



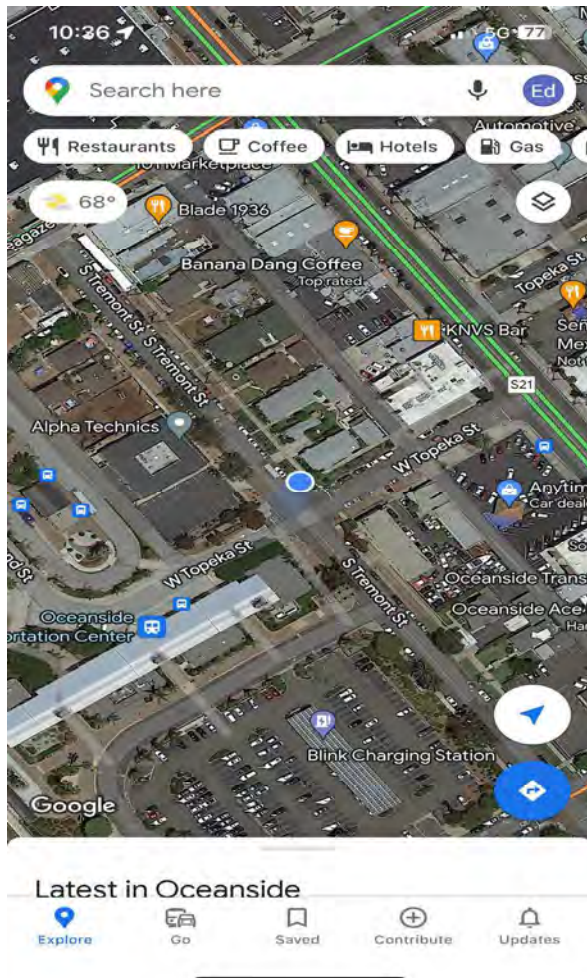
11.10 Noise Data

This document is designed for double-sided printing to conserve natural resources.

Site Number: NM-1			
Recorded By: Eddie Torres			
Job Number: 190739			
Date: 10/26/22			
Time: 10:23 am			
Location: Corner of Tremont Street/Topeka Street			
Source of Peak Noise: Traffic Noise			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
55.9	75.4	44.6	97.4

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	03/10/2022	
	Microphone	Brüel & Kjær	4189	3086765	03/10/2022	
	Preamp	Brüel & Kjær	ZC 0032	25380	03/10/2022	
	Calibrator	Brüel & Kjær	4231	2545667	03/10/2022	
Weather Data						
Est.	Duration: 10 minutes			Sky: Clear		
	Note: dBA Offset = 0.0			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.5 mph		69.4		50.1	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		10/26/2022 10:32:07
End Time:		10/26/2022 10:42:16
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.18

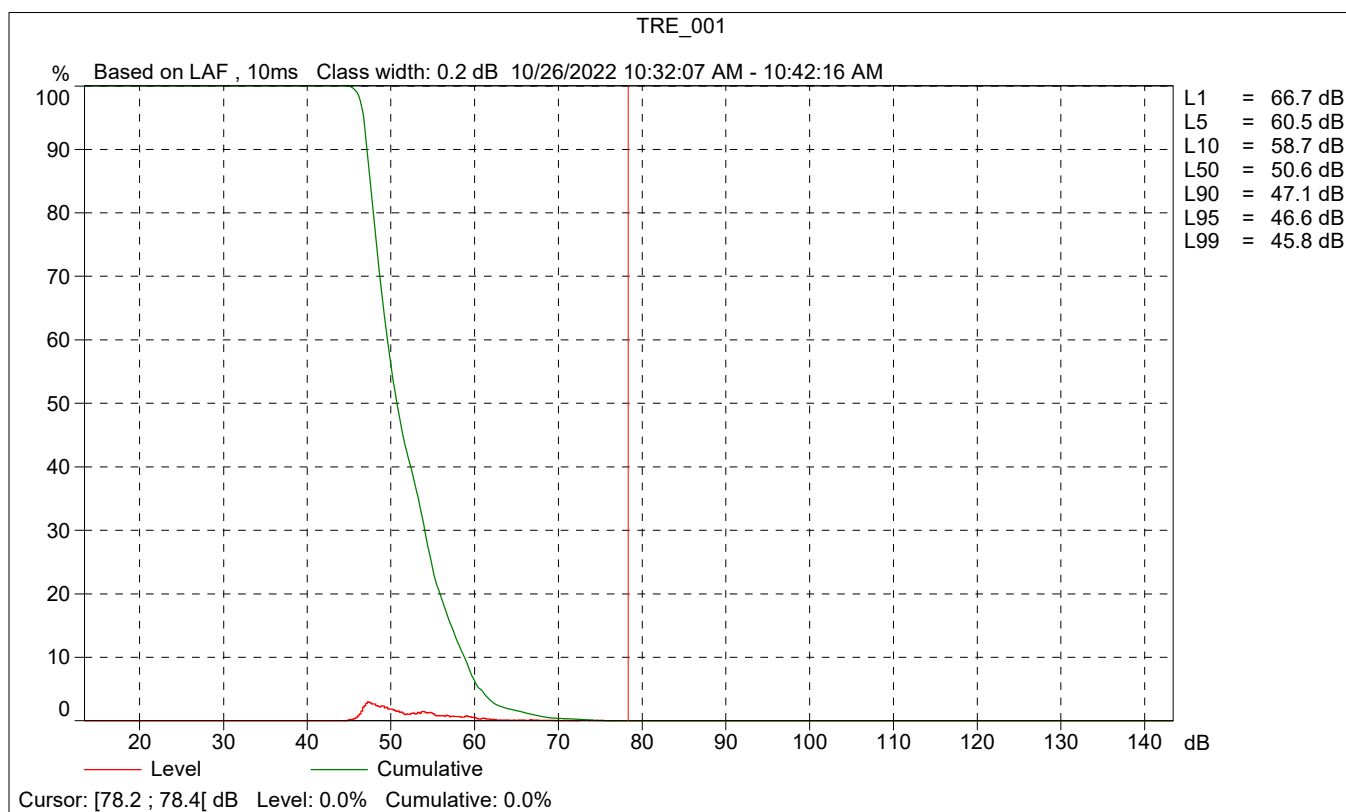
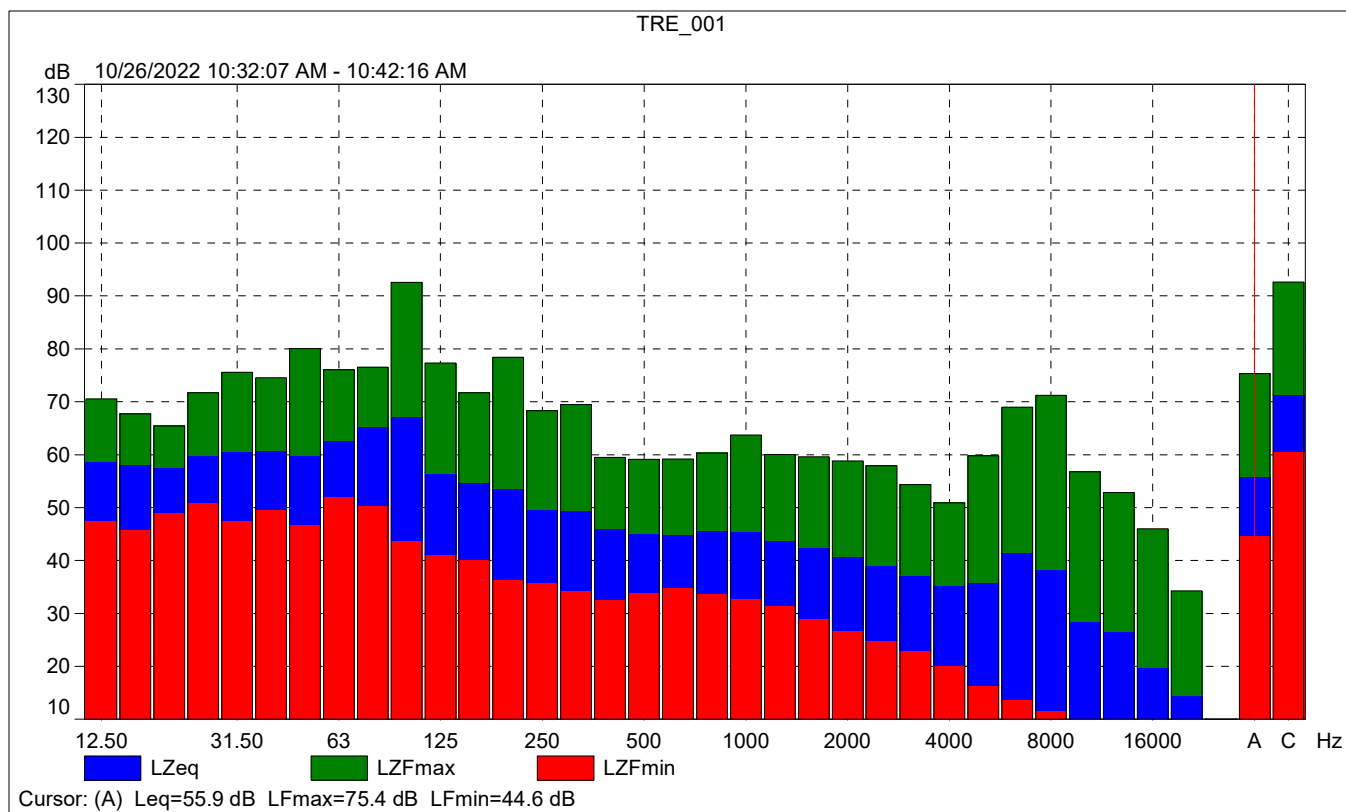
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

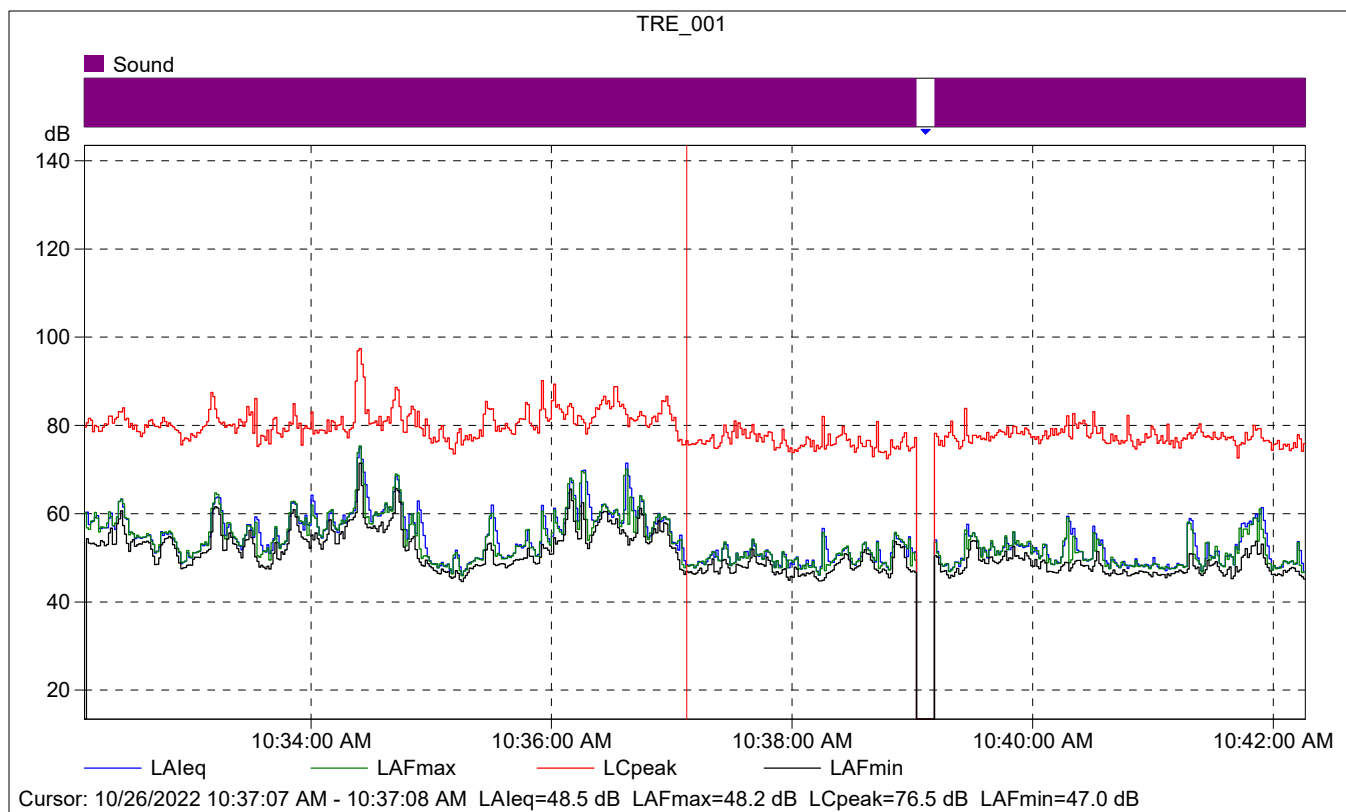
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		10/19/2022 07:11:45
Calibration Type:		External reference
Sensitivity:		43.3151684701443 mV/Pa

