



I. Noise and Vibration Analysis

This page intentionally left blank.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 1

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Demolition	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	380	0
Excavator	No	40		80.7	380	0
Excavator	No	40		80.7	380	0
Excavator	No	40		80.7	380	0
Dozer	No	40		81.7	380	0
Dozer	No	40		81.7	380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Saw	72	65
Excavator	63.1	59.1
Excavator	63.1	59.1
Excavator	63.1	59.1
Dozer	64.1	60.1
Dozer	64.1	60.1
Total	72	68.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 1

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Grading	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	380	0
Grader	No	40	85		380	0
Dozer	No	40		81.7	380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	63.1	59.1
Grader	67.4	63.4
Dozer	64.1	60.1
Tractor	66.4	62.4
Tractor	66.4	62.4
Tractor	66.4	62.4
Total	67.4	69.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 1

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Building Construction	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	380	0
Pickup Truck	No	40		75	380	0
Pickup Truck	No	40		75	380	0
Pickup Truck	No	40		75	380	0
Generator	No	50		80.6	380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Welder / Torch	No	40		74	380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	62.9	55
Pickup Truck	57.4	53.4
Pickup Truck	57.4	53.4
Pickup Truck	57.4	53.4
Generator	63	60
Tractor	66.4	62.4
Tractor	66.4	62.4
Tractor	66.4	62.4
Welder / Torch	56.4	52.4
Total	66.4	68.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 1

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Paving	Residential	85	85	80

Description	Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40	78.8	380	0	
Concrete Mixer Truck	No	40	78.8	380	0	
Paver	No	50	77.2	380	0	
Roller	No	20	80	380	0	
Roller	No	20	80	380	0	
Roller	No	20	80	380	0	
Roller	No	20	80	380	0	

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	61.2	57.2
Concrete Mixer Truck	61.2	57.2
Paver	59.6	56.6
Roller	62.4	55.4
Roller	62.4	55.4
Roller	62.4	55.4
Roller	62.4	55.4
Total	62.4	64.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 1

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Architectural Coating	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	380	0

Results

Equipment		Calculated (dBA)	
		*Lmax	Leq
Compressor (air)		60.1	56.1
	Total	60.1	56.1

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 2

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Demolition	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	380	0
Excavator	No	40		80.7	380	0
Excavator	No	40		80.7	380	0
Excavator	No	40		80.7	380	0
Dozer	No	40		81.7	380	0
Dozer	No	40		81.7	380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Saw	72	65
Excavator	63.1	59.1
Excavator	63.1	59.1
Excavator	63.1	59.1
Dozer	64.1	60.1
Dozer	64.1	60.1
Total	72	68.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 2

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Grading	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	380	0
Grader	No	40	85		380	0
Dozer	No	40		81.7	380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	63.1	59.1
Grader	67.4	63.4
Dozer	64.1	60.1
Tractor	66.4	62.4
Tractor	66.4	62.4
Tractor	66.4	62.4
Total	67.4	69.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 2

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Building Construction	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	380	0
Pickup Truck	No	40		75	380	0
Pickup Truck	No	40		75	380	0
Pickup Truck	No	40		75	380	0
Generator	No	50		80.6	380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Welder / Torch	No	40		74	380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	62.9	55
Pickup Truck	57.4	53.4
Pickup Truck	57.4	53.4
Pickup Truck	57.4	53.4
Generator	63	60
Tractor	66.4	62.4
Tractor	66.4	62.4
Tractor	66.4	62.4
Welder / Torch	56.4	52.4
Total	66.4	68.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 2

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Paving	Residential	85	85	80

Description	Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40	78.8	380	0	
Concrete Mixer Truck	No	40	78.8	380	0	
Paver	No	50	77.2	380	0	
Roller	No	20	80	380	0	
Roller	No	20	80	380	0	
Roller	No	20	80	380	0	
Roller	No	20	80	380	0	

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	61.2	57.2
Concrete Mixer Truck	61.2	57.2
Paver	59.6	56.6
Roller	62.4	55.4
Roller	62.4	55.4
Roller	62.4	55.4
Roller	62.4	55.4
Total	62.4	64.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 2

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Architectural Coating	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	380	0

Results

Equipment		Calculated (dBA)	
		*Lmax	Leq
Compressor (air)		60.1	56.1
	Total	60.1	56.1

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 3

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Demolition	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	380	0
Excavator	No	40		80.7	380	0
Excavator	No	40		80.7	380	0
Excavator	No	40		80.7	380	0
Dozer	No	40		81.7	380	0
Dozer	No	40		81.7	380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Saw	72	65
Excavator	63.1	59.1
Excavator	63.1	59.1
Excavator	63.1	59.1
Dozer	64.1	60.1
Dozer	64.1	60.1
Total	72	68.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 3

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Grading	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	380	0
Grader	No	40	85		380	0
Dozer	No	40		81.7	380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	63.1	59.1
Grader	67.4	63.4
Dozer	64.1	60.1
Tractor	66.4	62.4
Tractor	66.4	62.4
Tractor	66.4	62.4
Total	67.4	69.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 3

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Building Construction	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	380	0
Pickup Truck	No	40		75	380	0
Pickup Truck	No	40		75	380	0
Pickup Truck	No	40		75	380	0
Generator	No	50		80.6	380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Tractor	No	40	84		380	0
Welder / Torch	No	40		74	380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	62.9	55
Pickup Truck	57.4	53.4
Pickup Truck	57.4	53.4
Pickup Truck	57.4	53.4
Generator	63	60
Tractor	66.4	62.4
Tractor	66.4	62.4
Tractor	66.4	62.4
Welder / Torch	56.4	52.4
Total	66.4	68.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 3

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Paving	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	380	0
Concrete Mixer Truck	No	40		78.8	380	0
Paver	No	50		77.2	380	0
Roller	No	20		80	380	0
Roller	No	20		80	380	0
Roller	No	20		80	380	0
Roller	No	20		80	380	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	61.2	57.2
Concrete Mixer Truck	61.2	57.2
Paver	59.6	56.6
Roller	62.4	55.4
Roller	62.4	55.4
Roller	62.4	55.4
Roller	62.4	55.4
Total	62.4	64.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/31/2024
 Case Description: Costa Mesa Hive Live: Phase 3

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Architectural Coating	Residential	85	85	80

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	380	0

Results

Equipment		Calculated (dBA)	
		*Lmax	Leq
Compressor (air)		60.1	56.1
	Total	60.1	56.1

*Calculated Lmax is the Loudest value.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 200230
 Project Name: Costa Mesa Hive Live
 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: Michael Baker International
 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				
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
A. Sunflower Avenue, between Harbor Boulevard and Susan Street	4	10	7,534	40	0.5	1.8%	0.7%	59.1	-	-	87	188
B. Sunflower Avenue, between Susan Street and Fairview Road	4	10	8,831	40	0.5	1.8%	0.7%	59.8	-	-	97	209
C. Harbor Boulevard, between Sunflower Avenue and South Coast Drive	6	25	29,963	40	0.5	1.8%	0.7%	65.6	-	109	235	507
D. Susan Street, between Sunflower Avenue and South Coast Drive	4	15	4,645	35	0.5	1.8%	0.7%	55.7	-	-	52	112
E. Fairview Road, between Sunflower Avenue and South Coast Drive	6	23	28,414	40	0.5	1.8%	0.7%	65.3	-	105	226	487
F. South Coast Drive, between Hyland Avenue and Harbor Boulevard	4	0	10,631	45	0.5	1.8%	0.7%	61.7	-	61	130	281
G. South Coast Drive, between Harbor Boulevard and Susan Street	4	18	8,091	45	0.5	1.8%	0.7%	60.7	-	-	111	239
H. South Coast Drive, between Susan Street and Fairview Road	6	15	6,569	45	0.5	1.8%	0.7%	60.0	-	-	100	216
I. Harbor Boulevard, between I-405 NB Ramps and I-405 SB Ramps	6	10	27,283	40	0.5	1.8%	0.7%	64.9	-	99	214	460

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

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 200230
Project Name: Costa Mesa Hive Live
Scenario: Existing+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: Michael Baker International
 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				
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
A. Sunflower Avenue, between Harbor Boulevard and Susan Street	4	10	7,842	40	0.5	1.8%	0.7%	59.3	-	-	90	193
B. Sunflower Avenue, between Susan Street and Fairview Road	4	10	9,324	40	0.5	1.8%	0.7%	60.0	-	-	100	216
C. Harbor Boulevard, between Sunflower Avenue and South Coast Drive	6	25	29,963	40	0.5	1.8%	0.7%	65.6	-	109	235	507
D. Susan Street, between Sunflower Avenue and South Coast Drive	4	15	7,346	35	0.5	1.8%	0.7%	57.7	-	-	71	152
E. Fairview Road, between Sunflower Avenue and South Coast Drive	6	23	28,414	40	0.5	1.8%	0.7%	65.3	-	105	226	487
F. South Coast Drive, between Hyland Avenue and Harbor Boulevard	4	0	11,016	45	0.5	1.8%	0.7%	61.9	-	62	134	288
G. South Coast Drive, between Harbor Boulevard and Susan Street	4	18	9,385	45	0.5	1.8%	0.7%	61.3	-	57	123	264
H. South Coast Drive, between Susan Street and Fairview Road	6	15	7,170	45	0.5	1.8%	0.7%	60.4	-	-	106	229
I. Harbor Boulevard, between I-405 NB Ramps and I-405 SB Ramps	6	10	28,038	40	0.5	1.8%	0.7%	65.1	-	101	218	469

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

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 200230
 Project Name: Costa Mesa Hive Live
 Scenario: Future 2050

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Source of Traffic Volumes: Michael Baker International
 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				
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
A. Sunflower Avenue, between Harbor Boulevard and Susan Street	4	10	10,118	40	0.5	1.8%	0.7%	60.4	-	49	106	229
B. Sunflower Avenue, between Susan Street and Fairview Road	4	10	11,658	40	0.5	1.8%	0.7%	61.0	-	54	117	251
C. Harbor Boulevard, between Sunflower Avenue and South Coast Drive	6	25	40,203	40	0.5	1.8%	0.7%	66.9	-	133	286	617
D. Susan Street, between Sunflower Avenue and South Coast Drive	4	15	8,857	35	0.5	1.8%	0.7%	58.5	-	-	80	172
E. Fairview Road, between Sunflower Avenue and South Coast Drive	6	23	32,292	40	0.5	1.8%	0.7%	65.9	-	114	246	530
F. South Coast Drive, between Hyland Avenue and Harbor Boulevard	4	0	13,850	45	0.5	1.8%	0.7%	62.9	-	72	156	335
G. South Coast Drive, between Harbor Boulevard and Susan Street	4	18	12,319	45	0.5	1.8%	0.7%	62.5	-	68	147	317
H. South Coast Drive, between Susan Street and Fairview Road	6	15	9,570	45	0.5	1.8%	0.7%	61.7	-	-	129	278
I. Harbor Boulevard, between I-405 NB Ramps and I-405 SB Ramps	6	10	35,679	40	0.5	1.8%	0.7%	66.1	-	119	255	550

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

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 200230
Project Name: Costa Mesa Hive Live
Scenario: Future 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: Michael Baker International
 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%

