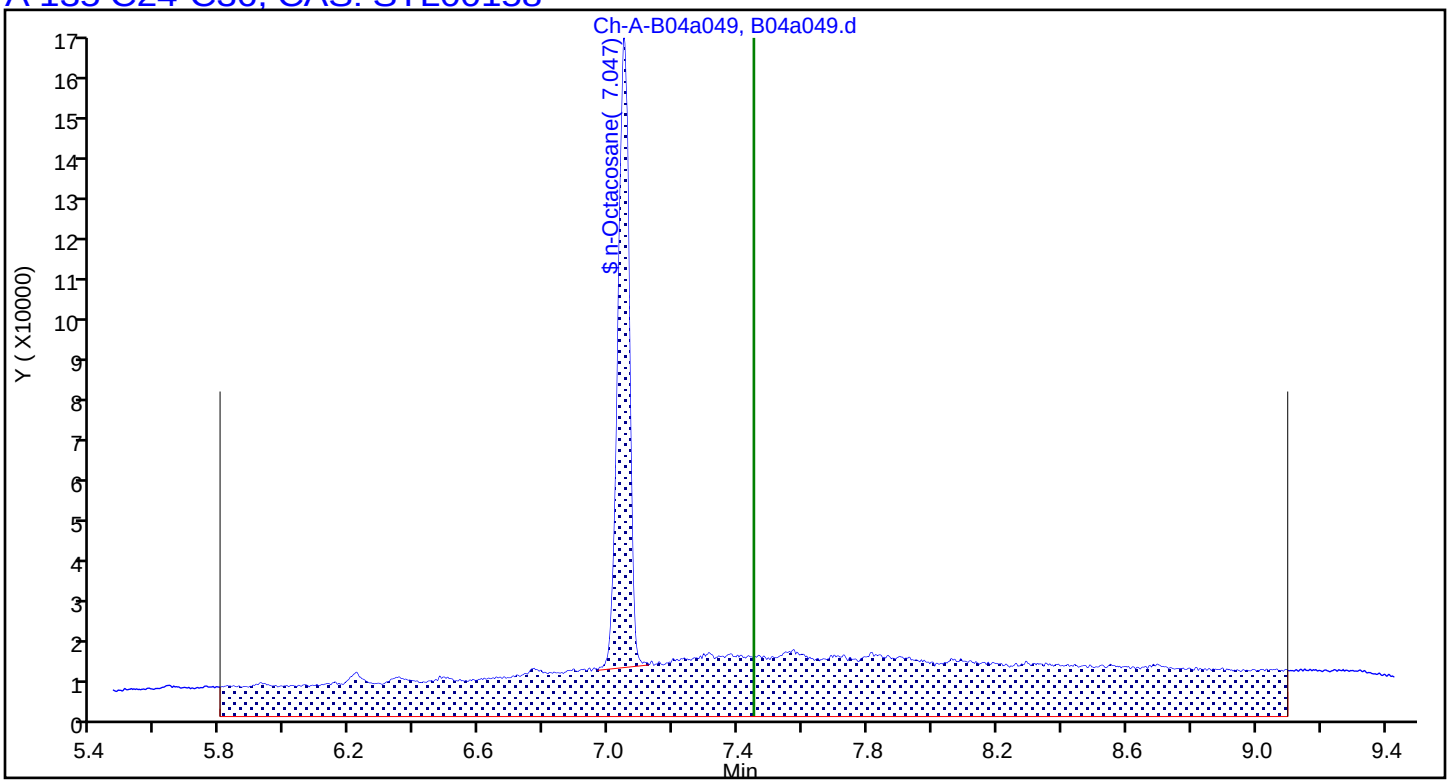


Report Date: 05-Feb-2019 11:28:14 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a049.d				
Injection Date:	05-Feb-2019 05:30:56	Instrument ID:	GC70A		
Lims ID:	720-91105-E-5-A	Lab Sample ID:	440-91105-5		
Client ID:	DG-AW3S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a067.d				
Lims ID:	720-91105-E-6-A				
Client ID:	DG-AY3S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 11:56:35	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 12:20:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 12:20:03		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		924556	255.3	
$ 127 n-Octacosane	7.028	7.022	0.006	624960	169.9	
A 135 C24-C36	7.448	(5.797-9.100)		781414	215.7	

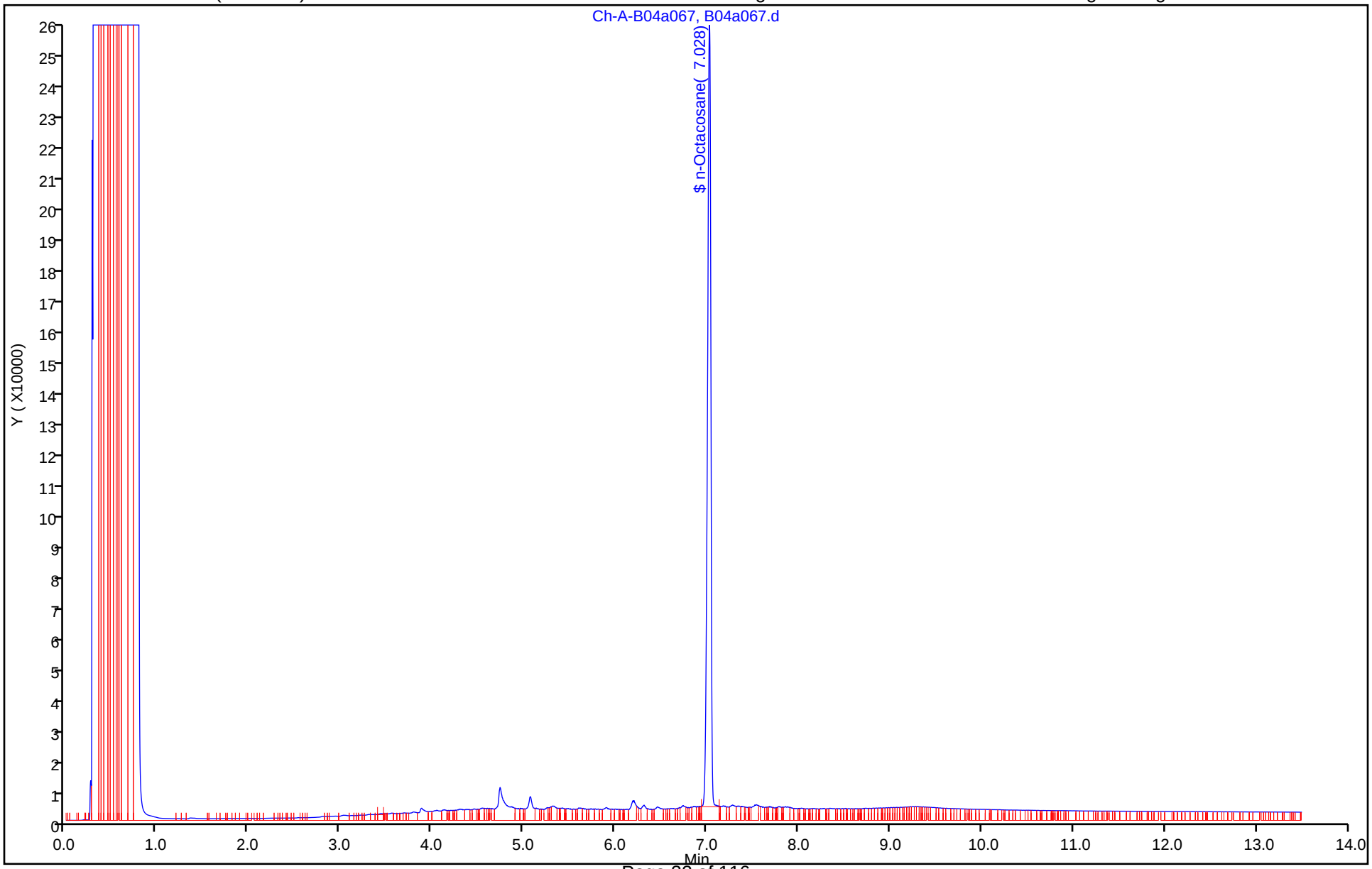
Report Date: 05-Feb-2019 12:20:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a067.d

Injection Date:	05-Feb-2019 11:56:35	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-6-A	Lab Sample ID:	440-91105-6	Worklist Smp#:	67
Client ID:	DG-AY3S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a067.d				
Lims ID:	720-91105-E-6-A				
Client ID:	DG-AY3S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 11:56:35	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 12:20:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 12:20:03

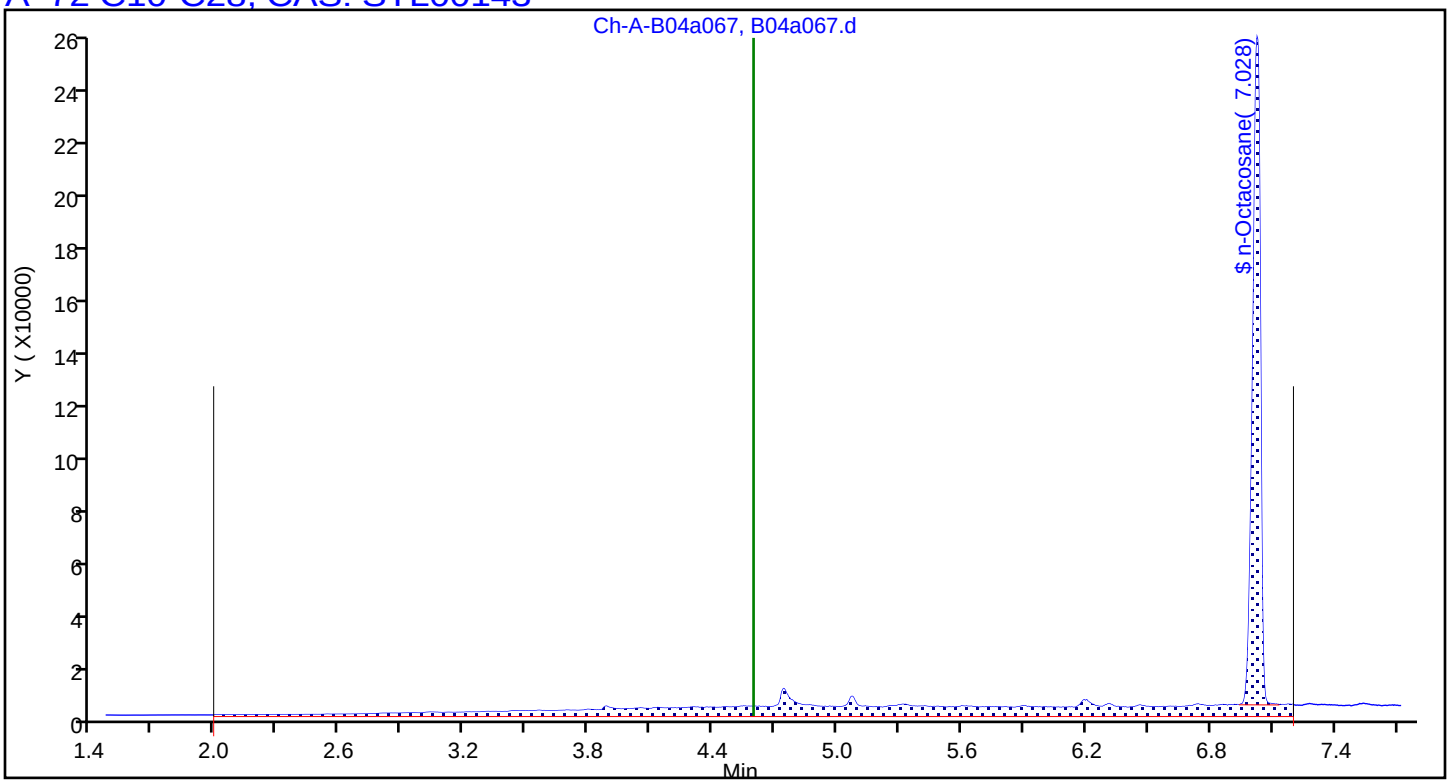
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	169.9	84.94
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 12:20:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a067.d				
Injection Date:	05-Feb-2019 11:56:35	Instrument ID:	GC70A		
Lims ID:	720-91105-E-6-A	Lab Sample ID:	440-91105-6		
Client ID:	DG-AY3S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



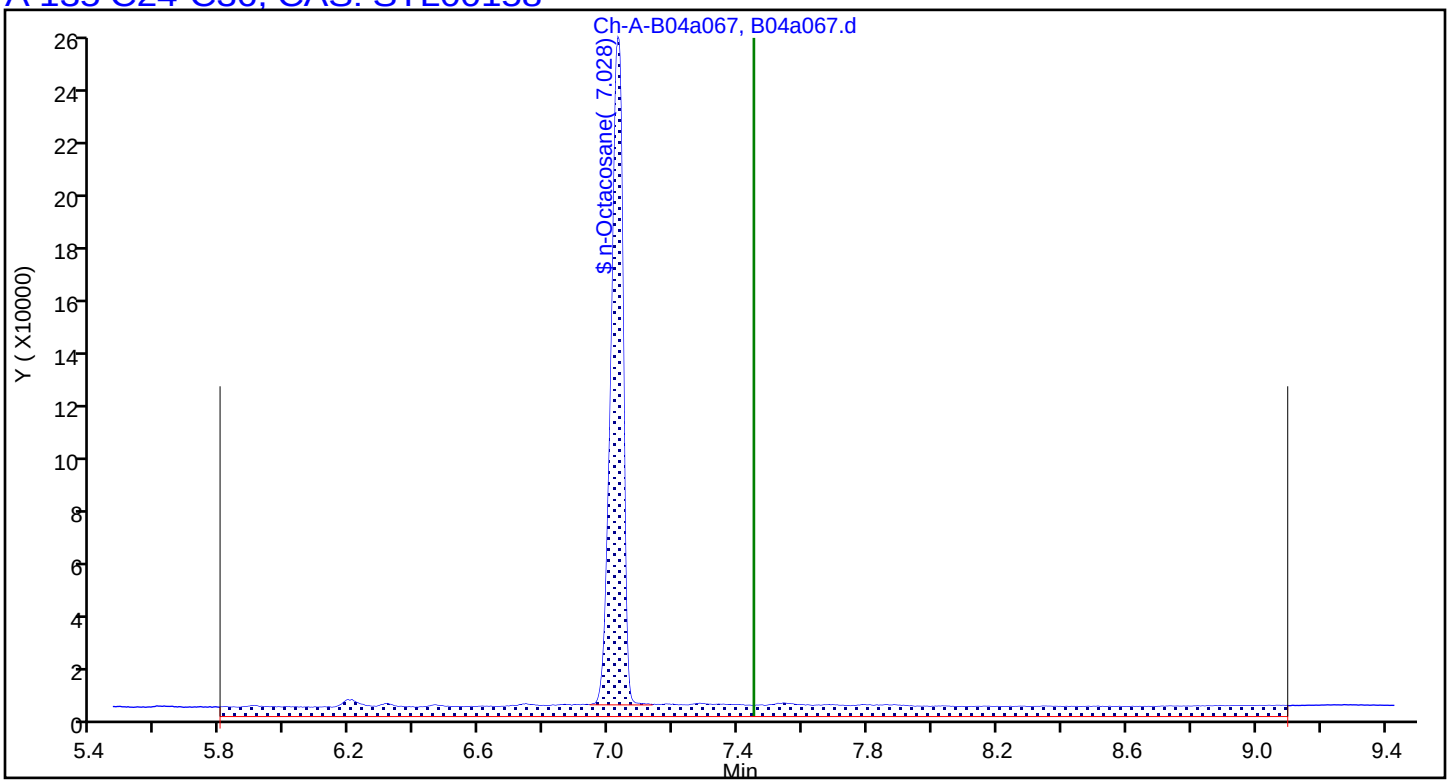
Report Date: 05-Feb-2019 12:20:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a067.d

Injection Date:	05-Feb-2019 11:56:35	Instrument ID:	GC70A		
Lims ID:	720-91105-E-6-A	Lab Sample ID:	440-91105-6		
Client ID:	DG-AY3S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a053.d				
Lims ID:	720-91105-E-7-A				
Client ID:	DG-AY3S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 06:56:26	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:29:24	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:29:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		3595310	992.6	
$ 127 n-Octacosane	7.033	7.022	0.011	334937	91.0	
A 135 C24-C36	7.448	(5.797-9.100)		4686366	1293.8	

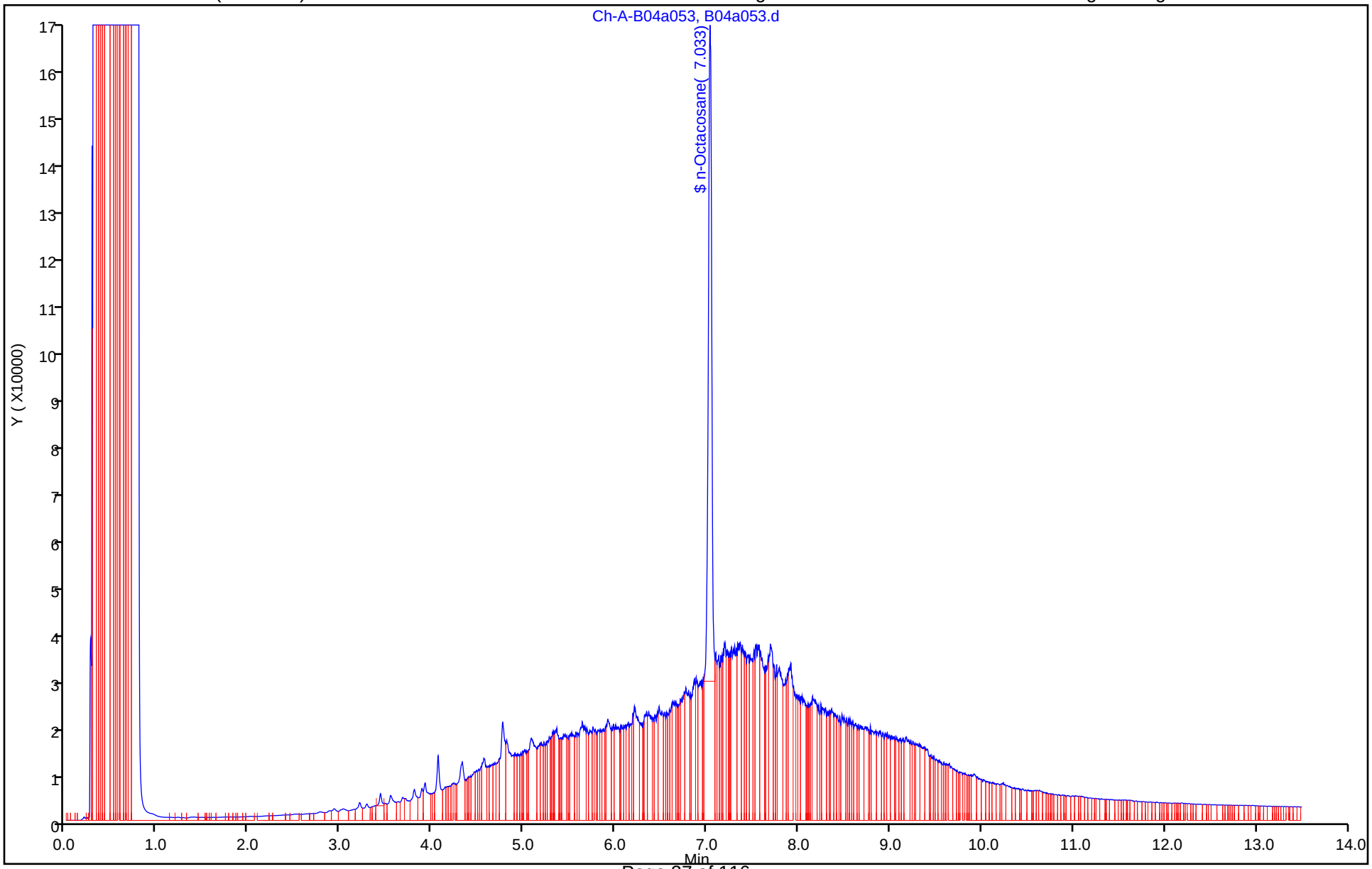
Report Date: 05-Feb-2019 11:29:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a053.d

Injection Date:	05-Feb-2019 06:56:26	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-7-A	Lab Sample ID:	440-91105-7	Worklist Smp#:	53
Client ID:	DG-AY3S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a053.d				
Lims ID:	720-91105-E-7-A				
Client ID:	DG-AY3S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 06:56:26	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:29:24	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:29:24

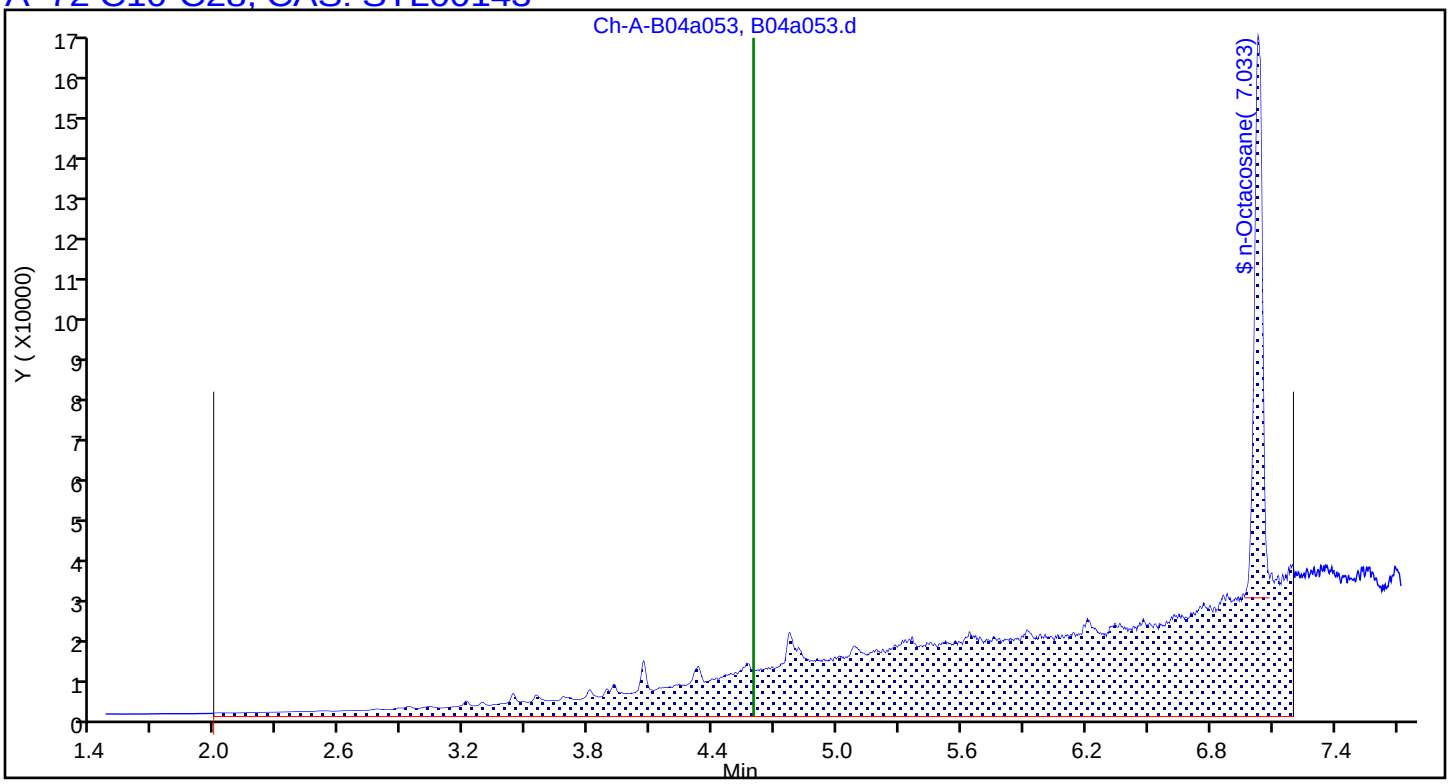
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	91.0	91.04
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:29:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a053.d				
Injection Date:	05-Feb-2019 06:56:26	Instrument ID:	GC70A		
Lims ID:	720-91105-E-7-A	Lab Sample ID:	440-91105-7		
Client ID:	DG-AY3S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

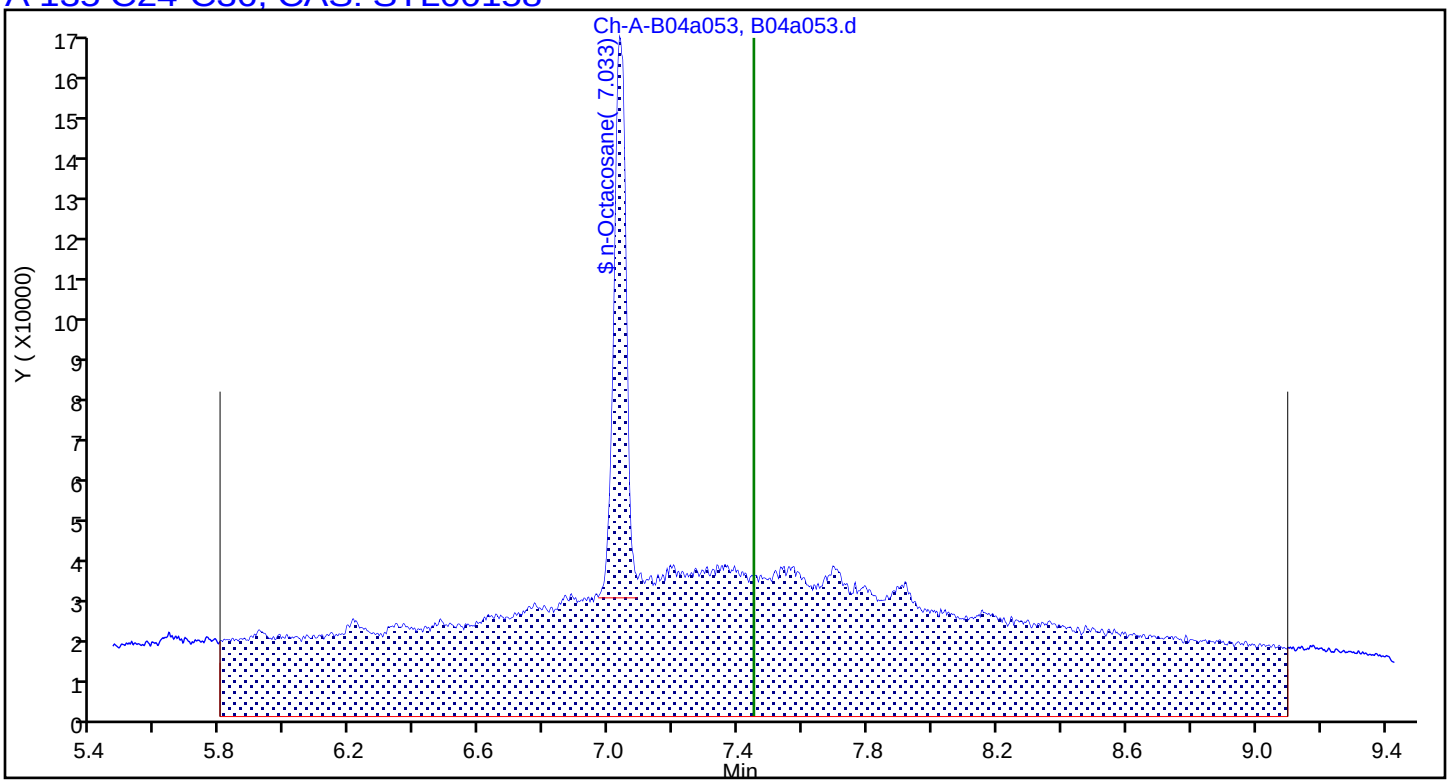


Report Date: 05-Feb-2019 11:29:25 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a053.d				
Injection Date:	05-Feb-2019 06:56:26	Instrument ID:	GC70A		
Lims ID:	720-91105-E-7-A	Lab Sample ID:	440-91105-7		
Client ID:	DG-AY3S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a054.d				
Lims ID:	720-91105-E-8-A				
Client ID:	DG-Y15S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 07:17:54	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:30:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:30:03		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		16766159	4628.8	
$ 127 n-Octacosane	7.077	7.022	0.055	333363	90.6	a
A 135 C24-C36	7.448	(5.797-9.100)		23395372	6459.0	

QC Flag Legend

Review Flags
a - User Assigned ID

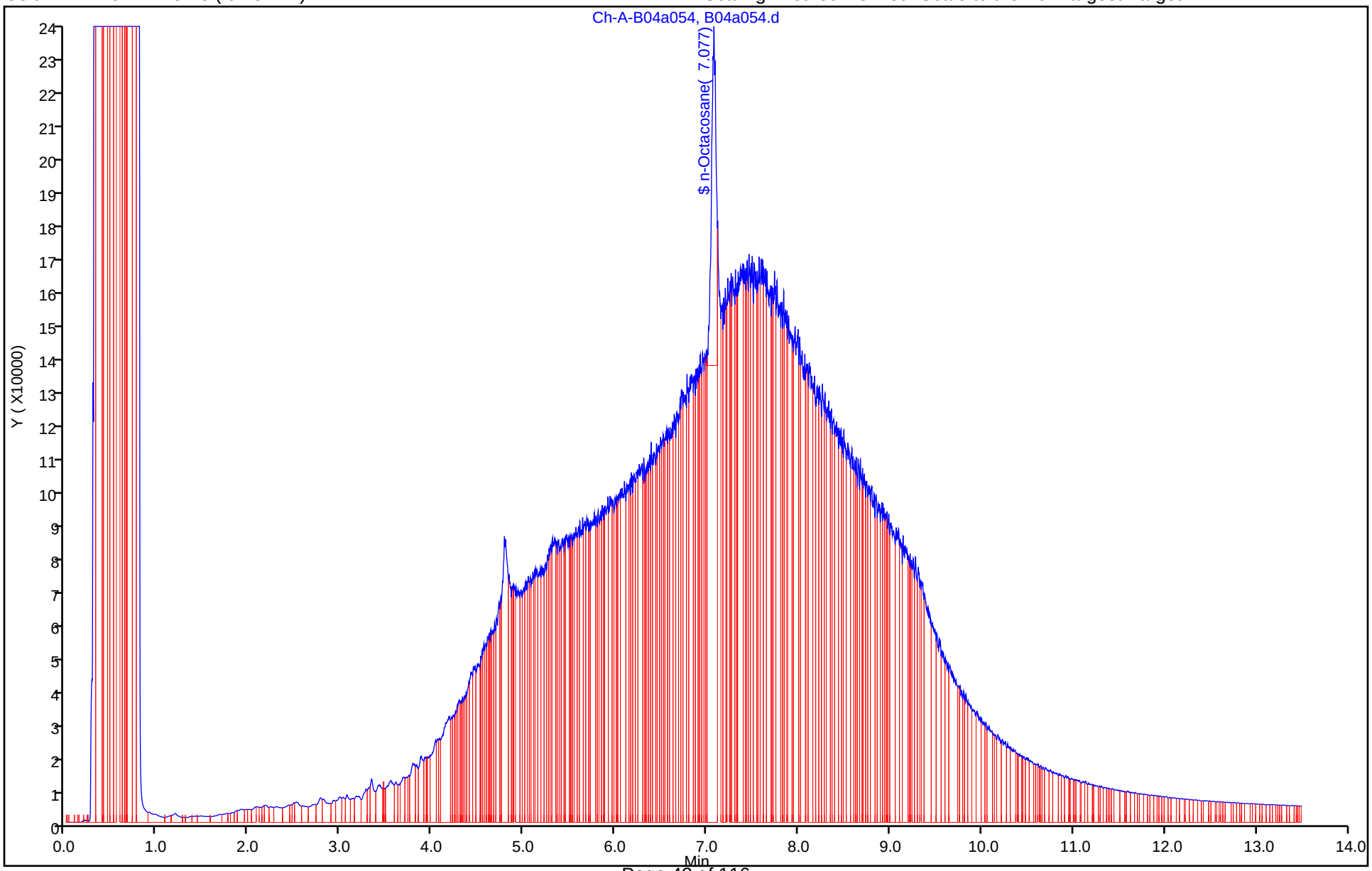
Report Date: 05-Feb-2019 11:30:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a054.d

Injection Date:	05-Feb-2019 07:17:54	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-8-A	Lab Sample ID:	440-91105-8	Worklist Smp#:	54
Client ID:	DG-Y15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a054.d				
Lims ID:	720-91105-E-8-A				
Client ID:	DG-Y15S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 07:17:54	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:30:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:30:03

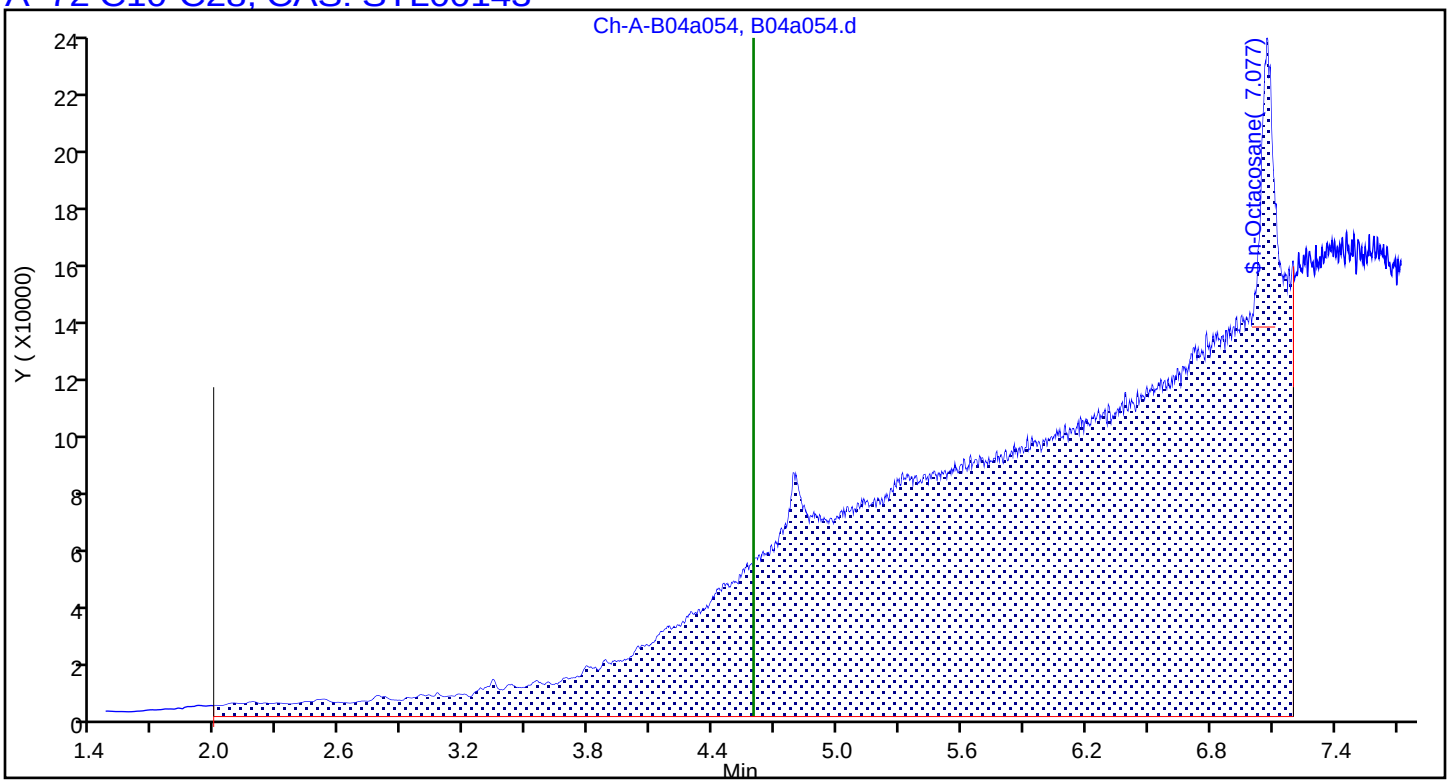
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	90.6	90.62
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:30:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a054.d				
Injection Date:	05-Feb-2019 07:17:54	Instrument ID:	GC70A		
Lims ID:	720-91105-E-8-A	Lab Sample ID:	440-91105-8		
Client ID:	DG-Y15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

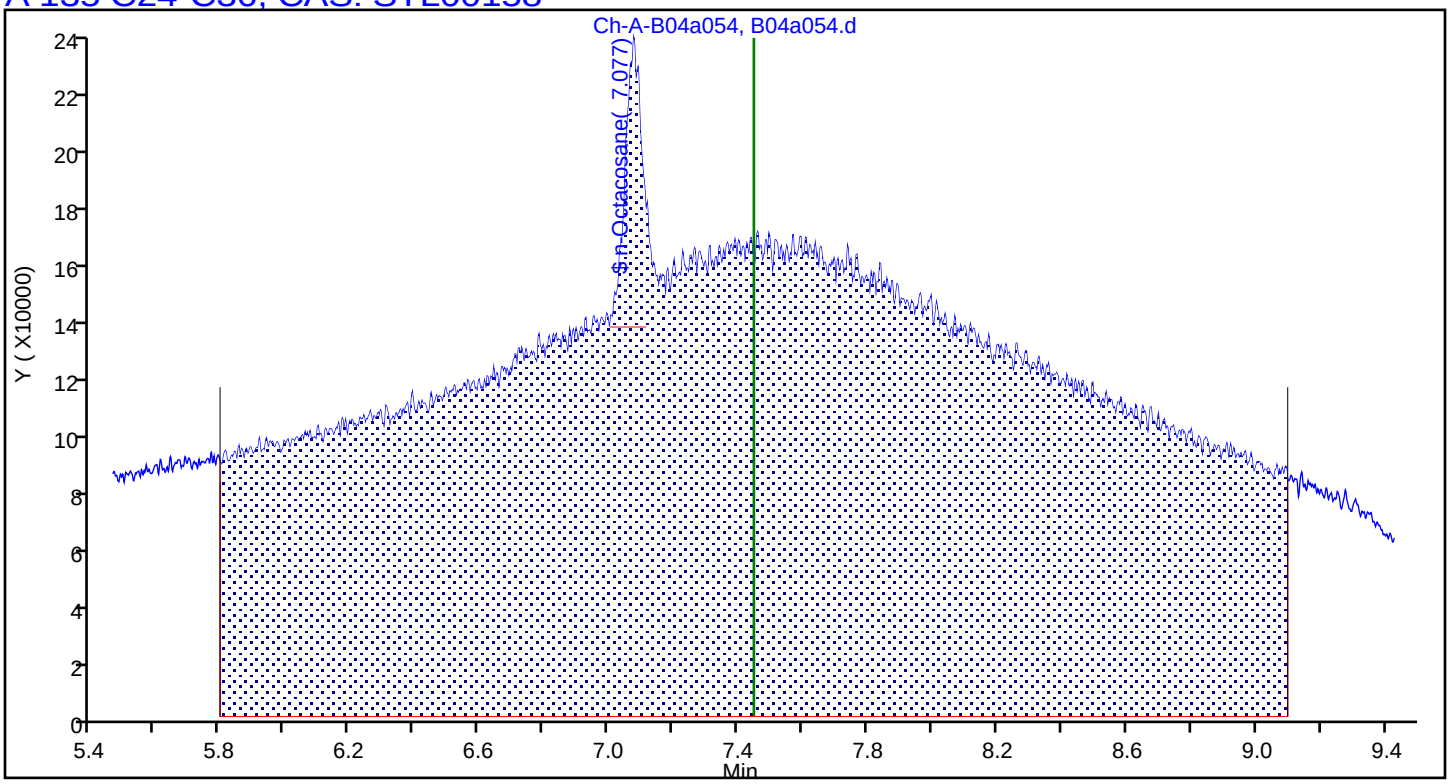


Report Date: 05-Feb-2019 11:30:05 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a054.d				
Injection Date:	05-Feb-2019 07:17:54	Instrument ID:	GC70A		
Lims ID:	720-91105-E-8-A	Lab Sample ID:	440-91105-8		
Client ID:	DG-Y15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Irvine

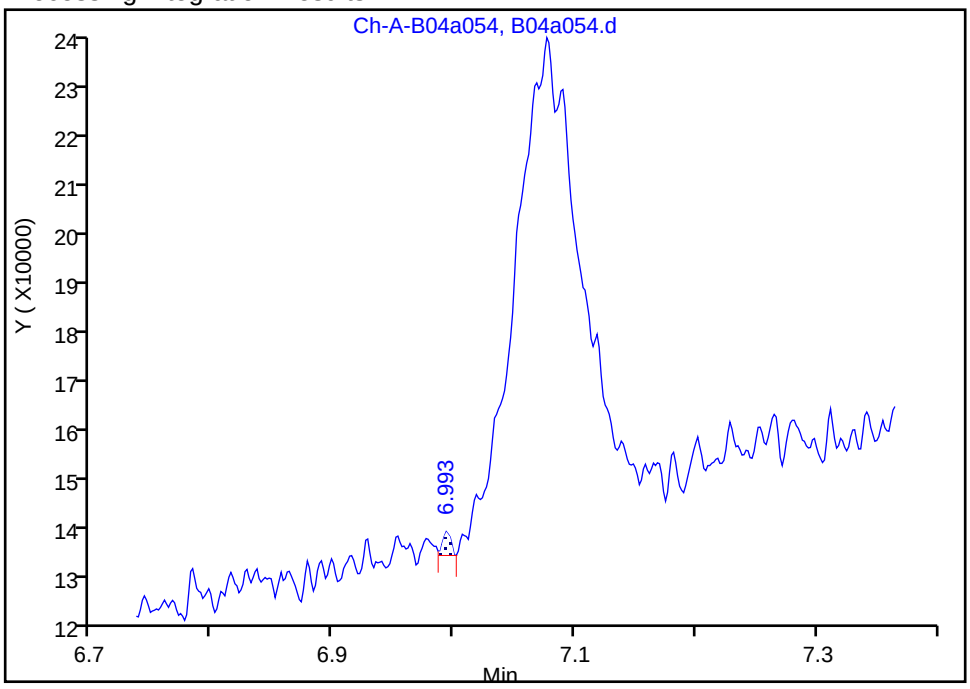
Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a054.d				
Injection Date:	05-Feb-2019 07:17:54	Instrument ID:	GC70A		
Lims ID:	720-91105-E-8-A	Lab Sample ID:	440-91105-8		
Client ID:	DG-Y15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

$ 127 n-Octacosane, CAS: 630-02-4

Signal: 1

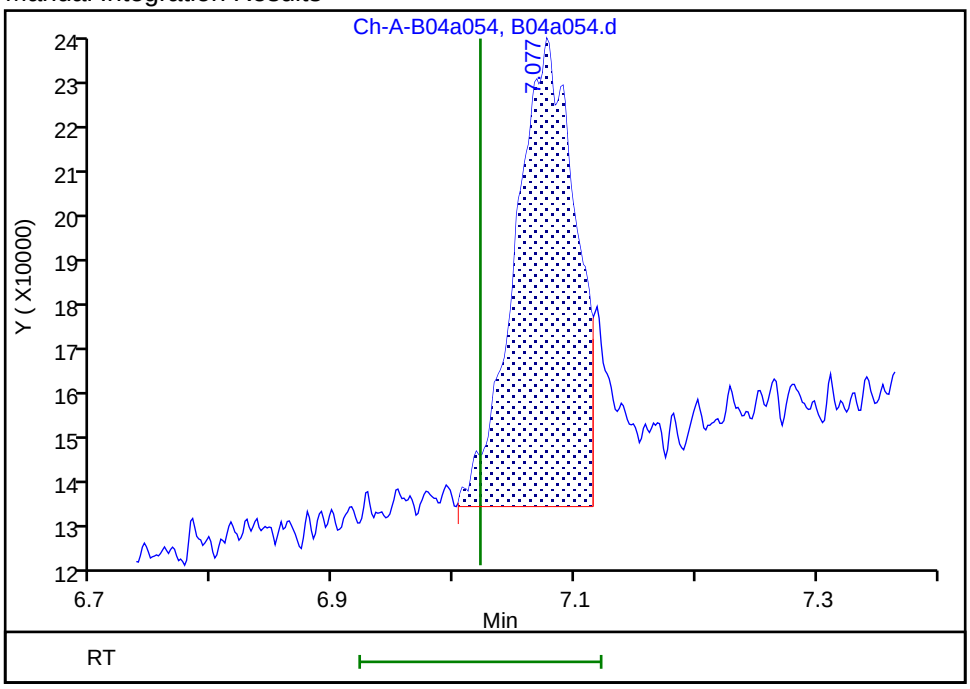
Processing Integration Results

RT: 6.99
Area: 2073
Amount: 0.563488
Amount Units: ug/ml



Manual Integration Results

RT: 7.08
Area: 333363
Amount: 90.615572
Amount Units: ug/ml



Reviewer: doanm, 05-Feb-2019 11:29:46
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a055.d				
Lims ID:	720-91105-E-9-A				
Client ID:	DG-Y15S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 07:39:21	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:35:55	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:35:55		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		4998354	1379.9	
$ 127 n-Octacosane	7.060	7.022	0.038	344935	93.8	a
A 135 C24-C36	7.448	(5.797-9.100)		7381103	2037.8	

QC Flag Legend

Review Flags
a - User Assigned ID

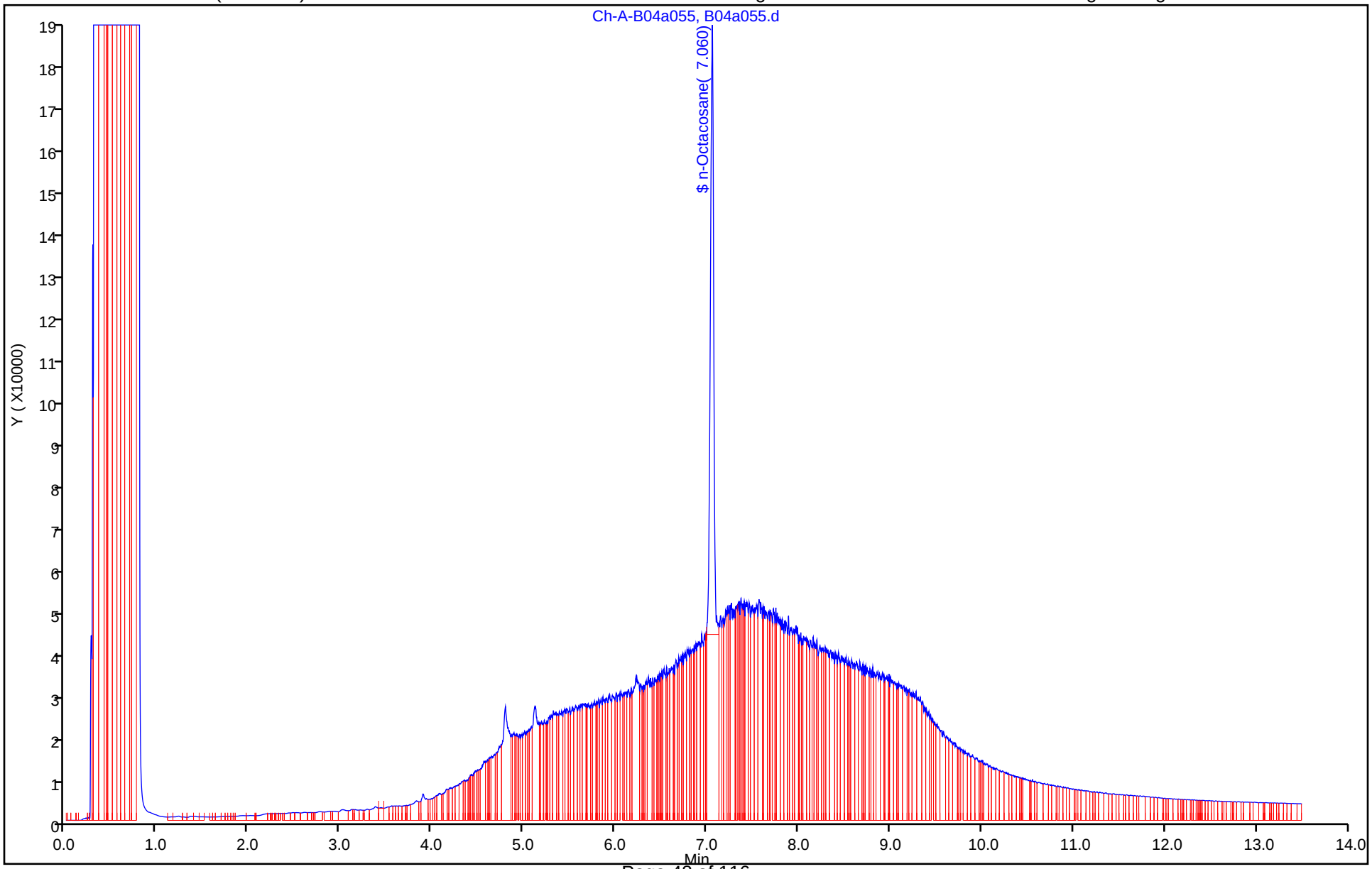
Report Date: 05-Feb-2019 11:35:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a055.d

Injection Date:	05-Feb-2019 07:39:21	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-9-A	Lab Sample ID:	440-91105-9	Worklist Smp#:	55
Client ID:	DG-Y15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a055.d				
Lims ID:	720-91105-E-9-A				
Client ID:	DG-Y15S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 07:39:21	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:35:55	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:35:55

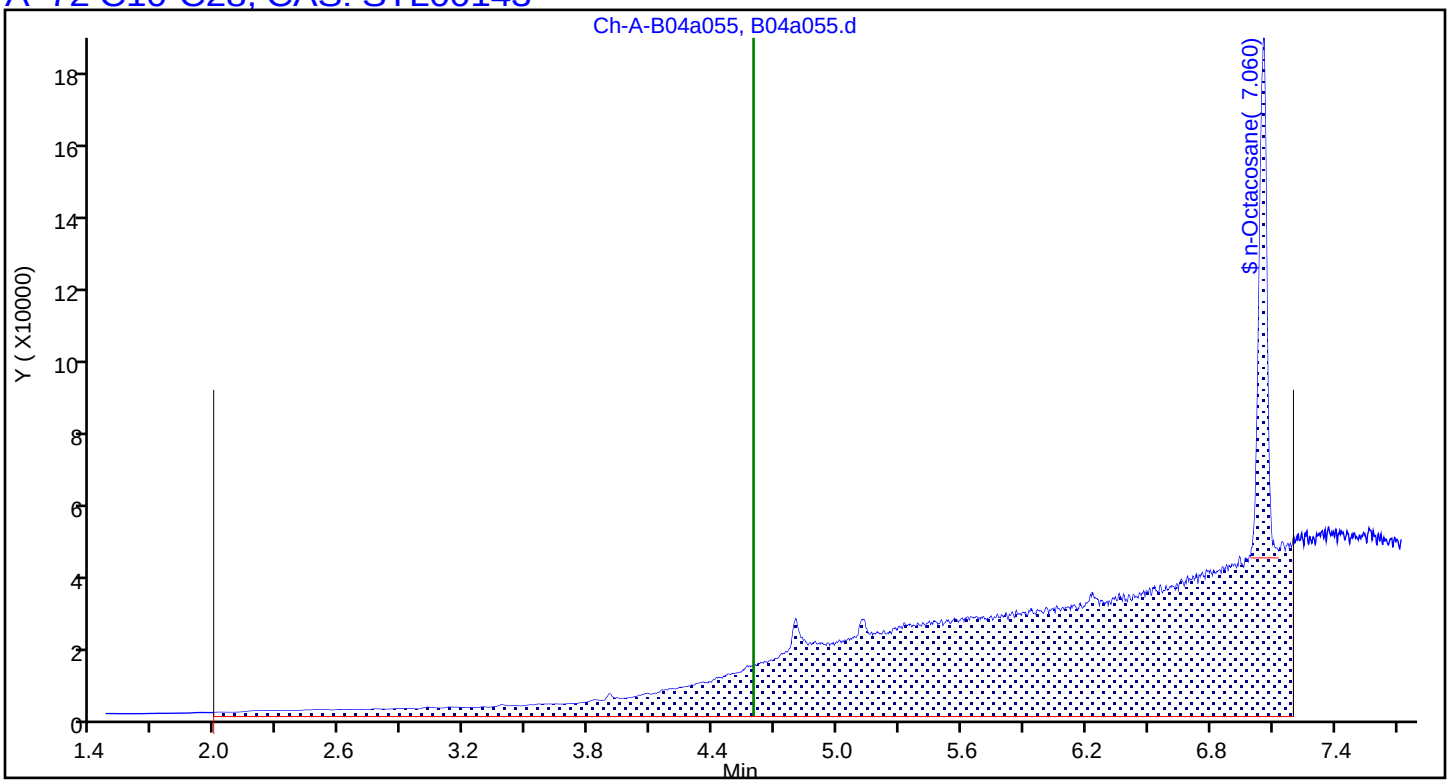
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	93.8	93.76
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:35:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a055.d				
Injection Date:	05-Feb-2019 07:39:21	Instrument ID:	GC70A		
Lims ID:	720-91105-E-9-A	Lab Sample ID:	440-91105-9		
Client ID:	DG-Y15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

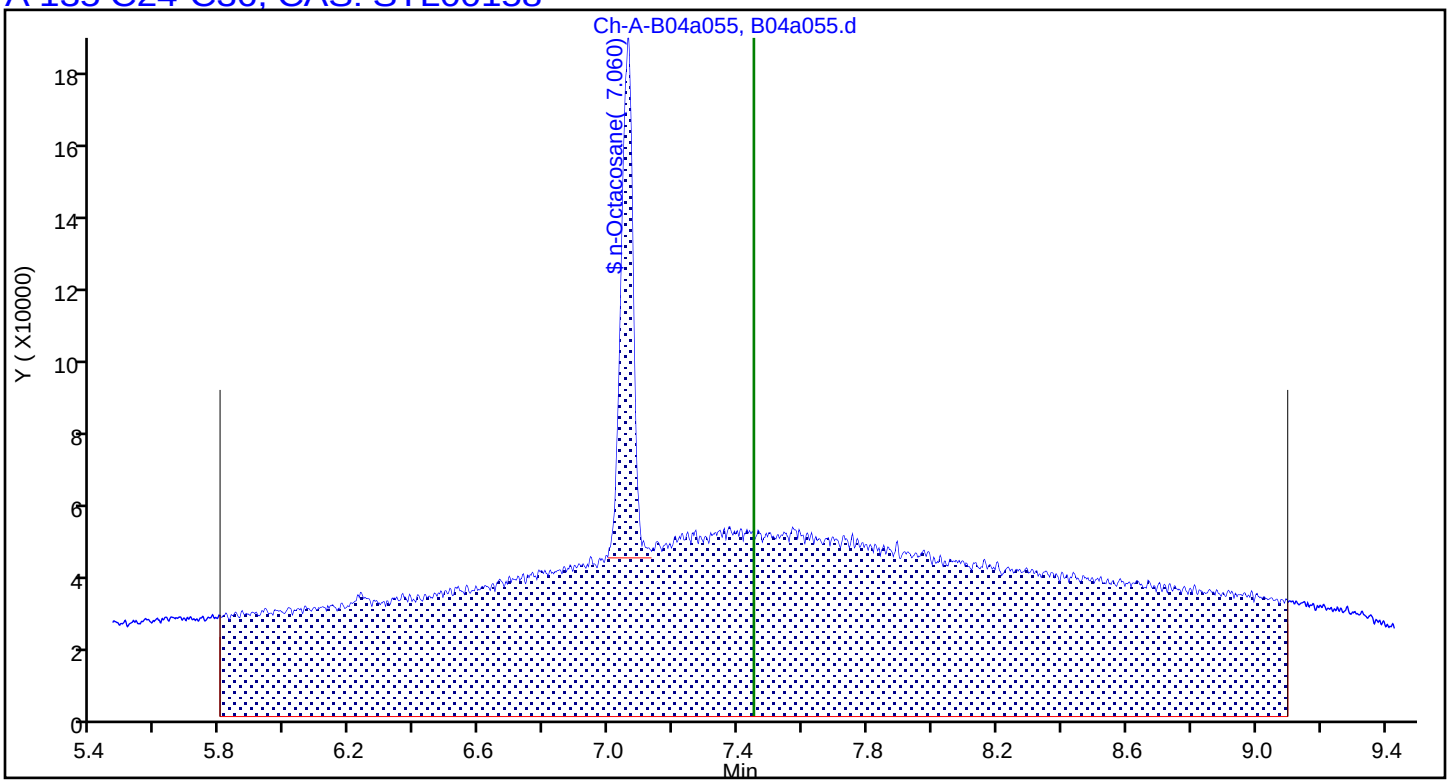


Report Date: 05-Feb-2019 11:35:56 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a055.d				
Injection Date:	05-Feb-2019 07:39:21	Instrument ID:	GC70A		
Lims ID:	720-91105-E-9-A	Lab Sample ID:	440-91105-9		
Client ID:	DG-Y15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Irvine

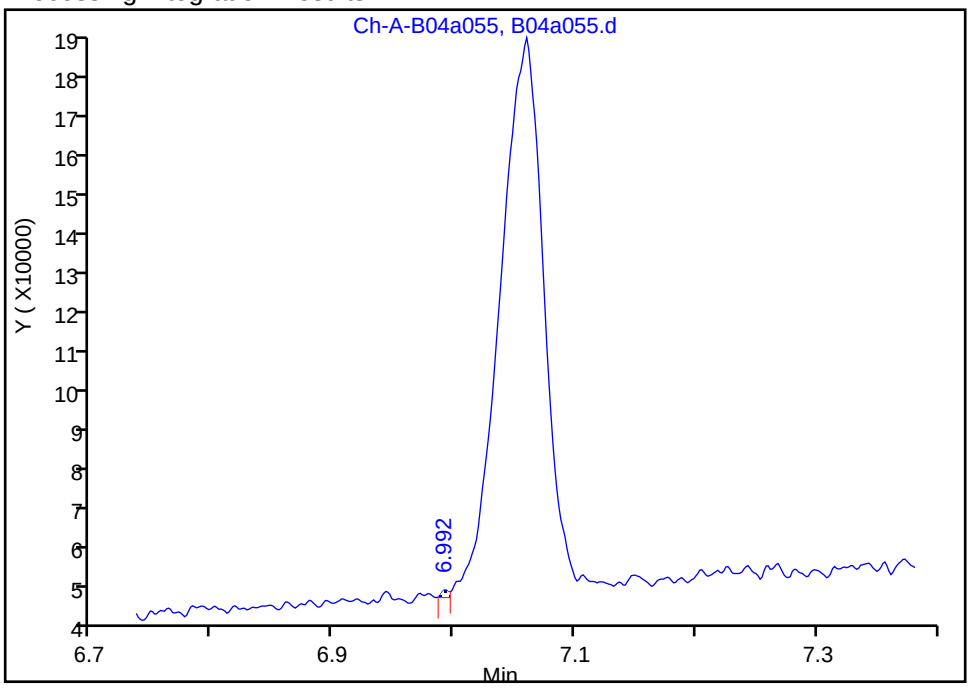
Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a055.d				
Injection Date:	05-Feb-2019 07:39:21	Instrument ID:	GC70A		
Lims ID:	720-91105-E-9-A	Lab Sample ID:	440-91105-9		
Client ID:	DG-Y15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

$ 127 n-Octacosane, CAS: 630-02-4

Signal: 1

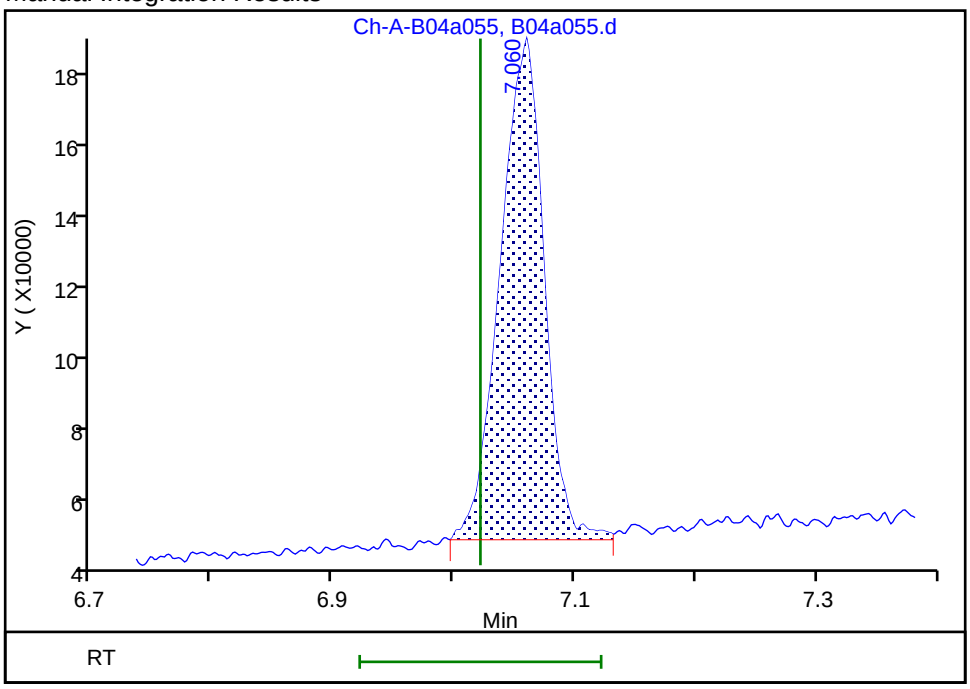
Processing Integration Results

RT: 6.99
Area: 804
Amount: 0.218545
Amount Units: ug/ml



Manual Integration Results

RT: 7.06
Area: 344935
Amount: 93.761102
Amount Units: ug/ml



Reviewer: doanm, 05-Feb-2019 11:35:50
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a057.d				
Lims ID:	720-91105-E-10-A				
Client ID:	DG-Y15S-7.5-8				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 08:22:22	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 13:02:19	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:31:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		29718990	8204.8	E
$ 127 n-Octacosane	7.068	7.022	0.046	396286	107.7	
A 135 C24-C36	7.448	(5.797-9.100)		14392612	3973.5	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

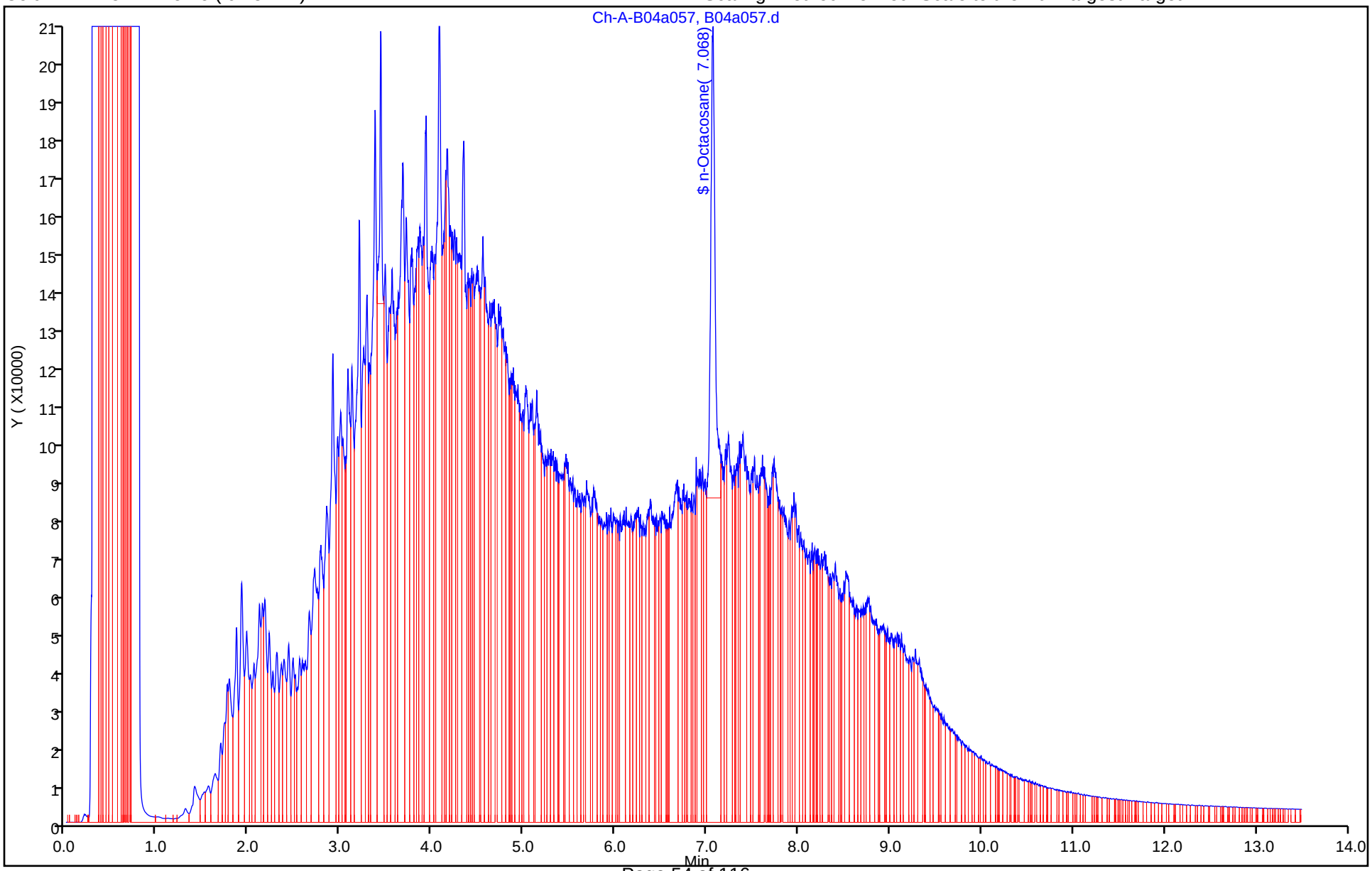
Report Date: 05-Feb-2019 16:59:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a057.d

Injection Date:	05-Feb-2019 08:22:22	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-10-A	Lab Sample ID:	440-91105-10	Worklist Smp#:	57
Client ID:	DG-Y15S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a057.d				
Lims ID:	720-91105-E-10-A				
Client ID:	DG-Y15S-7.5-8				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 08:22:22	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 13:02:19	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				

First Level Reviewer: doanm Date: 05-Feb-2019 11:31:24

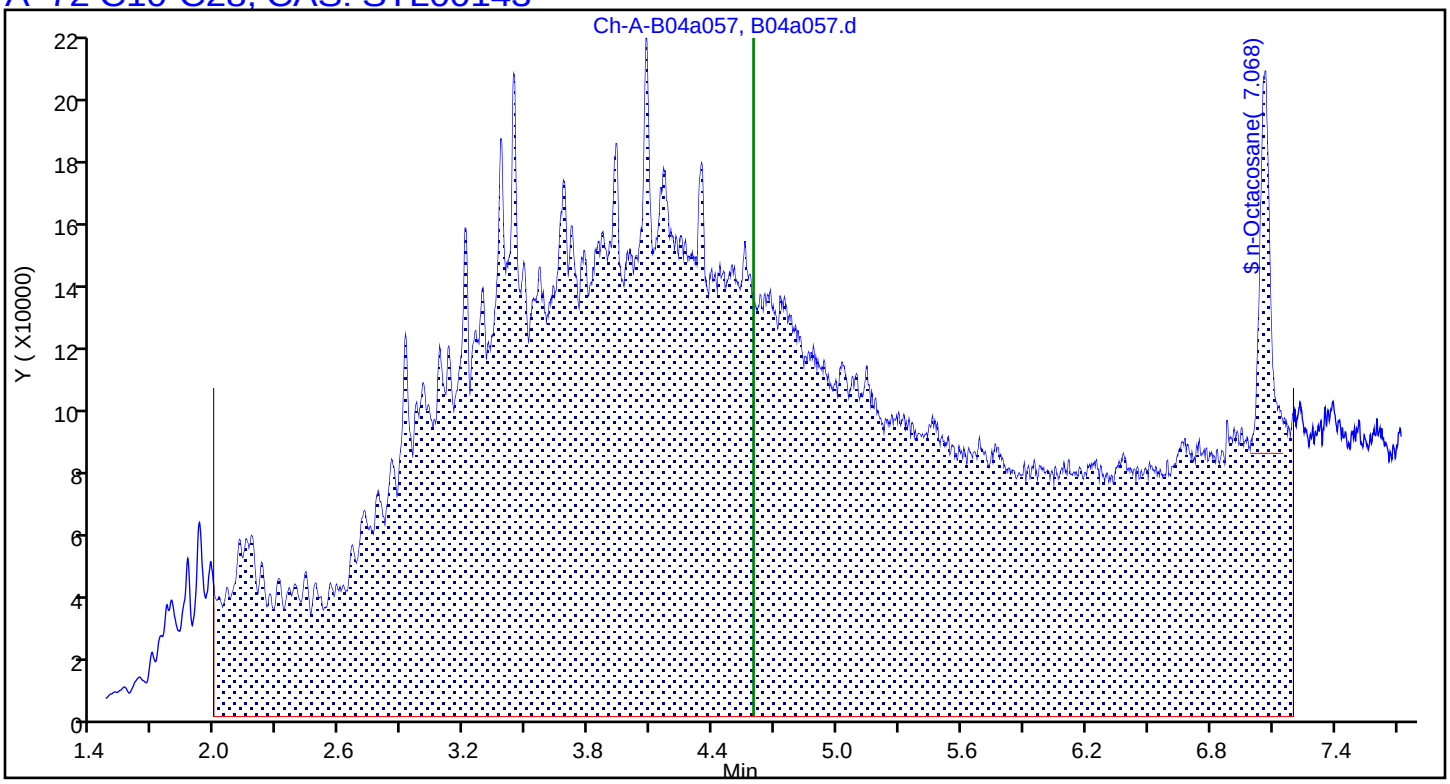
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	107.7	107.72
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 16:59:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a057.d				
Injection Date:	05-Feb-2019 08:22:22	Instrument ID:	GC70A		
Lims ID:	720-91105-E-10-A	Lab Sample ID:	440-91105-10		
Client ID:	DG-Y15S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



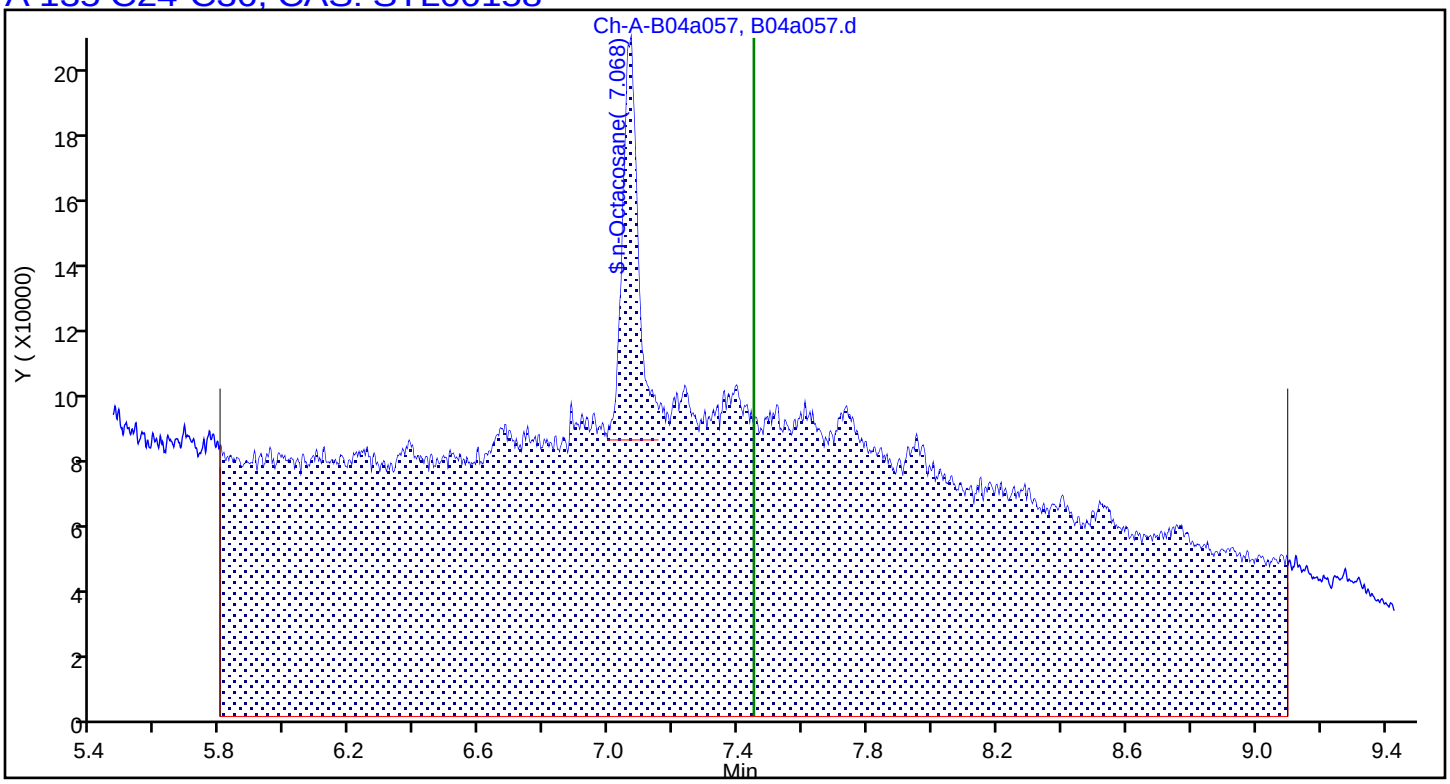
Report Date: 05-Feb-2019 16:59:15 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a057.d

Injection Date:	05-Feb-2019 08:22:22	Instrument ID:	GC70A		
Lims ID:	720-91105-E-10-A	Lab Sample ID:	440-91105-10		
Client ID:	DG-Y15S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a060.d				
Lims ID:	720-91105-E-10-A				
Client ID:	DG-Y15S-7.5-8				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 11:19:55	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 11:46:44	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0323				
First Level Reviewer: doanm		Date:	06-Feb-2019 11:46:44		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.982-7.193)		6415916	1771.3	
$ 127 n-Octacosane	7.013	7.027	-0.014	73823	20.1	
A 135 C24-C36	7.468	(5.837-9.098)		3547761	979.5	