TRE_001

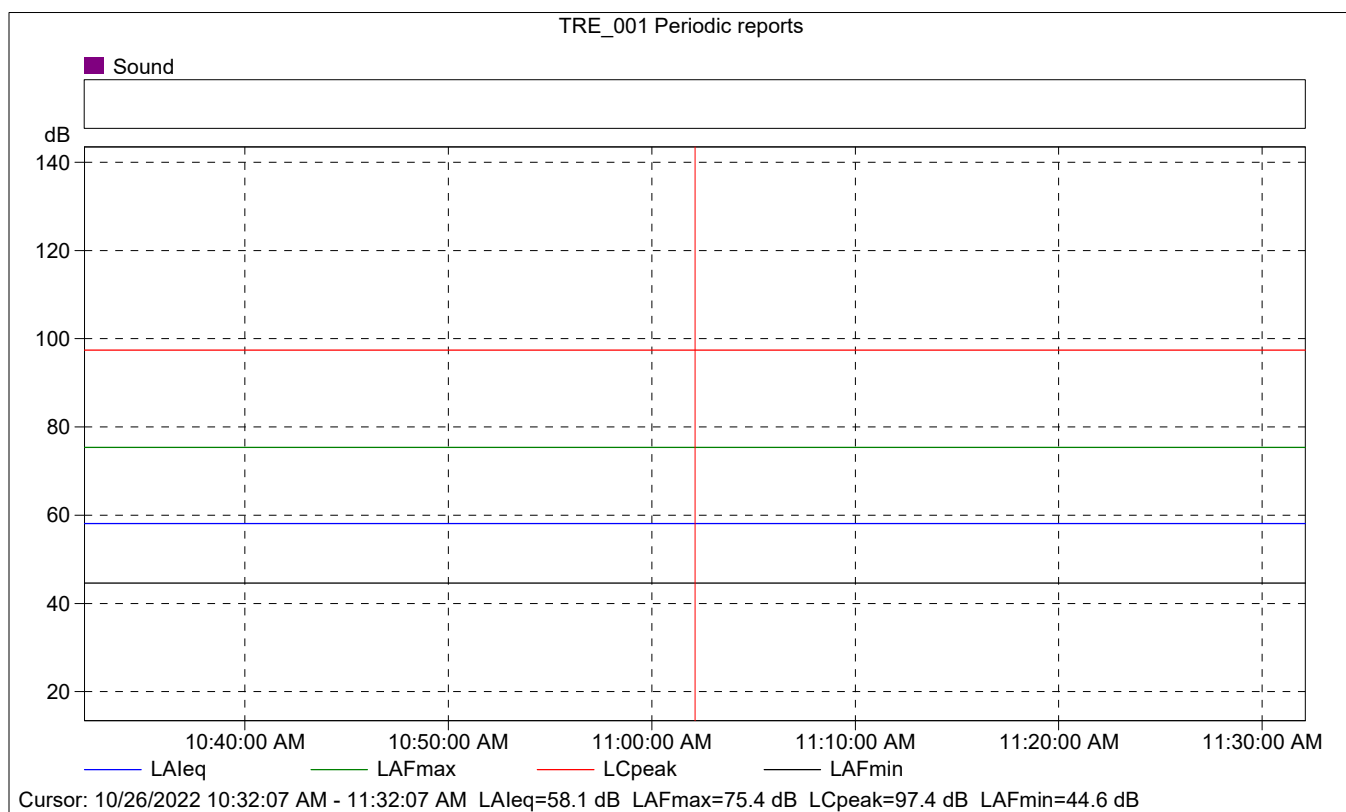
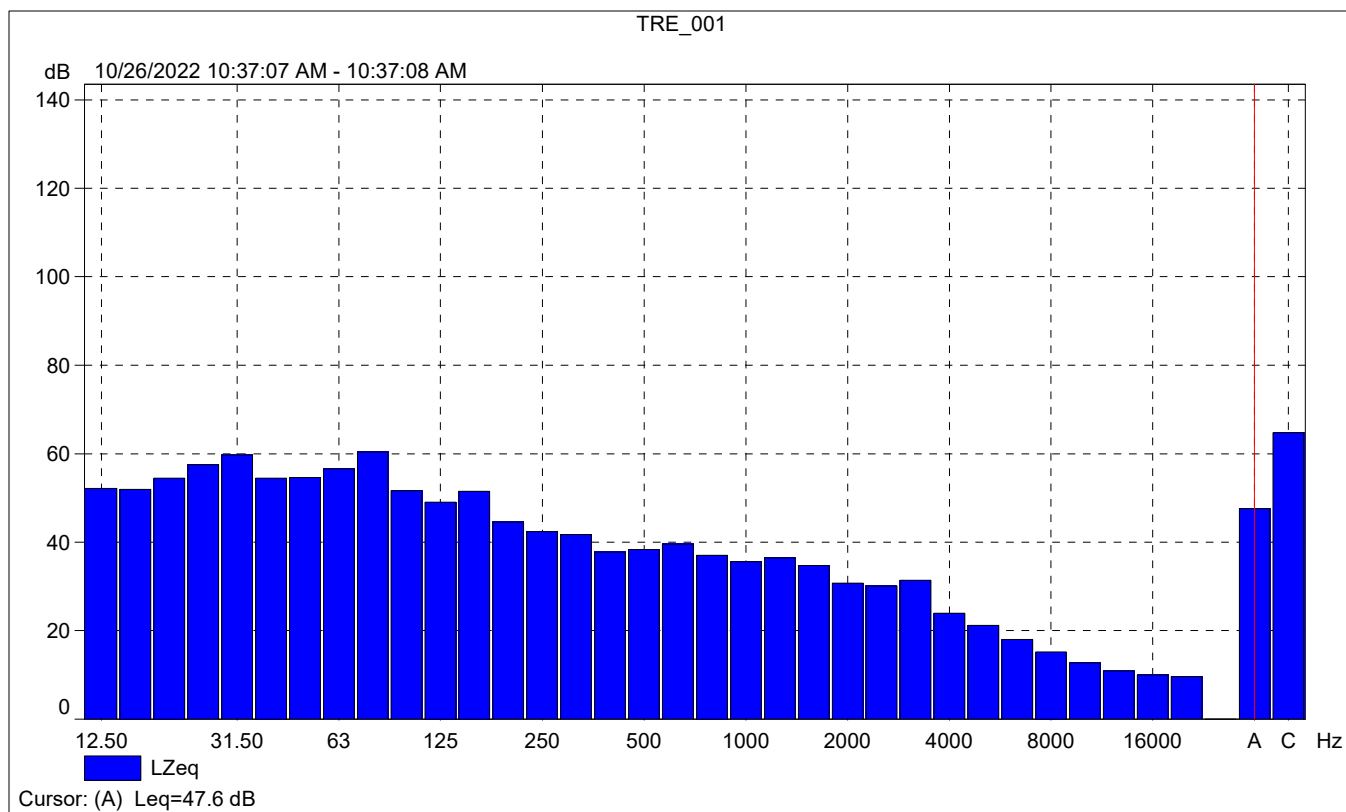
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	55.9	75.4	44.6
Time	10:32:07 AM	10:42:16 AM	0:10:00				
Date	10/26/2022	10/26/2022					





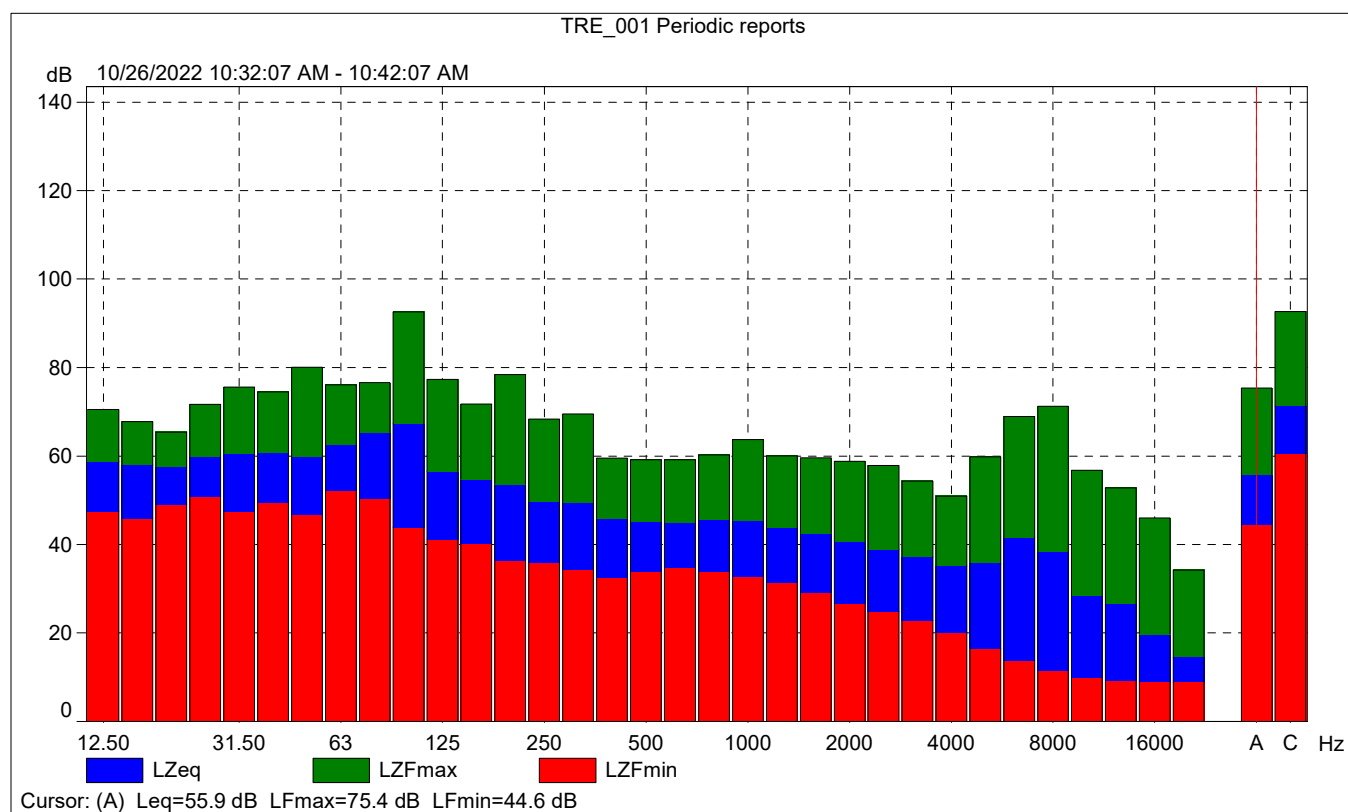
TRE_001

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			48.5	48.2	47.0
Time	10:37:07 AM	0:00:01			
Date	10/26/2022				

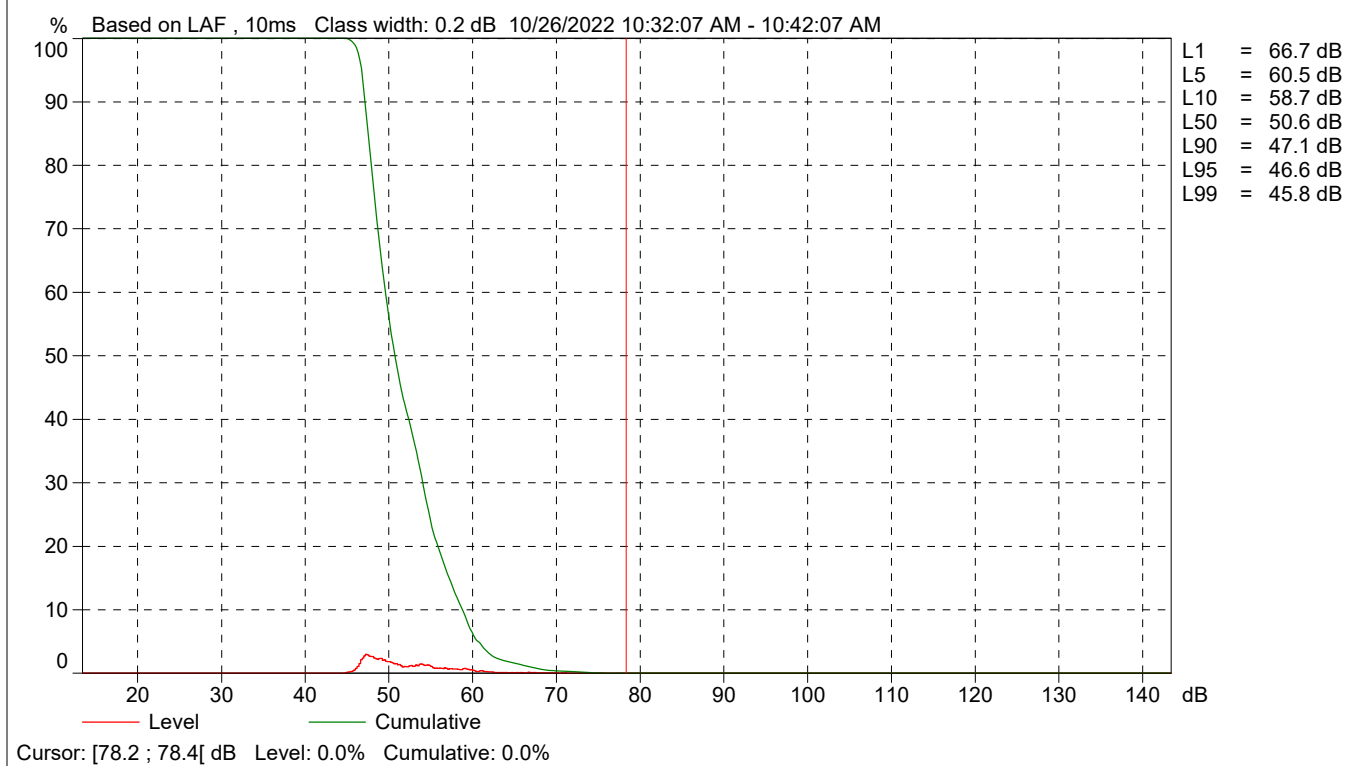


TRE_001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	58.1	75.4	44.6
Time	10:32:07 AM	0:10:00				
Date	10/26/2022					