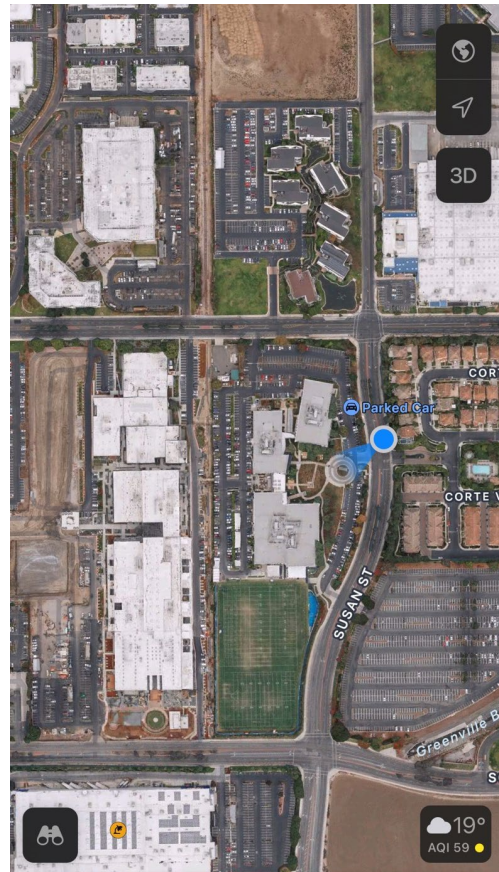
Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
A. Sunflower Avenue, between Harbor Boulevard and Susan Street	6	6	10,426	45	0.5	1.8%	0.7%	61.9	-	62	134	289
B. Sunflower Avenue, between Susan Street and Fairview Road	6	6	12,151	45	0.5	1.8%	0.7%	62.6	-	69	149	320
C. Harbor Boulevard, between Sunflower Avenue and South Coast Drive	6	25	40,203	45	0.5	1.8%	0.7%	68.1	74	160	344	741
D. Susan Street, between Sunflower Avenue and South Coast Drive	5	0	11,558	40	0.5	1.8%	0.7%	61.0	-	54	116	250
E. Fairview Road, between Sunflower Avenue and South Coast Drive	4	0	32,292	40	0.5	1.8%	0.7%	65.4	49	106	228	490
F. South Coast Drive, between Hyland Avenue and Harbor Boulevard	4	10	14,235	40	0.5	1.8%	0.7%	61.9	-	62	133	287
G. South Coast Drive, between Harbor Boulevard and Susan Street	4	13	13,613	40	0.5	1.8%	0.7%	61.7	-	60	130	280
H. South Coast Drive, between Susan Street and Fairview Road	6	15	10,171	40	0.5	1.8%	0.7%	60.7	-	-	112	241
I. Harbor Boulevard, between I-405 NB Ramps and I-405 SB Ramps	6	5	36,434	40	0.5	1.8%	0.7%	66.1	-	119	257	553

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

Site Number: NM-1		
Recorded By: Winnie Woo, Darshan Shivaiah		
Job Number: 200230		
Date: 5/2/2024		
Time: 10:12 a.m.		
Location: Northeast corner of the Via Luca and Susan Street intersection		
Source of Ambient Noise: Traffic along Susan Street		
Noise Data		
L_{eq} (dB)	L_{max}(dB)	L_{min} (dB)
63.7	80.9	44.7

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	06/04/2023	
	Microphone	Brüel & Kjær	4189	3086765	06/04/2023	
	Preamp	Brüel & Kjær	ZC 0032	25380	06/04/2023	
	Calibrator	Brüel & Kjær	4231	2545667	06/04/2023	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	4 mph		66		29.98	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		05/02/2024 10:12:49
End Time:		05/02/2024 10:22:49
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.21

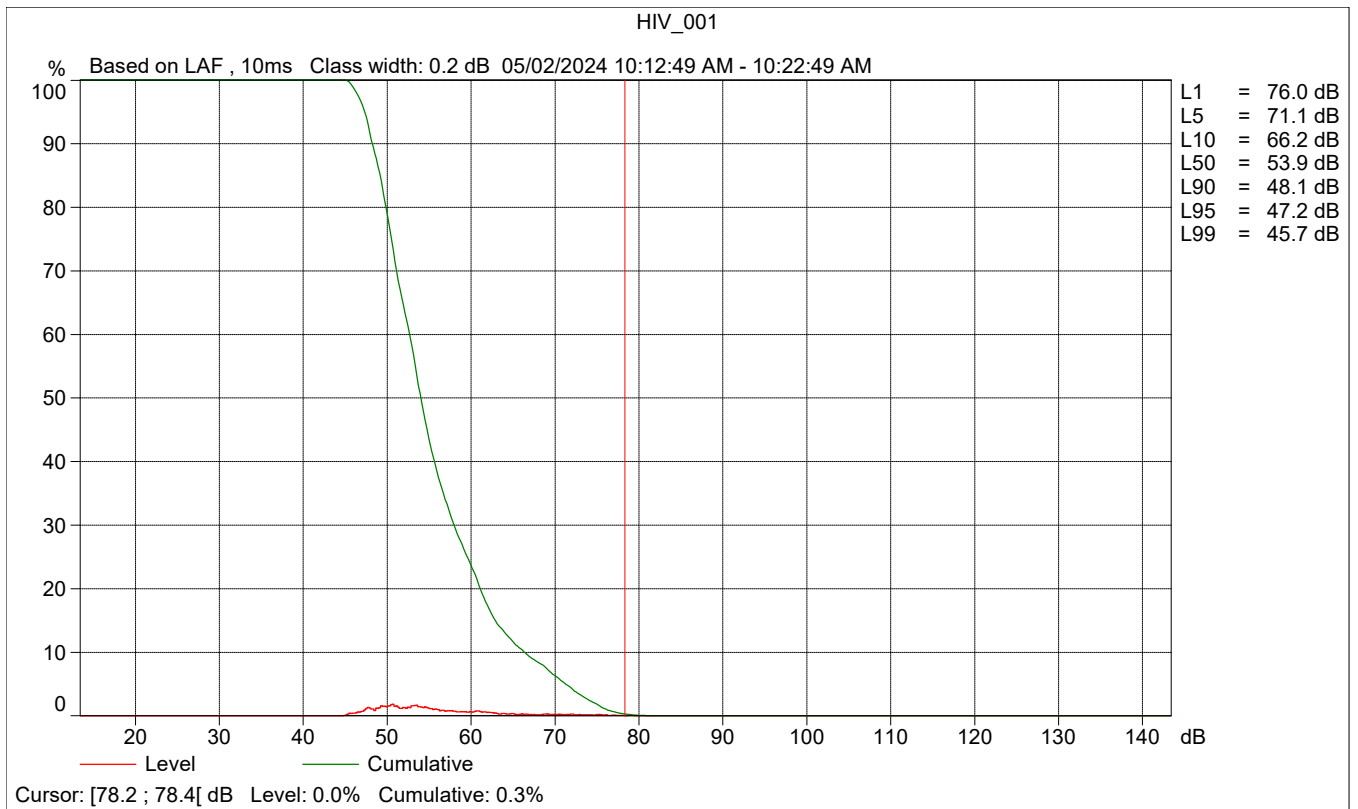
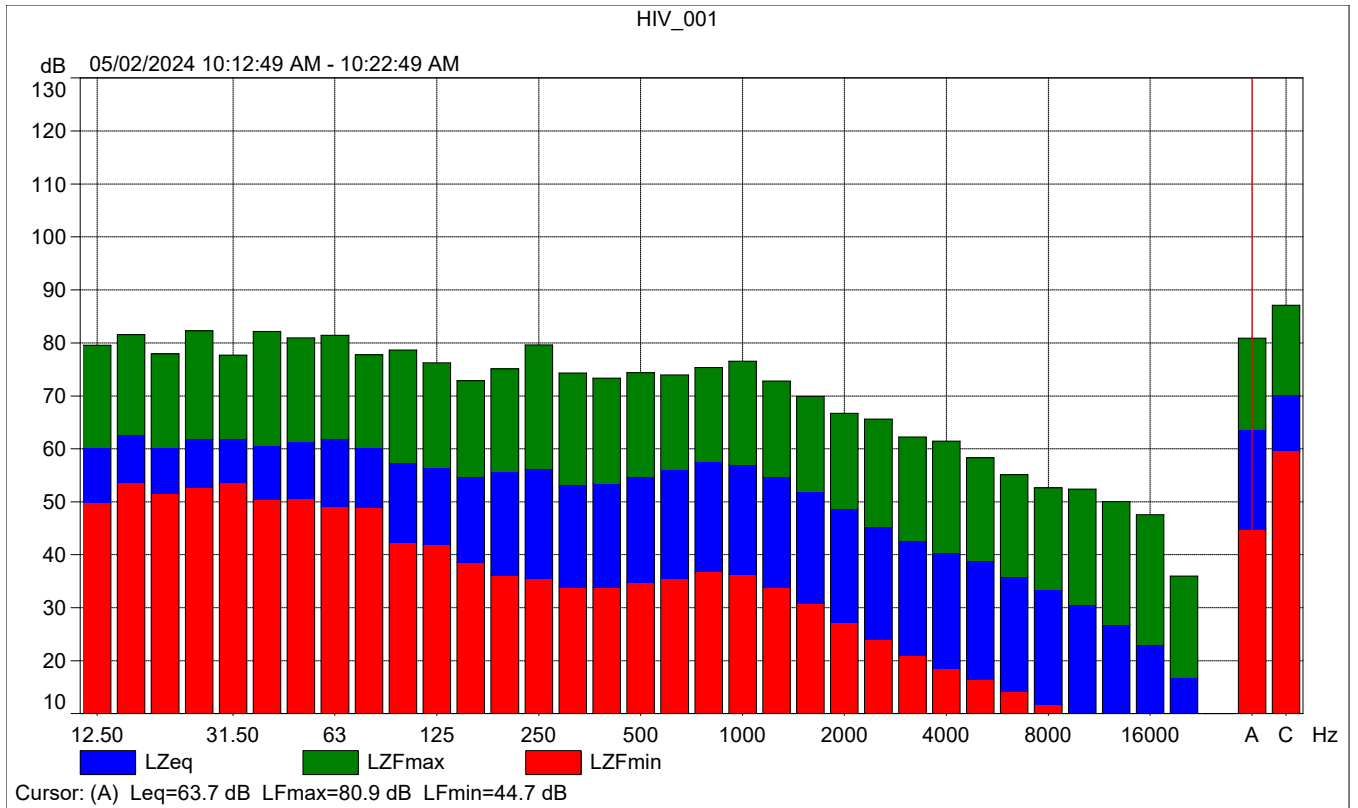
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

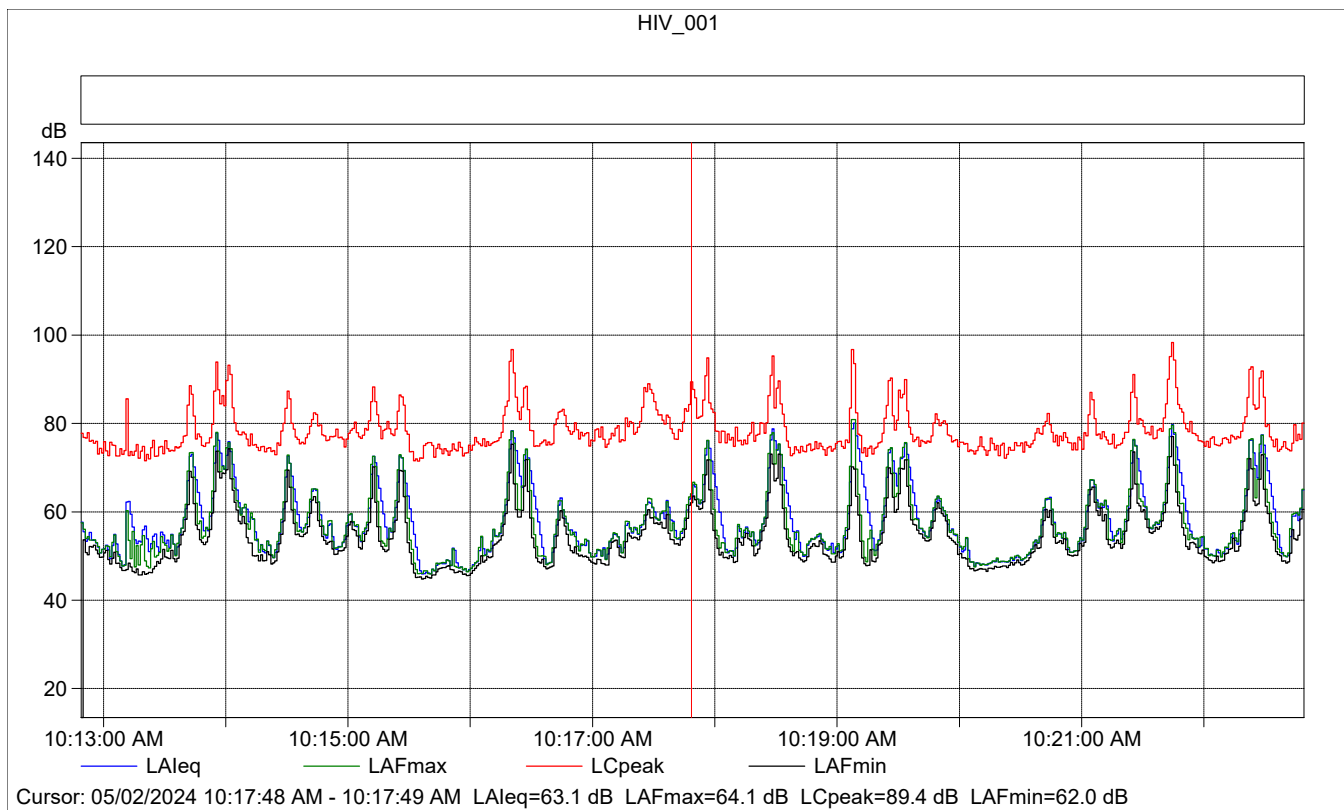
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		05/02/2024 09:45:55
Calibration Type:		External reference
Sensitivity:		43.1524030864239 mV/Pa