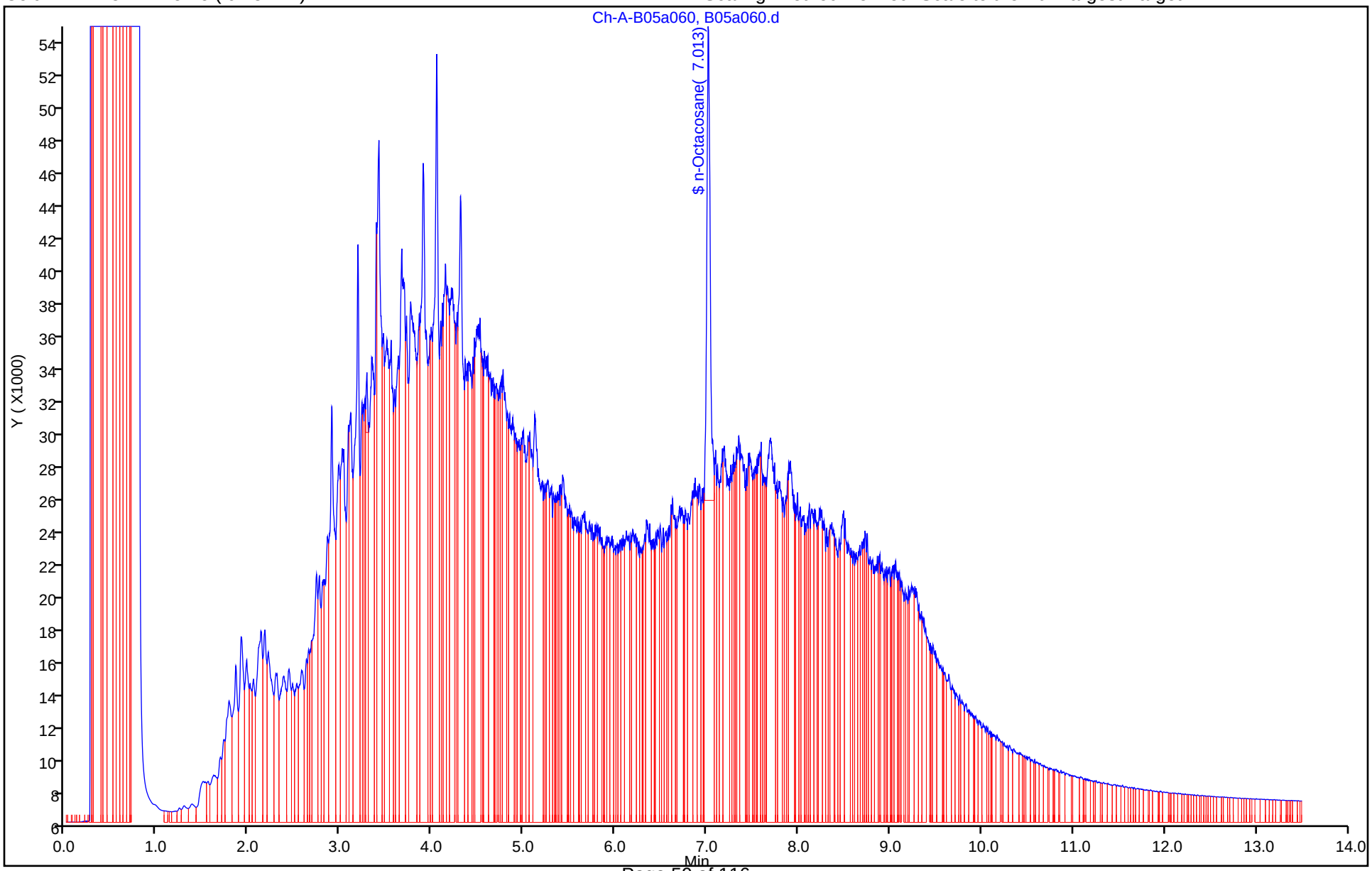
Report Date: 06-Feb-2019 11:46:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a060.d

Injection Date:	06-Feb-2019 11:19:55	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-10-A	Lab Sample ID:	440-91105-10	Worklist Smp#:	51
Client ID:	DG-Y15S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a060.d				
Lims ID:	720-91105-E-10-A				
Client ID:	DG-Y15S-7.5-8				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 11:19:55	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 11:46:44	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0323				

First Level Reviewer: doanm Date: 06-Feb-2019 11:46:44

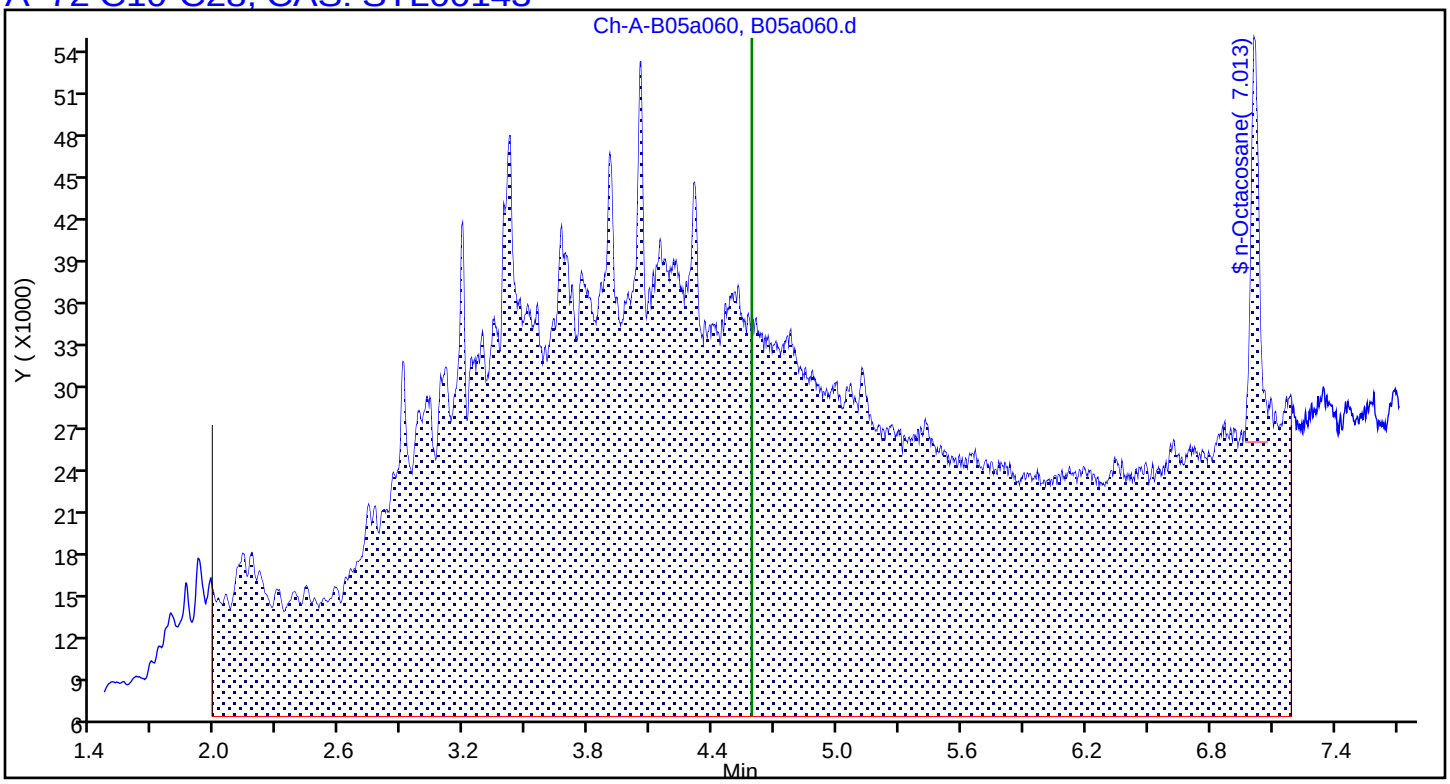
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	20.1	100.33
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 11:46:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a060.d				
Injection Date:	06-Feb-2019 11:19:55	Instrument ID:	GC70A		
Lims ID:	720-91105-E-10-A	Lab Sample ID:	440-91105-10		
Client ID:	DG-Y15S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

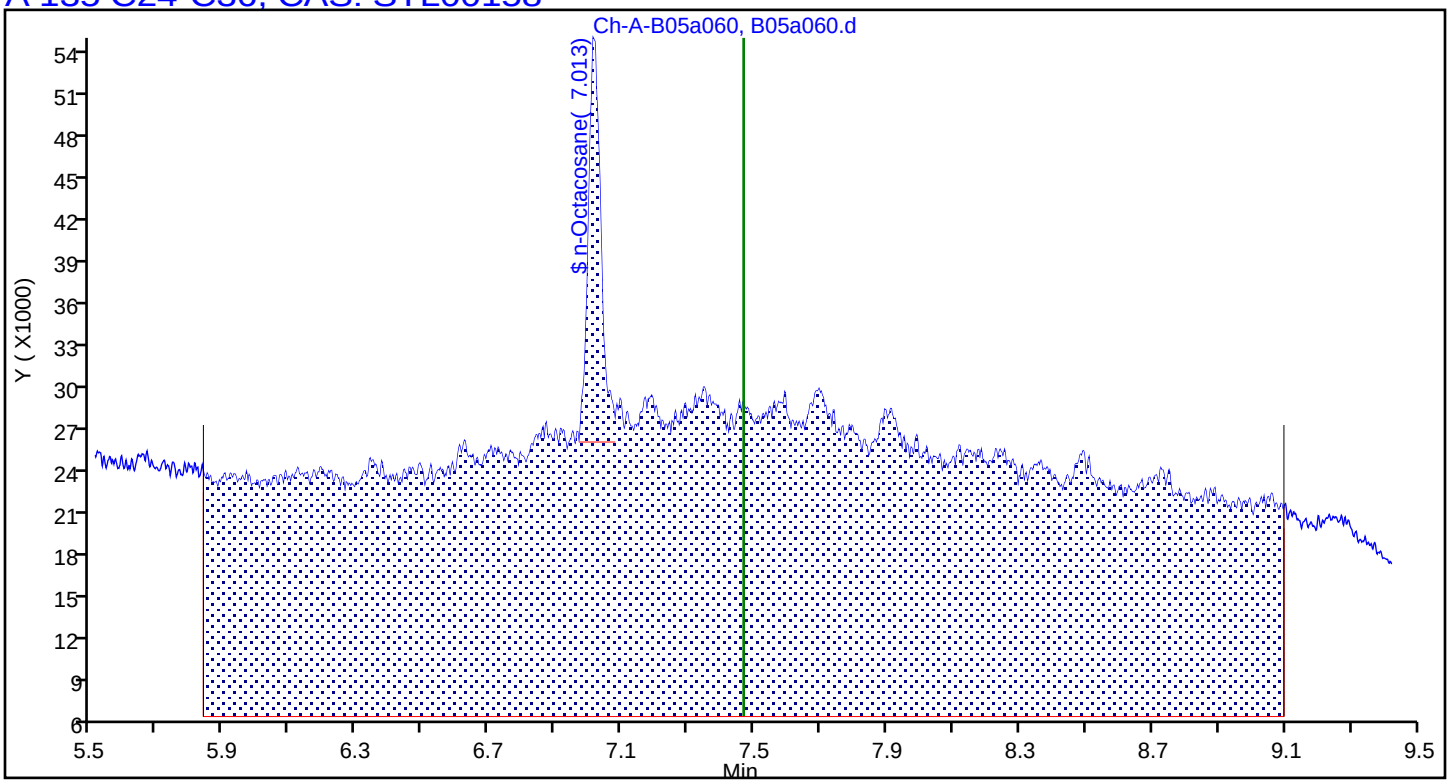


Report Date: 06-Feb-2019 11:46:45 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a060.d				
Injection Date:	06-Feb-2019 11:19:55	Instrument ID:	GC70A		
Lims ID:	720-91105-E-10-A	Lab Sample ID:	440-91105-10		
Client ID:	DG-Y15S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a058.d				
Lims ID:	720-91105-E-11-A				
Client ID:	DG-AC15S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 08:43:40	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:32:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:32:03		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		8911233	2460.2	
$ 127 n-Octacosane	7.057	7.022	0.035	364867	99.2	a
A 135 C24-C36	7.448	(5.797-9.100)		13343807	3684.0	

QC Flag Legend

Review Flags
a - User Assigned ID

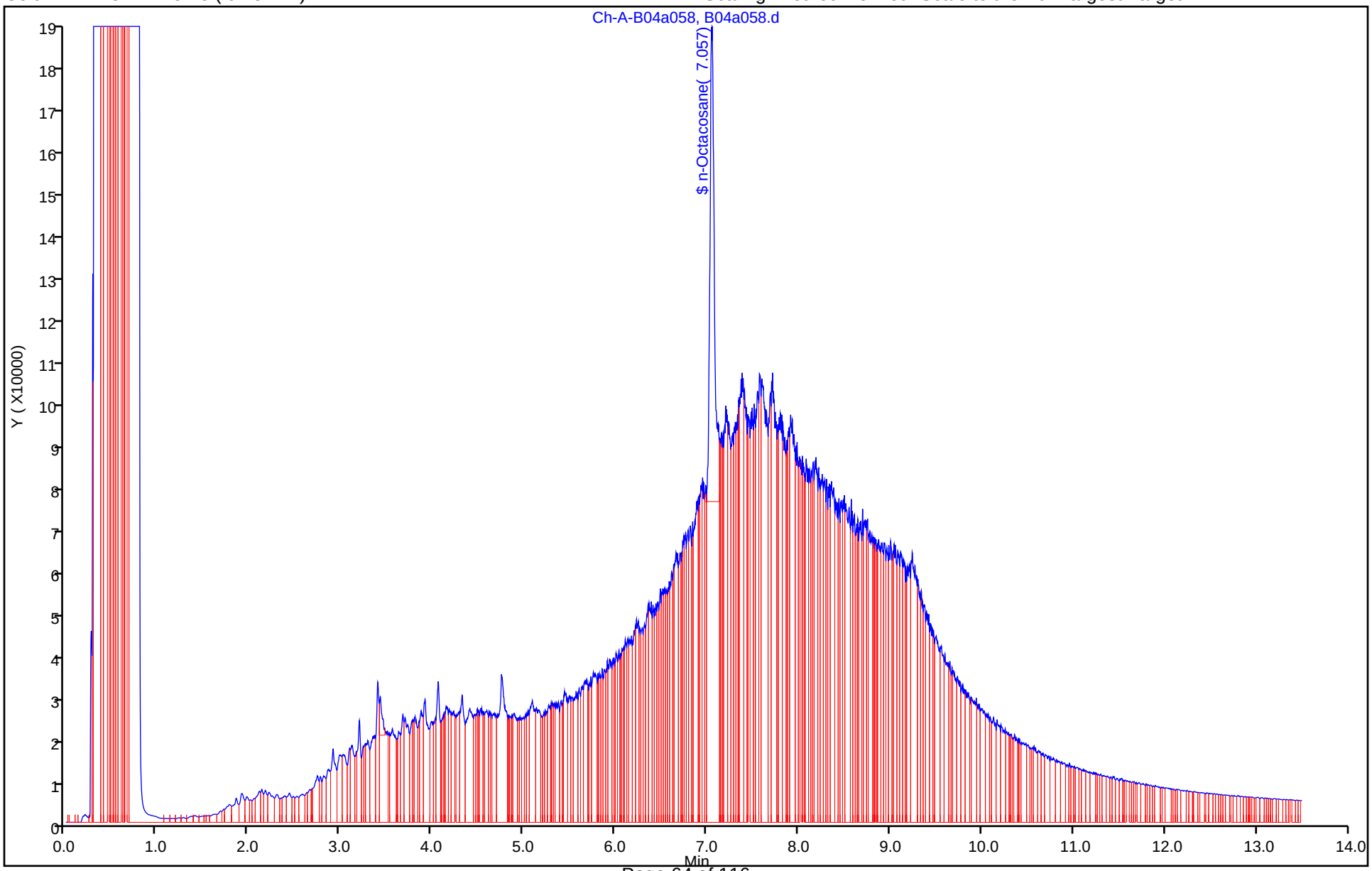
Report Date: 05-Feb-2019 11:32:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a058.d

Injection Date:	05-Feb-2019 08:43:40	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-11-A	Lab Sample ID:	440-91105-11	Worklist Smp#:	58
Client ID:	DG-AC15S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a058.d				
Lims ID:	720-91105-E-11-A				
Client ID:	DG-AC15S-0.5-1				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 08:43:40	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:32:03	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:32:03

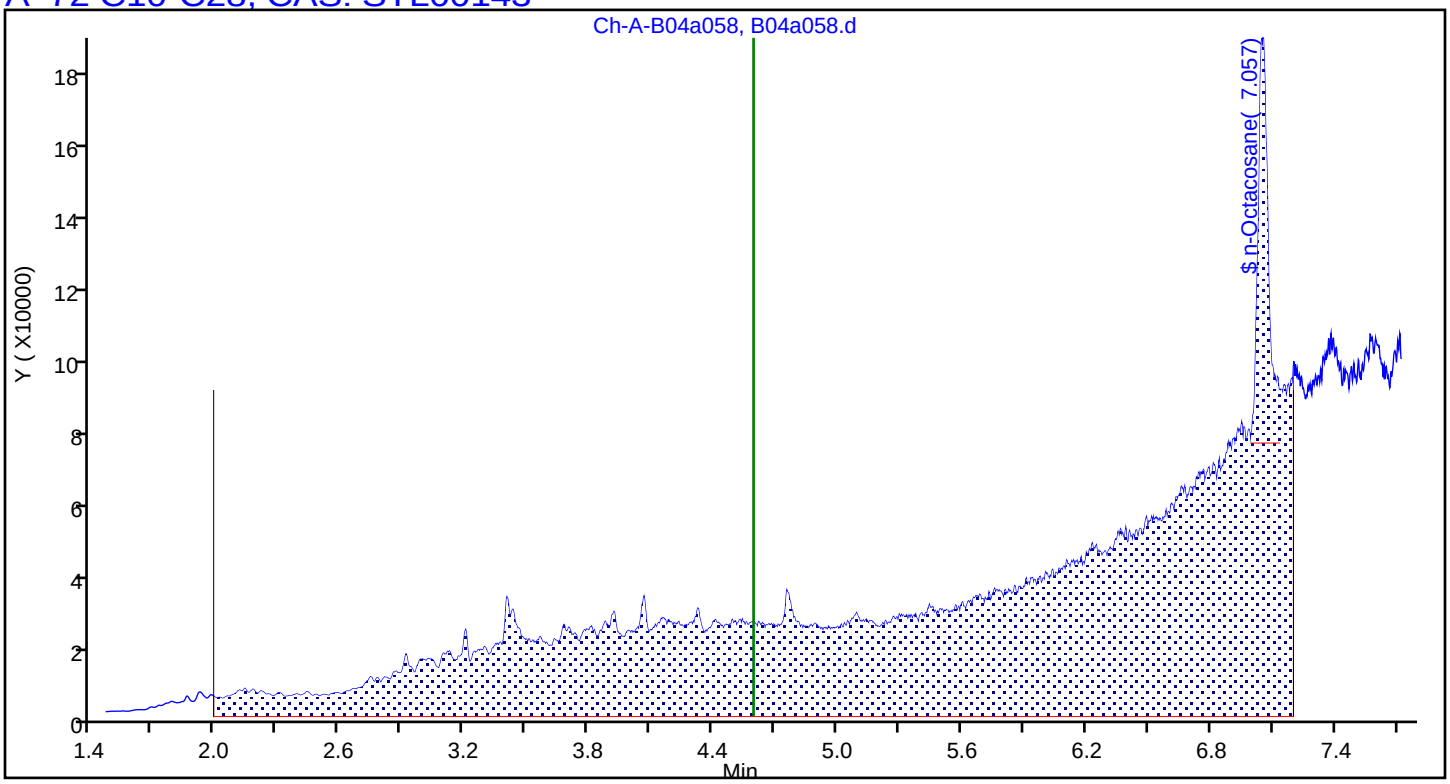
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	99.2	99.18
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:32:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a058.d				
Injection Date:	05-Feb-2019 08:43:40	Instrument ID:	GC70A		
Lims ID:	720-91105-E-11-A	Lab Sample ID:	440-91105-11		
Client ID:	DG-AC15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

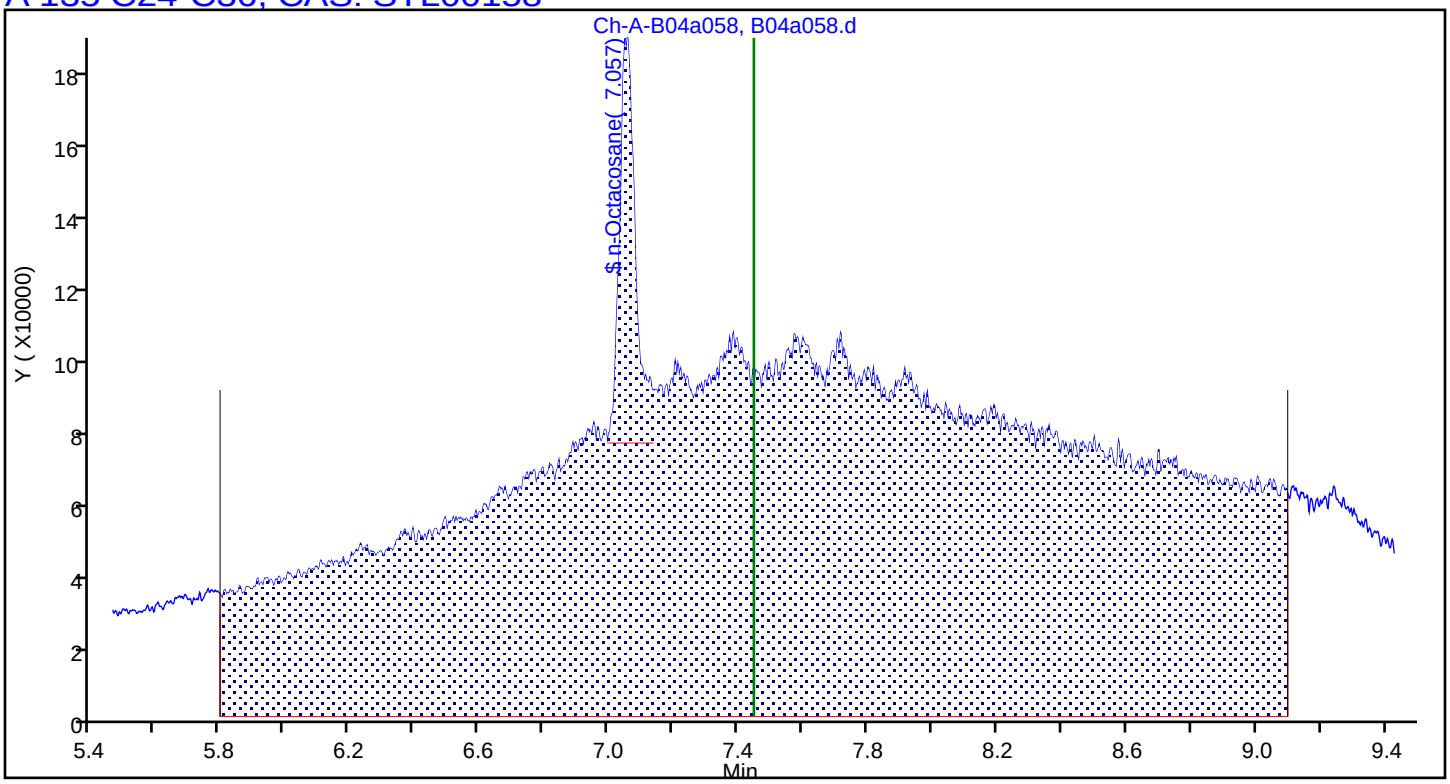


Report Date: 05-Feb-2019 11:32:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a058.d				
Injection Date:	05-Feb-2019 08:43:40	Instrument ID:	GC70A		
Lims ID:	720-91105-E-11-A	Lab Sample ID:	440-91105-11		
Client ID:	DG-AC15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Irvine

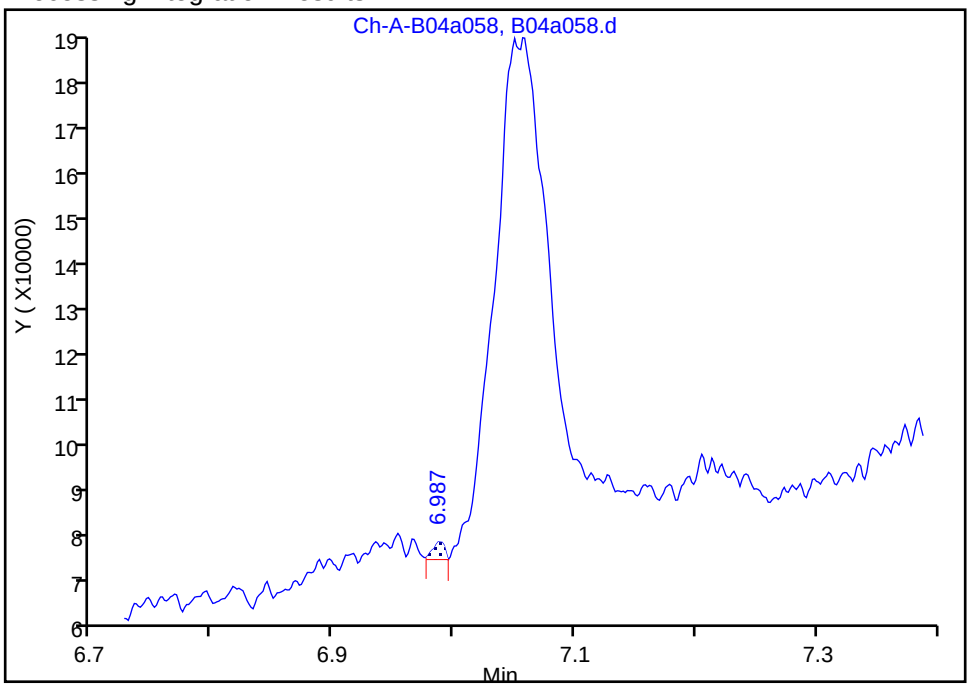
Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a058.d				
Injection Date:	05-Feb-2019 08:43:40	Instrument ID:	GC70A		
Lims ID:	720-91105-E-11-A	Lab Sample ID:	440-91105-11		
Client ID:	DG-AC15S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

$ 127 n-Octacosane, CAS: 630-02-4

Signal: 1

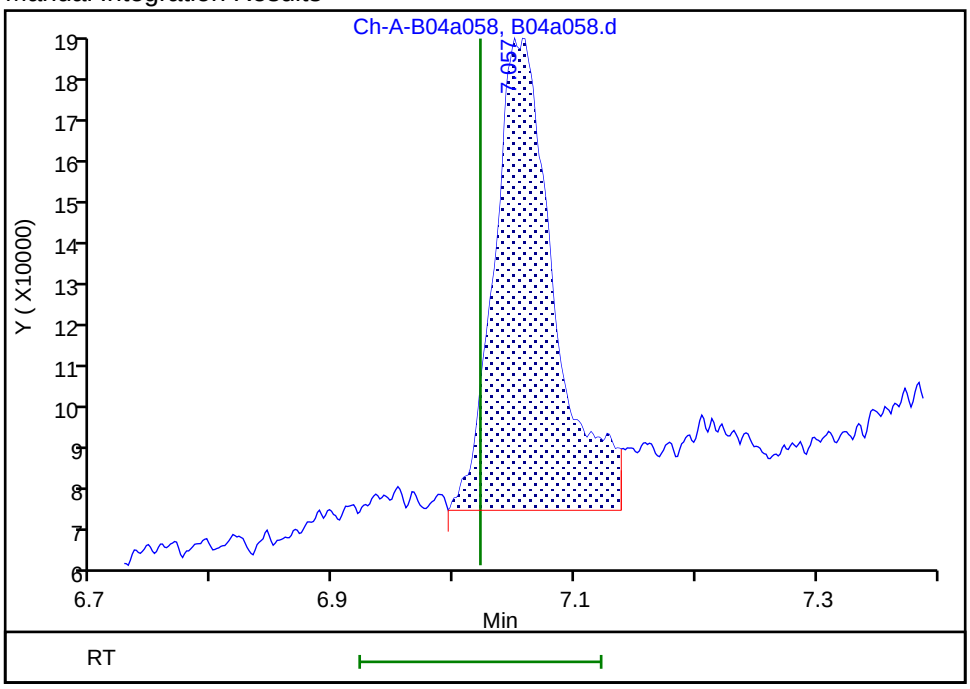
Processing Integration Results

RT: 6.99
Area: 2467
Amount: 0.670586
Amount Units: ug/ml



Manual Integration Results

RT: 7.06
Area: 364867
Amount: 99.179069
Amount Units: ug/ml



Reviewer: doanm, 05-Feb-2019 11:31:51
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a059.d				
Lims ID:	720-91105-E-12-A				
Client ID:	DUP-109				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 09:05:05	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:32:22	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:32:22		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		3230212	891.8	
$ 127 n-Octacosane	7.052	7.022	0.030	348628	94.8	
A 135 C24-C36	7.448	(5.797-9.100)		4509678	1245.0	

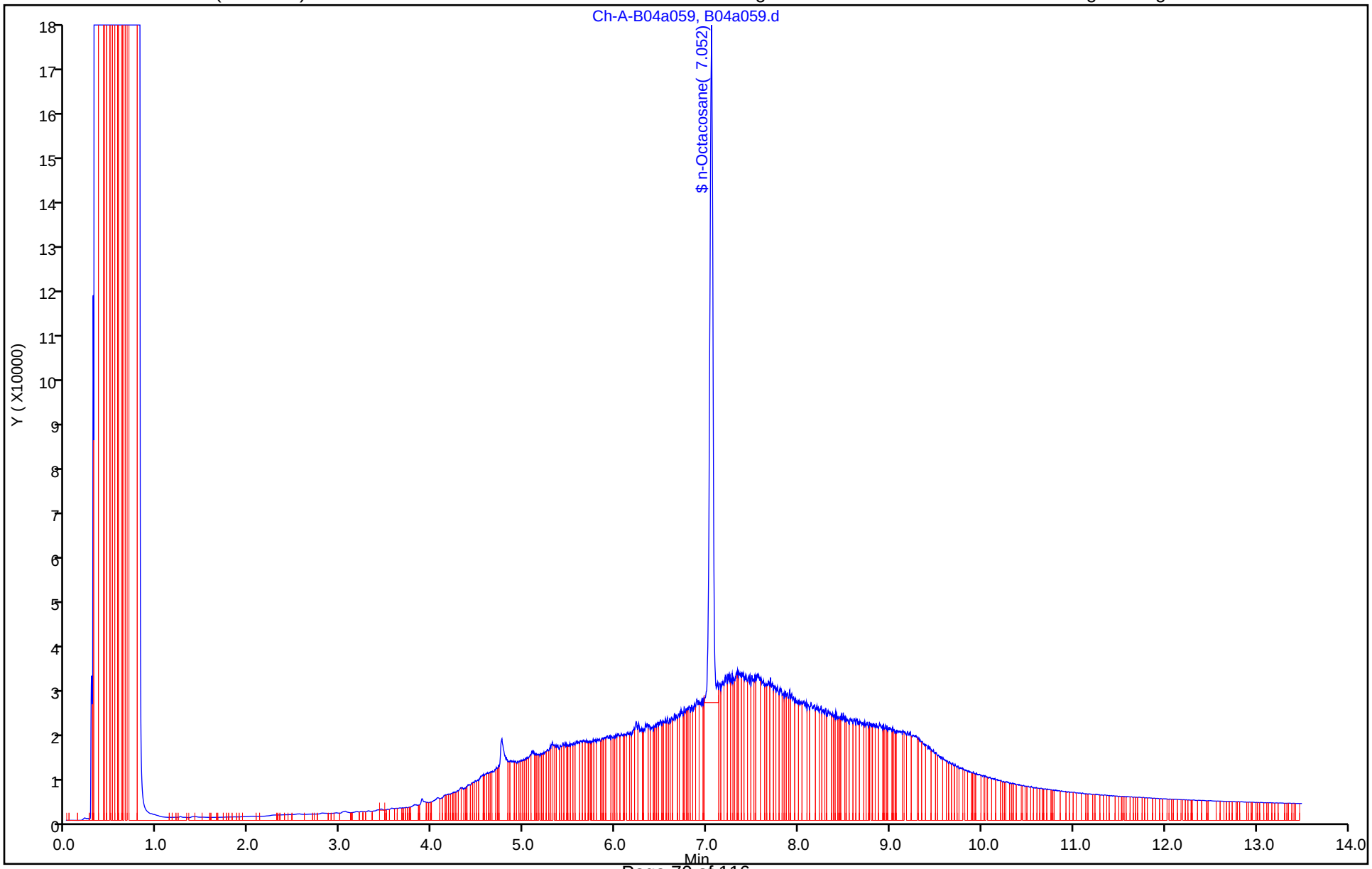
Report Date: 05-Feb-2019 11:32:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a059.d

Injection Date:	05-Feb-2019 09:05:05	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-12-A	Lab Sample ID:	440-91105-12	Worklist Smp#:	59
Client ID:	DUP-109				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a059.d				
Lims ID:	720-91105-E-12-A				
Client ID:	DUP-109				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 09:05:05	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:32:22	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:32:22

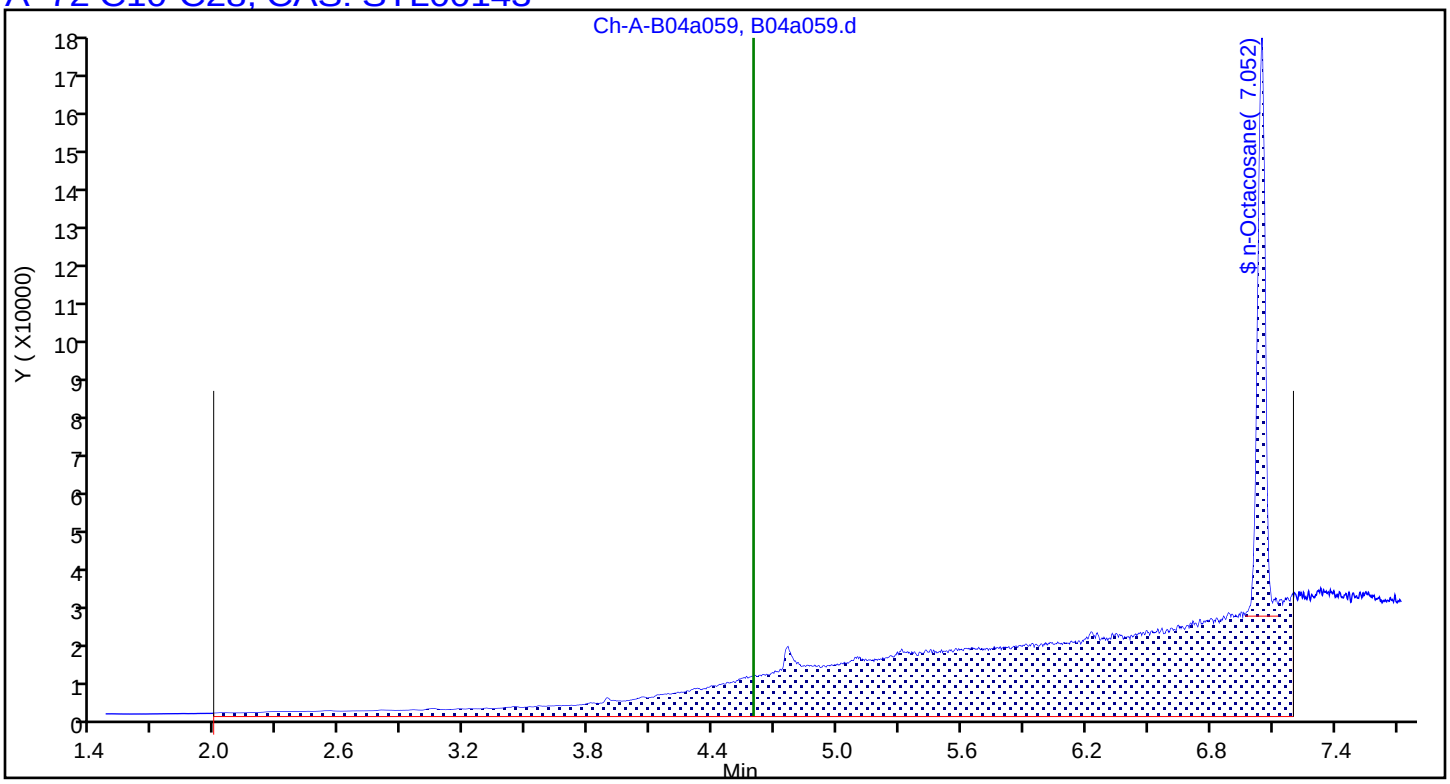
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	94.8	94.76
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:32:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a059.d				
Injection Date:	05-Feb-2019 09:05:05	Instrument ID:	GC70A		
Lims ID:	720-91105-E-12-A	Lab Sample ID:	440-91105-12		
Client ID:	DUP-109				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

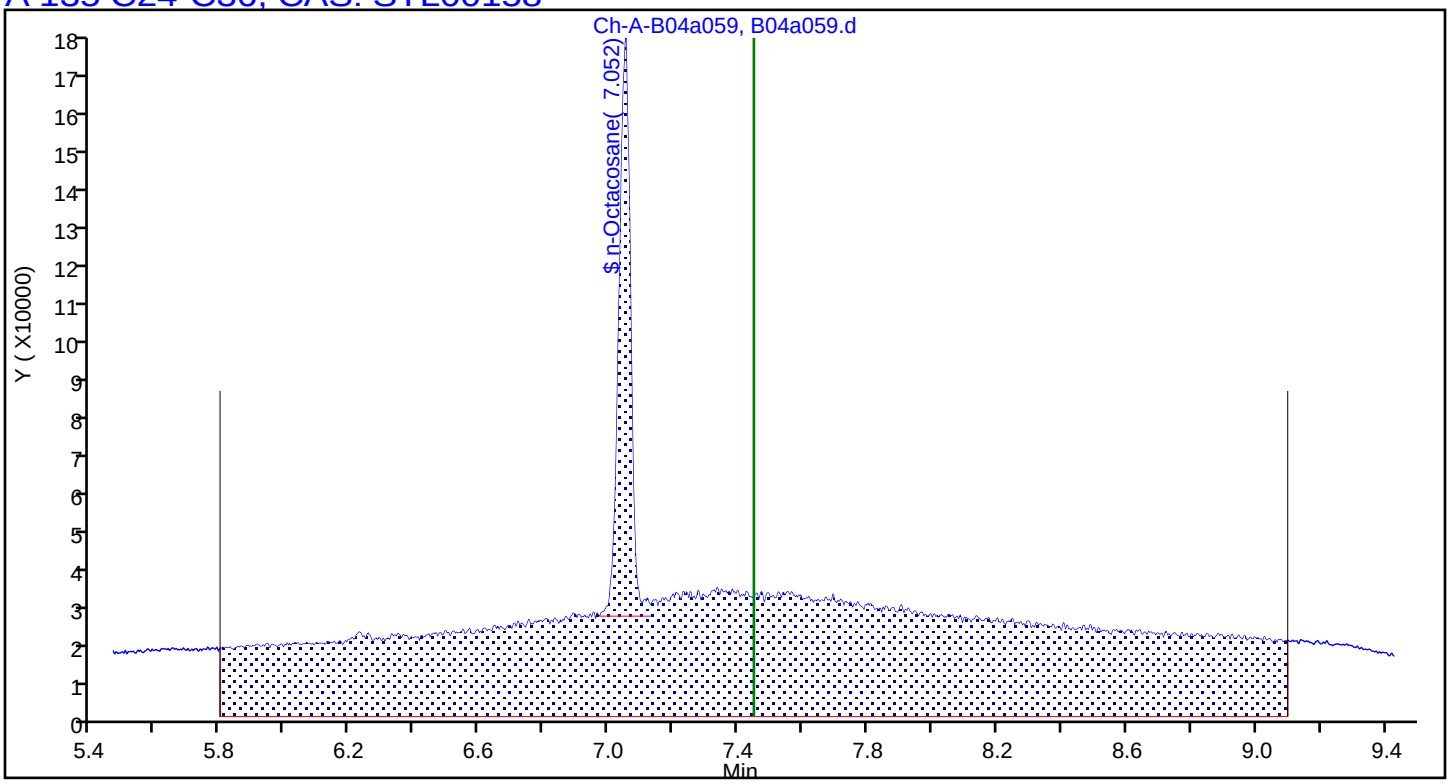


Report Date: 05-Feb-2019 11:32:24 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a059.d				
Injection Date:	05-Feb-2019 09:05:05	Instrument ID:	GC70A		
Lims ID:	720-91105-E-12-A	Lab Sample ID:	440-91105-12		
Client ID:	DUP-109				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a065.d				
Lims ID:	720-91105-E-13-A				
Client ID:	DG-AC15S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 11:13:02	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 13:02:19	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:35:36		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		1616136	446.2	
$ 127 n-Octacosane	7.053	7.022	0.031	626892	170.4	
A 135 C24-C36	7.448	(5.797-9.100)		1389842	383.7	

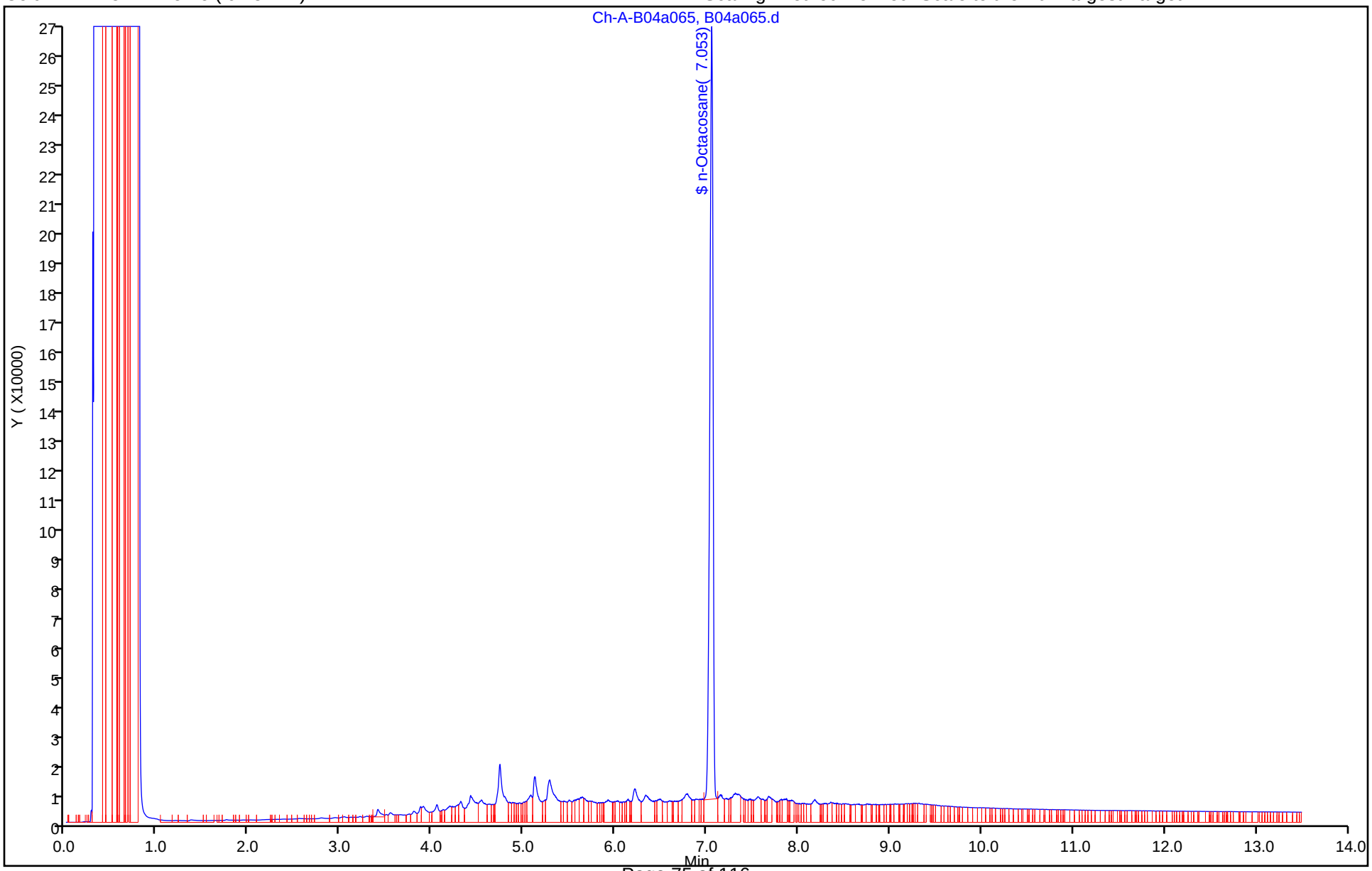
Report Date: 05-Feb-2019 17:01:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a065.d

Injection Date:	05-Feb-2019 11:13:02	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-13-A	Lab Sample ID:	440-91105-13	Worklist Smp#:	65
Client ID:	DG-AC15S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a065.d				
Lims ID:	720-91105-E-13-A				
Client ID:	DG-AC15S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 11:13:02	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 13:02:19	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				

First Level Reviewer: doanm Date: 05-Feb-2019 11:35:36

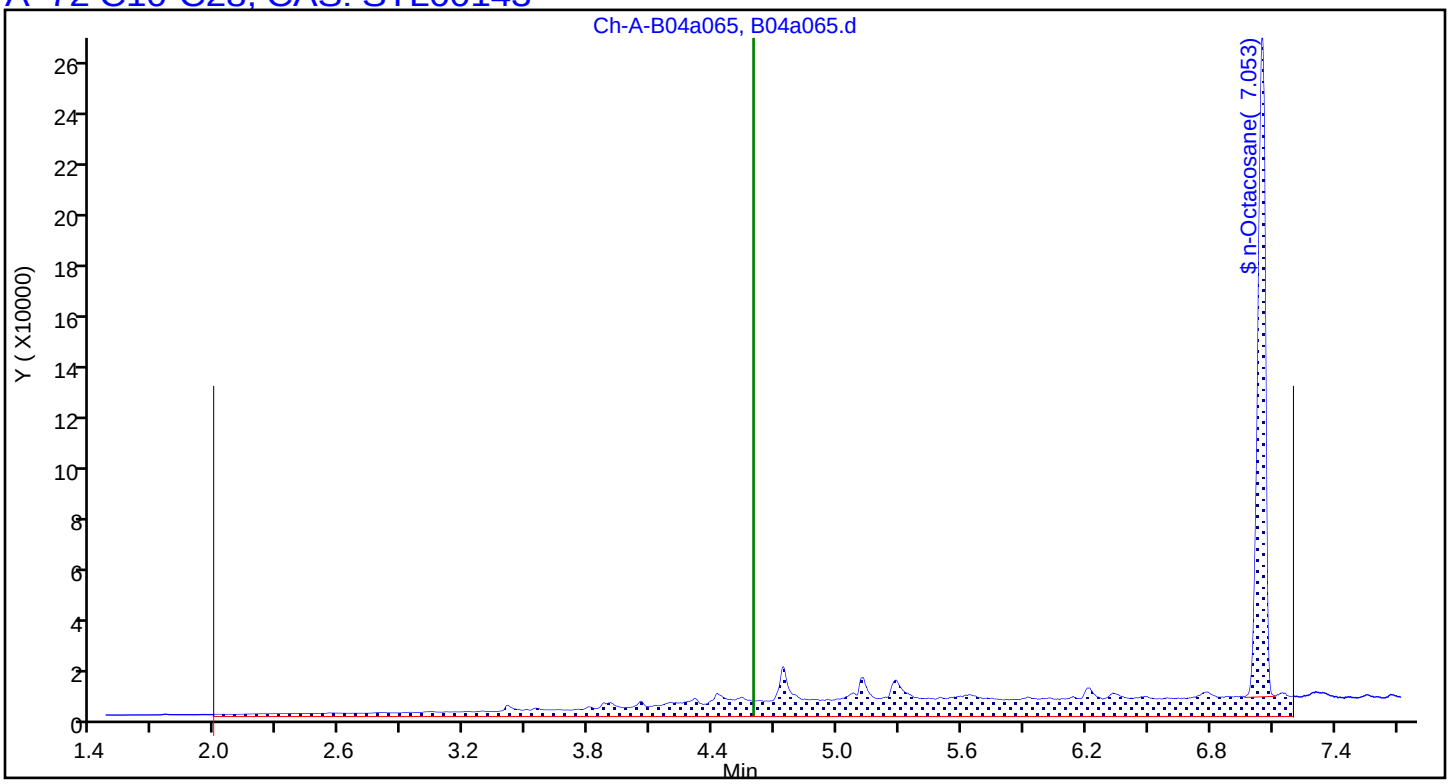
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	170.4	85.20
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 17:01:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a065.d				
Injection Date:	05-Feb-2019 11:13:02	Instrument ID:	GC70A		
Lims ID:	720-91105-E-13-A	Lab Sample ID:	440-91105-13		
Client ID:	DG-AC15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

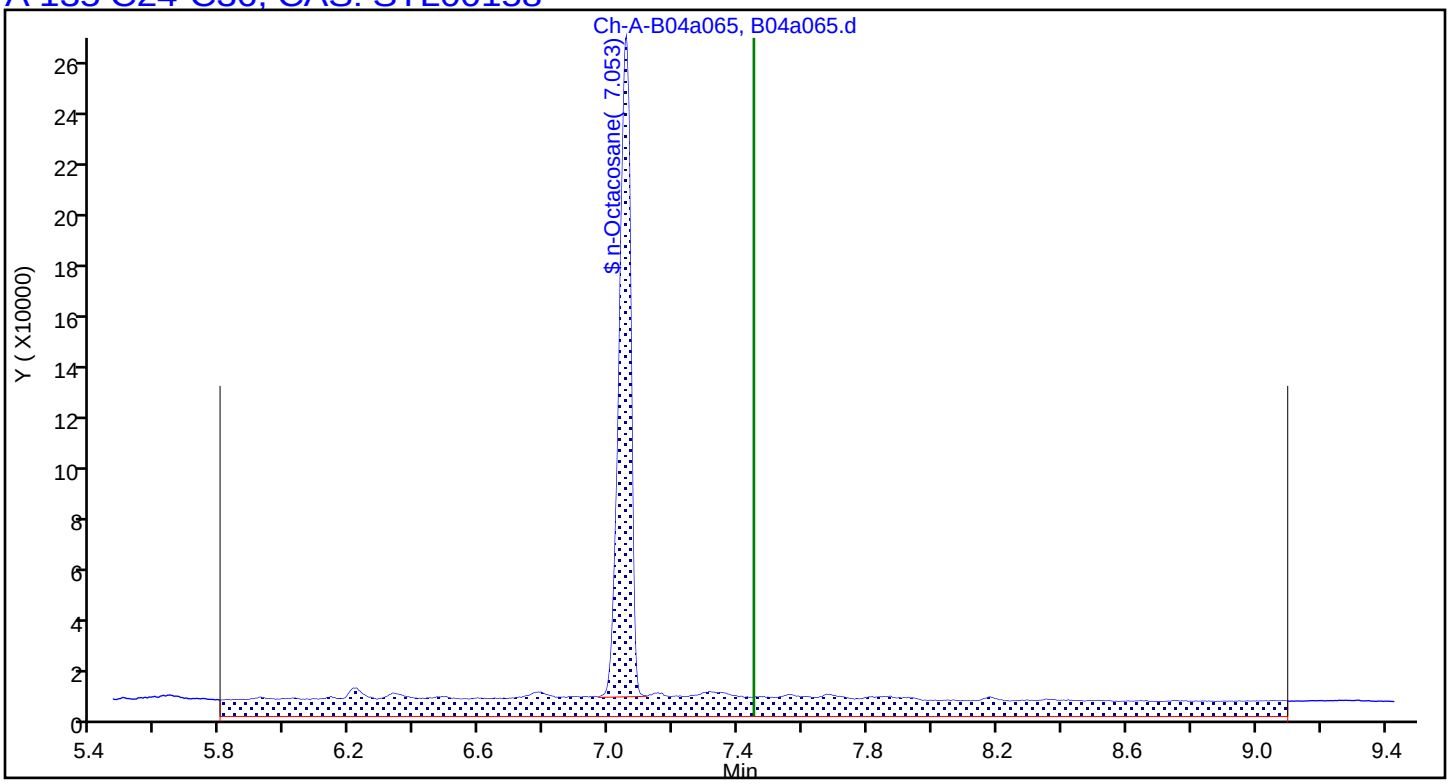


Report Date: 05-Feb-2019 17:01:36 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a065.d				
Injection Date:	05-Feb-2019 11:13:02	Instrument ID:	GC70A		
Lims ID:	720-91105-E-13-A	Lab Sample ID:	440-91105-13		
Client ID:	DG-AC15S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a061.d				
Lims ID:	720-91105-E-14-A				
Client ID:	DG-AC15S-7.5-8				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 11:41:21	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 12:05:52	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0323				
First Level Reviewer: doanm		Date:	06-Feb-2019 12:05:52		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.982-7.193)		6937564	1915.3	
$ 127 n-Octacosane	7.010	7.027	-0.017	49513	13.5	
A 135 C24-C36	7.468	(5.837-9.098)		4174627	1152.5	

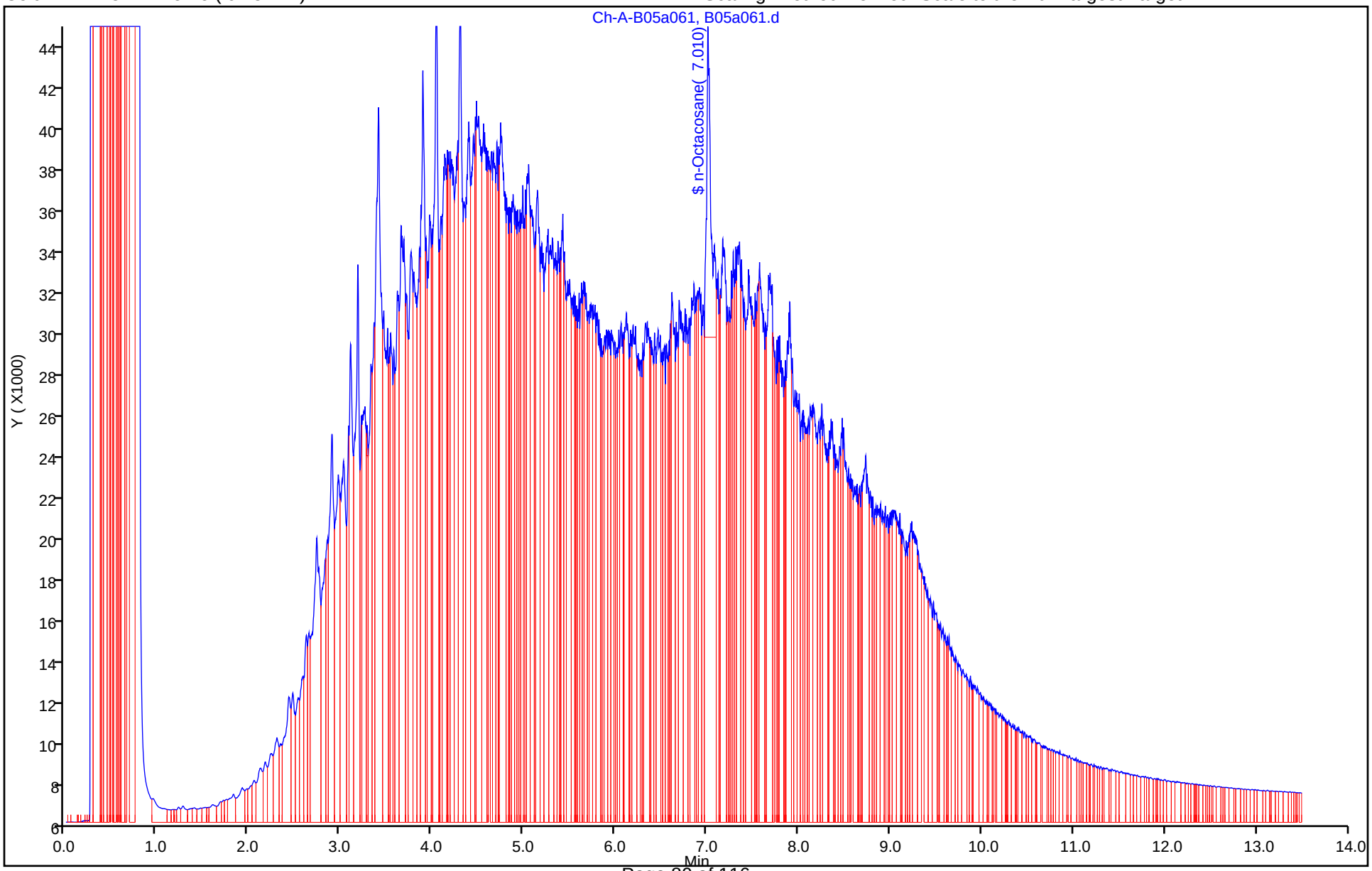
Report Date: 06-Feb-2019 12:05:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a061.d

Injection Date:	06-Feb-2019 11:41:21	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-14-A	Lab Sample ID:	440-91105-14	Worklist Smp#:	52
Client ID:	DG-AC15S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a061.d				
Lims ID:	720-91105-E-14-A				
Client ID:	DG-AC15S-7.5-8				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 11:41:21	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 12:05:52	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0323				
First Level Reviewer: doanm		Date:	06-Feb-2019 12:05:52		

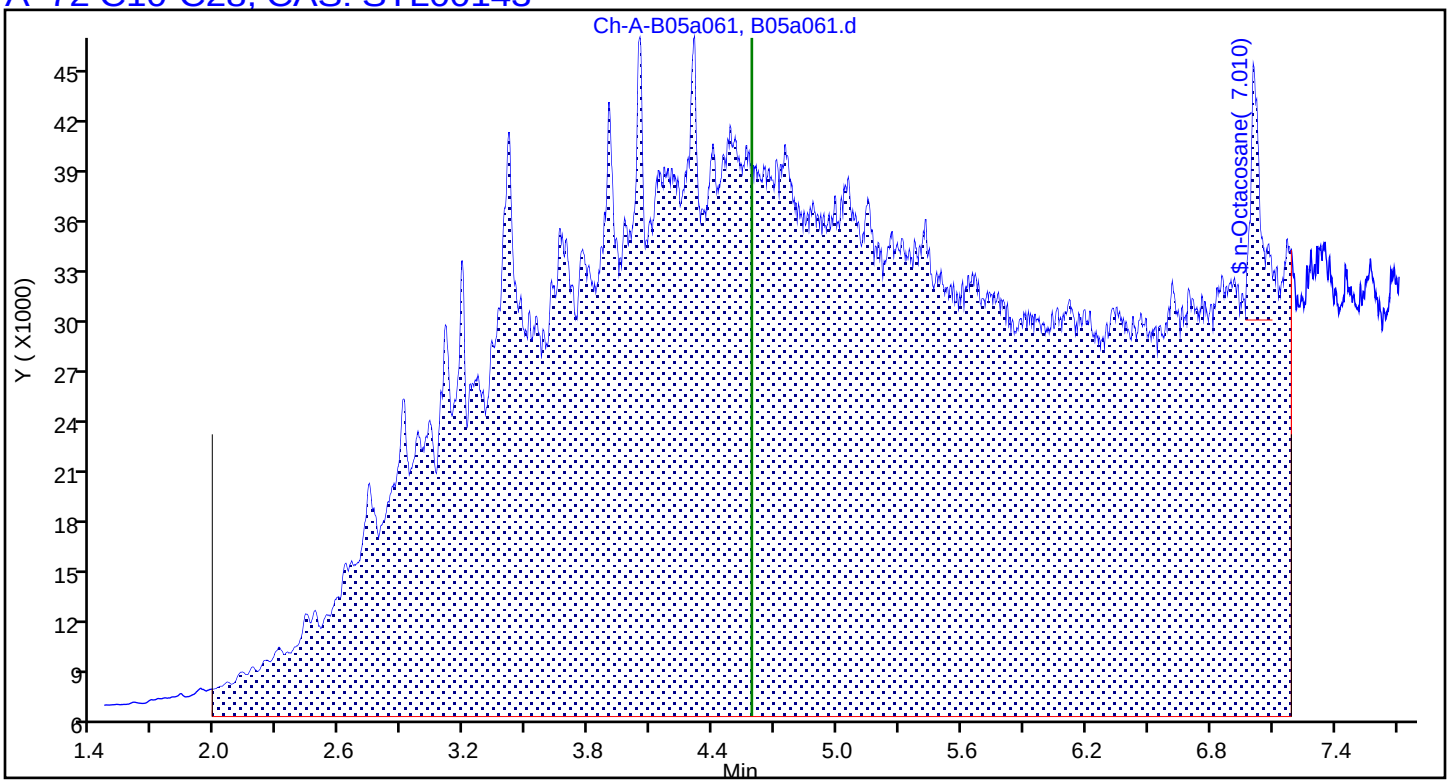
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	13.5	67.29
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 12:05:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a061.d				
Injection Date:	06-Feb-2019 11:41:21	Instrument ID:	GC70A		
Lims ID:	720-91105-E-14-A	Lab Sample ID:	440-91105-14		
Client ID:	DG-AC15S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



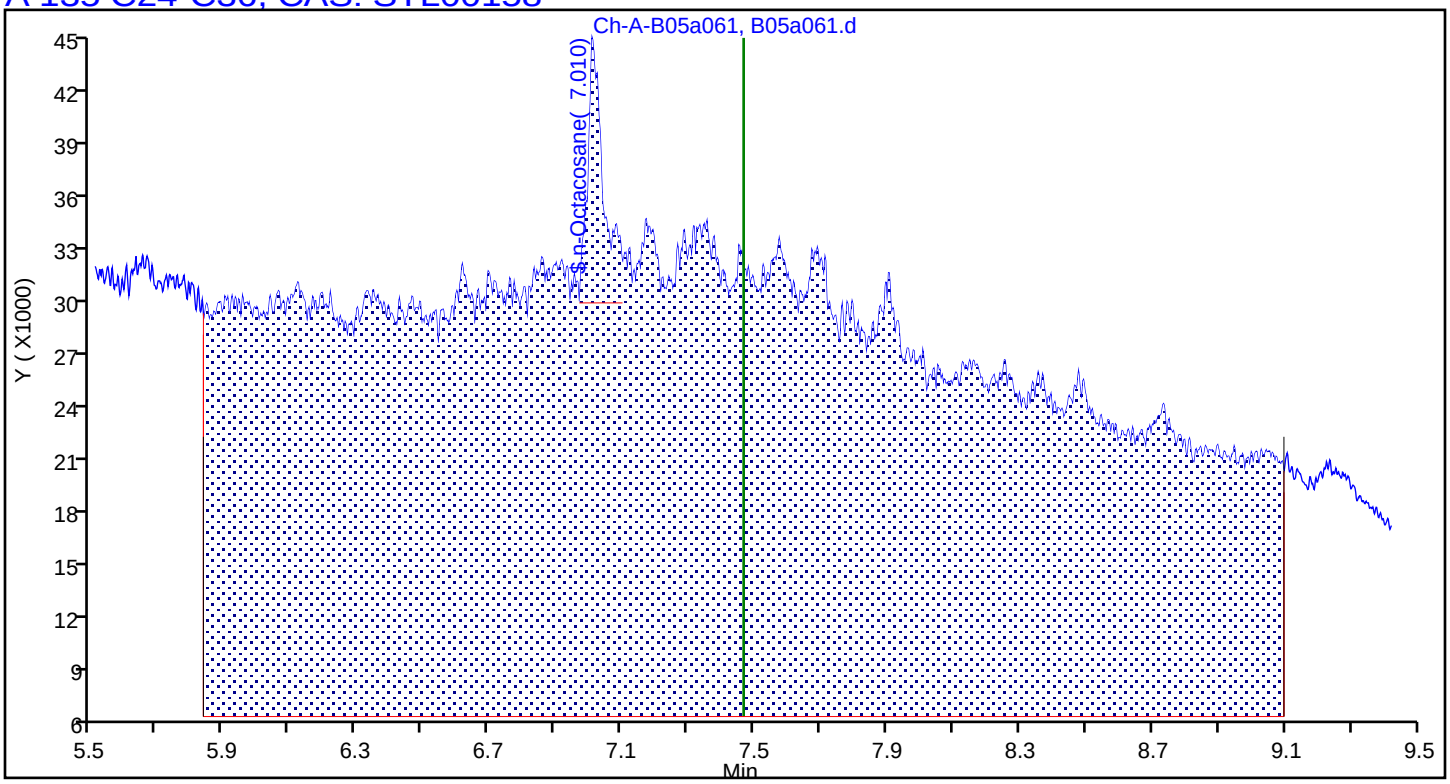
Report Date: 06-Feb-2019 12:05:53 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a061.d

Injection Date:	06-Feb-2019 11:41:21	Instrument ID:	GC70A		
Lims ID:	720-91105-E-14-A	Lab Sample ID:	440-91105-14		
Client ID:	DG-AC15S-7.5-8				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05A062.d				
Lims ID:	720-91105-E-15-A				
Client ID:	DG-AN13S-0.5-1				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 12:02:30	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 12:44:12	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0323				
First Level Reviewer: doanm		Date:	06-Feb-2019 12:44:12		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.588	(1.982-7.193)		3147942	869.1	
$ 127 n-Octacosane	7.025	7.027	-0.002	11839	3.22	
A 135 C24-C36	7.468	(5.837-9.098)		6125742	1691.2	

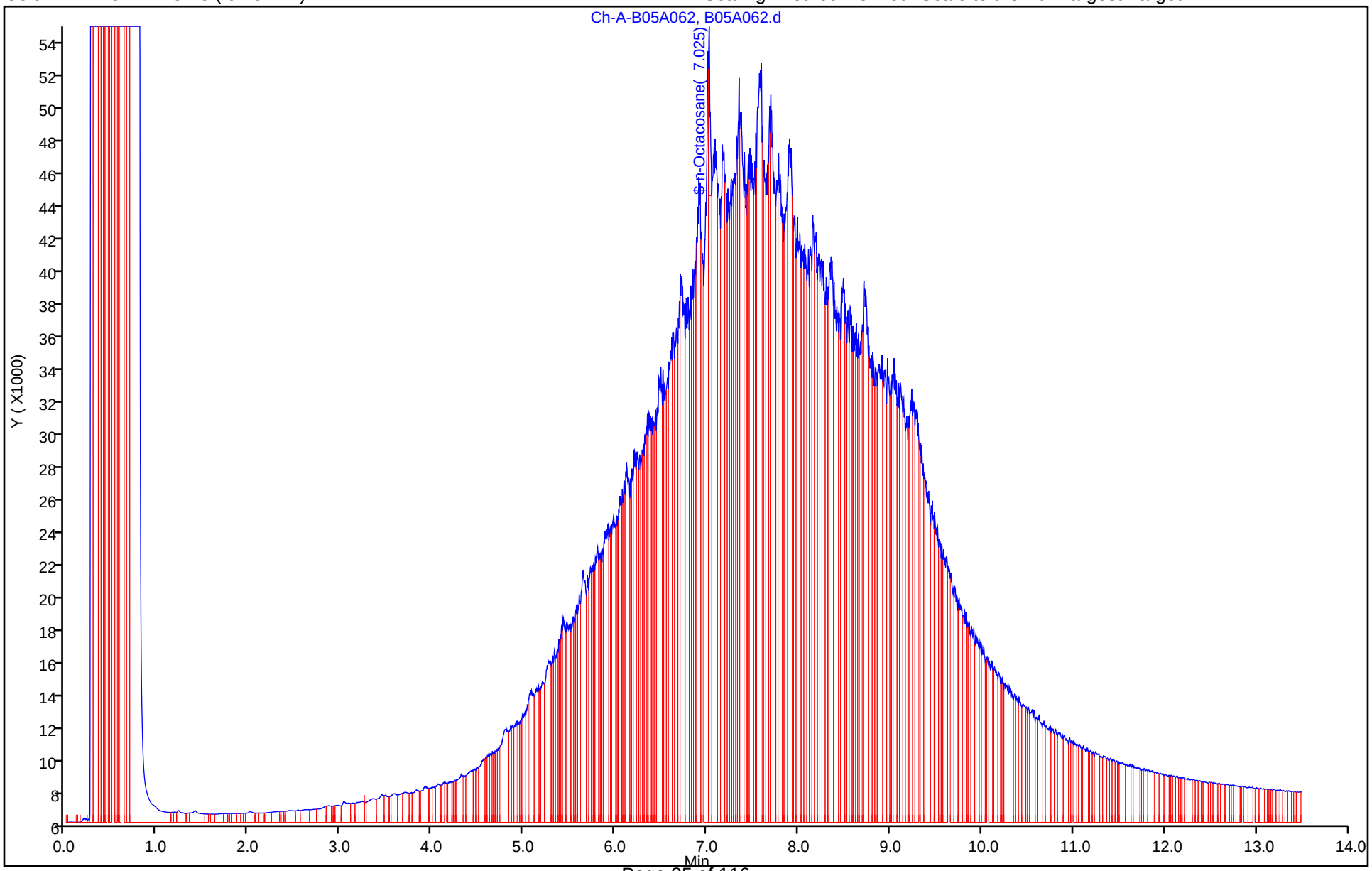
Report Date: 06-Feb-2019 12:44:12 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05A062.d

Injection Date:	06-Feb-2019 12:02:30	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-15-A	Lab Sample ID:	440-91105-15	Worklist Smp#:	53
Client ID:	DG-AN13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05A062.d				
Lims ID:	720-91105-E-15-A				
Client ID:	DG-AN13S-0.5-1				
Sample Type:	Client				
Inject. Date:	06-Feb-2019 12:02:30	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	06-Feb-2019 12:44:12	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0323				

First Level Reviewer: doanm Date: 06-Feb-2019 12:44:12

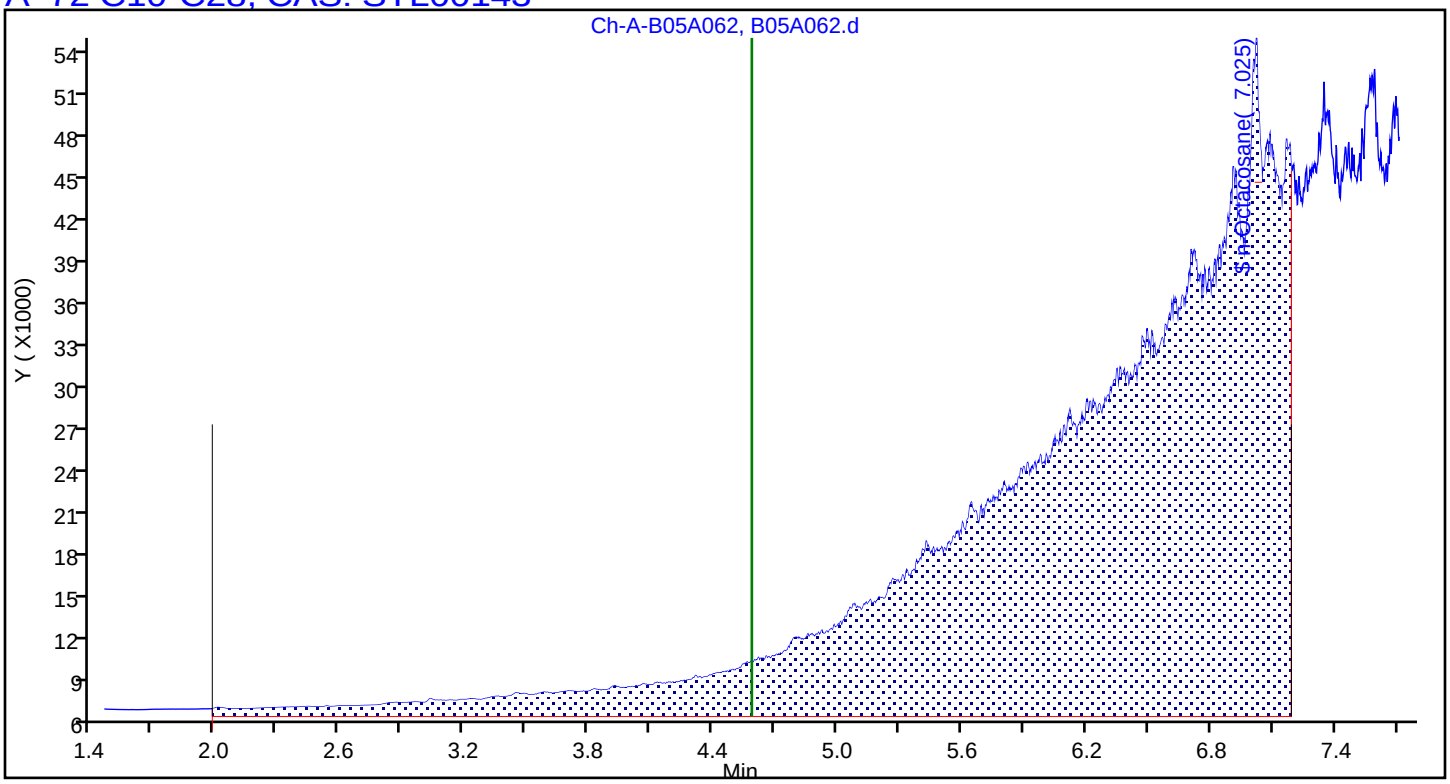
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	3.22	32.18
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 06-Feb-2019 12:44:12 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05A062.d				
Injection Date:	06-Feb-2019 12:02:30	Instrument ID:	GC70A		
Lims ID:	720-91105-E-15-A	Lab Sample ID:	440-91105-15		
Client ID:	DG-AN13S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143



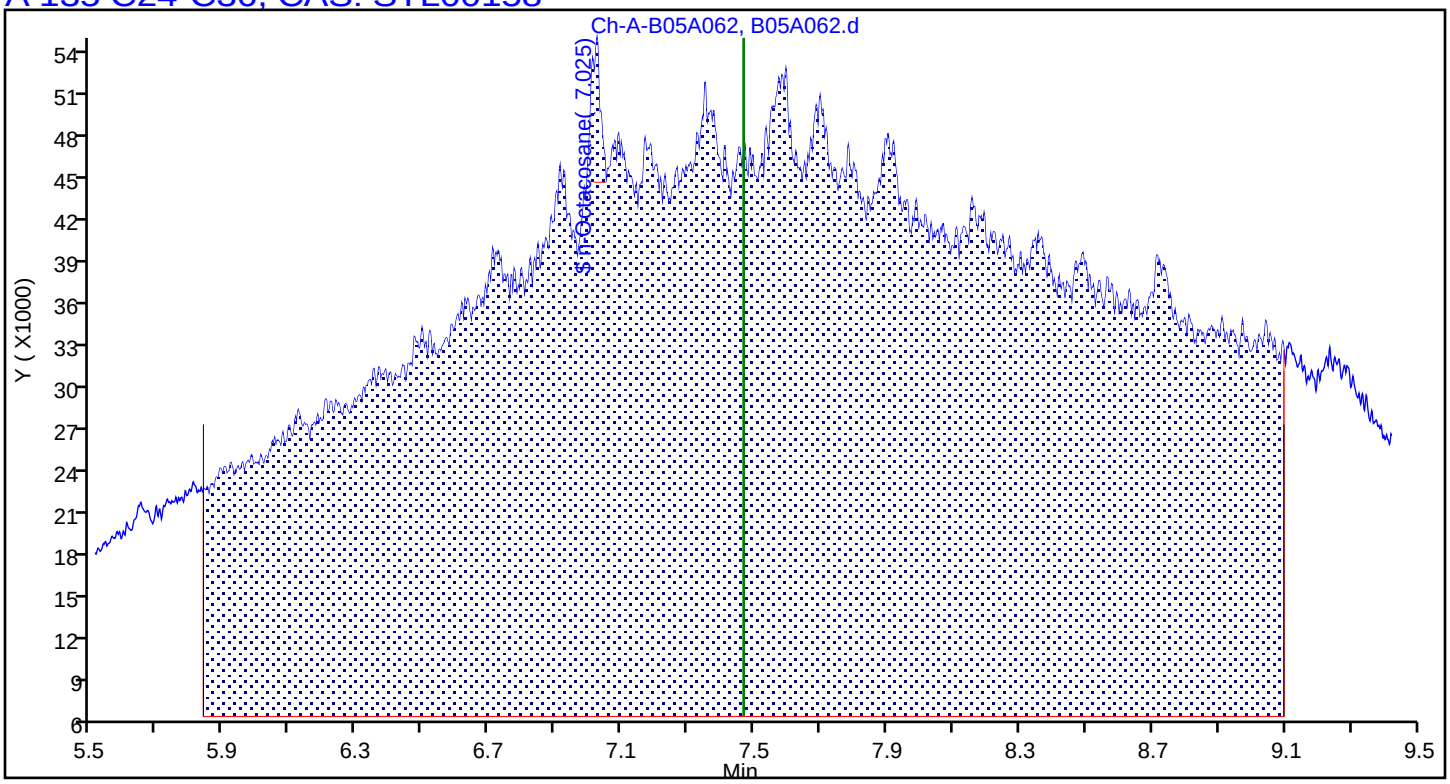
Report Date: 06-Feb-2019 12:44:12 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05A062.d

