

APPENDIX E

Noise Analysis

Site Number: ST-1			
Recorded By: Danielle Regimbal			
Job Number: 182984			
Date: June 16, 2021			
Time: 10:23 A.M.			
Location: In front of residence located at 40 W. Barclay Street.			
Source of Peak Noise: Cars driving along Barclay Street.			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
54.7	67.8	49.3	92.3

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	04/08/2019	
	Microphone	Brüel & Kjær	4189	3086765	04/08/2019	
	Preamp	Brüel & Kjær	ZC 0032	25380	04/08/2019	
	Calibrator	Brüel & Kjær	4231	2545667	04/08/2019	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny/Clear		
	Note: dBA Offset = -0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	9 mph		77		29.83	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		06/16/2021 10:23:28
End Time:		06/16/2021 10:33:28
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.24

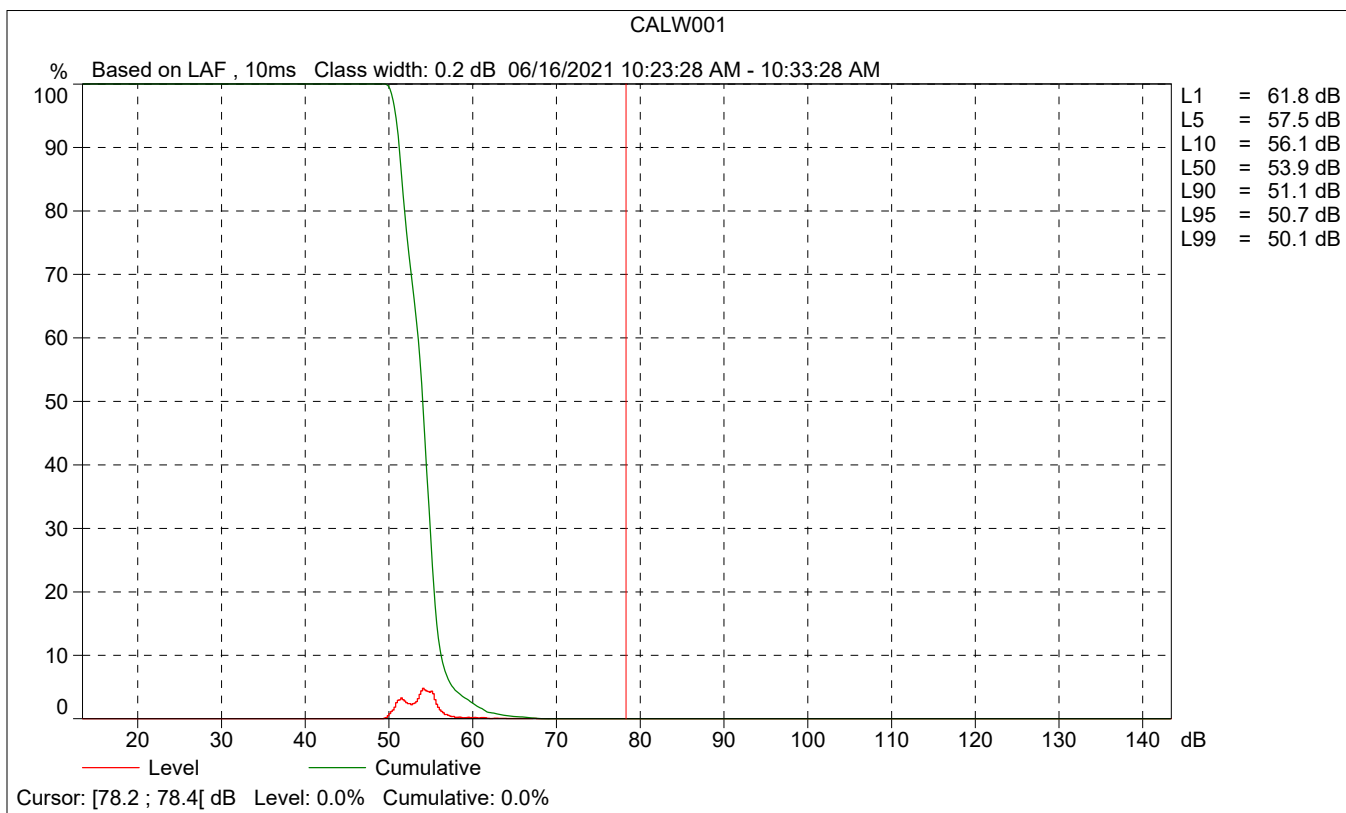
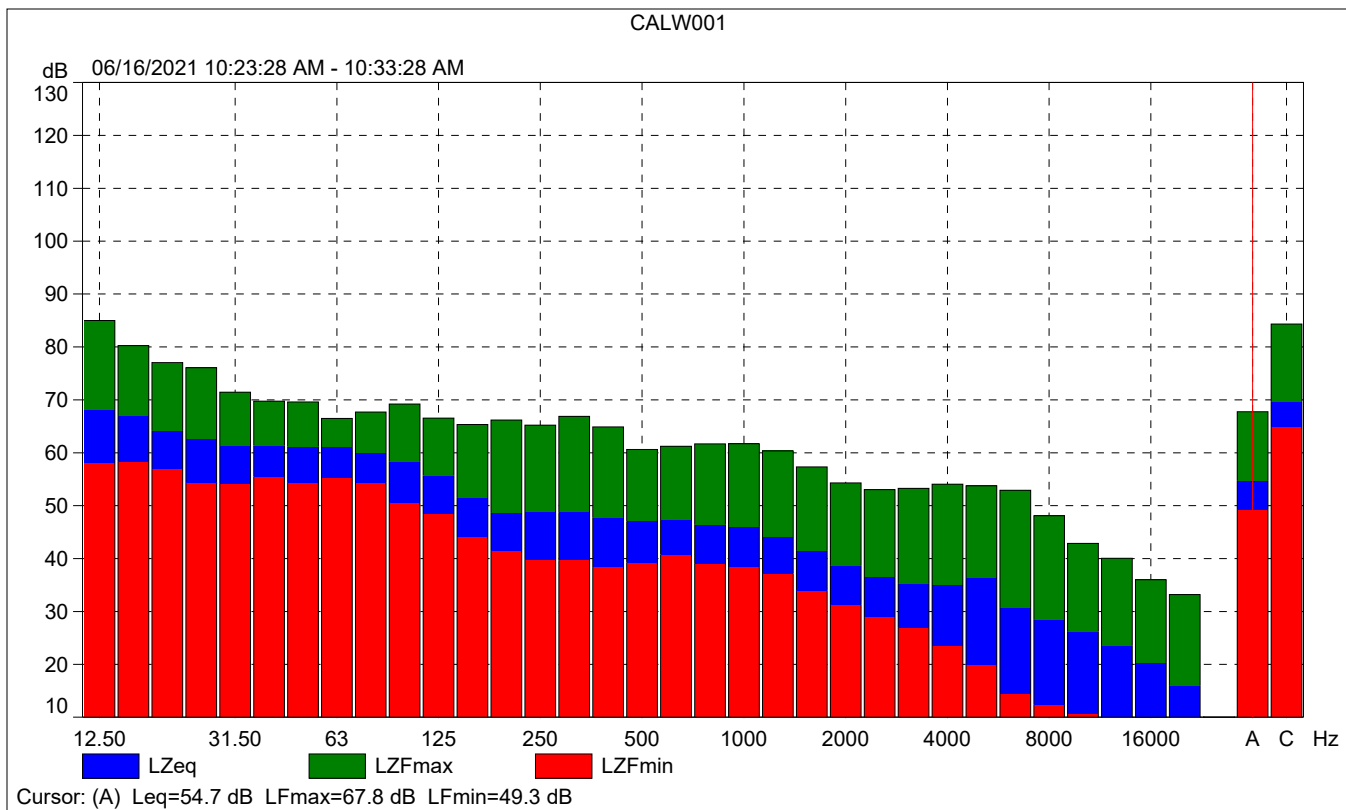
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