HIV_001

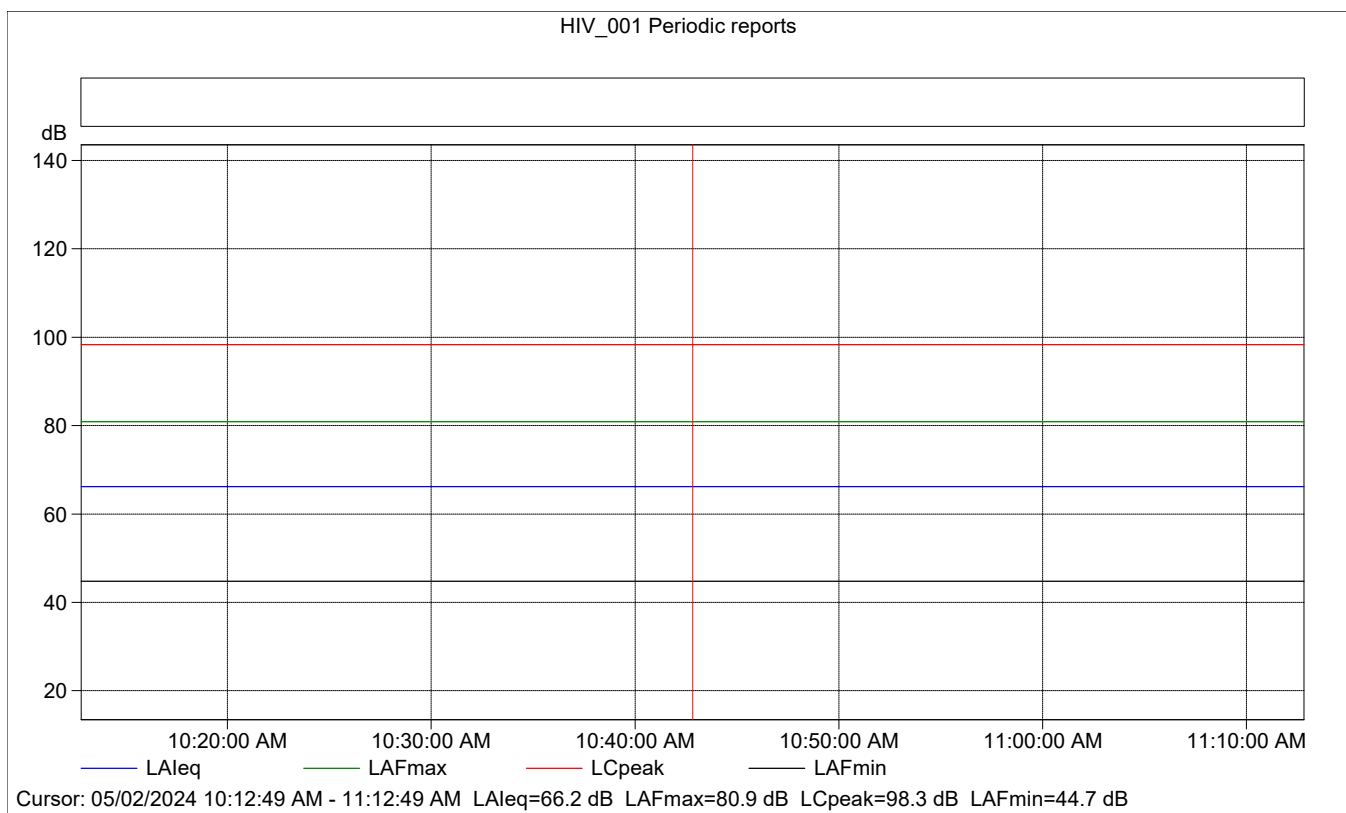
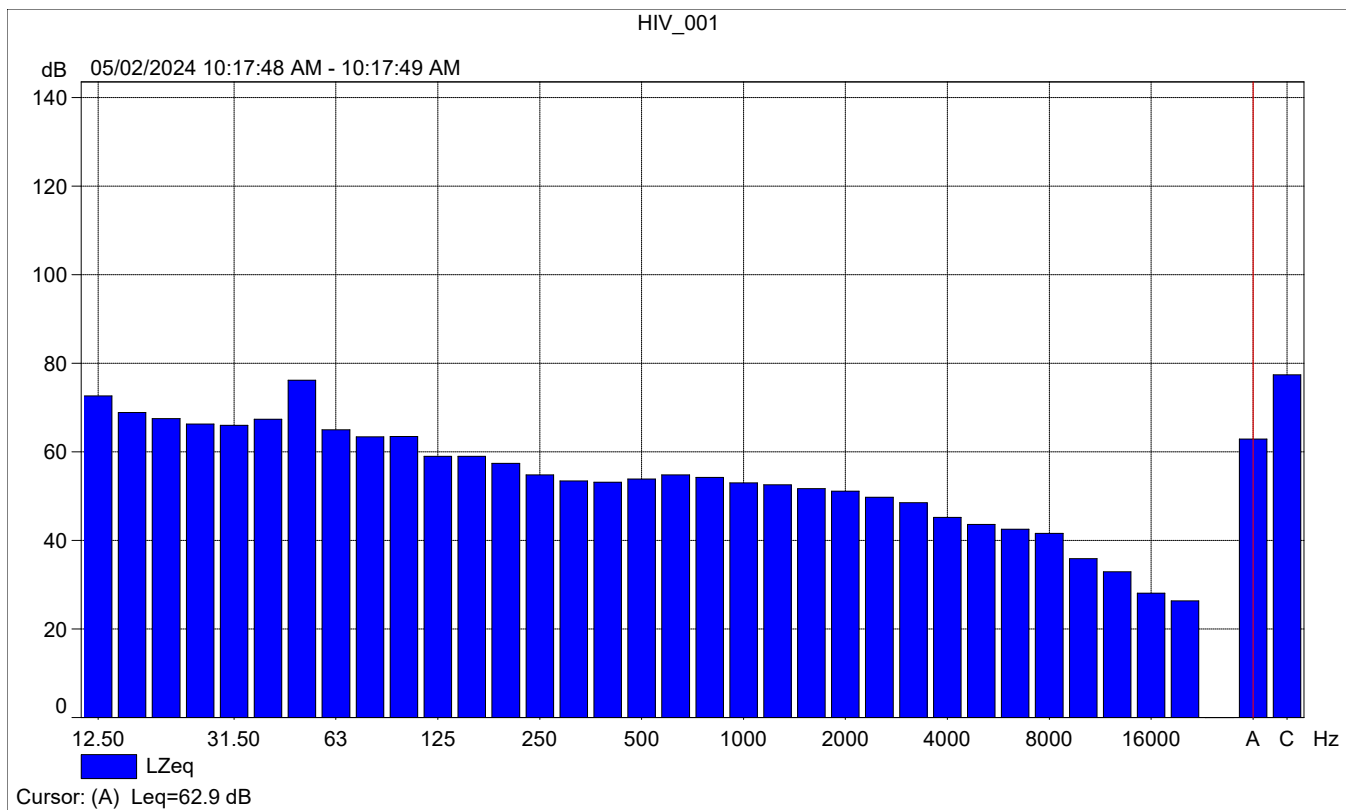
	Start time	End time	Elapsed time	Overload [%]	L _{Aeq} [dB]	L _{AFmax} [dB]	L _{AFmin} [dB]
Value				0.00	63.7	80.9	44.7
Time	10:12:49 AM	10:22:49 AM	0:10:00				
Date	05/02/2024	05/02/2024					





HIV_001

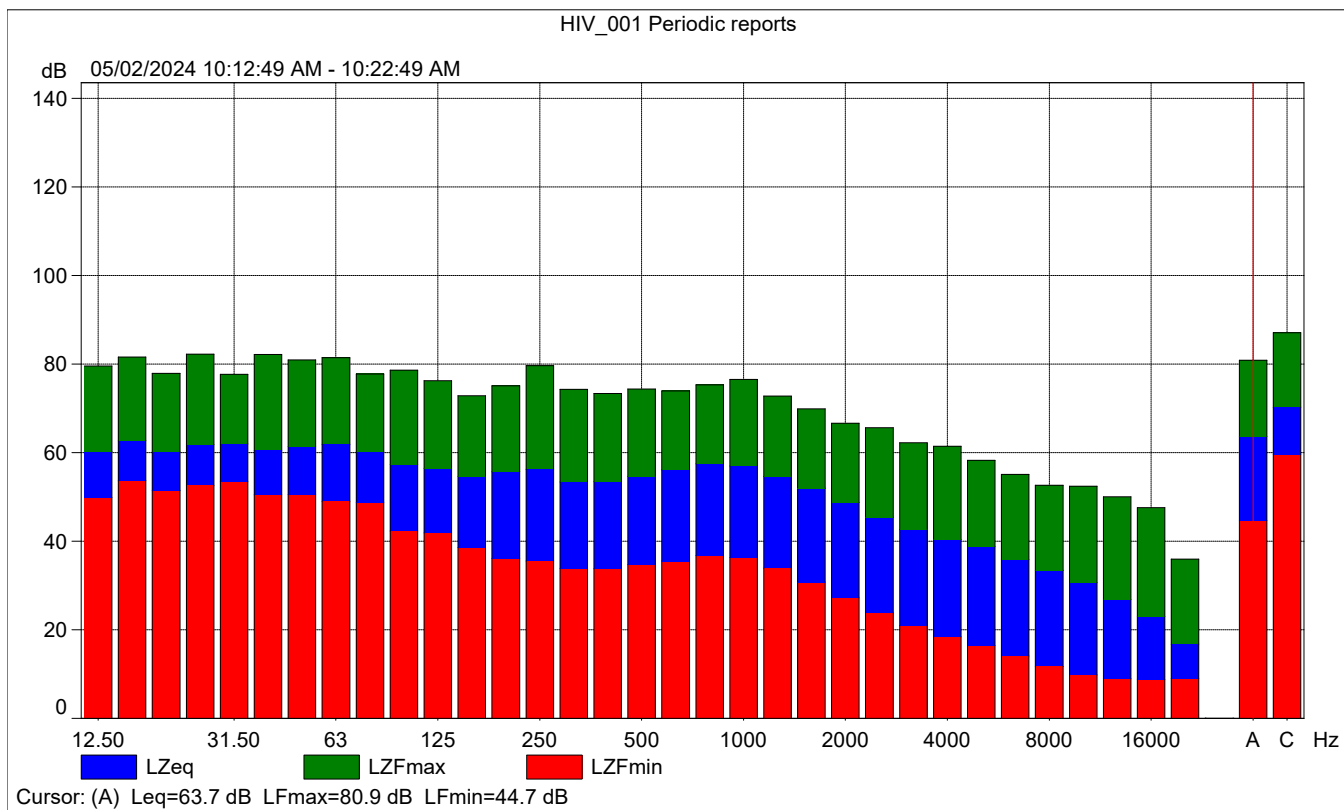
	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	63.1	64.1	62.0
Time	10:17:48 AM	0:00:01				
Date	05/02/2024					