Injection Date:	06-Feb-2019 12:02:30	Instrument ID:	GC70A		
Lims ID:	720-91105-E-15-A	Lab Sample ID:	440-91105-15		
Client ID:	DG-AN13S-0.5-1				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a066.d				
Lims ID:	720-91105-E-16-A				
Client ID:	DG-AN13S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 11:34:49	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 13:02:19	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				
First Level Reviewer: doanm		Date:	05-Feb-2019 12:19:43		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		1404907	387.9	
$ 127 n-Octacosane	7.028	7.022	0.006	646404	175.7	
A 135 C24-C36	7.448	(5.797-9.100)		1777643	490.8	

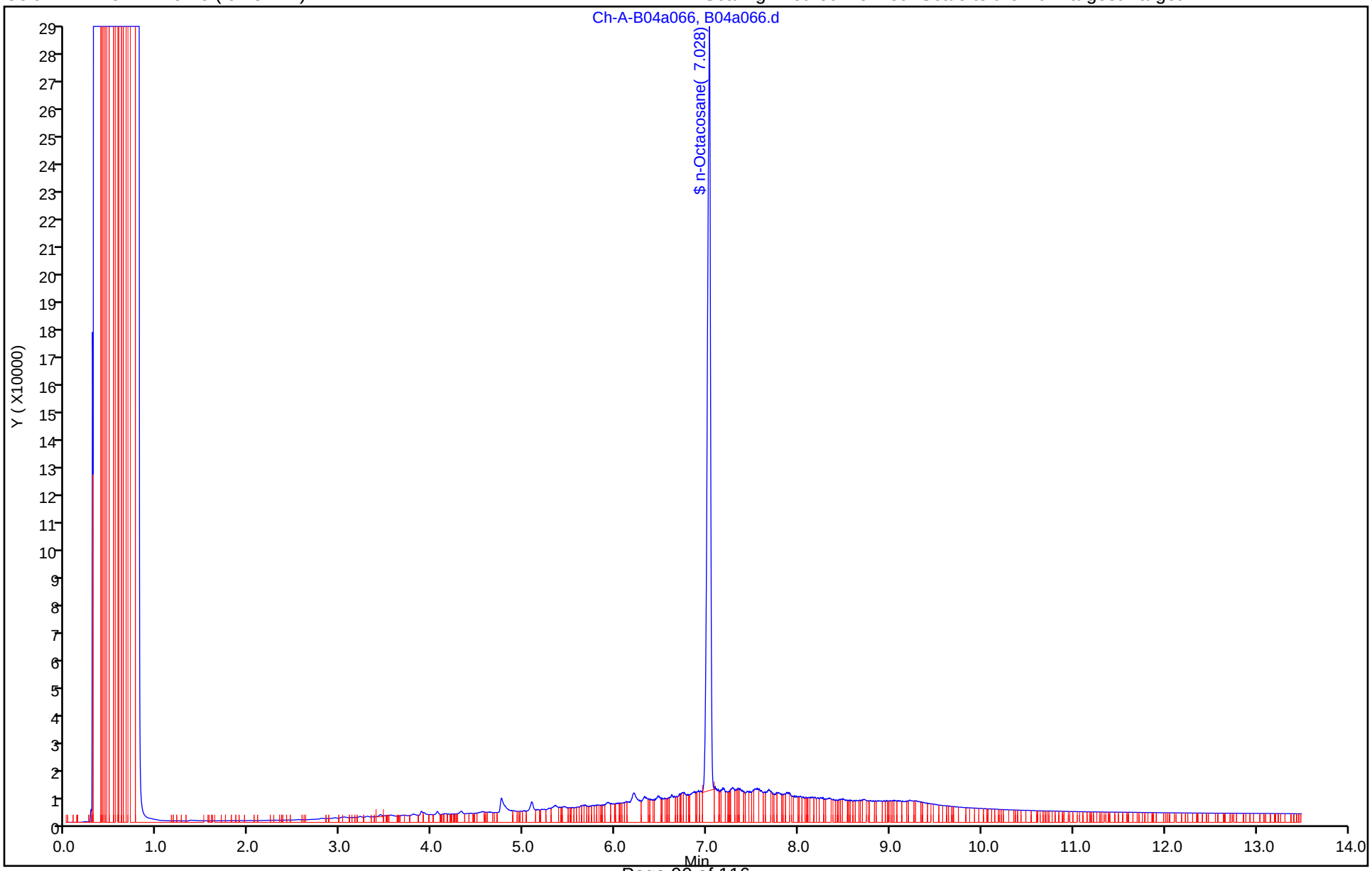
Report Date: 05-Feb-2019 17:01:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a066.d

Injection Date:	05-Feb-2019 11:34:49	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-16-A	Lab Sample ID:	440-91105-16	Worklist Smp#:	66
Client ID:	DG-AN13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a066.d				
Lims ID:	720-91105-E-16-A				
Client ID:	DG-AN13S-3.5-4				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 11:34:49	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 13:02:19	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				

First Level Reviewer: doanm Date: 05-Feb-2019 12:19:43

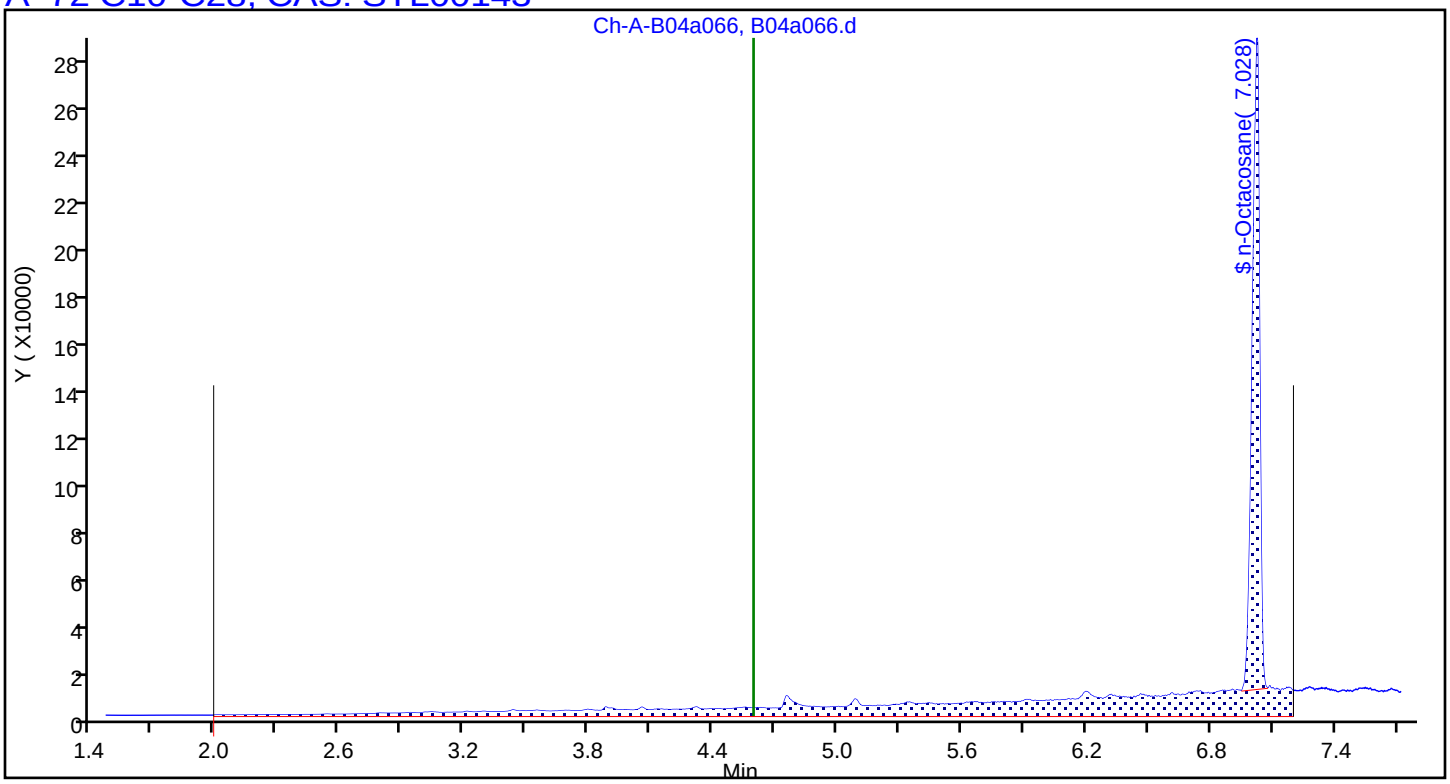
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	175.7	87.85
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 17:01:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a066.d				
Injection Date:	05-Feb-2019 11:34:49	Instrument ID:	GC70A		
Lims ID:	720-91105-E-16-A	Lab Sample ID:	440-91105-16		
Client ID:	DG-AN13S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

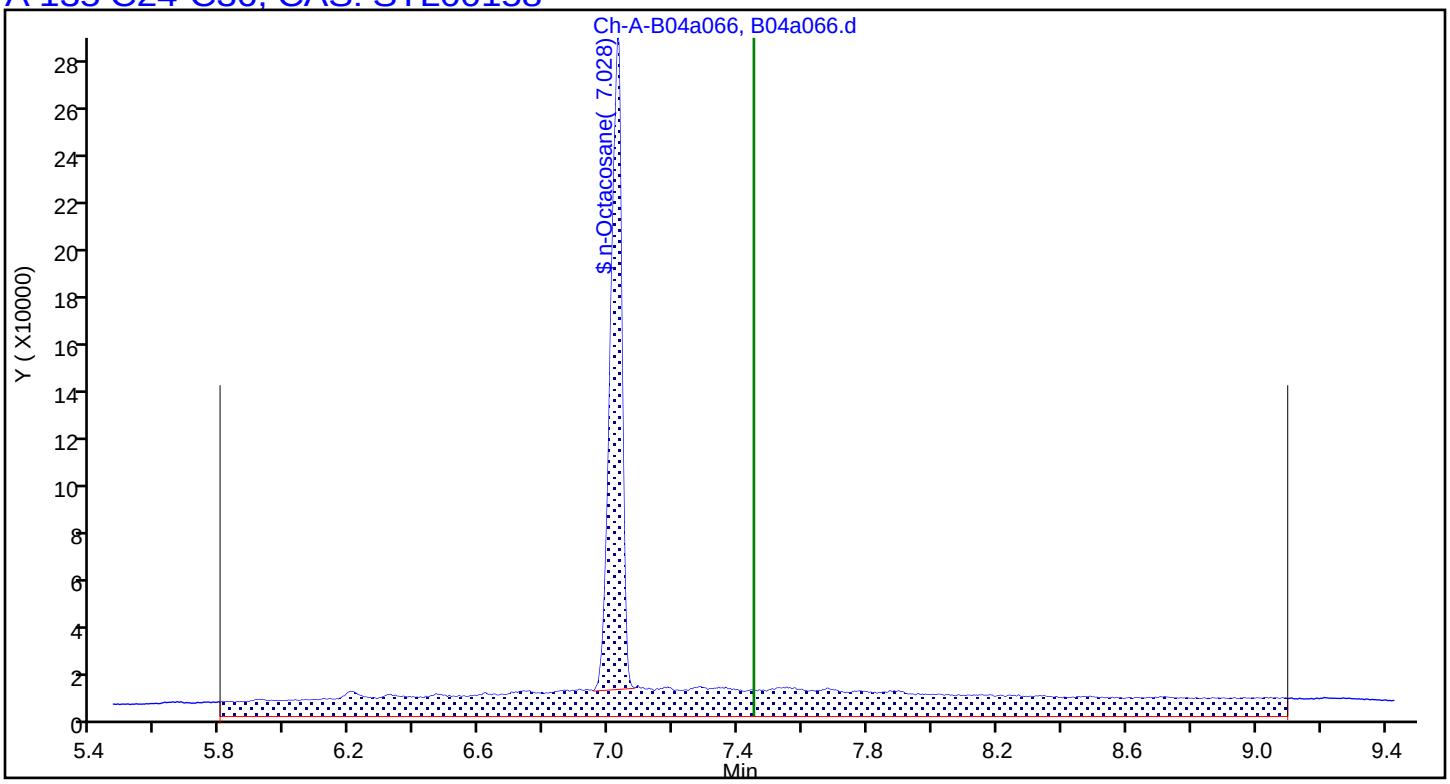


Report Date: 05-Feb-2019 17:01:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a066.d				
Injection Date:	05-Feb-2019 11:34:49	Instrument ID:	GC70A		
Lims ID:	720-91105-E-16-A	Lab Sample ID:	440-91105-16		
Client ID:	DG-AN13S-3.5-4				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a068.d				
Lims ID:	720-91105-E-17-A				
Client ID:	DG-AN13S-9.5-10				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 12:18:09	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 17:18:54	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				
First Level Reviewer: barnettl		Date:	05-Feb-2019 17:18:54		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		965416	266.5	
$ 127 n-Octacosane	7.018	7.022	-0.004	617156	167.8	
A 135 C24-C36	7.448	(5.797-9.100)		551608	152.3	

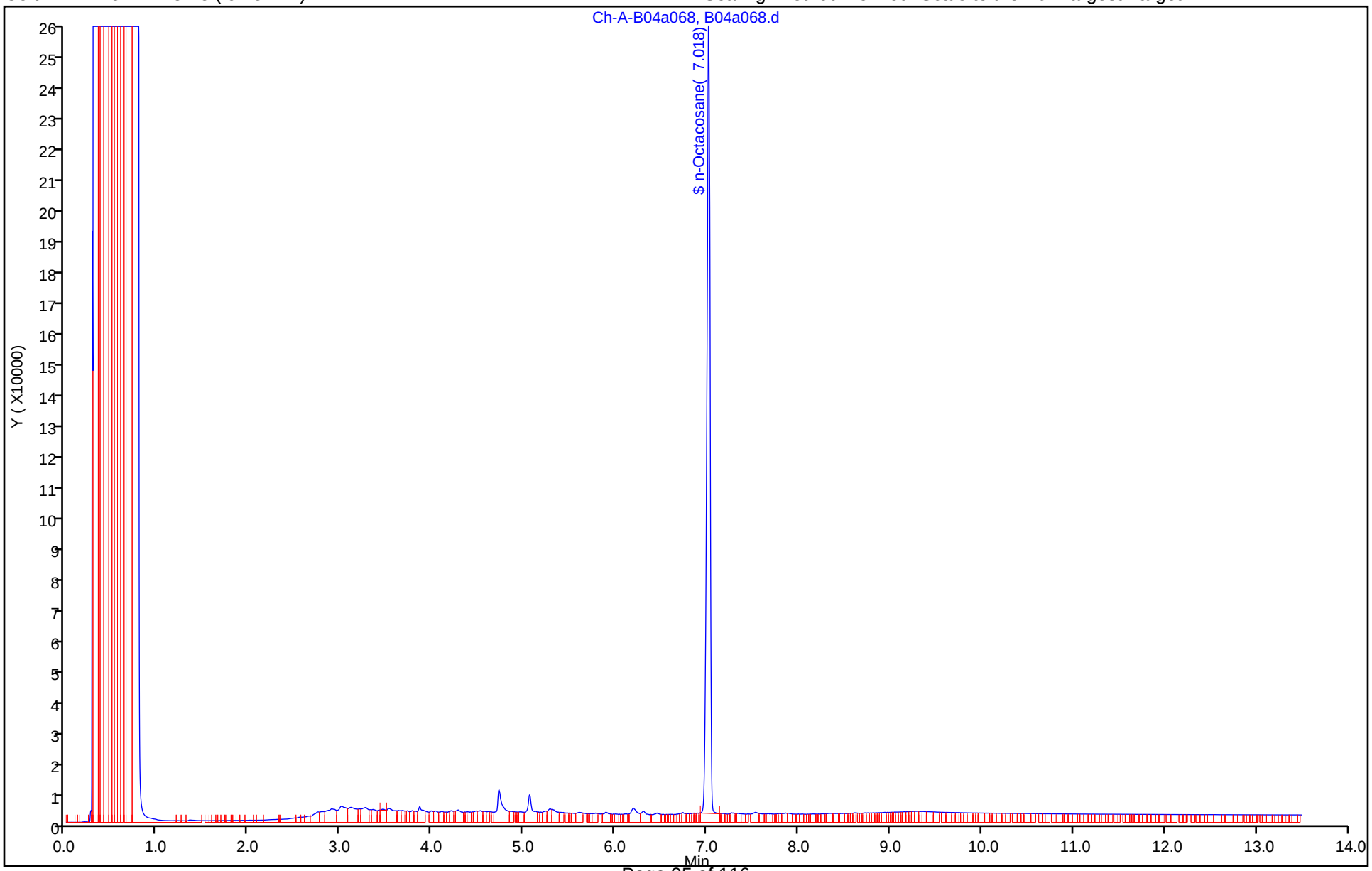
Report Date: 05-Feb-2019 17:18:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a068.d

Injection Date:	05-Feb-2019 12:18:09	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-17-A	Lab Sample ID:	440-91105-17	Worklist Smp#:	68
Client ID:	DG-AN13S-9.5-10				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a068.d				
Lims ID:	720-91105-E-17-A				
Client ID:	DG-AN13S-9.5-10				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 12:18:09	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 17:18:54	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0312				

First Level Reviewer: barnettl Date: 05-Feb-2019 17:18:54

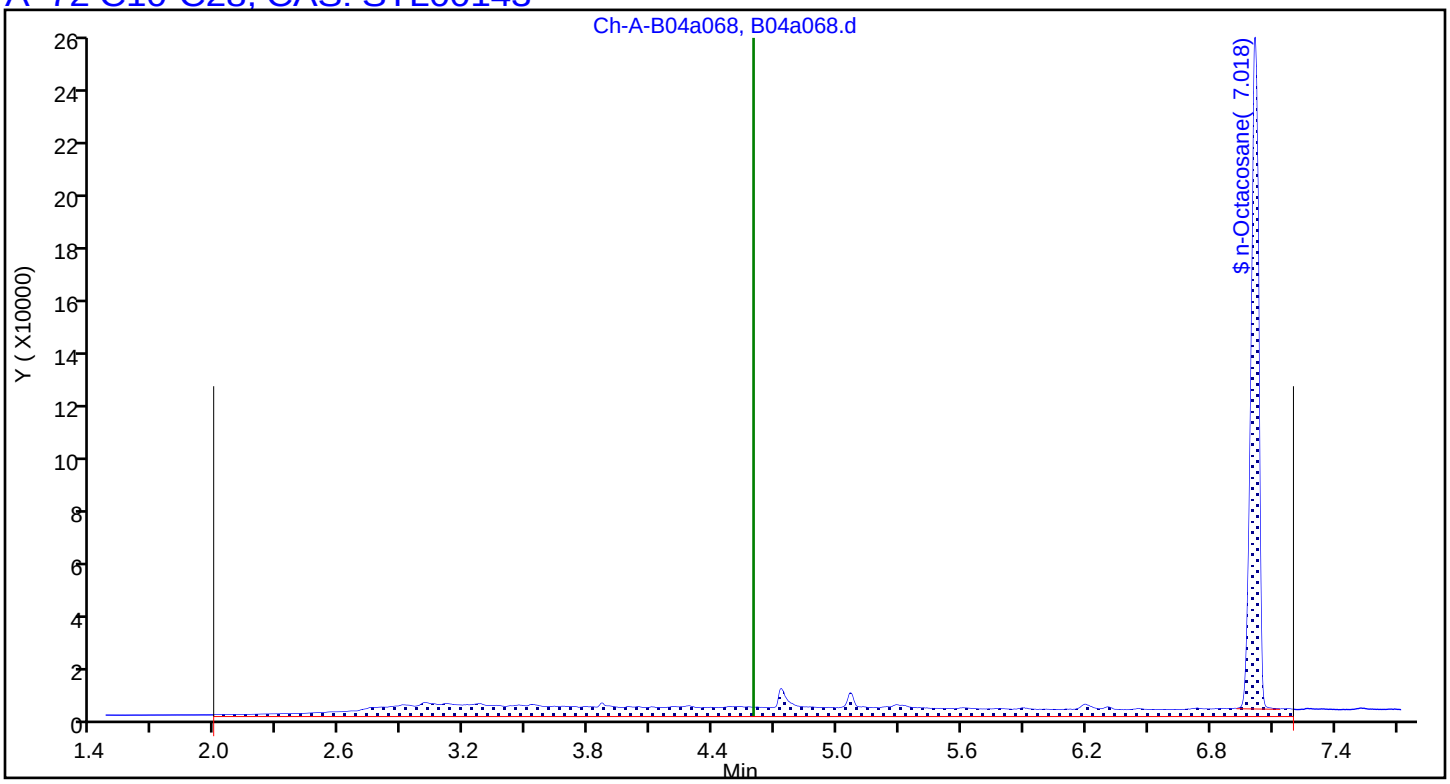
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	167.8	83.88
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 17:18:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a068.d				
Injection Date:	05-Feb-2019 12:18:09	Instrument ID:	GC70A		
Lims ID:	720-91105-E-17-A	Lab Sample ID:	440-91105-17		
Client ID:	DG-AN13S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

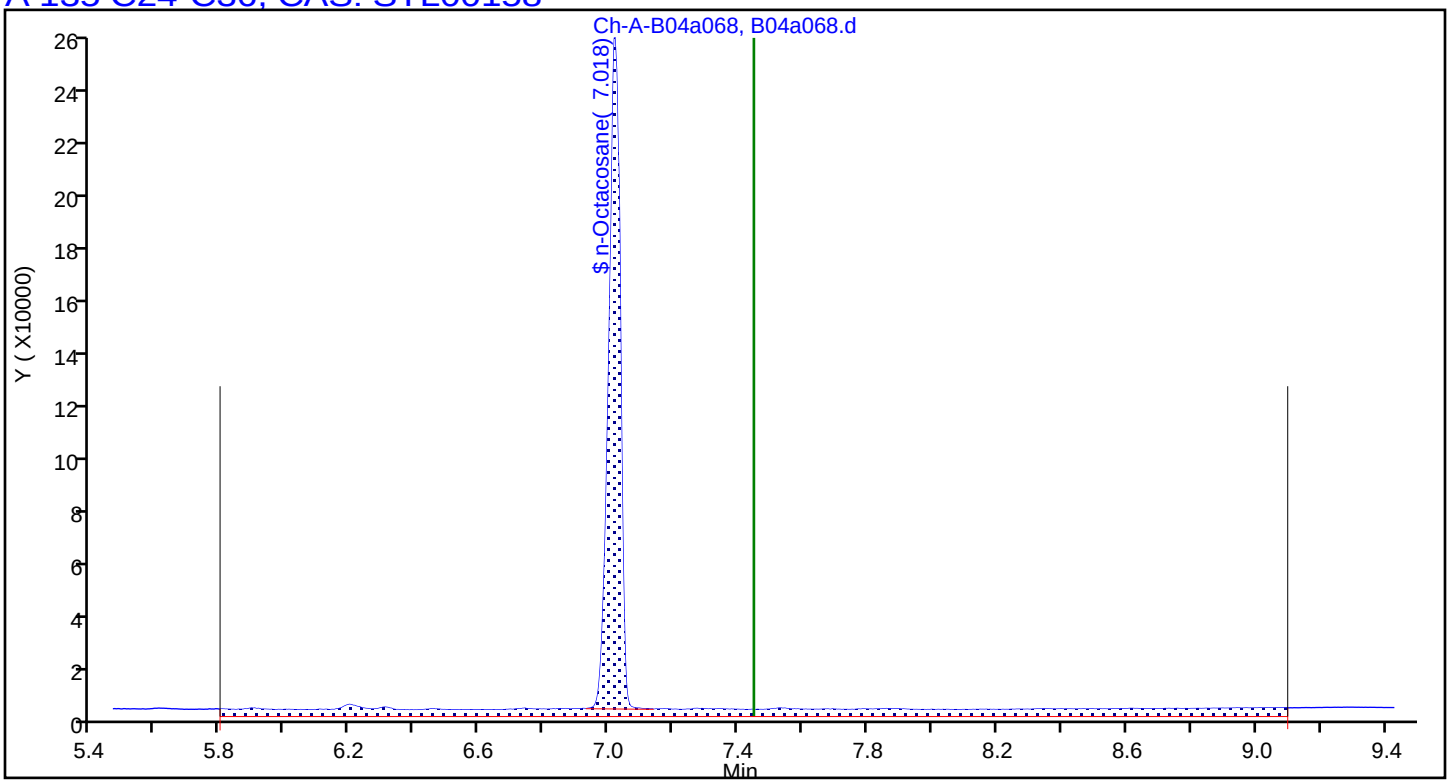


Report Date: 05-Feb-2019 17:18:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a068.d				
Injection Date:	05-Feb-2019 12:18:09	Instrument ID:	GC70A		
Lims ID:	720-91105-E-17-A	Lab Sample ID:	440-91105-17		
Client ID:	DG-AN13S-9.5-10				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a063.d				
Lims ID:	720-91105-E-20-A				
Client ID:	DUP-111				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 10:30:49	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:35:55	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				
First Level Reviewer: doanm		Date:	05-Feb-2019 11:36:42		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.596	(1.988-7.203)		16666185	4601.2	
$ 127 n-Octacosane	7.072	7.022	0.050	301755	82.0	a
A 135 C24-C36	7.448	(5.797-9.100)		20392844	5630.1	

QC Flag Legend

Review Flags
a - User Assigned ID

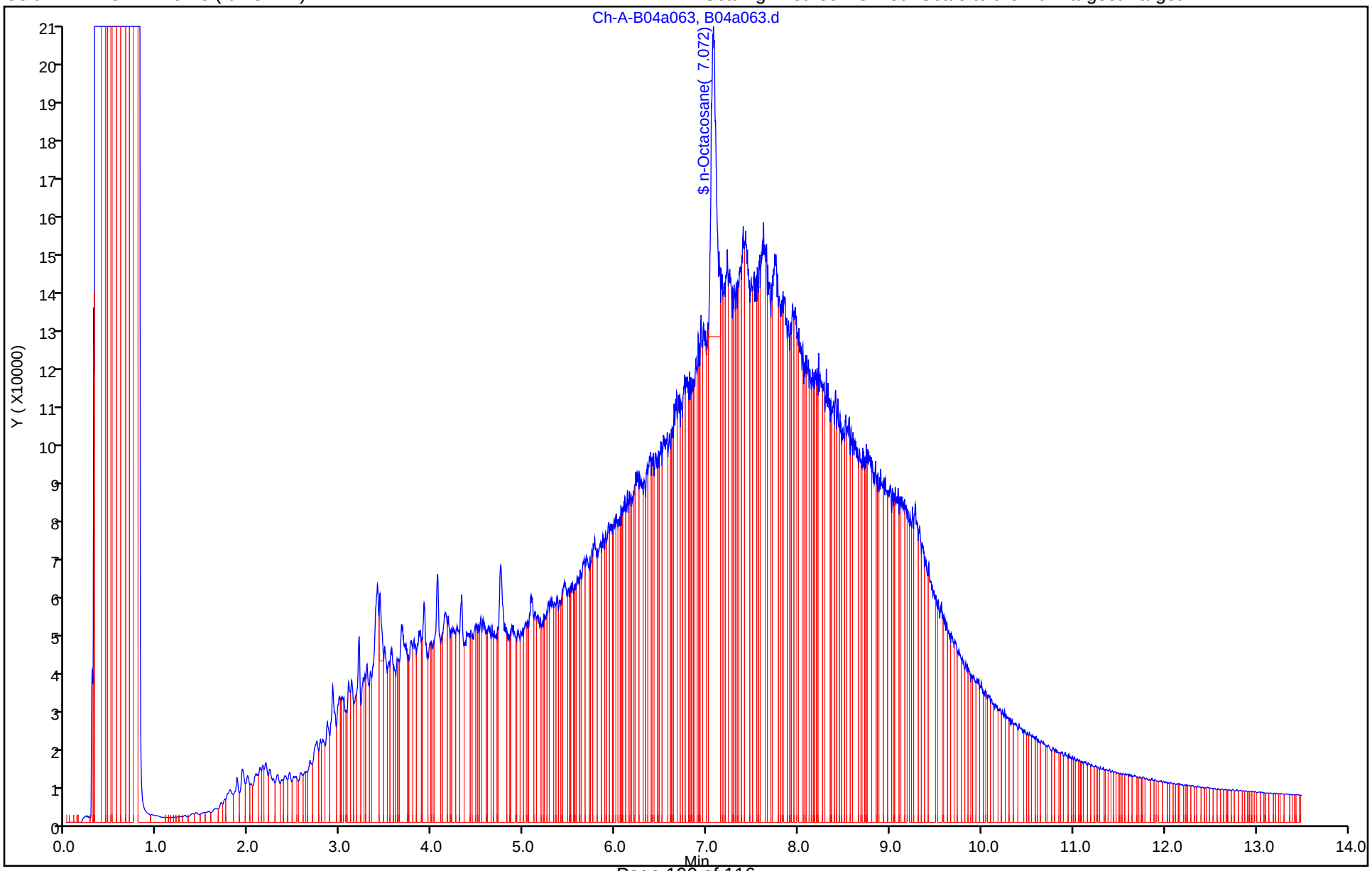
Report Date: 05-Feb-2019 11:36:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a063.d

Injection Date:	05-Feb-2019 10:30:49	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91105-E-20-A	Lab Sample ID:	440-91105-20	Worklist Smp#:	63
Client ID:	DUP-111				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a063.d				
Lims ID:	720-91105-E-20-A				
Client ID:	DUP-111				
Sample Type:	Client				
Inject. Date:	05-Feb-2019 10:30:49	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	05-Feb-2019 11:35:55	Calib Date:	28-Dec-2018 09:34:49		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20181228-113628.b\L28a006.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0328				

First Level Reviewer: doanm Date: 05-Feb-2019 11:36:42

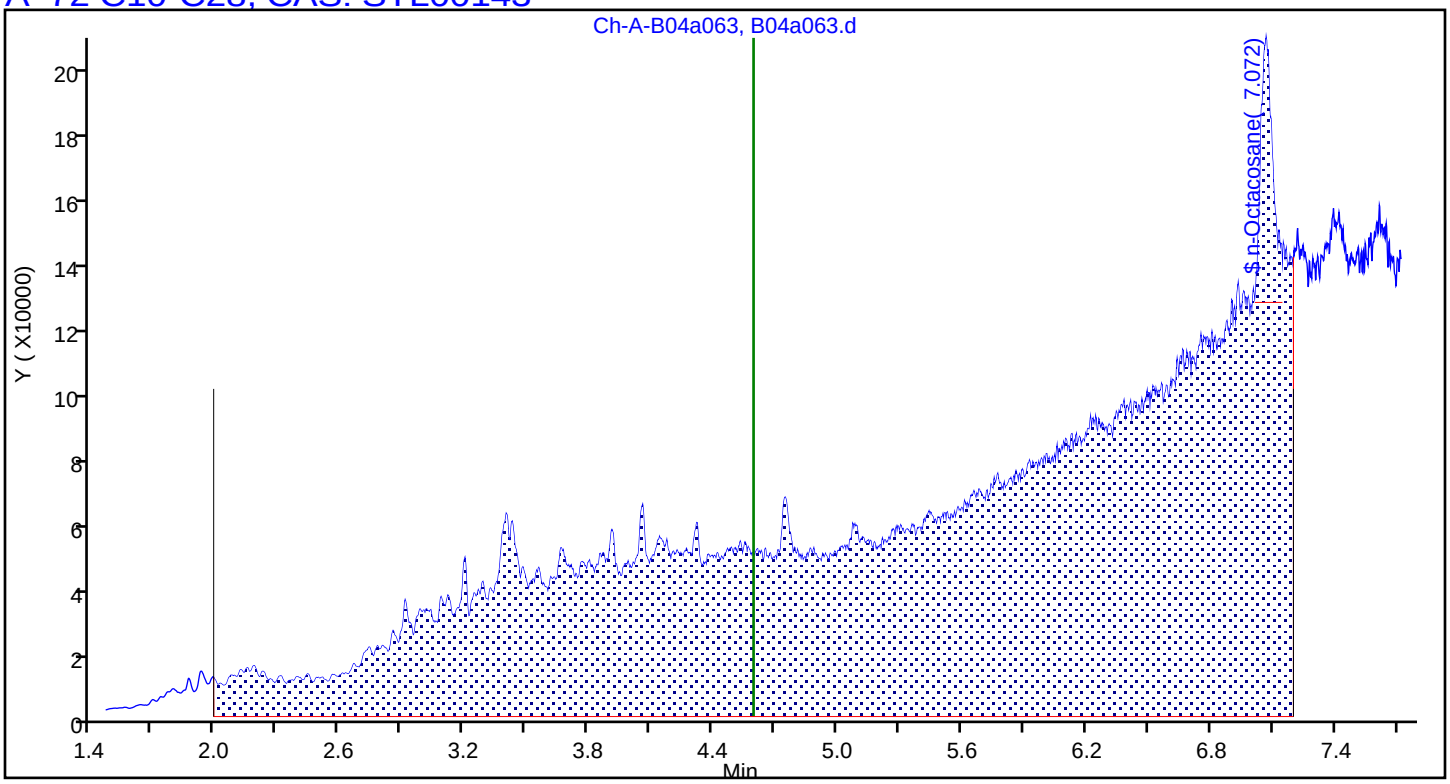
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	82.0	82.02
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 05-Feb-2019 11:36:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a063.d				
Injection Date:	05-Feb-2019 10:30:49	Instrument ID:	GC70A		
Lims ID:	720-91105-E-20-A	Lab Sample ID:	440-91105-20		
Client ID:	DUP-111				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

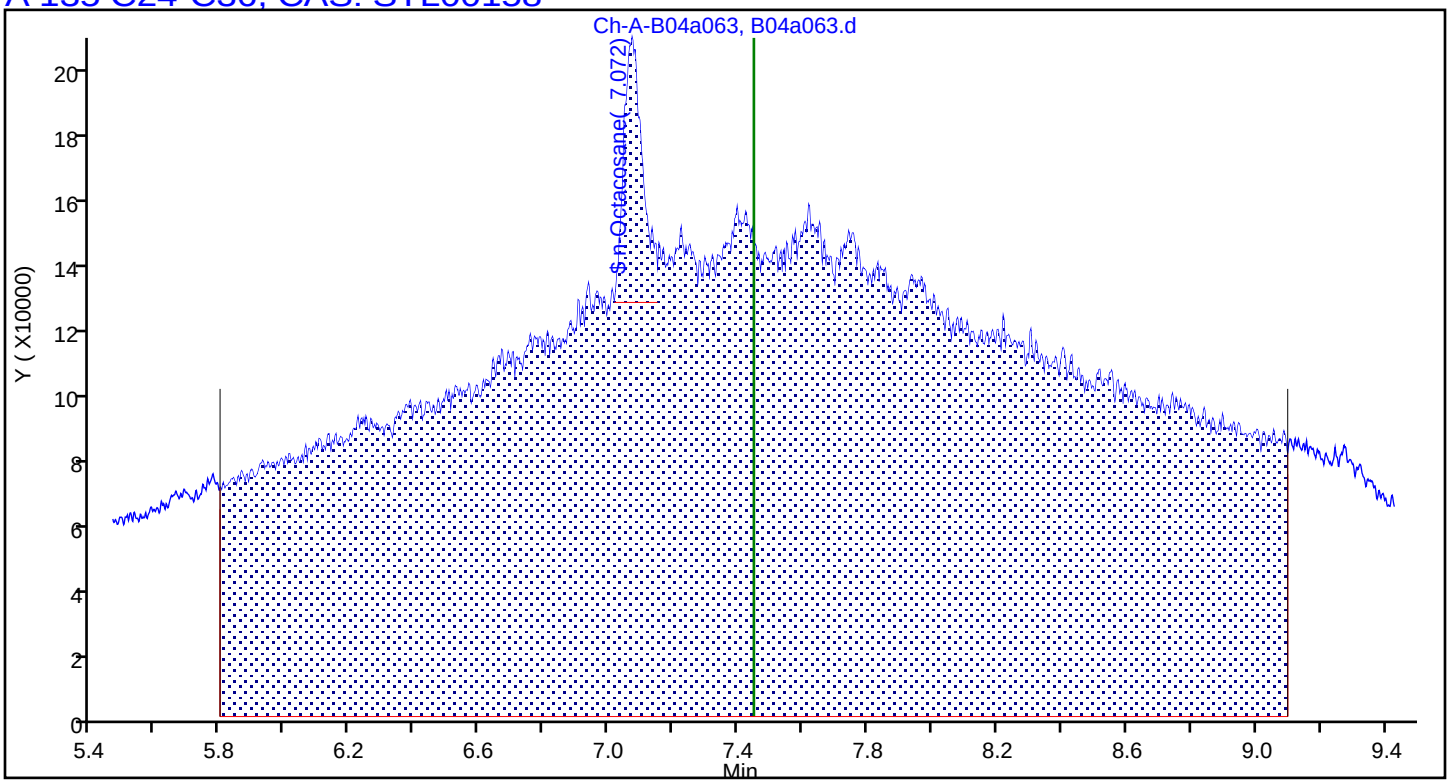


Report Date: 05-Feb-2019 11:36:43 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a063.d				
Injection Date:	05-Feb-2019 10:30:49	Instrument ID:	GC70A		
Lims ID:	720-91105-E-20-A	Lab Sample ID:	440-91105-20		
Client ID:	DUP-111				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Irvine

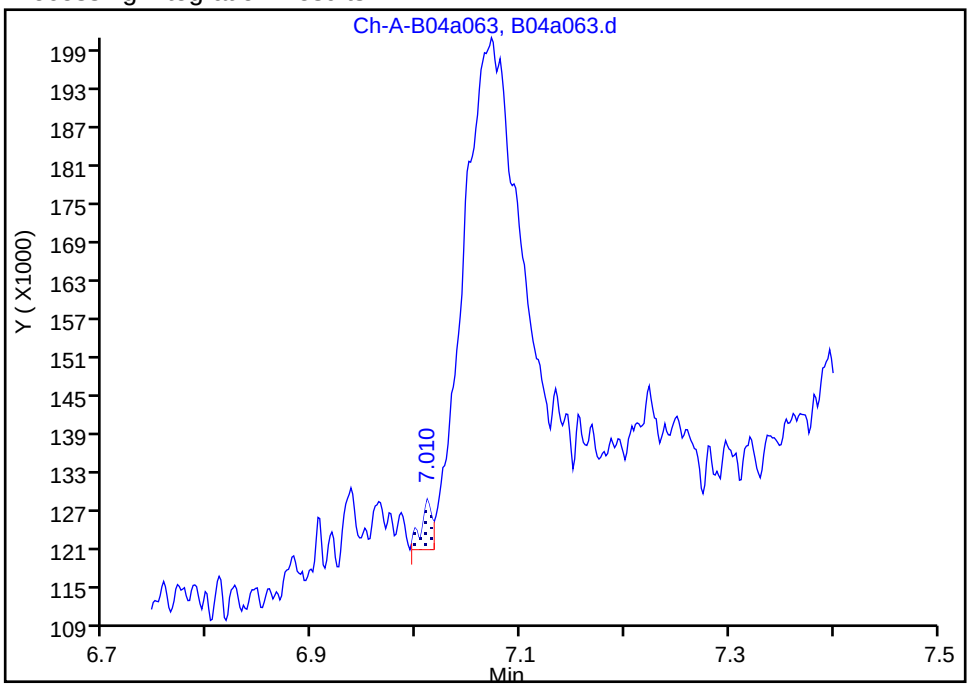
Data File:	\\chromna\Irvine\ChromData\GC70A\20190204-115070.b\B04a063.d				
Injection Date:	05-Feb-2019 10:30:49	Instrument ID:	GC70A		
Lims ID:	720-91105-E-20-A	Lab Sample ID:	440-91105-20		
Client ID:	DUP-111				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

$ 127 n-Octacosane, CAS: 630-02-4

Signal: 1

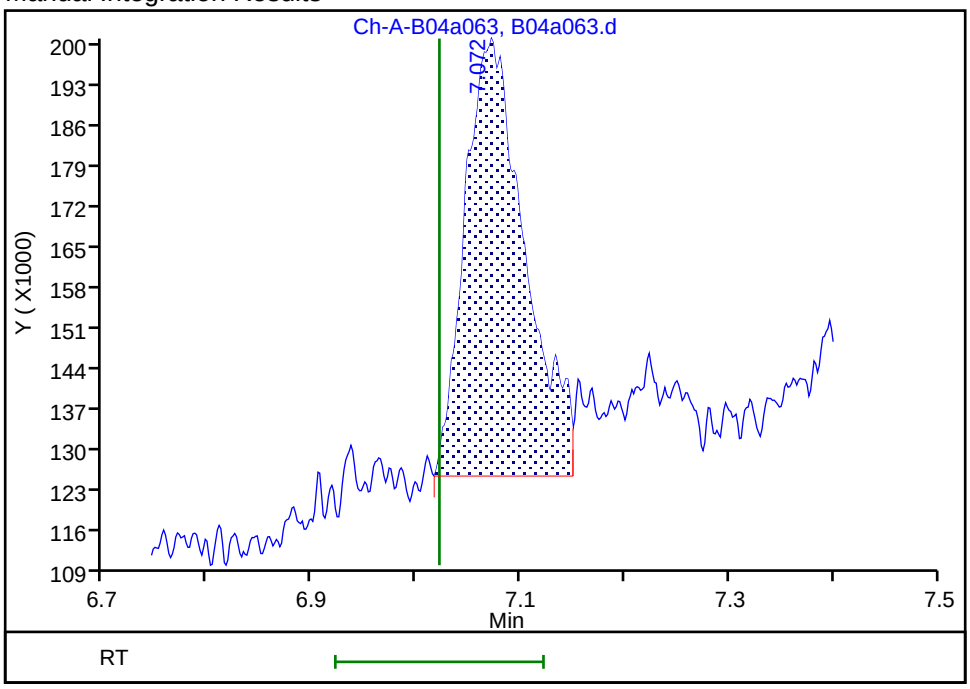
Processing Integration Results

RT: 7.01
Area: 5542
Amount: 1.506440
Amount Units: ug/ml



Manual Integration Results

RT: 7.07
Area: 301755
Amount: 82.023806
Amount Units: ug/ml



Reviewer: doanm, 05-Feb-2019 11:34:34
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-91105

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188206

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Naomi Hirschfeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91105-01 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1. DG-AS11s-0.5-1	31 Jan. 2019	0820	G	S	7	N		X	X	X	X	X	X	X	
2. DG-AS11s-3.5-4		0820													
3. DG-AS11s-7.5-8		0820													
4. DG-AW3s-0.5-1		0945													
5. DG-AW3s-3.5-4		0945													
6. DG-AY3s-0.5-1		1015													
7. DG-AY3s-3.5-4		1015													
8. DG-Y15s-0.5-1		1115													
9. DG-Y15s-3.5-4		1115													
10. DG-Y15s-7.5-8		1115													
11. DG-AC15s-0.5-1		1215													
12. DUP-109	↓	—	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
1.5°C, 1.5°C, 0.8°C, 0.0°C, 2.2°C, 4.1°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd: ____	Therm ID No. ____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Nathan Fabian	GeoSyntec	16:45 31 Jan. 2019		TA PLS	1-31-19 16:25
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	TA PLS	1-31-19 17:45			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
				TA-PLS	1-31-19 18:50

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600 3002

720-91105

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

155246

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 January 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Naomi Hemmfield
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name. Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
13. DG-AC15-0 (MF) -3.5-4	31 Jan. 2019	1215	G	S	7	N		X	X	X	X	X	X	X	
14. DG-AC15-7.5-8		1215													
15. DG-AN13-0.5-1		1300													
16. DG-AN13-3.5-4		1300													
17. DG-AN13-9.5-10		1300													
18. FB-01.31.19		—			2										
19. TB-01.31.19		—			2										
20. DUP-111	31 Jan. 2019	—	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C) Obs'd: ____ Corr'd: ____ Therm ID No: ____			
Relinquished by	Company: Geosyntec	Date/Time: 31 Jan. 2019 16:25	Received by	Company: TA PLS	Date/Time: 1-31-19 16:25
Relinquished by	Company: TA PLS	Date/Time: 1-31-19 18:52	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 1-31-19 18:52

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

GeoSyntec
THVR. Terra Chgs
720-91105

FedEx®

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC04

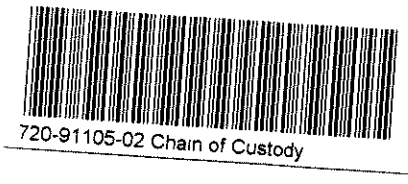
FedEx Express Package(s) - Dropped Off
478645743300

Total Pieces: 1

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

Jan 31, 2019 4:46:42 PM



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3300	COC No: 720-41027 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave. Suite 100,	Due Date Requested: 2/4/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260BCA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/8030B 8260-(MOD) VOCs	8260BCA_LUFTMS/8030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-AS11S-0.5-1 (720-91105-1)	1/31/19	08:20 Pacific		Solid	X	X			
DG-AS11S-3.5-4 (720-91105-2)	1/31/19	08:20 Pacific		Solid	X	X			
DG-AS11S-7.5-8 (720-91105-3)	1/31/19	08:20 Pacific		Solid	X	X			
DG-AW3S-0.5-1 (720-91105-4)	1/31/19	09:45 Pacific		Solid	X	X			
DG-AW3S-3.5-4 (720-91105-5)	1/31/19	09:45 Pacific		Solid	X	X			
DG-AY3S-0.5-1 (720-91105-6)	1/31/19	10:15 Pacific		Solid	X	X			
DG-AY3S-3.5-4 (720-91105-7)	1/31/19	10:15 Pacific		Solid	X	X			
DG-Y15S-0.5-1 (720-91105-8)	1/31/19	11:15 Pacific		Solid	X	X			
DG-Y15S-3.5-4 (720-91105-9)	1/31/19	11:15 Pacific		Solid	X	X			

720-91105 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements: 4786 4574 3300
Empty Kit Relinquished by:	Date: Time: Method of Shipment: FED-EX Dlody RICH

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/31/19 16:46	TA-PLS		2/1/19 10:30	TAK
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes ~~Δ No~~ | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.0 / 3.4 / 1K.8G

Ver: 09/20/2016

Encores Terracores Frozen Date: 2/1/19 Time: 10:45 Initials: AS

4 2/1/19

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 5743 30C	COC No: 720-41027.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			Other:
Email				
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	8082/3546 Standard 8082 PCB Target	8260B_LL/5035A_F_FW_7 8260-(MOD) Organics	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B_LL/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
DG-Y15S-7.5-8 (720-91105-10)	1/31/19	11:15 Pacific		Solid	X	X	X	X			(4) 1/31/19
DG-AC15S-0.5-1 (720-91105-11)	1/31/19	12:15 Pacific		Solid	X	X	X	X			
DUP-109 (720-91105-12)	1/31/19	Pacific		Solid	X	X	X	X			
DG-AC15S-3.5-4 (720-91105-13)	1/31/19	12:15 Pacific		Solid	X	X	X	X			
DG-AC15S-7.5-8 (720-91105-14)	1/31/19	12:15 Pacific		Solid	X	X	X	X			
DG-AN13S-0.5-1 (720-91105-15)	1/31/19	13:00 Pacific		Solid	X	X	X	X			
DG-AN13S-3.5-4 (720-91105-16)	1/31/19	13:00 Pacific		Solid	X	X	X	X			
DG-AN13S-9.5-10 (720-91105-17)	1/31/19	13:00 Pacific		Solid	X	X	X	X			
FB-01.31.19 (720-91105-18)	1/31/19	Pacific		Water					X	X	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED-EX 1/0

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/31/19 16:46	TA-PLS		2/1/19 10:30	TA/RU
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☒ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0/3.4 IR89

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3300	COC No: 720-41027 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			Preservation Codes:
City: Irvine	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

1/31/19

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8082/3546 Standard 8015B-8015B-Hex	8015/3546 (MOD) 8015 (MOD) Standard 1-Dec	8015B_Unspecified (MOD) 8015B-TEPH (DRO and MRO) Organics	Retained Percent Moisture	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Special Instructions/Note:
TB-01.31.19 (720-91105-19)	1/31/19	Pacific		Water							X	X	check for 2 phases
DUP-111 (720-91105-20)	1/31/19	Pacific		Solid	X	X	X	X	X	X			(4) 1/31/19

1/31/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEX D/D

Relinquished by:	Date/Time: 1/31/19 16:46	Company: TA-PLS	Received by:	Date/Time: 2/1/19 10:30	Company: TA/RV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes ☒ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0/3.4 IR 8

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91105

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

188206

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Nawal Hawkins
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahriles@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91105-01 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes:
1. DG-AS11s-0.5-1	31 Jan. 2019	0820	G	S	7	N		X	X	X	X	X	X	X	
2. DG-AS11s-3.5-4		0820													
3. DG-AS11s-7.5-8		0820													
4. DG-AW3s-0.5-1		0945													
5. DG-AW3s-3.5-4		0945													
6. DG-AY3s-0.5-1		1015													
7. DG-AY3s-3.5-4		1015													
8. DG-Y15s-0.5-1		1115													
9. DG-Y15s-3.5-4		1115													
10. DG-Y15s-7.5-8		1115													
11. DG-AC15s-0.5-1		1215													
12. DUP-109	↓	—	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
1.5°C, 1.5°C, 0.8°C, 6.0°C, 2.2°C, 4.1°C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:		Company: GeoSyntec	Date/Time: 14:25 31 Jan. 2019	Received by:	Company: TA PLS	Date/Time: 1-31-19 16:25
Relinquished by:		Company: TA PLS	Date/Time: 18:50 1-31-19	Received by:	Company:	Date/Time:
Relinquished by:		Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-31-19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

720-91105

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

#188206

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 31 January 2019	COC No:
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler: Naomi Hemsfeld
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client:
bchen@geosyntec.com, mkahnles@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.:
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes.
13. DG-AC15 ~~-0.5~~ -3.5-4	31 Jan. 2019	1215	G	S	7	N		X	X	X	X	X	X	X	
14. DG-AC15-7.5-8		1215													
15. DG-AN13-0.5-1		1300													
16. DG-AN13-3.5-4		1300													
17. DG-AN13-9.5-10		1300													
18. FB-01.31.19		—			2										
19. TB-01.31.19		—			2										
20. DUP-111	31 Jan. 2019	—	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C) Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Naomi Fabila	Company: Geosyntec	Date/Time: 31 Jan. 2019 16:25	Received by:	Company: TA PLS	Date/Time: 1-31-19 1625
Relinquished by:	Company: TA PLS	Date/Time: 1-31-19 18:40	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 1-31-19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

GEOSYNTEC
THVR. TERRA CHES
720-91105

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC04

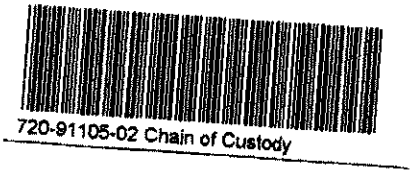
FedEx Express Package(s) - Dropped Off
478645743300

Total Pieces: 1

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1.800.463.3339

Jan 31, 2019 4:46:42 PM



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-41027.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_F_FW_7 8260-(MOD) VOCs + ORG	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
DG-AS11S-0.5-1 (720-91105-1)	1/31/19	08:20 Pacific		Solid			X	X	X	X	X	X			2	1
DG-AS11S-3.5-4 (720-91105-2)	1/31/19	08:20 Pacific		Solid			X	X	X	X	X	X			2	
DG-AS11S-7.5-8 (720-91105-3)	1/31/19	08:20 Pacific		Solid			X	X	X	X	X	X			2	
DG-AW3S-0.5-1 (720-91105-4)	1/31/19	09:45 Pacific		Solid			X	X	X	X	X	X			2	
DG-AW3S-3.5-4 (720-91105-5)	1/31/19	09:45 Pacific		Solid			X	X	X	X	X	X			2	
DG-AY3S-0.5-1 (720-91105-6)	1/31/19	10:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-AY3S-3.5-4 (720-91105-7)	1/31/19	10:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-Y15S-0.5-1 (720-91105-8)	1/31/19	11:15 Pacific		Solid			X	X	X	X	X	X			2	
DG-Y15S-3.5-4 (720-91105-9)	1/31/19	11:15 Pacific		Solid			X	X	X	X	X	X			2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2/01/19 1233	TAPLS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/2/19 1045	Company TA-IRV

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks
	0 5 4786 4574 3491	2.8/2.8 IR-88

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No. 720-41027.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B-C5035A_F_FW_7 8260-(MOD)VOCs + 5ARO	8260BCA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD)-VOCs	8260BCA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
DG-Y15S-7.5-8 (720-91105-10)	1/31/19	11:15 Pacific		Solid			X	X	X	X	X	X			5	
DG-AC15S-0.5-1 (720-91105-11)	1/31/19	12:15 Pacific		Solid			X	X	X	X	X	X			5	
DUP-109 (720-91105-12)	1/31/19	Pacific		Solid			X	X	X	X	X	X			5	
DG-AC15S-3.5-4 (720-91105-13)	1/31/19	12:15 Pacific		Solid			X	X	X	X	X	X			5	
DG-AC15S-7.5-8 (720-91105-14)	1/31/19	12:15 Pacific		Solid			X	X	X	X	X	X			5	
DG-AN13S-0.5-1 (720-91105-15)	1/31/19	13:00 Pacific		Solid			X	X	X	X	X	X			5	
DG-AN13S-3.5-4 (720-91105-16)	1/31/19	13:00 Pacific		Solid			X	X	X	X	X	X			5	
DG-AN13S-9.5-10 (720-91105-17)	1/31/19	13:00 Pacific		Solid			X	X	X	X	X	X			5	
~~FB-01.31.19 (720-91105-18)~~	~~1/31/19~~	~~Pacific~~		Water									X	X	~~2~~	~~check for 2 phases~~

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2/01/19 1233	Company: TAPLS	Received by: / Date/Time / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: 2/2/19 1047 / Company: TA-PLS

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks.

Ver. 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41027.3
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91105-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/4/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8081A/3546 (MOD) 8081-(MOD) Standard List	8015B_DRO/3546 (MOD) 8015B-TEPH (DRO and MRO) Organics	Moisture/ Percent Moisture	8260B_LL/5035A_F_FW_7 8260-(MOD)-VOC-4 GRO	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOC	8260BCA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
Preservation Code:																
~~TB-01-31-19 (720-91105-19)~~	~~1/31/19~~	~~Pacific~~		~~Water~~									X	X		check for 2 phases 1/31/19
DUP-111 (720-91105-20)	1/31/19	Pacific		Solid			X	X	X	X	X	X			2	1/31/19

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/1/19 1233	Company: TAPLS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/2/19	Company: TAL-IRV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91128-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
2/26/2019 1:12 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/26/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-91128-1

Comments
Client confirmed that sample ID on label should be used for login.

Receipt
The samples were received on 2/1/2019 4:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0º C and 1.4º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 720-91128 (#5) DG-AD15W. The container labels list DG-AD13W time 1120 the COC lists DG-AD15W time 1120.
Logged using pretyped sample label sample ID.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528653 recovered above the upper control limit for 1,1-Dichloroethene and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-528653 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-528576 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-AD13W (720-91128-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: Surrogate Nitrobenzene-d5 recovery for the following samples were outside control limits: DG-AC15W (720-91128-2) and DUP-93 (720-91128-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following sample was diluted due to the nature of the sample matrix: high hydrocarbons DG-AN13W (720-91128-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following 8015-DRO sample required a dilution due to the nature of the sample matrix: DG-AD13W (720-91128-5) and DUP-93 (720-91128-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-259741 and analytical batch 720-259875 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259741 and analytical batch 720-259997 were outside control limits. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The method blank for preparation batch 720-259741 and analytical batch 720-259997 contained Barium and Copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with

8015B_DRO preparation batch 440-527042. LCS was performed in duplicate to provide precision of data.

Method 3510C: 8015B_DRO: Due to the matrix, the following samples could not be concentrated to the final method required volume: DG-AC15W (720-91128-2), DG-AD13W (720-91128-5) and DUP-93 (720-91128-9). The reporting limits (RLs) are elevated proportionately.

Method 3520C: 8270C-SIM-PAH: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-527285. LCS was performed in duplicate to provide precision of data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a022.d				
Lims ID:	720-91128-F-1-A				
Client ID:	DG-AY3W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 19:05:40	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 20:36:32	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	07-Feb-2019 20:36:32		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		1881641	519.5	
$ 127 n-Octacosane	7.022	7.033	-0.011	573572	155.9	
A 135 C24-C36	7.468	(5.837-9.098)		1878300	518.6	

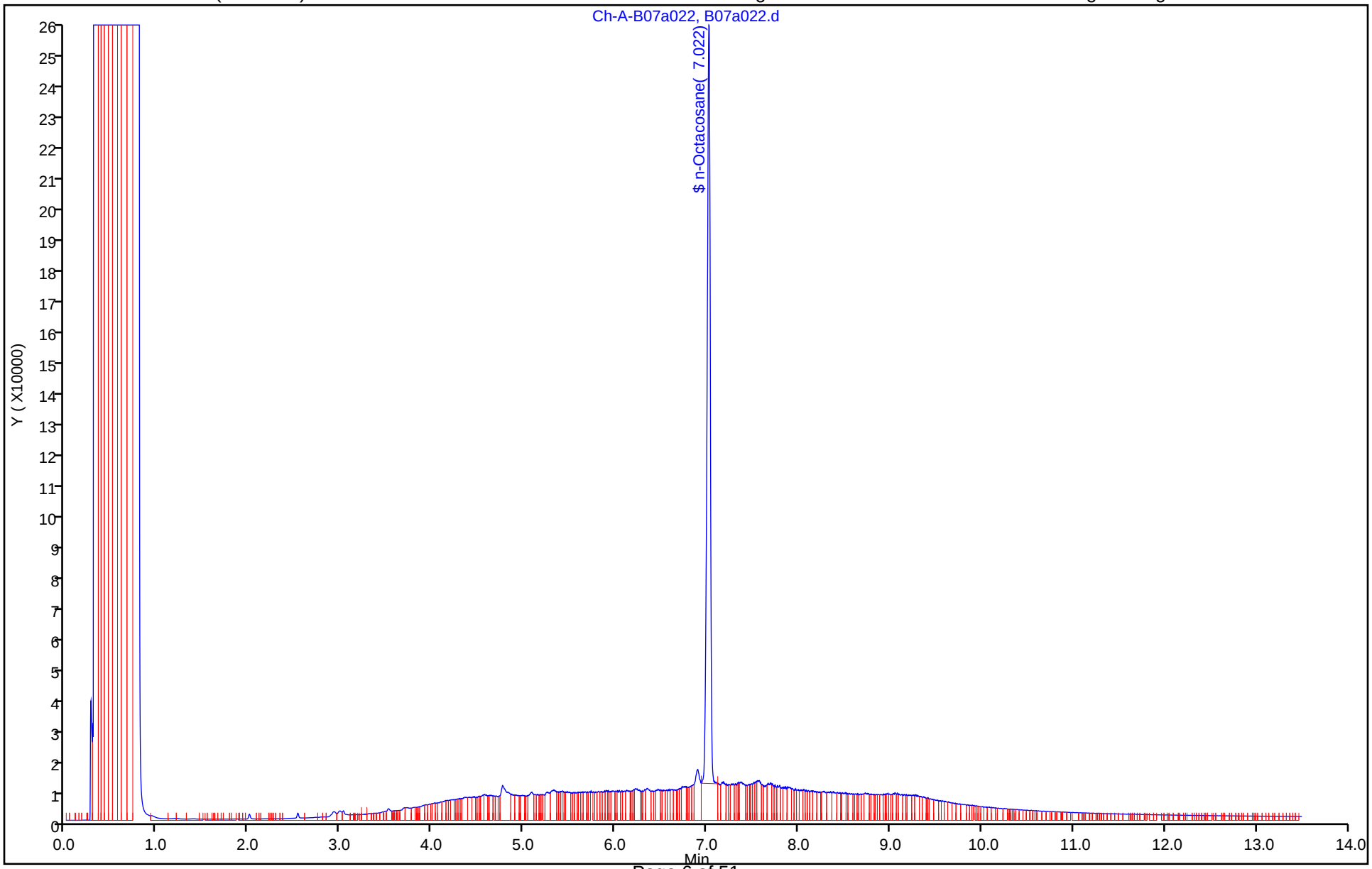
Report Date: 07-Feb-2019 20:36:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a022.d

Injection Date:	07-Feb-2019 19:05:40	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-F-1-A	Lab Sample ID:	440-91128-1	Worklist Smp#:	22
Client ID:	DG-AY3W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a022.d				
Lims ID:	720-91128-F-1-A				
Client ID:	DG-AY3W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 19:05:40	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 20:36:32	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 07-Feb-2019 20:36:32

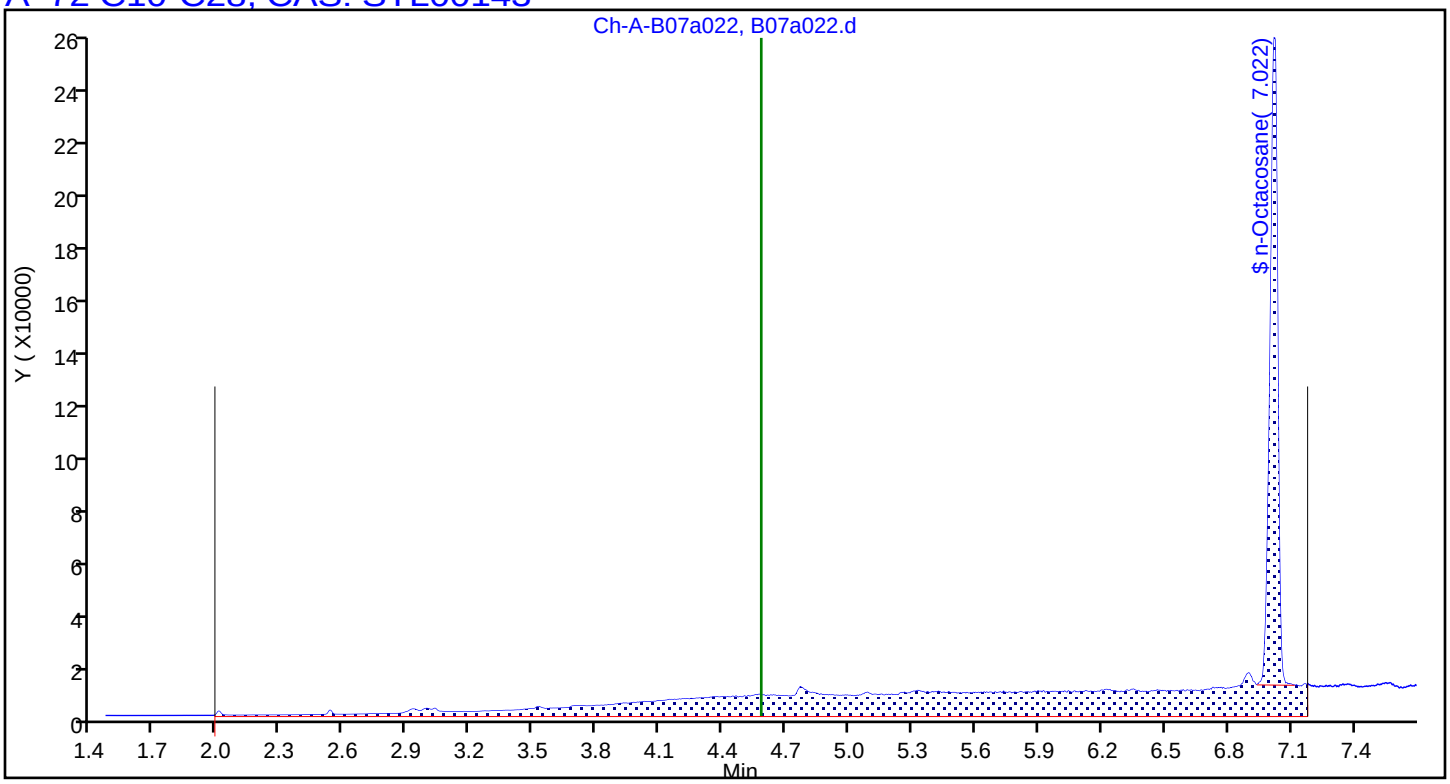
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	155.9	77.95
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 20:36:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a022.d				
Injection Date:	07-Feb-2019 19:05:40	Instrument ID:	GC70A		
Lims ID:	720-91128-F-1-A	Lab Sample ID:	440-91128-1		
Client ID:	DG-AY3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

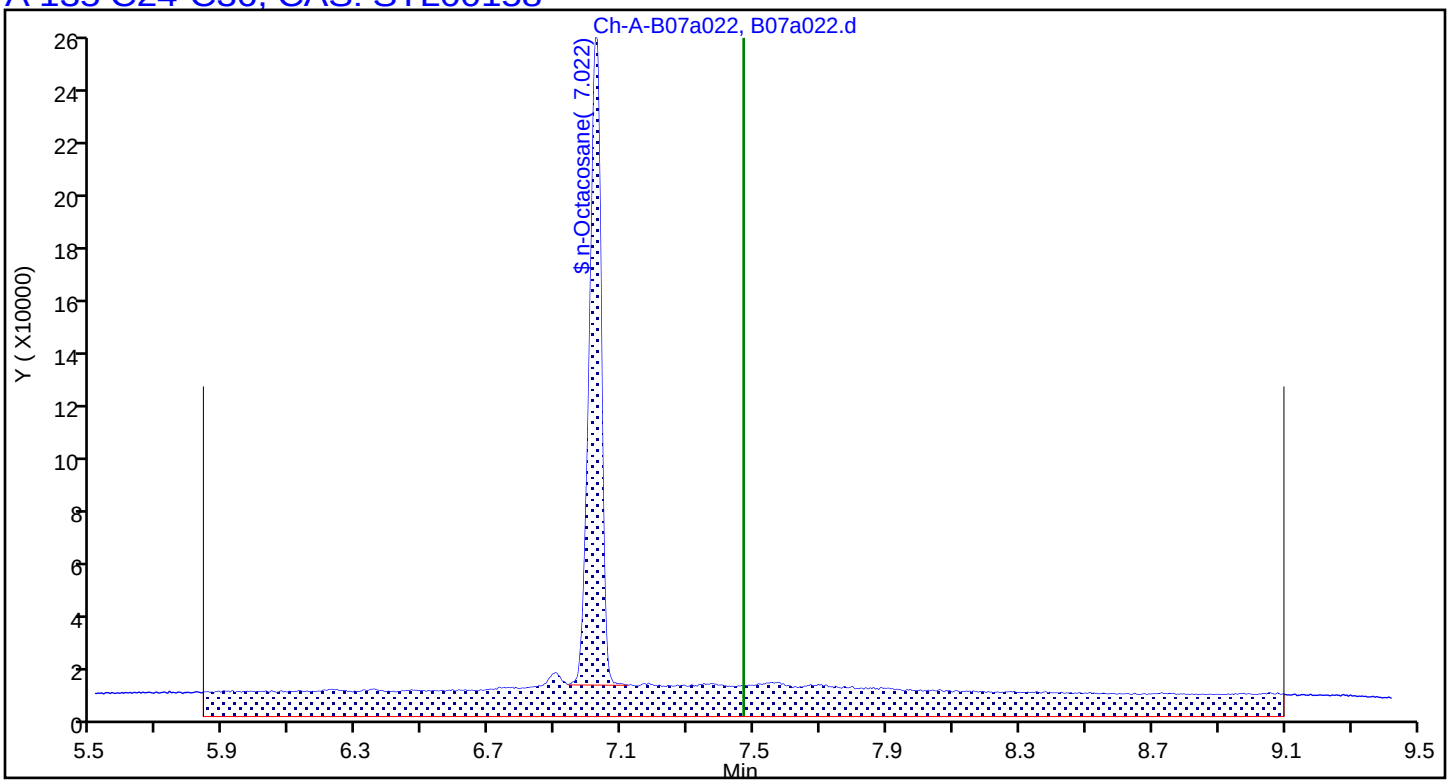


Report Date: 07-Feb-2019 20:36:32 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a022.d				
Injection Date:	07-Feb-2019 19:05:40	Instrument ID:	GC70A		
Lims ID:	720-91128-F-1-A	Lab Sample ID:	440-91128-1		
Client ID:	DG-AY3W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a023.d				
Lims ID:	720-91128-E-2-A				
Client ID:	DG-AC15W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 19:27:07	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 20:36:49	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	07-Feb-2019 20:36:49		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		11598266	3202.1	
$ 127 n-Octacosane	7.023	7.033	-0.010	281194	76.4	
A 135 C24-C36	7.468	(5.837-9.098)		6516398	1799.1	

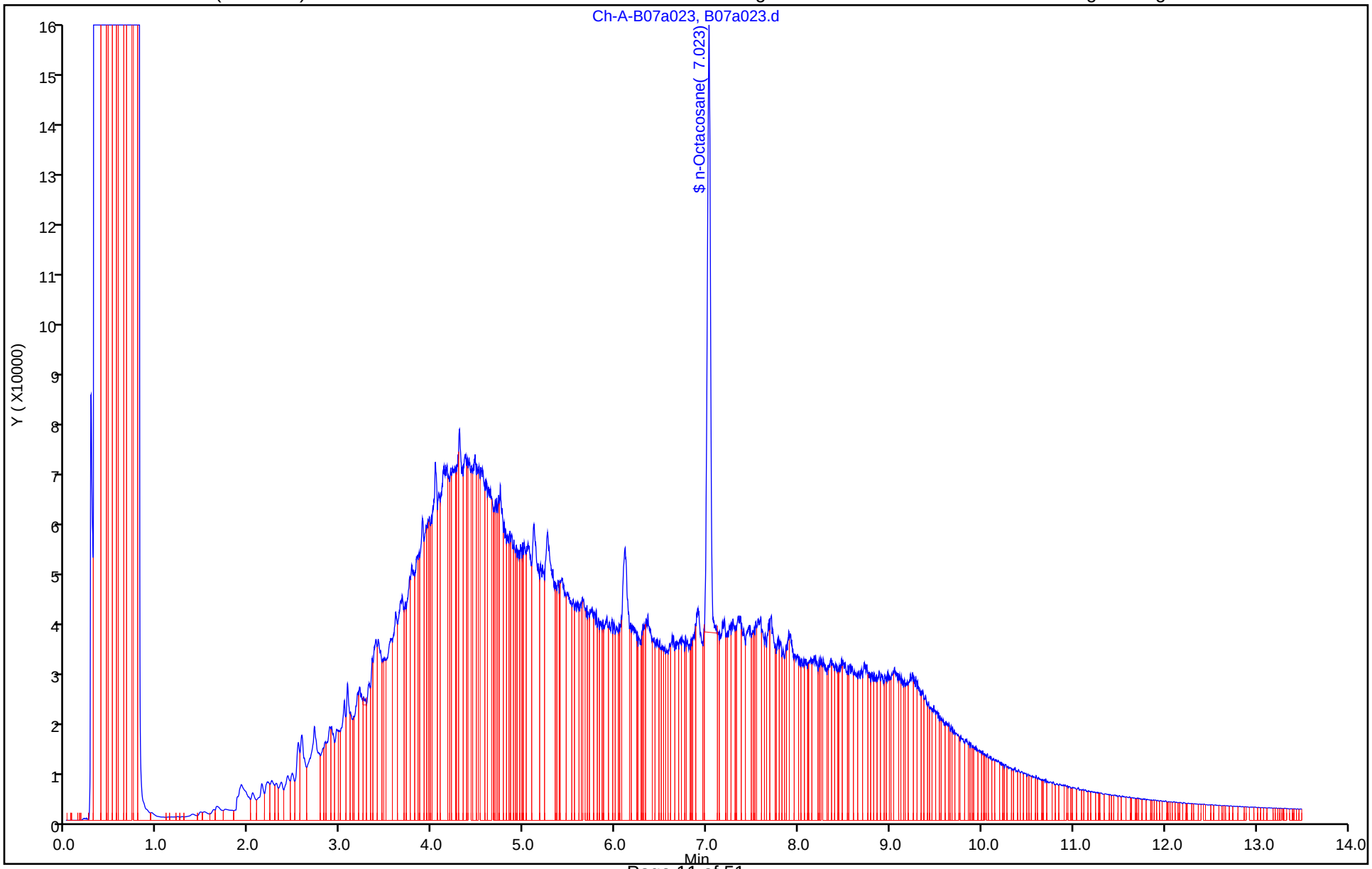
Report Date: 07-Feb-2019 20:36:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a023.d

Injection Date:	07-Feb-2019 19:27:07	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-E-2-A	Lab Sample ID:	440-91128-2	Worklist Smp#:	23
Client ID:	DG-AC15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a023.d				
Lims ID:	720-91128-E-2-A				
Client ID:	DG-AC15W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 19:27:07	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 20:36:49	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 07-Feb-2019 20:36:49

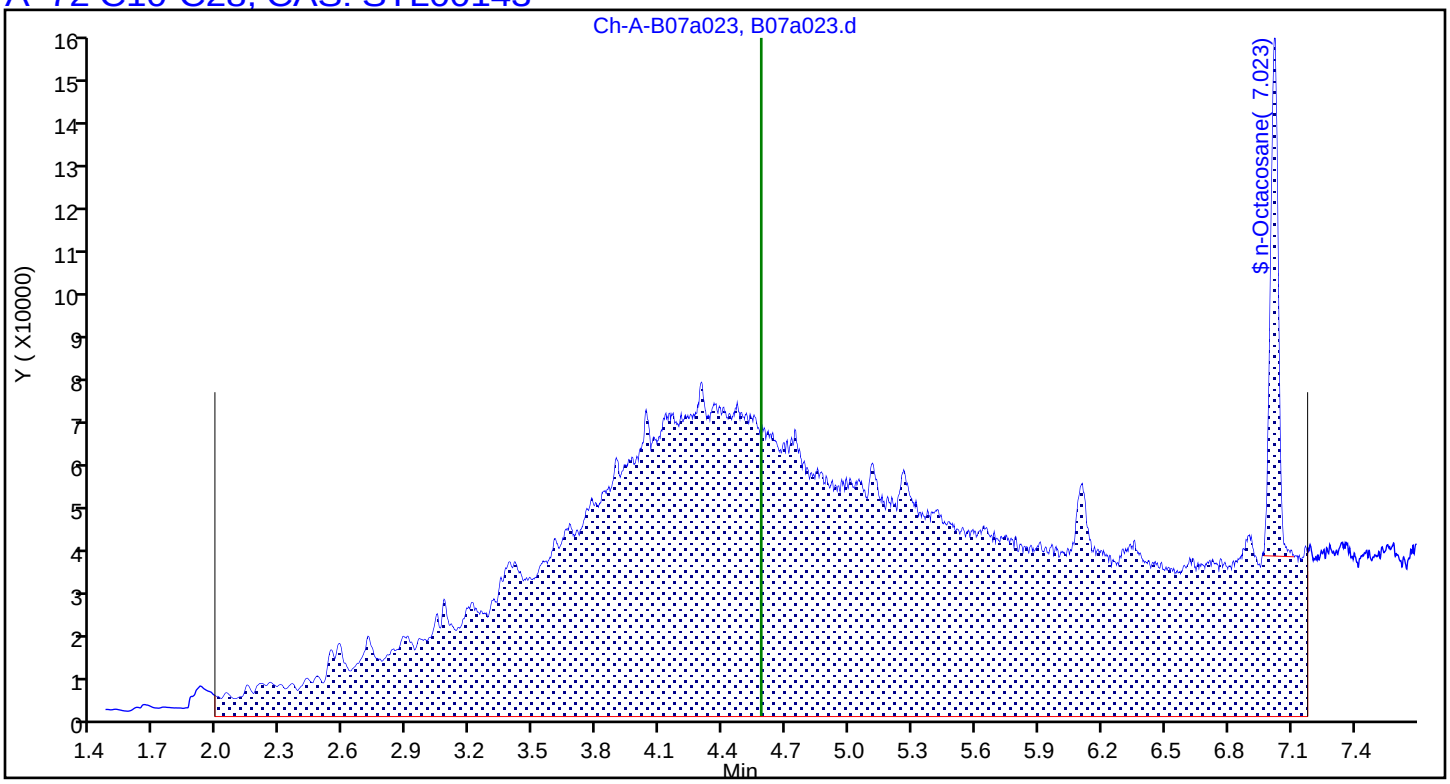
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	76.4	76.43
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 20:36:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a023.d				
Injection Date:	07-Feb-2019 19:27:07	Instrument ID:	GC70A		
Lims ID:	720-91128-E-2-A	Lab Sample ID:	440-91128-2		
Client ID:	DG-AC15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