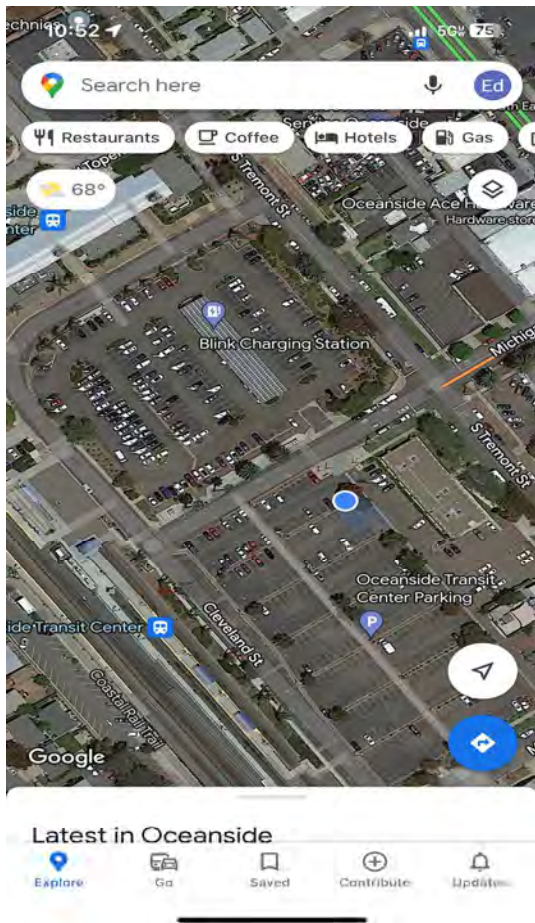
TRE_001 Periodic reports



Site Number: NM-2			
Recorded By: Eddie Torres			
Job Number: 190739			
Date: 10/26/22			
Time: 10:53 am			
Location: On-Site, along Michigan Street			
Source of Peak Noise: Traffic Noise			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
53.6	74.2	45.7	98.5

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	03/10/2022	
	Microphone	Brüel & Kjær	4189	3086765	03/10/2022	
	Preamplifier	Brüel & Kjær	ZC 0032	25380	03/10/2022	
	Calibrator	Brüel & Kjær	4231	2545667	03/10/2022	
Weather Data						
Est.	Duration: 10 minutes			Sky: Clear		
	Note: dBA Offset = 0.0			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.2 mph		70.1		49.4	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		10/26/2022 10:51:46
End Time:		10/26/2022 11:01:46
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.18

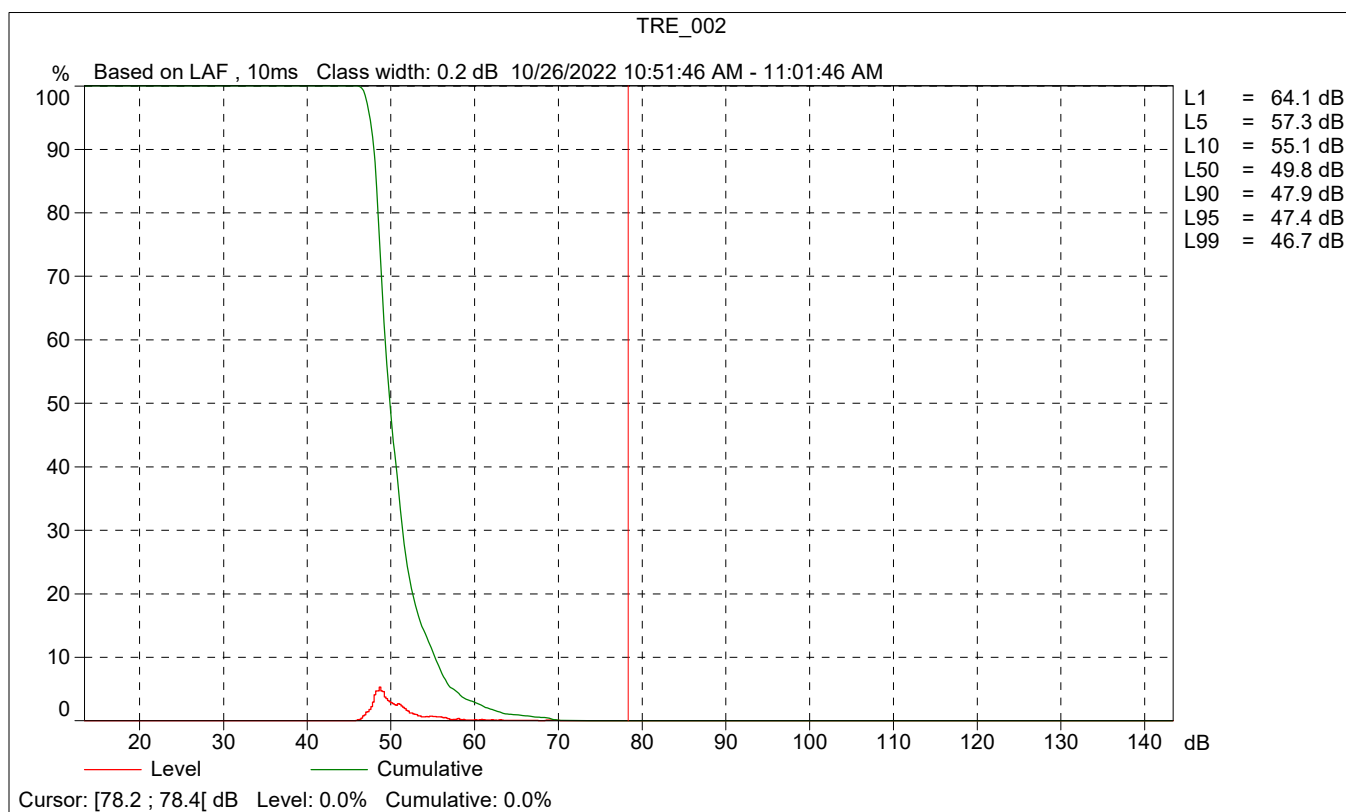
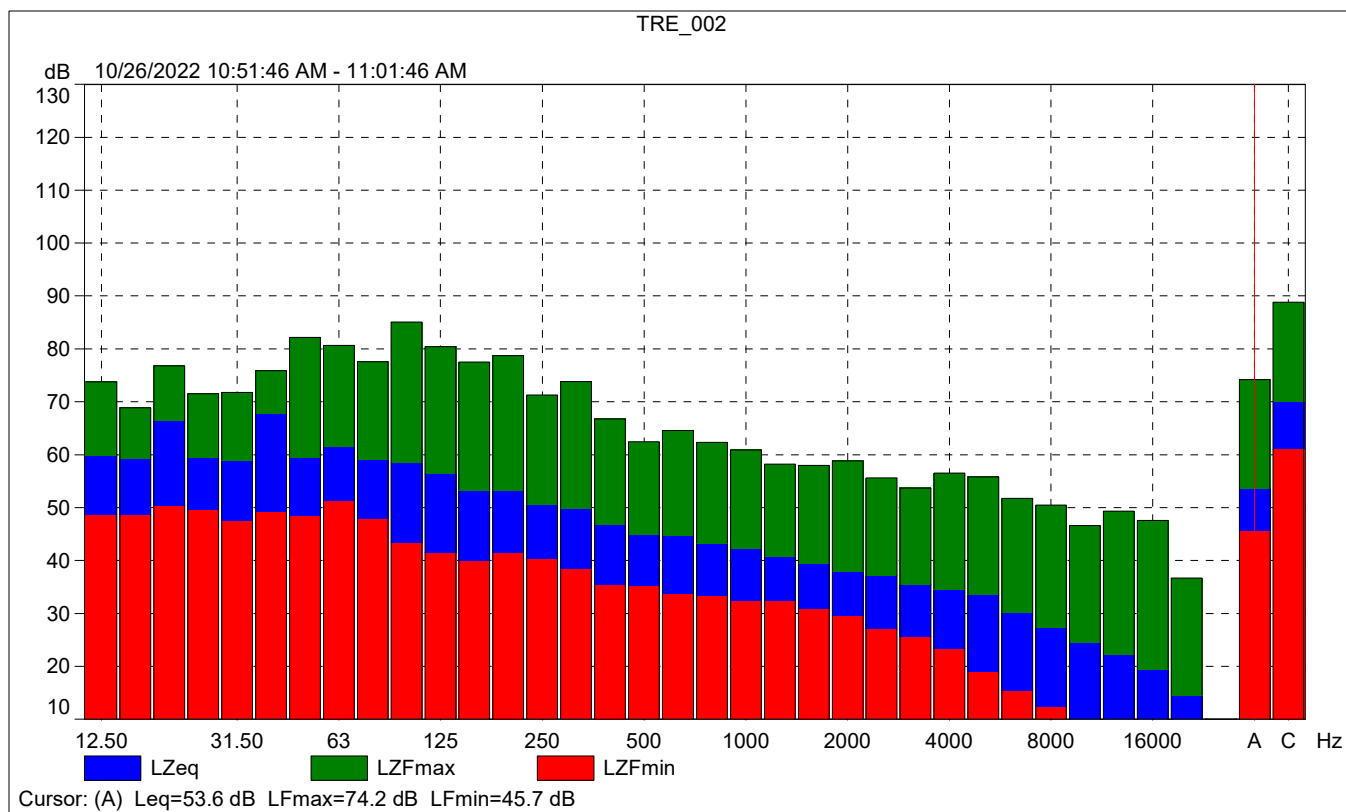
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

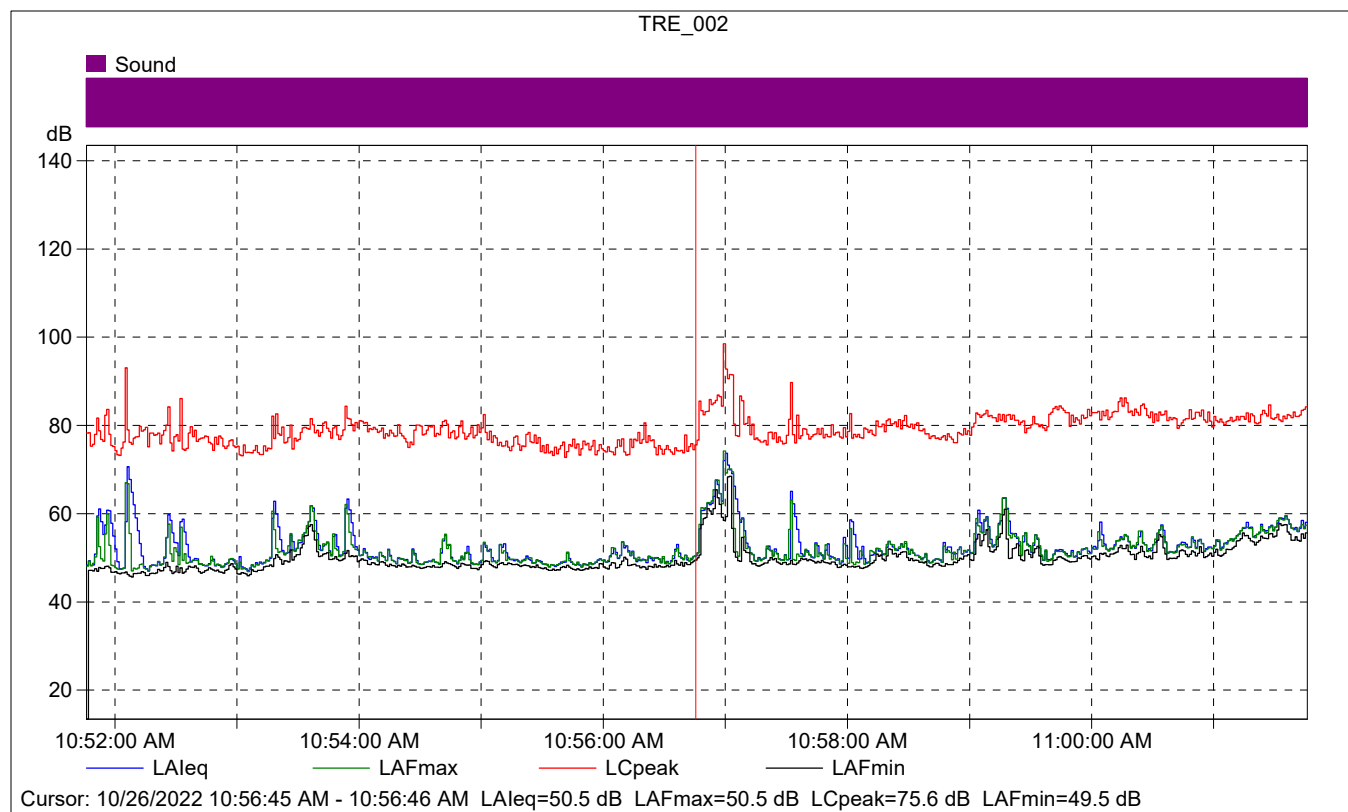
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		10/19/2022 07:11:45
Calibration Type:		External reference
Sensitivity:		43.3151684701443 mV/Pa