HIV_001 Periodic reports

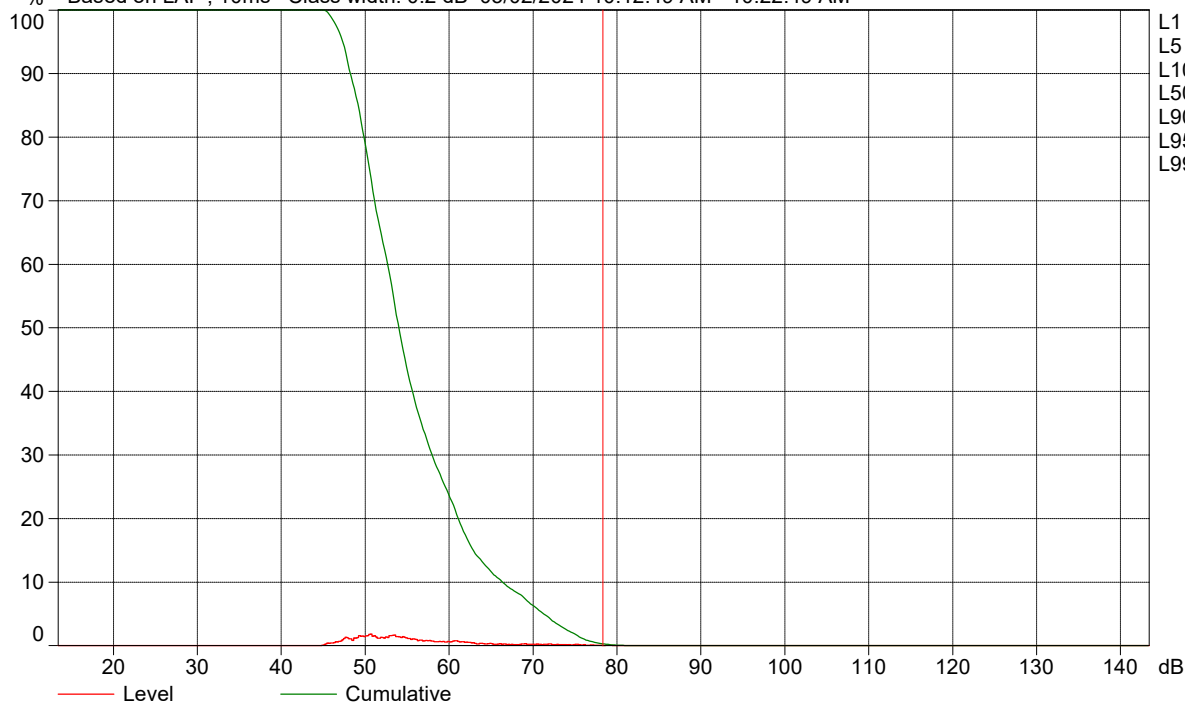
	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	66.2	80.9	44.7
Time	10:12:49 AM	0:10:00				
Date	05/02/2024					





HIV_001 Periodic reports

% Based on LAF , 10ms Class width: 0.2 dB 05/02/2024 10:12:49 AM - 10:22:49 AM



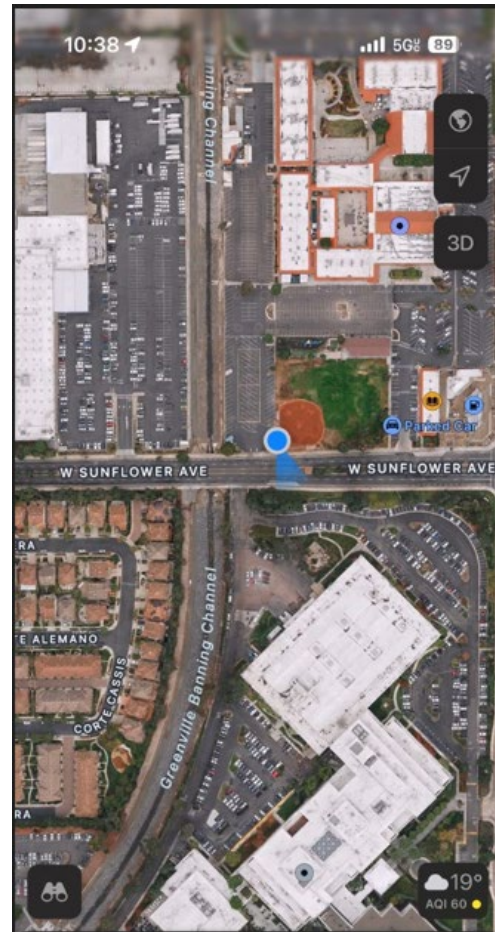
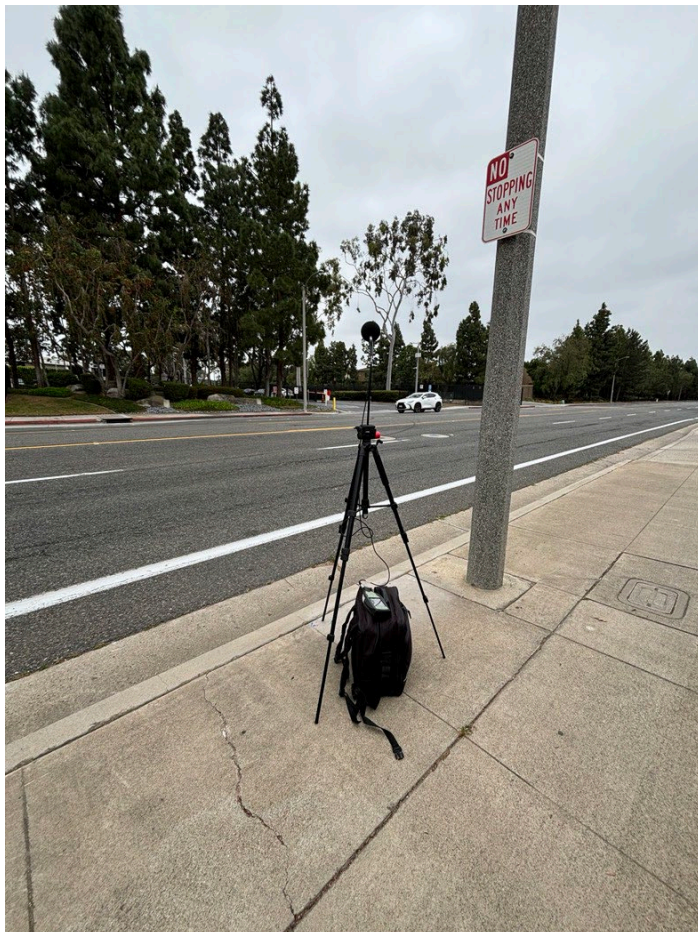
- L1 = 76.0 dB
- L5 = 71.1 dB
- L10 = 66.2 dB
- L50 = 53.9 dB
- L90 = 48.1 dB
- L95 = 47.2 dB
- L99 = 45.7 dB

Cursor: [78.2 ; 78.4] dB Level: 0.0% Cumulative: 0.3%

Site Number: NM-2		
Recorded By: Winnie Woo, Darshan Shivaiah		
Job Number: 200230		
Date: 5/2/2024		
Time: 10:35 a.m.		
Location: Approximately 350 feet west of the West Sunflower Avenue and Fairview Road intersection		
Source of Ambient Noise: Traffic along West Sunflower Avenue		
Noise Data		
L_{eq} (dB)	L_{max}(dB)	L_{min} (dB)
68.7	83.3	46.6

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	06/04/2023	
	Microphone	Brüel & Kjær	4189	3086765	06/04/2023	
	Preamp	Brüel & Kjær	ZC 0032	25380	06/04/2023	
	Calibrator	Brüel & Kjær	4231	2545667	06/04/2023	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	4 mph		66		29.98	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		05/02/2024 10:35:59
End Time:		05/02/2024 10:45:59
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.21

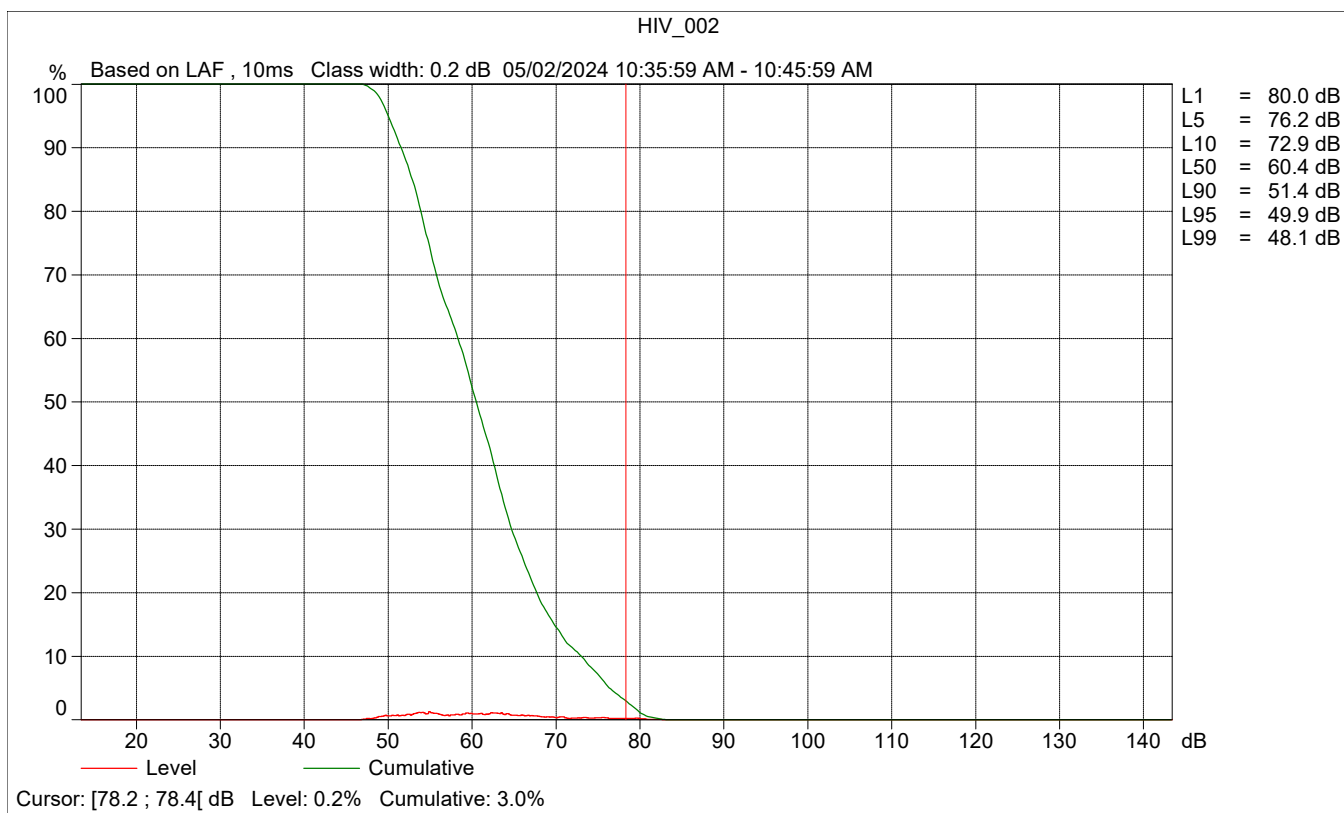
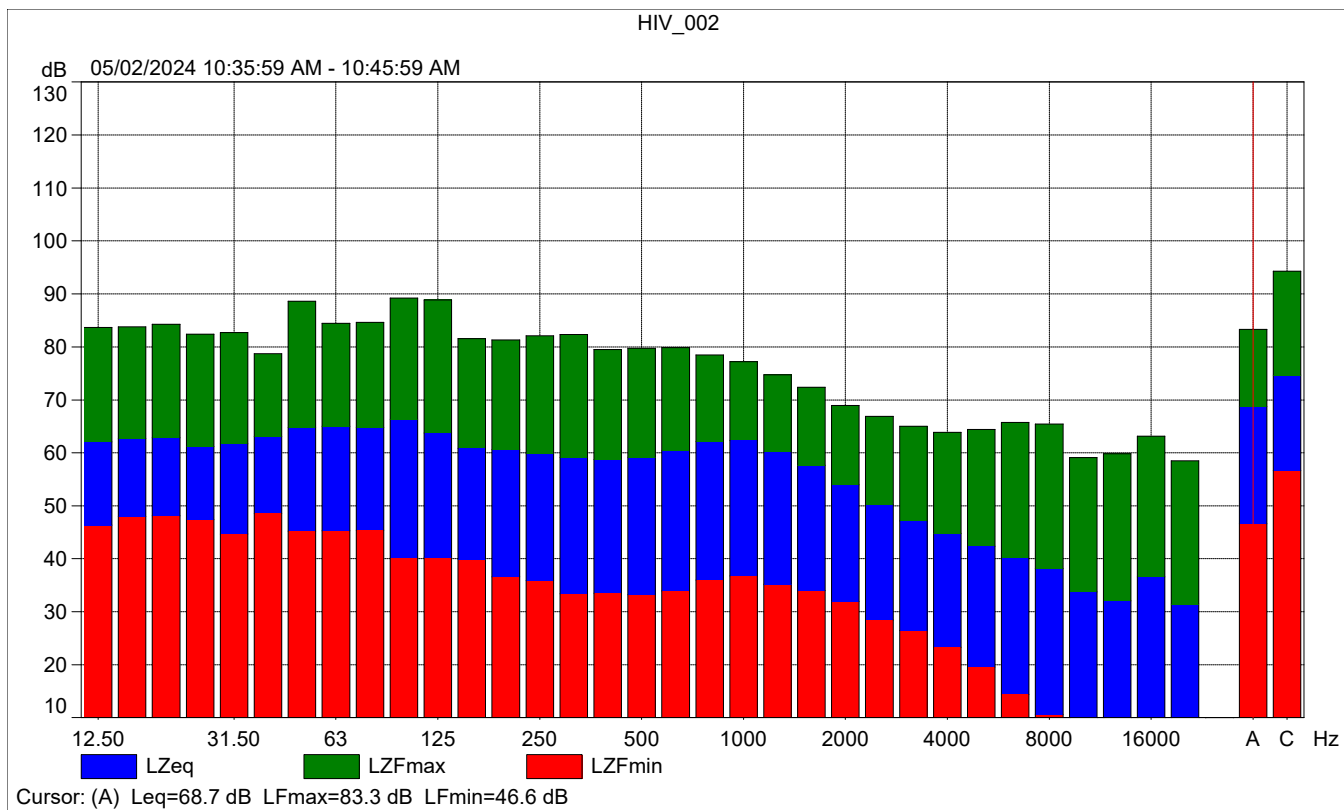
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