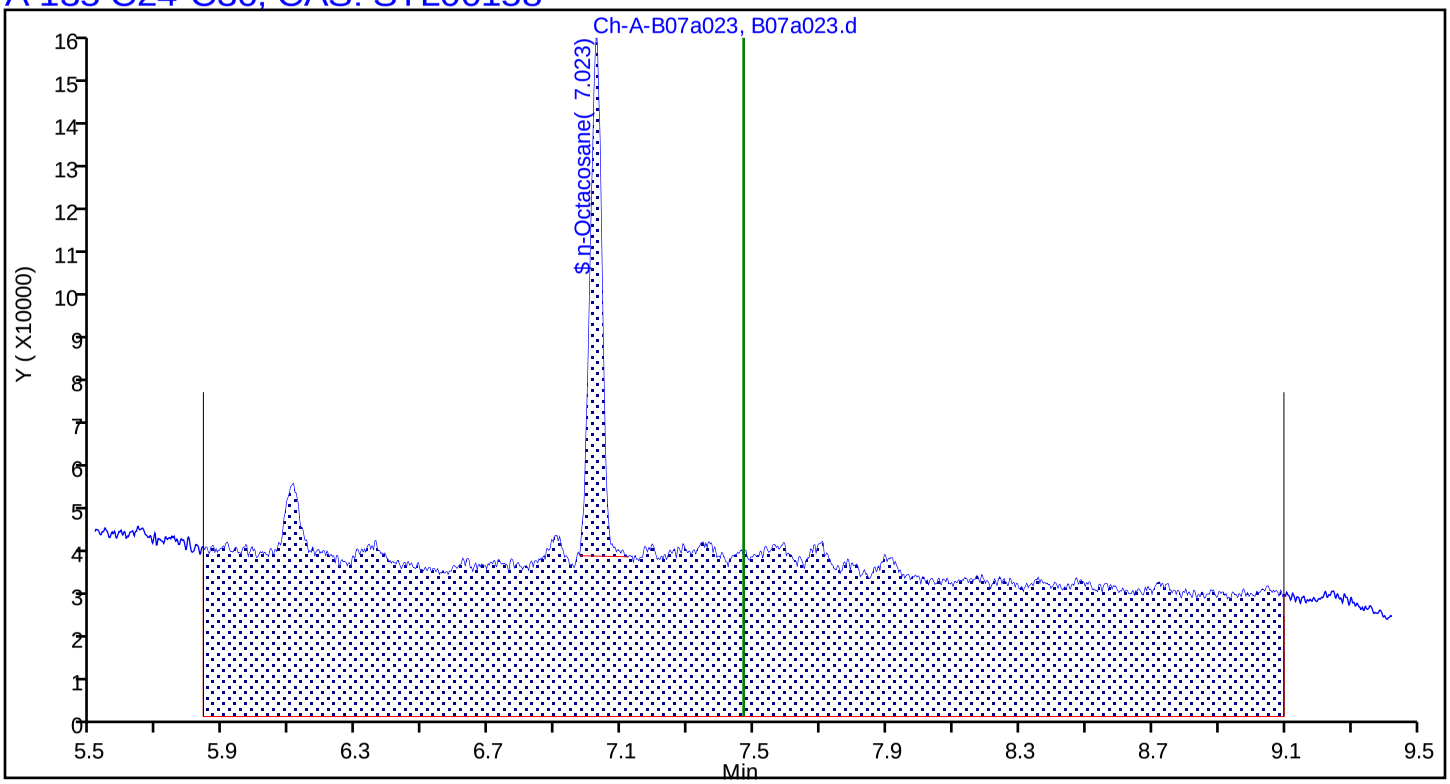


Report Date: 07-Feb-2019 20:36:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a023.d				
Injection Date:	07-Feb-2019 19:27:07	Instrument ID:	GC70A		
Lims ID:	720-91128-E-2-A	Lab Sample ID:	440-91128-2		
Client ID:	DG-AC15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a030.d				
Lims ID:	720-91128-G-3-A				
Client ID:	DG-AN13W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 21:56:31	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:46:01	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:46:01		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		4544758	1254.7	
$ 127 n-Octacosane	7.022	7.033	-0.011	488069	132.7	
A 135 C24-C36	7.468	(5.837-9.098)		1610392	444.6	

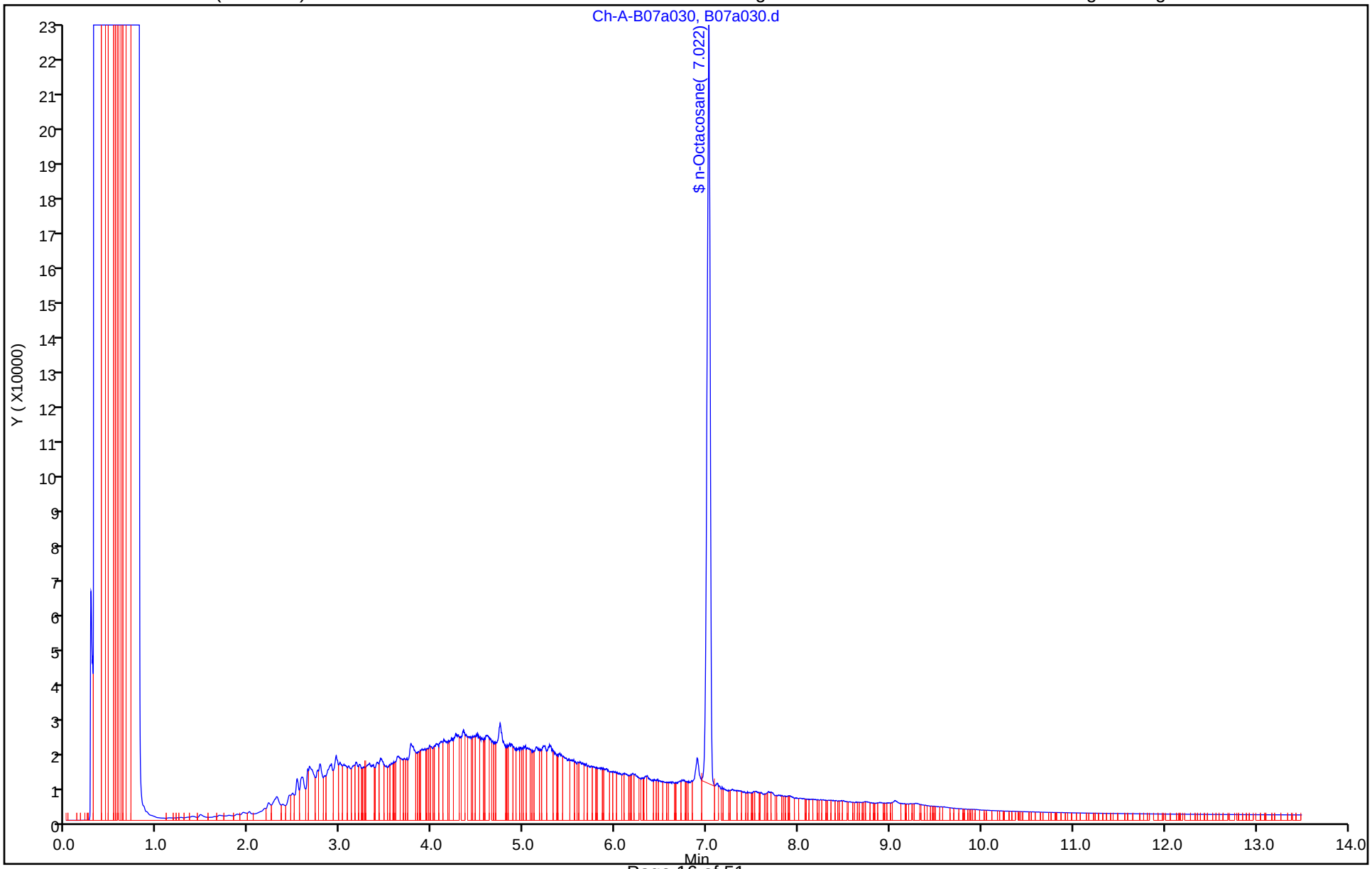
Report Date: 08-Feb-2019 07:46:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a030.d

Injection Date:	07-Feb-2019 21:56:31	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-G-3-A	Lab Sample ID:	440-91128-3	Worklist Smp#:	30
Client ID:	DG-AN13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a030.d				
Lims ID:	720-91128-G-3-A				
Client ID:	DG-AN13W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 21:56:31	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:46:01	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				

First Level Reviewer: doanm Date: 08-Feb-2019 07:46:01

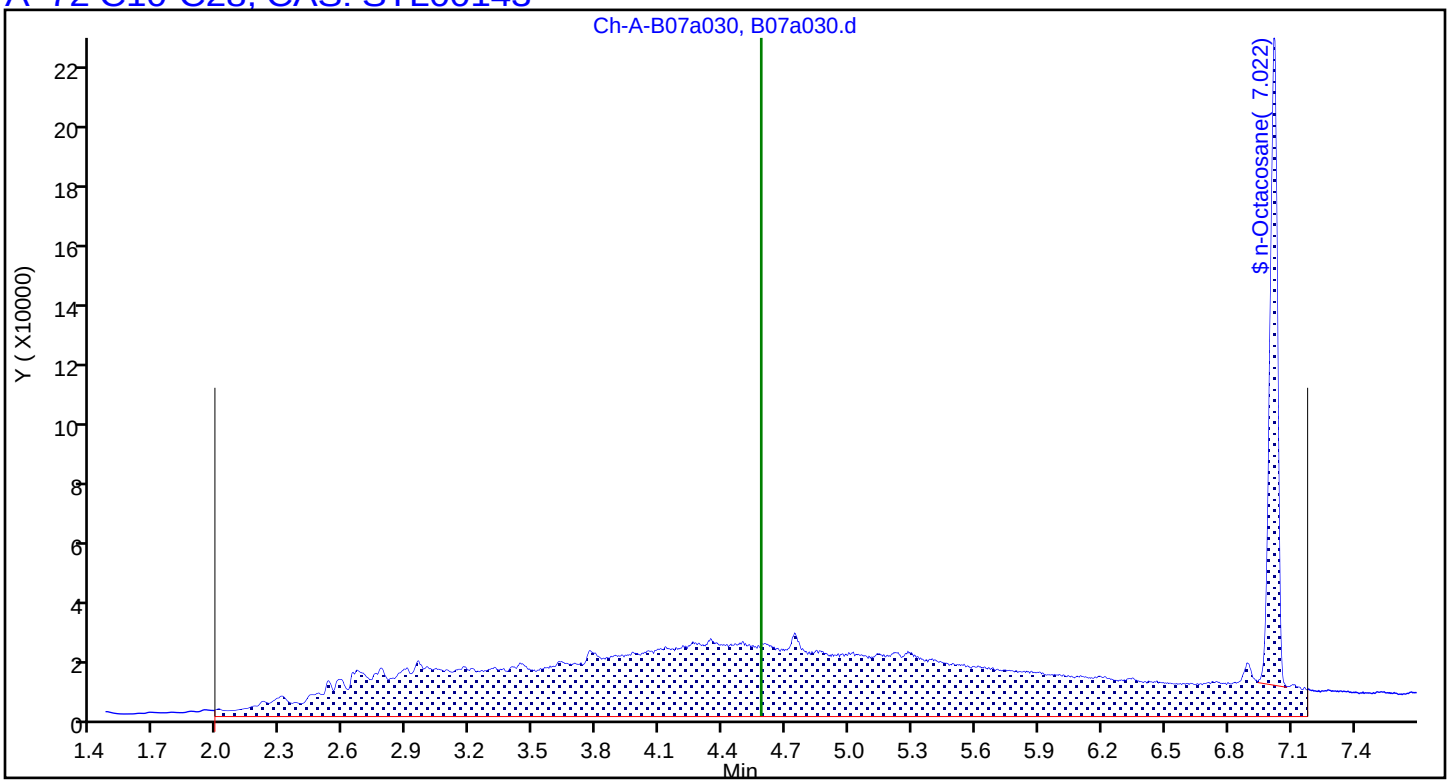
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	132.7	66.33
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 08-Feb-2019 07:46:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a030.d				
Injection Date:	07-Feb-2019 21:56:31	Instrument ID:	GC70A		
Lims ID:	720-91128-G-3-A	Lab Sample ID:	440-91128-3		
Client ID:	DG-AN13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

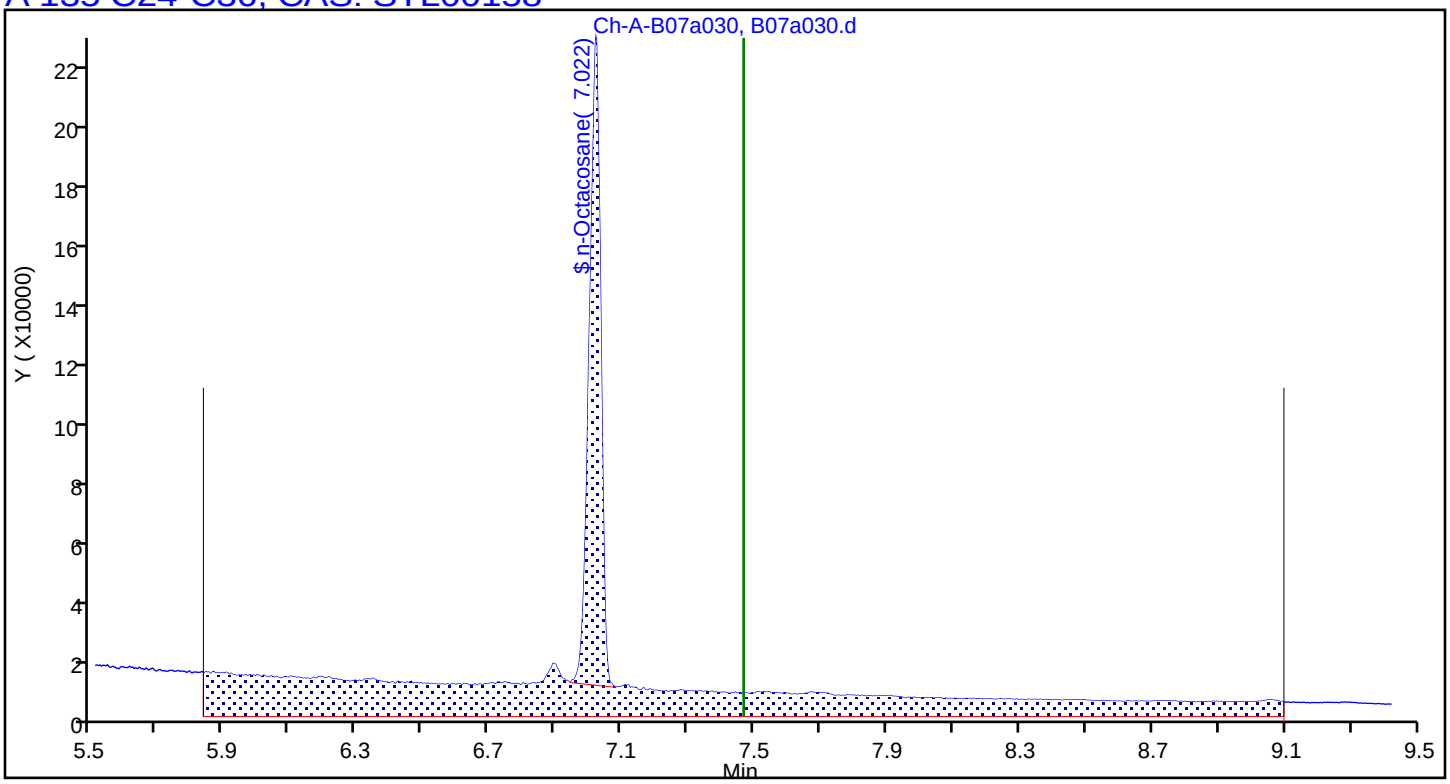


Report Date: 08-Feb-2019 07:46:02 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a030.d				
Injection Date:	07-Feb-2019 21:56:31	Instrument ID:	GC70A		
Lims ID:	720-91128-G-3-A	Lab Sample ID:	440-91128-3		
Client ID:	DG-AN13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a031.d				
Lims ID:	720-91128-G-4-A				
Client ID:	DG-Y15W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 22:17:50	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:46:15	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:46:15		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		14648857	4044.3	
$ 127 n-Octacosane	7.040	7.033	0.007	597916	162.5	
A 135 C24-C36	7.468	(5.837-9.098)		10065667	2778.9	

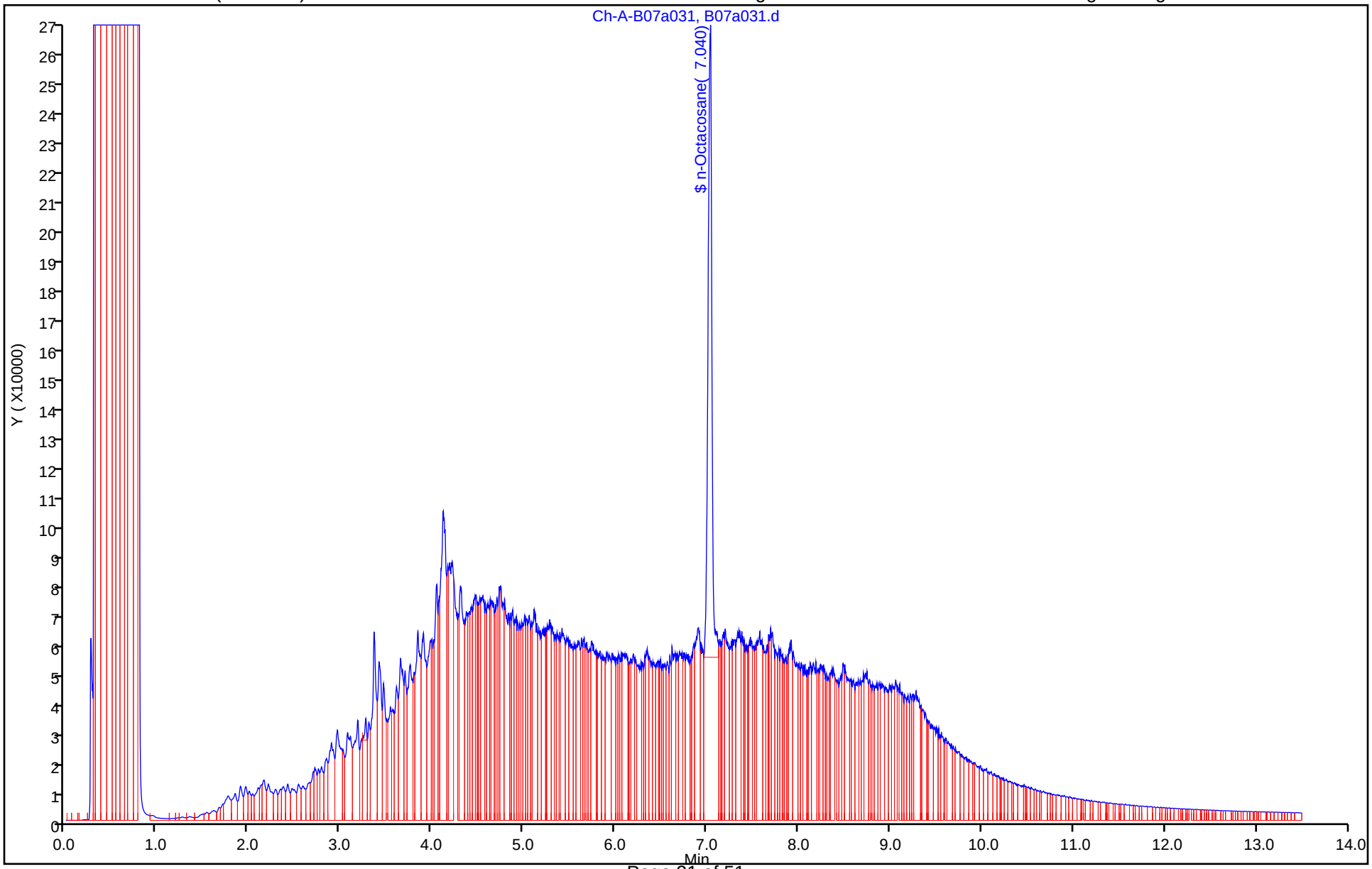
Report Date: 08-Feb-2019 07:46:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a031.d

Injection Date:	07-Feb-2019 22:17:50	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-G-4-A	Lab Sample ID:	440-91128-4	Worklist Smp#:	31
Client ID:	DG-Y15W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a031.d				
Lims ID:	720-91128-G-4-A				
Client ID:	DG-Y15W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 22:17:50	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:46:15	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				

First Level Reviewer: doanm Date: 08-Feb-2019 07:46:15

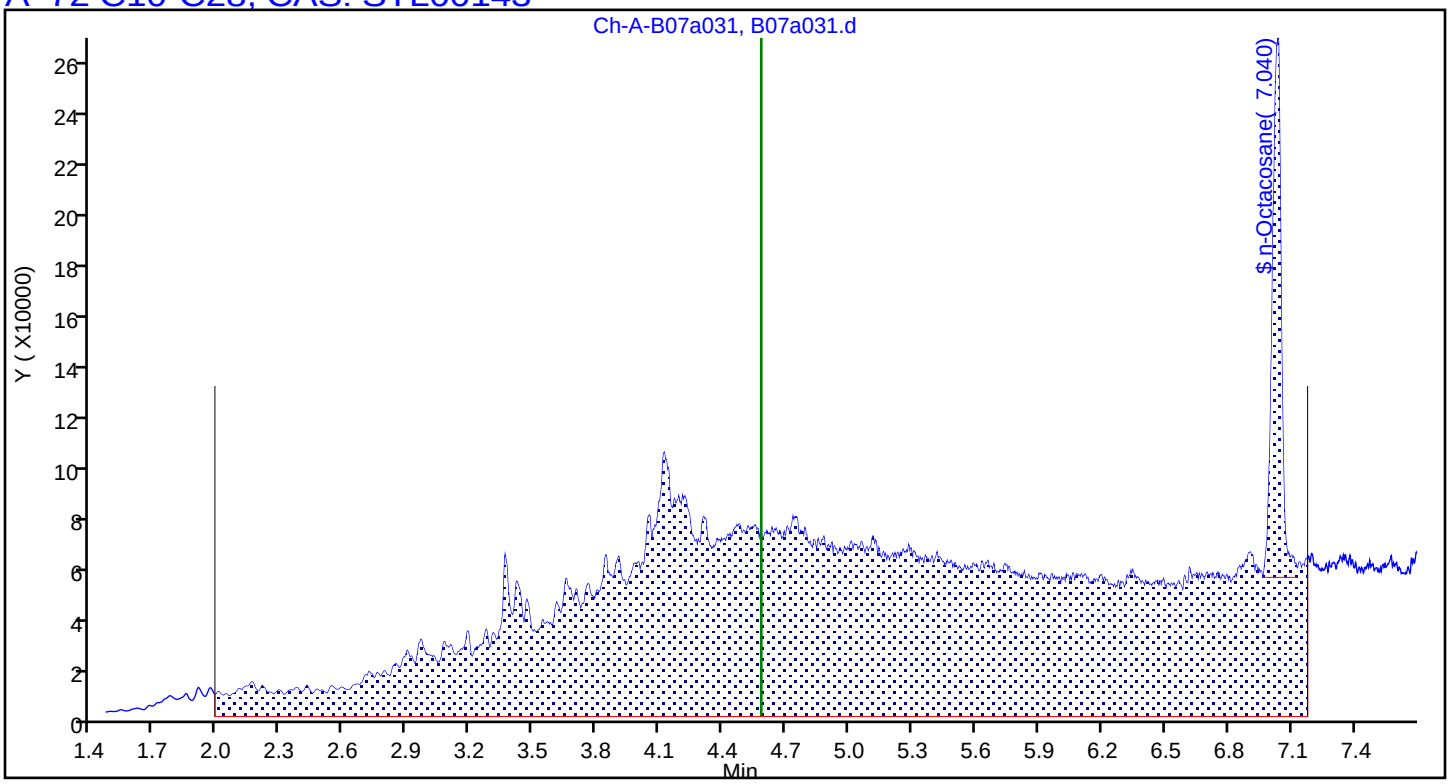
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	162.5	81.26
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 08-Feb-2019 07:46:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a031.d				
Injection Date:	07-Feb-2019 22:17:50	Instrument ID:	GC70A		
Lims ID:	720-91128-G-4-A	Lab Sample ID:	440-91128-4		
Client ID:	DG-Y15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

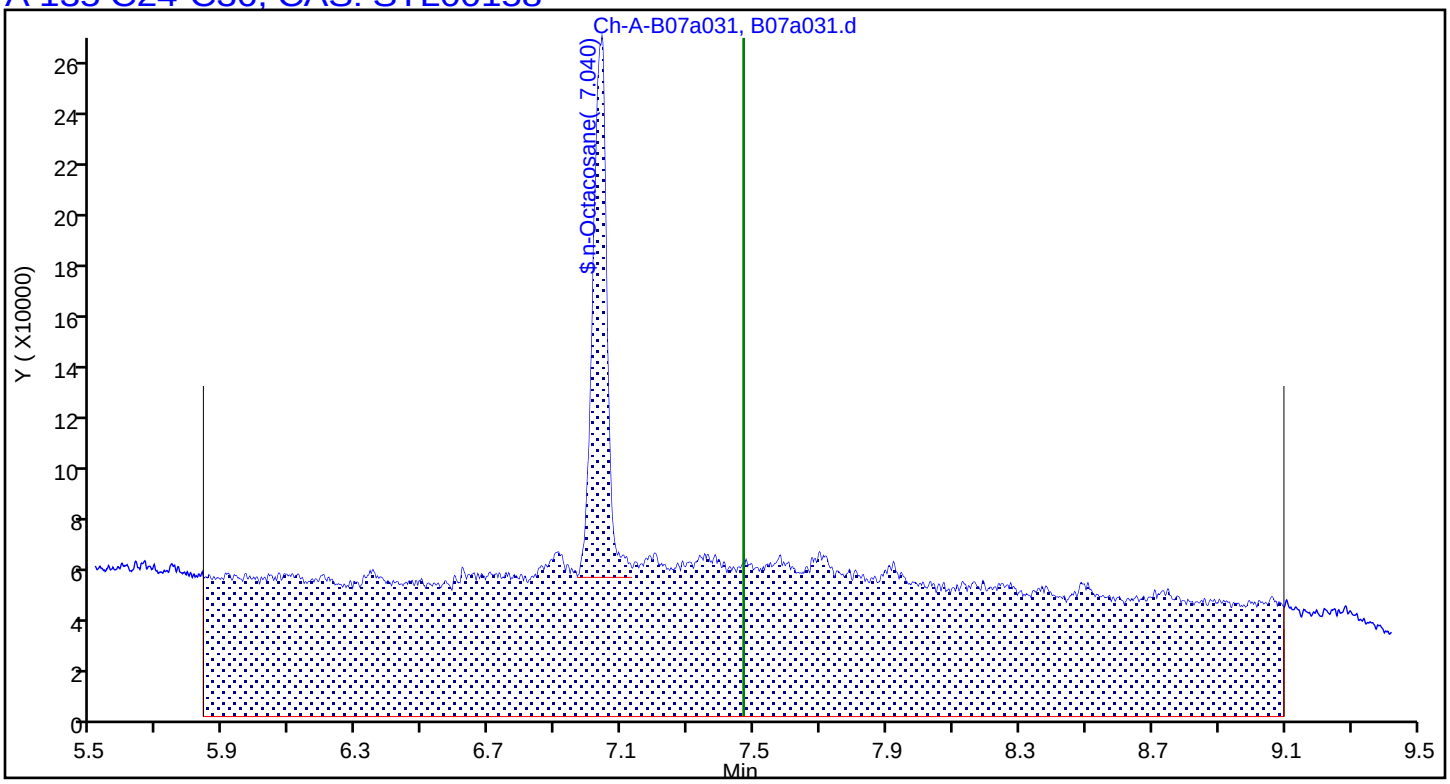


Report Date: 08-Feb-2019 07:46:16 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a031.d				
Injection Date:	07-Feb-2019 22:17:50	Instrument ID:	GC70A		
Lims ID:	720-91128-G-4-A	Lab Sample ID:	440-91128-4		
Client ID:	DG-Y15W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a025.d				
Lims ID:	720-91128-F-5-A				
Client ID:	DG-AD13W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 20:10:01	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 20:40:33	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				
First Level Reviewer: barnettl		Date:	07-Feb-2019 20:40:33		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		39276069	10843	E
$ 127 n-Octacosane	7.040	7.033	0.007	287013	78.0	
A 135 C24-C36	7.468	(5.837-9.098)		17427430	4811.4	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

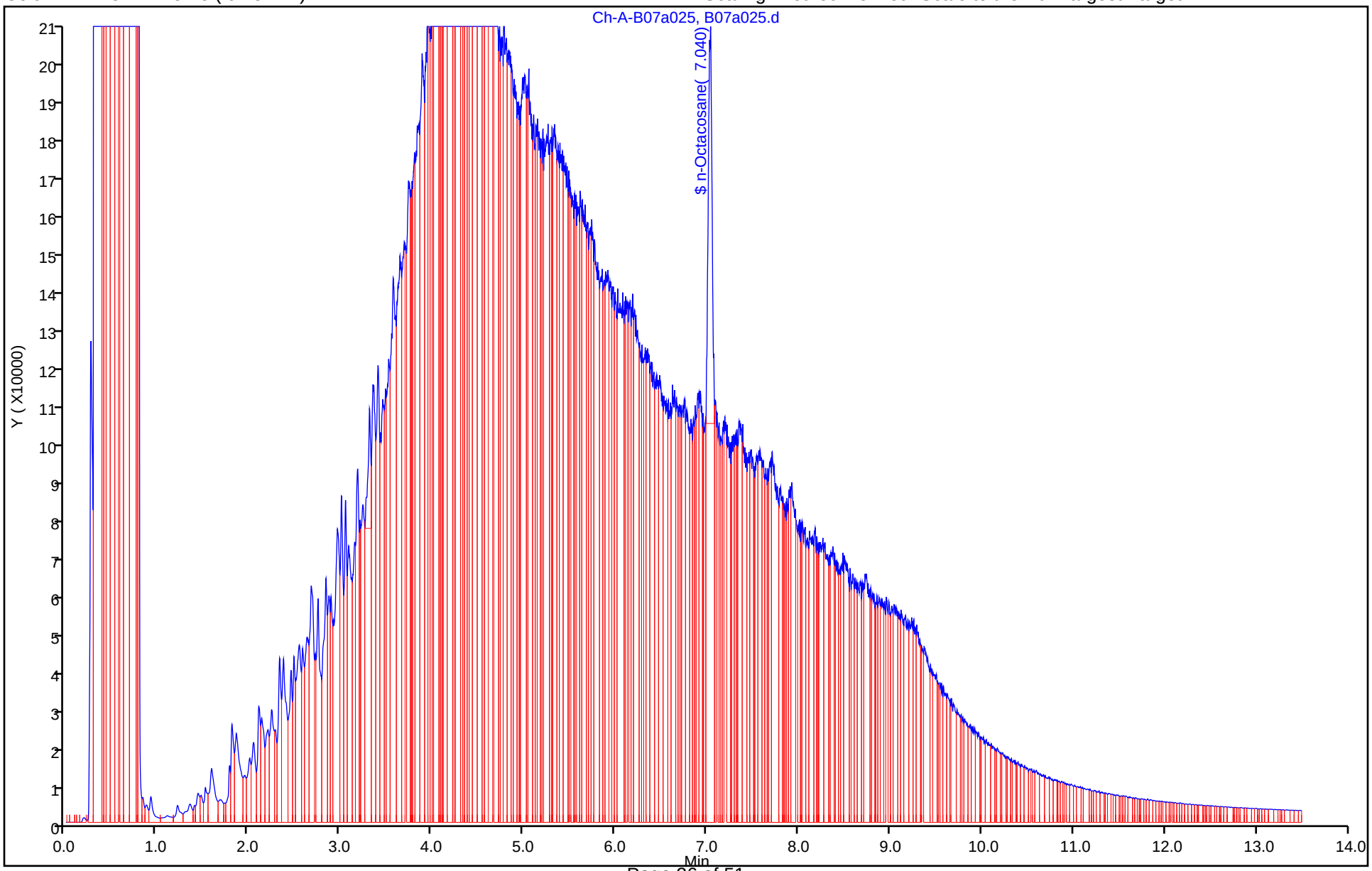
Report Date: 07-Feb-2019 20:40:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a025.d

Injection Date:	07-Feb-2019 20:10:01	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-F-5-A	Lab Sample ID:	440-91128-5	Worklist Smp#:	25
Client ID:	DG-AD13W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a025.d				
Lims ID:	720-91128-F-5-A				
Client ID:	DG-AD13W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 20:10:01	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	07-Feb-2019 20:40:33	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0326				

First Level Reviewer: barnettl Date: 07-Feb-2019 20:40:33

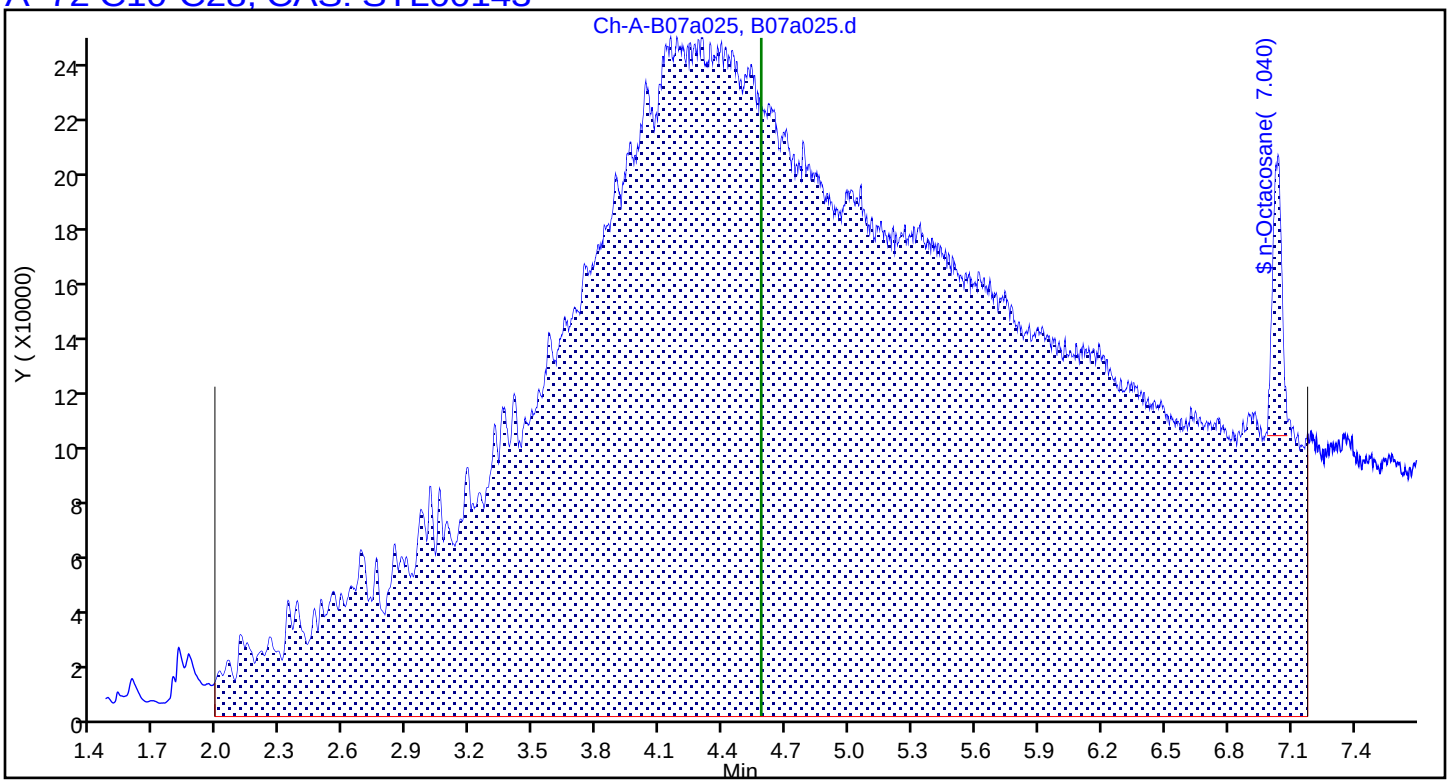
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	78.0	78.02
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 07-Feb-2019 20:40:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a025.d				
Injection Date:	07-Feb-2019 20:10:01	Instrument ID:	GC70A		
Lims ID:	720-91128-F-5-A	Lab Sample ID:	440-91128-5		
Client ID:	DG-AD13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

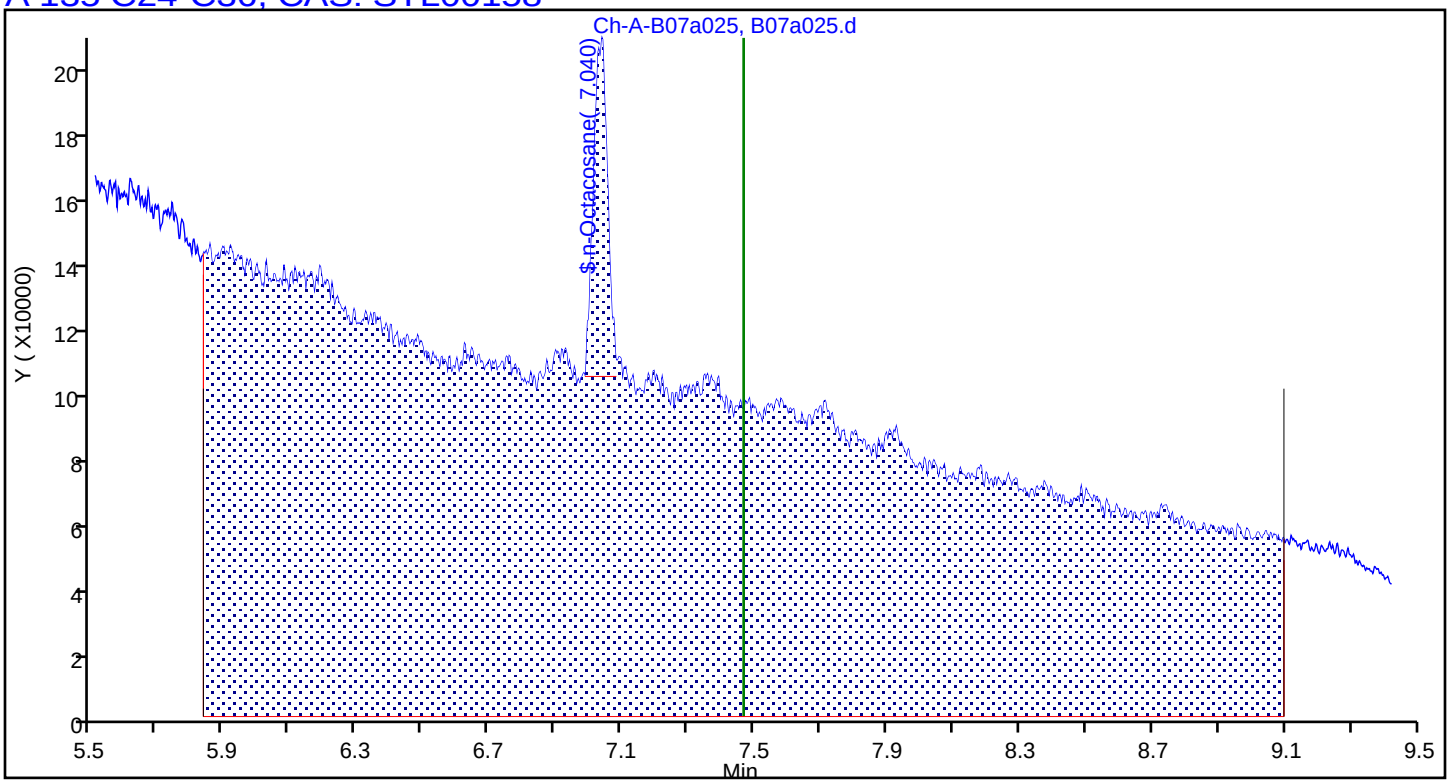


Report Date: 07-Feb-2019 20:40:34 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a025.d				
Injection Date:	07-Feb-2019 20:10:01	Instrument ID:	GC70A		
Lims ID:	720-91128-F-5-A	Lab Sample ID:	440-91128-5		
Client ID:	DG-AD13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a037.d				
Lims ID:	720-91128-F-5-A				
Client ID:	DG-AD13W				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 00:25:24	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:48:01	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:48:01		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		3704799	1022.8	
$ 127 n-Octacosane	7.012	7.033	-0.021	29803	8.10	
A 135 C24-C36	7.468	(5.837-9.098)		1638826	452.4	

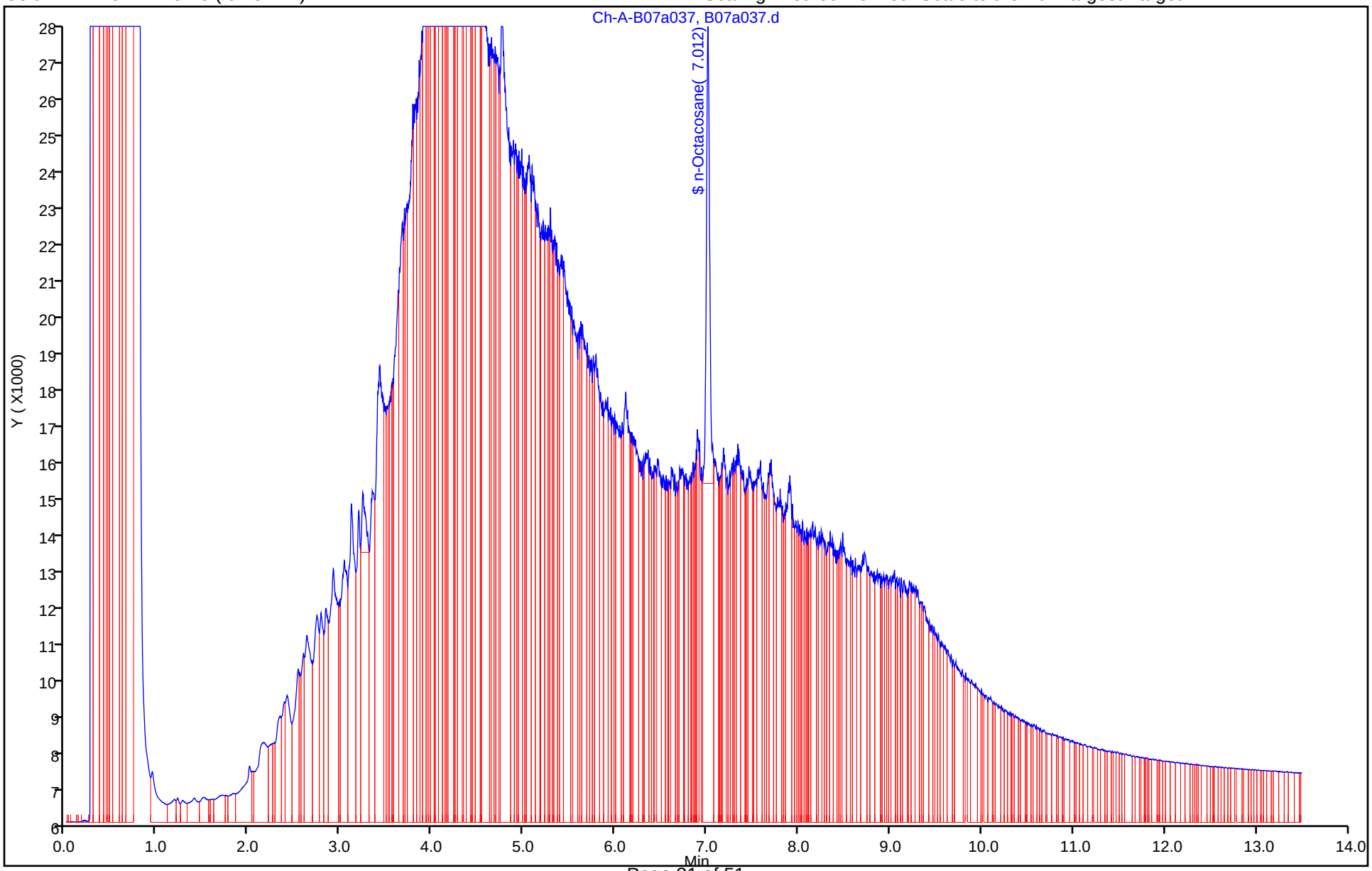
Report Date: 08-Feb-2019 07:48:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a037.d

Injection Date:	08-Feb-2019 00:25:24	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-F-5-A	Lab Sample ID:	440-91128-5	Worklist Smp#:	38
Client ID:	DG-AD13W				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a037.d				
Lims ID:	720-91128-F-5-A				
Client ID:	DG-AD13W				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 00:25:24	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:48:01	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				

First Level Reviewer: doanm Date: 08-Feb-2019 07:48:01

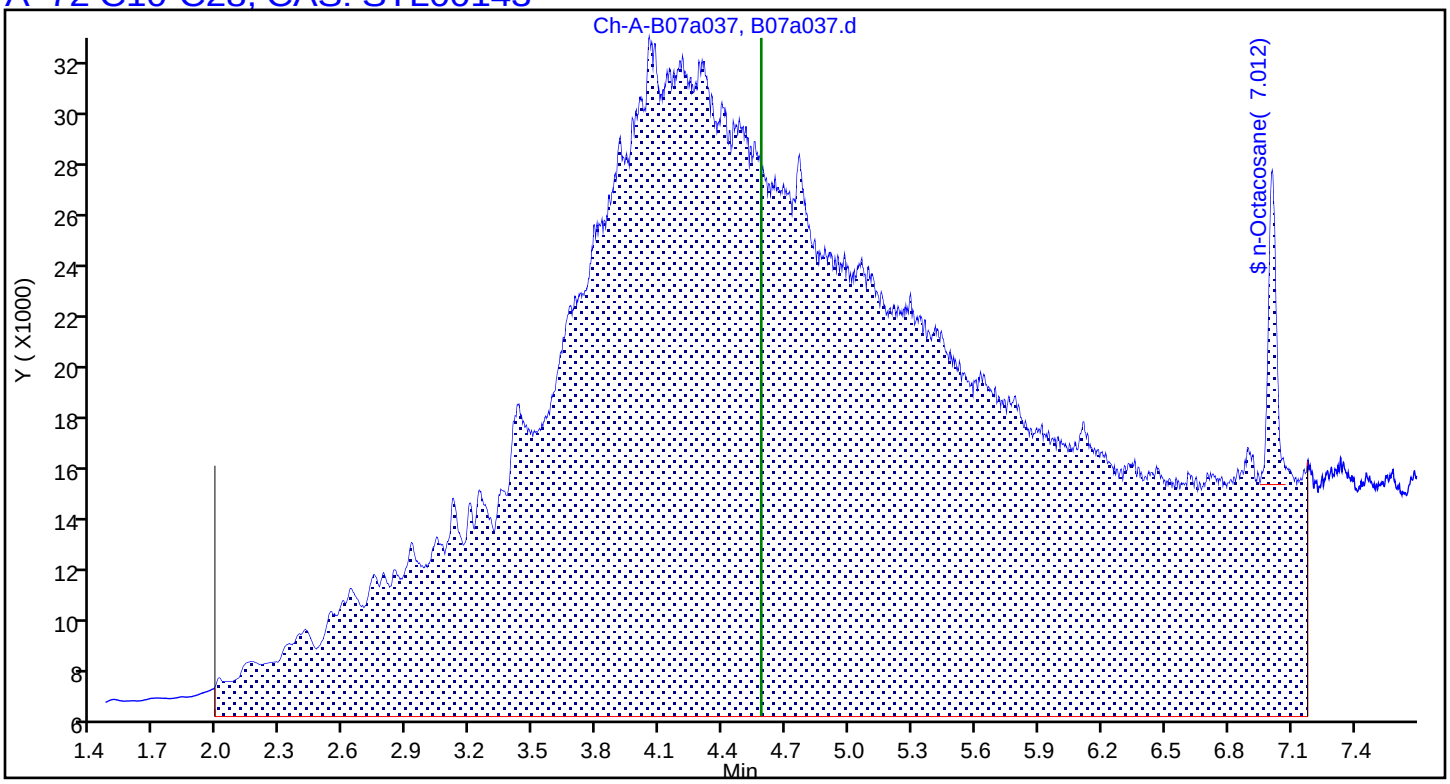
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	8.10	81.01
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 08-Feb-2019 07:48:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a037.d				
Injection Date:	08-Feb-2019 00:25:24	Instrument ID:	GC70A		
Lims ID:	720-91128-F-5-A	Lab Sample ID:	440-91128-5		
Client ID:	DG-AD13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

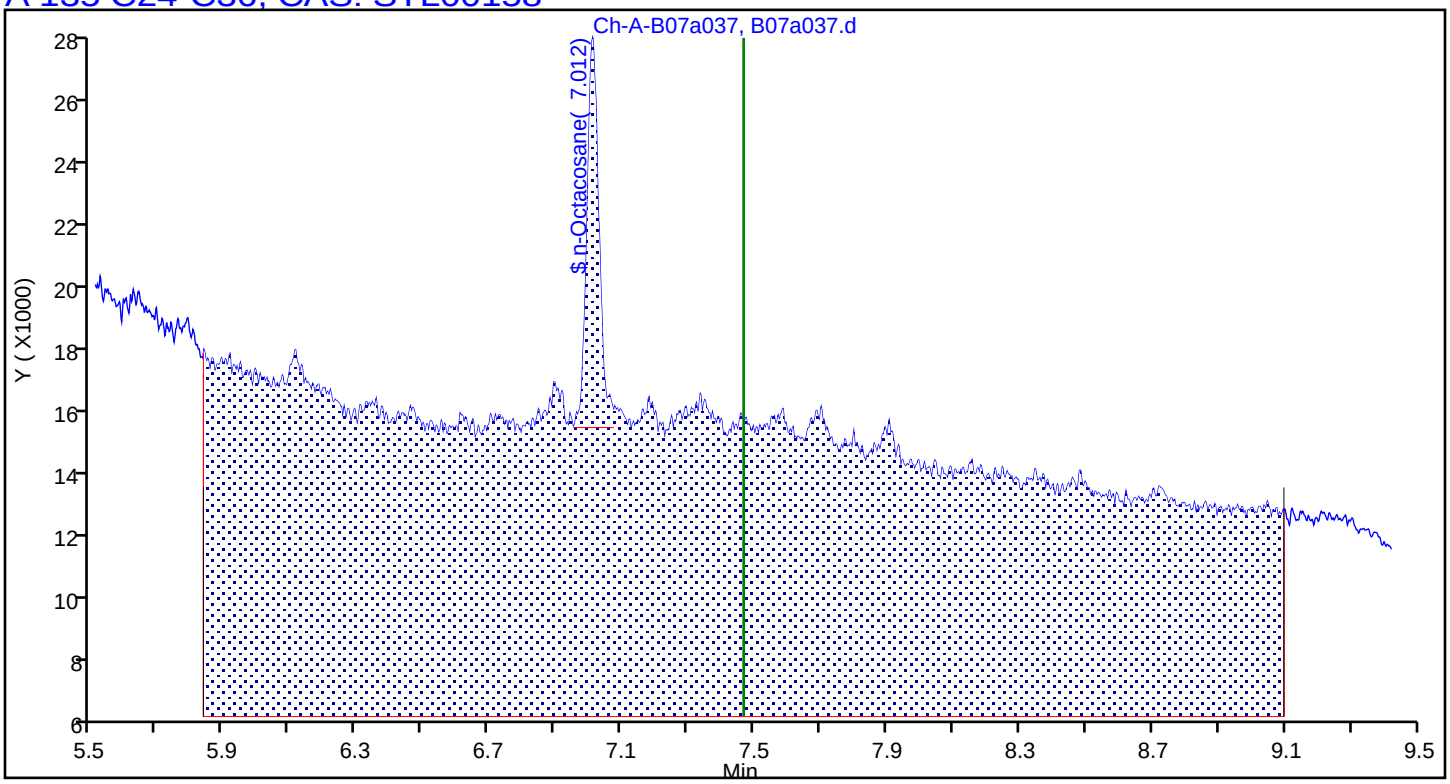


Report Date: 08-Feb-2019 07:48:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a037.d				
Injection Date:	08-Feb-2019 00:25:24	Instrument ID:	GC70A		
Lims ID:	720-91128-F-5-A	Lab Sample ID:	440-91128-5		
Client ID:	DG-AD13W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a032.d				
Lims ID:	720-91128-F-6-A				
Client ID:	DG-AV9W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 22:39:08	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:46:29	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:46:29		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		846214	233.6	
$ 127 n-Octacosane	7.023	7.033	-0.010	524843	142.7	
A 135 C24-C36	7.468	(5.837-9.098)		786617	217.2	

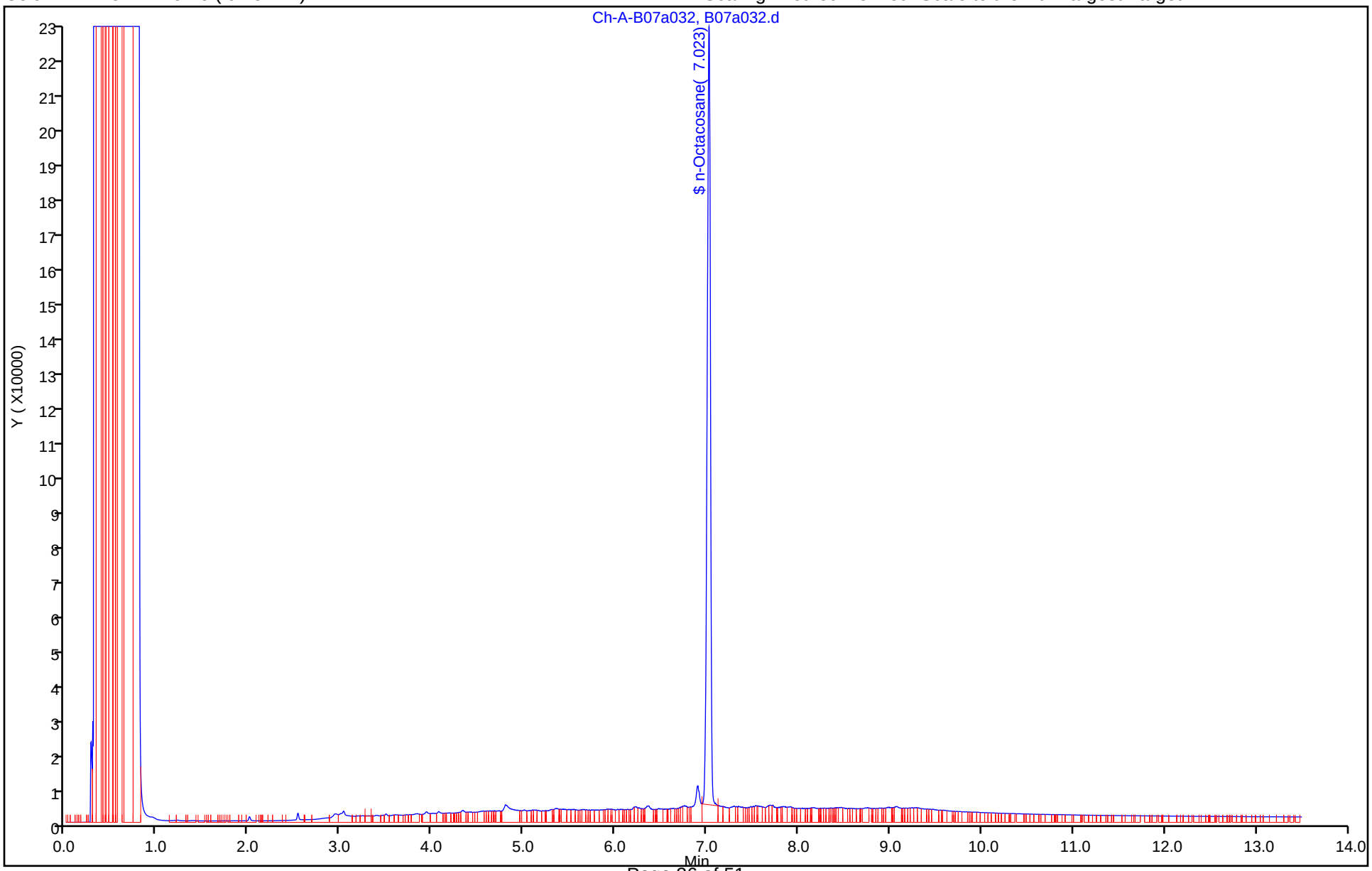
Report Date: 08-Feb-2019 07:46:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a032.d

Injection Date:	07-Feb-2019 22:39:08	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-F-6-A	Lab Sample ID:	440-91128-6	Worklist Smp#:	32
Client ID:	DG-AV9W				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a032.d				
Lims ID:	720-91128-F-6-A				
Client ID:	DG-AV9W				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 22:39:08	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:46:29	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				

First Level Reviewer: doanm Date: 08-Feb-2019 07:46:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	142.7	71.33
$ 178 n-Triacontane-d62	0.0	0	0.00

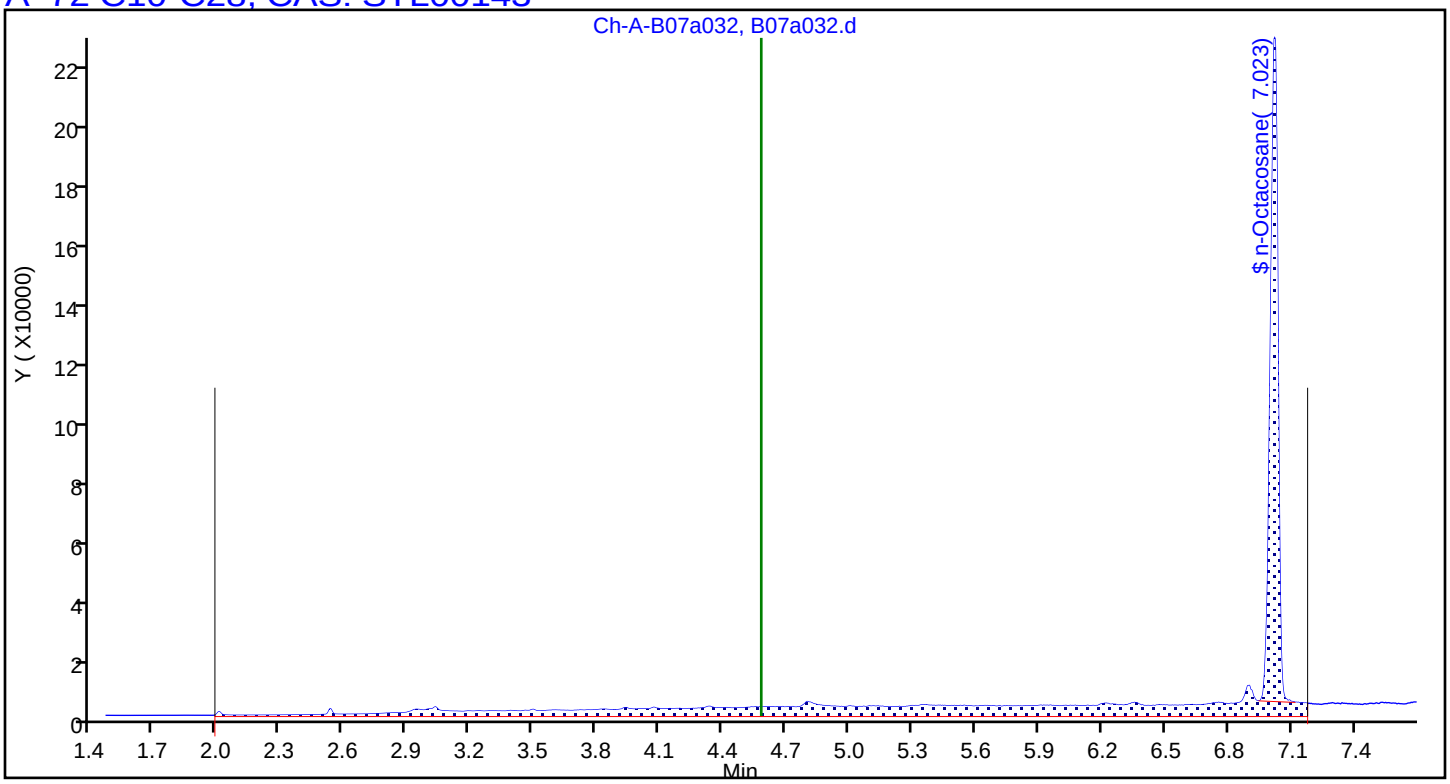
Report Date: 08-Feb-2019 07:46:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a032.d

Injection Date:	07-Feb-2019 22:39:08	Instrument ID:	GC70A		
Lims ID:	720-91128-F-6-A	Lab Sample ID:	440-91128-6		
Client ID:	DG-AV9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

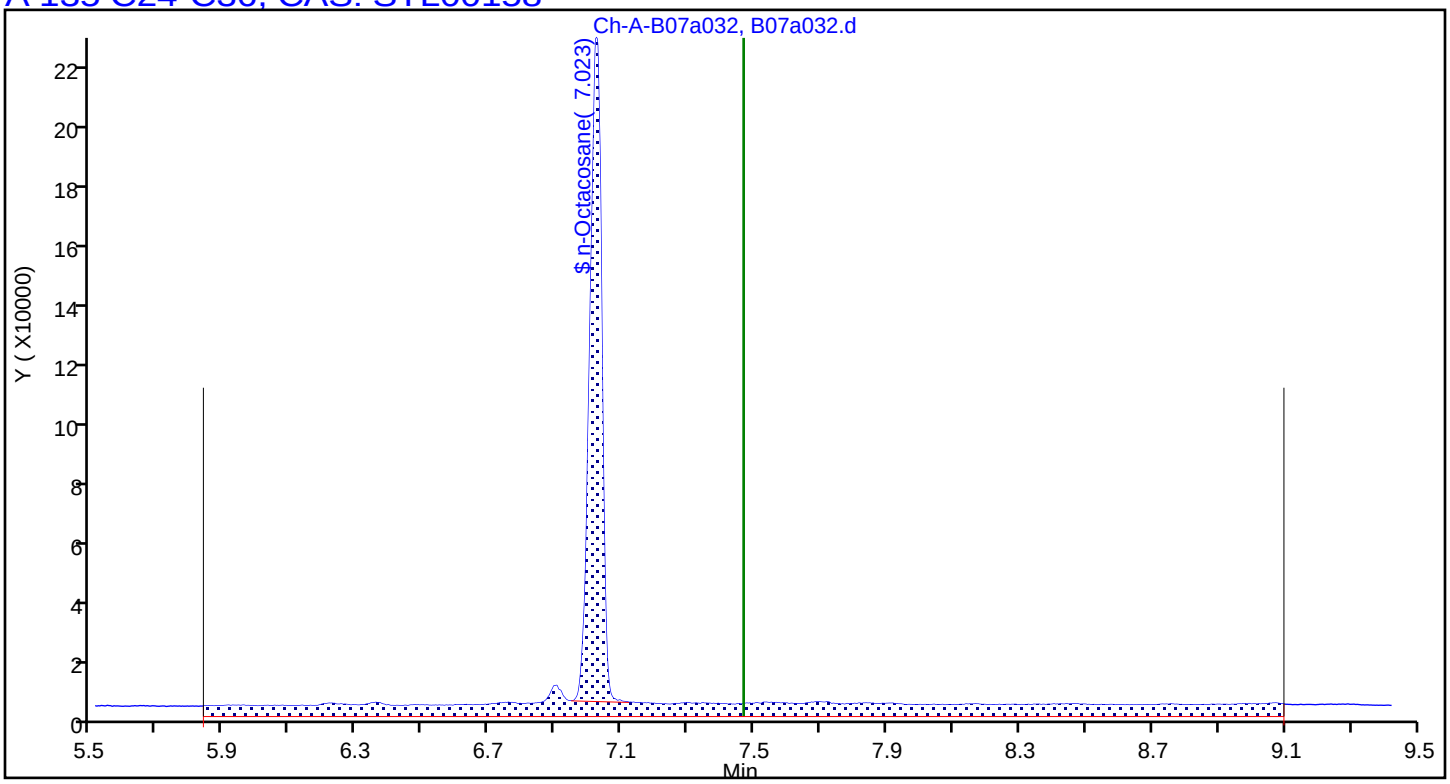


Report Date: 08-Feb-2019 07:46:30 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a032.d				
Injection Date:	07-Feb-2019 22:39:08	Instrument ID:	GC70A		
Lims ID:	720-91128-F-6-A	Lab Sample ID:	440-91128-6		
Client ID:	DG-AV9W				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a027.d				
Lims ID:	720-91128-G-9-A				
Client ID:	DUP-93				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 20:52:25	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:44:34	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:44:34		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.583	(1.985-7.180)		38017835	10496	E
$ 127 n-Octacosane	7.030	7.033	-0.003	294592	80.1	
A 135 C24-C36	7.468	(5.837-9.098)		17194539	4747.1	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

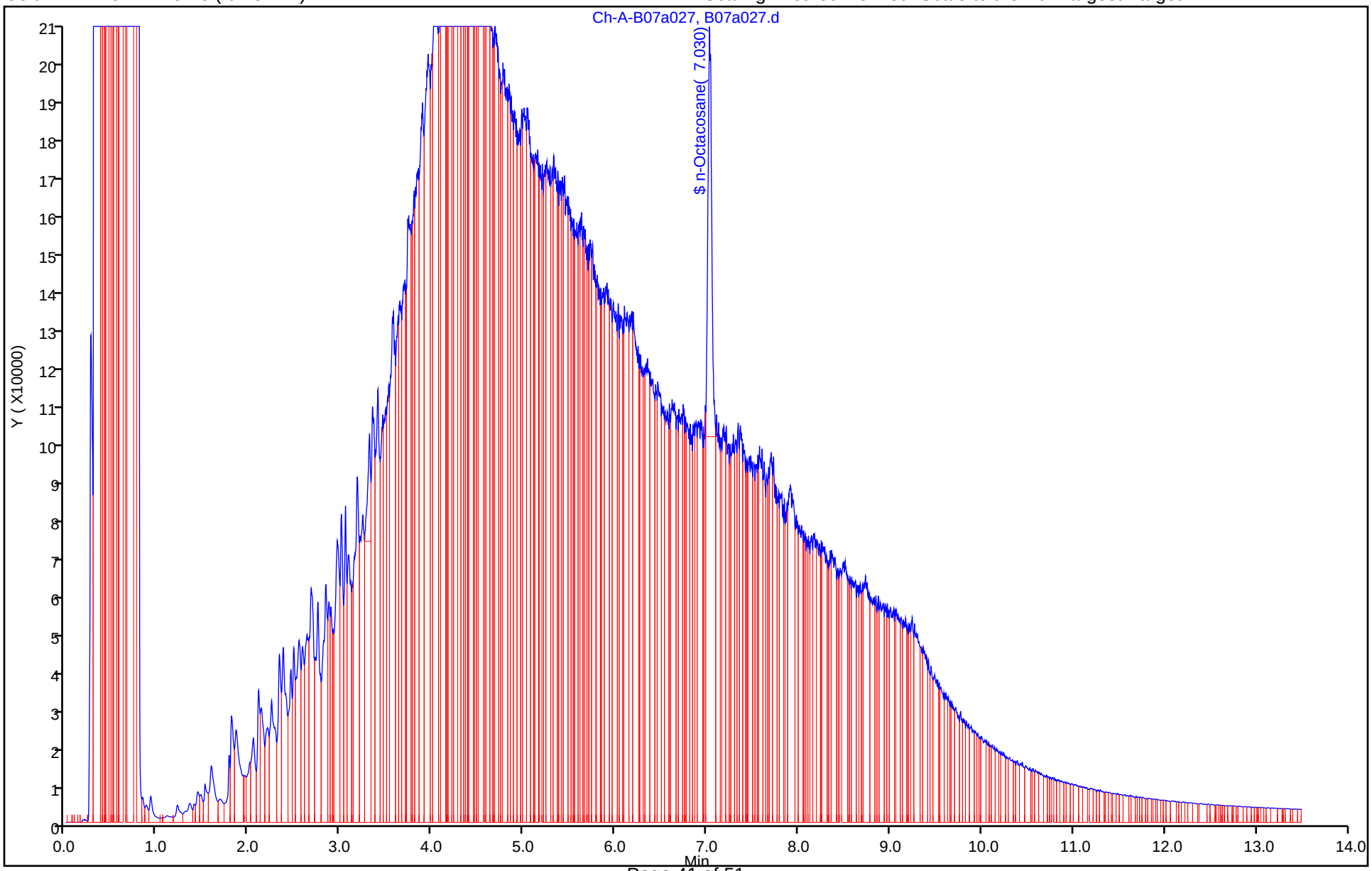
Report Date: 08-Feb-2019 07:44:35 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a027.d

Injection Date:	07-Feb-2019 20:52:25	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-G-9-A	Lab Sample ID:	440-91128-9	Worklist Smp#:	27
Client ID:	DUP-93				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a027.d				
Lims ID:	720-91128-G-9-A				
Client ID:	DUP-93				
Sample Type:	Client				
Inject. Date:	07-Feb-2019 20:52:25	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 07:44:34	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0301				
First Level Reviewer: doanm		Date:	08-Feb-2019 07:44:34		

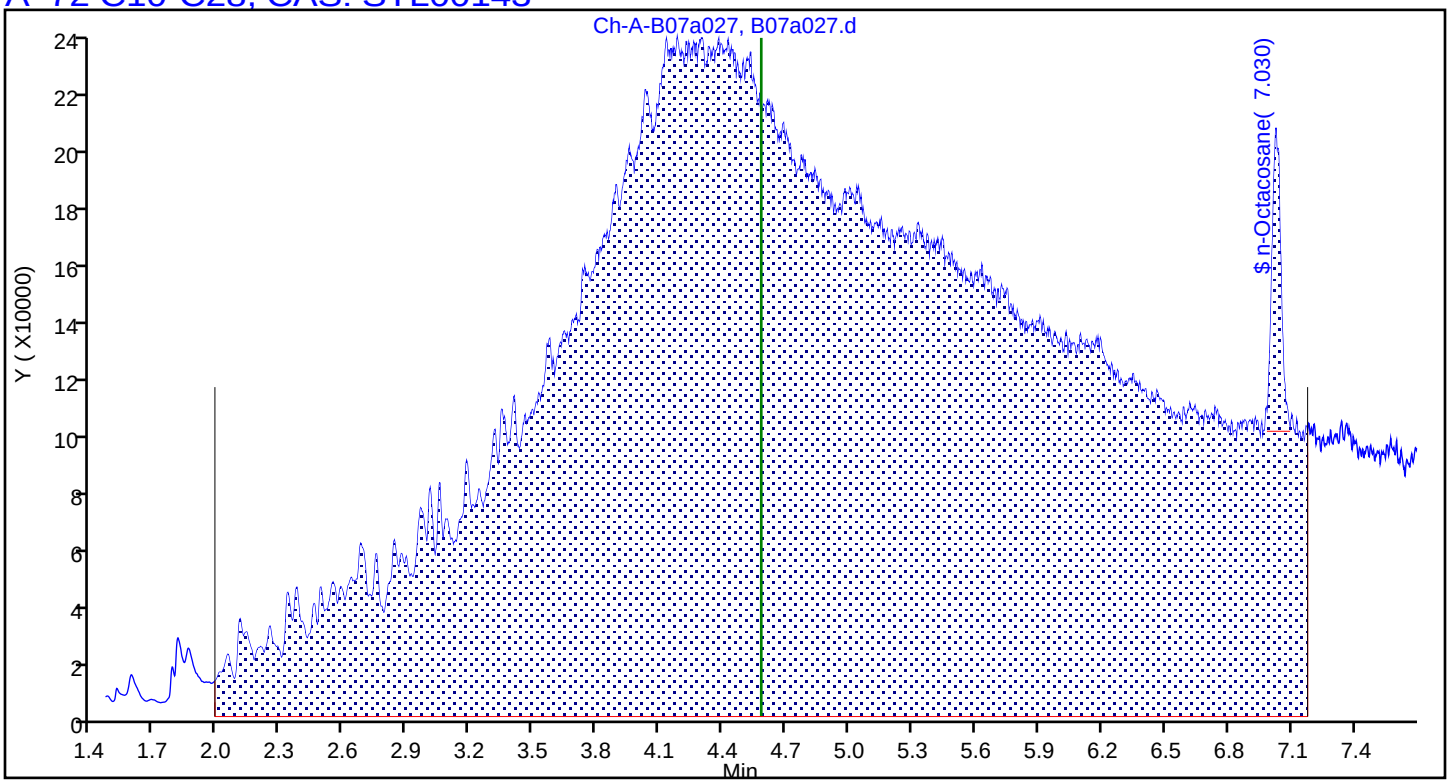
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	80.1	80.08
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 08-Feb-2019 07:44:35 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a027.d				
Injection Date:	07-Feb-2019 20:52:25	Instrument ID:	GC70A		
Lims ID:	720-91128-G-9-A	Lab Sample ID:	440-91128-9		
Client ID:	DUP-93				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_72 C10-C28, CAS: STL00143