TRE_002

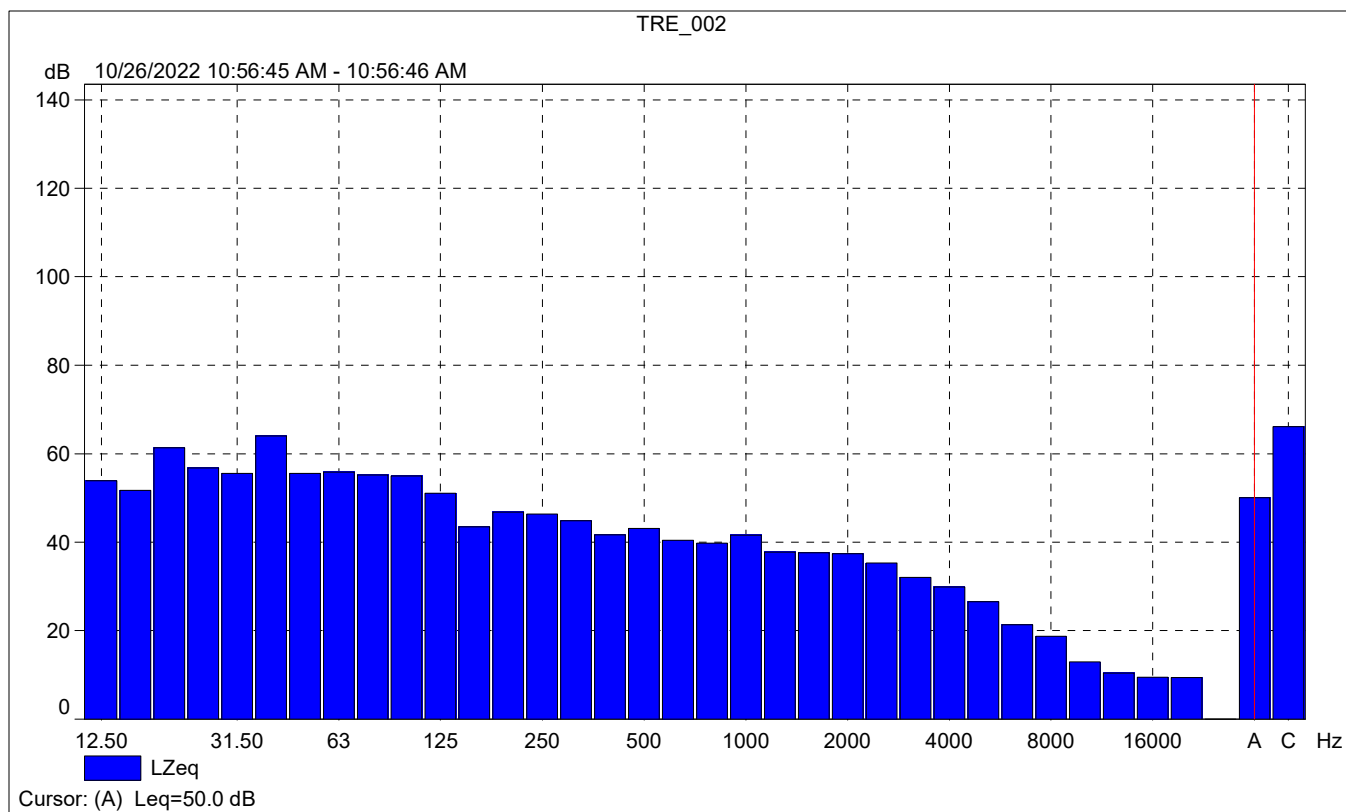
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	53.6	74.2	45.7
Time	10:51:46 AM	11:01:46 AM	0:10:00				
Date	10/26/2022	10/26/2022					





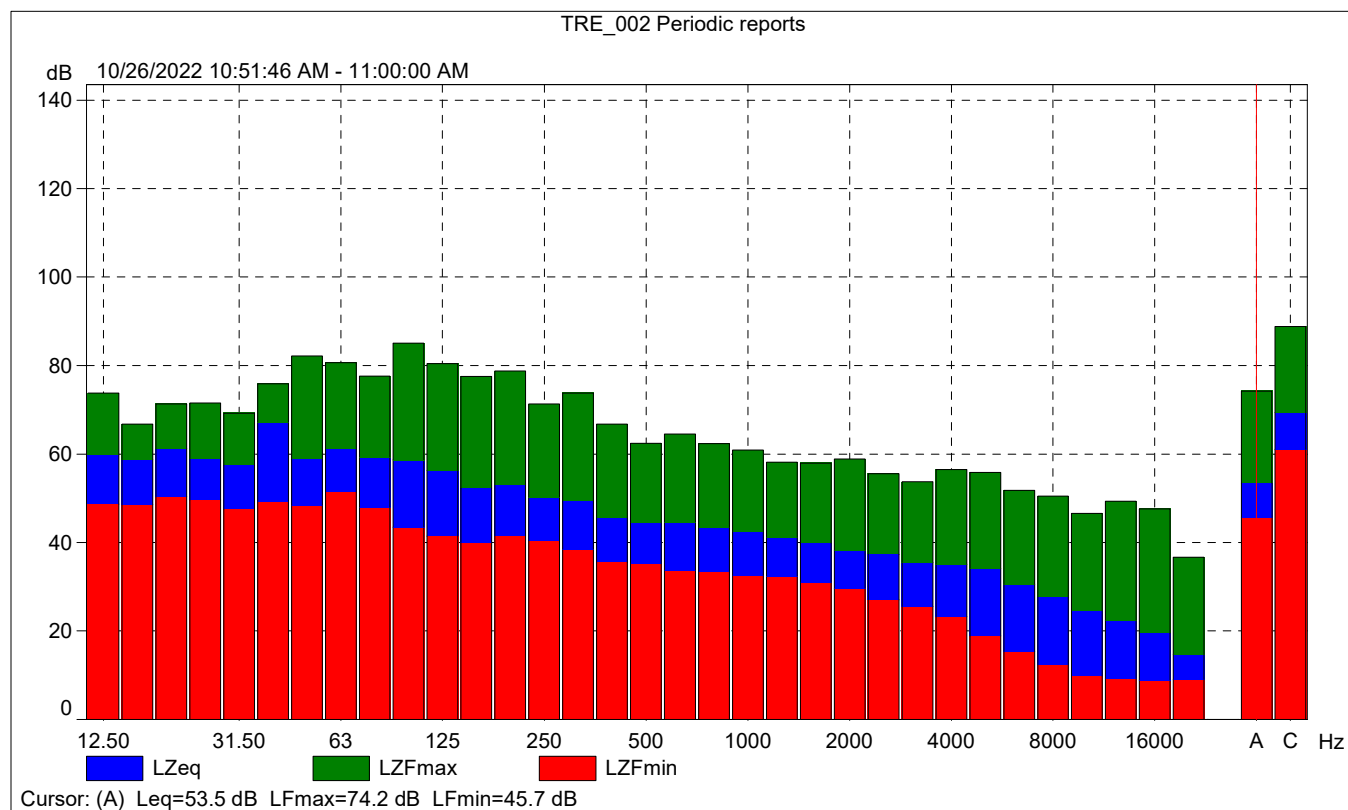
TRE_002

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			50.5	50.5	49.5
Time	10:56:45 AM	0:00:01			
Date	10/26/2022				

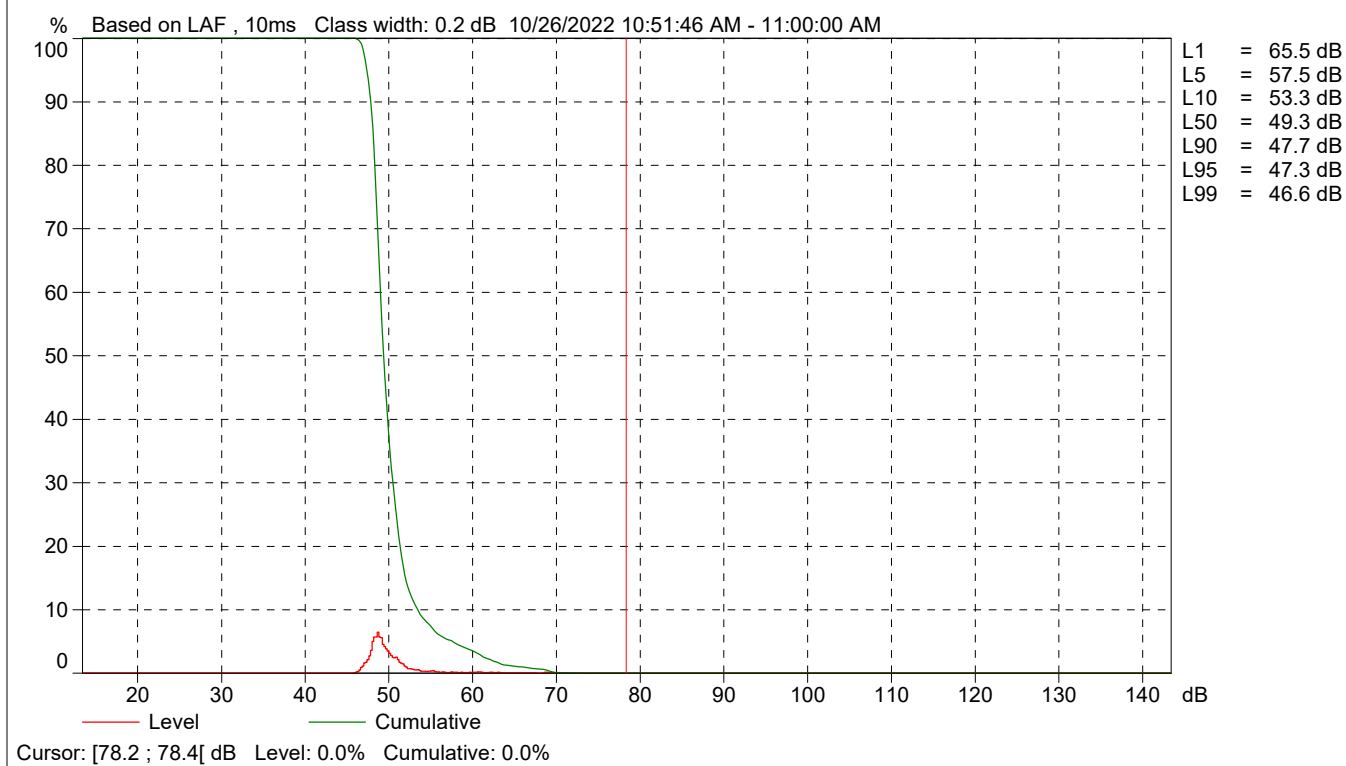


TRE_002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	56.6	74.2	45.7
Time	10:51:46 AM	0:08:14				
Date	10/26/2022					



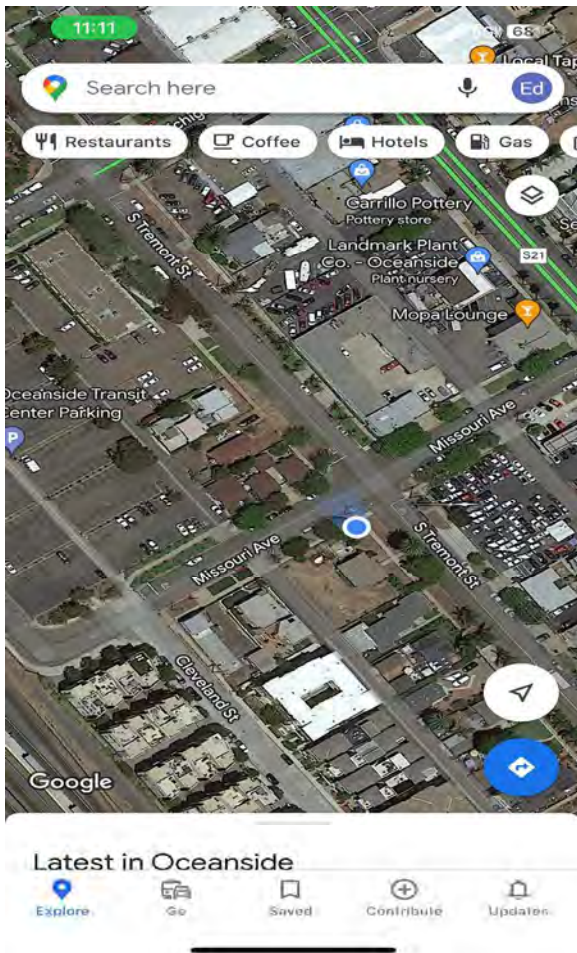
TRE_002 Periodic reports



Site Number: NM-3			
Recorded By: Eddie Torres			
Job Number: 190739			
Date: 10/26/22			
Time: 11:10 am			
Location: Corner of Missouri Avenue and Tremont Street			
Source of Peak Noise: Traffic Noise			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
55.2	73.4	38.8	94.3

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	03/10/2022	
	Microphone	Brüel & Kjær	4189	3086765	03/10/2022	
	Preamp	Brüel & Kjær	ZC 0032	25380	03/10/2022	
	Calibrator	Brüel & Kjær	4231	2545667	03/10/2022	
Weather Data						
Est.	Duration: 10 minutes			Sky: Clear		
	Note: dBA Offset = 0.0			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.3 mph		71.2		49.6	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		10/26/2022 11:07:55
End Time:		10/26/2022 11:17:55
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.18