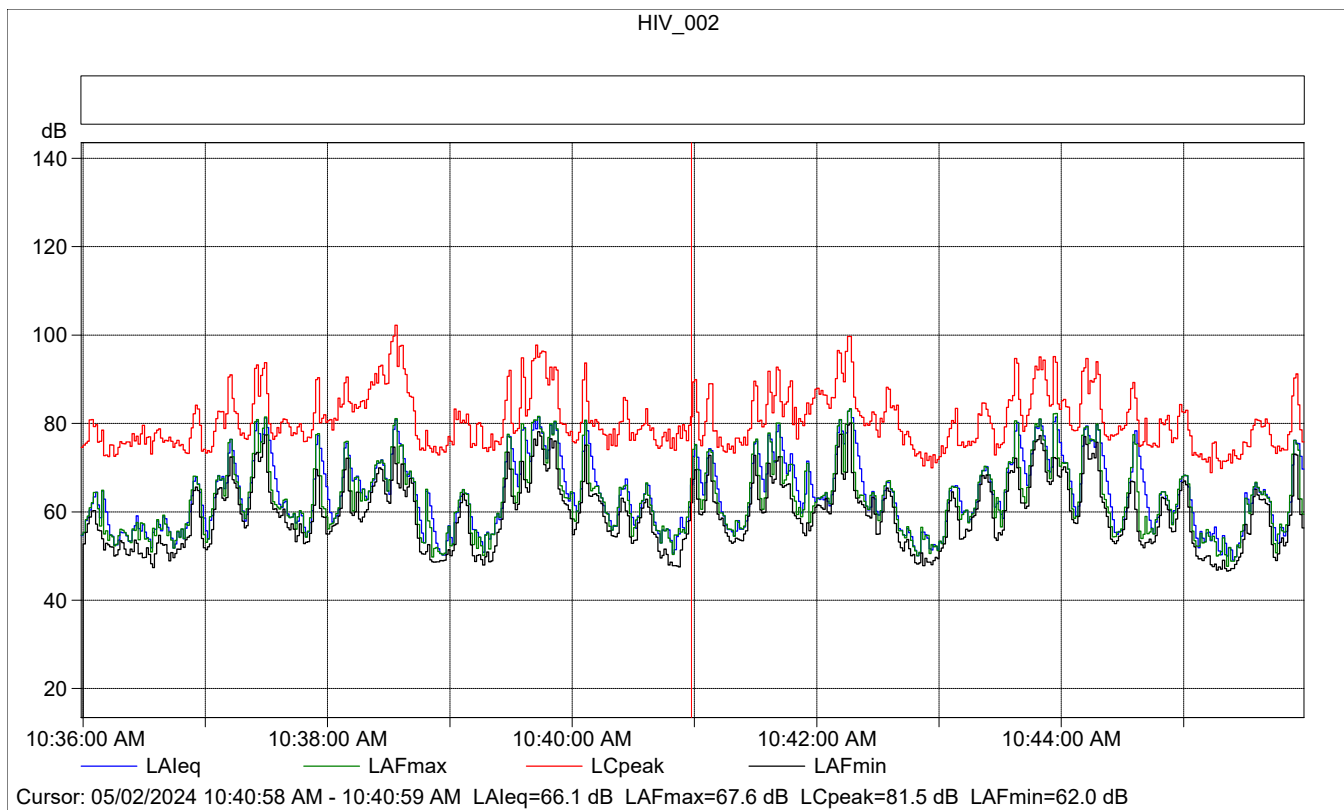
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		05/02/2024 09:45:55
Calibration Type:		External reference
Sensitivity:		43.1524030864239 mV/Pa

HIV_002

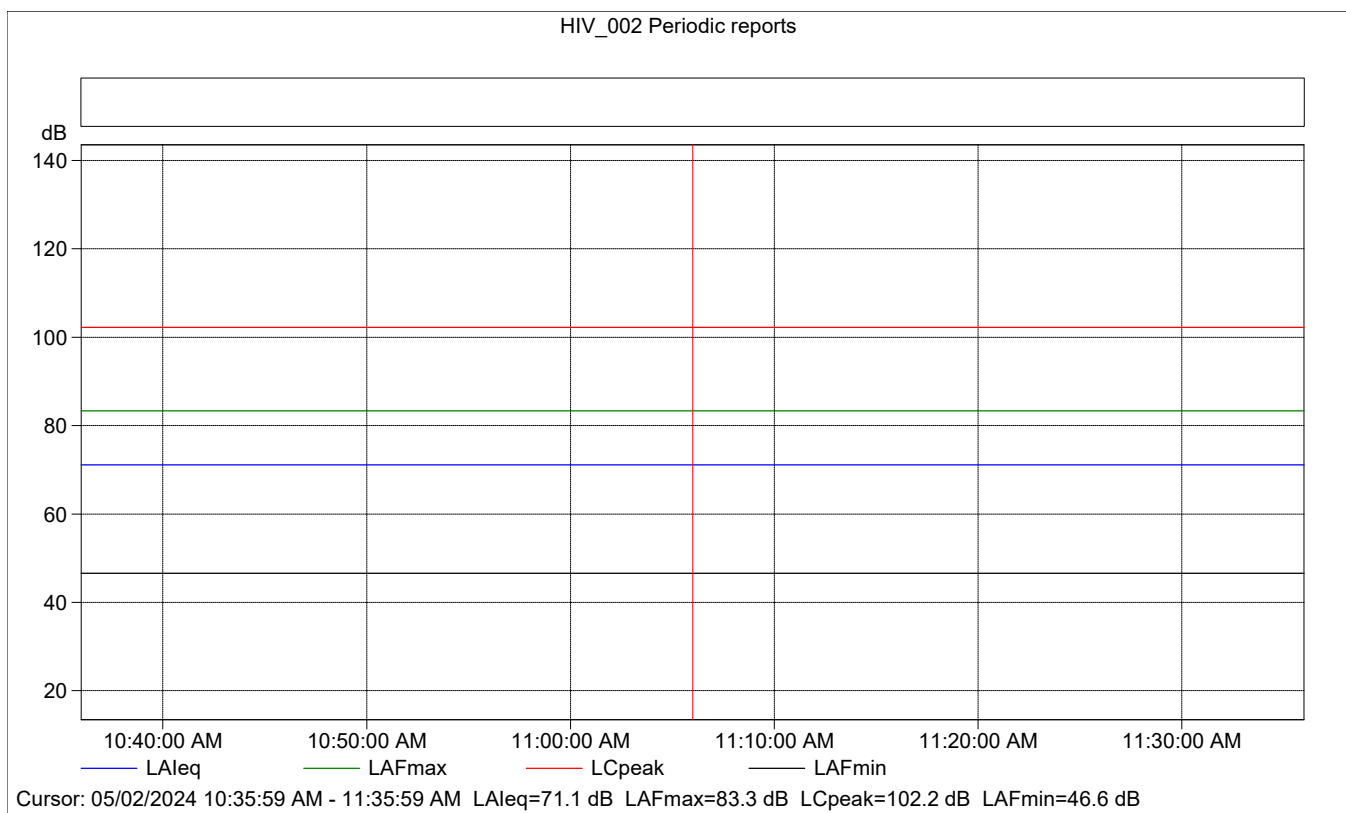
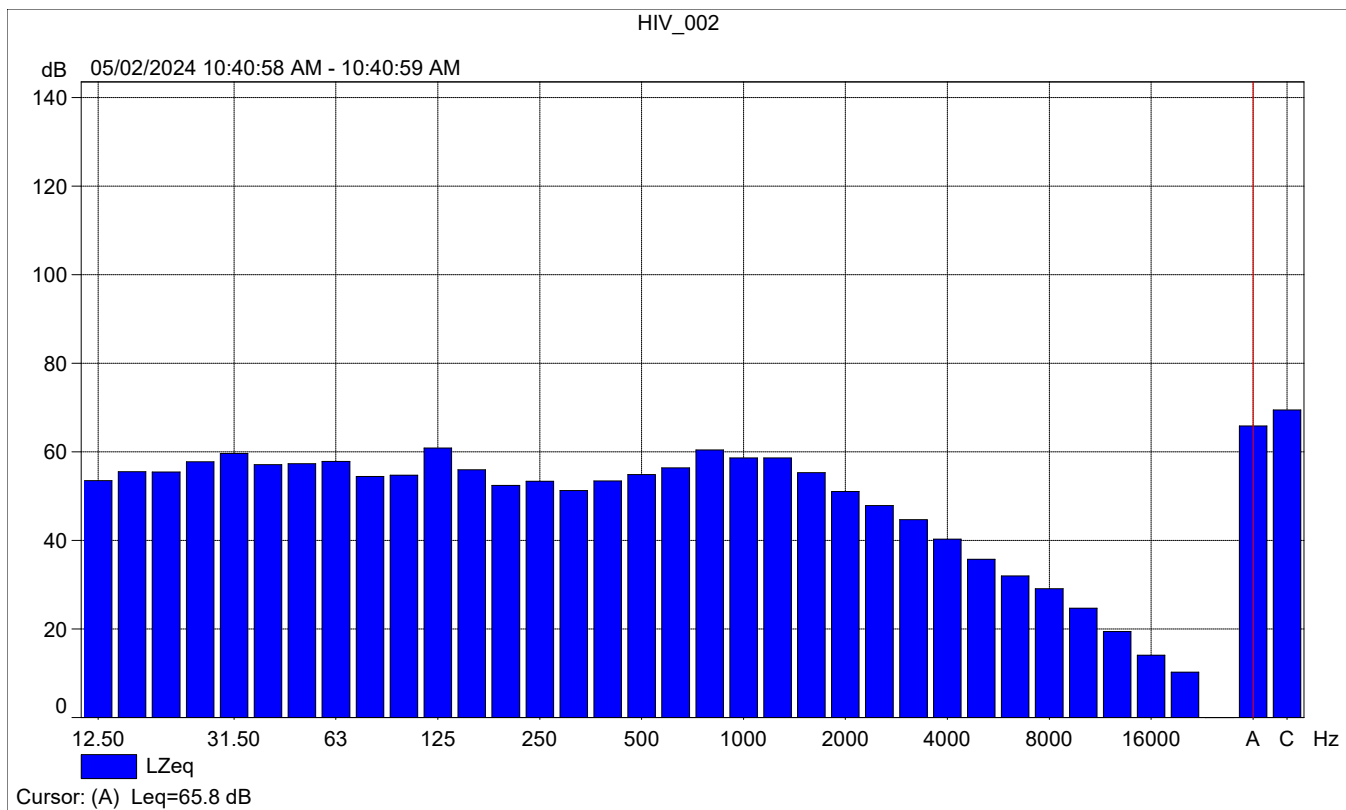
	Start time	End time	Elapsed time	Overload [%]	L _{Aeq} [dB]	L _{AFmax} [dB]	L _{AFmin} [dB]
Value				0.00	68.7	83.3	46.6
Time	10:35:59 AM	10:45:59 AM	0:10:00				
Date	05/02/2024	05/02/2024					