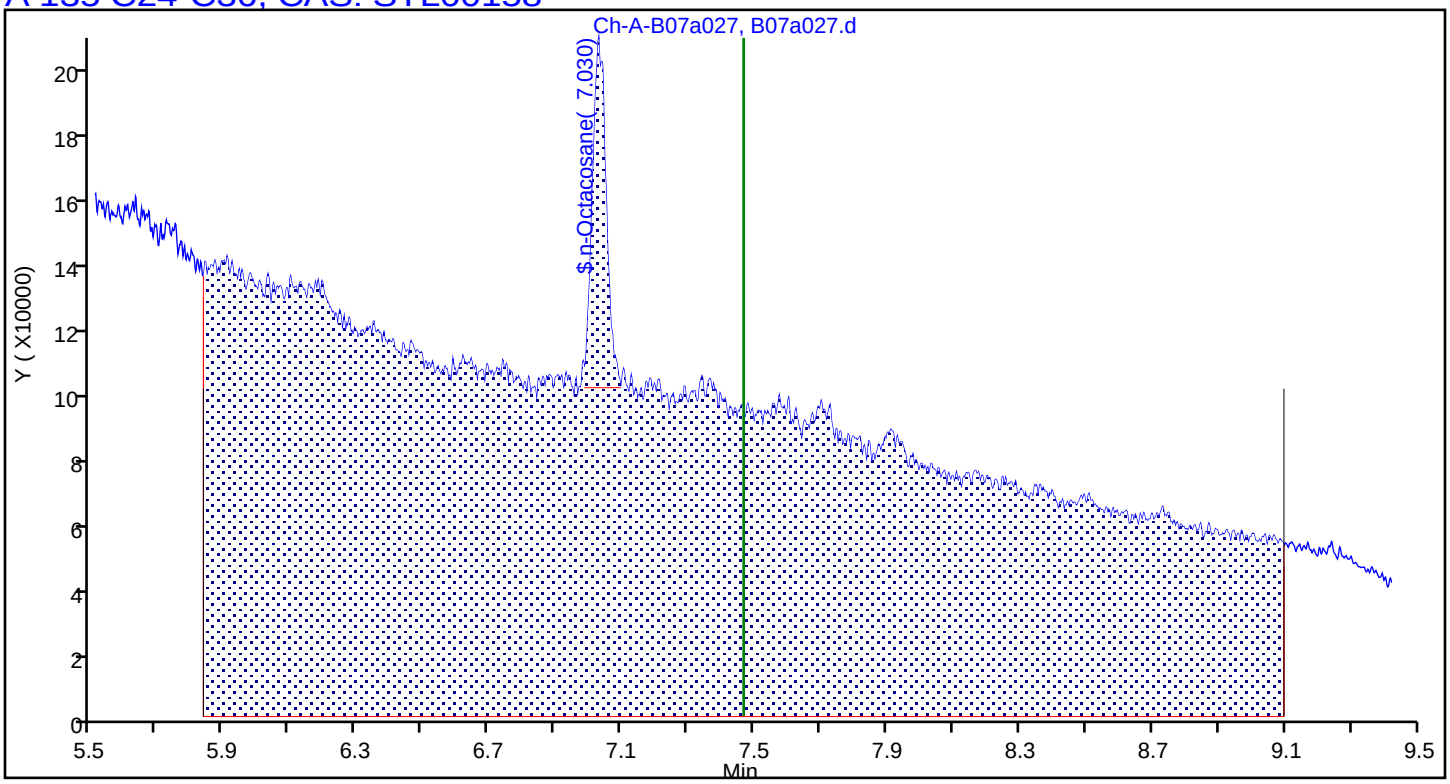


Report Date: 08-Feb-2019 07:44:35 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190207-115223.b\B07a027.d				
Injection Date:	07-Feb-2019 20:52:25	Instrument ID:	GC70A		
Lims ID:	720-91128-G-9-A	Lab Sample ID:	440-91128-9		
Client ID:	DUP-93				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190208-115254.b\B08a013.d				
Lims ID:	720-91128-G-9-A				
Client ID:	DUP-93				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 12:29:32	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190208-115254.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 15:01:02	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0323				
First Level Reviewer: barnettl		Date:	08-Feb-2019 15:01:02		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 72 C10-C28	4.573	(1.957-7.190)		3223636	890.0	
$ 127 n-Octacosane	7.015	7.025	-0.010	27508	7.48	
A 135 C24-C36	7.468	(5.842-9.095)		1541953	425.7	

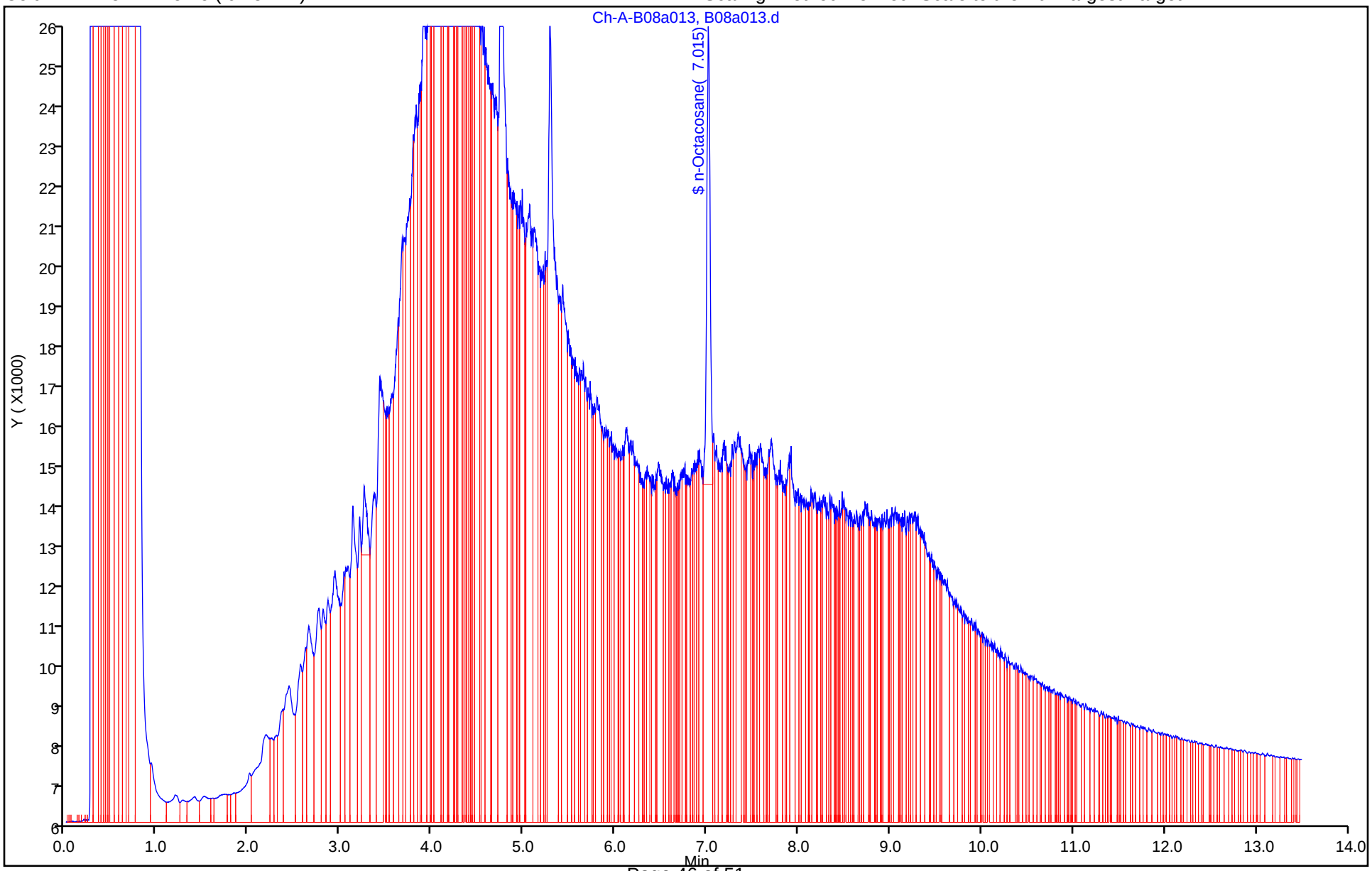
Report Date: 08-Feb-2019 15:01:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC70A\20190208-115254.b\B08a013.d

Injection Date:	08-Feb-2019 12:29:32	Instrument ID:	GC70A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91128-G-9-A	Lab Sample ID:	440-91128-9	Worklist Smp#:	13
Client ID:	DUP-93				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC70A\20190208-115254.b\B08a013.d				
Lims ID:	720-91128-G-9-A				
Client ID:	DUP-93				
Sample Type:	Client				
Inject. Date:	08-Feb-2019 12:29:32	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC70A		
Method:	\\chromna\Irvine\ChromData\GC70A\20190208-115254.b\8015DRO_70A.m				
Limit Group:	GC-8015DRO				
Last Update:	08-Feb-2019 15:01:02	Calib Date:	05-Feb-2019 19:05:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC70A\20190205-115125.b\B05a014.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0323				

First Level Reviewer: barnettl Date: 08-Feb-2019 15:01:02

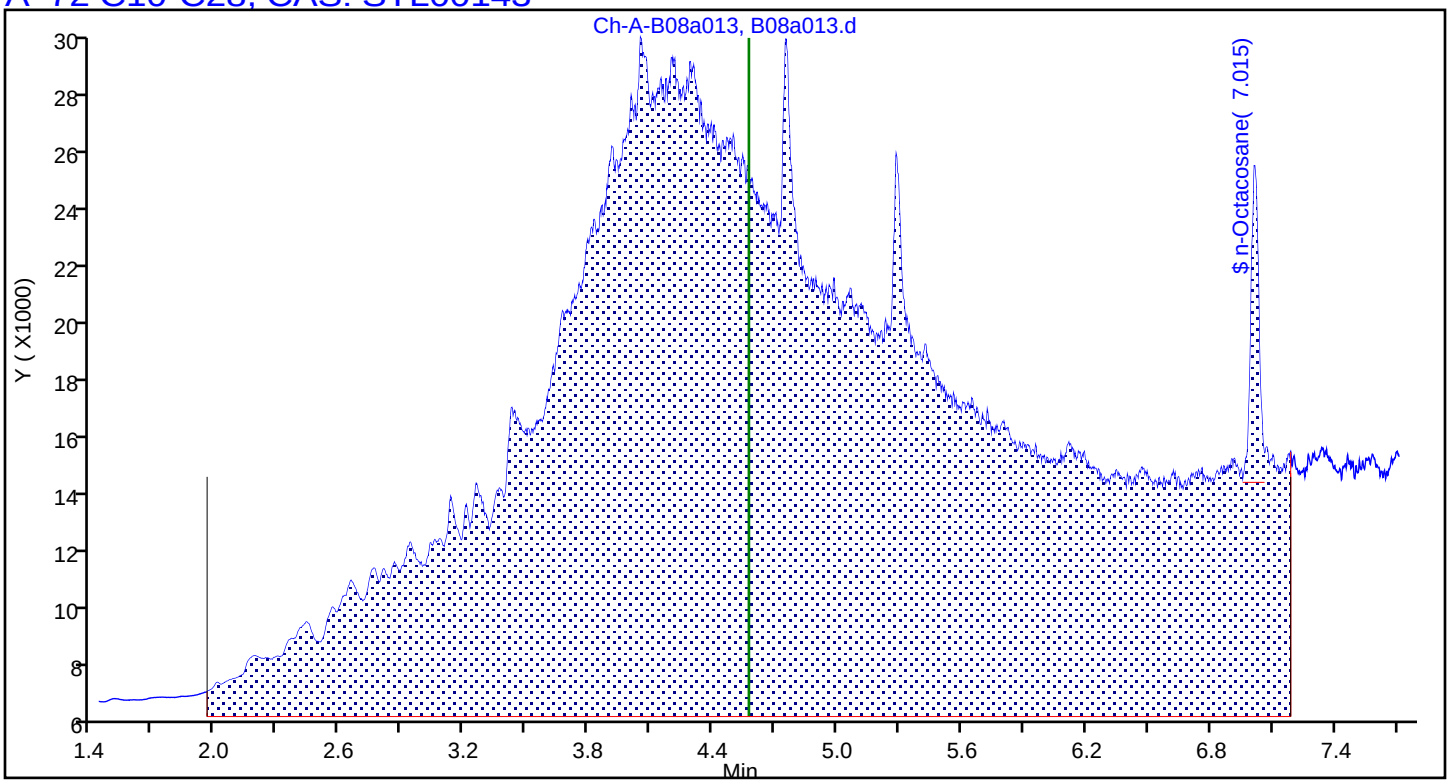
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	7.48	74.77
$ 178 n-Triacontane-d62	0.0	0	0.00

Report Date: 08-Feb-2019 15:01:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190208-115254.b\B08a013.d				
Injection Date:	08-Feb-2019 12:29:32	Instrument ID:	GC70A		
Lims ID:	720-91128-G-9-A	Lab Sample ID:	440-91128-9		
Client ID:	DUP-93				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 72 C10-C28, CAS: STL00143

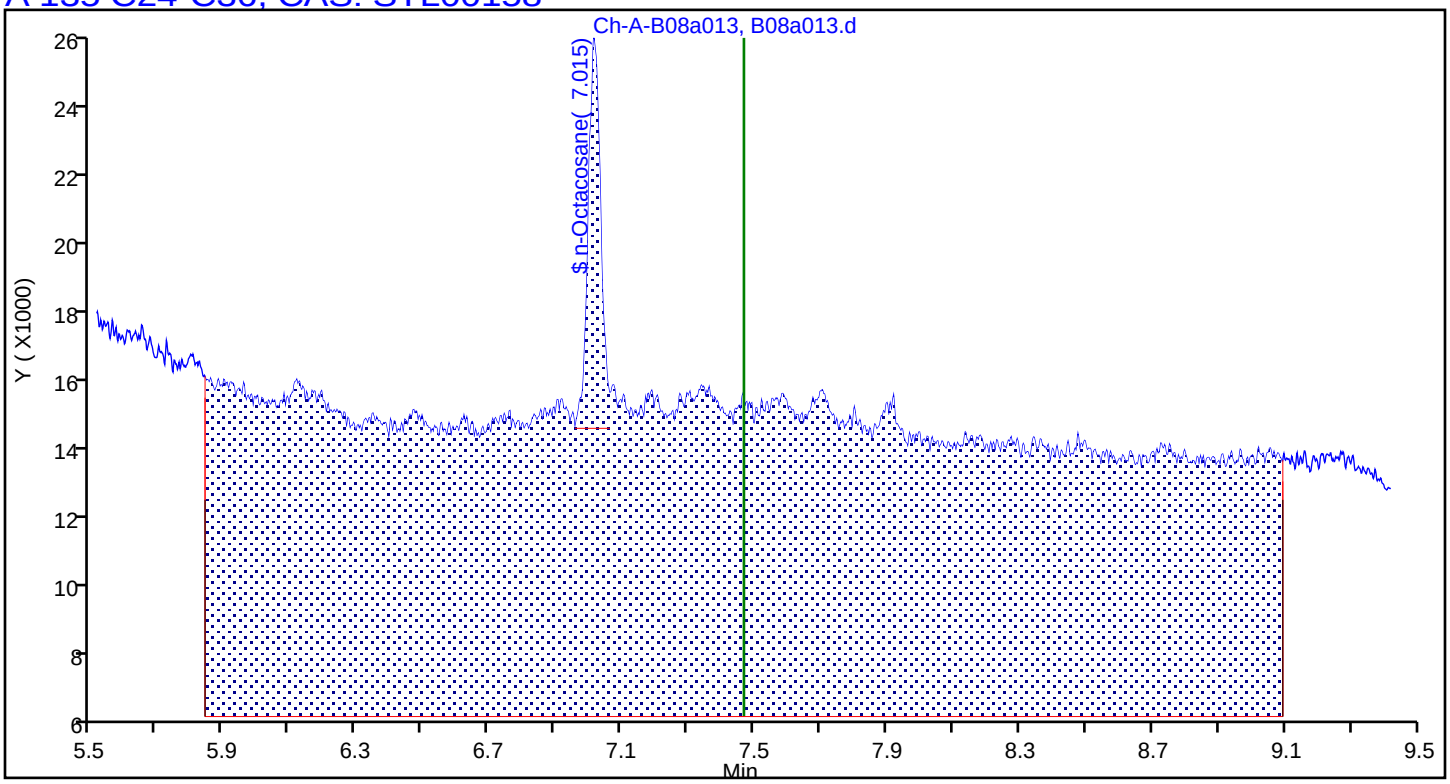


Report Date: 08-Feb-2019 15:01:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC70A\20190208-115254.b\B08a013.d				
Injection Date:	08-Feb-2019 12:29:32	Instrument ID:	GC70A		
Lims ID:	720-91128-G-9-A	Lab Sample ID:	440-91128-9		
Client ID:	DUP-93				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8015DRO_70A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 135 C24-C36, CAS: STL00158



2 coolers

185276

720-91128

Chain of Custody Record

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925 600.3002

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 2/1/2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below			
bchen@geosyntec.com, mkahrilas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91128 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
1. DG-AV3W	2/1/2019	0830	G	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
2. DG-AC15W	2/1/2019	0930	G	GW	9	Y		X	X	X	X	X	
3 DG-AN13W	2/1/2019	1000	G	GW	9	Y		X	X	X	X	X	
4 DG-Y15W	2/1/2019	1030	G	GW	9	Y		X	X	X	X	X	
5 DG-AD15W	2/1/2019	1120	G	GW	9	Y		X	X	X	X	X	
6 DG-AV9W	2/1/2019	1220	G	GW	9	Y		X	X	X	X	X	
7. FB-02.01.19	2/1/2019		G	GW	2	N		X					
8. TB-02.01.19	2/1/2019		G	GW	2	N		X					
9. Dup-93	2/1/2019		G	GW	9	Y		X	X	X	X	X	

NS NS NS NS

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Nahan Schachtman	Company: Geosyntec	Date/Time: 2/1/2019 1405	Received by:	Company: TA-PLS	Date/Time: 2/1/19 1405
Relinquished by:	Company: TA-PLS	Date/Time: 2/1/19 1642	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-PLS	Date/Time: 2/1/191642

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1/1.4 C

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 478045743539	COC No: 720-41037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91128-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/13/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
DG-AY3W (720-91128-1)	2/1/19	08:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AC15W (720-91128-2)	2/1/19	09:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AN13W (720-91128-3)	2/1/19	10:00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-Y15W (720-91128-4)	2/1/19	10:30 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AD13W (720-91128-5)	2/1/19	11.20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
DG-AV9W (720-91128-6)	2/1/19	12:20 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
FB-02.01.19 (720-91128-7)	2/1/19	Pacific		Water			X	X			2	check for 2 phases
TB-02.01.19 (720-91128-8)	2/1/19	Pacific		Water			X	X			2	check for 2 phases
DUP-93 (720-91128-9)	2/1/19	Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2-4-19 1400	Company: TAS	Received by: / Date/Time: / Company:
Relinquished by:	Date/Time:	Company:	Received by: / Date/Time: / Company:
Relinquished by:	Date/Time:	Company:	Received by: / Date/Time: 2/5/19 1000 / Company: TA IRV

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.4/3.4 IR88 3.8/3.8 3.4/3.4

Ver: 09/20/2016

ANALYTICAL REPORT

Job Number: 720-91134-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek



Approved for release.
Urvashi Patel
Manager of Project Management
2/21/2019 10:25 PM

Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/21/2019

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Job Narrative
720-91134-1

Comments
No additional comments.

Receipt
The samples were received on 2/1/2019 4:42 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-528098 recovered above the upper control limit for 1,1-Dichloroethene and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-259737 and analytical batch 720-259976 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: DG-AV9S-0.5-1 (720-91134-4). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The method blank for preparation batch 720-259745 and analytical batch 720-259976 contained Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Indeno[1,2,3-cd]pyrene, Pyrene and Dibenz(a,h)anthracene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The method blank for preparation batch 720-259737 and analytical batch 720-259858 contained Benzo[a]pyrene, Benzo[b]fluoranthene and Benzo[k]fluoranthene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C SIM: The following samples were diluted due to the nature of the sample matrix: (720-91134-E-3-D MS) and (720-91134-E-3-E MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DG-AD13S-7.5-8 (720-91134-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AD13S-7.5-8 (720-91134-3) and DG-AV9S-3.5-4 (720-91134-5). . Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Surrogate recovery for the following sample was outside control limits: DG-AD13S-3.5-4 (720-91134-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM: The following sample required a dilution due to the nature of the sample matrix: DUP-93 (720-91134-12). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C SIM: The following samples were diluted due to the abundance of non-target analytes: DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-3.5-4 (720-91134-2), DG-AV9S-8.5-9 (720-91134-6) and DUP-93 (720-91134-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following samples required a dilution due to the nature of the sample matrix: DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-3.5-4 (720-91134-2), DG-AD13S-7.5-8 (720-91134-3), DG-AV9S-0.5-1 (720-91134-4), DUP-93 (720-91134-12), (720-91134-E-1-E MS) and (720-91134-E-1-F MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259743 and analytical batch 720-259940 were outside control limits. Sample matrix interference and non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8081A: The following sample was diluted due to color: DG-AD13S-3.5-4 (720-91134-2), DG-AD13S-0.5-1 (720-91134-1),

DG-AD13S-7.5-8 (720-91134-3) and DUP-93 (720-91134-12). Elevated reporting limits (RL) are provided.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for alpha-Chlordane for the following sample: DG-AD13S-0.5-1 (720-91134-1) and DG-AV9S-3.5-4 (720-91134-5). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for Dieldrin for the following sample: DG-AV9S-0.5-1 (720-91134-4). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method 8082: The continuing calibration verification (CCV) associated with batch 440-527893 recovered above the upper control limit for Aroclor 1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-3.5-4 (720-91134-2), DG-AV9S-8.5-9 (720-91134-6), (CCVIS 440-527893/9) and (720-91191-B-1-C).

Method 8082: The following sample required a copper clean-up to reduce matrix interferences caused by sulfur: DG-AD13S-7.5-8 (720-91134-3), DG-AV9S-0.5-1 (720-91134-4), DG-AV9S-3.5-4 (720-91134-5) and DUP-93 (720-91134-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The method blank for preparation batch 720-259688 and analytical batch 720-260327 contained Silver, Lead & Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-259688 and analytical batch 720-260327 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The post digestion spike % recovery for Silver-133%, Barium-152%, Copper- 135%, Lead-155%, Vanadium-127%, Zinc-151% associated with batch 720-260327 was outside of control limits.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AD13S-0.5-1 (720-91134-1), DG-AD13S-3.5-4 (720-91134-2), DG-AD13S-7.5-8 (720-91134-3), DG-AV9S-0.5-1 (720-91134-4), DG-AV9S-3.5-4 (720-91134-5), DG-AV9S-8.5-9 (720-91134-6) and DUP-93 (720-91134-12). Elevated reporting limits (RLs) are provided.

Method 6010B: The following samples were diluted due to the abundance of non-target analytes: DG-AV9S-0.5-1 (720-91134-4) and DG-AV9S-8.5-9 (720-91134-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3546: 8015_DRO: Due to the matrix, the following sample could not be concentrated to the final method required volume.DG-AD13S-3.5-4 (720-91134-2). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM: Due to the matrix, the following sample could not be concentrated to the final method required volume. DG-AD13S-3.5-4 (720-91134-2). The reporting limits (RLs) are elevated proportionately.

Method 3546: 8270_SIM: Due to the matrix, the following sample could not be concentrated to the final method required volume. DUP-93 (720-91134-12). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - CARB 435 by Eurofins CEI: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_008.d
Lims ID: 720-91134-E-1-D
Client ID: DG-AD13S-0.5-1
Sample Type: Client
Inject. Date: 07-Feb-2019 11:24:31 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 136 Name: 720-0056484-008
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\DRO5B.m
Limit Group: DRO
Last Update: 07-Feb-2019 11:54:38 Calib Date: 07-Feb-2019 08:44:33
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0321

First Level Reviewer: luj Date: 07-Feb-2019 11:54:38

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.695	2.637	0.058	300	NC	
	23 n-Decane	3.896	3.855	0.041	1655	NC	
A	21 Stoddard Solvent	4.593	(2.637-6.549)		267733	23.6	
A	1 C9-C13	4.593	(2.637-6.549)		267733	21.1	
A	57 C10-C12	4.803	(3.855-5.750)		83393	8.49	
	24 Dodecane	5.773	5.750	0.023	6078	NC	
A	3 C9 - C17	5.945	(2.637-9.254)		1526014	111.1	
A	47 C9 - C18	6.233	(2.637-9.829)		1981316	176.5	
A	60 C10-C16	6.239	(3.855-8.623)		1195258	98.5	
A	25 C9-C19	6.509	(2.637-10.381)		2448851	177.6	
A	15 Kerosene	6.509	(2.637-10.381)		2448851	217.6	
	26 C13	6.503	6.549	-0.046	44859	NC	
$	27 n-Decanoic Acid (Surr)		7.180			ND	U
A	59 C12-C16	7.187	(5.750-8.623)		1111865	113.2	
A	62 C10-C20	7.384	(3.855-10.914)		2715633	276.6	
A	28 C9-C24	7.734	(2.637-12.831)		4355468	443.6	
A	29 C9-C25	7.951	(2.637-13.265)		4653502	474.0	
A	54 C10-C23	8.118	(3.855-12.380)		3842933	391.4	
A	4 C10-C24	8.343	(3.855-12.831)		4352768	443.3	
A	16 C10-C25	8.560	(3.855-13.265)		4650802	473.7	
	45 Hexadecane	8.646	8.623	0.023	102791	NC	
A	14 C10-C26	8.769	(3.855-13.683)		5177214	527.3	
A	67 C12-C22	8.831	(5.750-11.912)		3346402	340.8	
A	12 Unknown Hydrocarbons	9.165	(3.855-14.476)		5823467	NC	
A	32 C10-C28	9.165	(3.855-14.476)		5823467	593.1	
A	5 Diesel	9.165	(3.855-14.476)		5823467	593.1	
A	30 C13-C22	9.230	(6.549-11.912)		3209621	326.9	
	44 Heptadecane	9.271	9.254	0.017	216235	NC	
A	31 C12-C24	9.291	(5.750-12.831)		4269375	434.8	
	49 n-Octadecane	9.874	9.829	0.045	129024	NC	
A	11 Bunker Range Organics (C9-	9.912	(2.637-17.187)		10979813	NC	
A	9 Crude Oil Range Organics (	9.912	(2.637-17.187)		9743364	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 52 Mineral oil	9.912	(2.637-17.187)		9743364	873.0	
33 C19	10.344	10.381	-0.037	228451	NC	
A 64 C13-C28	10.513	(6.549-14.476)		5603293	570.7	
A 17 C10-C36	10.521	(3.855-17.187)		10977113	1118.0	
A 68 Crude Oil Range Organics (	10.663	(2.637-18.690)		10902973	NC	
A 13 C9-C40	10.663	(2.637-18.690)		10902973	1384.6	
A 58 C16-C24	10.727	(8.623-12.831)		3157510	321.6	
61 icosane	10.962	10.914	0.048	84013	NC	
A 6 C10-C40	11.272	(3.855-18.690)		10897327	1384.1	
$ 34 p-Terphenyl		11.886			ND	U
35 n-Docosane		11.912			ND	
A 18 C12-C40	12.220	(5.750-18.690)		10788919	1370.3	
36 Tricosane	12.385	12.380	0.005	162479	NC	
A 66 C13-C40	12.620	(6.549-18.690)		9582226	1216.3	
37 n-Tetracosane	12.823	12.831	-0.008	133551	NC	
A 2 C16-C36 ORO	12.905	(8.623-17.187)		5382998	754.5	
38 C25	13.272	13.265	0.007	146814	NC	
A 19 C16-C40	13.656	(8.623-18.690)		9563642	1212.2	
46 n-Hexacosane	13.663	13.683	-0.020	152404	NC	
A 20 C19-C36	13.784	(10.381-17.187)		5525116	708.6	
A 55 C23-C32	14.147	(12.380-15.913)		2946063	717.2	
39 n-Octacosane		14.476			ND	
65 C29	14.853	14.853	0.000	151842	NC	
A 7 Motor Oil	15.009	(12.831-17.187)		3572610	625.9	
A 40 C24-C36	15.009	(12.831-17.187)		4692258	822.0	M
A 50 C25-C36	15.226	(13.265-17.187)		3280196	609.5	
A 10 C22-C40	15.301	(11.912-18.690)		4753723	600.1	
A 41 C23-C40	15.535	(12.380-18.690)		4493325	581.2	
A 8 C24-C40	15.761	(12.831-18.690)		4219657	565.7	
56 Dotriacontane		15.913			ND	
A 51 C28-C40	16.583	(14.476-18.690)		2922872	571.7	
A 63 C29-C40	16.771	(14.853-18.690)		2546491	556.7	
42 n-Hexatriacontane		17.187			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

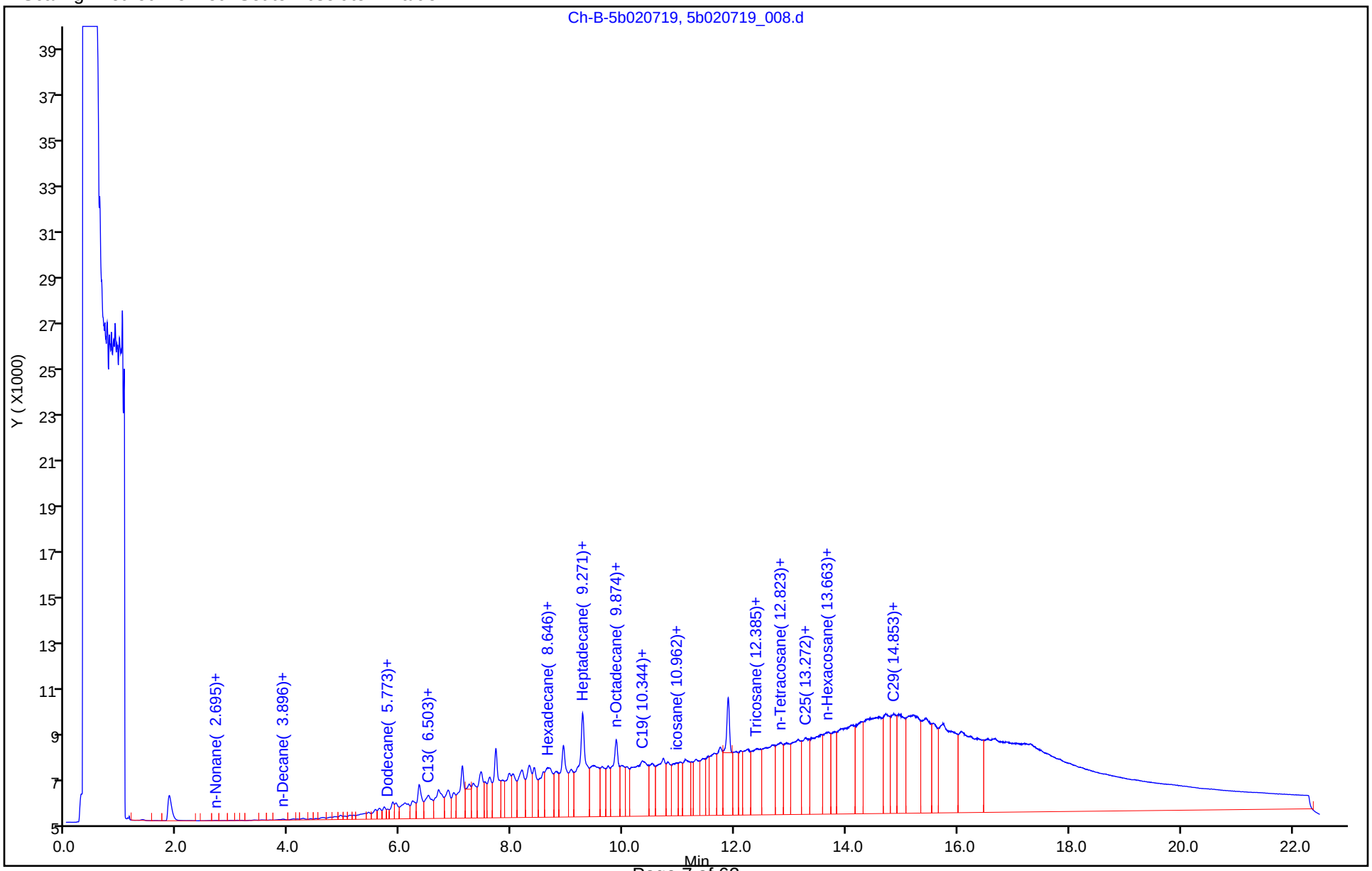
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TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_008.d

Injection Date:	07-Feb-2019 11:24:31	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91134-E-1-D	Lab Sample ID:	720-91134-1	Worklist Smp#:	8
Client ID:	DG-AD13S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

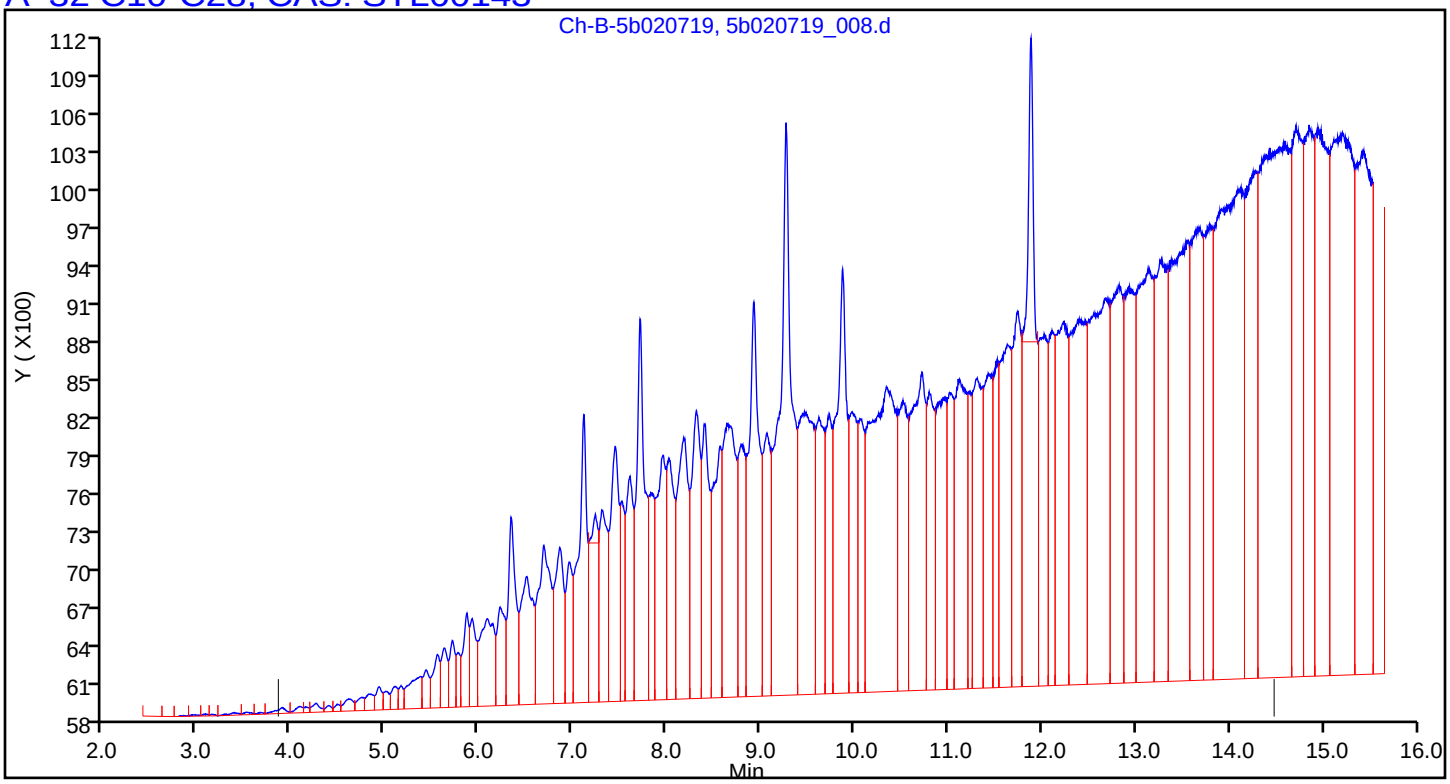


Report Date: 07-Feb-2019 11:54:39 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

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Injection Date:	07-Feb-2019 11:24:31	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-1-D	Lab Sample ID:	720-91134-1		
Client ID:	DG-AD13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

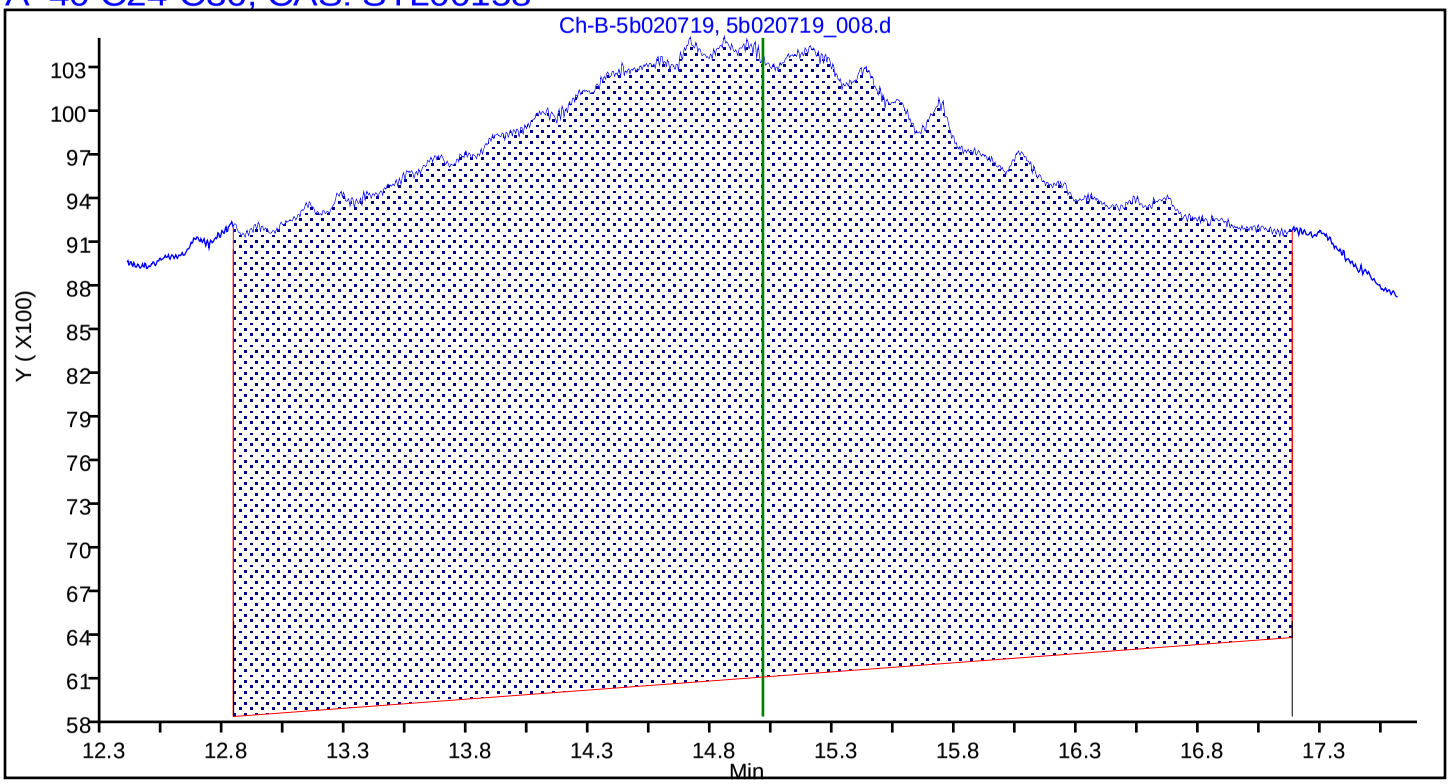


Report Date: 07-Feb-2019 11:54:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

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Lims ID:	720-91134-E-1-D	Lab Sample ID:	720-91134-1		
Client ID:	DG-AD13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

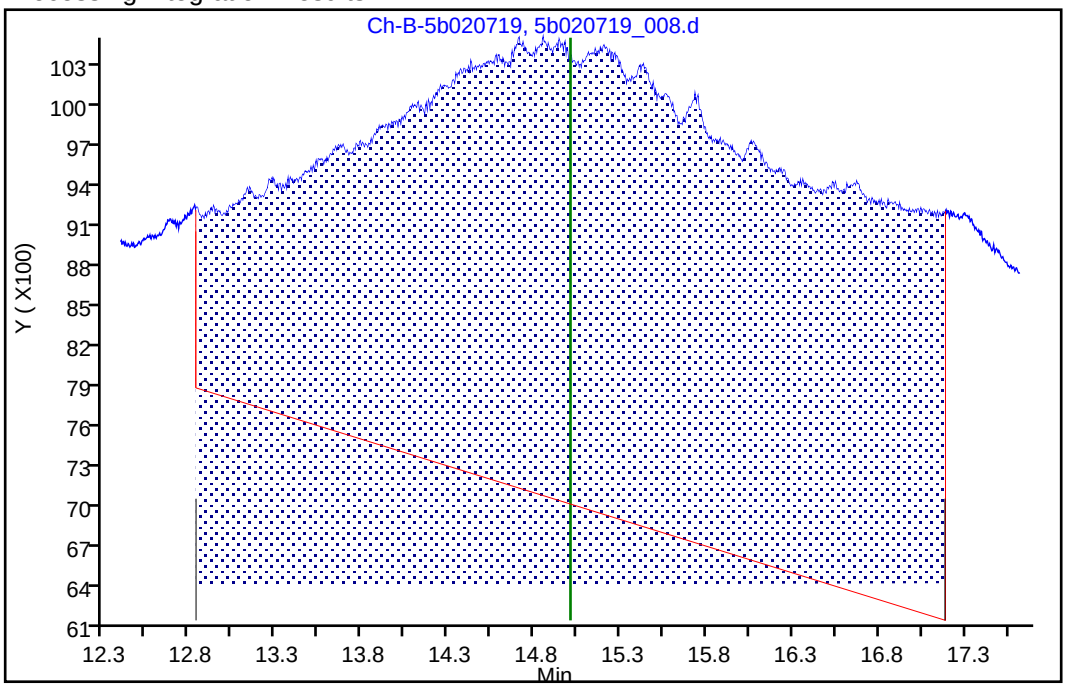
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Lims ID:	720-91134-E-1-D	Lab Sample ID:	720-91134-1		
Client ID:	DG-AD13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.009, CAS: STL00158

Signal: 1

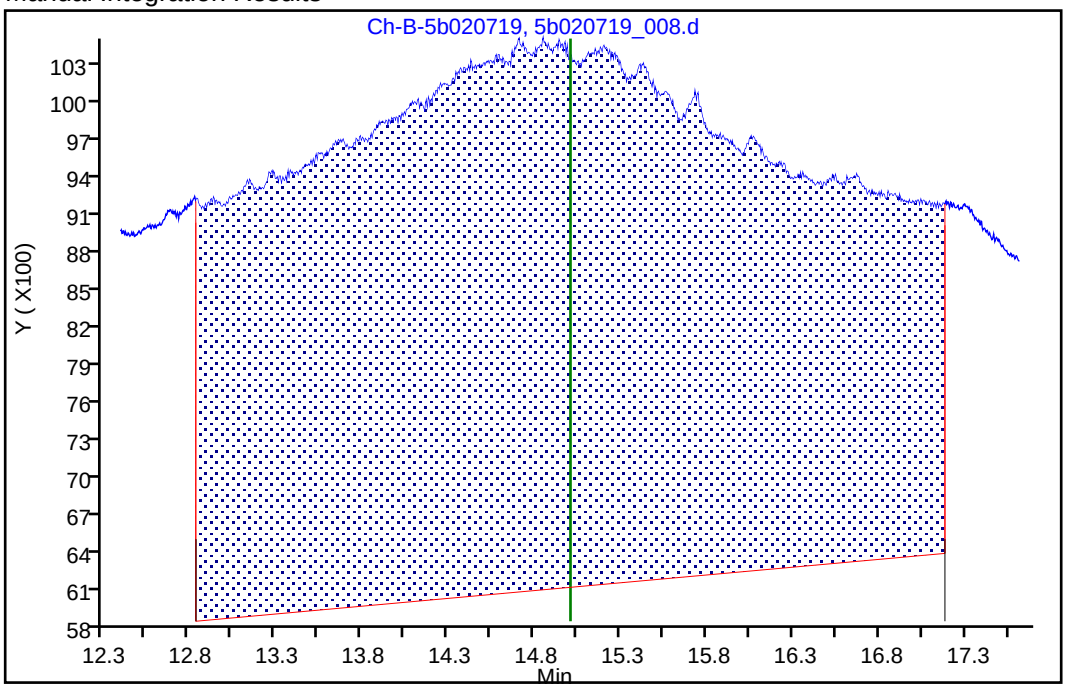
Processing Integration Results

RT: 15.01
Response: 3574792
Amount: 626.2528



Manual Integration Results

RT: 15.01
Response: 4692258
Amount: 822.0169



Reviewer: luj, 07-Feb-2019 11:54:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

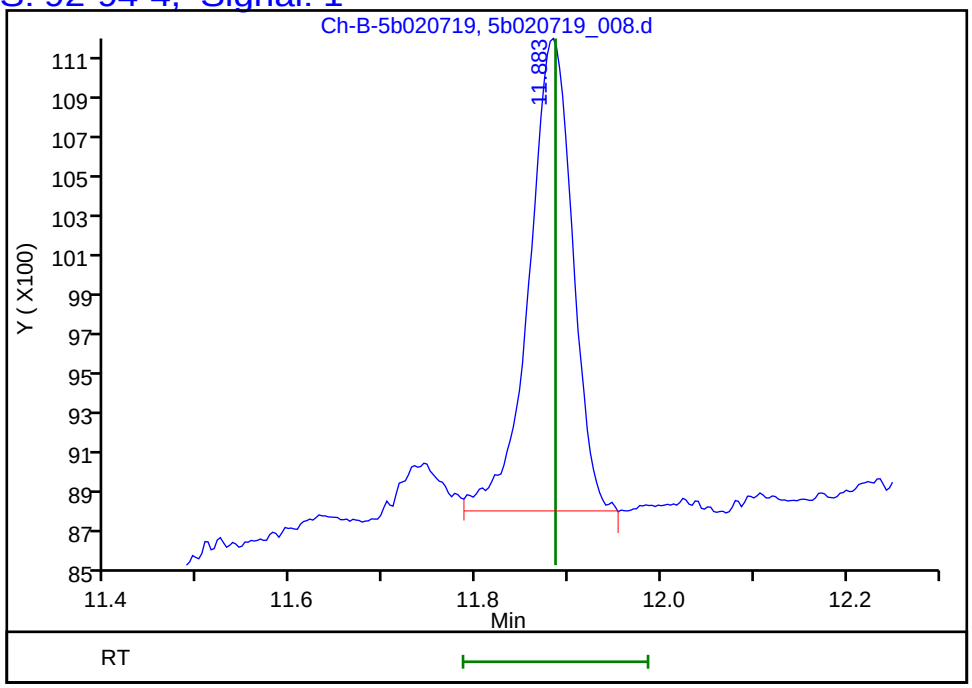
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190207-56484.b\5b020719_008.d

Injection Date:	07-Feb-2019 11:24:31	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-1-D	Lab Sample ID:	720-91134-1		
Client ID:	DG-AD13S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.88
Response: 38774
Amount: 3.375897



Reviewer: luj, 07-Feb-2019 11:54:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_025.d
Lims ID: 720-91134-E-2-B
Client ID: DG-AD13S-3.5-4
Sample Type: Client
Inject. Date: 14-Feb-2019 20:18:47 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 50.0000
Sample Info: #: 106 Name: 720-0056591-025
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m
Limit Group: DRO
Last Update: 15-Feb-2019 12:07:39 Calib Date: 14-Feb-2019 09:16:17
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0311

First Level Reviewer: luj Date: 15-Feb-2019 12:07:39

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane		2.628			ND	
	23 n-Decane	3.879	3.846	0.033	491	NC	
A	1 C9-C13	4.582	(2.628-6.536)		4931	0.4159	
A	21 Stoddard Solvent	4.582	(2.628-6.536)		4931	0.4338	
A	57 C10-C12	4.792	(3.846-5.738)		1881	0.1916	
	24 Dodecane	5.708	5.738	-0.030	709	NC	
A	3 C9 - C17	5.930	(2.628-9.233)		116655	8.49	
A	47 C9 - C18	6.219	(2.628-9.810)		235282	21.0	
A	60 C10-C16	6.226	(3.846-8.607)		55619	4.59	
A	15 Kerosene	6.496	(2.628-10.365)		235282	20.9	
A	25 C9-C19	6.496	(2.628-10.365)		235282	17.1	
	26 C13	6.496	6.536	-0.040	574	NC	
$	27 n-Decanoic Acid (Surr)		7.154			ND	U
A	59 C12-C16	7.172	(5.738-8.607)		54447	5.55	
A	62 C10-C20	7.371	(3.846-10.897)		582969	59.4	
A	28 C9-C24	7.721	(2.628-12.814)		2072688	211.1	
A	29 C9-C25	7.938	(2.628-13.248)		2390106	243.4	
A	54 C10-C23	8.105	(3.846-12.363)		1568553	159.8	
A	4 C10-C24	8.330	(3.846-12.814)		2071313	211.0	
A	16 C10-C25	8.547	(3.846-13.248)		2388731	243.3	
	45 Hexadecane	8.626	8.607	0.019	19296	NC	
A	14 C10-C26	8.756	(3.846-13.666)		2944168	299.9	
A	67 C12-C22	8.816	(5.738-11.895)		1031318	105.0	
A	5 Diesel	9.152	(3.846-14.458)		3674276	374.2	
A	32 C10-C28	9.152	(3.846-14.458)		3674276	374.2	
A	12 Unknown Hydrocarbons	9.152	(3.846-14.458)		3674276	NC	
A	30 C13-C22	9.215	(6.536-11.895)		1029508	104.9	
	44 Heptadecane		9.233			ND	
A	31 C12-C24	9.276	(5.738-12.814)		2070141	210.8	
	49 n-Octadecane		9.810			ND	
A	52 Mineral oil	9.898	(2.628-17.168)		8180537	733.0	
A	9 Crude Oil Range Organics (	9.695	(2.628-16.763)		7654977	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.898	(2.628-17.168)		6742597	NC	
33 C19	10.382	10.365	0.017	192743	NC	
A 64 C13-C28	10.497	(6.536-14.458)		3671294	373.9	
A 17 C10-C36	10.305	(3.846-16.763)		6741222	686.6	
A 13 C9-C40	10.647	(2.628-18.666)		9820309	1242.7	
A 68 Crude Oil Range Organics (	10.647	(2.628-18.666)		9820309	NC	
A 58 C16-C24	10.710	(8.607-12.814)		2015694	205.3	
61 icosane		10.897			ND	
A 6 C10-C40	11.256	(3.846-18.666)		9818114	1242.6	
$ 34 p-Terphenyl		11.873			ND	U
35 n-Docosane		11.895			ND	
A 18 C12-C40	12.202	(5.738-18.666)		9807294	1241.7	
36 Tricosane	12.391	12.363	0.028	147725	NC	
A 66 C13-C40	12.601	(6.536-18.666)		9548007	1211.8	
37 n-Tetracosane	12.810	12.814	-0.004	355035	NC	
A 2 C16-C36 ORO	12.887	(8.607-17.168)		6075506	851.6	
38 C25	13.254	13.248	0.006	127934	NC	
A 19 C16-C40	13.637	(8.607-18.666)		9665149	1225.5	
46 n-Hexacosane	13.660	13.666	-0.006	427503	NC	
A 20 C19-C36	13.766	(10.365-17.168)		5769700	739.9	
A 55 C23-C32	14.129	(12.363-15.895)		4134482	1006.6	
39 n-Octacosane	14.549	14.458	0.091	408004	NC	
65 C29	14.839	14.835	0.004	169036	NC	
A 40 C24-C36	14.991	(12.814-17.168)		5233940	916.9	
A 7 Motor Oil	14.991	(12.814-17.168)		5233940	916.9	
A 50 C25-C36	15.208	(13.248-17.168)		4819470	895.6	
A 10 C22-C40	15.281	(11.895-18.666)		7448606	940.2	
A 41 C23-C40	15.515	(12.363-18.666)		7081020	915.9	
A 8 C24-C40	15.740	(12.814-18.666)		6691687	897.1	
56 Dotriacontane	15.881	15.895	-0.014	171103	NC	
A 51 C28-C40	16.562	(14.458-18.666)		4881381	979.6	
A 63 C29-C40	16.751	(14.835-18.666)		4359549	983.0	
42 n-Hexatriacontane	17.260	17.168	0.092	3348967	NC	
43 C40		18.666			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

U - Marked Undetected

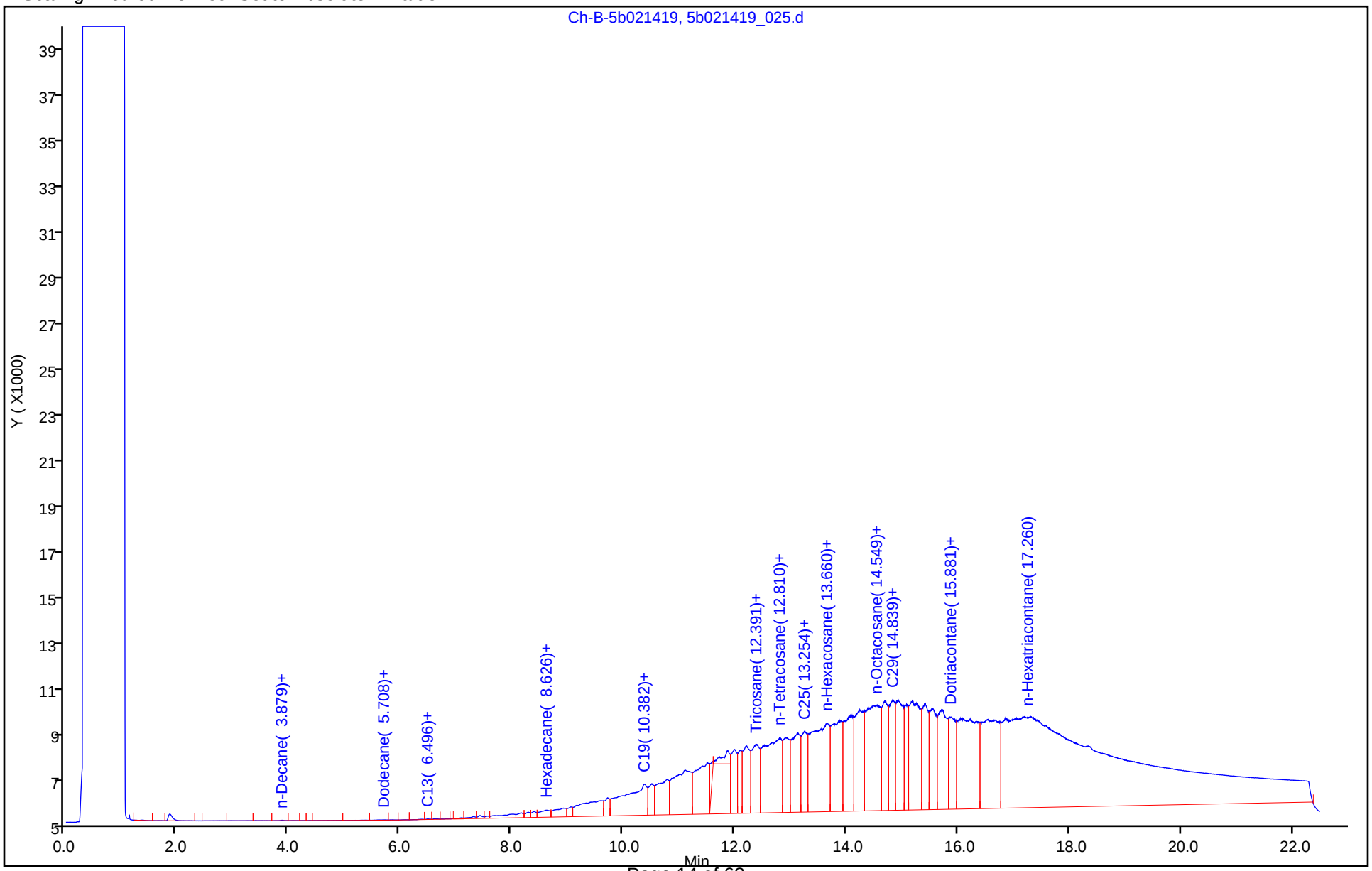
Report Date: 15-Feb-2019 12:07:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_025.d

Injection Date:	14-Feb-2019 20:18:47	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91134-E-2-B	Lab Sample ID:	720-91134-2	Worklist Smp#:	25
Client ID:	DG-AD13S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

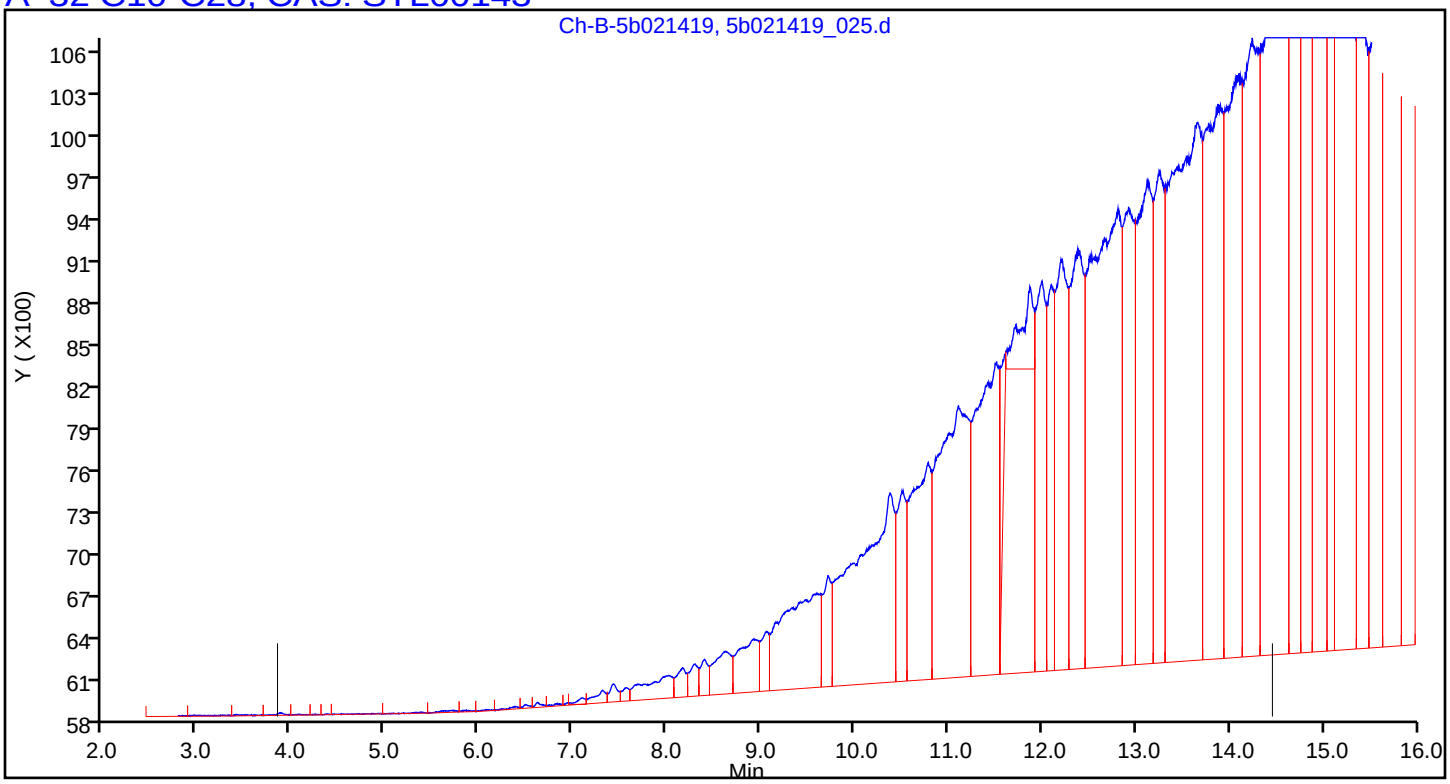


Report Date: 15-Feb-2019 12:07:41 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_025.d				
Injection Date:	14-Feb-2019 20:18:47	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-2-B	Lab Sample ID:	720-91134-2		
Client ID:	DG-AD13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

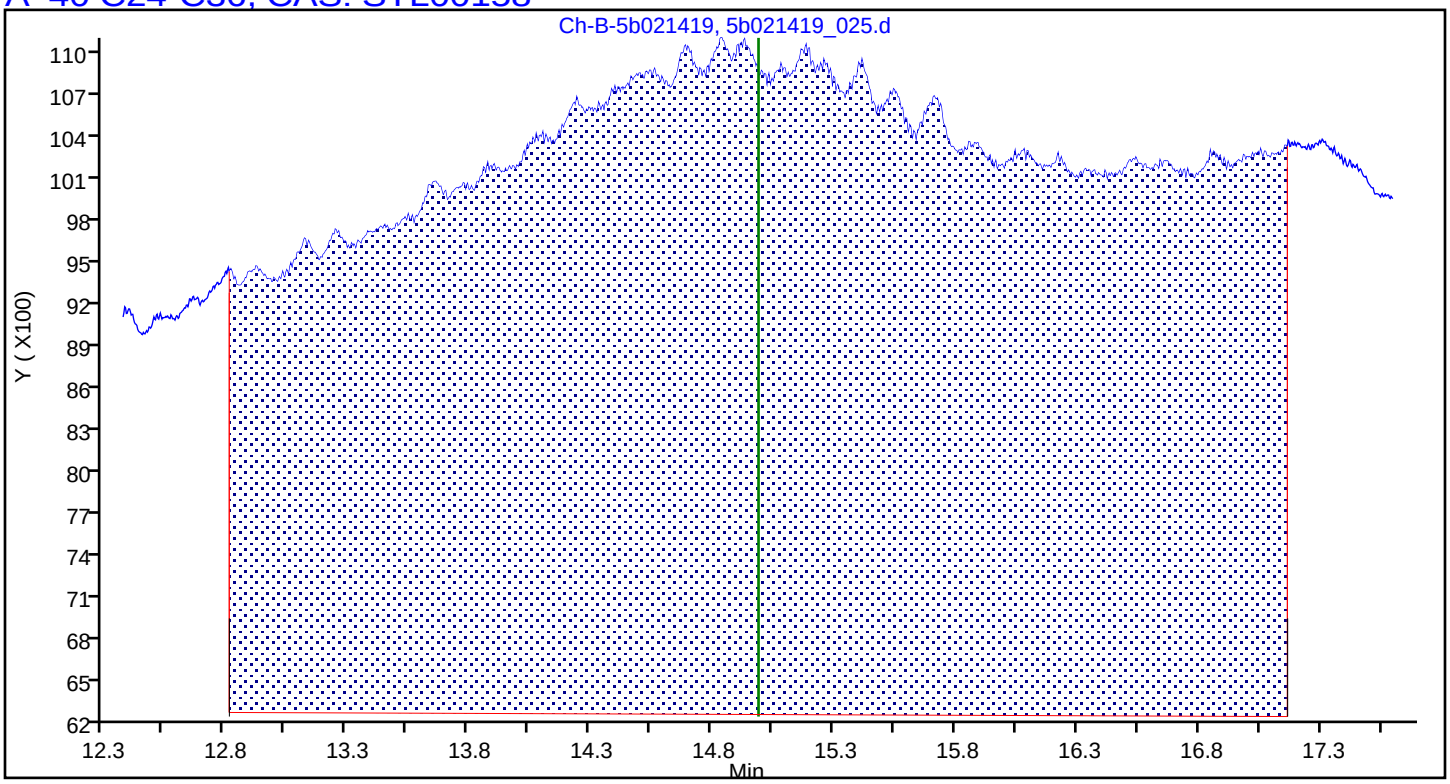


Report Date: 15-Feb-2019 12:07:42 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_025.d				
Injection Date:	14-Feb-2019 20:18:47	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-2-B	Lab Sample ID:	720-91134-2		
Client ID:	DG-AD13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



User Disabled Compound Report

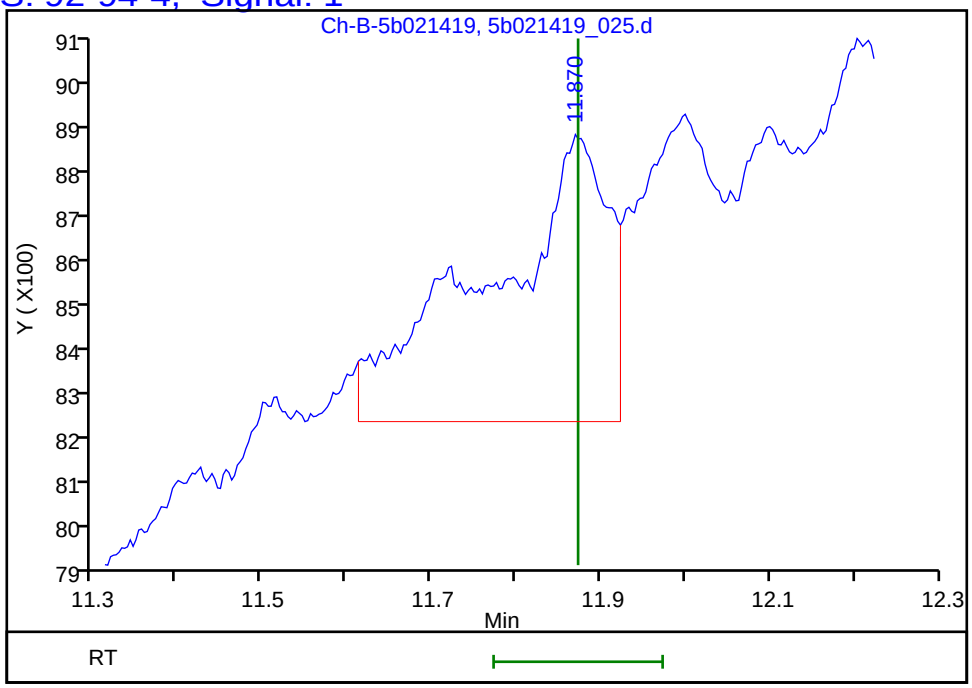
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_025.d

Injection Date:	14-Feb-2019 20:18:47	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-2-B	Lab Sample ID:	720-91134-2		
Client ID:	DG-AD13S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	50.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.87
Response: 28570
Amount: 2.487476



Reviewer: luj, 15-Feb-2019 12:07:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_026.d
Lims ID: 720-91134-E-3-B
Client ID: DG-AD13S-7.5-8
Sample Type: Client
Inject. Date: 14-Feb-2019 20:48:39 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 100.0000
Sample Info: #: 106 Name: 720-0056591-026
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m
Limit Group: DRO
Last Update: 15-Feb-2019 12:08:47 Calib Date: 14-Feb-2019 09:16:17
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0311

First Level Reviewer: luj Date: 15-Feb-2019 12:08:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.663	2.628	0.035	411	NC	
23 n-Decane	3.883	3.846	0.037	893	NC	M
A 1 C9-C13	4.582	(2.628-6.536)		173310	14.6	M
A 21 Stoddard Solvent	4.582	(2.628-6.536)		173310	15.2	M
A 57 C10-C12	4.792	(3.846-5.738)		58905	6.00	M
24 Dodecane	5.700	5.738	-0.038	12056	NC	M
A 3 C9 - C17	5.930	(2.628-9.233)		1129230	82.2	M
A 47 C9 - C18	6.219	(2.628-9.810)		1515397	135.0	M
A 60 C10-C16	6.226	(3.846-8.607)		810171	66.8	M
A 15 Kerosene	6.496	(2.628-10.365)		1899621	168.8	M
A 25 C9-C19	6.496	(2.628-10.365)		1899621	137.8	M
26 C13	6.490	6.536	-0.046	28140	NC	M
$ 27 n-Decanoic Acid (Surr)		7.154			ND	U
A 59 C12-C16	7.172	(5.738-8.607)		763322	77.7	M
A 62 C10-C20	7.371	(3.846-10.897)		2465333	251.1	M
A 28 C9-C24	7.721	(2.628-12.814)		4518128	460.2	M
A 29 C9-C25	7.938	(2.628-13.248)		5015128	510.8	M
A 54 C10-C23	8.105	(3.846-12.363)		3923181	399.6	M
A 4 C10-C24	8.330	(3.846-12.814)		4514494	459.8	M
A 16 C10-C25	8.547	(3.846-13.248)		5011494	510.4	M
45 Hexadecane	8.630	8.607	0.023	66213	NC	M
A 14 C10-C26	8.756	(3.846-13.666)		5391183	549.1	M
A 67 C12-C22	8.816	(5.738-11.895)		3447798	351.2	M
A 5 Diesel	9.152	(3.846-14.458)		6221749	633.7	M
A 32 C10-C28	9.152	(3.846-14.458)		6221749	633.7	M
A 12 Unknown Hydrocarbons	9.152	(3.846-14.458)		6221749	NC	M
A 30 C13-C22	9.215	(6.536-11.895)		3353111	341.5	M
44 Heptadecane	9.260	9.233	0.027	91580	NC	M
A 31 C12-C24	9.276	(5.738-12.814)		4467645	455.0	M
49 n-Octadecane	9.860	9.810	0.050	119613	NC	M
A 52 Mineral oil	9.898	(2.628-17.168)		9709400	869.9	
A 9 Crude Oil Range Organics (	9.542	(2.628-16.457)		8994813	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.898	(2.628-17.168)		8277219	NC	M
33 C19	10.387	10.365	0.022	162192	NC	M
A 64 C13-C28	10.497	(6.536-14.458)		6080213	619.3	M
A 17 C10-C36	10.151	(3.846-16.457)		8273585	842.7	M
A 13 C9-C40	10.647	(2.628-18.666)		11069937	1406.4	
A 68 Crude Oil Range Organics (	10.647	(2.628-18.666)		11069937	NC	
A 58 C16-C24	10.710	(8.607-12.814)		3704323	377.3	M
61 icosane	10.863	10.897	-0.034	68152	NC	M
A 6 C10-C40	11.256	(3.846-18.666)		11061354	1405.6	
$ 34 p-Terphenyl		11.873			ND	U
35 n-Docosane		11.895			ND	
A 18 C12-C40	12.202	(5.738-18.666)		10971724	1394.3	
36 Tricosane	12.407	12.363	0.044	178088	NC	M
A 66 C13-C40	12.601	(6.536-18.666)		9249271	1172.6	
37 n-Tetracosane	12.803	12.814	-0.011	171495	NC	M
A 2 C16-C36 ORO	12.887	(8.607-17.168)		4882222	684.4	
38 C25	13.243	13.248	-0.005	153608	NC	M
A 19 C16-C40	13.637	(8.607-18.666)		10098828	1282.5	
46 n-Hexacosane	13.643	13.666	-0.023	130815	NC	M
A 20 C19-C36	13.766	(10.365-17.168)		5476467	702.3	
A 55 C23-C32	14.129	(12.363-15.895)		3060276	745.0	
39 n-Octacosane	14.513	14.458	0.055	197505	NC	M
65 C29	14.930	14.835	0.095	304119	NC	M
A 40 C24-C36	14.991	(12.814-17.168)		4409651	772.5	M
A 7 Motor Oil	14.991	(12.814-17.168)		3575132	626.3	
A 50 C25-C36	15.208	(13.248-17.168)		3214211	597.3	
A 10 C22-C40	15.281	(11.895-18.666)		5261708	664.2	
A 41 C23-C40	15.515	(12.363-18.666)		4864450	629.2	
A 8 C24-C40	15.740	(12.814-18.666)		4490169	602.0	
56 Dotriacontane	15.863	15.895	-0.032	101885	NC	M
A 51 C28-C40	16.562	(14.458-18.666)		3076653	603.8	
A 63 C29-C40	16.751	(14.835-18.666)		2713134	595.9	
42 n-Hexatriacontane		17.168			ND	
43 C40		18.666			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

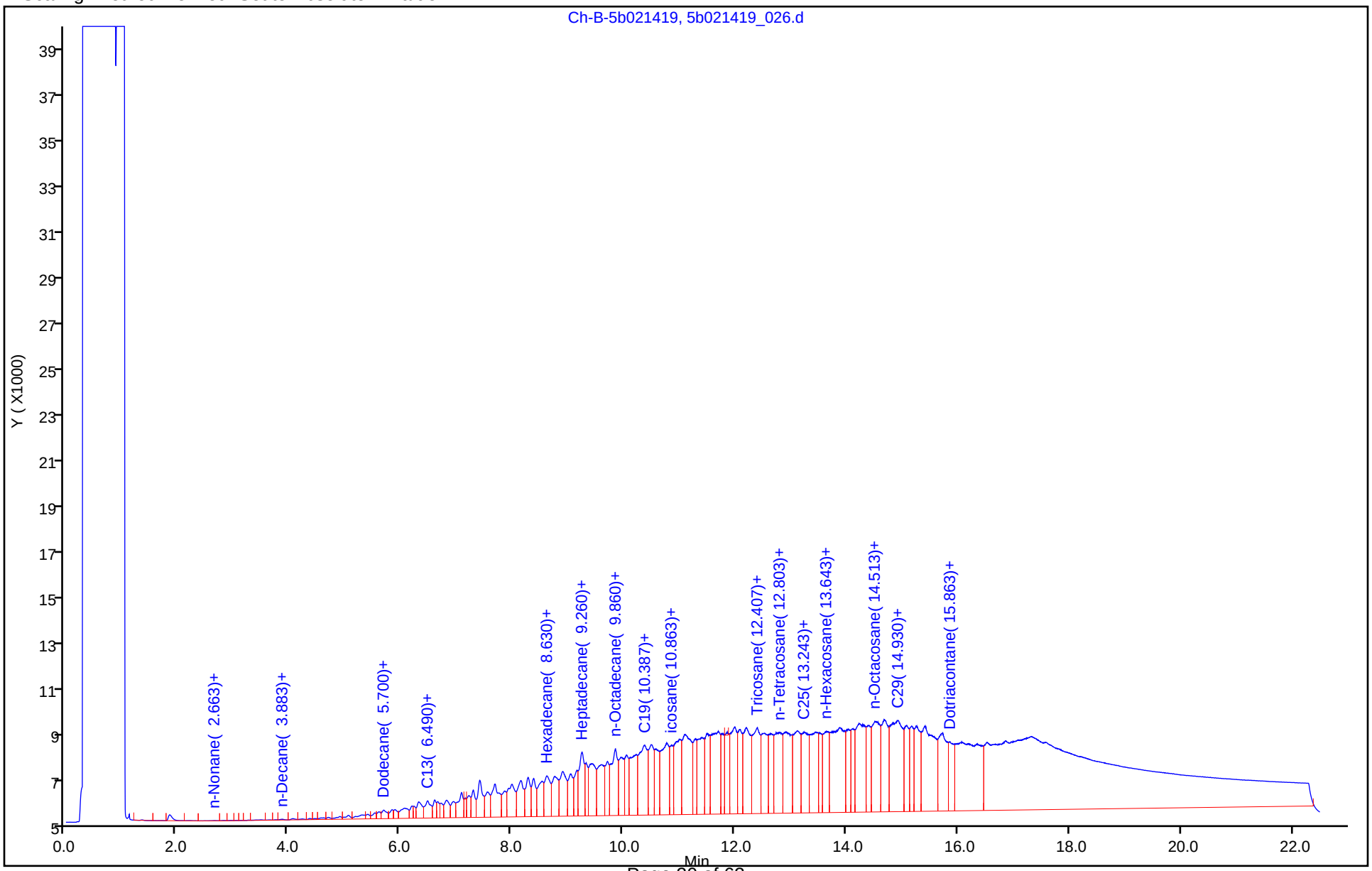
U - Marked Undetected

Report Date: 15-Feb-2019 12:08:48 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_026.d				
Injection Date:	14-Feb-2019 20:48:39	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91134-E-3-B	Lab Sample ID:	720-91134-3	Worklist Smp#:	26
Client ID:	DG-AD13S-7.5-8				
Injection Vol:	1.0 ul	Dil. Factor:	100.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