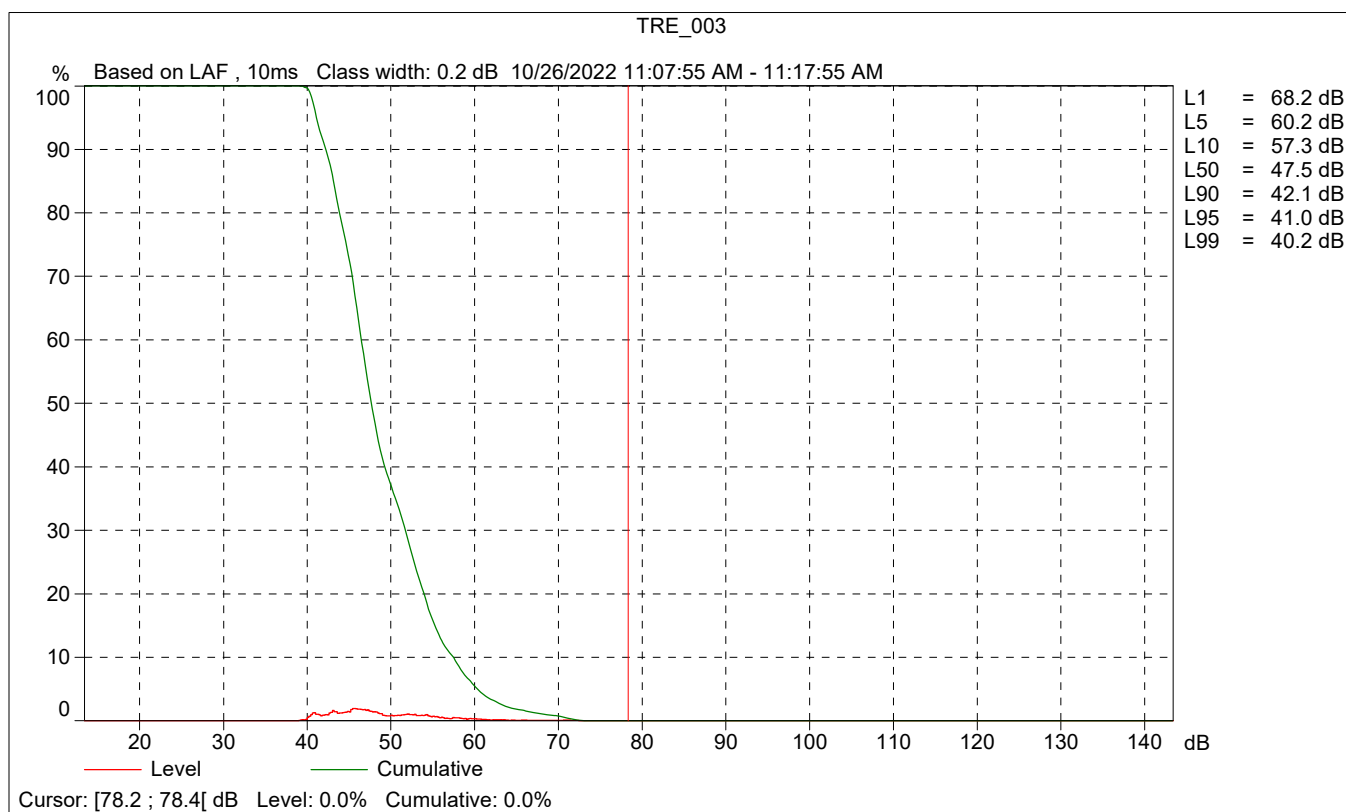
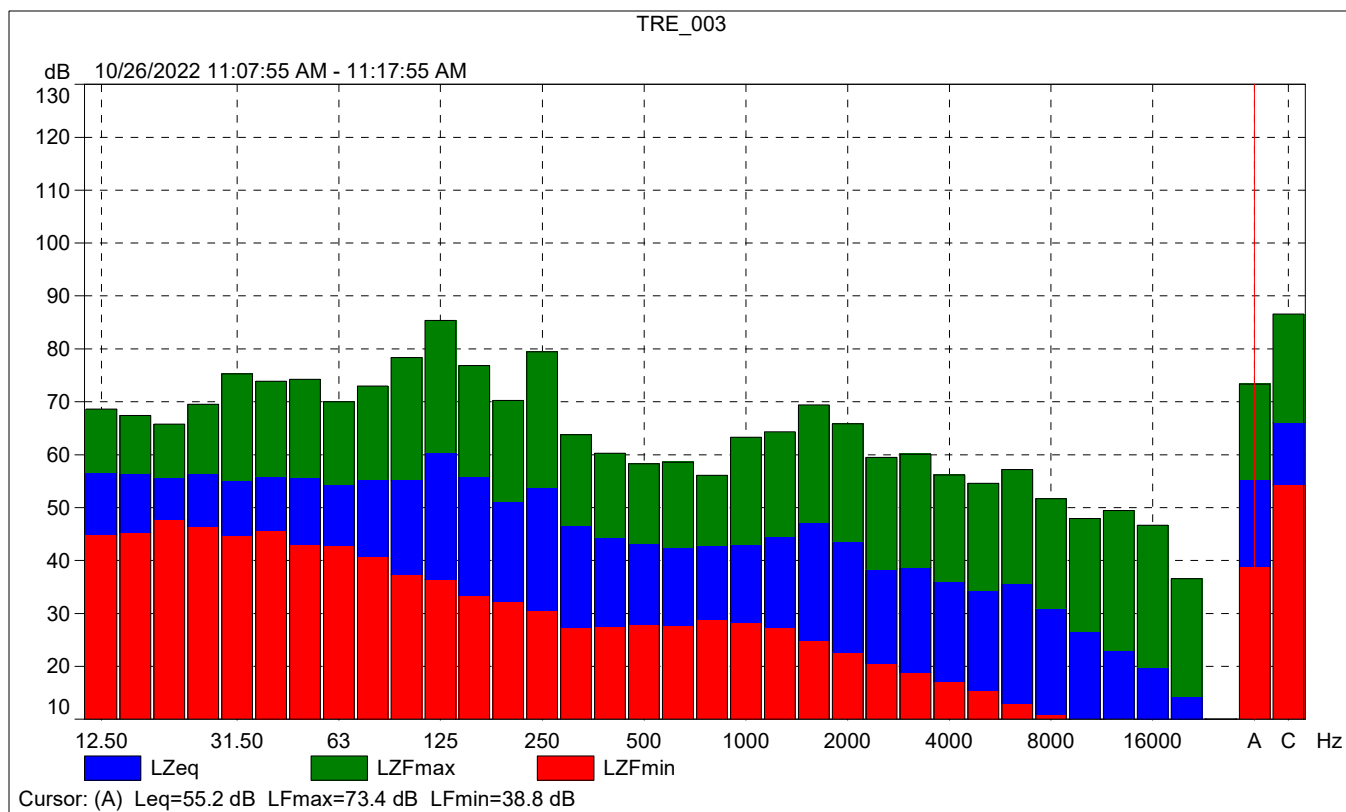
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

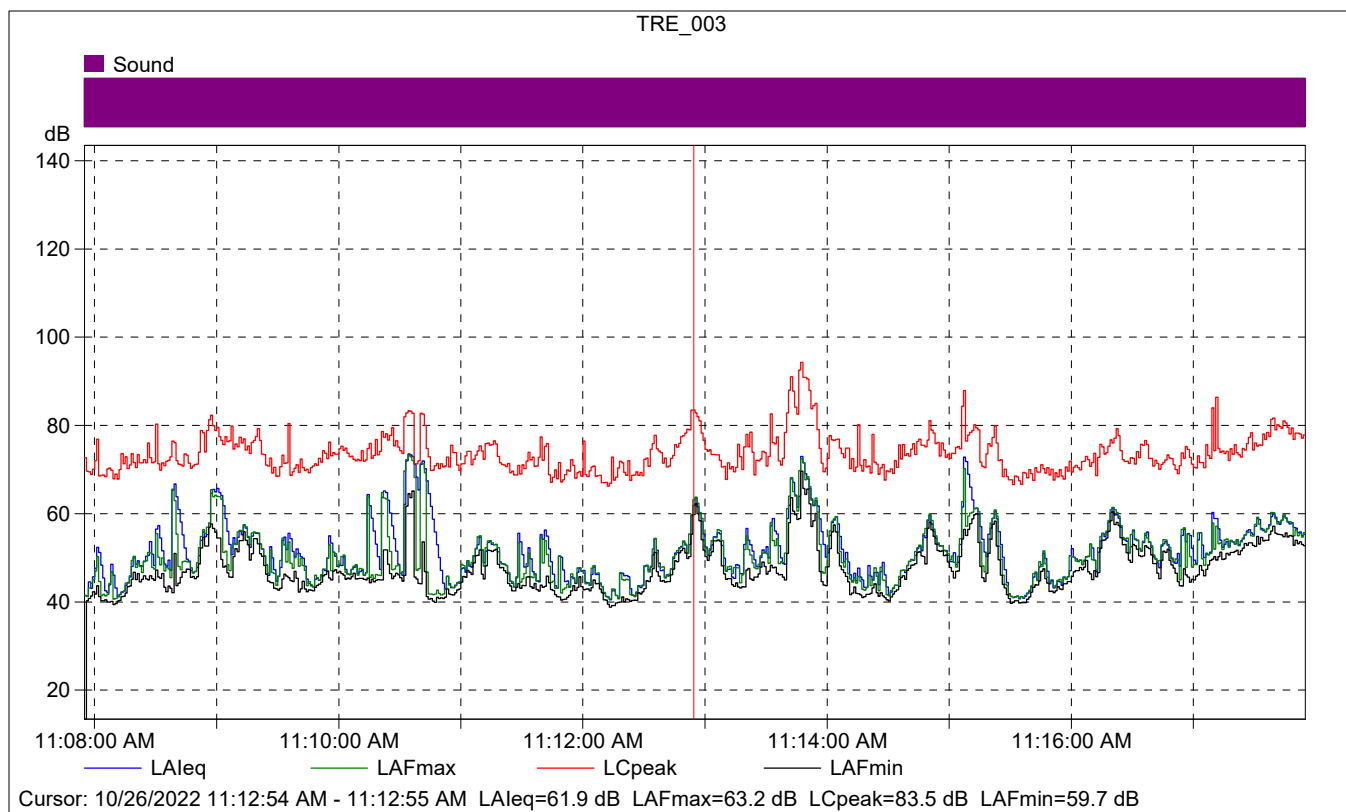
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		10/19/2022 07:11:45
Calibration Type:		External reference
Sensitivity:		43.3151684701443 mV/Pa

TRE_003

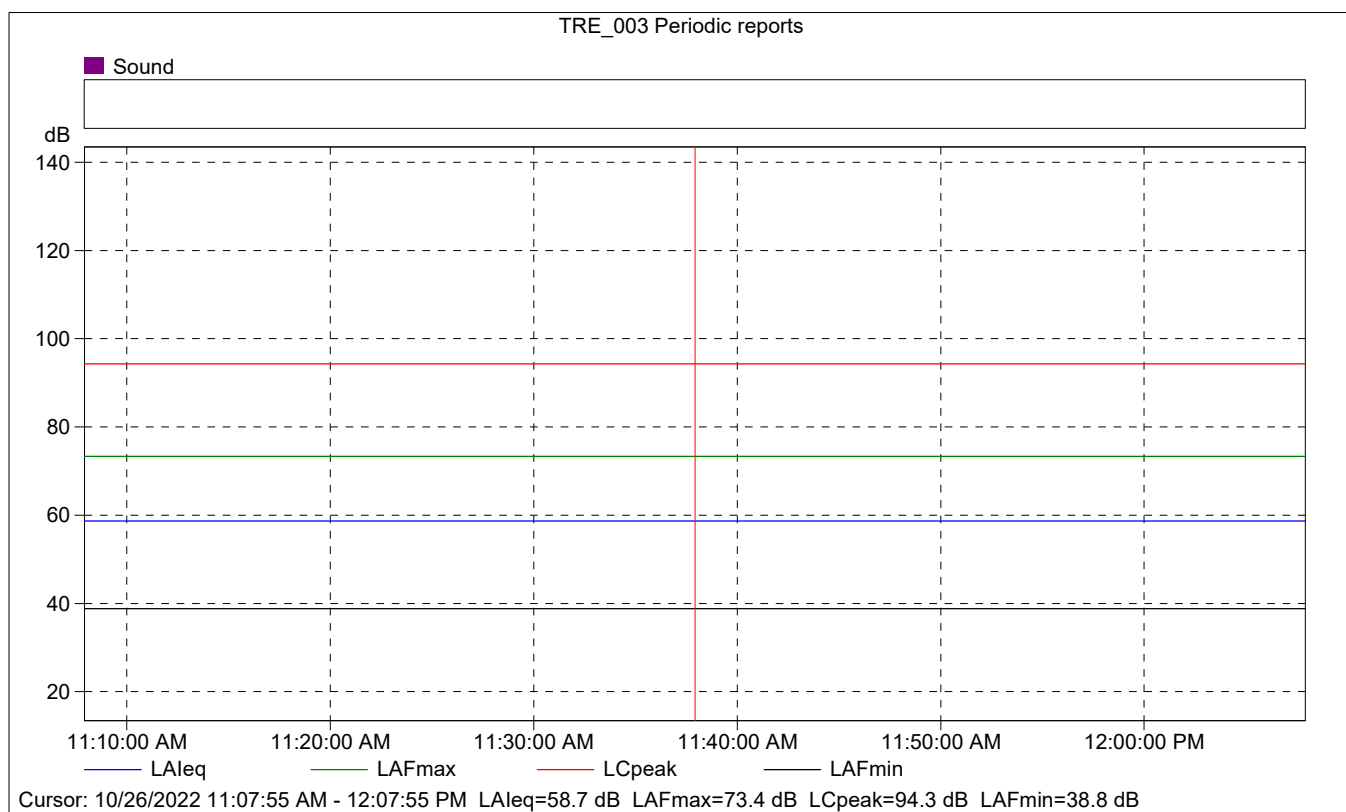
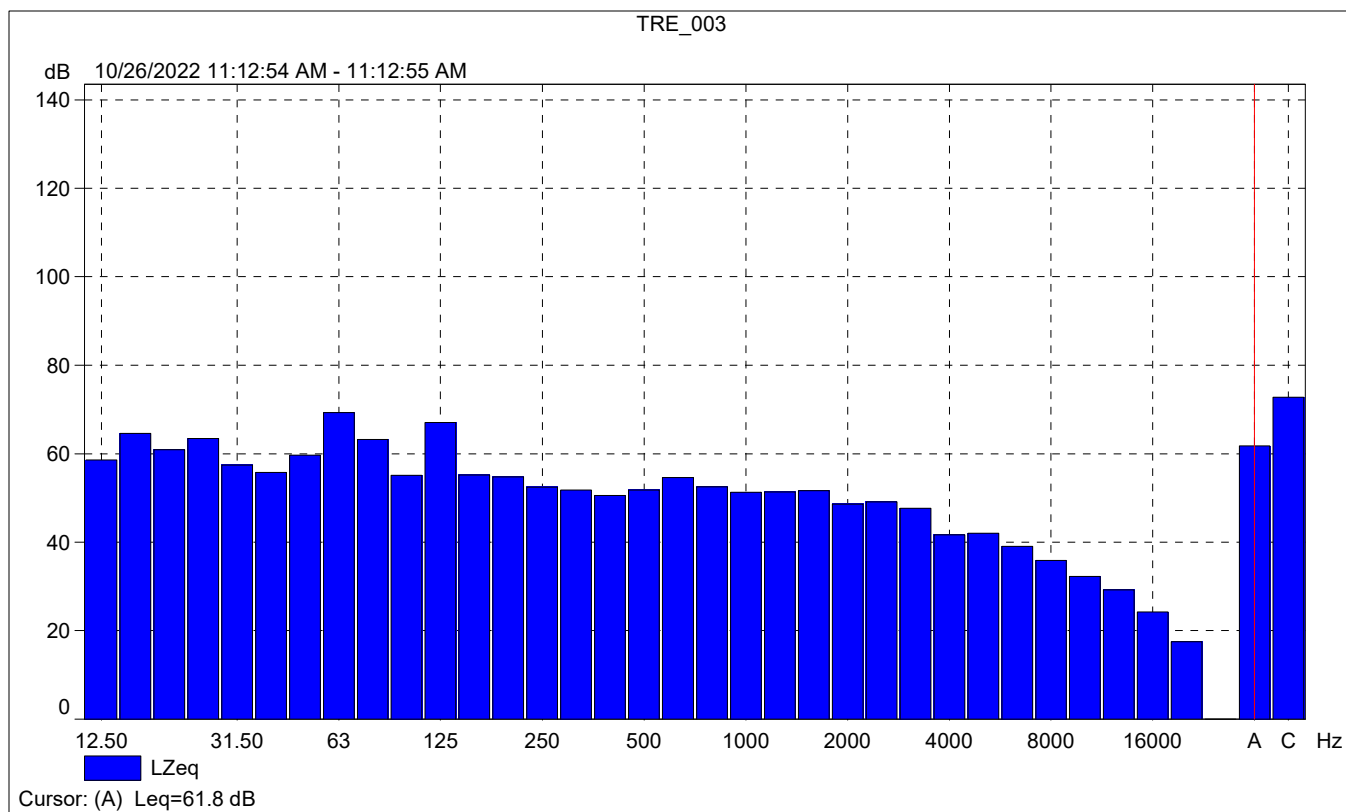
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	55.2	73.4	38.8
Time	11:07:55 AM	11:17:55 AM	0:10:00				
Date	10/26/2022	10/26/2022					