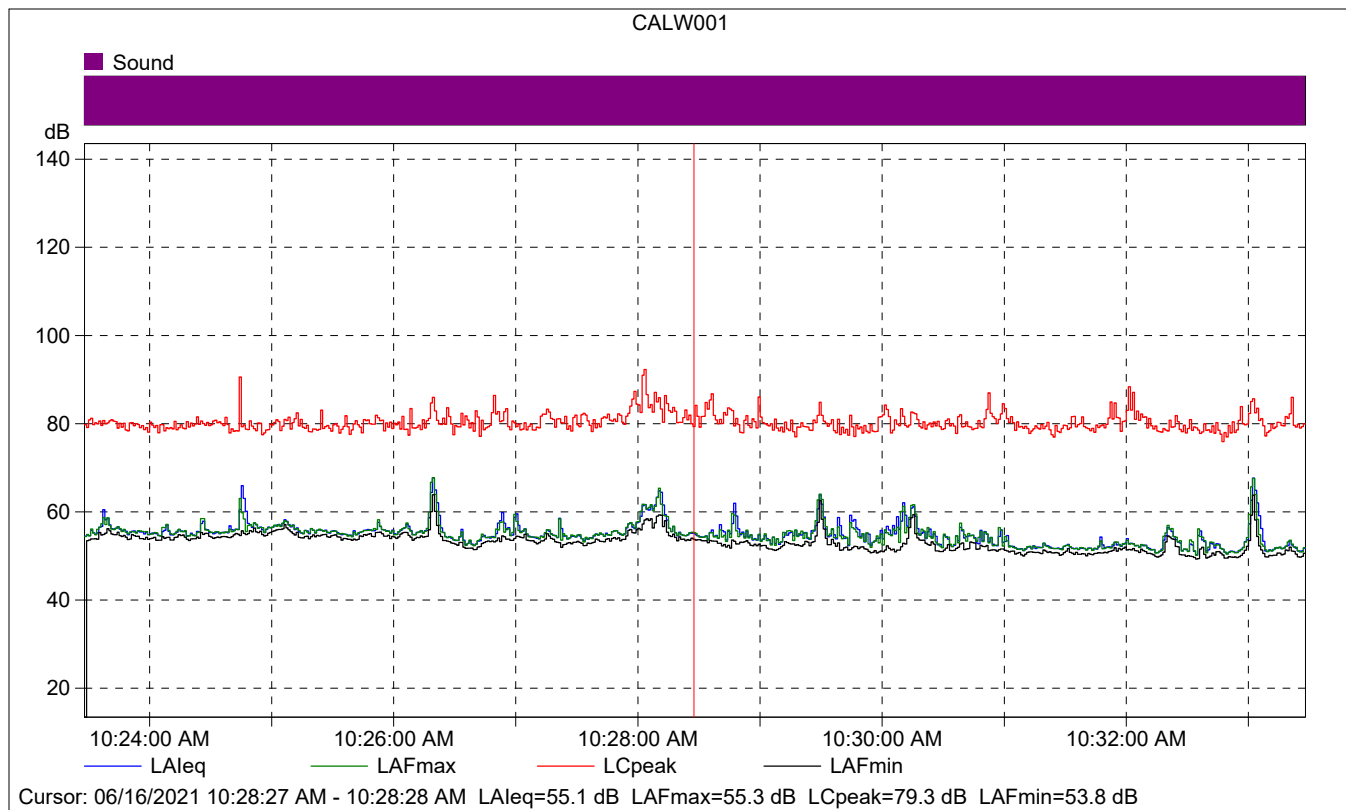
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		06/16/2021 08:36:56
Calibration Type:		External reference
Sensitivity:		43.0239215493202 mV/Pa