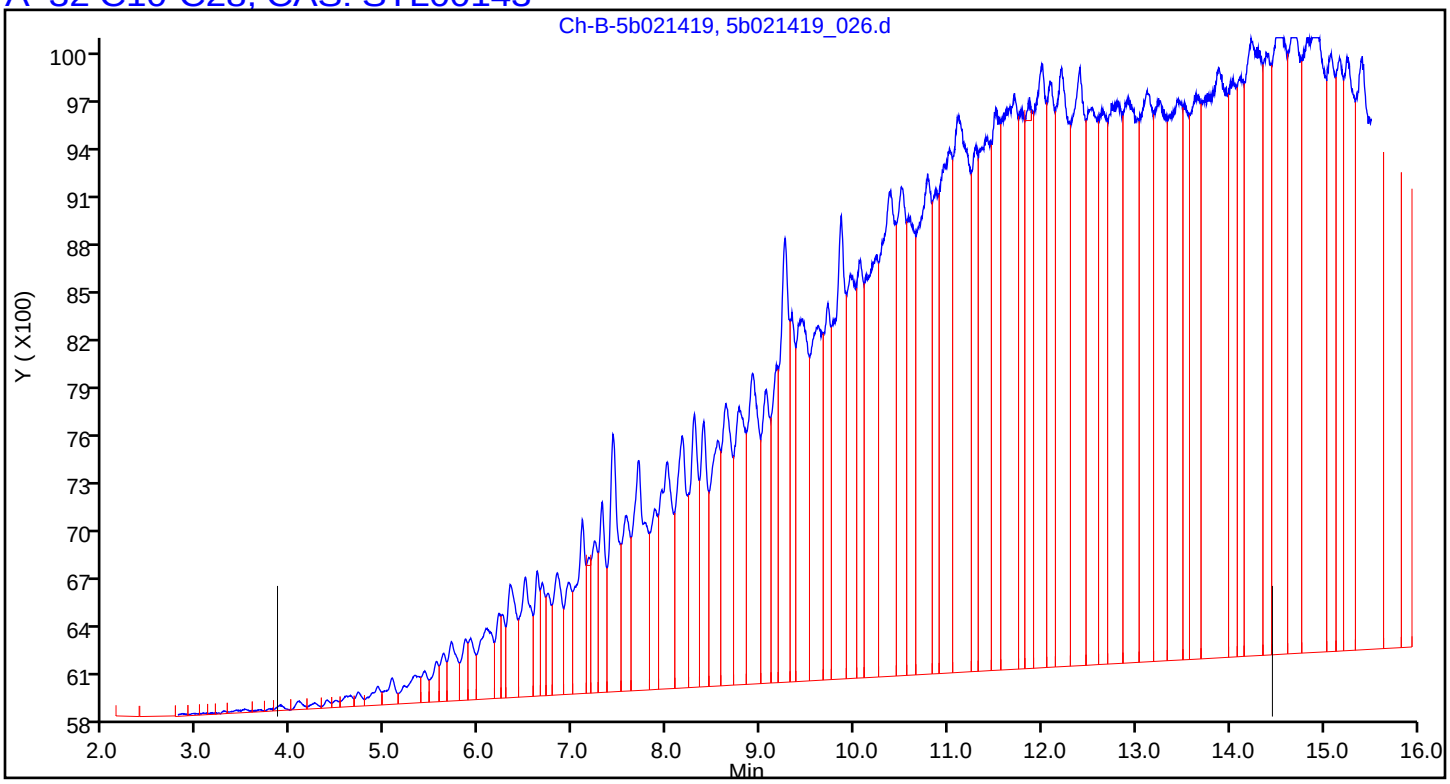


Report Date: 15-Feb-2019 12:08:50 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_026.d				
Injection Date:	14-Feb-2019 20:48:39	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-3-B	Lab Sample ID:	720-91134-3		
Client ID:	DG-AD13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

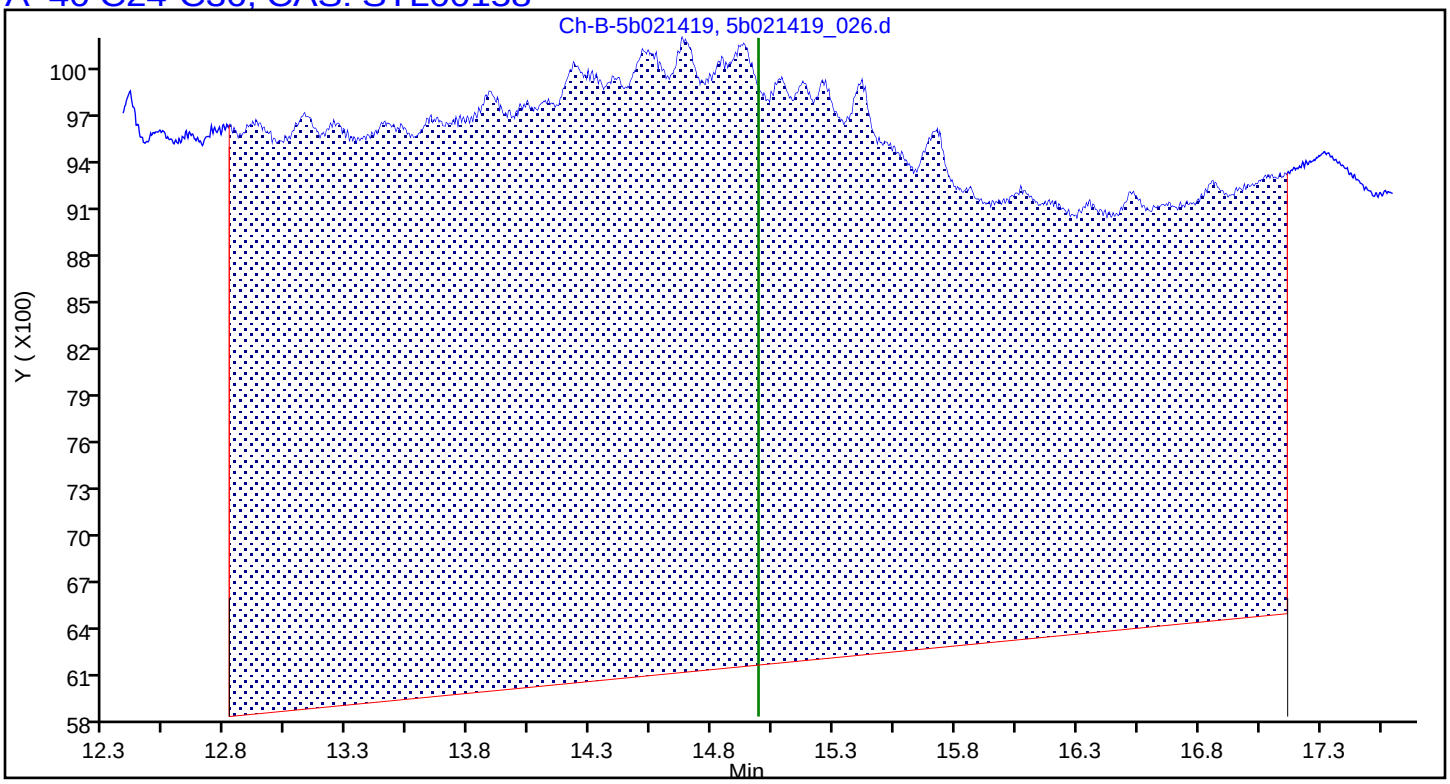


Report Date: 15-Feb-2019 12:08:51 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_026.d				
Injection Date:	14-Feb-2019 20:48:39	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-3-B	Lab Sample ID:	720-91134-3		
Client ID:	DG-AD13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

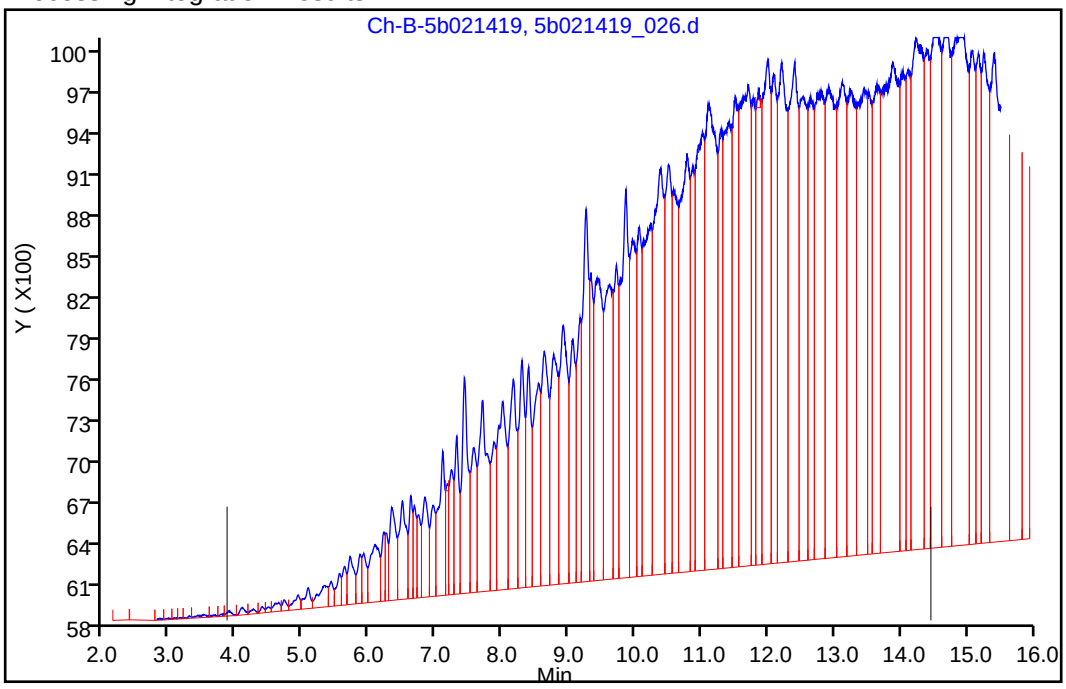
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Injection Date:	14-Feb-2019 20:48:39	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-3-B	Lab Sample ID:	720-91134-3		
Client ID:	DG-AD13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.152, CAS: STL00143

Signal: 1

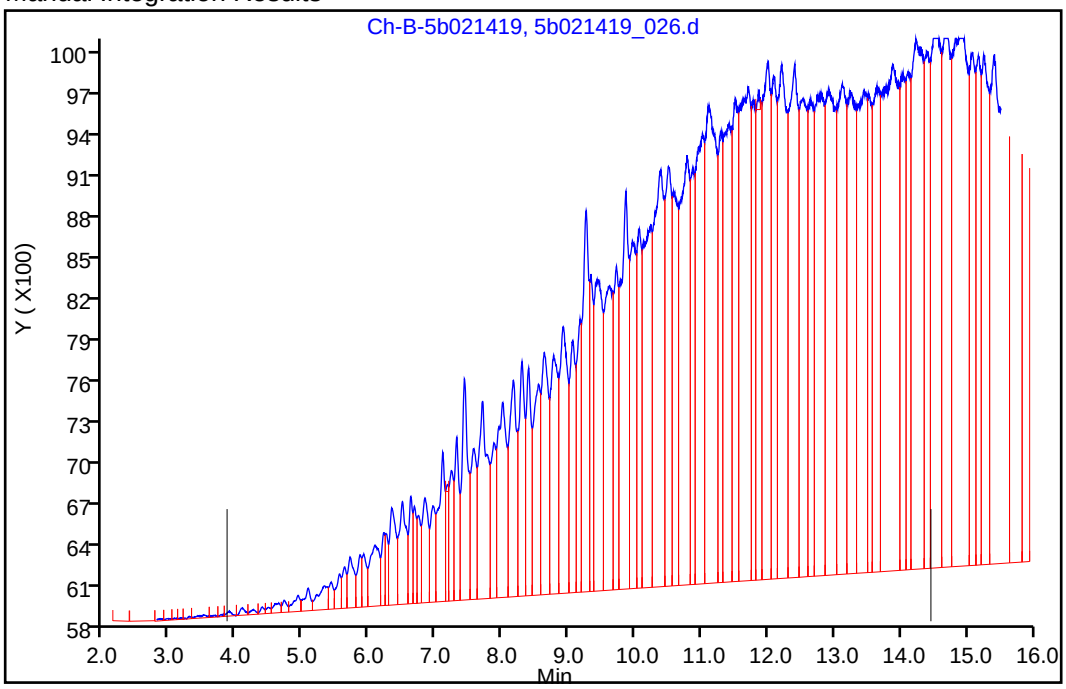
Processing Integration Results

RT: 9.15
Response: 5854837
Amount: 596.3239



Manual Integration Results

RT: 9.15
Response: 6221749
Amount: 633.6945



Reviewer: luj, 15-Feb-2019 12:08:26

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

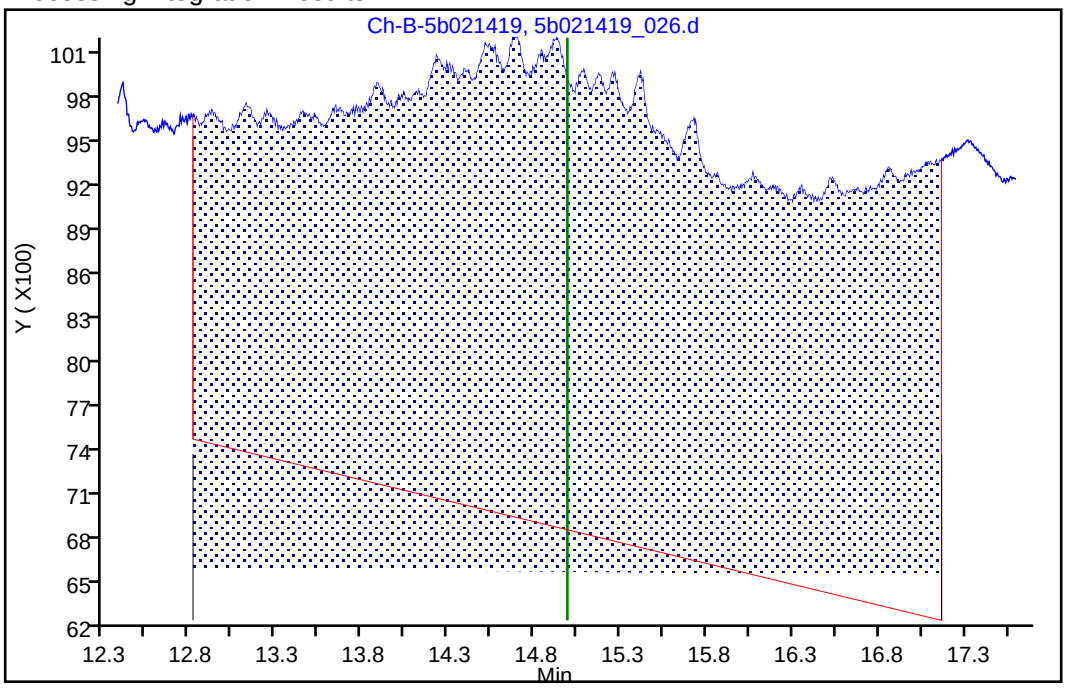
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_026.d				
Injection Date:	14-Feb-2019 20:48:39	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-3-B	Lab Sample ID:	720-91134-3		
Client ID:	DG-AD13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.991, CAS: STL00158

Signal: 1

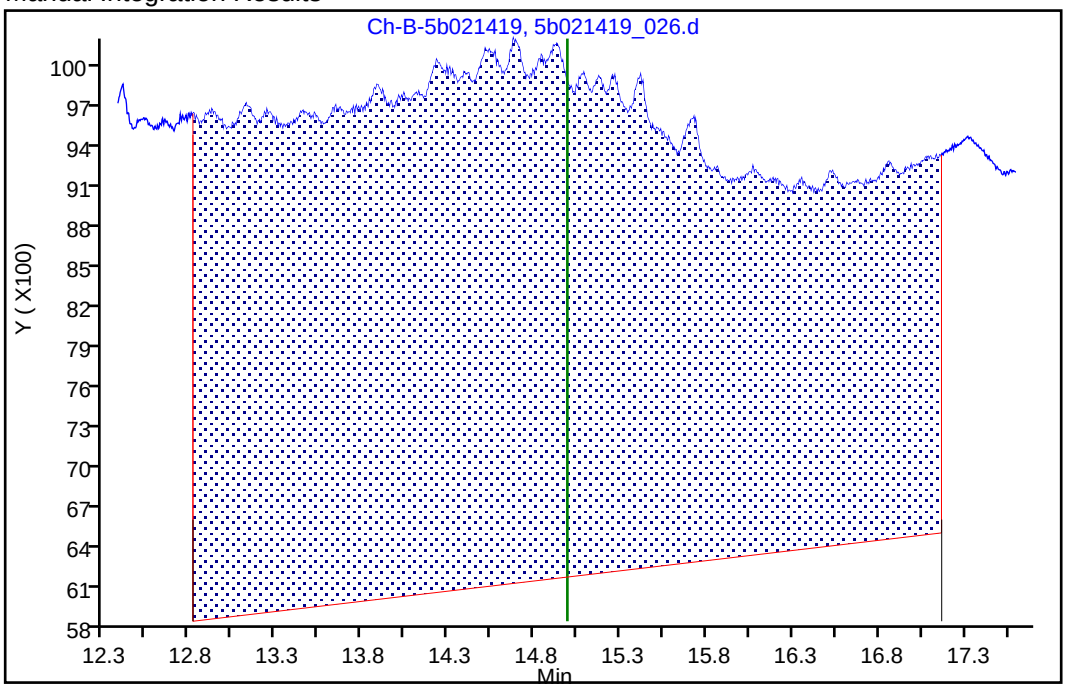
Processing Integration Results

RT: 14.99
Response: 3575132
Amount: 626.3123



Manual Integration Results

RT: 14.99
Response: 4409651
Amount: 772.5082



Reviewer: luj, 15-Feb-2019 12:08:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

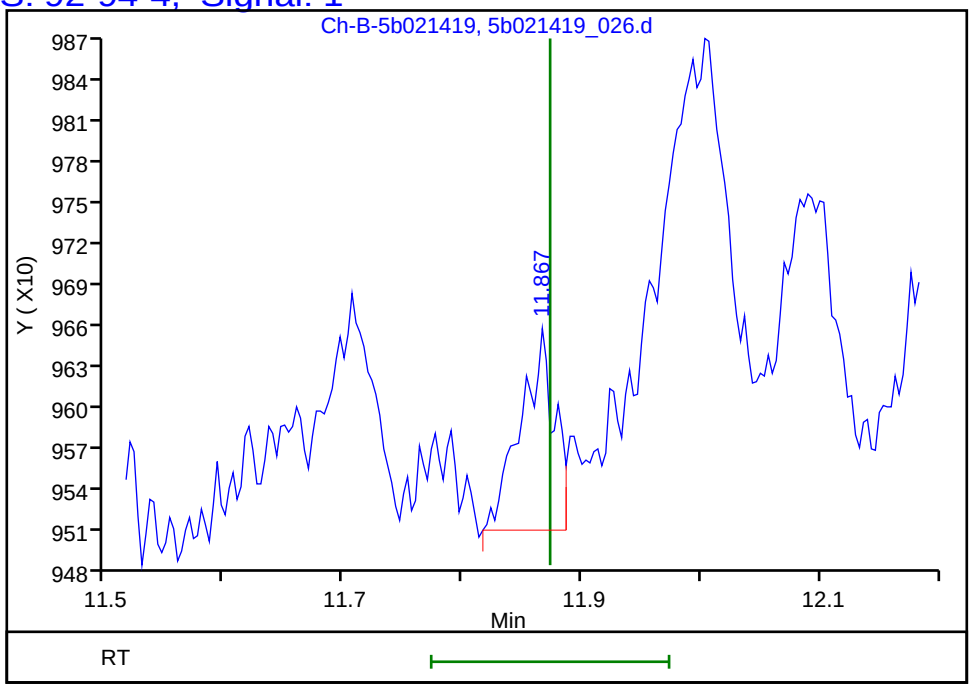
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_026.d

Injection Date:	14-Feb-2019 20:48:39	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-3-B	Lab Sample ID:	720-91134-3		
Client ID:	DG-AD13S-7.5-8				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.87
Response: 1426
Amount: 0.124156



Reviewer: luj, 15-Feb-2019 12:08:47
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_027.d
Lims ID: 720-91134-E-4-E
Client ID: DG-AV9S-0.5-1
Sample Type: Client
Inject. Date: 14-Feb-2019 21:18:27 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: #: 106 Name: 720-0056591-027
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m
Limit Group: DRO
Last Update: 15-Feb-2019 12:10:04 Calib Date: 14-Feb-2019 09:16:17
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0311

First Level Reviewer: luj Date: 15-Feb-2019 12:10:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.675	2.628	0.047	1112	NC	
23 n-Decane	3.877	3.846	0.031	12158	NC	M
A 1 C9-C13	4.582	(2.628-6.536)		387051	32.6	M
A 21 Stoddard Solvent	4.582	(2.628-6.536)		387051	34.0	M
A 57 C10-C12	4.792	(3.846-5.738)		161631	16.5	M
24 Dodecane	5.700	5.738	-0.038	24724	NC	M
A 3 C9 - C17	5.930	(2.628-9.233)		1894116	137.9	M
A 47 C9 - C18	6.219	(2.628-9.810)		2568442	228.8	M
A 60 C10-C16	6.226	(3.846-8.607)		1475930	121.7	M
A 15 Kerosene	6.496	(2.628-10.365)		2990778	265.8	M
A 25 C9-C19	6.496	(2.628-10.365)		2990778	216.9	M
26 C13	6.487	6.536	-0.049	49946	NC	M
$ 27 n-Decanoic Acid (Surr)		7.154			ND	U
A 59 C12-C16	7.172	(5.738-8.607)		1339023	136.4	M
A 62 C10-C20	7.371	(3.846-10.897)		4048743	412.4	M
A 28 C9-C24	7.721	(2.628-12.814)		7223267	735.7	M
A 29 C9-C25	7.938	(2.628-13.248)		8194179	834.6	M
A 54 C10-C23	8.105	(3.846-12.363)		6500493	662.1	M
A 4 C10-C24	8.330	(3.846-12.814)		7215133	734.9	M
A 16 C10-C25	8.547	(3.846-13.248)		8186045	833.8	M
45 Hexadecane	8.630	8.607	0.023	98465	NC	M
A 14 C10-C26	8.756	(3.846-13.666)		8840182	900.4	M
A 67 C12-C22	8.816	(5.738-11.895)		5823664	593.1	M
A 5 Diesel	9.152	(3.846-14.458)		10182521	1037.1	M
A 32 C10-C28	9.152	(3.846-14.458)		10182521	1037.1	M
A 12 Unknown Hydrocarbons	9.152	(3.846-14.458)		10182521	NC	M
A 30 C13-C22	9.215	(6.536-11.895)		5631600	573.6	M
44 Heptadecane	9.253	9.233	0.020	205701	NC	M
A 31 C12-C24	9.276	(5.738-12.814)		7078226	720.9	M
49 n-Octadecane	9.863	9.810	0.053	181054	NC	M
A 52 Mineral oil	9.898	(2.628-17.168)		15473750	1386.4	
A 9 Crude Oil Range Organics (	9.887	(2.628-17.147)		15443455	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.898	(2.628-17.168)		14760922	NC	M
33 C19	10.383	10.365	0.018	419686	NC	M
A 64 C13-C28	10.497	(6.536-14.458)		9853550	1003.6	M
A 17 C10-C36	10.496	(3.846-17.147)		14752788	1502.6	M
A 13 C9-C40	10.647	(2.628-18.666)		17315152	2224.9	
A 68 Crude Oil Range Organics (	10.647	(2.628-18.666)		17315152	NC	
A 58 C16-C24	10.710	(8.607-12.814)		5739203	584.5	M
61 icosane	10.943	10.897	0.046	260776	NC	M
A 6 C10-C40	11.256	(3.846-18.666)		17299324	2223.0	
$ 34 p-Terphenyl		11.873			ND	U
35 n-Docosane		11.895			ND	
A 18 C12-C40	12.202	(5.738-18.666)		17116516	2199.5	
36 Tricosane	12.400	12.363	0.037	275769	NC	M
A 66 C13-C40	12.601	(6.536-18.666)		15173363	1950.3	
37 n-Tetracosane	12.827	12.814	0.013	234951	NC	M
A 2 C16-C36 ORO	12.887	(8.607-17.168)		7606195	1066.2	
38 C25	13.233	13.248	-0.015	267747	NC	M
A 19 C16-C40	13.637	(8.607-18.666)		15683845	2015.3	
46 n-Hexacosane	13.653	13.666	-0.013	198207	NC	M
A 20 C19-C36	13.766	(10.365-17.168)		9389806	1204.2	
A 55 C23-C32	14.129	(12.363-15.895)		4991033	1215.1	
39 n-Octacosane	14.500	14.458	0.042	60449	NC	M
65 C29	14.833	14.835	-0.002	553950	NC	M
A 40 C24-C36	14.991	(12.814-17.168)		7459379	1306.8	M
A 7 Motor Oil	14.991	(12.814-17.168)		5992925	1049.9	
A 50 C25-C36	15.208	(13.248-17.168)		5442915	1011.4	
A 10 C22-C40	15.281	(11.895-18.666)		8316842	1049.8	
A 41 C23-C40	15.515	(12.363-18.666)		7757718	1003.4	
A 8 C24-C40	15.740	(12.814-18.666)		7198477	965.1	
56 Dotriacontane	15.867	15.895	-0.028	310343	NC	M
A 51 C28-C40	16.562	(14.458-18.666)		4984866	1001.2	
A 63 C29-C40	16.751	(14.835-18.666)		4377850	987.3	
42 n-Hexatriacontane		17.168			ND	
43 C40		18.666			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

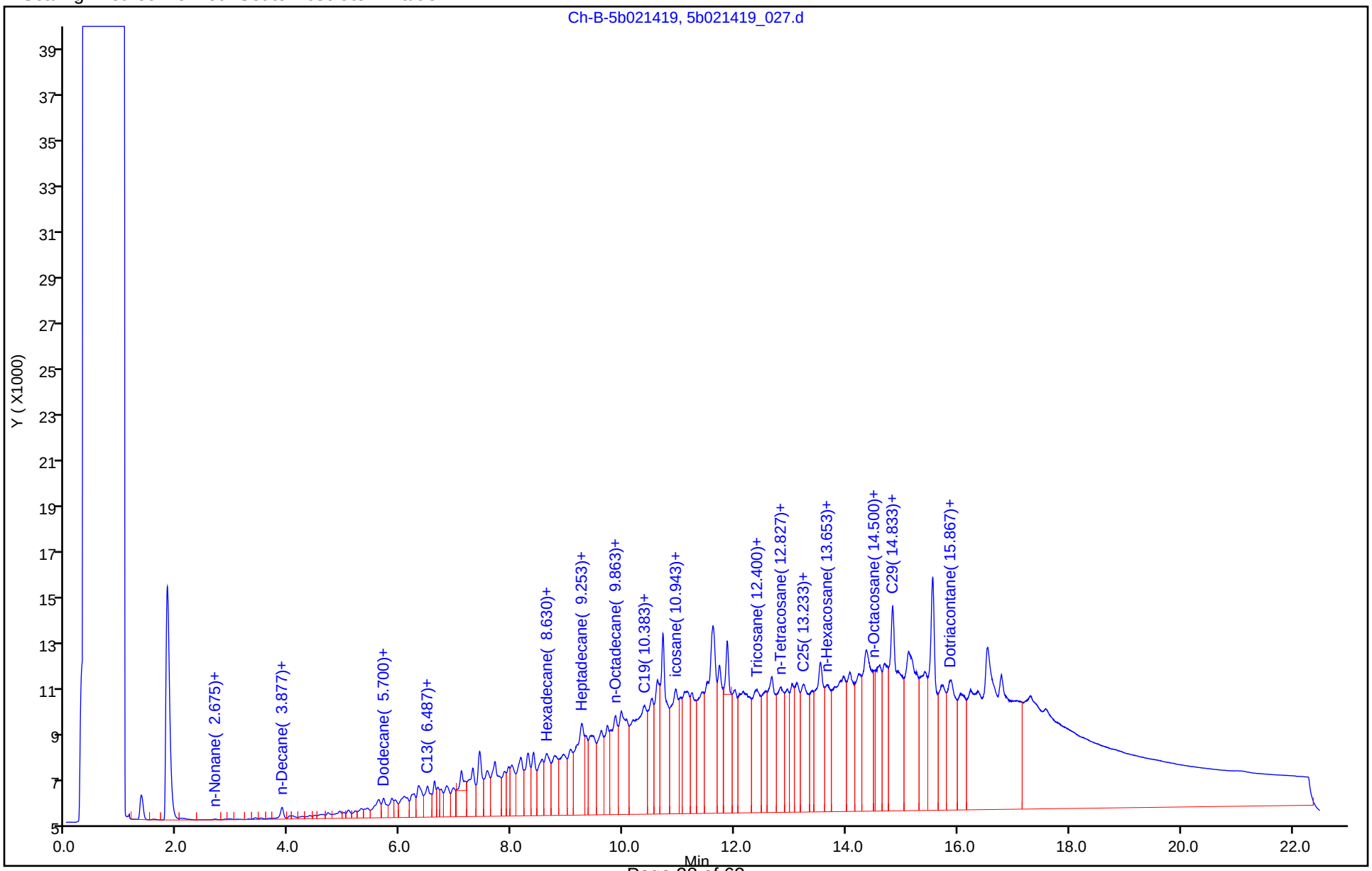
U - Marked Undetected

Report Date: 15-Feb-2019 12:10:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_027.d				
Injection Date:	14-Feb-2019 21:18:27	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91134-E-4-E	Lab Sample ID:	720-91134-4	Worklist Smp#:	27
Client ID:	DG-AV9S-0.5-1				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

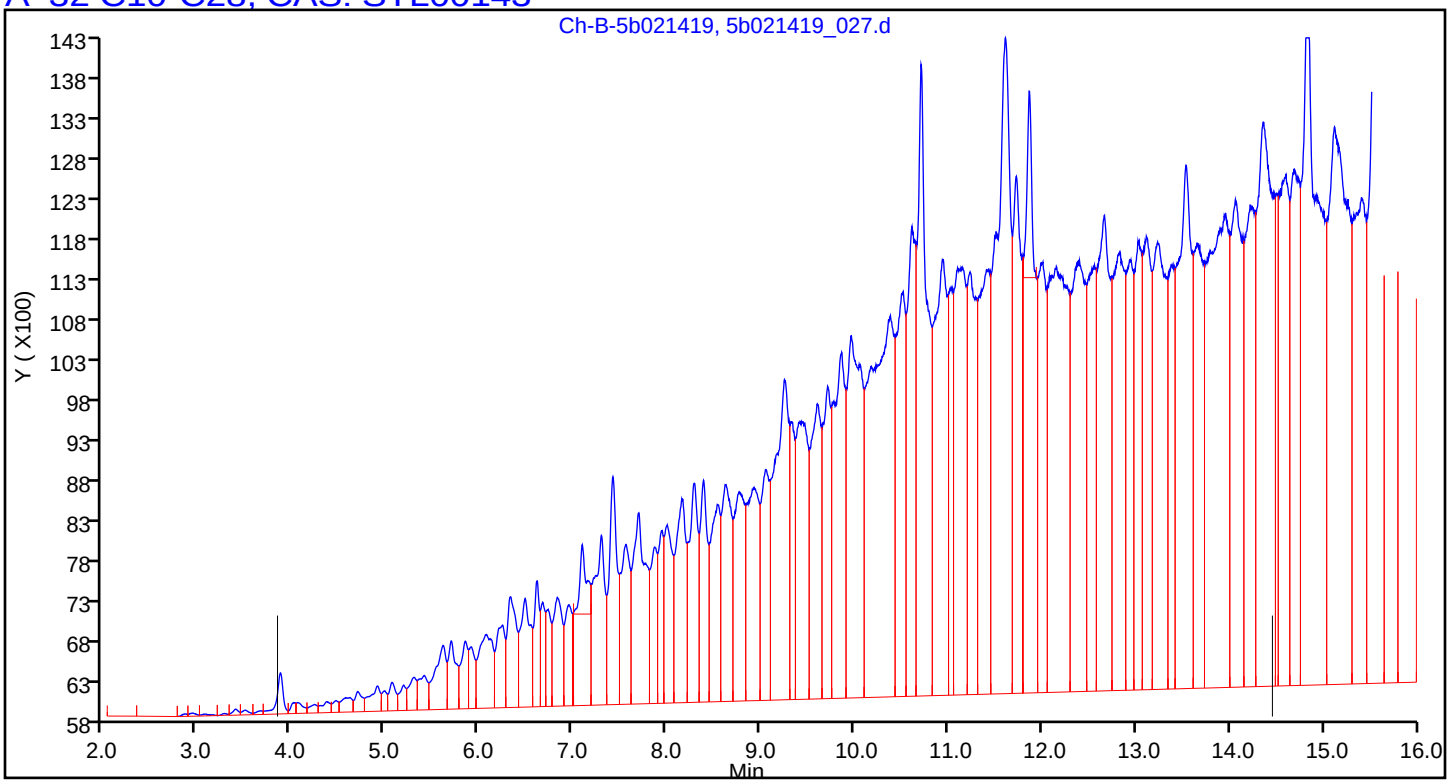


Report Date: 15-Feb-2019 12:10:06 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_027.d				
Injection Date:	14-Feb-2019 21:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-4-E	Lab Sample ID:	720-91134-4		
Client ID:	DG-AV9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

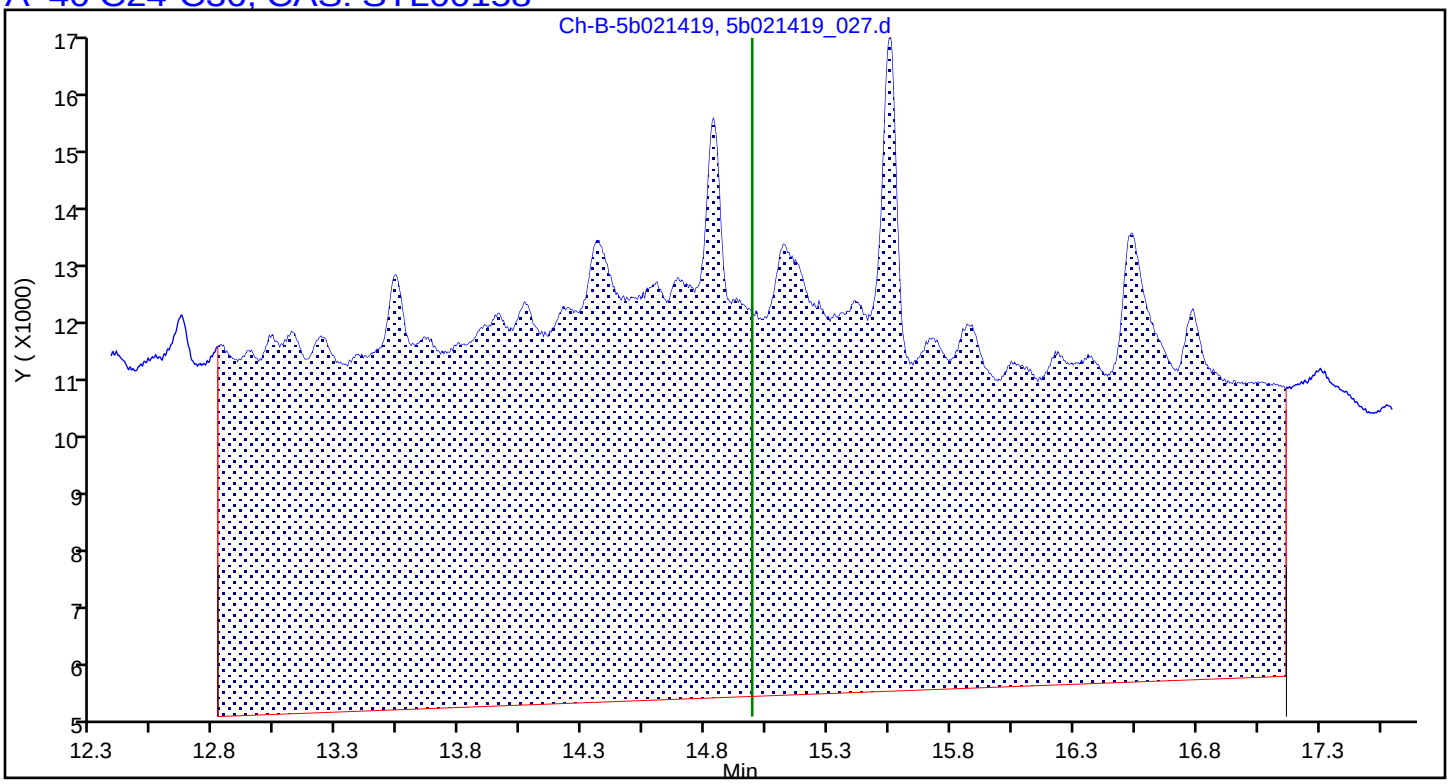


Report Date: 15-Feb-2019 12:10:07 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_027.d				
Injection Date:	14-Feb-2019 21:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-4-E	Lab Sample ID:	720-91134-4		
Client ID:	DG-AV9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

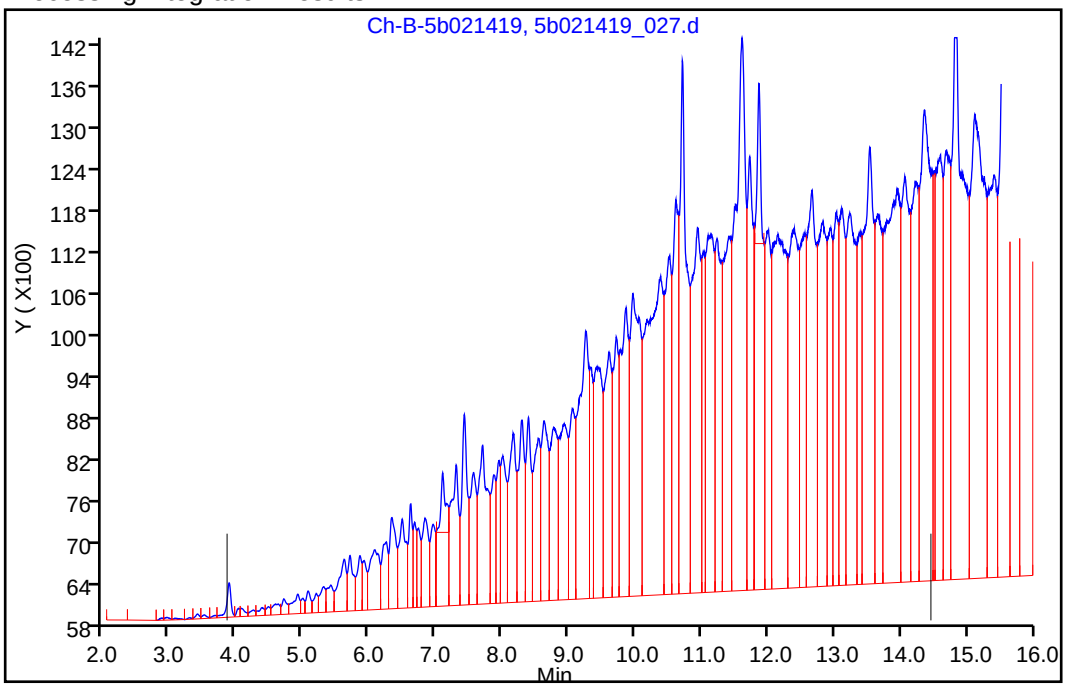
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_027.d				
Injection Date:	14-Feb-2019 21:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-4-E	Lab Sample ID:	720-91134-4		
Client ID:	DG-AV9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.152, CAS: STL00143

Signal: 1

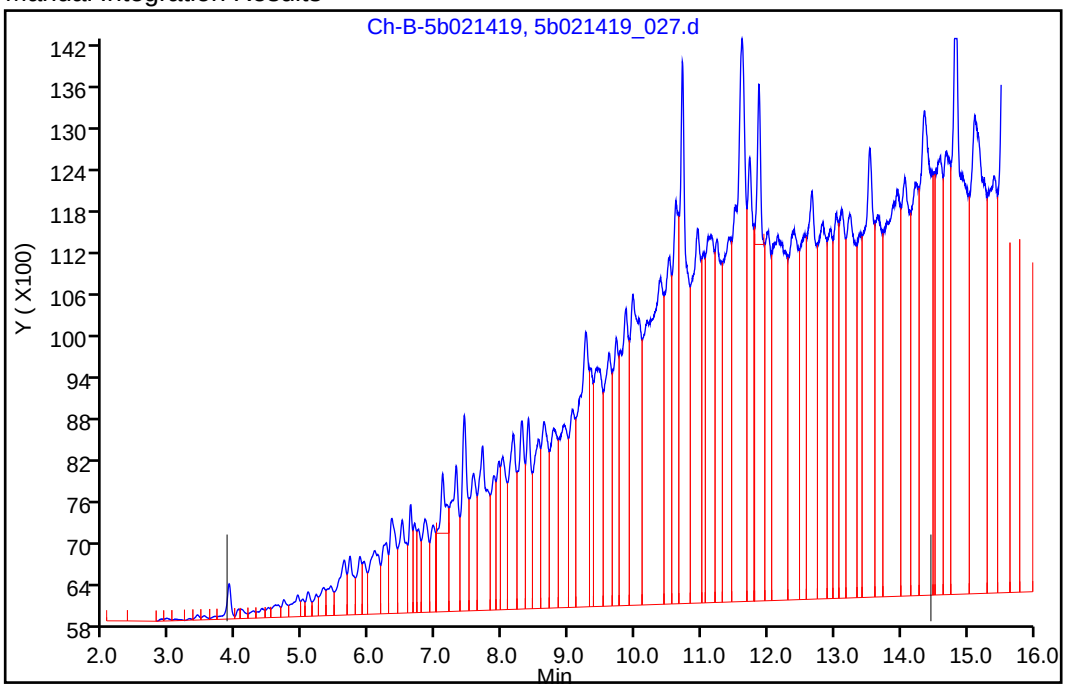
Processing Integration Results

RT: 9.15
Response: 9571859
Amount: 974.9082



Manual Integration Results

RT: 9.15
Response: 10182521
Amount: 1037.1050



Reviewer: luj, 15-Feb-2019 12:09:49
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

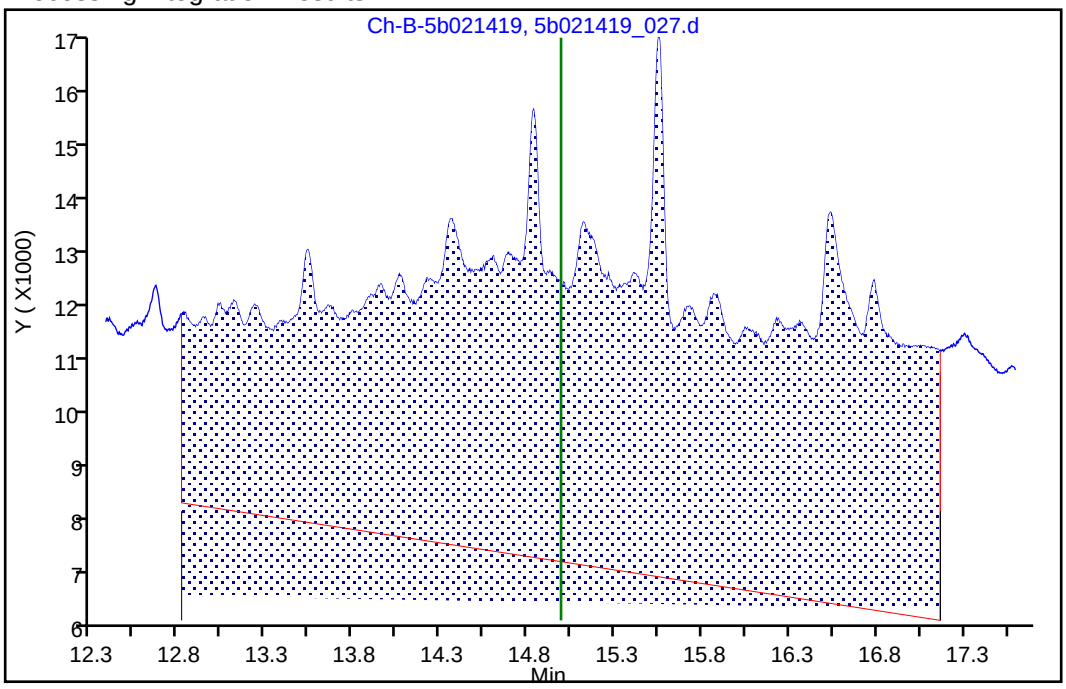
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_027.d				
Injection Date:	14-Feb-2019 21:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-4-E	Lab Sample ID:	720-91134-4		
Client ID:	DG-AV9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.991, CAS: STL00158

Signal: 1

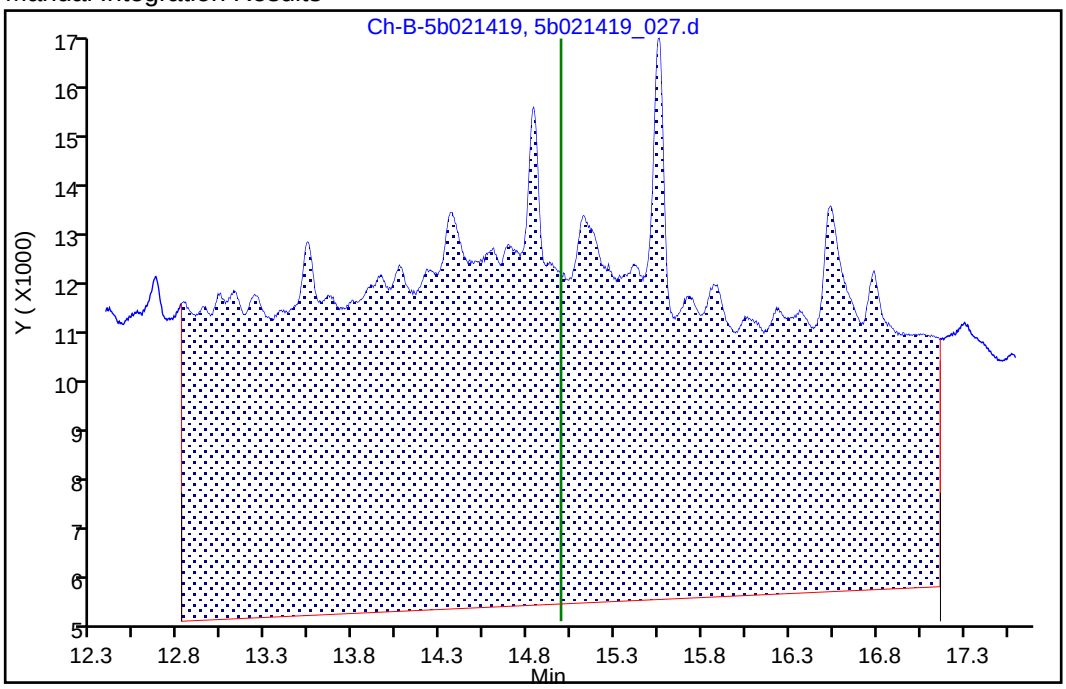
Processing Integration Results

RT: 14.99
Response: 5992925
Amount: 1049.8753



Manual Integration Results

RT: 14.99
Response: 7459379
Amount: 1306.7772



Reviewer: luj, 15-Feb-2019 12:09:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

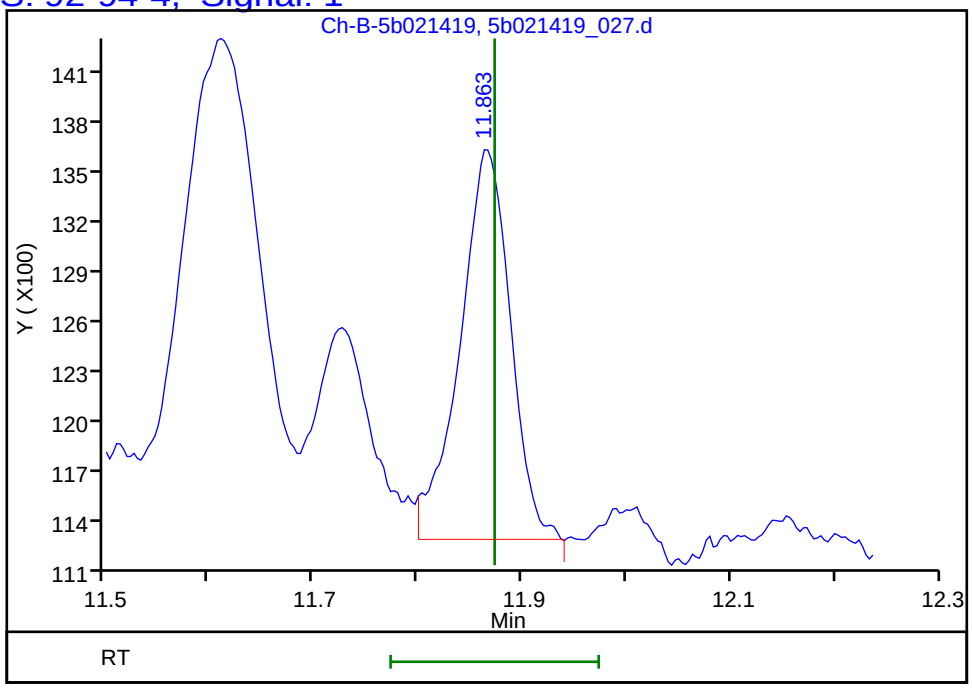
User Disabled Compound Report

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_027.d				
Injection Date:	14-Feb-2019 21:18:27	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-4-E	Lab Sample ID:	720-91134-4		
Client ID:	DG-AV9S-0.5-1				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 38790
Amount: 3.377290



Reviewer: luj, 15-Feb-2019 12:10:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_019.d
Lims ID: 720-91134-E-5-C
Client ID: DG-AV9S-3.5-4
Sample Type: Client
Inject. Date: 14-Feb-2019 17:21:16 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 106 Name: 720-0056591-019
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m
Limit Group: DRO
Last Update: 14-Feb-2019 17:49:38 Calib Date: 14-Feb-2019 09:16:17
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0316

First Level Reviewer: luj Date: 14-Feb-2019 17:49:38

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.670	2.628	0.042	3400	NC	M
23 n-Decane	3.850	3.846	0.004	4363	NC	M
A 1 C9-C13	4.582	(2.628-6.536)		89219	7.53	M
A 21 Stoddard Solvent	4.582	(2.628-6.536)		89219	7.85	M
A 57 C10-C12	4.792	(3.846-5.738)		46220	4.71	M
24 Dodecane	5.667	5.738	-0.071	16665	NC	M
A 3 C9 - C17	5.930	(2.628-9.233)		302627	22.0	M
A 47 C9 - C18	6.219	(2.628-9.810)		368389	32.8	M
A 60 C10-C16	6.226	(3.846-8.607)		193727	16.0	M
A 15 Kerosene	6.496	(2.628-10.365)		477946	42.5	M
A 25 C9-C19	6.496	(2.628-10.365)		477946	34.7	M
26 C13	6.533	6.536	-0.003	5715	NC	M
$ 27 n-Decanoic Acid (Surr)		7.154			ND	U
A 59 C12-C16	7.172	(5.738-8.607)		164172	16.7	M
A 62 C10-C20	7.371	(3.846-10.897)		692164	70.5	M
A 28 C9-C24	7.721	(2.628-12.814)		1633742	166.4	M
A 29 C9-C25	7.938	(2.628-13.248)		1992863	203.0	M
A 54 C10-C23	8.105	(3.846-12.363)		1363994	138.9	M
A 4 C10-C24	8.330	(3.846-12.814)		1612298	164.2	M
A 16 C10-C25	8.547	(3.846-13.248)		1971419	200.8	M
45 Hexadecane	8.603	8.607	-0.004	20270	NC	M
A 14 C10-C26	8.756	(3.846-13.666)		2145111	218.5	M
A 67 C12-C22	8.816	(5.738-11.895)		1198272	122.0	M
A 5 Diesel	9.152	(3.846-14.458)		2827555	288.0	M
A 32 C10-C28	9.152	(3.846-14.458)		2827555	288.0	M
A 12 Unknown Hydrocarbons	9.152	(3.846-14.458)		2827555	NC	M
A 30 C13-C22	9.215	(6.536-11.895)		1165767	118.7	M
44 Heptadecane	9.227	9.233	-0.006	46297	NC	M
A 31 C12-C24	9.276	(5.738-12.814)		1582743	161.2	M
49 n-Octadecane	9.857	9.810	0.047	39938	NC	M
A 52 Mineral oil	9.898	(2.628-17.168)		5969432	534.8	
A 9 Crude Oil Range Organics (	9.898	(2.628-17.168)		5969432	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.898	(2.628-17.168)		7805522	NC	M
33 C19	10.367	10.365	0.002	67879	NC	M
A 64 C13-C28	10.497	(6.536-14.458)		2765495	281.7	M
A 17 C10-C36	10.507	(3.846-17.168)		7784078	792.8	M
A 13 C9-C40	10.647	(2.628-18.666)		7670683	961.0	
A 68 Crude Oil Range Organics (	10.647	(2.628-18.666)		7670683	NC	
A 58 C16-C24	10.710	(8.607-12.814)		1438841	146.5	M
61 icosane	10.940	10.897	0.043	57768	NC	M
A 6 C10-C40	11.256	(3.846-18.666)		7657669	959.5	
$ 34 p-Terphenyl	11.870	11.873	-0.003	124005	10.8	
35 n-Docosane		11.895			ND	
A 18 C12-C40	12.202	(5.738-18.666)		7608206	953.5	
36 Tricosane	12.363	12.363	0.000	90519	NC	M
A 66 C13-C40	12.601	(6.536-18.666)		7102744	890.8	
37 n-Tetracosane	12.817	12.814	0.003	96487	NC	M
A 2 C16-C36 ORO	12.887	(8.607-17.168)		4154587	582.4	
38 C25	13.243	13.248	-0.005	101147	NC	M
A 19 C16-C40	13.637	(8.607-18.666)		7411368	929.8	
46 n-Hexacosane	13.670	13.666	0.004	90379	NC	M
A 20 C19-C36	13.766	(10.365-17.168)		2941817	377.3	
A 55 C23-C32	14.129	(12.363-15.895)		2416683	588.4	
39 n-Octacosane	14.457	14.458	-0.001	81640	NC	M
65 C29	14.833	14.835	-0.002	117732	NC	M
A 40 C24-C36	14.991	(12.814-17.168)		3719783	651.7	M
A 7 Motor Oil	14.991	(12.814-17.168)		3571439	625.7	
A 50 C25-C36	15.208	(13.248-17.168)		3343250	621.3	
A 10 C22-C40	15.281	(11.895-18.666)		5393805	680.9	
A 41 C23-C40	15.515	(12.363-18.666)		5315021	687.5	
A 8 C24-C40	15.740	(12.814-18.666)		5101690	684.0	
56 Dotriacontane	15.893	15.895	-0.002	194056	NC	M
A 51 C28-C40	16.562	(14.458-18.666)		4088234	814.5	
A 63 C29-C40	16.751	(14.835-18.666)		3793598	850.0	
42 n-Hexatriacontane		17.168			ND	
43 C40		18.666			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

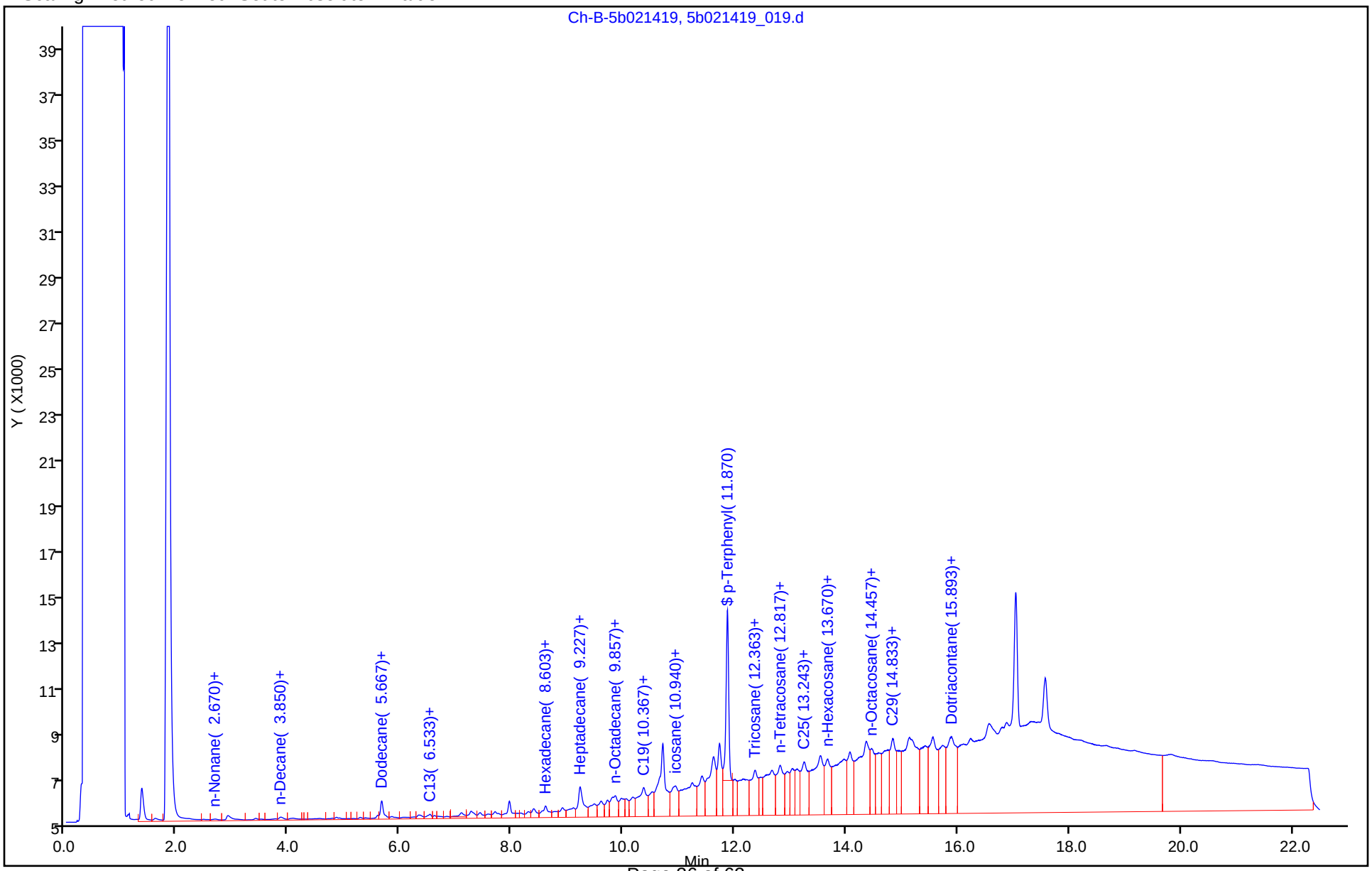
Report Date: 14-Feb-2019 17:49:39 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_019.d

Injection Date:	14-Feb-2019 17:21:16	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91134-E-5-C	Lab Sample ID:	720-91134-5	Worklist Smp#:	19
Client ID:	DG-AV9S-3.5-4				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_019.d				
Lims ID:	720-91134-E-5-C				
Client ID:	DG-AV9S-3.5-4				
Sample Type:	Client				
Inject. Date:	14-Feb-2019 17:21:16	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	#: 106 Name: 720-0056591-019				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	14-Feb-2019 17:49:38	Calib Date:	14-Feb-2019 09:16:17		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0316				

First Level Reviewer: luj Date: 14-Feb-2019 17:49:38

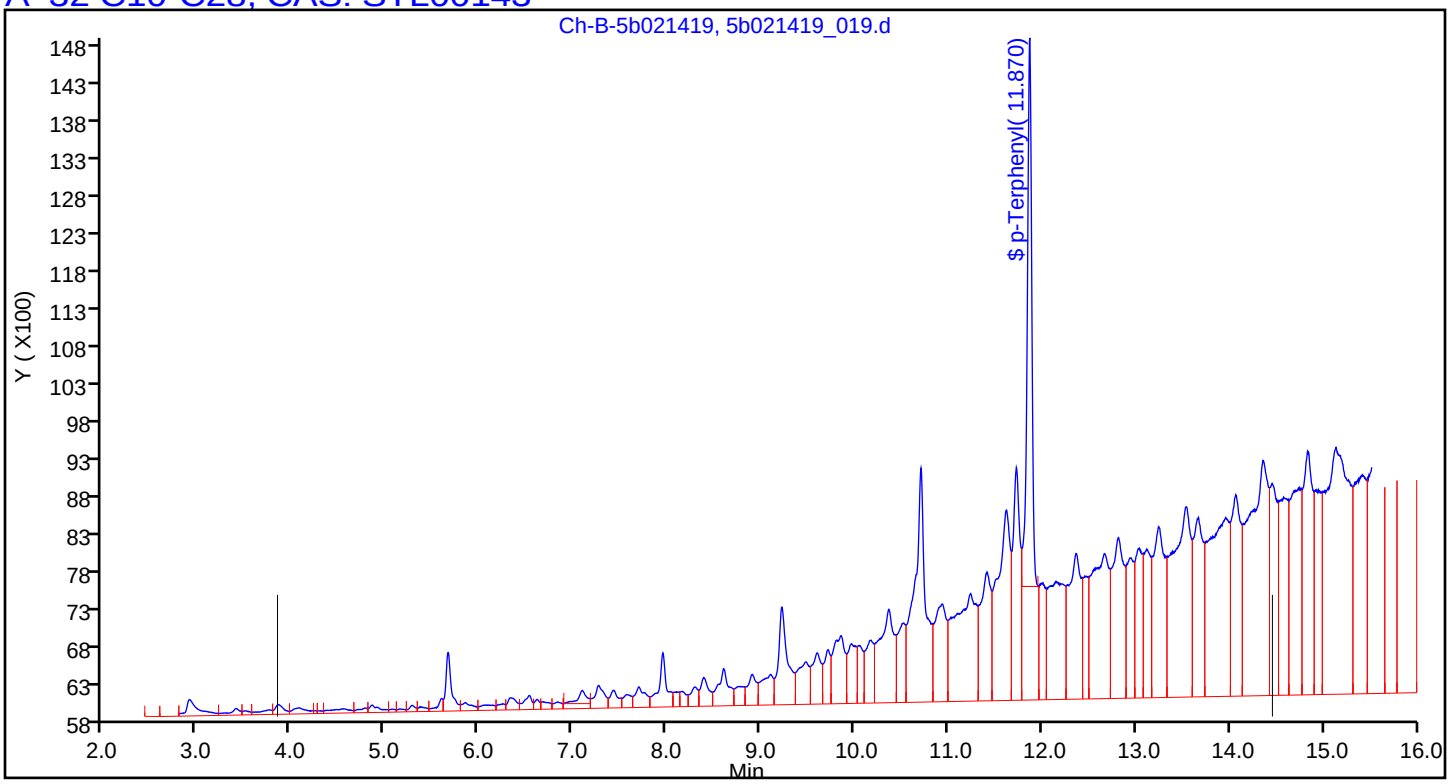
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	10.8	86.37

Report Date: 14-Feb-2019 17:49:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_019.d				
Injection Date:	14-Feb-2019 17:21:16	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-5-C	Lab Sample ID:	720-91134-5		
Client ID:	DG-AV9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

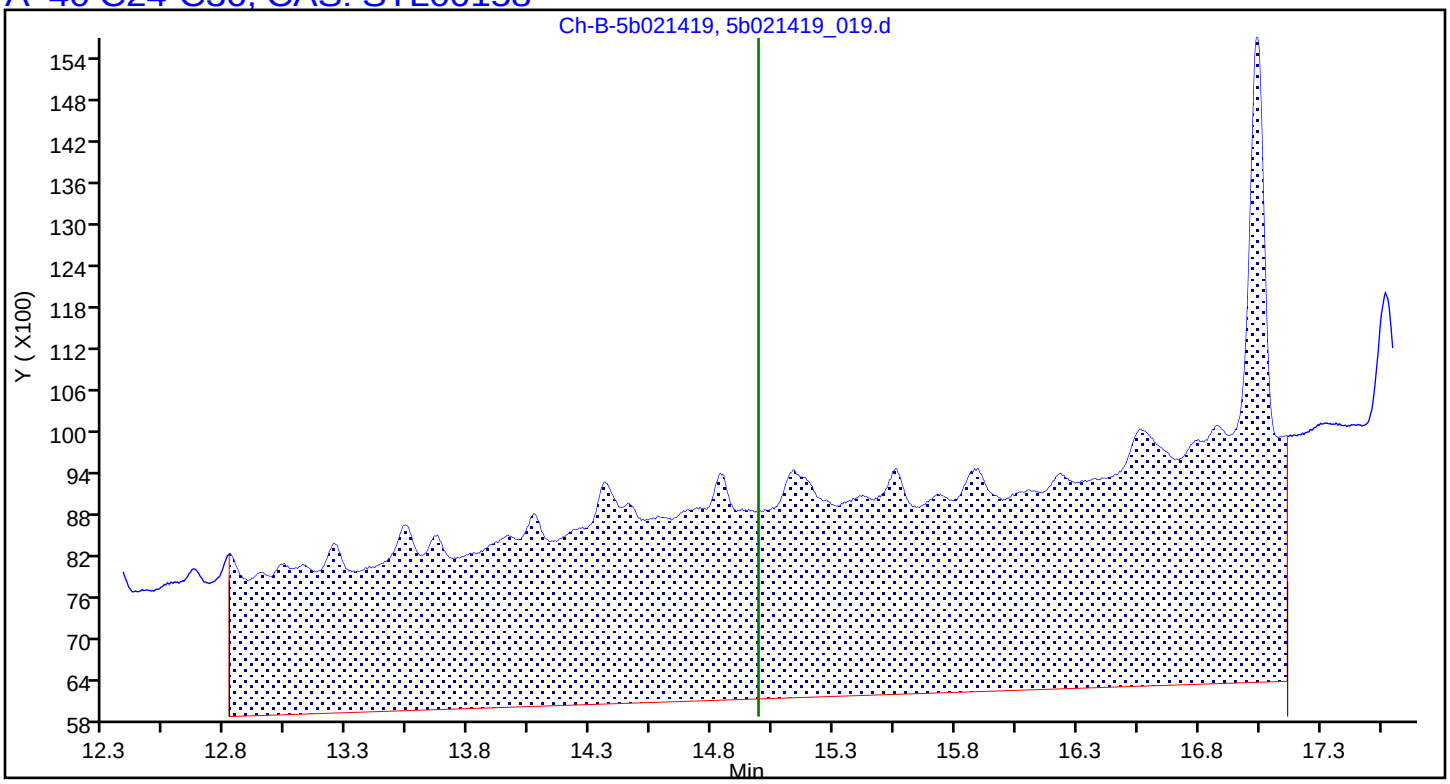


Report Date: 14-Feb-2019 17:49:41 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_019.d				
Injection Date:	14-Feb-2019 17:21:16	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-5-C	Lab Sample ID:	720-91134-5		
Client ID:	DG-AV9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

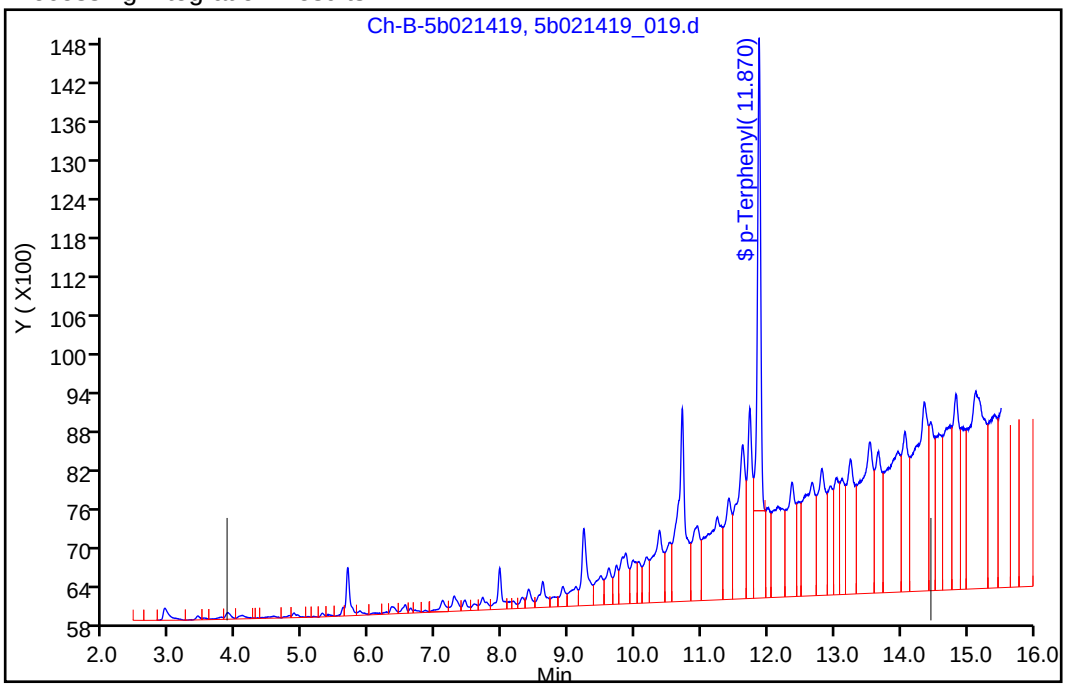
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_019.d				
Injection Date:	14-Feb-2019 17:21:16	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-5-C	Lab Sample ID:	720-91134-5		
Client ID:	DG-AV9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.152, CAS: STL00143

Signal: 1

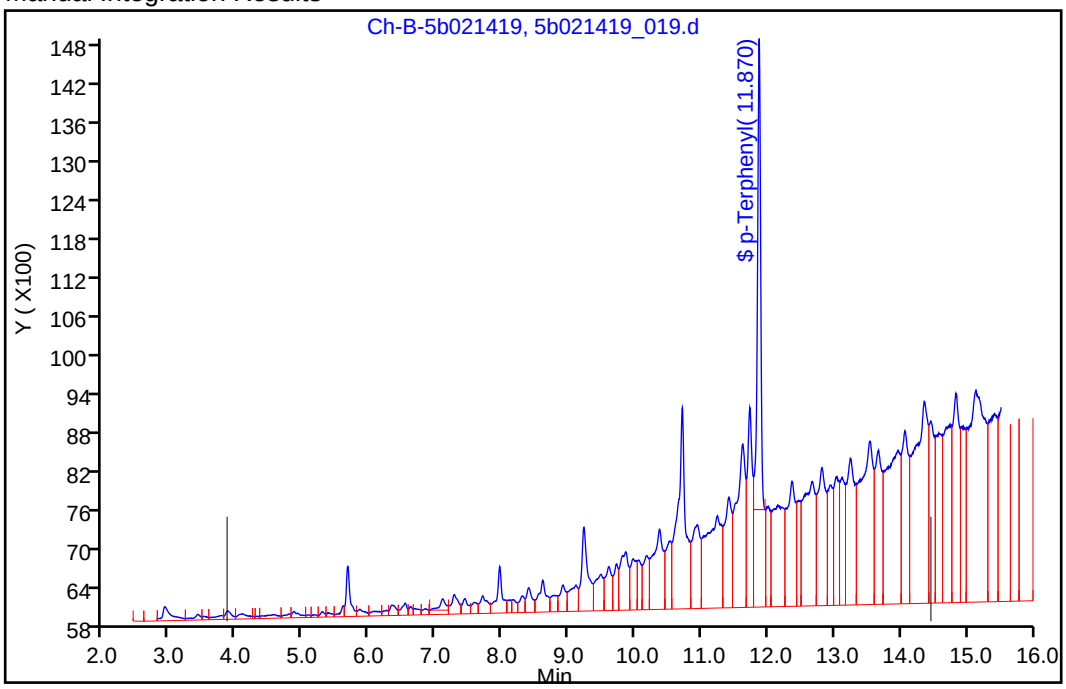
Processing Integration Results

RT: 9.15
Response: 2416209
Amount: 246.0945



Manual Integration Results

RT: 9.15
Response: 2827555
Amount: 287.9907



Reviewer: luj, 14-Feb-2019 17:49:19

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

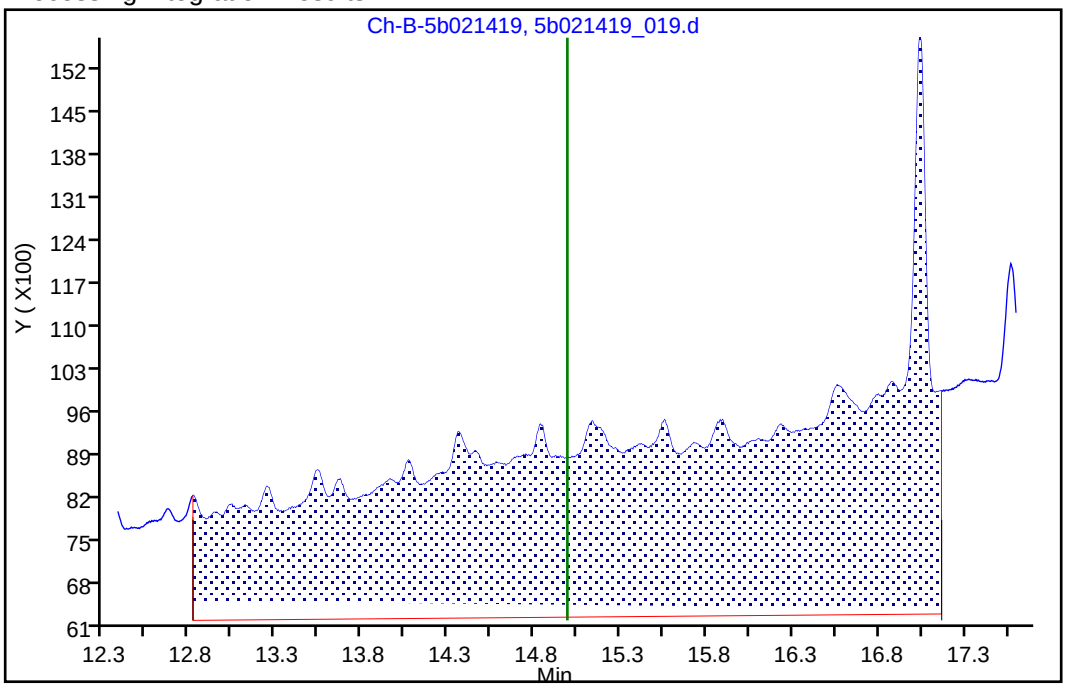
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_019.d				
Injection Date:	14-Feb-2019 17:21:16	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-5-C	Lab Sample ID:	720-91134-5		
Client ID:	DG-AV9S-3.5-4				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.991, CAS: STL00158

Signal: 1

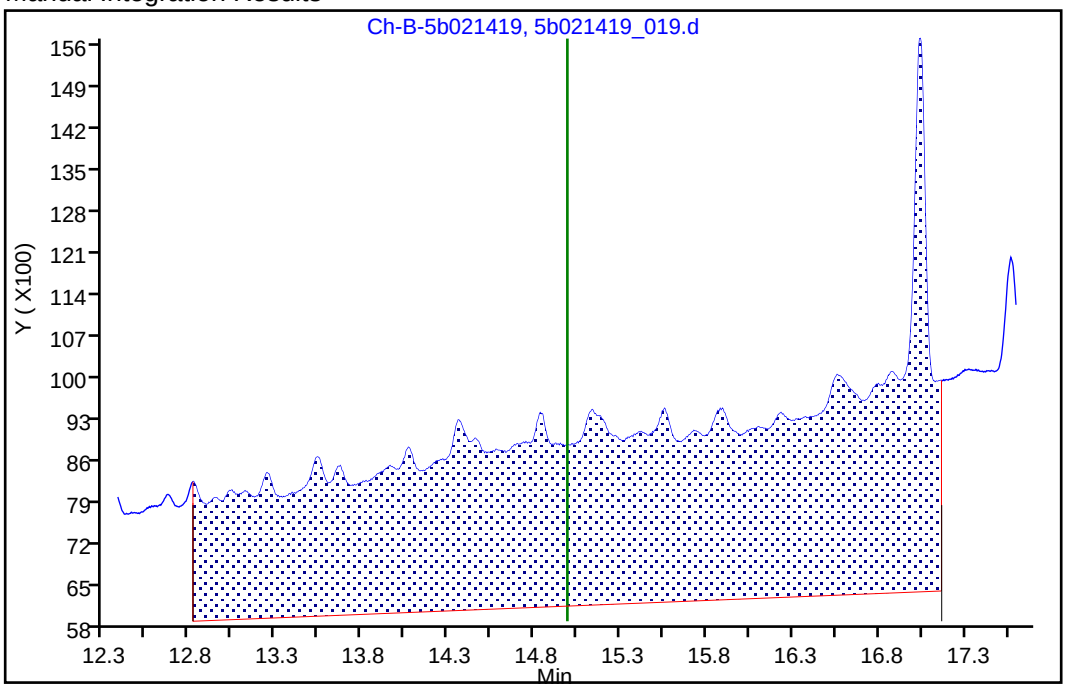
Processing Integration Results

RT: 14.99
Response: 3571439
Amount: 625.6654



Manual Integration Results

RT: 14.99
Response: 3719783
Amount: 651.6531



Reviewer: luj, 14-Feb-2019 17:49:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_022.d
Lims ID: 720-91134-E-6-B
Client ID: DG-AV9S-8.5-9
Sample Type: Client
Inject. Date: 14-Feb-2019 18:50:03 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: 130 Name: 720-0056591-022
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m
Limit Group: DRO
Last Update: 15-Feb-2019 12:05:55 Calib Date: 14-Feb-2019 09:16:17
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0311