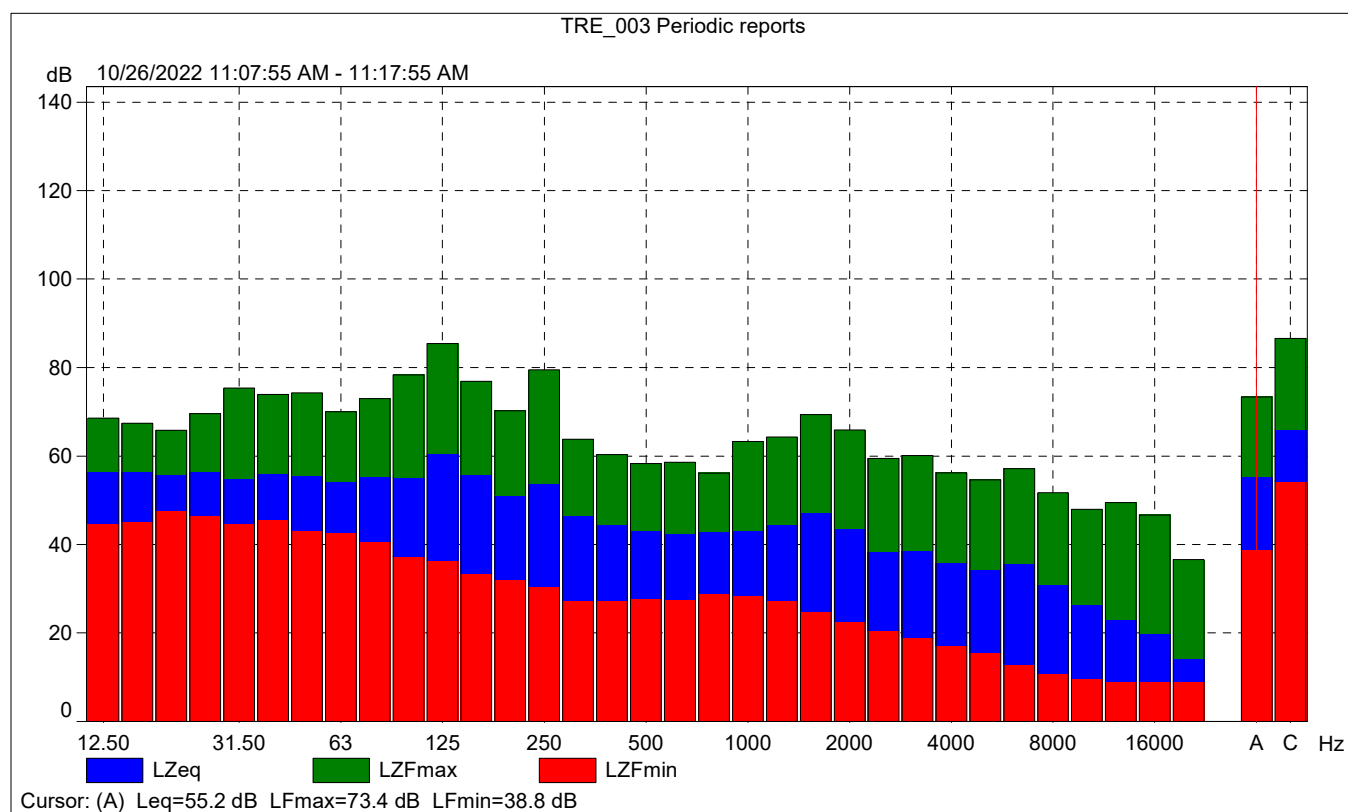
TRE_003

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			61.9	63.2	59.7
Time	11:12:54 AM	0:00:01			
Date	10/26/2022				

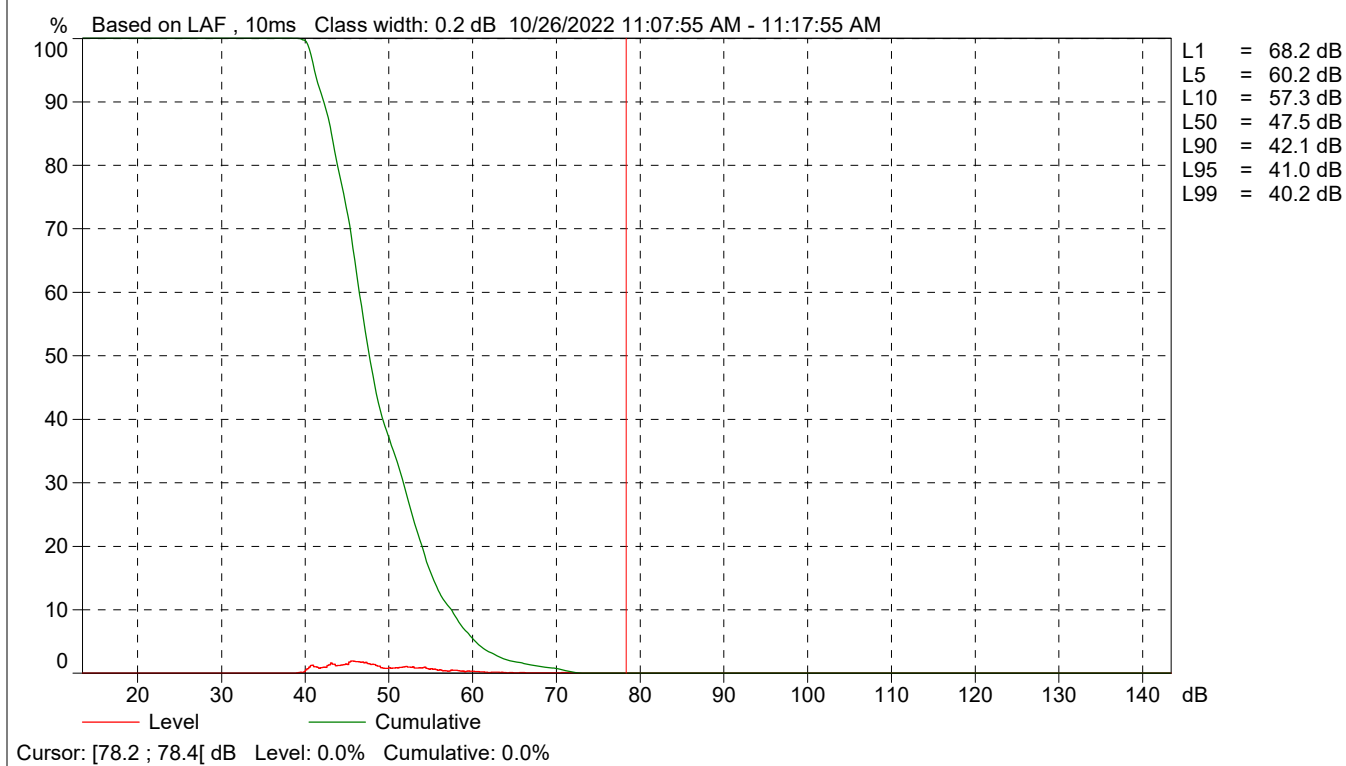


TRE_003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	58.7	73.4	38.8
Time	11:07:55 AM	0:10:00				
Date	10/26/2022					



TRE_003 Periodic reports





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		10/26/2022 11:30:20
End Time:		10/26/2022 11:40:20
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.18