CALW001

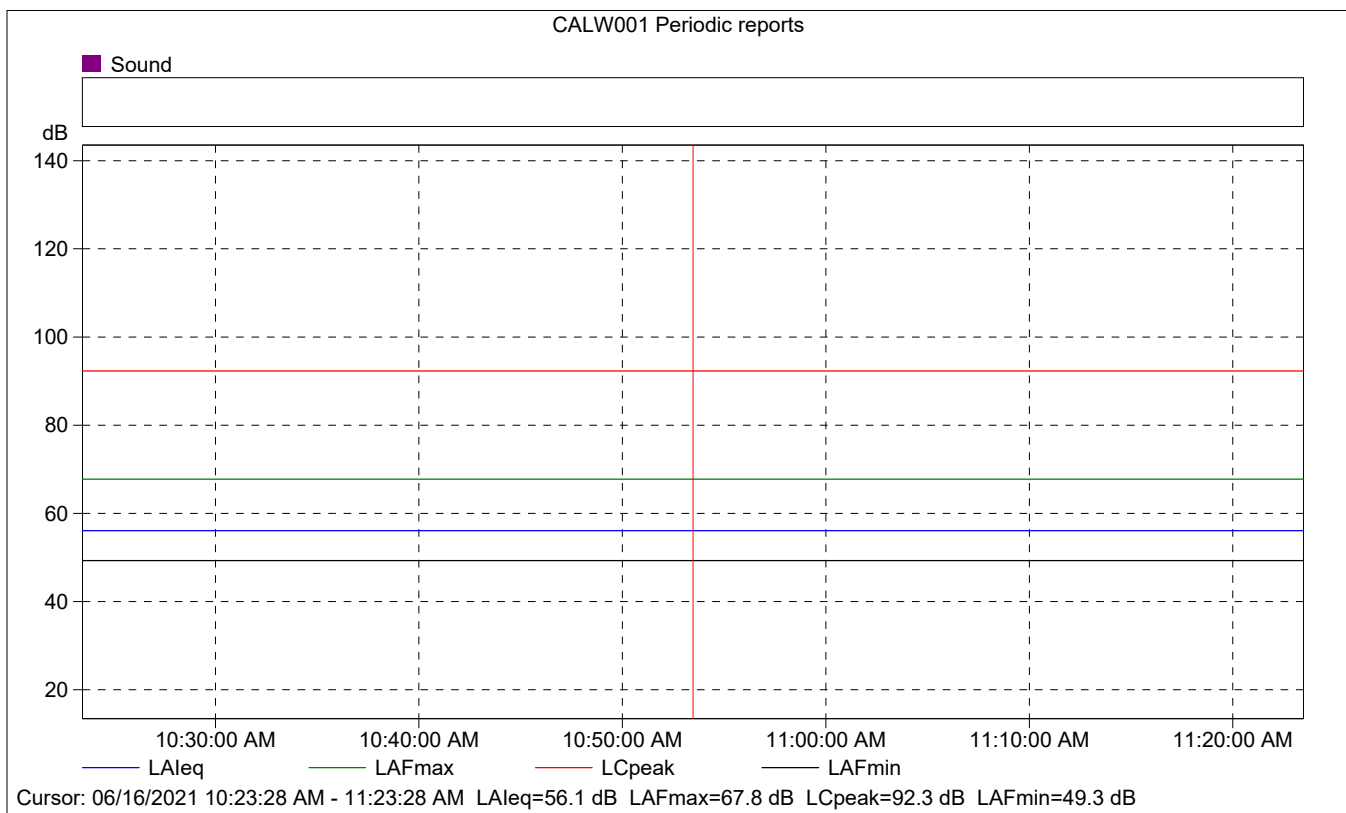
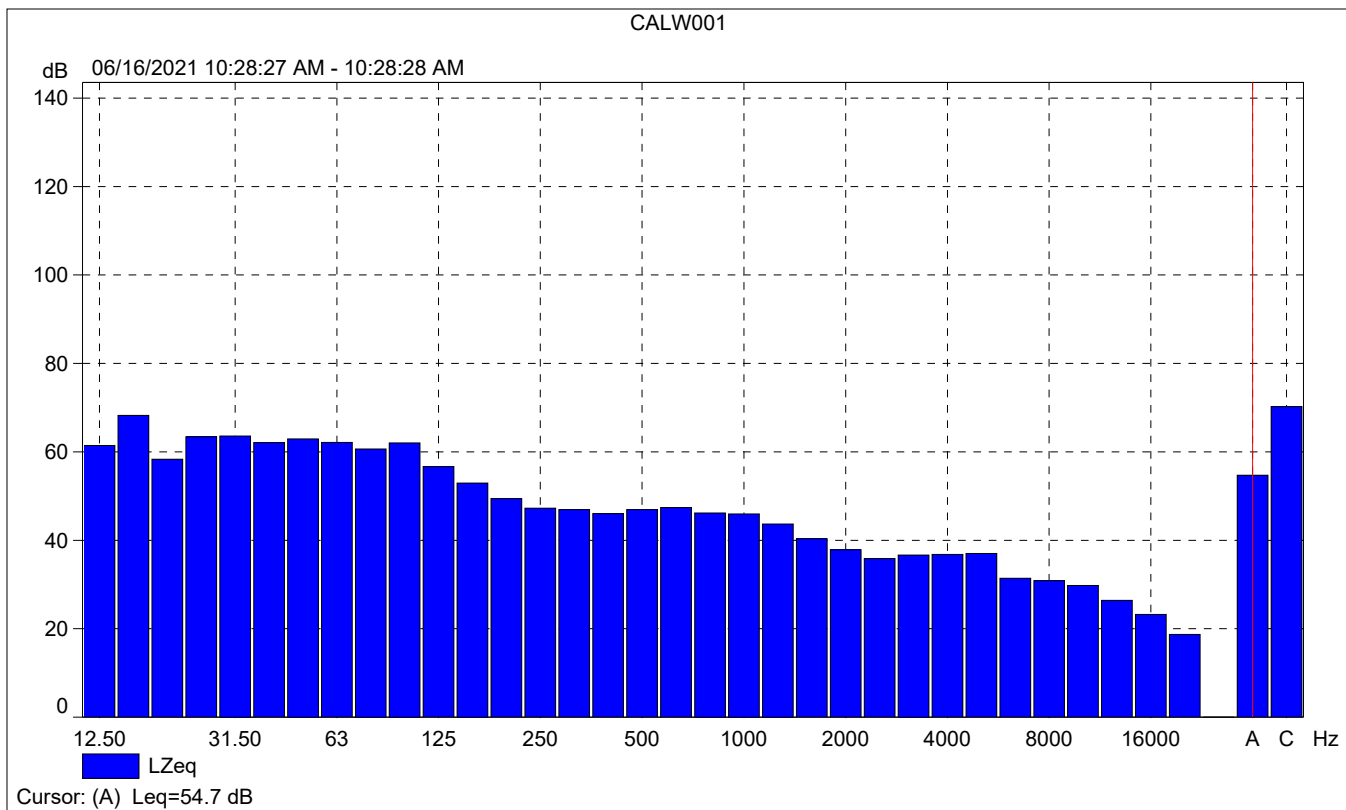
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	54.7	67.8	49.3
Time	10:23:28 AM	10:33:28 AM	0:10:00				
Date	06/16/2021	06/16/2021					