First Level Reviewer: luj Date: 15-Feb-2019 12:05:55

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.677	2.628	0.049	5770	NC	M
23 n-Decane	3.843	3.846	-0.003	11012	NC	M
A 1 C9-C13	4.582	(2.628-6.536)		468884	39.5	M
A 21 Stoddard Solvent	4.582	(2.628-6.536)		468884	41.2	M
A 57 C10-C12	4.792	(3.846-5.738)		228195	23.2	M
24 Dodecane	5.730	5.738	-0.008	26570	NC	M
A 3 C9 - C17	5.930	(2.628-9.233)		1930007	140.5	M
A 47 C9 - C18	6.219	(2.628-9.810)		2534124	225.8	M
A 60 C10-C16	6.226	(3.846-8.607)		1479466	122.0	M
A 15 Kerosene	6.496	(2.628-10.365)		3081574	273.9	M
A 25 C9-C19	6.496	(2.628-10.365)		3081574	223.5	M
26 C13	6.487	6.536	-0.049	49798	NC	M
$ 27 n-Decanoic Acid (Surr)		7.154			ND	U
A 59 C12-C16	7.172	(5.738-8.607)		1277841	130.2	M
A 62 C10-C20	7.371	(3.846-10.897)		4084300	416.0	M
A 28 C9-C24	7.721	(2.628-12.814)		8060318	821.0	M
A 29 C9-C25	7.938	(2.628-13.248)		9012709	918.0	M
A 54 C10-C23	8.105	(3.846-12.363)		7018197	714.8	M
A 4 C10-C24	8.330	(3.846-12.814)		8001751	815.0	M
A 16 C10-C25	8.547	(3.846-13.248)		8954142	912.0	M
45 Hexadecane	8.607	8.607	0.000	79696	NC	M
A 14 C10-C26	8.756	(3.846-13.666)		9883537	1006.7	M
A 67 C12-C22	8.816	(5.738-11.895)		6204836	632.0	M
A 5 Diesel	9.152	(3.846-14.458)		11792973	1201.1	M
A 32 C10-C28	9.152	(3.846-14.458)		11792973	1201.1	M
A 12 Unknown Hydrocarbons	9.152	(3.846-14.458)		11792973	NC	M
A 30 C13-C22	9.215	(6.536-11.895)		6045942	615.8	M
44 Heptadecane	9.247	9.233	0.014	208486	NC	M
A 31 C12-C24	9.276	(5.738-12.814)		7800126	794.5	M
49 n-Octadecane	9.860	9.810	0.050	171399	NC	M
A 52 Mineral oil	9.898	(2.628-17.168)		18071014	1619.1	
A 9 Crude Oil Range Organics (	9.898	(2.628-17.168)		18071014	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.898	(2.628-17.168)		21320423	NC	M
33 C19	10.367	10.365	0.002	302736	NC	M
A 64 C13-C28	10.497	(6.536-14.458)		11432454	1164.4	M
A 17 C10-C36	10.559	(3.950-17.168)		21250844	2164.4	M
A 13 C9-C40	10.647	(2.628-18.666)		19911327	2565.1	
A 68 Crude Oil Range Organics (	10.647	(2.628-18.666)		19911327	NC	
A 58 C16-C24	10.710	(8.607-12.814)		6601981	672.4	M
61 icosane	10.950	10.897	0.053	284872	NC	M
A 6 C10-C40	11.256	(3.846-18.666)		19868953	2559.7	
$ 34 p-Terphenyl	11.873	11.873	0.000	185919	16.2	
35 n-Docosane		11.895			ND	
A 18 C12-C40	12.202	(5.738-18.666)		19659327	2532.7	
36 Tricosane	12.367	12.363	0.004	442490	NC	M
A 66 C13-C40	12.601	(6.536-18.666)		17853428	2302.1	
37 n-Tetracosane	12.817	12.814	0.003	515332	NC	M
A 2 C16-C36 ORO	12.887	(8.607-17.168)		9804042	1374.3	
38 C25	13.250	13.248	0.002	382734	NC	M
A 19 C16-C40	13.637	(8.607-18.666)		18412386	2373.4	
46 n-Hexacosane	13.670	13.666	0.004	317804	NC	M
A 20 C19-C36	13.766	(10.365-17.168)		12199690	1564.5	
A 55 C23-C32	14.129	(12.363-15.895)		7107166	1730.3	
39 n-Octacosane	14.463	14.458	0.005	548839	NC	M
65 C29	14.843	14.835	0.008	755197	NC	M
A 40 C24-C36	14.991	(12.814-17.168)		9287806	1627.1	M
A 7 Motor Oil	14.991	(12.814-17.168)		8144835	1426.9	
A 50 C25-C36	15.208	(13.248-17.168)		7345817	1365.0	
A 10 C22-C40	15.281	(11.895-18.666)		10869139	1372.0	
A 41 C23-C40	15.515	(12.363-18.666)		10254764	1326.4	
A 8 C24-C40	15.740	(12.814-18.666)		9445148	1266.3	
56 Dotriacontane	15.907	15.895	0.012	457615	NC	M
A 51 C28-C40	16.562	(14.458-18.666)		6204759	1255.3	
A 63 C29-C40	16.751	(14.835-18.666)		5349016	1215.7	
42 n-Hexatriacontane		17.168			ND	
43 C40		18.666			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

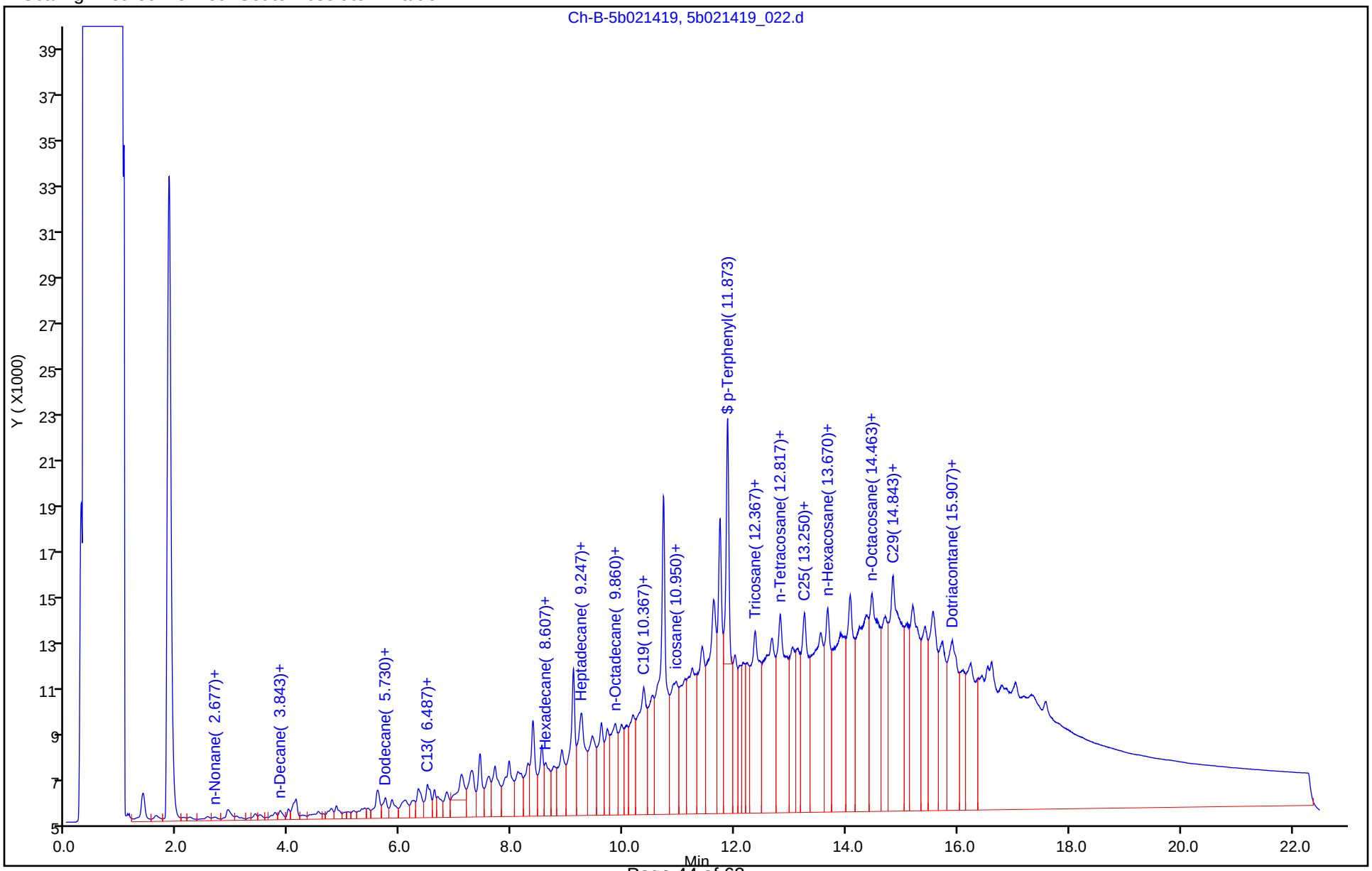
Report Date: 15-Feb-2019 12:05:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_022.d

Injection Date:	14-Feb-2019 18:50:03	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91134-E-6-B	Lab Sample ID:	720-91134-6	Worklist Smp#:	22
Client ID:	DG-AV9S-8.5-9				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_022.d				
Lims ID:	720-91134-E-6-B				
Client ID:	DG-AV9S-8.5-9				
Sample Type:	Client				
Inject. Date:	14-Feb-2019 18:50:03	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: 130 Name: 720-0056591-022				
Operator ID:	manager	Instrument ID:	CHDRO5		
Method:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m				
Limit Group:	DRO				
Last Update:	15-Feb-2019 12:05:55	Calib Date:	14-Feb-2019 09:16:17		
Integrator:	Genie				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d				
Column 1 :			Det: GC FID1A		
Process Host:	CTX0311				

First Level Reviewer: luj Date: 15-Feb-2019 12:05:55

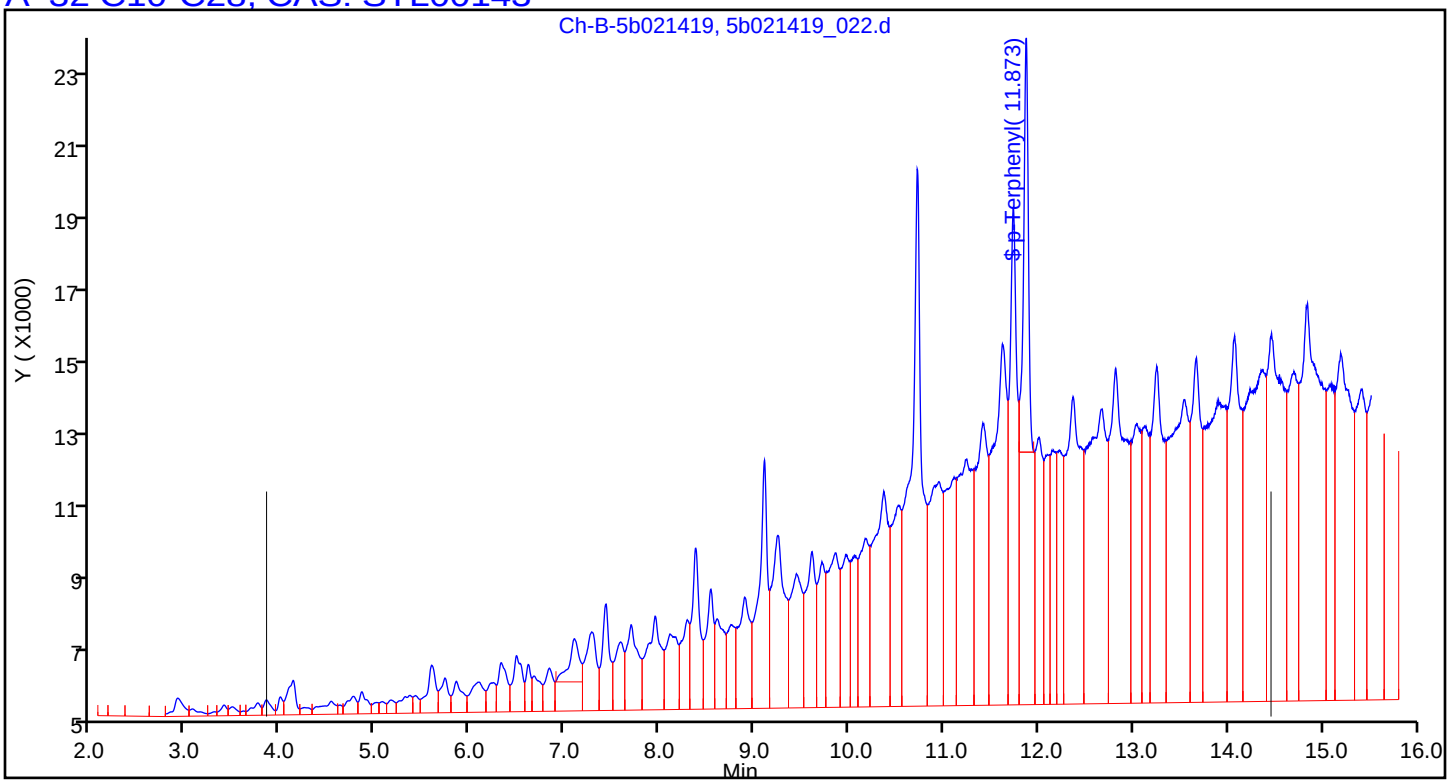
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	16.2	64.75

Report Date: 15-Feb-2019 12:05:57 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_022.d				
Injection Date:	14-Feb-2019 18:50:03	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-6-B	Lab Sample ID:	720-91134-6		
Client ID:	DG-AV9S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

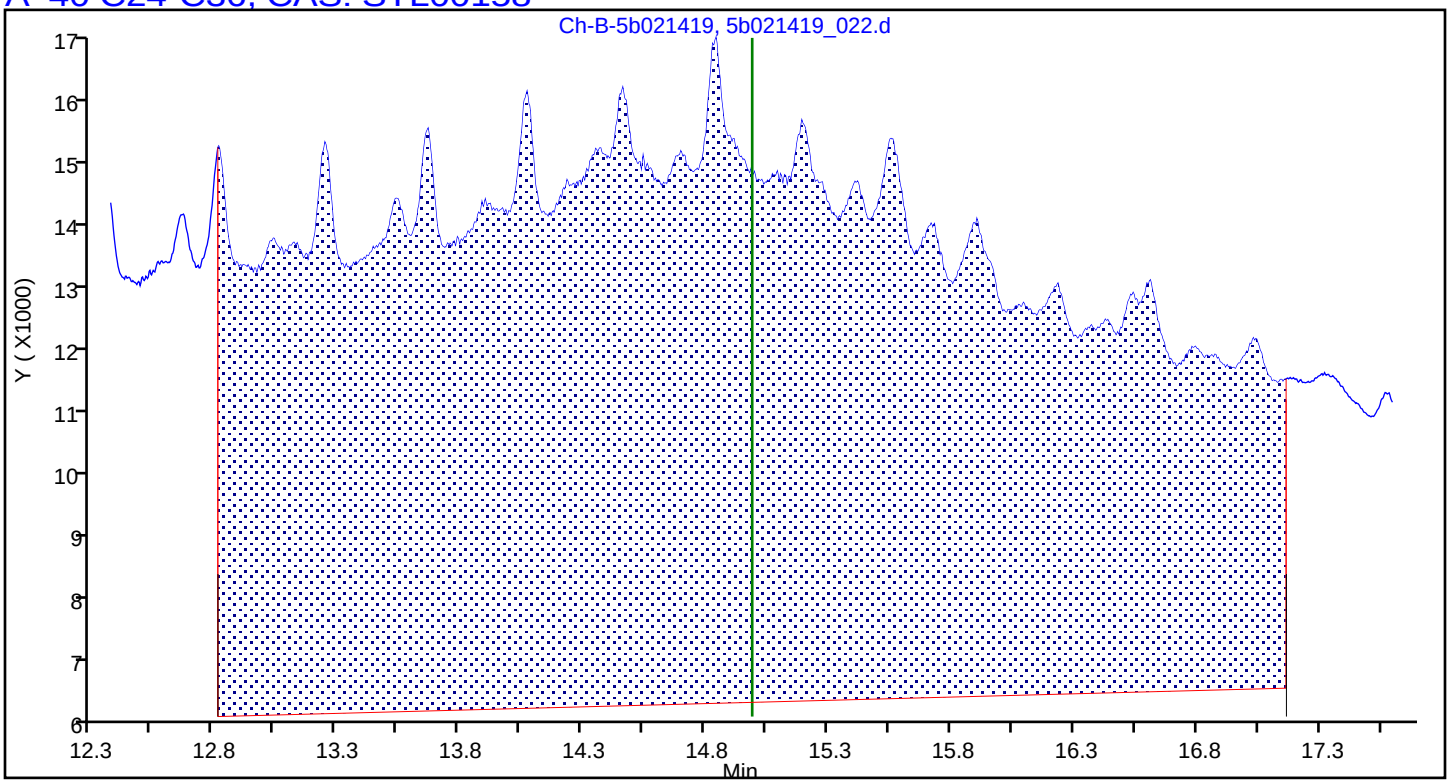


Report Date: 15-Feb-2019 12:05:59 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

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Injection Date:	14-Feb-2019 18:50:03	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-6-B	Lab Sample ID:	720-91134-6		
Client ID:	DG-AV9S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

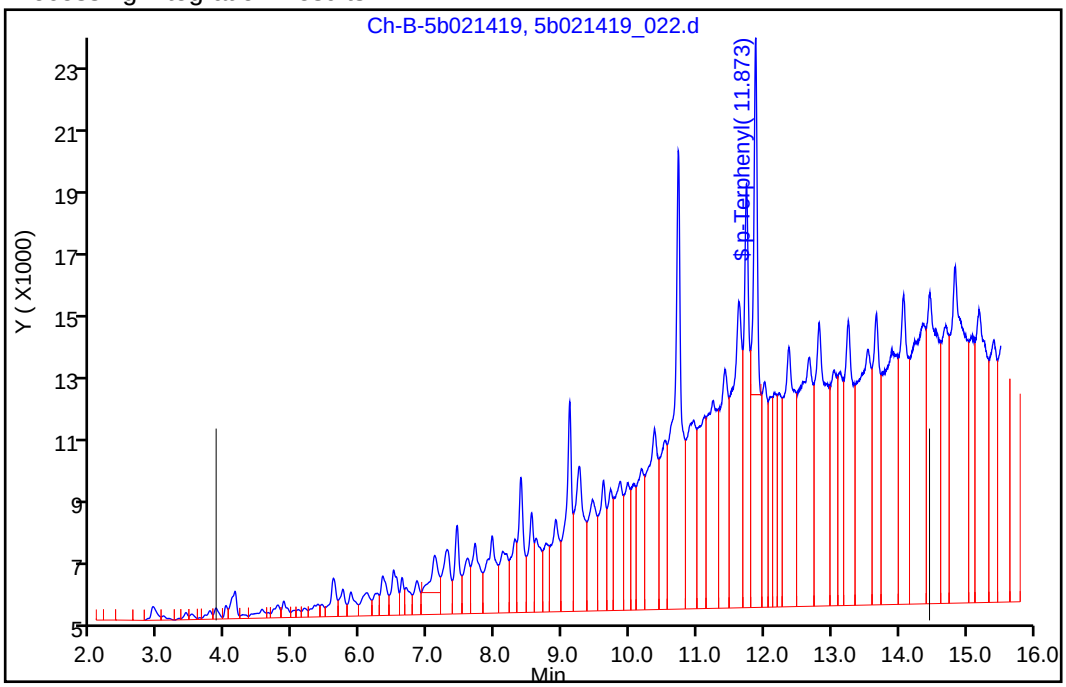
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Injection Date:	14-Feb-2019 18:50:03	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-6-B	Lab Sample ID:	720-91134-6		
Client ID:	DG-AV9S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.152, CAS: STL00143

Signal: 1

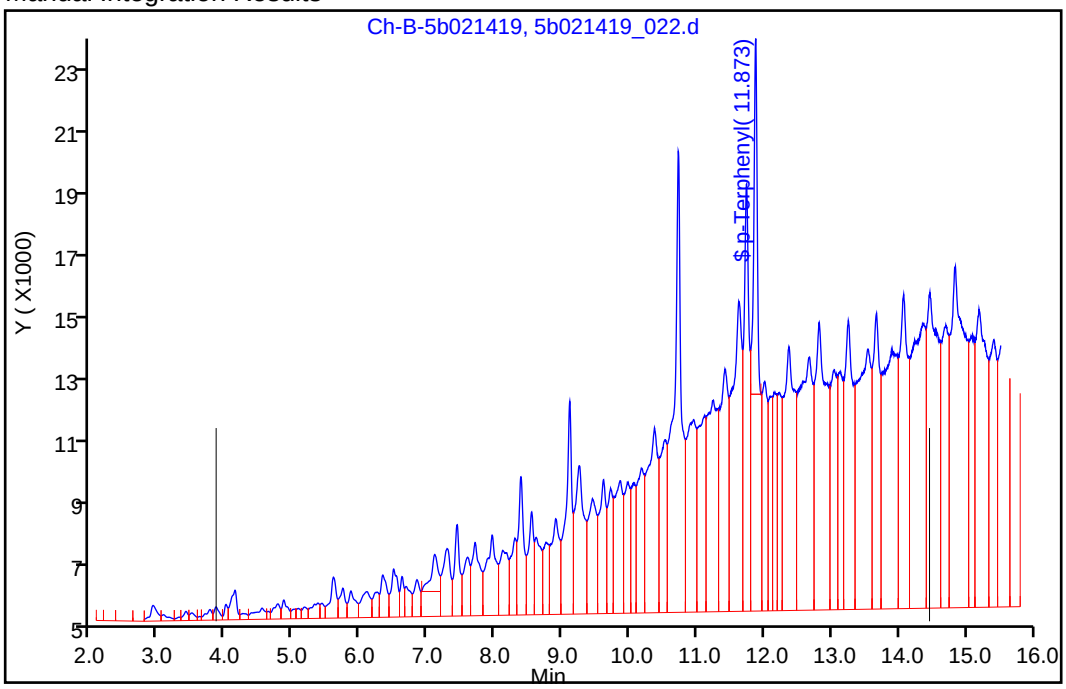
Processing Integration Results

RT: 9.15
Response: 11165421
Amount: 1137.2149



Manual Integration Results

RT: 9.15
Response: 11792973
Amount: 1201.1320



Reviewer: luj, 15-Feb-2019 12:05:47

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

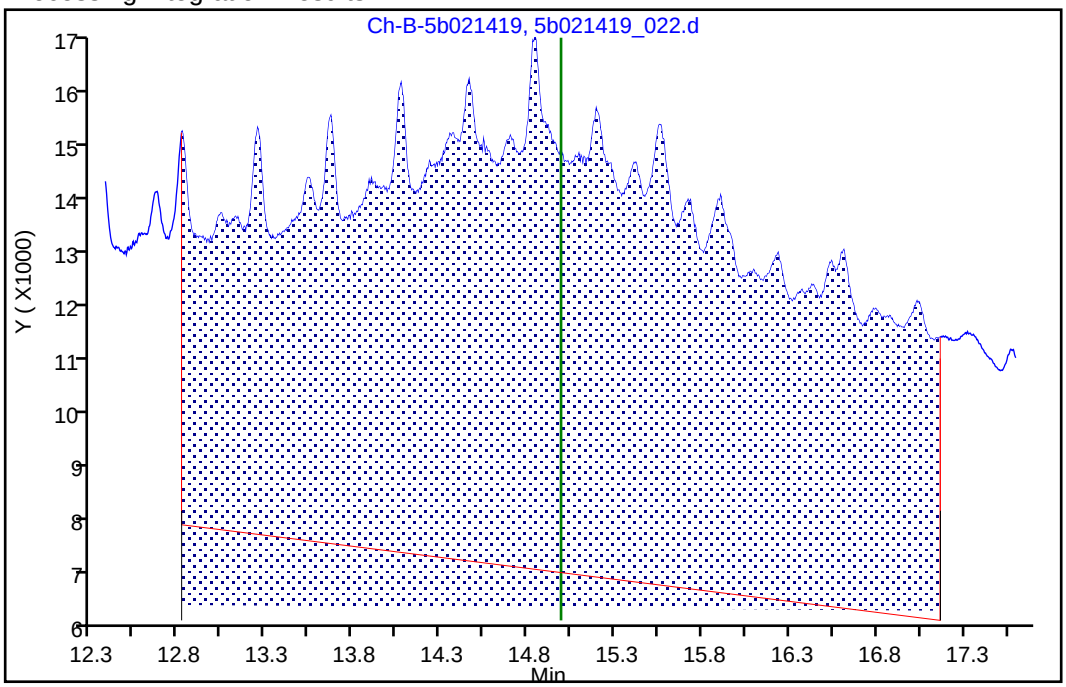
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_022.d				
Injection Date:	14-Feb-2019 18:50:03	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-6-B	Lab Sample ID:	720-91134-6		
Client ID:	DG-AV9S-8.5-9				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.991, CAS: STL00158

Signal: 1

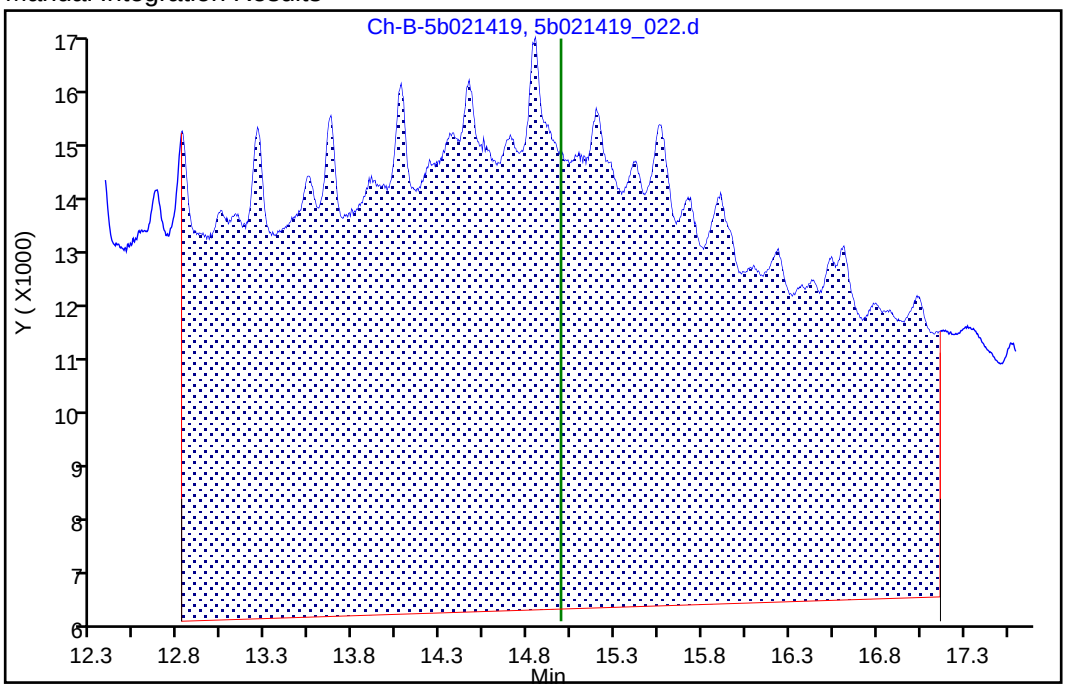
Processing Integration Results

RT: 14.99
Response: 8144835
Amount: 1426.8594



Manual Integration Results

RT: 14.99
Response: 9287806
Amount: 1627.0916



Reviewer: luj, 15-Feb-2019 12:05:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_028.d
Lims ID: 720-91134-E-12-B
Client ID: DUP-93
Sample Type: Client
Inject. Date: 14-Feb-2019 21:48:04 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 100.0000
Sample Info: #: 107 Name: 720-0056591-028
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m
Limit Group: DRO
Last Update: 15-Feb-2019 12:10:51 Calib Date: 14-Feb-2019 09:16:17
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0311

First Level Reviewer: luj Date: 15-Feb-2019 12:10:51

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane	2.639	2.628	0.011	290	NC	
23 n-Decane	3.873	3.846	0.027	491	NC	M
A 1 C9-C13	4.582	(2.628-6.536)		146752	12.4	M
A 21 Stoddard Solvent	4.582	(2.628-6.536)		146752	12.9	M
A 57 C10-C12	4.792	(3.846-5.738)		50011	5.09	M
24 Dodecane	5.700	5.738	-0.038	10729	NC	M
A 3 C9 - C17	5.930	(2.628-9.233)		902057	65.7	M
A 47 C9 - C18	6.219	(2.628-9.810)		1235520	110.1	M
A 60 C10-C16	6.226	(3.846-8.607)		685283	56.5	M
A 15 Kerosene	6.496	(2.628-10.365)		1527915	135.8	M
A 25 C9-C19	6.496	(2.628-10.365)		1527915	110.8	M
26 C13	6.493	6.536	-0.043	25834	NC	M
$ 27 n-Decanoic Acid (Surr)		7.154			ND	U
A 59 C12-C16	7.172	(5.738-8.607)		646001	65.8	M
A 62 C10-C20	7.371	(3.846-10.897)		1944594	198.1	M
A 28 C9-C24	7.721	(2.628-12.814)		3332654	339.4	M
A 29 C9-C25	7.938	(2.628-13.248)		3820126	389.1	M
A 54 C10-C23	8.105	(3.846-12.363)		3010357	306.6	M
A 4 C10-C24	8.330	(3.846-12.814)		3330508	339.2	M
A 16 C10-C25	8.547	(3.846-13.248)		3817980	388.9	M
45 Hexadecane	8.630	8.607	0.023	54050	NC	M
A 14 C10-C26	8.756	(3.846-13.666)		4100137	417.6	M
A 67 C12-C22	8.816	(5.738-11.895)		2642369	269.1	M
A 5 Diesel	9.152	(3.846-14.458)		4708391	479.6	M
A 32 C10-C28	9.152	(3.846-14.458)		4708391	479.6	M
A 12 Unknown Hydrocarbons	9.152	(3.846-14.458)		4708391	NC	M
A 30 C13-C22	9.215	(6.536-11.895)		2562879	261.0	M
44 Heptadecane	9.260	9.233	0.027	108736	NC	M
A 31 C12-C24	9.276	(5.738-12.814)		3291226	335.2	M
49 n-Octadecane	9.860	9.810	0.050	97536	NC	M
A 52 Mineral oil	9.898	(2.628-17.168)		7584590	679.6	
A 9 Crude Oil Range Organics (	9.529	(2.628-16.430)		6959100	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.898	(2.628-17.168)		6225827	NC	M
33 C19	10.373	10.365	0.008	123241	NC	M
A 64 C13-C28	10.497	(6.536-14.458)		4589619	467.5	M
A 17 C10-C36	10.138	(3.846-16.430)		6223681	633.9	M
A 13 C9-C40	10.647	(2.628-18.666)		8801026	1109.1	
A 68 Crude Oil Range Organics (	10.647	(2.628-18.666)		8801026	NC	
A 58 C16-C24	10.710	(8.607-12.814)		2645225	269.4	M
61 icosane	10.877	10.897	-0.020	47640	NC	M
A 6 C10-C40	11.256	(3.846-18.666)		8794434	1108.5	
$ 34 p-Terphenyl		11.873			ND	U
35 n-Docosane	11.990	11.895	0.095	125877	NC	M
A 18 C12-C40	12.202	(5.738-18.666)		8713630	1098.4	
36 Tricosane	12.403	12.363	0.040	139545	NC	M
A 66 C13-C40	12.601	(6.536-18.666)		6927034	867.7	
37 n-Tetracosane	12.823	12.814	0.009	118812	NC	M
A 2 C16-C36 ORO	12.887	(8.607-17.168)		3856545	540.6	
38 C25	13.240	13.248	-0.008	110972	NC	M
A 19 C16-C40	13.637	(8.607-18.666)		7959253	1001.7	
46 n-Hexacosane	13.657	13.666	-0.009	103945	NC	M
A 20 C19-C36	13.766	(10.365-17.168)		3788268	485.8	
A 55 C23-C32	14.129	(12.363-15.895)		2226238	542.0	
39 n-Octacosane	14.403	14.458	-0.055	75677	NC	M
65 C29	14.833	14.835	-0.002	93347	NC	M
A 40 C24-C36	14.991	(12.814-17.168)		3309987	579.9	M
A 7 Motor Oil	14.991	(12.814-17.168)		2681320	469.7	
A 50 C25-C36	15.208	(13.248-17.168)		2420095	449.7	
A 10 C22-C40	15.281	(11.895-18.666)		4077890	514.8	
A 41 C23-C40	15.515	(12.363-18.666)		3790876	490.3	
A 8 C24-C40	15.740	(12.814-18.666)		3519306	471.8	
56 Dotriacontane		15.895			ND	
A 51 C28-C40	16.562	(14.458-18.666)		2494547	482.5	
A 63 C29-C40	16.751	(14.835-18.666)		2231492	482.7	
42 n-Hexatriacontane		17.168			ND	
43 C40		18.666			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

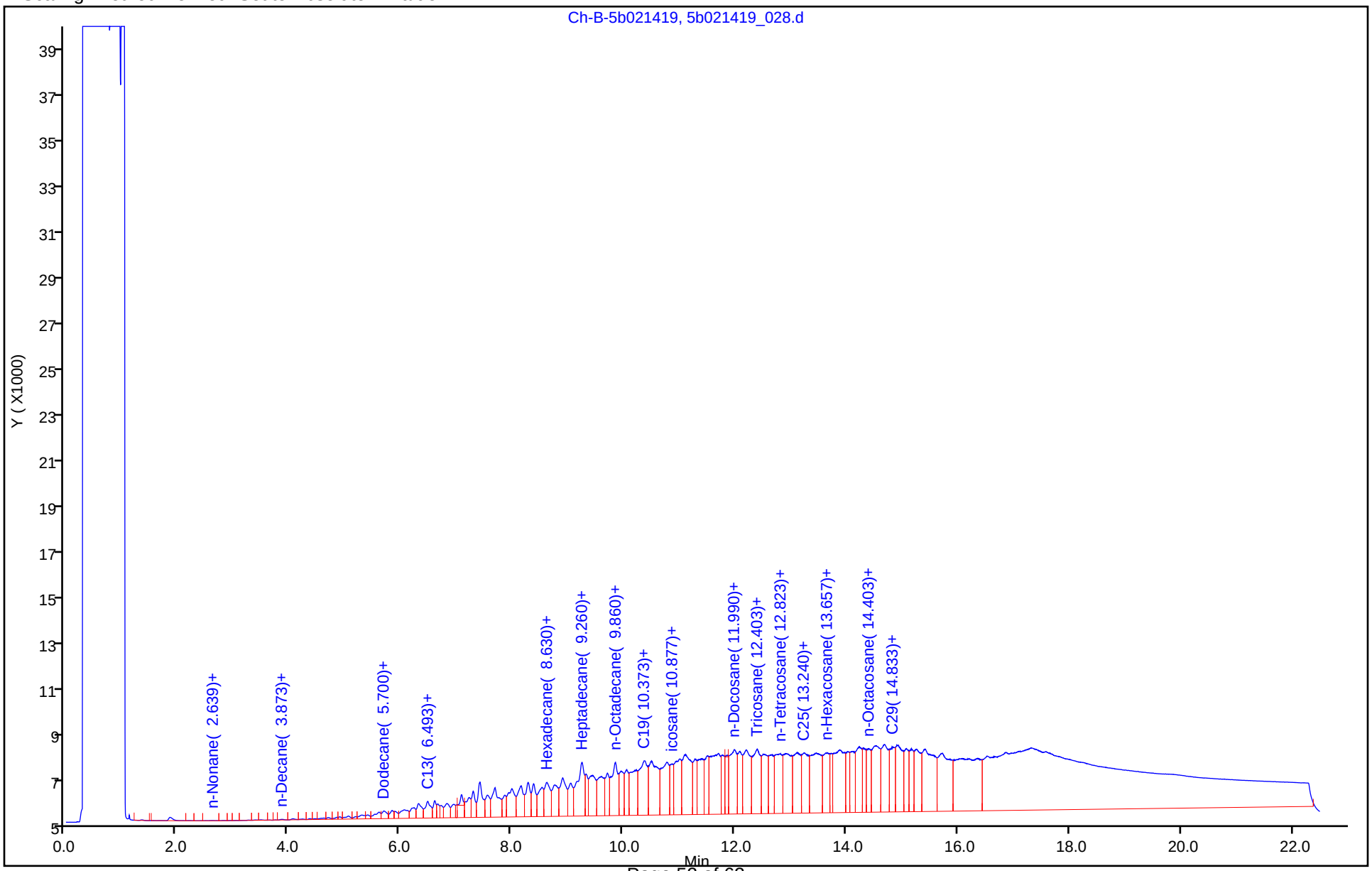
U - Marked Undetected

Report Date: 15-Feb-2019 12:10:52 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_028.d				
Injection Date:	14-Feb-2019 21:48:04	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91134-E-12-B	Lab Sample ID:	720-91134-12	Worklist Smp#:	28
Client ID:	DUP-93				
Injection Vol:	1.0 ul	Dil. Factor:	100.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

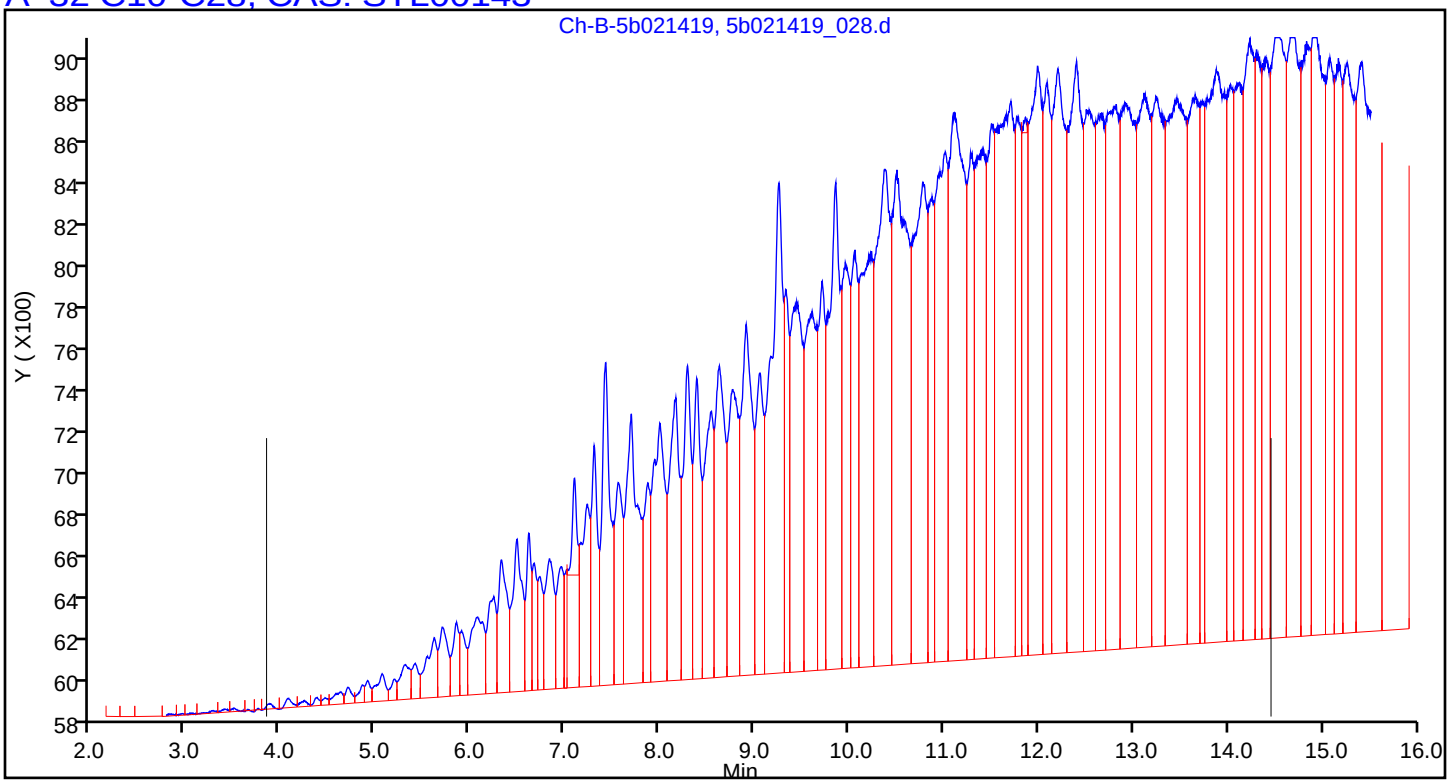


Report Date: 15-Feb-2019 12:10:54 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_028.d				
Injection Date:	14-Feb-2019 21:48:04	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-12-B	Lab Sample ID:	720-91134-12		
Client ID:	DUP-93				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

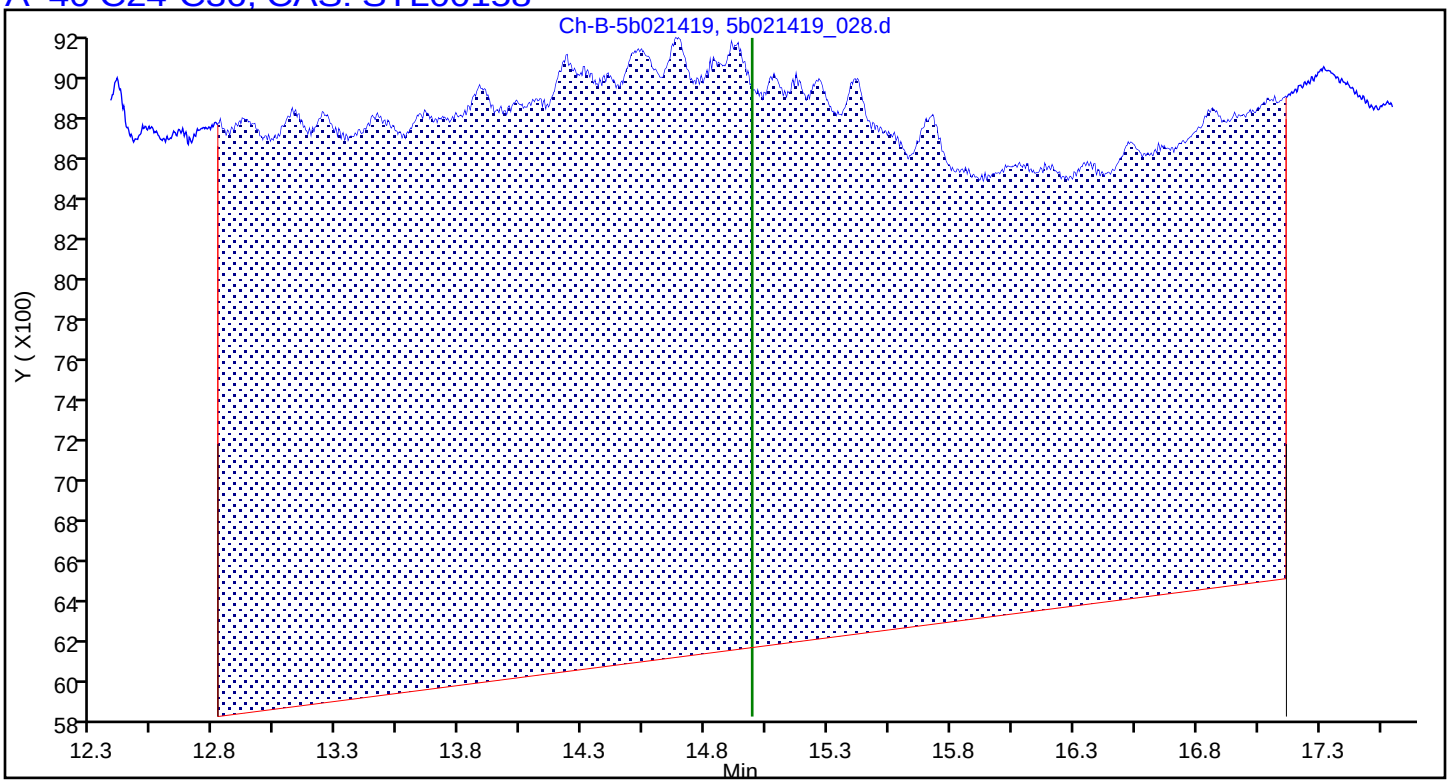


Report Date: 15-Feb-2019 12:10:55 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_028.d				
Injection Date:	14-Feb-2019 21:48:04	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-12-B	Lab Sample ID:	720-91134-12		
Client ID:	DUP-93				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

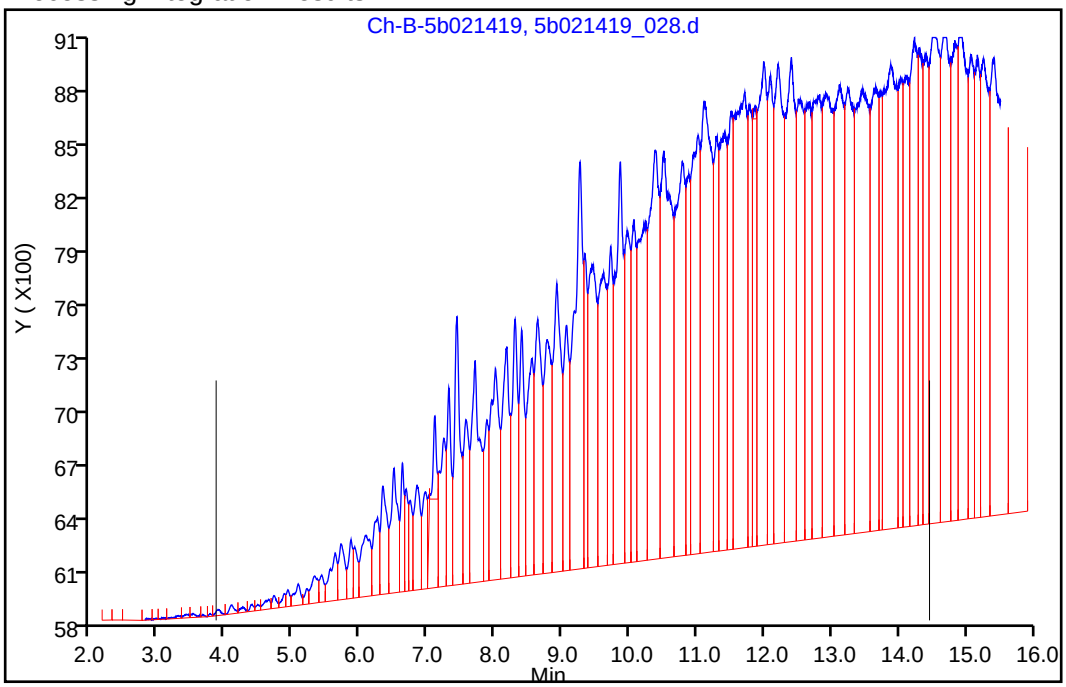
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Injection Date:	14-Feb-2019 21:48:04	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-12-B	Lab Sample ID:	720-91134-12		
Client ID:	DUP-93				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.152, CAS: STL00143

Signal: 1

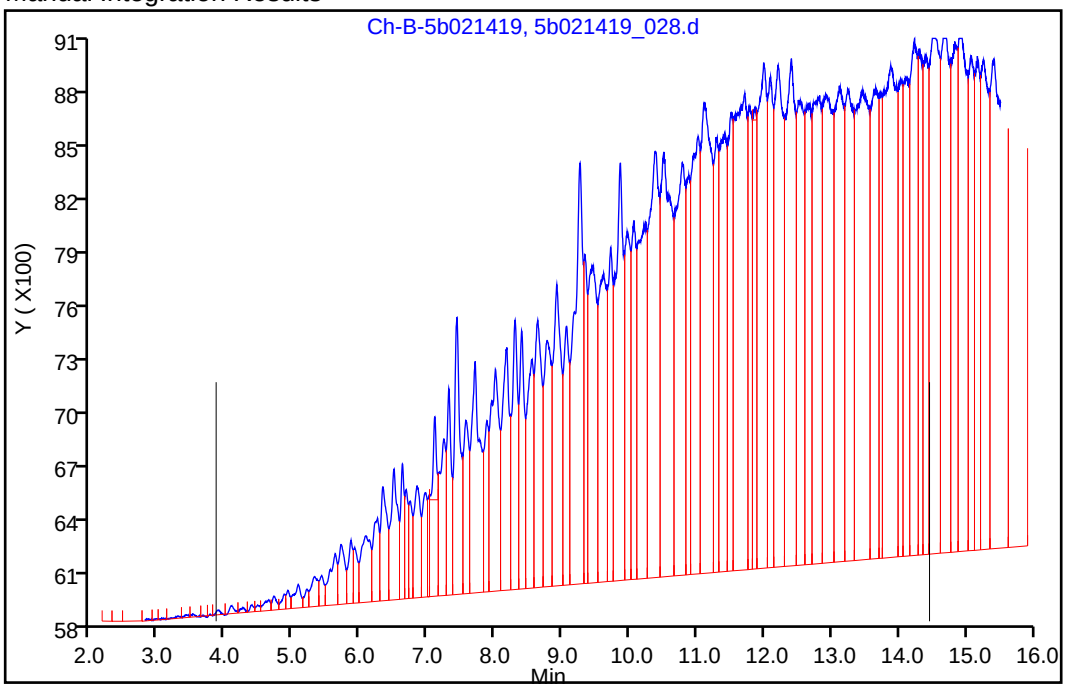
Processing Integration Results

RT: 9.15
Response: 4347808
Amount: 442.8308



Manual Integration Results

RT: 9.15
Response: 4708391
Amount: 479.5567



Reviewer: luj, 15-Feb-2019 12:10:33

Audit Action: Assigned New Baseline Audit Reason: Wrong Peak

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

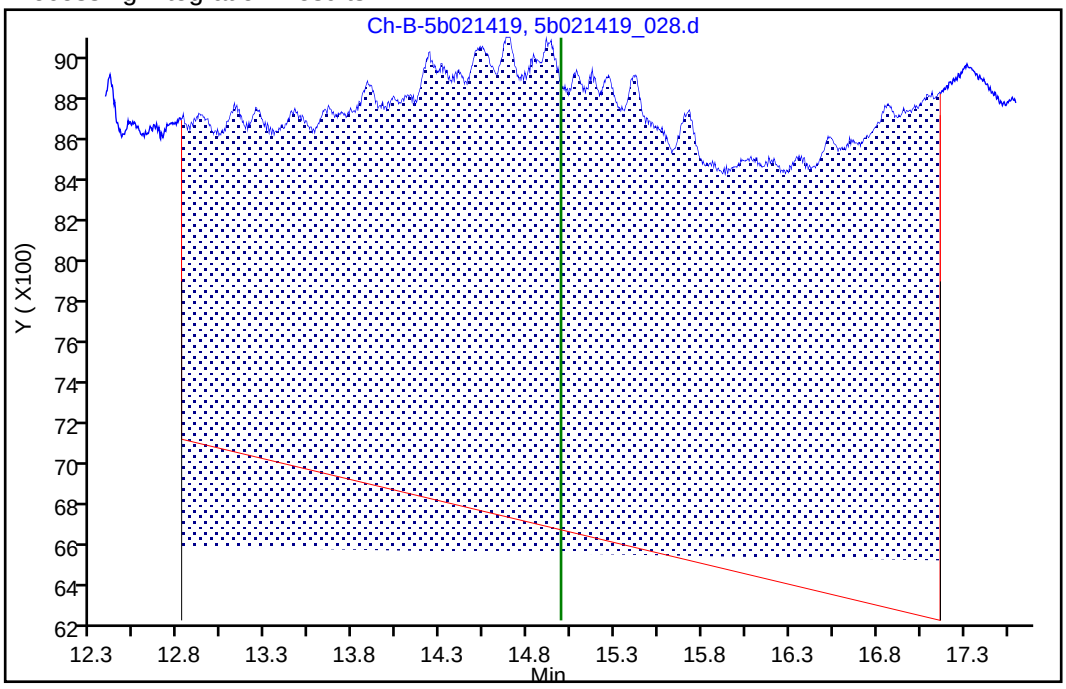
Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_028.d				
Injection Date:	14-Feb-2019 21:48:04	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-12-B	Lab Sample ID:	720-91134-12		
Client ID:	DUP-93				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.991, CAS: STL00158

Signal: 1

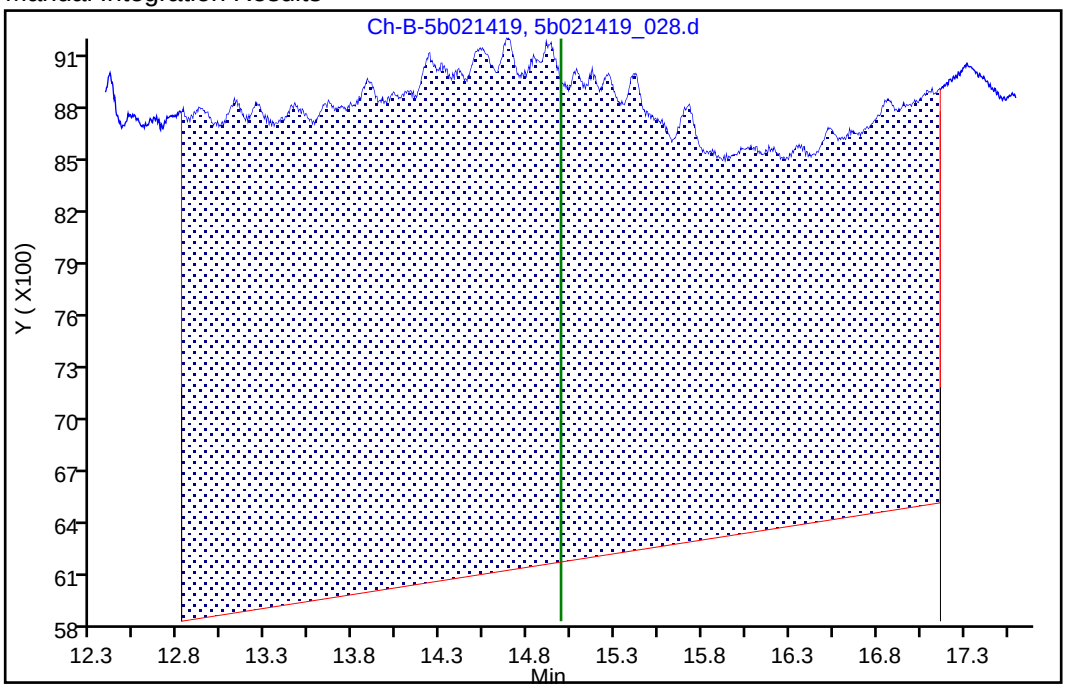
Processing Integration Results

RT: 14.99
Response: 2681320
Amount: 469.7292



Manual Integration Results

RT: 14.99
Response: 3309987
Amount: 579.8627



Reviewer: luj, 15-Feb-2019 12:10:47

Audit Action: Manually Integrated Audit Reason: Wrong Peak

User Disabled Compound Report

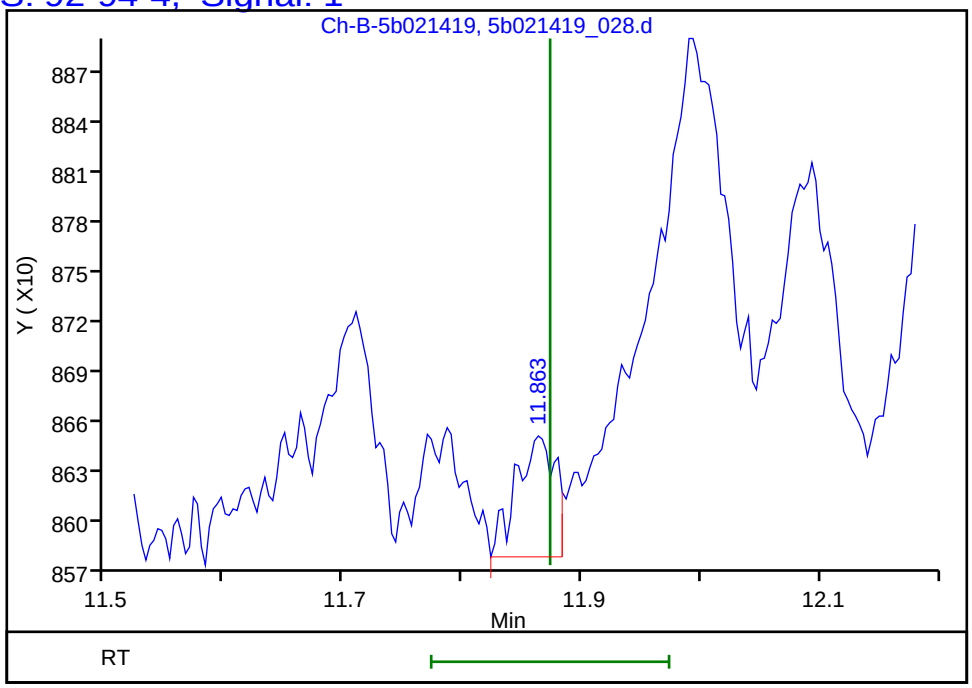
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_028.d

Injection Date:	14-Feb-2019 21:48:04	Instrument ID:	CHDRO5		
Lims ID:	720-91134-E-12-B	Lab Sample ID:	720-91134-12		
Client ID:	DUP-93				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	100.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.86
Response: 844
Amount: 0.073484



Reviewer: luj, 15-Feb-2019 12:10:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600 3002

720-91134

Chain of Custody Record

188224

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Naomi Hemphell
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling:
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91134 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
1 DG-AD13S-0.5-1	1 February 2019	1015	G	S	7	N		X	X	X	X	X	X	X	
2 DG-AD13S-3.5-4		1015													
3 DG-AD13S-7.5-8		1015													
4 DG-AV9S-0.5-1		1200													
5 DG-AV9S-3.5-4		1200													
6 DG-AV9S-8.5-9		1200													
7 DG-AV13S-7.5-8		0850			4			X							
8 DG-AV5S-0.5-1		1240						X							
9 DG-AV5S-3.5-4		1240						X							
10 DG-AV5S-7.5-8		1240						X							
11 DUP-35		—						X							
12 DUP-93		—	G	S	7	N		X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd ____ Corr'd ____ Therm ID No. ____			
Relinquished by	Company Geosyntec	Date/Time 1 Feb. 2019	Received by	Company TA-PLS	Date/Time 2/1/19 1420
Relinquished by	Company TA-PLS	Date/Time 2/1/19 1642	Received by	Company TA-PLS	Date/Time 2/1/19 1642
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

3 2 —

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91134

Chain of Custody Record

188224

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 1 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	**Analysis Turnaround Time**			Sampler Naomi Hernandez
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			Job / SDG No
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
~~DG-APS5-3.5-4~~ (NAF)			G	S	1	N		X	X	X	X	X	X	X	
13 DG-APS5-3,5-4	1 Feb 2019	1310	G	S	4			X							
14 DG-ANS5-0.5-1		1330						X							
15 DG-ANS5-3.5-4		1330						X							
16 TB-02.01.19		—			2			X							
17 FB-02.01.19		—			2			X							

Page 2 of 2

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No. (424)	Cooler Temp. (°C) Obs'd _____ Corr'd. _____ Therm ID No _____		
Relinquished by	Company Geosyntec	Date/Time 1 Feb 2019	Received by	Company TA-PLS	Date/Time 2/1/19 1420
Relinquished by	Company TA-PLS	Date/Time 2/1/19 1642	Received by	Company TA-PLS	Date/Time 2/1/19 1642
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

3.2C

720-9134
GEOSYNTEC FRI.
TERRA COMES

FedEx

Address:	900 GATEWAY BOULEVARD SOUTH SAN FRANCISCO CA 94080
Location:	SQLA
Device ID:	-BTC04

FedEx Express Package(s) - Dropped Off
478645743414

Total Pieces: 1

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1.800.463.3339

Feb 01, 2019 2:49:42 PM

720-91134-02 Chain of Custody

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41036.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91134-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/13/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LL/5035A_F_FW_T 8260-(MOD) VOCs + GRO	8260B/CA_LUFTMS/5035A_F_FW_T 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of Containers	Special Instructions/Note:
			Preservation Code:										
DG-AD13S-0.5-1 (720-91134-1)	2/1/19	10:15 Pacific		Solid			X	X	X				
DG-AD13S-3.5-4 (720-91134-2)	2/1/19	10:15 Pacific		Solid			X	X	X				
DG-AD13S-7.5-8 (720-91134-3)	2/1/19	10:15 Pacific		Solid			X	X	X				
DG-AV9S-0.5-1 (720-91134-4)	2/1/19	12:00 Pacific		Solid			X	X	X				
DG-AV9S-3.5-4 (720-91134-5)	2/1/19	12:00 Pacific		Solid			X	X	X				
DG-AV9S-8.5-9 (720-91134-6)	2/1/19	12:00 Pacific		Solid			X	X	X				
~~DG-U13S-7.5-8 (720-91134-7)~~	~~2/1/19~~	~~08:50 Pacific~~		~~Solid~~				X	X				
~~DG-AV5S-0.5-1 (720-91134-8)~~	~~2/1/19~~	~~12:40 Pacific~~		~~Solid~~				X	X				
~~DG-AV5S-3.5-4 (720-91134-9)~~	~~2/1/19~~	~~12:40 Pacific~~		~~Solid~~				X	X				

Note. Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time: 2/4/19 1420	Company TRAD	Received by:	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time: 2/5/19 1000	Company TA 1171

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR88 3/3

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No.: 720-41036.2
Client Contact: Shipping/Receiving	Phone	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91134-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/13/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3546 Standard 8082 PCB list	8260B_LUFTMS/5035A_5_FW_7 8260 (MOD)VOCs + ONS	8260B/CA_LUFTMS/5035A_F_FW_7 8260-C4-C12 Volatile Fuel Hydrocarbons	8260B_LUFTMS/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
~~DG-AV5S-7.5-8 (720-91134-10)~~	2/1/19	12:40 Pacific		Solid				X	X			2	
~~DUP-95 (720-91134-11)~~	2/1/19	Pacific		Solid				X	X			2	
DUP-93 (720-91134-12)	2/1/19	Pacific		Solid			X	X	X			3	
~~DG-AP6S-3.5-4 (720-91134-13)~~	2/1/19	13:10 Pacific		Solid				X	X			2	
~~DG-AN5S-0.5-1 (720-91134-14)~~	2/1/19	13:30 Pacific		Solid				X	X			2	
~~DG-AN5S-3.5-4 (720-91134-15)~~	2/1/19	13:30 Pacific		Solid				X	X			2	
TB-02.01.19 (720-91134-16)	2/1/19	Pacific		Water						X	X	2	check for 2 phases
FB-02.01.19 (720-91134-17)	2/1/19	Pacific		Water						X	X	2	check for 2 phases

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Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time: 2/4/19 12:20	Company: TRPG	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time: 2/5/19 10:00	Company TA IRV

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: IR88 3-3/3 3

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-91190-1

Job Description: Brisbane OU-2 Data Gap Investigation

Contract Number: No Number Assigned

For:
Geosyntec Consultants, Inc.
2700 Ygnacio Valley Road
Suite 130
Walnut Creek, CA 94598

Attention: Mr. Krys Jesionek

Approved for release.
Laura Turpen
Project Manager I
2/25/2019 3:29 PM

Designee for
Urvashi Patel, Manager of Project Management
17461 Derian Ave, Irvine, CA, 92614-5817
urvashi.patel@testamericainc.com
02/25/2019

cc: Bill Chen
Miranda Kahrilas
Mr. Tony Smith

CA ELAP Certification # 2705
NELAC Certification # 01117CA
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

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Method 8015B - DRO Sample Data 3

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TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_029.d
Lims ID: 720-91190-A-5-C
Client ID: IDW-SOIL
Sample Type: Client
Inject. Date: 13-Feb-2019 01:17:04 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: #: 100 Name: 720-0056555-029
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\DRO5B.m
Limit Group: DRO
Last Update: 13-Feb-2019 12:51:15 Calib Date: 12-Feb-2019 09:00:53
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0311

First Level Reviewer: luj Date: 13-Feb-2019 12:51:15

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
22 n-Nonane		2.632			ND	
23 n-Decane	3.883	3.851	0.032	4210	NC	M
A 1 C9-C13	4.589	(2.632-6.545)		61233	5.16	M
A 21 Stoddard Solvent	4.589	(2.632-6.545)		61233	5.39	M
A 57 C10-C12	4.799	(3.851-5.747)		33321	3.39	M
24 Dodecane	5.673	5.747	-0.074	19348	NC	M
A 3 C9 - C17	5.940	(2.632-9.248)		138833	10.1	M
A 47 C9 - C18	6.227	(2.632-9.823)		169810	15.1	M
A 60 C10-C16	6.235	(3.851-8.619)		103424	8.53	M
A 15 Kerosene	6.505	(2.632-10.377)		206366	18.3	M
A 25 C9-C19	6.505	(2.632-10.377)		206366	15.0	M
26 C13	6.507	6.545	-0.038	2508	NC	M
$ 27 n-Decanoic Acid (Surr)		7.174			ND	U
A 59 C12-C16	7.183	(5.747-8.619)		89451	9.11	M
A 62 C10-C20	7.381	(3.851-10.911)		325141	33.1	M
A 28 C9-C24	7.730	(2.632-12.828)		897346	91.4	M
A 29 C9-C25	7.947	(2.632-13.262)		1354900	138.0	M
A 54 C10-C23	8.114	(3.851-12.377)		713788	72.7	M
A 4 C10-C24	8.340	(3.851-12.828)		882641	89.9	M
A 16 C10-C25	8.557	(3.851-13.262)		1340195	136.5	M
45 Hexadecane		8.619			ND	
A 14 C10-C26	8.765	(3.851-13.680)		1427707	145.4	M
A 67 C12-C22	8.828	(5.747-11.909)		588618	60.0	M
A 5 Diesel	9.162	(3.851-14.472)		2492946	253.9	M
A 32 C10-C28	9.162	(3.851-14.472)		2492946	253.9	M
A 12 Unknown Hydrocarbons	9.162	(3.851-14.472)		2492946	NC	M
A 30 C13-C22	9.227	(6.545-11.909)		558571	56.9	M
44 Heptadecane	9.270	9.248	0.022	11846	NC	M
A 31 C12-C24	9.287	(5.747-12.828)		868668	88.5	M
49 n-Octadecane	9.833	9.823	0.010	17861	NC	M
A 52 Mineral oil	9.908	(2.632-17.184)		8274156	741.3	
A 9 Crude Oil Range Organics (	9.640	(2.853-16.427)		6731209	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.908	(2.632-17.184)		6330328	NC	M
33 C19	10.383	10.377	0.006	34686	NC	M
A 64 C13-C28	10.509	(6.545-14.472)		2448926	249.4	M
A 17 C10-C36	10.139	(3.851-16.427)		6315623	643.3	M
A 13 C9-C40	10.661	(2.632-18.690)		10967407	1393.0	
A 68 Crude Oil Range Organics (	10.661	(2.632-18.690)		10967407	NC	
A 58 C16-C24	10.724	(8.619-12.828)		788875	80.3	M
61 icosane	10.907	10.911	-0.004	21527	NC	M
A 6 C10-C40	11.271	(3.851-18.690)		10960502	1392.3	
$ 34 p-Terphenyl		11.883			ND	U
35 n-Docosane		11.909			ND	
A 18 C12-C40	12.218	(5.747-18.690)		10916939	1387.1	
36 Tricosane	12.393	12.377	0.016	168853	NC	M
A 66 C13-C40	12.618	(6.545-18.690)		10555870	1344.1	
37 n-Tetracosane	12.837	12.828	0.009	238630	NC	M
A 2 C16-C36 ORO	12.901	(8.619-17.184)		7264238	1018.2	
38 C25	13.290	13.262	0.028	87512	NC	M
A 19 C16-C40	13.655	(8.619-18.690)		10787599	1372.8	
46 n-Hexacosane		13.680			ND	
A 20 C19-C36	13.781	(10.377-17.184)		5130631	658.0	
A 55 C23-C32	14.144	(12.377-15.911)		4332794	1054.8	
39 n-Octacosane		14.472			ND	
65 C29	14.940	14.849	0.091	541235	NC	M
A 40 C24-C36	15.006	(12.828-17.184)		6641604	1163.5	M
A 7 Motor Oil	15.006	(12.828-17.184)		6548082	1147.1	
A 50 C25-C36	15.223	(13.262-17.184)		6270591	1165.2	
A 10 C22-C40	15.299	(11.909-18.690)		9528872	1202.8	
A 41 C23-C40	15.534	(12.377-18.690)		9339919	1208.1	
A 8 C24-C40	15.759	(12.828-18.690)		9111609	1221.6	
56 Dotriacontane	15.923	15.911	0.012	326622	NC	M
A 51 C28-C40	16.581	(14.472-18.690)		7596950	1545.2	
A 63 C29-C40	16.770	(14.849-18.690)		7001367	1604.2	
42 n-Hexatriacontane		17.184			ND	
43 C40		18.690			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

U - Marked Undetected

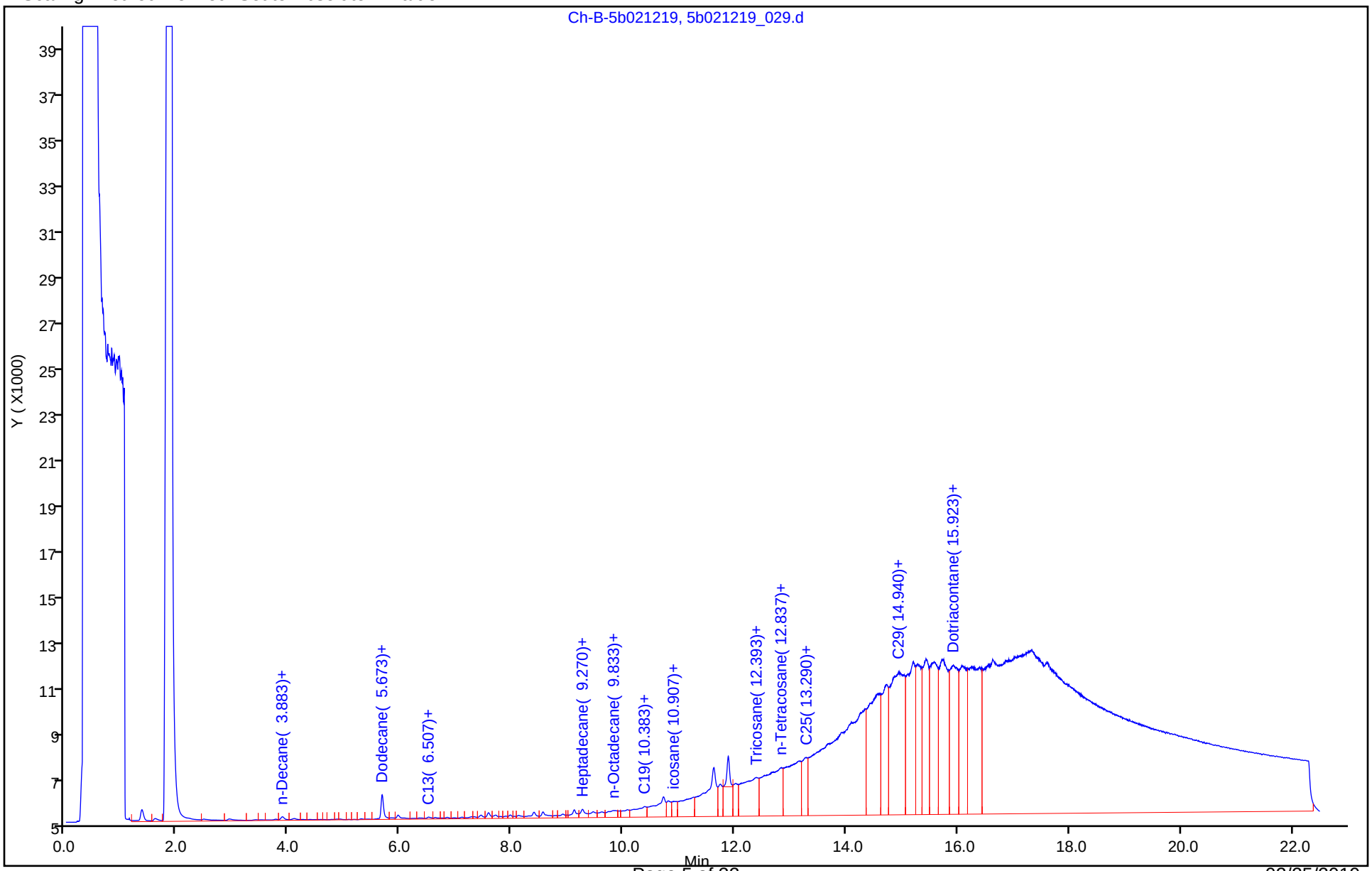
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TestAmerica Pleasanton

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Client ID:	IDW-SOIL				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value