HIV_002

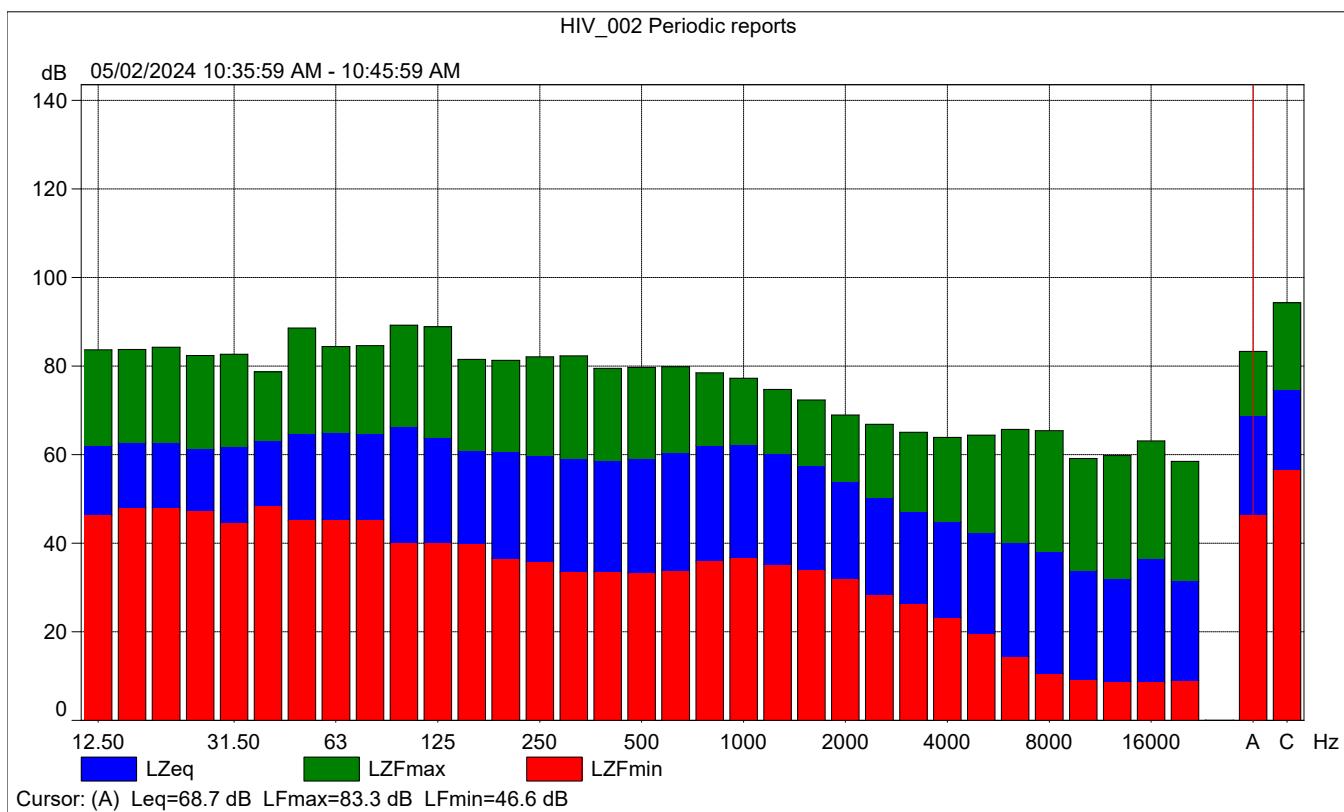
	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	66.1	67.6	62.0
Time	10:40:58 AM	0:00:01				
Date	05/02/2024					





HIV_002 Periodic reports

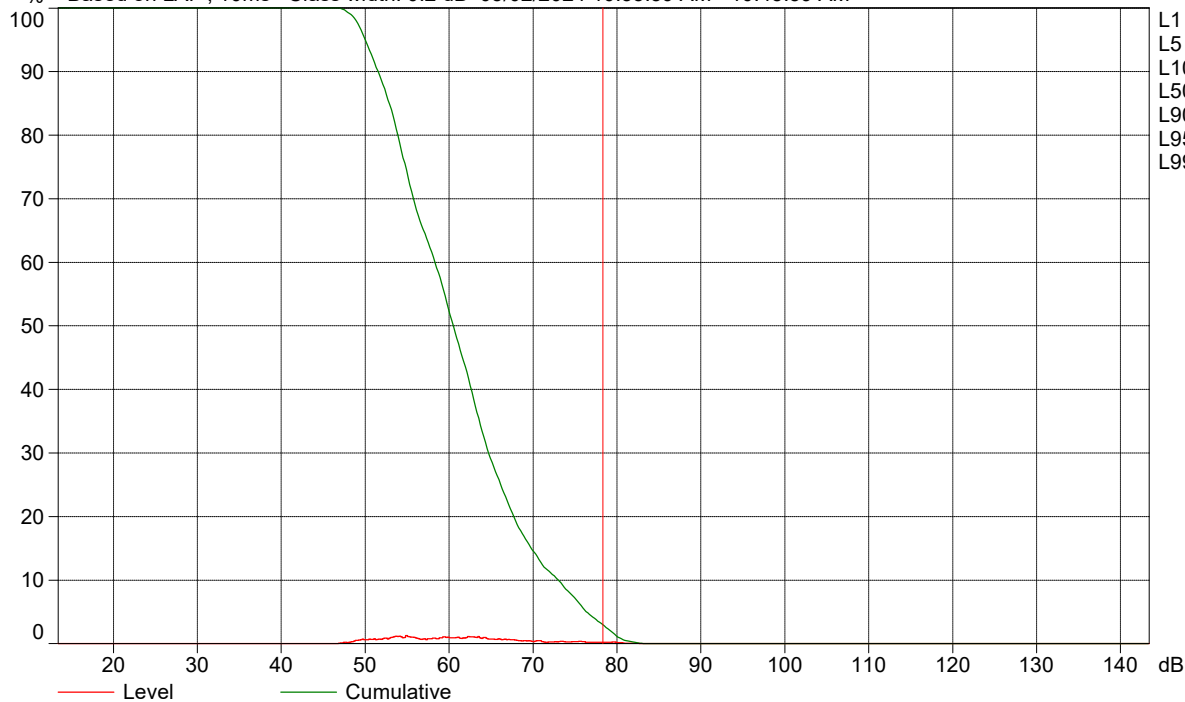
	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	71.1	83.3	46.6
Time	10:35:59 AM	0:10:00				
Date	05/02/2024					





HIV_002 Periodic reports

% Based on LAF, 10ms Class width: 0.2 dB 05/02/2024 10:35:59 AM - 10:45:59 AM

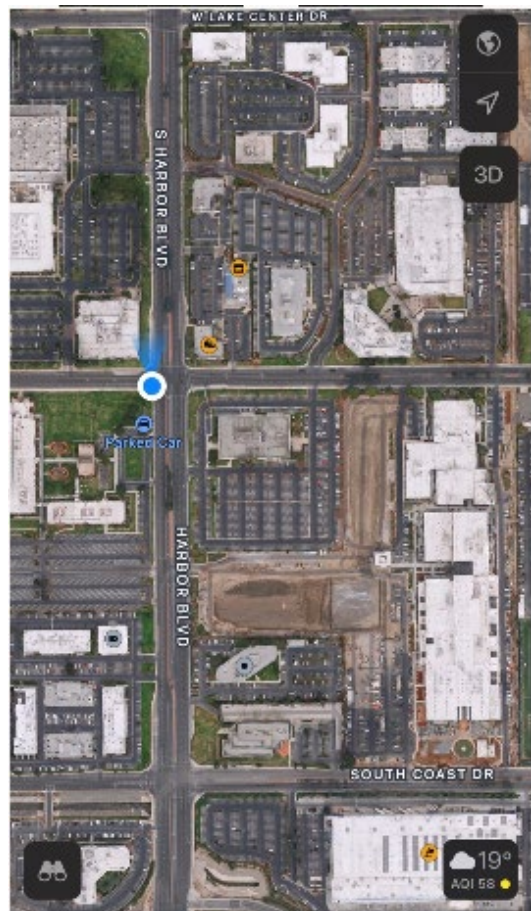
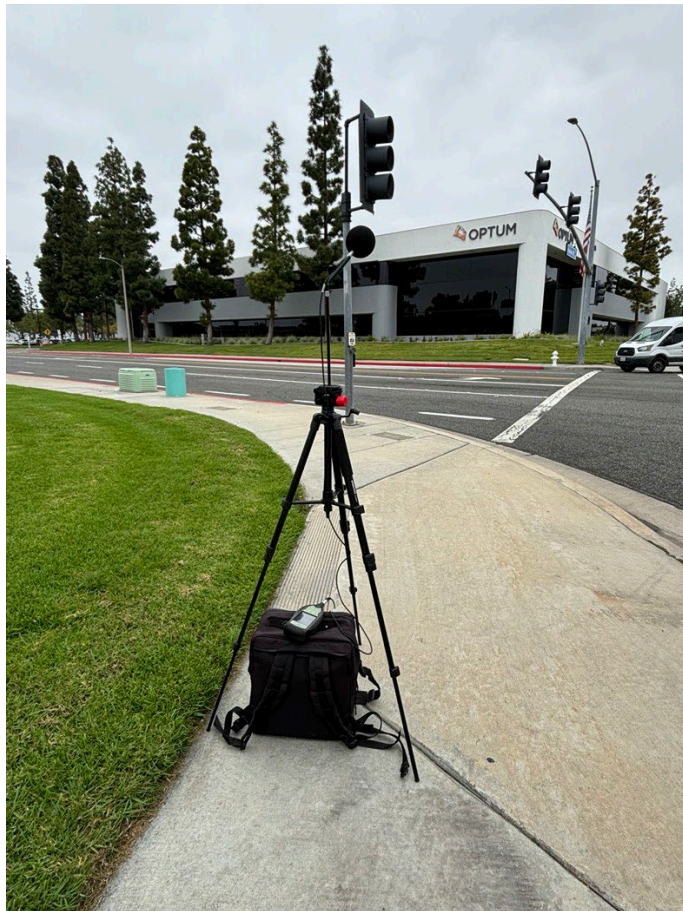


Cursor: [78.2 ; 78.4[dB Level: 0.2% Cumulative: 3.0%

Site Number: NM-3		
Recorded By: Winnie Woo, Darshan Shivaiah		
Job Number: 200230		
Date: 5/2/2024		
Time: 10:58 a.m.		
Location: Southwest corner of the Harbor Boulevard and Sunflower Avenue intersection		
Source of Ambient Noise: Traffic along Harbor Boulevard and West Sunflower Avenue		
Noise Data		
L_{eq} (dB)	L_{max}(dB)	L_{min} (dB)
72.7	97.0	54.2

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	06/04/2023	
	Microphone	Brüel & Kjær	4189	3086765	06/04/2023	
	Preamp	Brüel & Kjær	ZC 0032	25380	06/04/2023	
	Calibrator	Brüel & Kjær	4231	2545667	06/04/2023	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	4 mph		66		29.98	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		05/02/2024 10:58:26
End Time:		05/02/2024 11:08:26
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.21