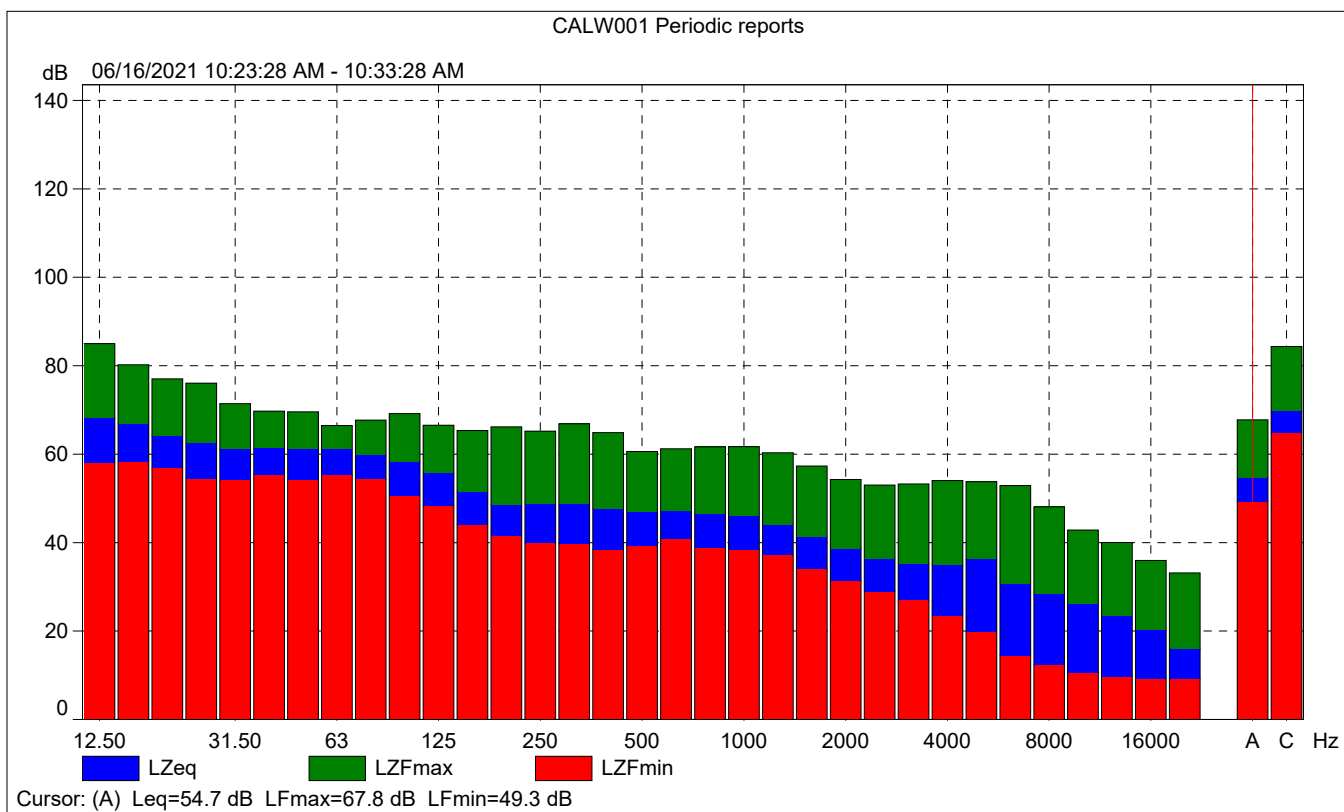
CALW001

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			55.1	55.3	53.8
Time	10:28:27 AM	0:00:01			
Date	06/16/2021				