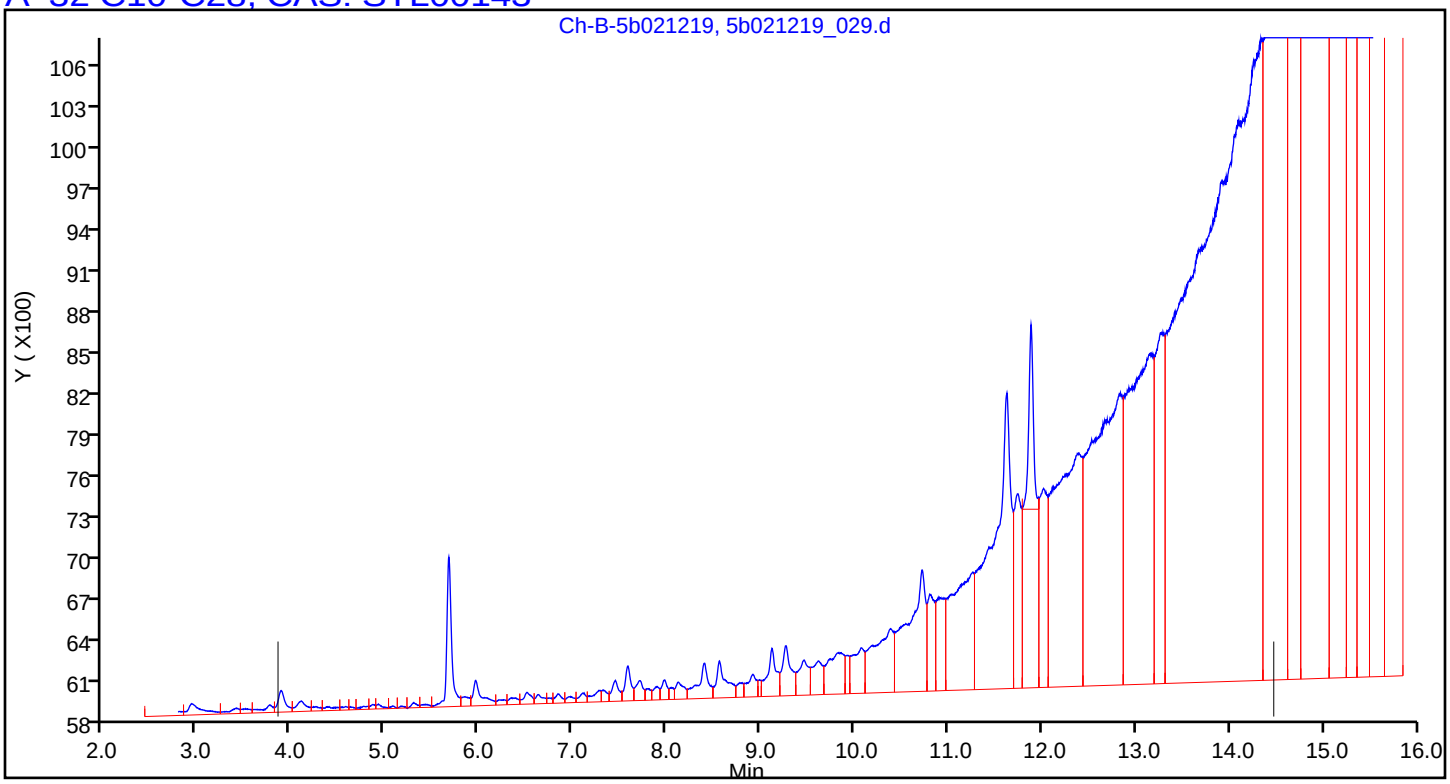


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TestAmerica Pleasanton

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Lims ID:	720-91190-A-5-C	Lab Sample ID:	720-91190-5		
Client ID:	IDW-SOIL				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

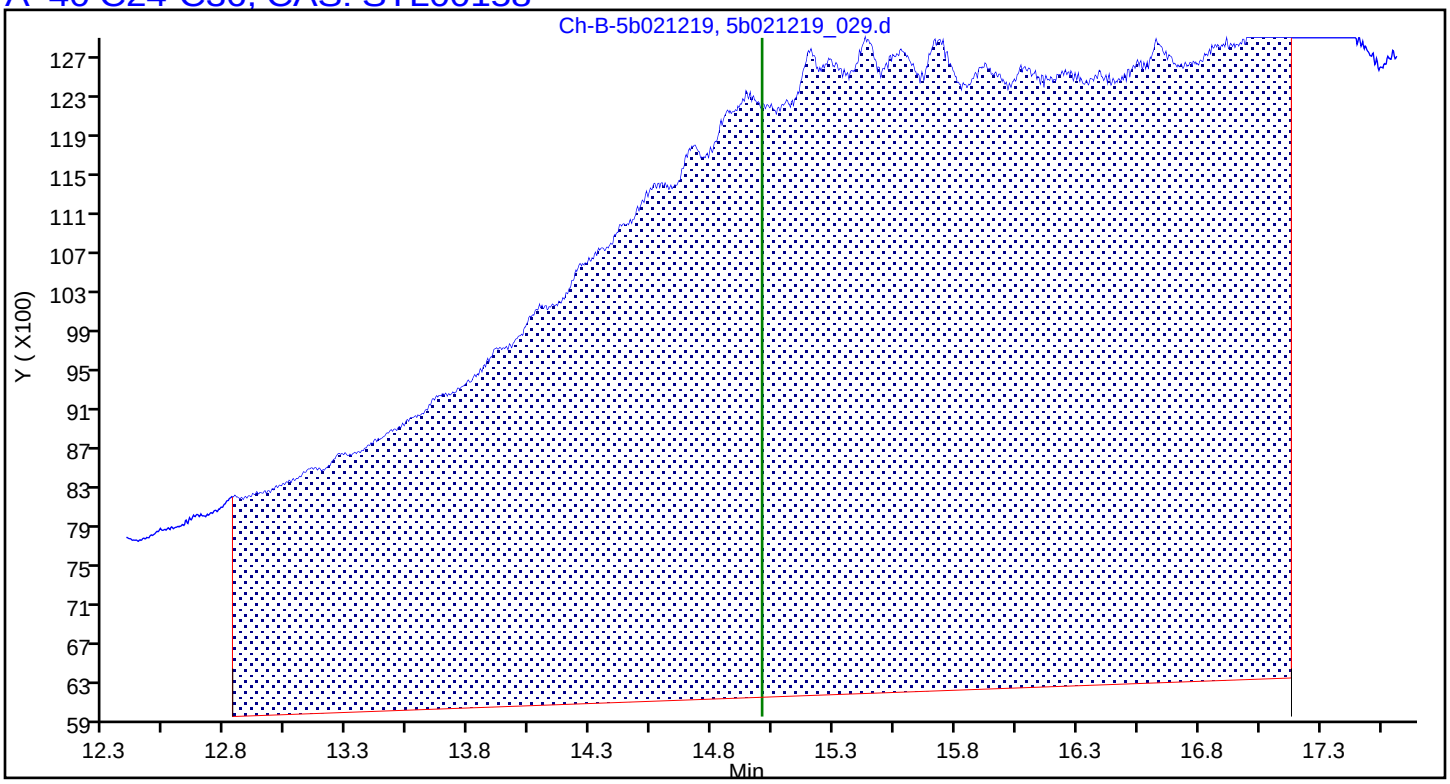


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TestAmerica Pleasanton

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Lims ID:	720-91190-A-5-C	Lab Sample ID:	720-91190-5		
Client ID:	IDW-SOIL				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

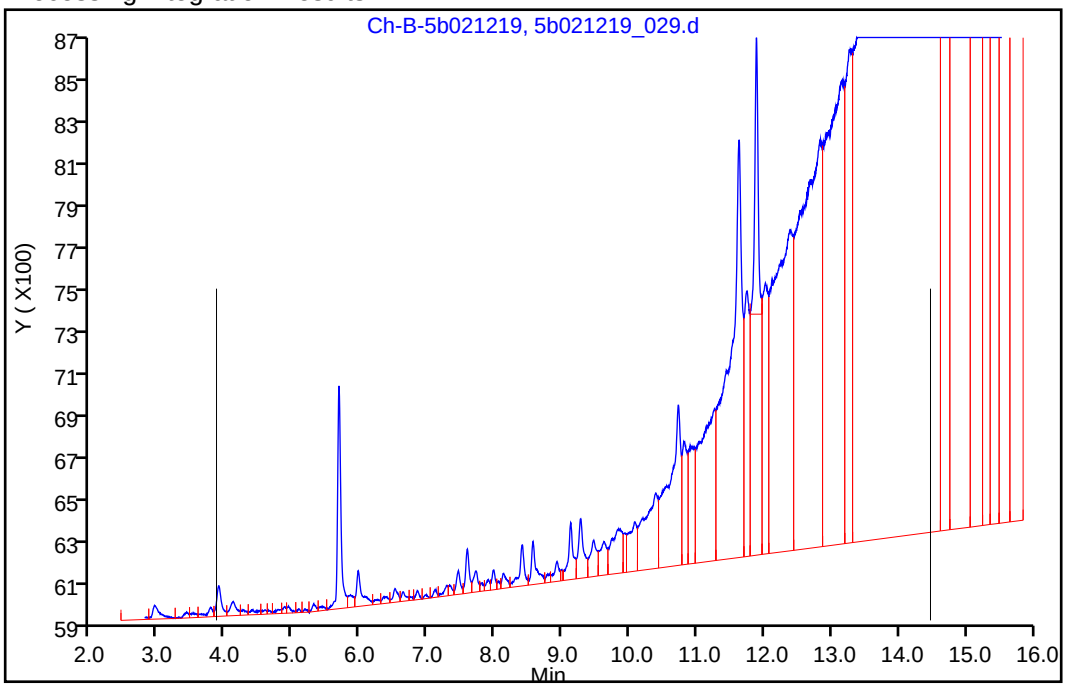
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Lims ID:	720-91190-A-5-C	Lab Sample ID:	720-91190-5		
Client ID:	IDW-SOIL				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, RT: 9.162, CAS: STL00143

Signal: 1

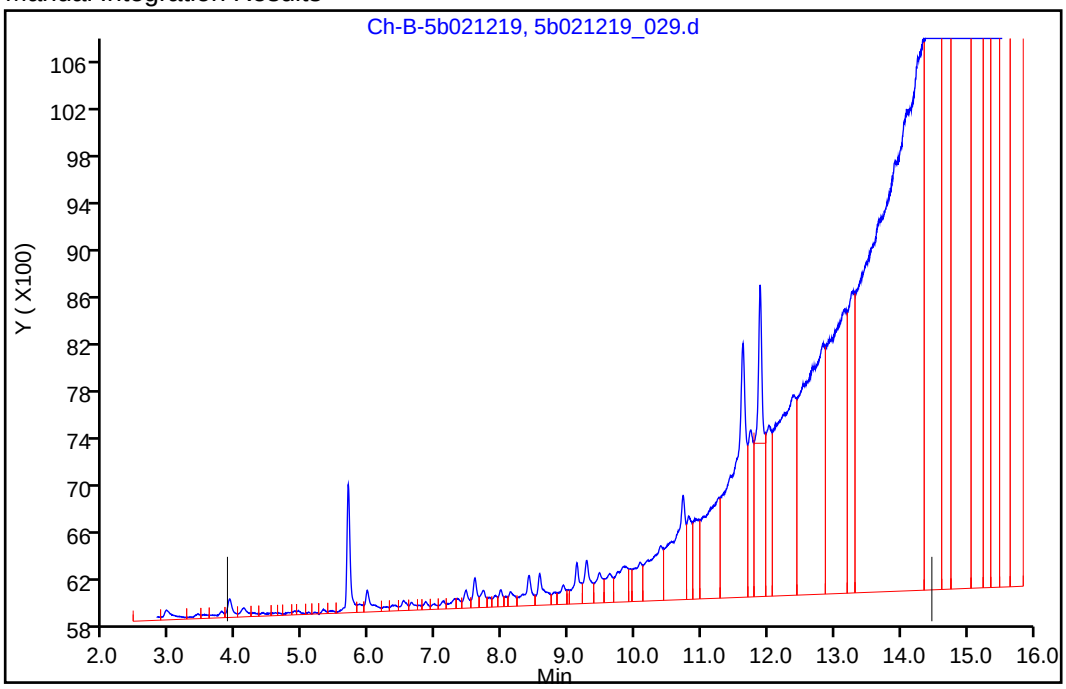
Processing Integration Results

RT: 9.16
Response: 1204385
Amount: 122.6684



Manual Integration Results

RT: 9.16
Response: 2492946
Amount: 253.9103



Reviewer: luj, 13-Feb-2019 12:51:06

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

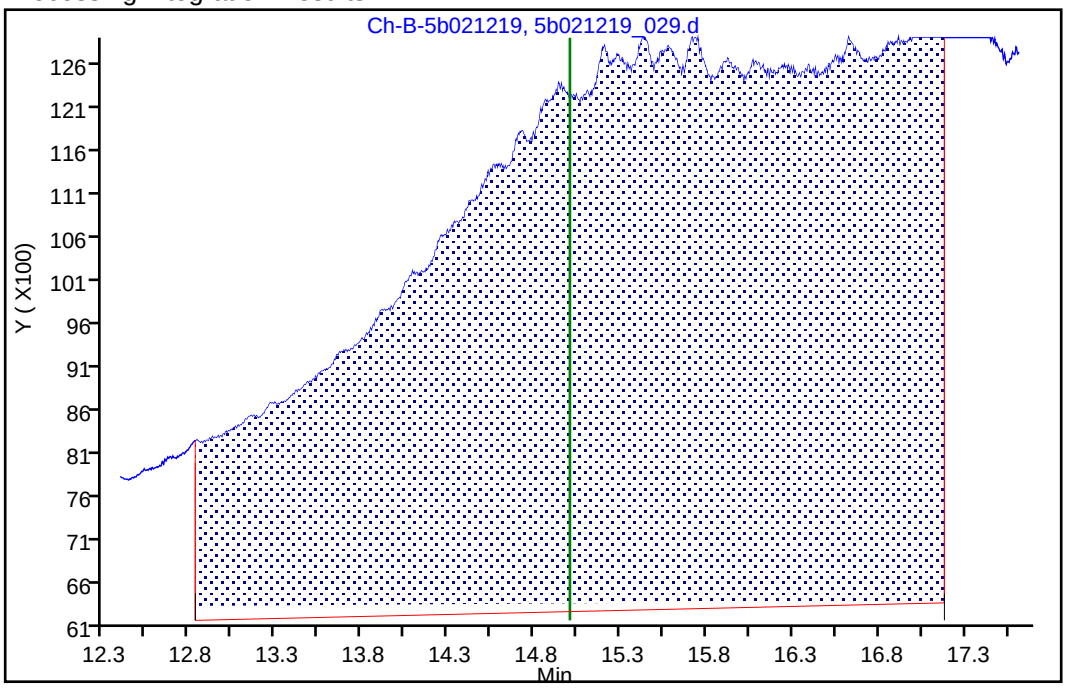
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Client ID:	IDW-SOIL				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 15.006, CAS: STL00158

Signal: 1

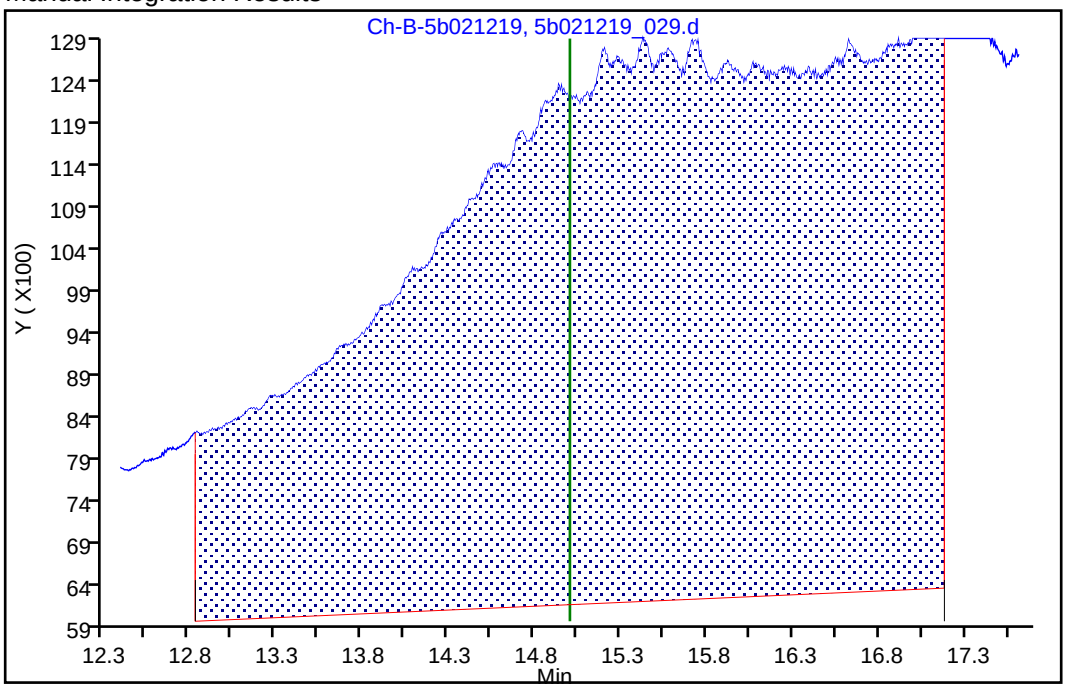
Processing Integration Results

RT: 15.01
Response: 6548082
Amount: 1147.1309



Manual Integration Results

RT: 15.01
Response: 6641604
Amount: 1163.5147



Reviewer: luj, 13-Feb-2019 12:50:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

User Disabled Compound Report

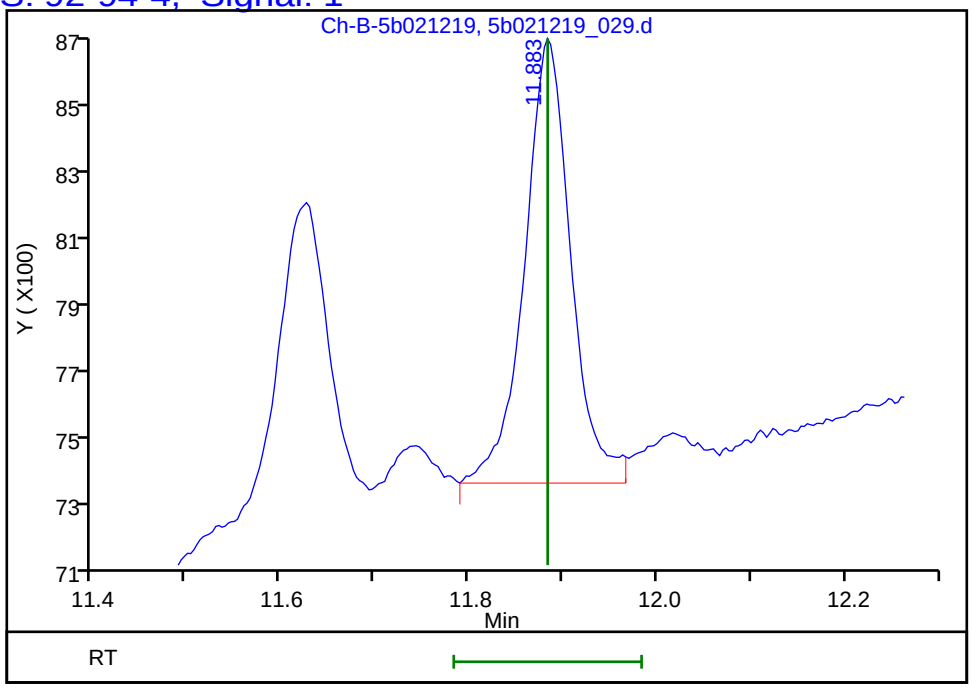
TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190212-56555.b\5b021219_029.d

Injection Date:	13-Feb-2019 01:17:04	Instrument ID:	CHDRO5		
Lims ID:	720-91190-A-5-C	Lab Sample ID:	720-91190-5		
Client ID:	IDW-SOIL				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

$ 34 p-Terphenyl, CAS: 92-94-4, Signal: 1

RT: 11.88
Response: 22415
Amount: 1.951584



Reviewer: luj, 13-Feb-2019 12:51:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Pleasanton
Target Compound Quantitation Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_040.d
Lims ID: 720-91190-A-6-C
Client ID: IDW-OIL AREA SOIL
Sample Type: Client
Inject. Date: 15-Feb-2019 03:42:10 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 115 Name: 720-0056591-040
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m
Limit Group: DRO
Last Update: 15-Feb-2019 12:00:59 Calib Date: 14-Feb-2019 09:16:17
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0311

First Level Reviewer: luj Date: 15-Feb-2019 12:00:59

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
	22 n-Nonane	2.634	2.628	0.006	684	NC	
	23 n-Decane	3.808	3.846	-0.038	5999	NC	
A	1 C9-C13	4.582	(2.628-6.536)		2547632	214.9	
A	21 Stoddard Solvent	4.582	(2.628-6.536)		2547632	224.1	
A	57 C10-C12	4.792	(3.846-5.738)		915444	93.2	
	24 Dodecane	5.762	5.738	0.024	63191	NC	
A	3 C9 - C17	5.930	(2.628-9.233)		12084021	879.6	
A	47 C9 - C18	6.219	(2.628-9.810)		15206708	1354.7	
A	60 C10-C16	6.226	(3.846-8.607)		9172763	756.3	
A	15 Kerosene	6.496	(2.628-10.365)		18102010	1608.8	
A	25 C9-C19	6.496	(2.628-10.365)		18102010	1312.8	
	26 C13		6.536			ND	
$	27 n-Decanoic Acid (Surr)		7.154			ND	U
A	59 C12-C16	7.172	(5.738-8.607)		8257319	841.0	
A	62 C10-C20	7.371	(3.846-10.897)		18749211	1909.6	
A	28 C9-C24	7.721	(2.628-12.814)		21511686	2191.0	
A	29 C9-C25	7.938	(2.628-13.248)		21975927	2238.3	
A	54 C10-C23	8.105	(3.846-12.363)		21091768	2148.2	
A	4 C10-C24	8.330	(3.846-12.814)		21484211	2188.2	
A	16 C10-C25	8.547	(3.846-13.248)		21948452	2235.5	
	45 Hexadecane	8.632	8.607	0.025	1204763	NC	
A	14 C10-C26	8.756	(3.846-13.666)		22123439	2253.3	
A	67 C12-C22	8.816	(5.738-11.895)		19555566	1991.8	
A	5 Diesel	9.152	(3.846-14.458)		22604469	2302.3	
A	32 C10-C28	9.152	(3.846-14.458)		22604469	2302.3	
A	12 Unknown Hydrocarbons	9.152	(3.846-14.458)		22604469	NC	
A	30 C13-C22	9.215	(6.536-11.895)		18332509	1867.2	
	44 Heptadecane	9.260	9.233	0.027	1351327	NC	
A	31 C12-C24	9.276	(5.738-12.814)		20568767	2095.0	
	49 n-Octadecane	9.780	9.810	-0.030	175409	NC	
A	52 Mineral oil	9.898	(2.628-17.168)		24879150	2229.1	
A	9 Crude Oil Range Organics (	9.898	(2.628-17.168)		24879150	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt mg/L	Flags
A 11 Bunker Range Organics (C9-	9.898	(2.628-17.168)		25494455	NC	
33 C19	10.320	10.365	-0.045	1145823	NC	
A 64 C13-C28	10.497	(6.536-14.458)		20465968	2084.5	
A 17 C10-C36	10.507	(3.846-17.168)		25466980	2593.9	
A 13 C9-C40	10.647	(2.628-18.666)		25655472	3317.8	E
A 68 Crude Oil Range Organics (	10.647	(2.628-18.666)		25655472	NC	
A 58 C16-C24	10.710	(8.607-12.814)		12311448	1253.9	
61 icosane	10.868	10.897	-0.029	163926	NC	
A 6 C10-C40	11.256	(3.846-18.666)		25622270	3313.7	E
$ 34 p-Terphenyl	11.867	11.873	-0.006	120770	10.5	
35 n-Docosane	11.984	11.895	0.089	401529	NC	
A 18 C12-C40	12.202	(5.738-18.666)		24681230	3190.8	E
36 Tricosane	12.364	12.363	0.001	273378	NC	
A 66 C13-C40	12.601	(6.536-18.666)		22023424	2849.5	
37 n-Tetracosane	12.815	12.814	0.001	180824	NC	
A 2 C16-C36 ORO	12.887	(8.607-17.168)		12166018	1705.3	
38 C25	13.238	13.248	-0.010	148375	NC	
A 19 C16-C40	13.637	(8.607-18.666)		15696308	2017.0	
46 n-Hexacosane	13.663	13.666	-0.003	64139	NC	
A 20 C19-C36	13.766	(10.365-17.168)		4273424	548.0	
A 55 C23-C32	14.129	(12.363-15.895)		1399356	340.7	
39 n-Octacosane	14.373	14.458	-0.085	132621	NC	
65 C29	14.829	14.835	-0.006	143133	NC	
A 40 C24-C36	14.991	(12.814-17.168)		2616948	458.5	M
A 7 Motor Oil	14.991	(12.814-17.168)		1527564	267.6	
A 50 C25-C36	15.208	(13.248-17.168)		1326248	246.4	
A 10 C22-C40	15.281	(11.895-18.666)		2362824	298.3	
A 41 C23-C40	15.515	(12.363-18.666)		2069446	267.7	
A 8 C24-C40	15.740	(12.814-18.666)		1799436	241.2	
56 Dotriacontane	15.875	15.895	-0.020	87923	NC	
A 51 C28-C40	16.562	(14.458-18.666)		1172285	207.1	
A 63 C29-C40	16.751	(14.835-18.666)		1020810	198.0	
42 n-Hexatriacontane		17.168			ND	
43 C40		18.666			ND	
$ 69 Stearic Acid (Surr)		0.000			ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

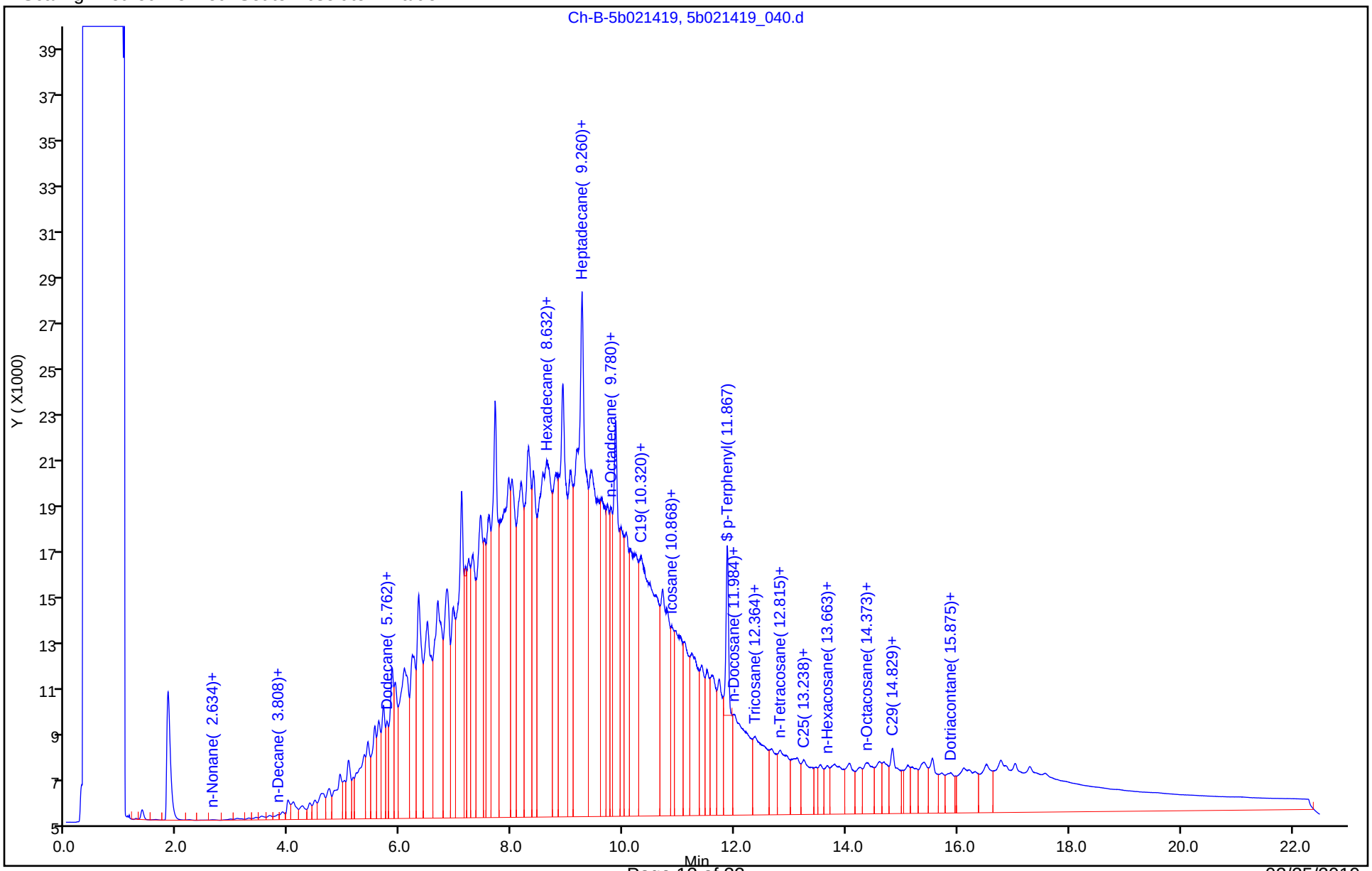
Report Date: 15-Feb-2019 12:01:01 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_040.d

Injection Date:	15-Feb-2019 03:42:10	Instrument ID:	CHDRO5	Operator ID:	manager
Lims ID:	720-91190-A-6-C	Lab Sample ID:	720-91190-6	Worklist Smp#:	40
Client ID:	IDW-OIL AREA SOIL				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	DRO5B	Limit Group:	DRO		

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Pleasanton
Recovery Report

Data File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_040.d
Lims ID: 720-91190-A-6-C
Client ID: IDW-OIL AREA SOIL
Sample Type: Client
Inject. Date: 15-Feb-2019 03:42:10 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 2.0000
Sample Info: #: 115 Name: 720-0056591-040
Operator ID: manager Instrument ID: CHDRO5

Method: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\DRO5B.m
Limit Group: DRO
Last Update: 15-Feb-2019 12:00:59 Calib Date: 14-Feb-2019 09:16:17
Integrator: Genie
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_003.d

Column 1 : Det: GC FID1A
Process Host: CTX0311

First Level Reviewer: luj Date: 15-Feb-2019 12:00:59

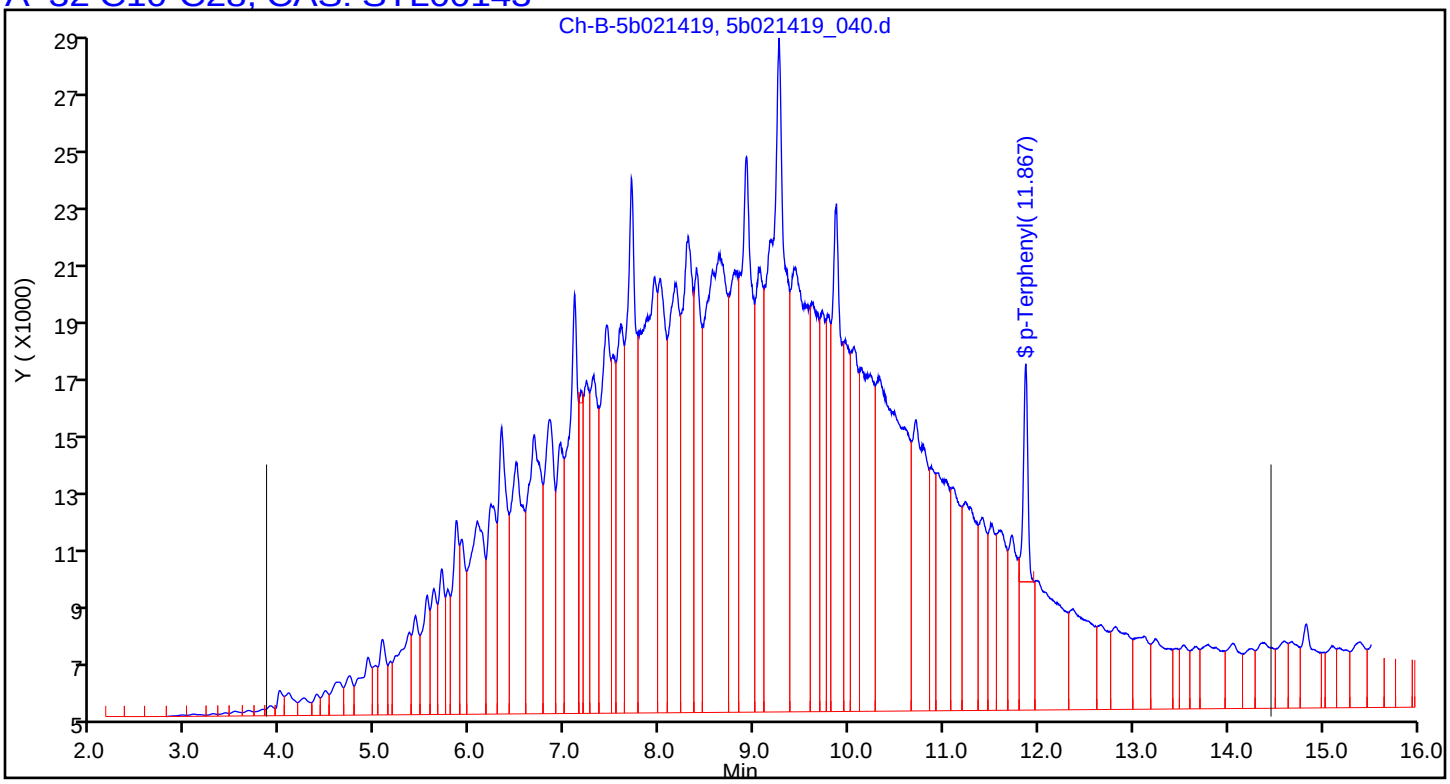
Compound	Amount Added	Amount Recovered	% Rec.
$ 34 p-Terphenyl	25.0	10.5	84.12

Report Date: 15-Feb-2019 12:01:03 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_040.d				
Injection Date:	15-Feb-2019 03:42:10	Instrument ID:	CHDRO5		
Lims ID:	720-91190-A-6-C	Lab Sample ID:	720-91190-6		
Client ID:	IDW-OIL AREA SOIL				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 32 C10-C28, CAS: STL00143

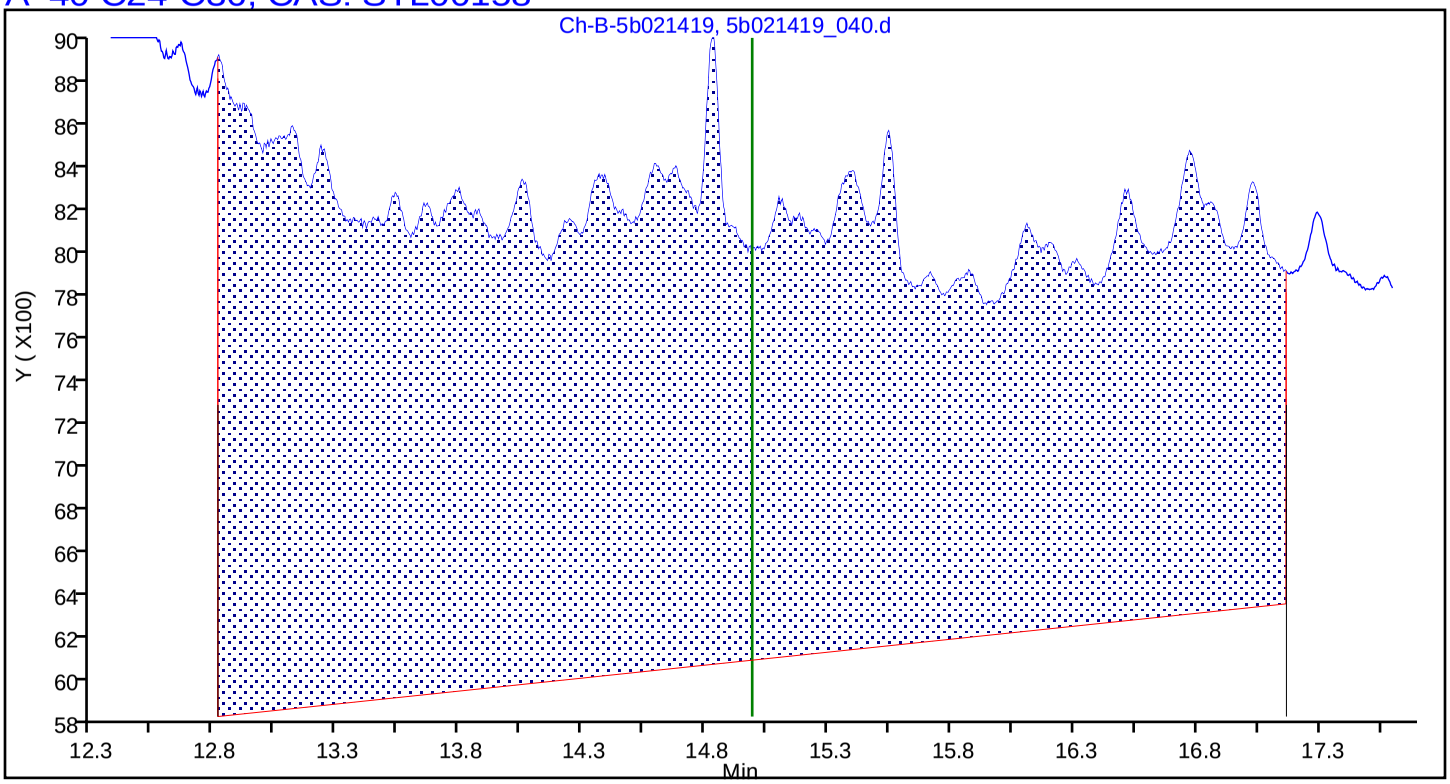


Report Date: 15-Feb-2019 12:01:04 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Pleasanton

Data File:	\\chromna\Pleasanton\ChromData\CHDRO5\20190214-56591.b\5b021419_040.d				
Injection Date:	15-Feb-2019 03:42:10	Instrument ID:	CHDRO5		
Lims ID:	720-91190-A-6-C	Lab Sample ID:	720-91190-6		
Client ID:	IDW-OIL AREA SOIL				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, CAS: STL00158



Manual Integration/User Assign Peak Report

TestAmerica Pleasanton

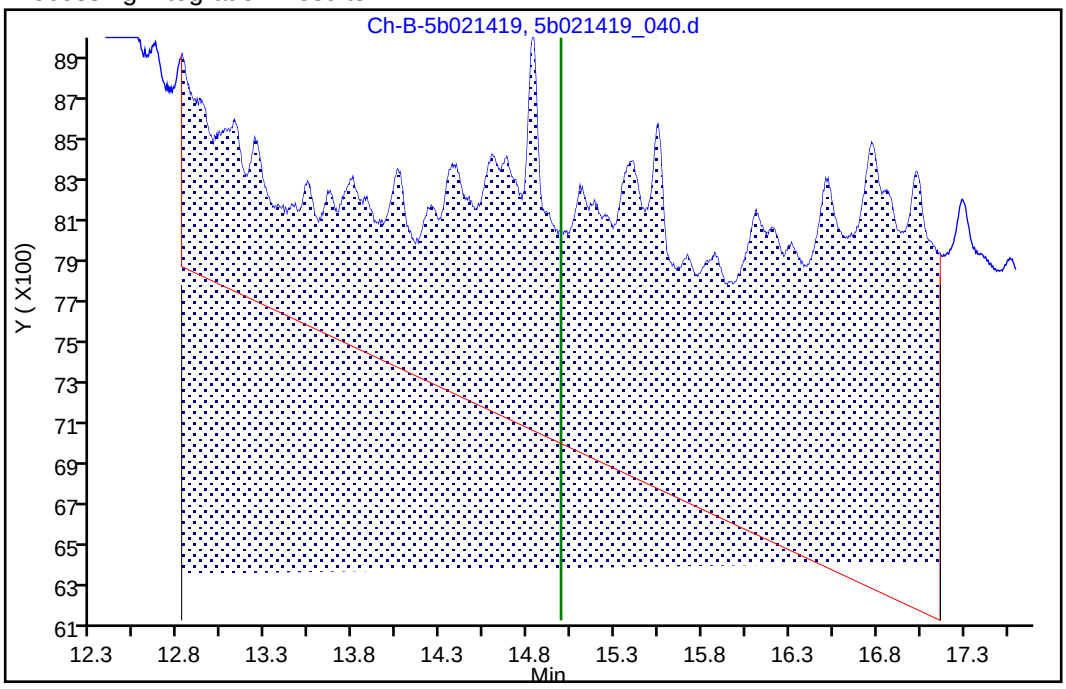
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Injection Date:	15-Feb-2019 03:42:10	Instrument ID:	CHDRO5		
Lims ID:	720-91190-A-6-C	Lab Sample ID:	720-91190-6		
Client ID:	IDW-OIL AREA SOIL				
Operator ID:	manager	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Method:	DRO5B	Limit Group:	DRO		
Column:		Detector	GC FID1A		

A 40 C24-C36, RT: 14.991, CAS: STL00158

Signal: 1

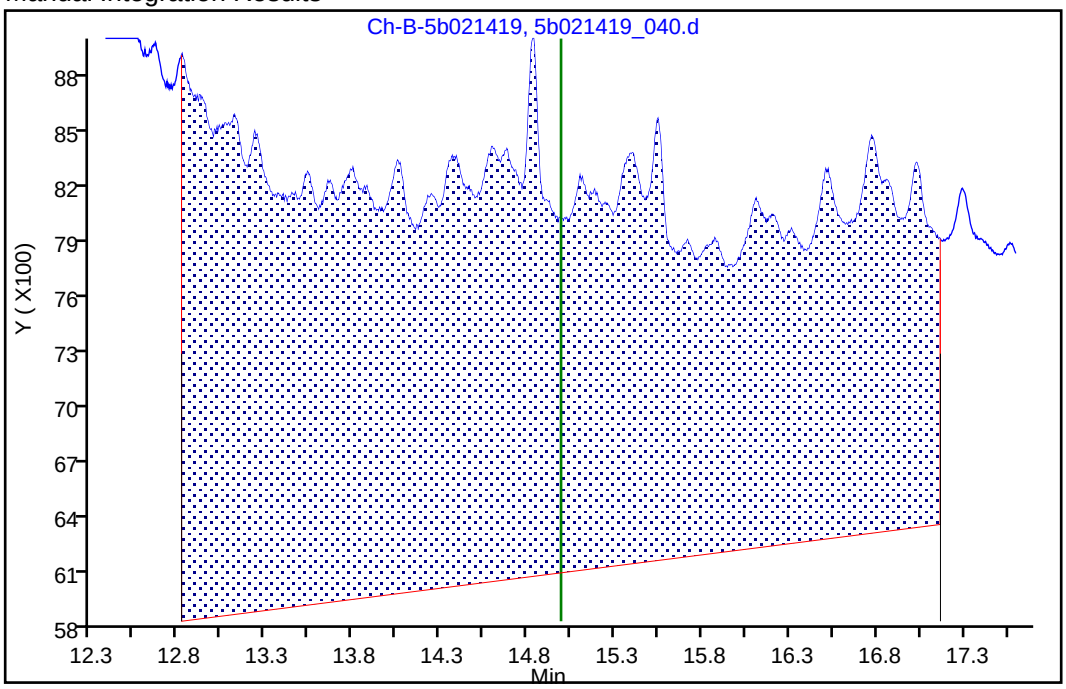
Processing Integration Results

RT: 14.99
Response: 1527564
Amount: 267.6075



Manual Integration Results

RT: 14.99
Response: 2616948
Amount: 458.4521



Reviewer: luj, 15-Feb-2019 12:00:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a022.d				
Lims ID:	720-91190-D-1-A				
Client ID:	IDW-DECONTAMINATION WATER				
Sample Type:	Client				
Inject. Date:	11-Feb-2019 18:44:26	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Feb-2019 23:07:18	Calib Date:	06-Feb-2019 15:24:38		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20190206-115153.b\B06a021.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: barnettl		Date:	11-Feb-2019 23:07:18		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.568	(1.870-7.267)		685953	207.6	
$ 127 n-Octacosane	7.075	7.087	-0.012	300281	92.2	
A 136 C24-C36	7.528	(5.883-9.172)		298378	90.3	

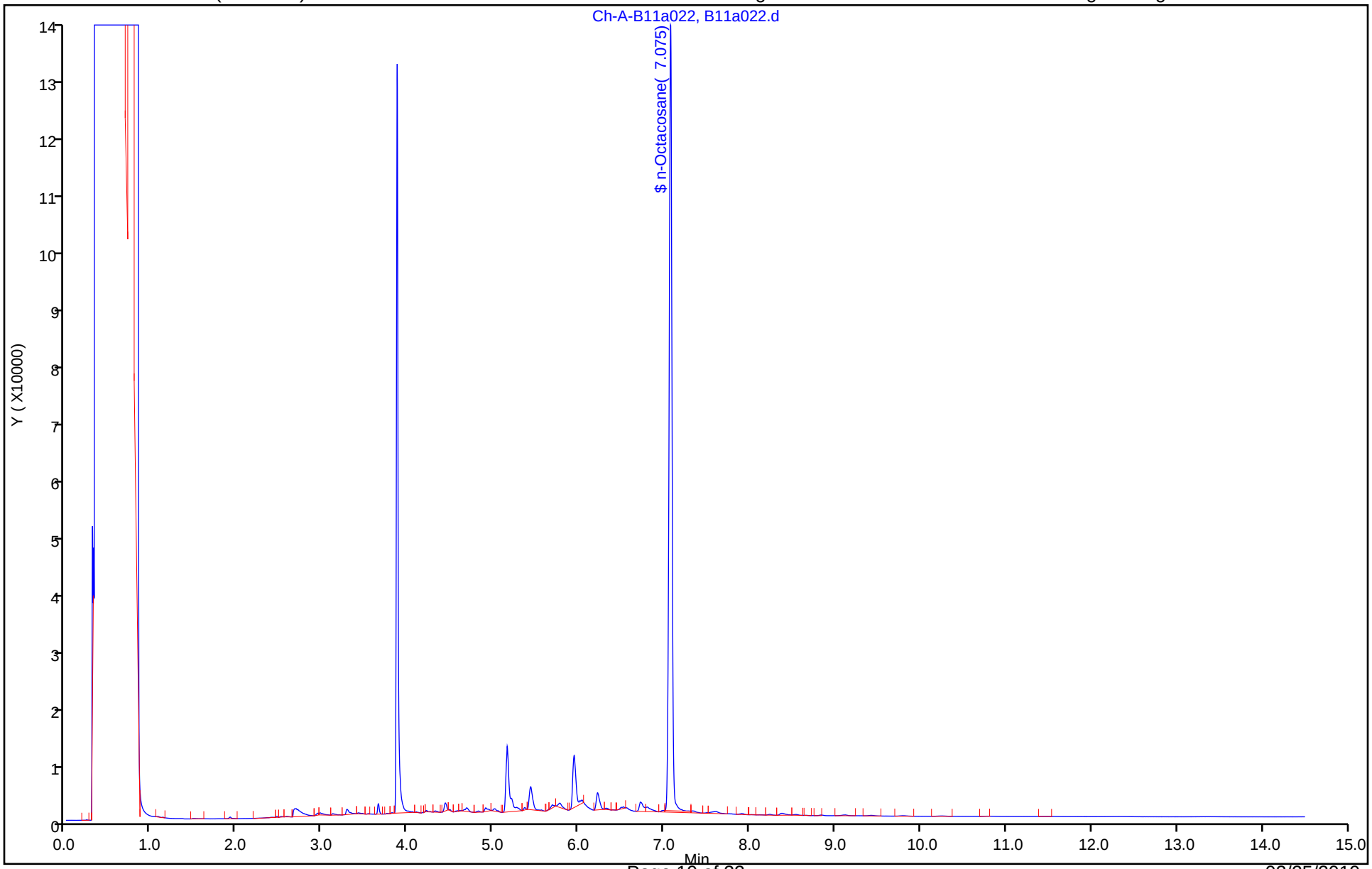
Report Date: 11-Feb-2019 23:07:18 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a022.d

Injection Date:	11-Feb-2019 18:44:26	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91190-D-1-A	Lab Sample ID:	440-91190-1	Worklist Smp#:	22
Client ID:	IDW-DECONTAMINATION WATER				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a022.d				
Lims ID:	720-91190-D-1-A				
Client ID:	IDW-DECONTAMINATION WATER				
Sample Type:	Client				
Inject. Date:	11-Feb-2019 18:44:26	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Feb-2019 23:07:18	Calib Date:	06-Feb-2019 15:24:38		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20190206-115153.b\B06a021.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: barnettl Date: 11-Feb-2019 23:07:18

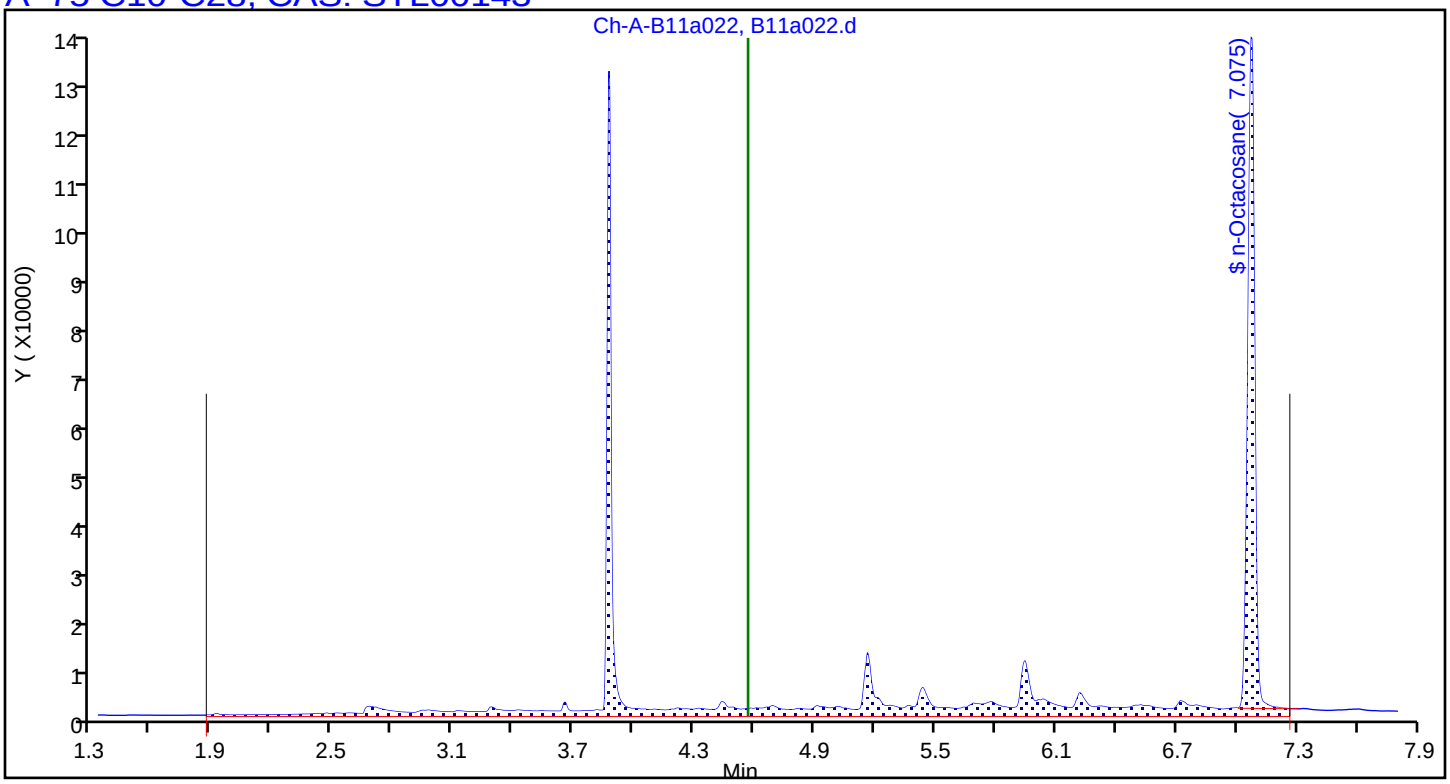
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	200.0	92.2	46.08

Report Date: 11-Feb-2019 23:07:18 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a022.d				
Injection Date:	11-Feb-2019 18:44:26	Instrument ID:	GC69A		
Lims ID:	720-91190-D-1-A	Lab Sample ID:	440-91190-1		
Client ID:	IDW-DECONTAMINATION WATER				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 75 C10-C28, CAS: STL00143

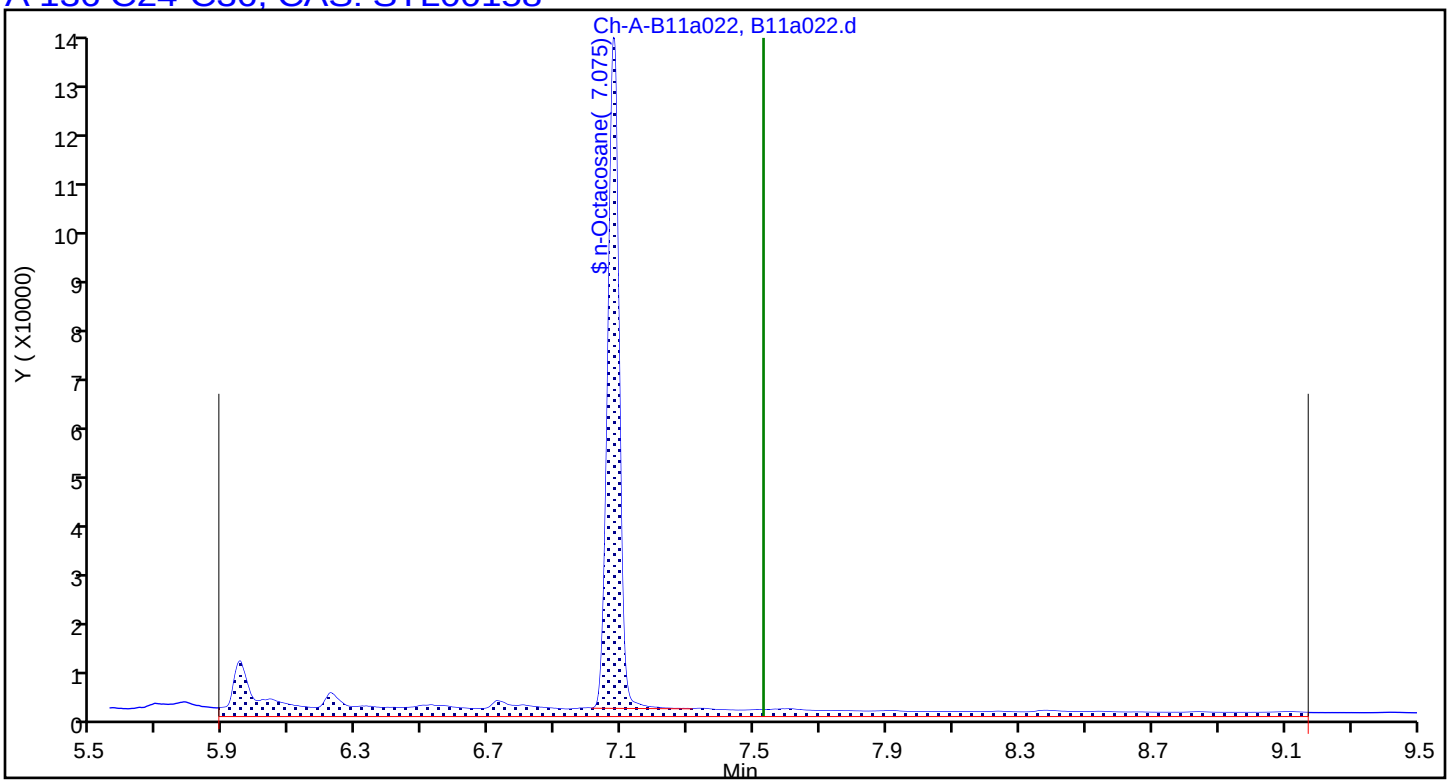


Report Date: 11-Feb-2019 23:07:18 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a022.d				
Injection Date:	11-Feb-2019 18:44:26	Instrument ID:	GC69A		
Lims ID:	720-91190-D-1-A	Lab Sample ID:	440-91190-1		
Client ID:	IDW-DECONTAMINATION WATER				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a023.d				
Lims ID:	720-91190-E-2-A				
Client ID:	IDW-PURGE WATER				
Sample Type:	Client				
Inject. Date:	11-Feb-2019 19:04:59	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Feb-2019 23:07:39	Calib Date:	06-Feb-2019 15:24:38		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20190206-115153.b\B06a021.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				
First Level Reviewer: barnettl		Date:	11-Feb-2019 23:07:39		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
A 75 C10-C28	4.576	(1.885-7.267)		15930891	4822.0	
$ 127 n-Octacosane	7.082	7.087	-0.005	238562	73.2	
A 136 C24-C36	7.528	(5.883-9.172)		9053573	2740.4	

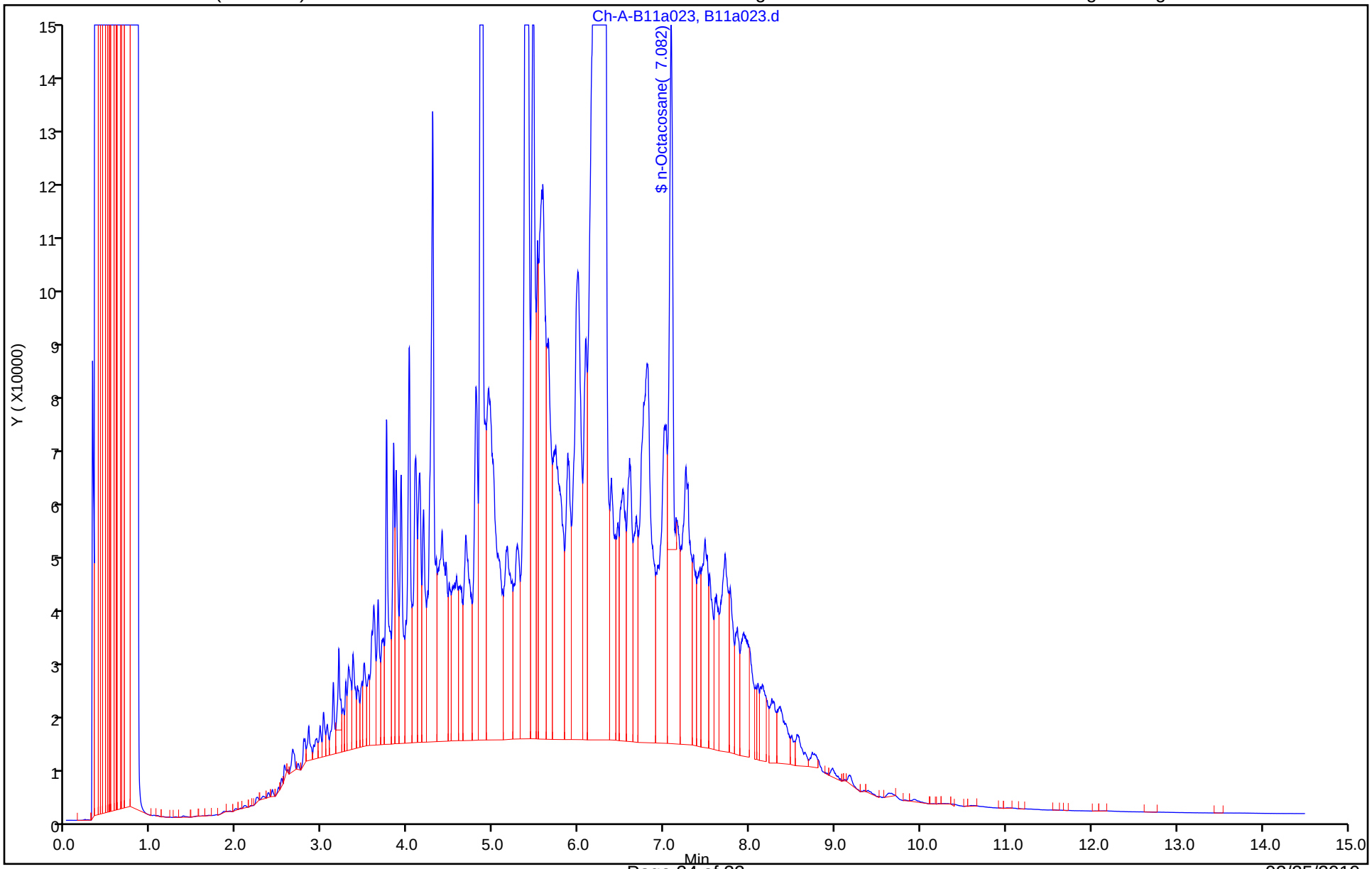
Report Date: 11-Feb-2019 23:07:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File: \\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a023.d

Injection Date:	11-Feb-2019 19:04:59	Instrument ID:	GC69A	Operator ID:	IRVINSTSVOA1
Lims ID:	720-91190-E-2-A	Lab Sample ID:	440-91190-2	Worklist Smp#:	23
Client ID:	IDW-PURGE WATER				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		

Column: ZB-5HT Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Recovery Report

Data File:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a023.d				
Lims ID:	720-91190-E-2-A				
Client ID:	IDW-PURGE WATER				
Sample Type:	Client				
Inject. Date:	11-Feb-2019 19:04:59	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	IRVINSTSVOA1	Instrument ID:	GC69A		
Method:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\8015DRO_69A.m				
Limit Group:	GC-8015DRO				
Last Update:	11-Feb-2019 23:07:39	Calib Date:	06-Feb-2019 15:24:38		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Irvine\ChromData\GC69A\20190206-115153.b\B06a021.d				
Column 1 :	ZB-5HT Inferno (0.25 mm)		Det: Ch-A-H24a007-20110825-175217		
Process Host:	CTX0307				

First Level Reviewer: barnettl Date: 11-Feb-2019 23:07:39

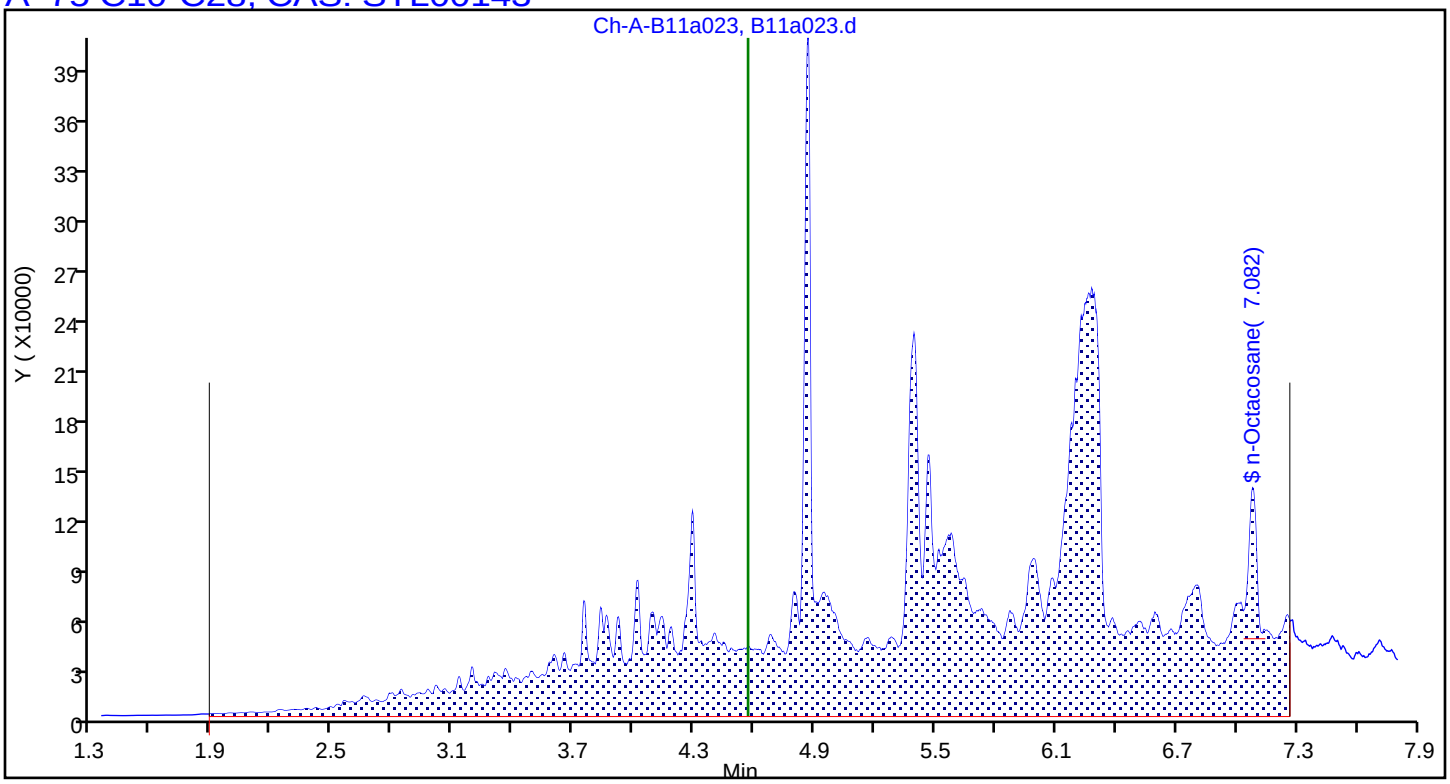
Compound	Amount Added	Amount Recovered	% Rec.
$ 127 n-Octacosane	100.0	73.2	73.22

Report Date: 11-Feb-2019 23:07:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a023.d				
Injection Date:	11-Feb-2019 19:04:59	Instrument ID:	GC69A		
Lims ID:	720-91190-E-2-A	Lab Sample ID:	440-91190-2		
Client ID:	IDW-PURGE WATER				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A_75 C10-C28, CAS: STL00143

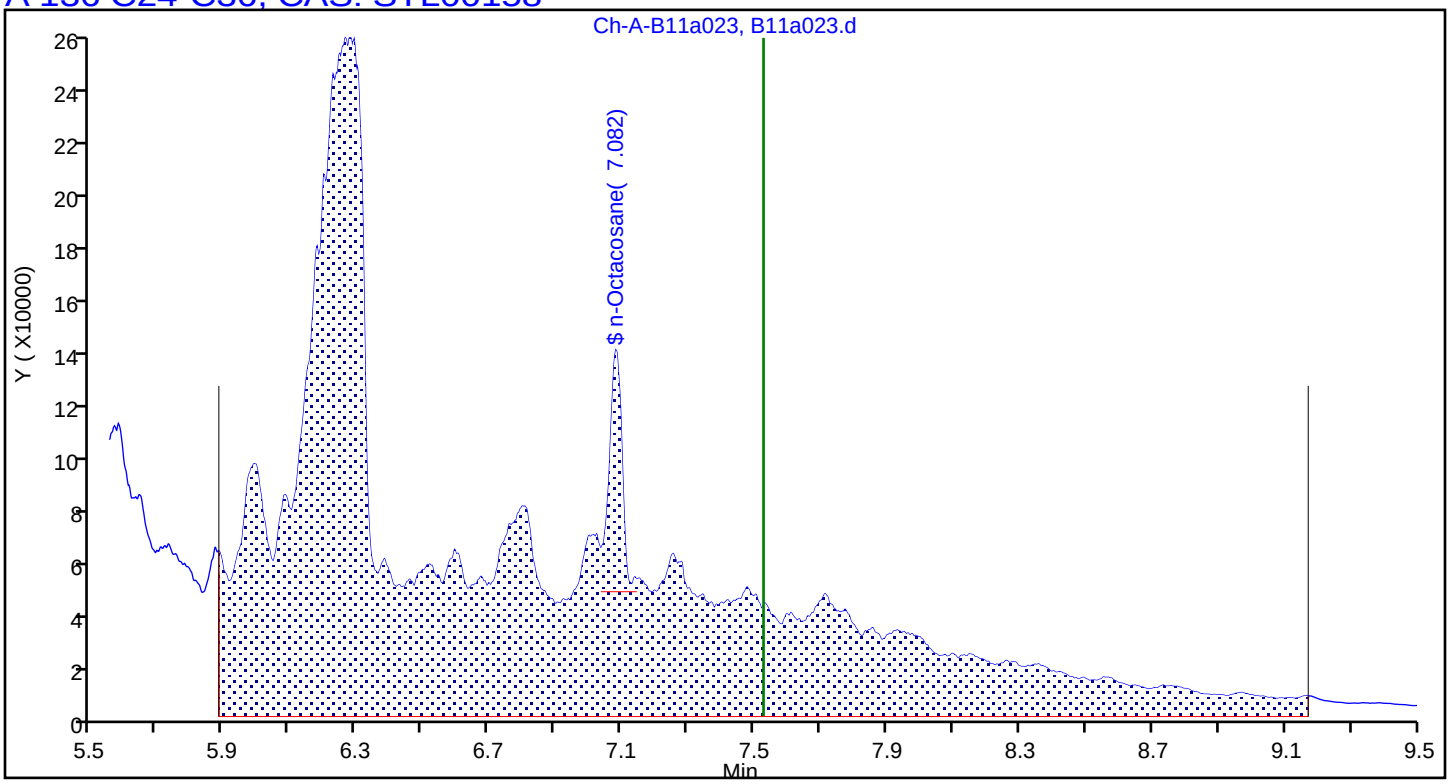


Report Date: 11-Feb-2019 23:07:40 Chrom Revision: 2.3 15-Jan-2019 08:51:34

TestAmerica Irvine

Data File:	\\chromna\Irvine\ChromData\GC69A\20190211-115318.b\B11a023.d				
Injection Date:	11-Feb-2019 19:04:59	Instrument ID:	GC69A		
Lims ID:	720-91190-E-2-A	Lab Sample ID:	440-91190-2		
Client ID:	IDW-PURGE WATER				
Operator ID:	IRVINSTSVOA1	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8015DRO_69A	Limit Group:	GC-8015DRO		
Column:	ZB-5HT Inferno (0.25 mm)	Detector	Ch-A-H24a007-20110825-175217		

A 136 C24-C36, CAS: STL00158



TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

02/25/2019

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s): 4786 4574 3790	COC No: 720-41084.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91190-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/15/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs (5030)	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	Total Number of containers	Special Instructions/Note:
IDW-SOIL (720-91190-5)	2/5/19	13:40 Pacific		Solid			X	X		
IDW-OIL AREA SOIL (720-91190-6)	2/5/19	13:40 Pacific		Solid			X	X		

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Olga Cinelas	Date/Time: 2/7/19 1045	Company TRIRU
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 19/23 IR89

Ver 09/20/2016

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TestAmerica Pleasanton
1220 Quarry Lane
720-91190
Pleasanton, CA 94566-4756
phone 925 484 1919 fax 925.600.3002

Chain of Custody Record

188300

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 1 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schachman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			Walk-in Client:
bchen@geosyntec com, mkahrilas@geosyntec com, tsmith @geosyntec com	☐ 2 weeks			
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91190 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270C)	CAM-17 Metals (6010B, 7471)	Chromium CrVI (7196)	TPH Diesel/ Motor Oil (8015B)	Sample Specific Notes
IDW - Decontamination Water	5 Feb. 2019	1350	C (MAD)	GW	9	Y		X	X	X	X	X	Metals and chromium samples filtered
IDW - Purge Water	↓	1400	C	GW	9	Y		X	X	X	X	X	
TB - 02.05.19		—			2			X					
FB - 02.05.19	↓	—			2			X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.1C, 0.8C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd ____ Corr'd ____ Therm ID No ____		
Relinquished by:	Company: Geosyntec	Date/Time: 1630 5 Feb. 2019	Received by:	Company: TAN PCS	Date/Time: 2-5-19 16:13
Relinquished by:	Company: TA PCS	Date/Time: 2-5-19	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA PCS	Date/Time: 2/5/19 1850

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

02/25/2019

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Urvashi	Carrier Tracking No(s):	COC No: 720-41064 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: urvashi.patel@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - California		Job #: 720-91190-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 2/15/2019			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Brisbane OU-2 Data Gap Investigation	Project #: 72013947			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030B 8260-(MOD) VOCs	8260B/CA_LUFTMS/5030B 8260-C4-C12 Volatile Fuel Hydrocarbons	8015B_DRO/3510C (MOD) 8015B- TEPH (DRO and MRO) Organics	8270C_SIM/3520C (MOD) 8270SIM-PAH SIM	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
IDW-DECONTAMINATION WATER (720-91190-1)	2/5/19	13:50 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
IDW-PURGE WATER (720-91190-2)	2/5/19	14.00 Pacific		Water			X	X	X	X	7	check for 2 phases, check for 2 phases-Use Gravity Separation Protocal- client specific
TB-02.05.19 (720-91190-3)	2/5/19	Pacific		Water			X	X			2	check for 2 phases
FB-02.05.19 (720-91190-4)	2/5/19	Pacific		Water			X	X			2	check for 2 phases

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 2/6/19 1407	Company: TAPS	Received by:	Date/Time: 2/7/19 1045	Company: TAPS	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	

Custody Seals Intact: (Δ Yes) Δ No	Custody Seal No.: 4786 4574 3790	Cooler Temperature(s) °C and Other Remarks: 1.8/2.2 IR89

Ver: 09/20/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91191

Chain of Custody Record

188301

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	1 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler Nathan Schaffman
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below ____			
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith @geosyntec.com	☐ 2 weeks			
Project Name Brisbane OU2 Investigation	☐ 1 week			
Site Brisbane OU2	☐ 2 days			
P O # WG2619/ TA project # 72013947	☐ 1 day			

720-91191 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
~~DG-W3s-0.5-1~~	~~5 Feb 2019~~	~~1100~~	~~G~~	~~S~~	~~1~~	N		X	X	X	X	X	X	X	N1F
1. DG-W3s-3.5-4	5 Feb 2019	1100	G	S	2	N						X	X	X	
2. DG-Y3s-0.5-1	"	1105	"	"	"	"						"	"	"	
3. DG-Y3s-3.5-4		1105													
4. DG-AA3s-0.5-1		1115													
5. DG-AA3s-3.5-4		1115													
6. DG-AA3s-7-7.5		1115													
7. DG-W3s-0.5-1		1100	↓	↓	↓	↓						↓	↓	↓	
8. DG-R15s-3.5-4		0740	G	S	4	N		X							
9. TB-02.05.19		—			2			X							
10. FB-02.05.19	↓	↓			2			X							
11. IDW-Soil	5 Feb. 2019	1340	C	S	1	N		X		X	X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

1.1°C, 0.3°C

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.	Cooler Temp. (°C) Obs'd 1 Corr'd ____ Therm ID No. ____			
Relinquished by	Company Geosyntec	Date/Time 1630 5 Feb. 2019	Received by	Company TA PLS	Date/Time 2-5-19 16:32
Relinquished by	Company TA PLS	Date/Time 2-5-19 18:45	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company TA-PLS	Date/Time 2/5/19 18:50

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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02/25/2019

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566-4756
phone 925.484 1919 fax 925.600.3002

720-91191

Chain of Custody Record

1883301

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Anthony Smith	Site Contact: George Hichborn	Date: 5 February 2019	COC No
Geosyntec Consultants	Tel/Fax: 510-285-2770	Lab Contact: Urvashi Patel	Carrier:	2 of 2 COCs
1111 Broadway 6th Floor	Analysis Turnaround Time			Sampler
Oakland, CA 94607	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 285-2770 Phone	TAT if different from Below _____			Walk-in Client
bchen@geosyntec.com, mkahnlas@geosyntec.com, tsmith@geosyntec.com	☐ 2 weeks			Lab Sampling
Project Name: Brisbane OU2 Investigation	☐ 1 week			
Site: Brisbane OU2	☐ 2 days			Job / SDG No.
P O # WG2619/ TA project # 72013947	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs & GRO (8260B)	SVOCs - PAHs (8270-SIM)	CAM-17 Metals (6010B, 7471)	Diesel and Motor Oil Range Organics (8015B)	OCPs (8081A)	PCBs (8082)	Asbestos (CARB 435)	Sample Specific Notes
			G	S	7	N		X	X	X	X	X	X	X	N4P
12 IDW - Oil Area Soil	5 Feb. 2019	1340	C	S	1	N		X		X	X				

Page 32 of 82

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp. (°C) Obs'd _____ Corr'd: _____ Therm ID No _____			
Relinquished by	Company: Geosyntec	Date/Time: 1630 5 Feb 2019	Received by	Company: TA PLS	Date/Time: 2-5-19 16:30
Relinquished by	Company: TA PLS	Date/Time: 18:30 2-5-19	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: TA-PLS	Date/Time: 2/5/19 1850