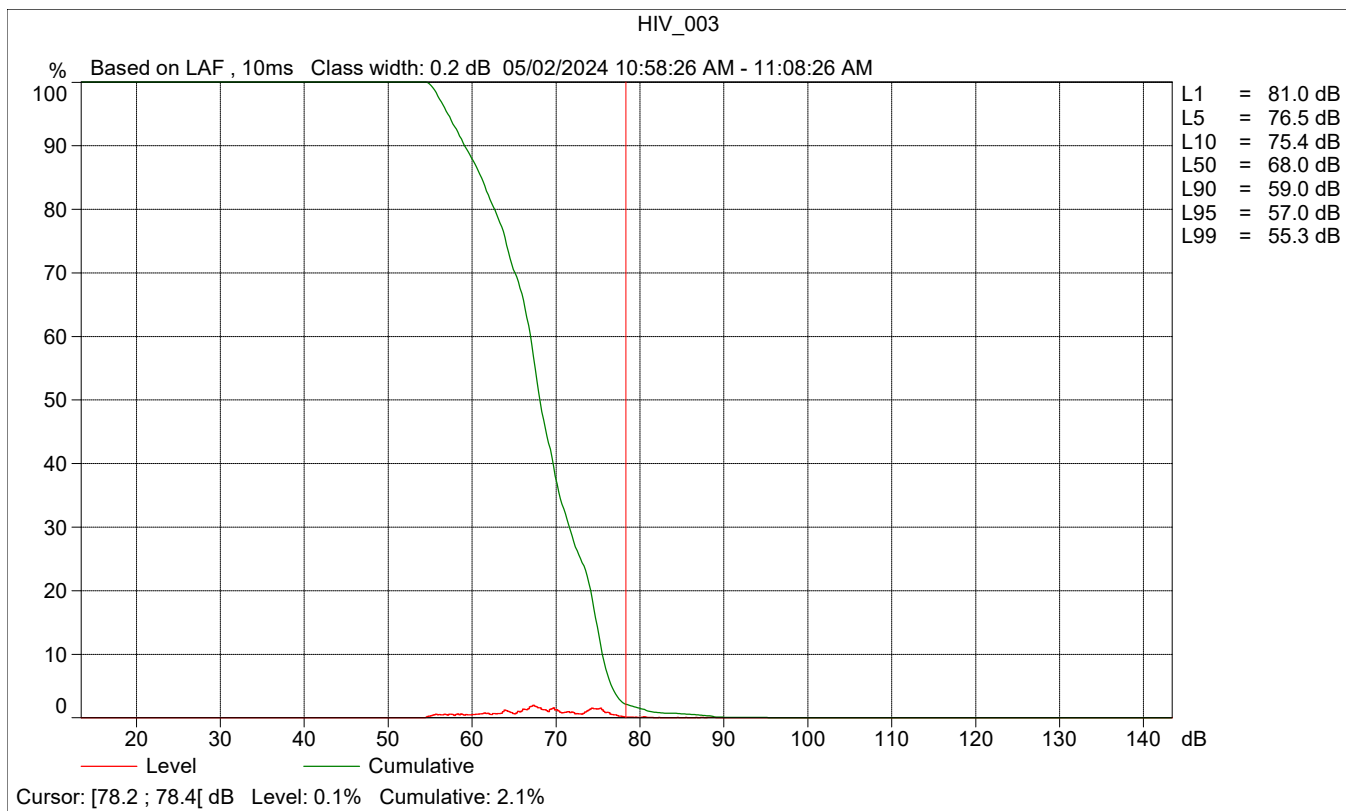
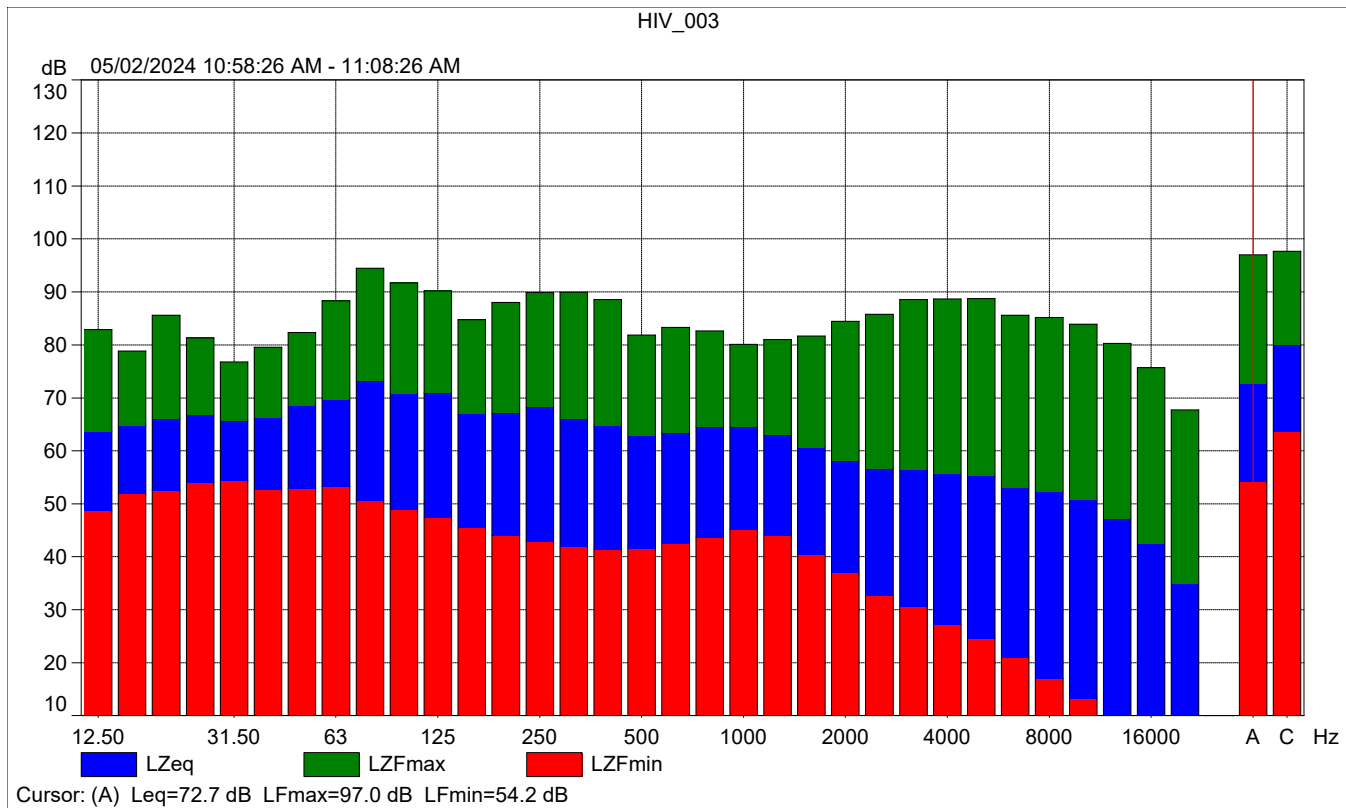
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

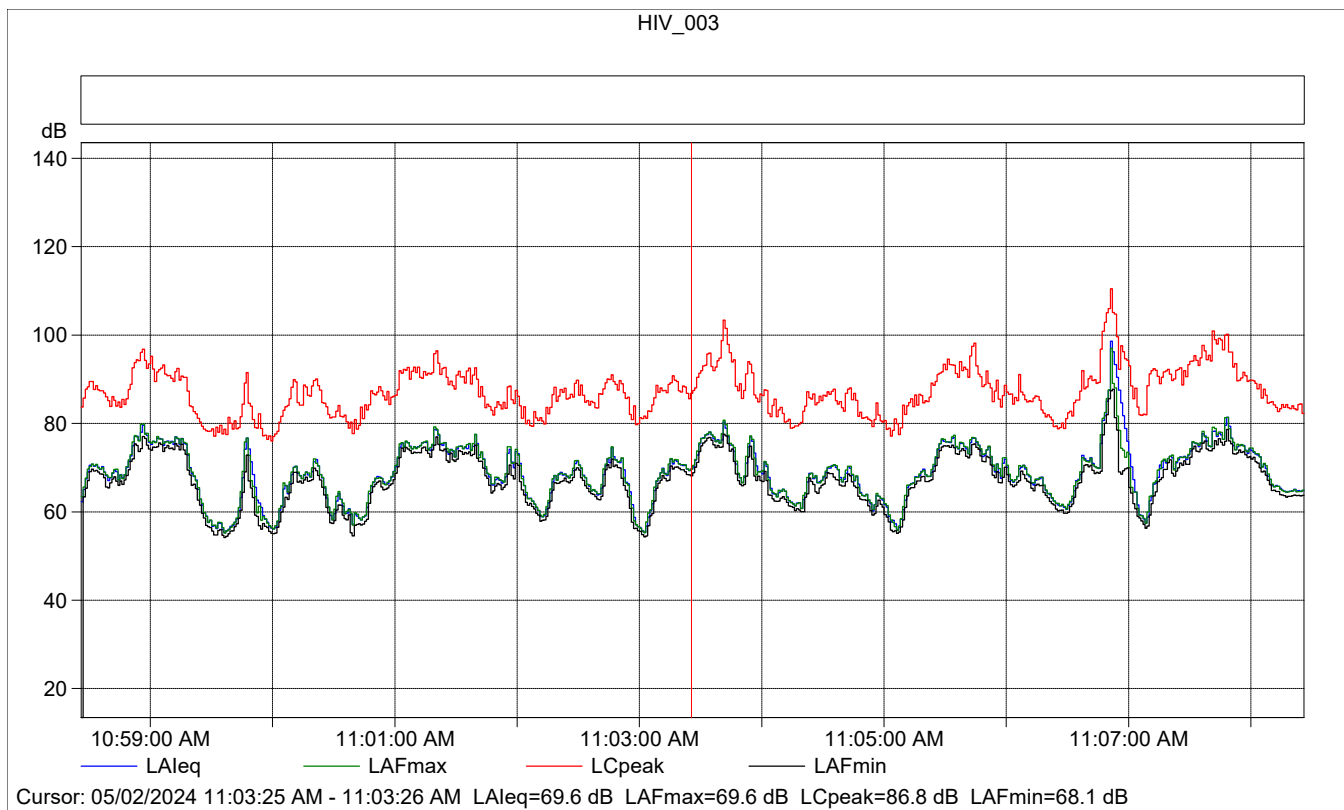
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		05/02/2024 09:45:55
Calibration Type:		External reference
Sensitivity:		43.1524030864239 mV/Pa