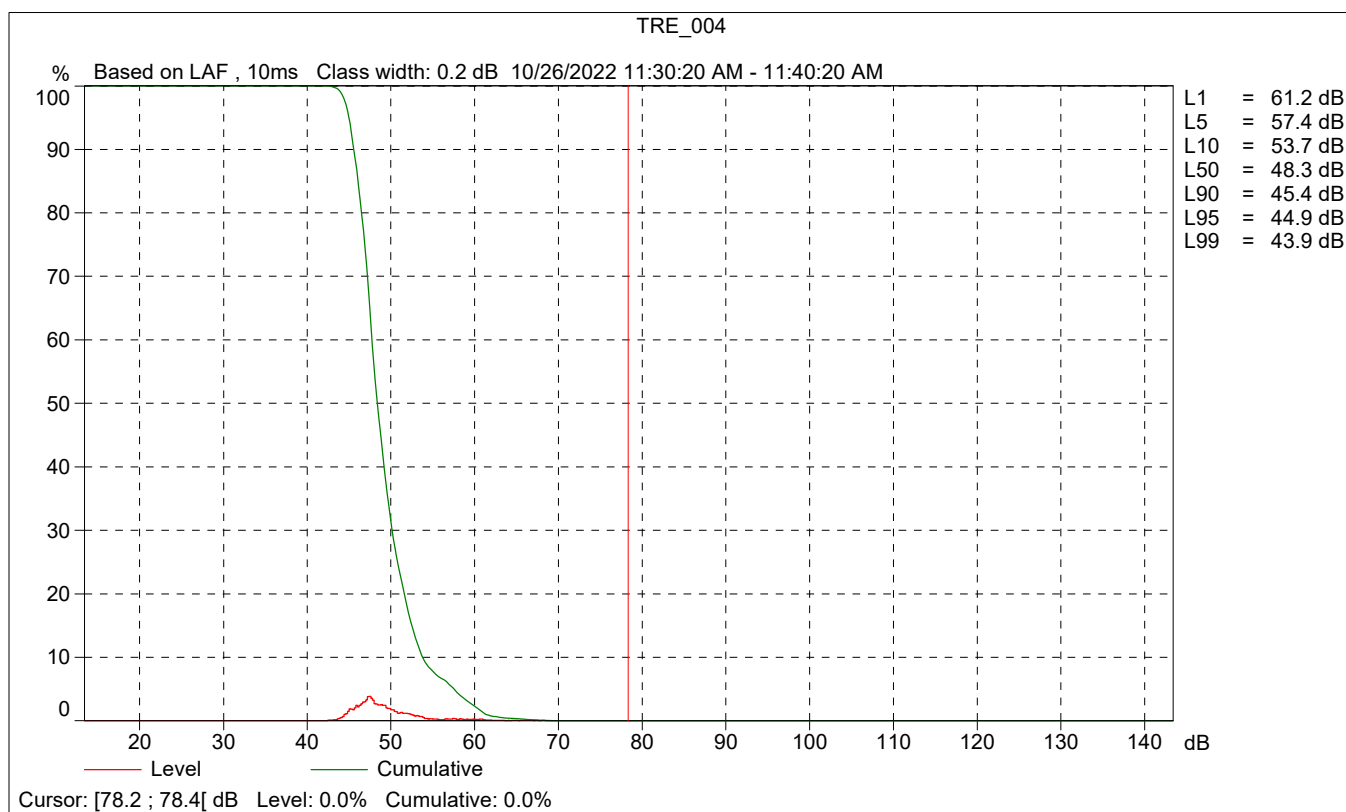
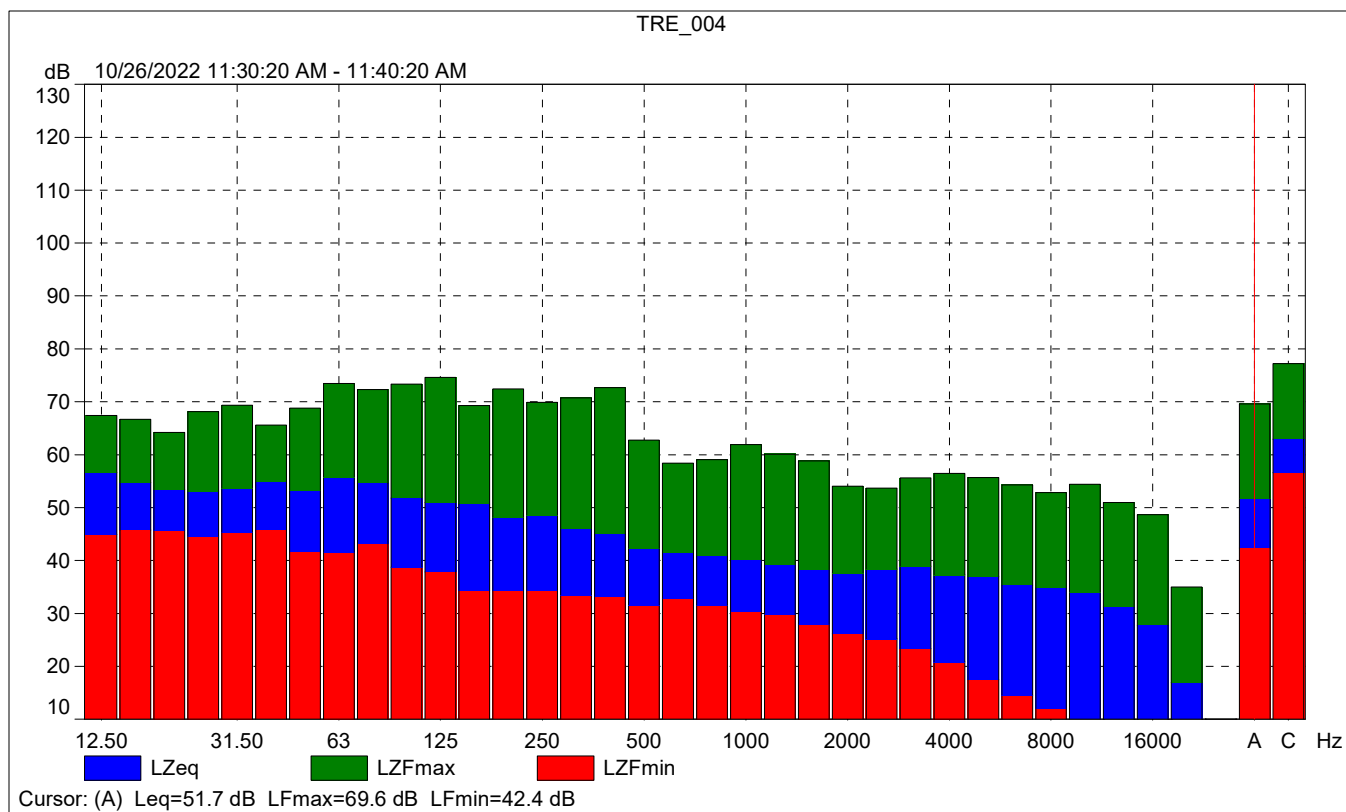
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

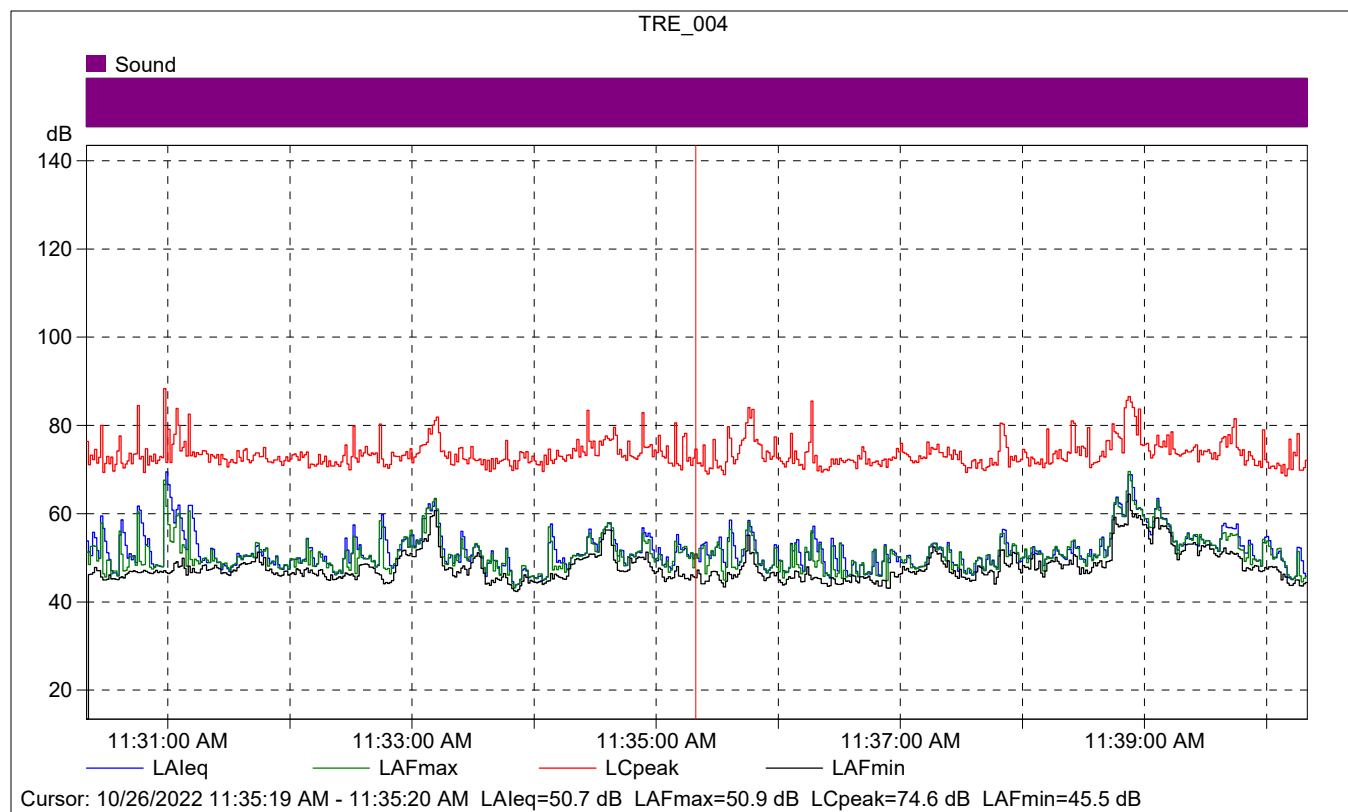
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		10/19/2022 07:11:45
Calibration Type:		External reference
Sensitivity:		43.3151684701443 mV/Pa

TRE_004

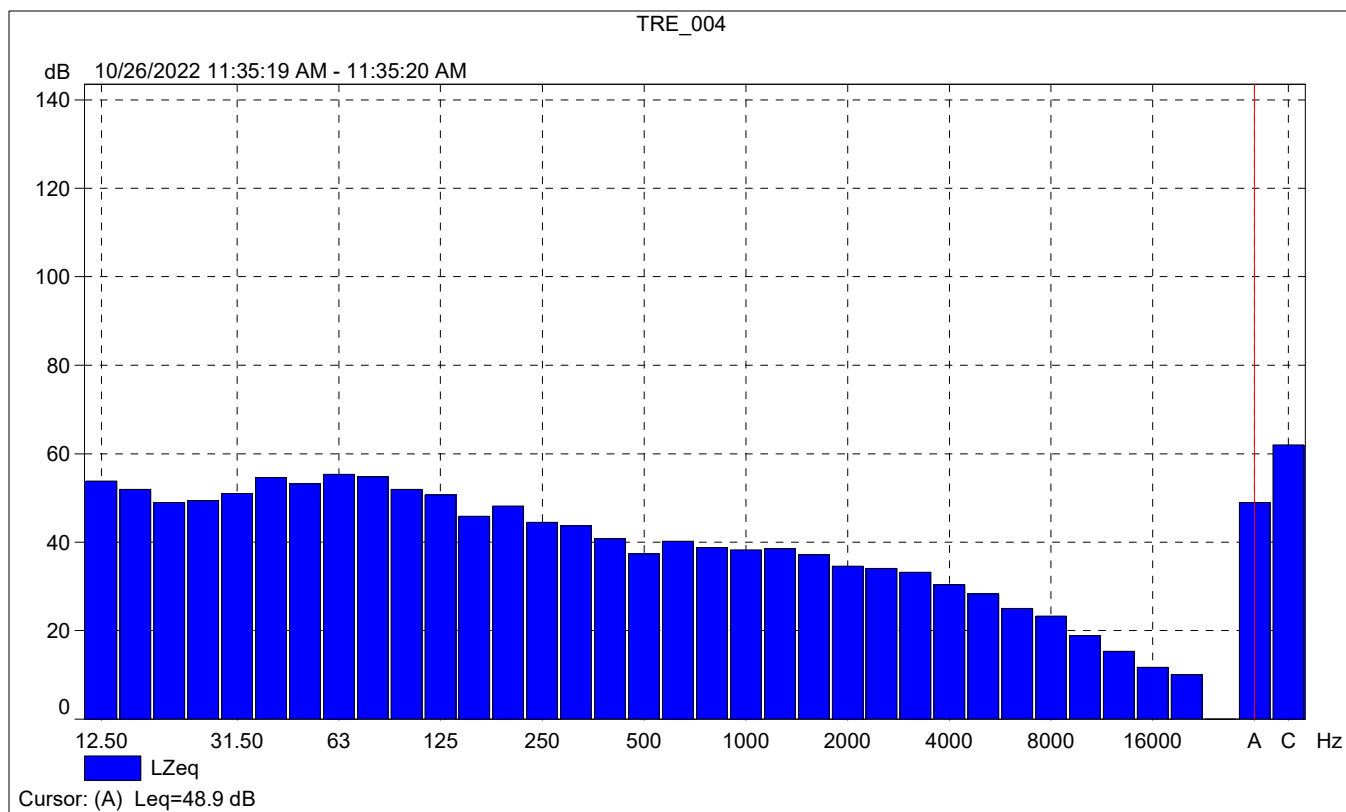
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	51.7	69.6	42.4
Time	11:30:20 AM	11:40:20 AM	0:10:00				
Date	10/26/2022	10/26/2022					





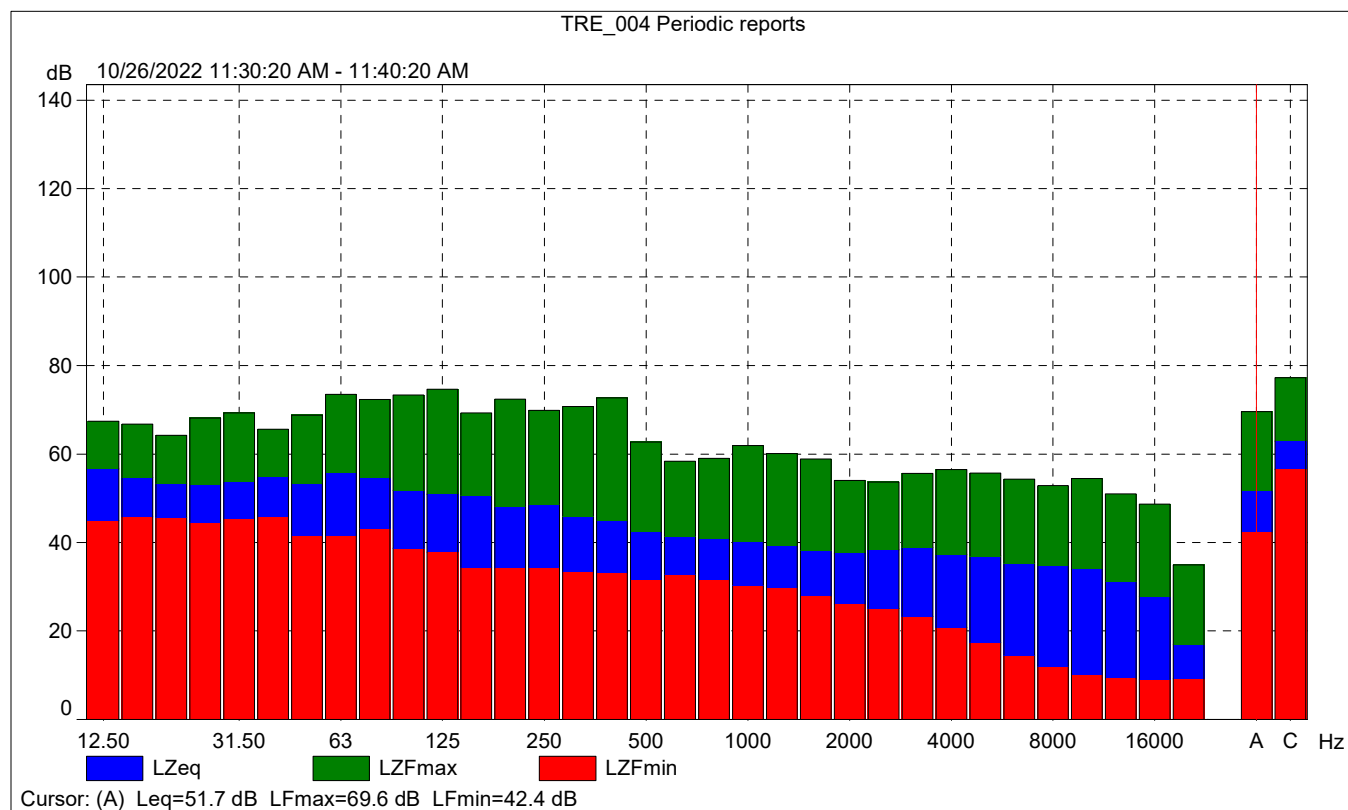
TRE_004

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			50.7	50.9	45.5
Time	11:35:19 AM	0:00:01			
Date	10/26/2022				

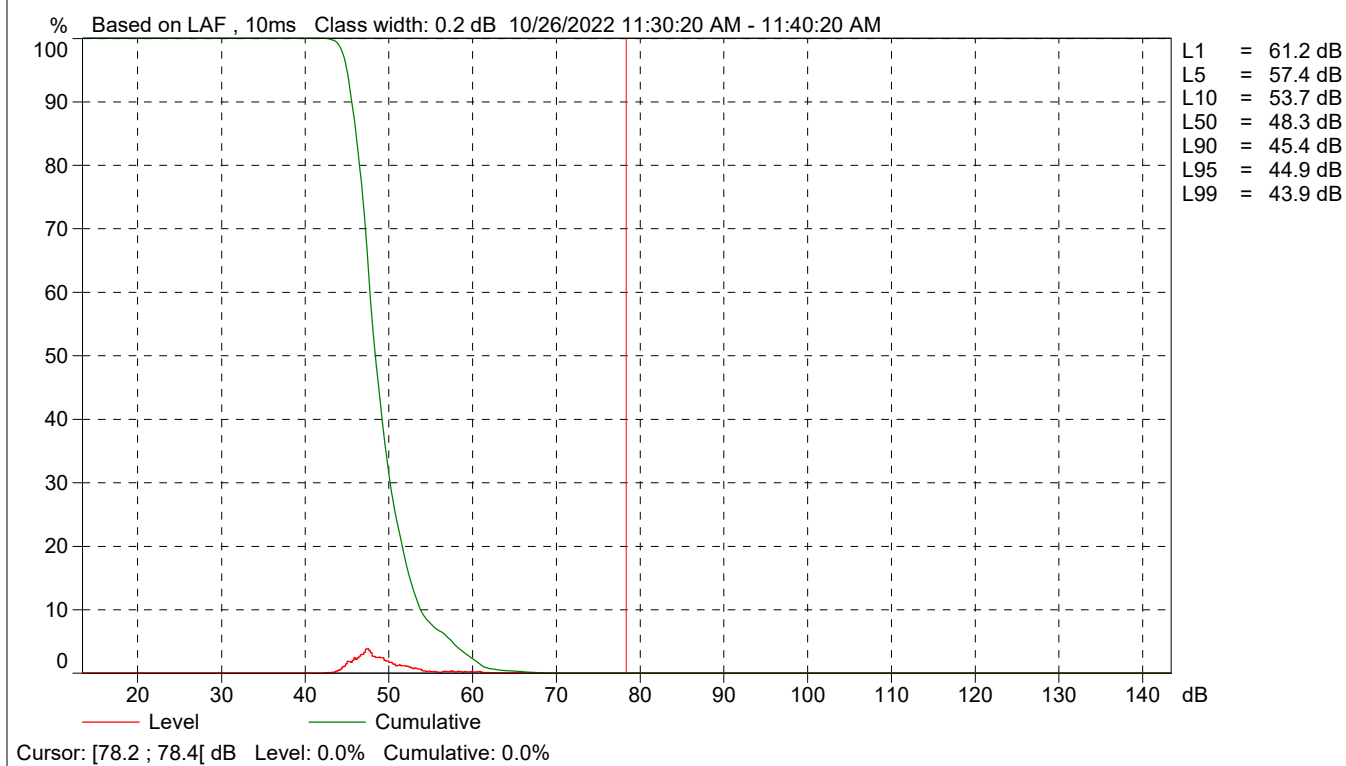


TRE_004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	54.7	69.6	42.4
Time	11:30:20 AM	0:10:00				
Date	10/26/2022					



TRE_004 Periodic reports



TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 190739
 Project Name: Tremont
 Scenario: Existing

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Stantec
 Community Noise Descriptor: L_{dn}: CNEL: X

Assumed 24-Hour Traffic Distribution:

	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition

Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		CNEL at 100 Feet	Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks		70 CNEL	65 CNEL	60 CNEL	55 CNEL		
Clementine Street Between Pier View and Mission Avenue	2	0	400	25	0.5	1.8%	0.7%	42.4	-	-	-	-	-	100
Nevada Street Between Pier View and Mission Avenue	2	0	500	25	0.5	1.8%	0.7%	43.3	-	-	-	-	-	100
Mission Avenue Between Home Street and Clementine Street	4	10	11,300	25	0.5	1.8%	0.7%	57.1	-	-	64	137	-	100
Mission Avenue Between Freeman Street and Coast Highway	2	0	5,600	25	0.5	1.8%	0.7%	53.8	-	-	39	84	-	100
Seagaze Drive Between Freeman Street and Coast Highway	2	0	3,600	25	0.5	1.8%	0.7%	51.9	-	-	-	62	-	100
Seagaze Drive Between Tremont Street and Cleveland Street	2	0	3,600	25	0.5	1.8%	0.7%	51.9	-	-	-	62	-	100
Coast Highway Between Topeka Street and Michigan Avenue	4	0	14,800	25	0.5	1.8%	0.7%	58.2	-	-	75	162	-	100
Tremont Street Between Seagaze Drive and Topeka Street	2	0	1,500	25	0.5	1.8%	0.7%	48.1	-	-	-	35	-	100
Tremont Street Between Michigan Avenue and Missouri Avenue	2	0	1,000	25	0.5	1.8%	0.7%	46.4	-	-	-	-	-	100
Topeka Street Between Tremont Street and Coast Highway	2	0	1,000	25	0.5	1.8%	0.7%	46.4	-	-	-	-	-	100
Michigan Avenue Between Tremont Street and Coast Highway	2	0	1,900	25	0.5	1.8%	0.7%	49.1	-	-	-	41	-	100
Missouri Avenue Between Tremont Street and Coast Highway	2	0	900	25	0.5	1.8%	0.7%	45.9	-	-	-	-	-	100
Cleveland Avenue Between Missouri Avenue and Washington Avenue	2	0	200	25	0.5	1.8%	0.7%	39.4	-	-	-	-	-	100
Seagaze Drive Between Coast Highway and Tremont Street	2	0	3,600	25	0.5	1.8%	0.7%	51.9	-	-	-	62	-	100

"-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 190739
 Project Name: Tremont
 Scenario: Existing + Tremont Site

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Stantec
 Community Noise Descriptor: L_{dn}: CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition

Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
Clementine Street Between Pier View and Mission Avenue	2	0	400	25	0.5	1.8%	0.7%	42.4	-	-	-	-	100
Nevada Street Between Pier View and Mission Avenue	2	0	500	25	0.5	1.8%	0.7%	43.3	-	-	-	-	100
Mission Avenue Between Home Street and Clementine Street	4	10	12,500	25	0.5	1.8%	0.7%	57.5	-	-	68	147	100
Mission Avenue Between Freeman Street and Coast Highway	2	0	6,260	25	0.5	1.8%	0.7%	54.3	-	-	42	90	100
Seagaze Drive Between Freeman Street and Coast Highway	2	0	4,260	25	0.5	1.8%	0.7%	52.7	-	-	32	70	100
Seagaze Drive Between Tremont Street and Cleveland Street	2	0	4,920	25	0.5	1.8%	0.7%	53.3	-	-	36	77	100
Coast Highway Between Topeka Street and Michigan Avenue	4	0	16,460	25	0.5	1.8%	0.7%	58.6	-	-	81	174	100
Tremont Street Between Seagaze Drive and Topeka Street	2	0	2,490	25	0.5	1.8%	0.7%	50.3	-	-	-	49	100
Tremont Street Between Michigan Avenue and Missouri Avenue	2	0	2,080	25	0.5	1.8%	0.7%	49.5	-	-	-	43	100
Topeka Street Between Tremont Street and Coast Highway	2	0	1,480	25	0.5	1.8%	0.7%	48.1	-	-	-	34	100
Michigan Avenue Between Tremont Street and Coast Highway	2	0	3,190	25	0.5	1.8%	0.7%	51.4	-	-	-	57	100
Missouri Avenue Between Tremont Street and Coast Highway	2	0	1,350	25	0.5	1.8%	0.7%	47.7	-	-	-	32	100
Cleveland Avenue Between Missouri Avenue and Washington Avenue	2	0	200	25	0.5	1.8%	0.7%	39.4	-	-	-	-	100
Seagaze Drive Between Coast Highway and Tremont Street	2	0	5,740	25	0.5	1.8%	0.7%	53.9	-	-	39	85	100

"-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 190739
Project Name: Tremont
Scenario: 2050 GP without Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Stantec
Community Noise Descriptor: L_{dn}: CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition	Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
							Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
	Clementine Street Between Pier View and Mission Avenue	2	0	750	25	0.5	1.8%	0.7%	45.1	-	-	-	-	100
	Nevada Street Between Pier View and Mission Avenue	2	0	760	25	0.5	1.8%	0.7%	45.2	-	-	-	-	100
	Mission Avenue Between Home Street and Clementine Street	4	10	11,700	25	0.5	1.8%	0.7%	57.2	-	-	65	140	100
	Mission Avenue Between Freeman Street and Coast Highway	2	0	6,440	25	0.5	1.8%	0.7%	54.4	-	-	43	92	100
	Seagaze Drive Between Freeman Street and Coast Highway	2	0	4,330	25	0.5	1.8%	0.7%	52.7	-	-	33	70	100
	Seagaze Drive Between Tremont Street and Cleveland Street	2	0	4,600	25	0.5	1.8%	0.7%	53.0	-	-	34	73	100
	Coast Highway Between Topeka Street and Michigan Avenue	4	0	17,650	25	0.5	1.8%	0.7%	58.9	-	-	85	183	100
	Tremont Street Between Seagaze Drive and Topeka Street	2	0	1,800	25	0.5	1.8%	0.7%	48.9	-	-	-	39	100
	Tremont Street Between Michigan Avenue and Missouri Avenue	2	0	1,200	25	0.5	1.8%	0.7%	47.1	-	-	-	-	100
	Topeka Street Between Tremont Street and Coast Highway	2	0	1,210	25	0.5	1.8%	0.7%	47.2	-	-	-	-	100
	Michigan Avenue Between Tremont Street and Coast Highway	2	0	2,310	25	0.5	1.8%	0.7%	50.0	-	-	-	46	100
	Missouri Avenue Between Tremont Street and Coast Highway	2	0	1,100	25	0.5	1.8%	0.7%	46.8	-	-	-	-	100
	Cleveland Avenue Between Missouri Avenue and Washington Avenue	2	0	200	25	0.5	1.8%	0.7%	39.4	-	-	-	-	100
	Seagaze Drive Between Coast Highway and Tremont Street	2	0	5,000	25	0.5	1.8%	0.7%	53.3	-	-	36	78	100

"-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 190739
Project Name: Tremont
Scenario: 2050 GP with Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Stantec
Community Noise Descriptor: L_{dn}: CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition

Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
Clementine Street Between Pier View and Mission Avenue	2	0	750	25	0.5	1.8%	0.7%	45.1	-	-	-	-	100
Nevada Street Between Pier View and Mission Avenue	2	0	760	25	0.5	1.8%	0.7%	45.2	-	-	-	-	100
Mission Avenue Between Home Street and Clementine Street	4	10	12,900	25	0.5	1.8%	0.7%	57.6	-	-	69	150	100
Mission Avenue Between Freeman Street and Coast Highway	2	0	7,100	25	0.5	1.8%	0.7%	54.9	-	-	45	98	100
Seagaze Drive Between Freeman Street and Coast Highway	2	0	7,990	25	0.5	1.8%	0.7%	55.4	-	-	49	106	100
Seagaze Drive Between Tremont Street and Cleveland Street	2	0	5,920	25	0.5	1.8%	0.7%	54.1	-	-	40	87	100
Coast Highway Between Topeka Street and Michigan Avenue	4	0	19,310	25	0.5	1.8%	0.7%	59.3	-	-	90	194	100
Tremont Street Between Seagaze Drive and Topeka Street	2	0	2,790	25	0.5	1.8%	0.7%	50.8	-	-	-	53	100
Tremont Street Between Michigan Avenue and Missouri Avenue	2	0	2,280	25	0.5	1.8%	0.7%	49.9	-	-	-	46	100
Topeka Street Between Tremont Street and Coast Highway	2	0	1,690	25	0.5	1.8%	0.7%	48.6	-	-	-	38	100
Michigan Avenue Between Tremont Street and Coast Highway	2	0	3,600	25	0.5	1.8%	0.7%	51.9	-	-	-	62	100
Missouri Avenue Between Tremont Street and Coast Highway	2	0	1,550	25	0.5	1.8%	0.7%	48.3	-	-	-	36	100
Cleveland Avenue Between Missouri Avenue and Washington Avenue	2	0	200	25	0.5	1.8%	0.7%	39.4	-	-	-	-	100
Seagaze Drive Between Coast Highway and Tremont Street	2	0	7,140	25	0.5	1.8%	0.7%	54.9	-	-	46	98	100

"-" = contour is located within the roadway right-of-way.