HIV_003

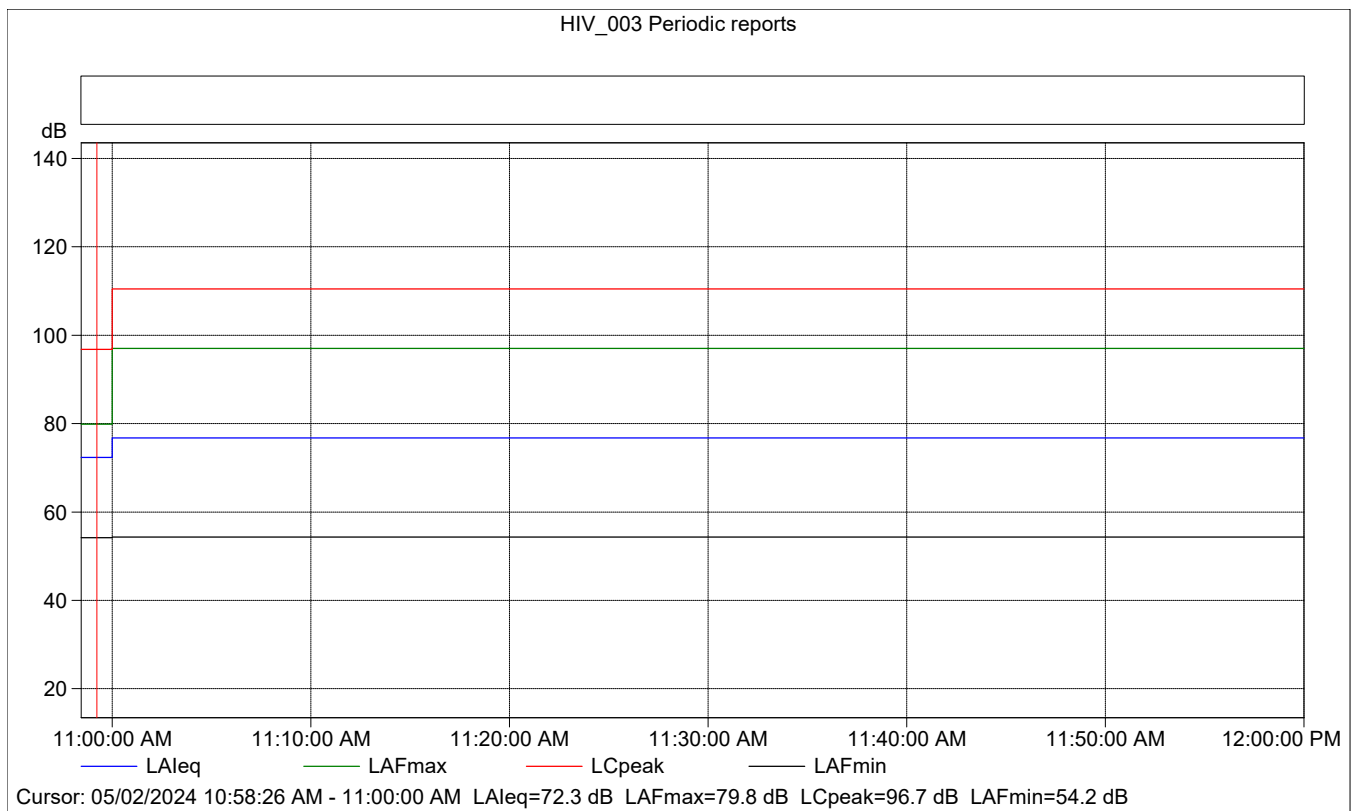
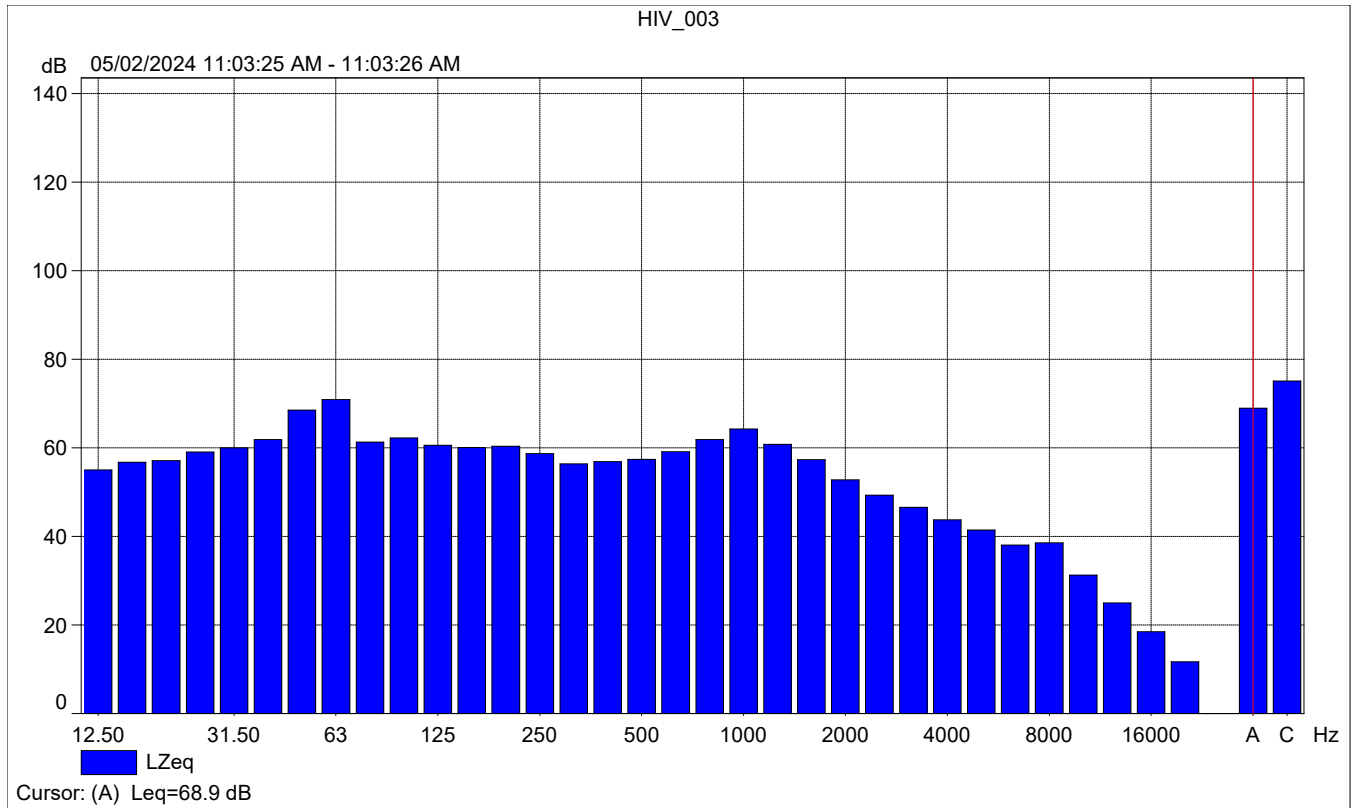
	Start time	End time	Elapsed time	Overload [%]	L _{Aeq} [dB]	L _{AFmax} [dB]	L _{AFmin} [dB]
Value				0.00	72.7	97.0	54.2
Time	10:58:26 AM	11:08:26 AM	0:10:00				
Date	05/02/2024	05/02/2024					





HIV_003

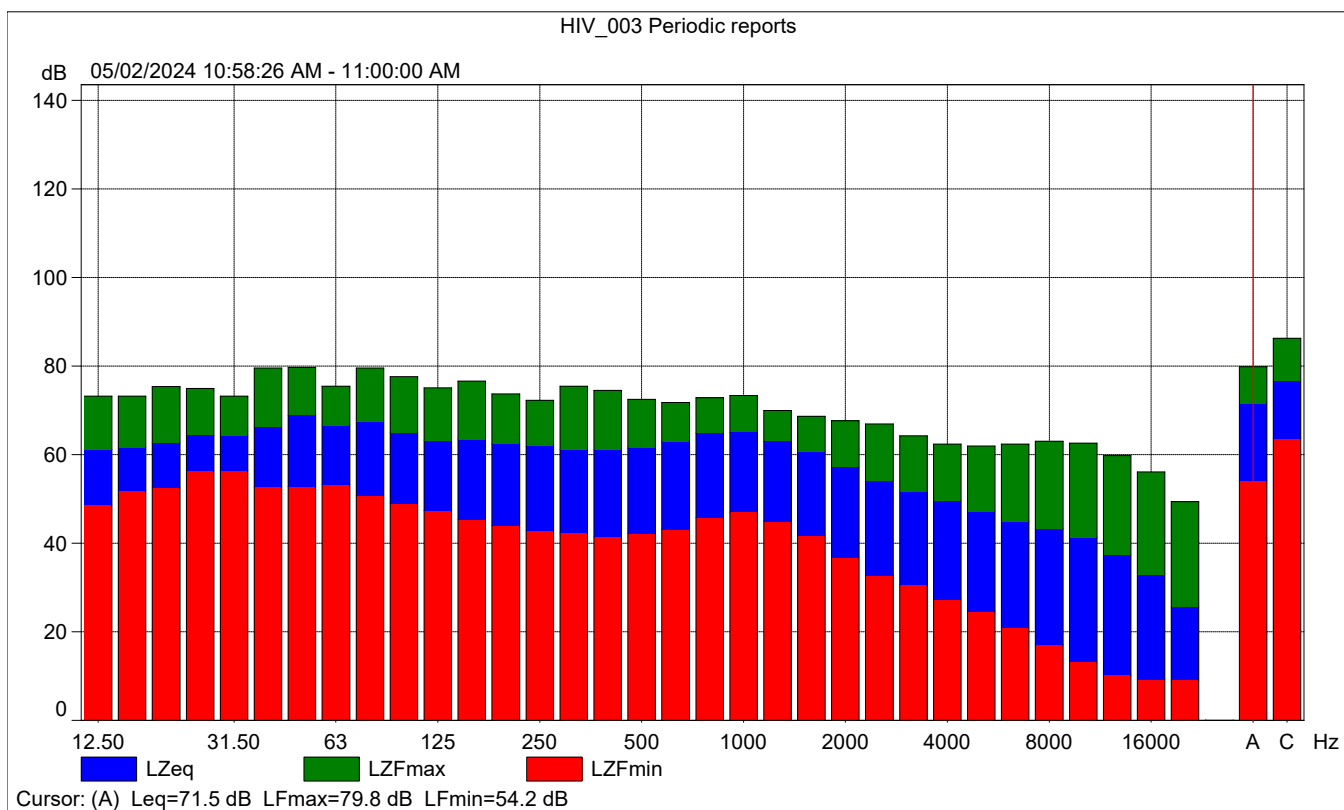
	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	69.6	69.6	68.1
Time	11:03:25 AM	0:00:01				
Date	05/02/2024					





HIV_003 Periodic reports

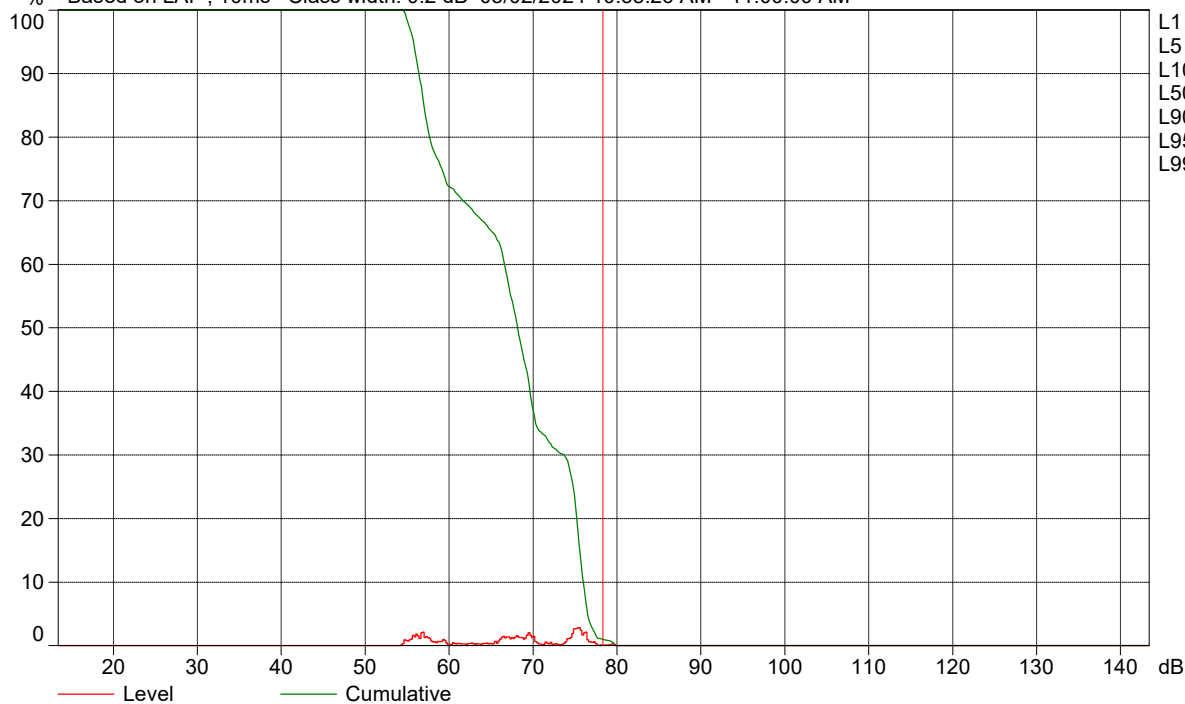
	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	72.3	79.8	54.2
Time	10:58:26 AM	0:01:34				
Date	05/02/2024					





HIV_003 Periodic reports

% Based on LAF, 10ms Class width: 0.2 dB 05/02/2024 10:58:26 AM - 11:00:00 AM



Cursor: [78.2 ; 78.4[dB Level: 0.1% Cumulative: 1.0%