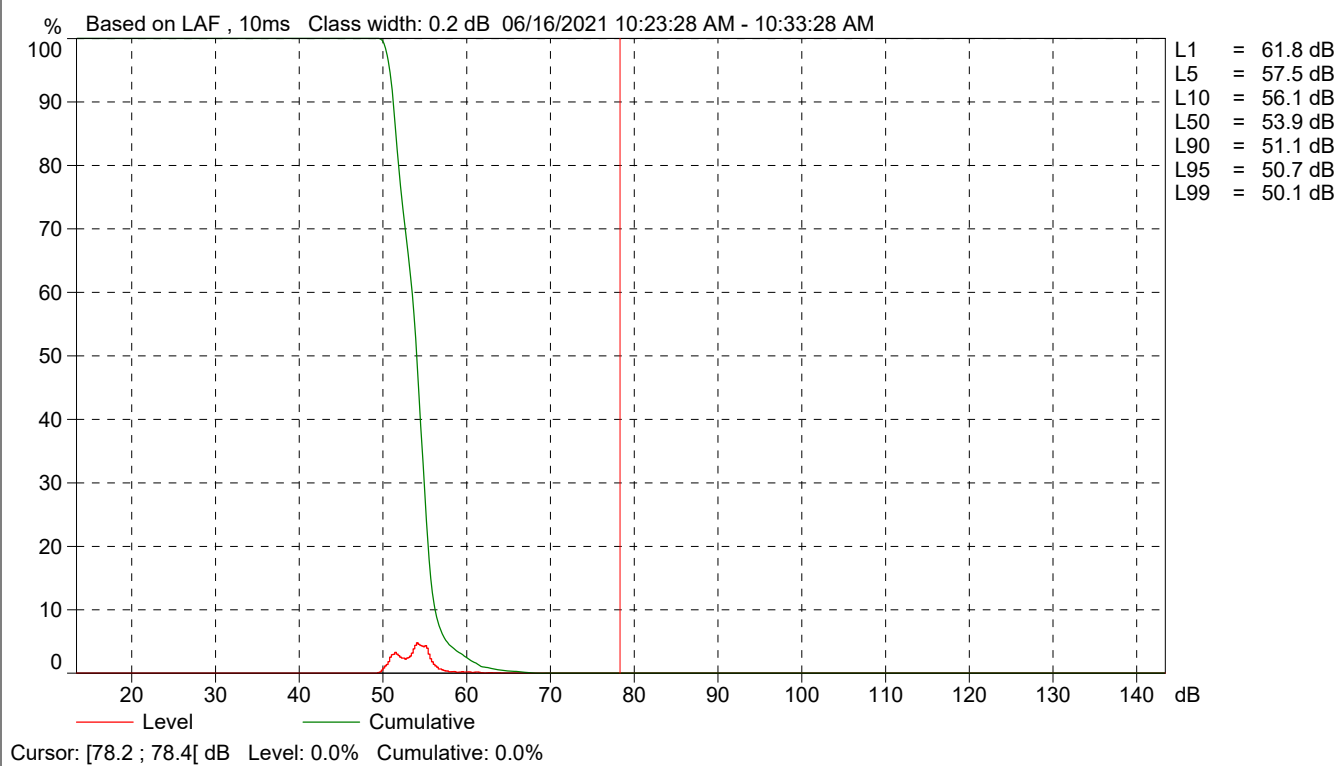
CALW001 Periodic reports

	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	56.1	67.8	49.3
Time	10:23:28 AM	0:10:00				
Date	06/16/2021					





CALW001 Periodic reports



Site Number: ST-2			
Recorded By: Danielle Regimbal			
Job Number: 182984			
Date: June 16, 2021			
Time: 10:46 A.M.			
Location: In front of Ambassador for Christ Worship Center.			
Source of Peak Noise: Cars driving along Long Beach Boulevard.			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
68.7	85.7	53.8	114.9

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	04/08/2019	
	Microphone	Brüel & Kjær	4189	3086765	04/08/2019	
	Preamp	Brüel & Kjær	ZC 0032	25380	04/08/2019	
	Calibrator	Brüel & Kjær	4231	2545667	04/08/2019	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny/Clear		
	Note: dBA Offset = -0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	9 mph		77		29.83	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		06/16/2021 10:46:00
End Time:		06/16/2021 10:56:00
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.24

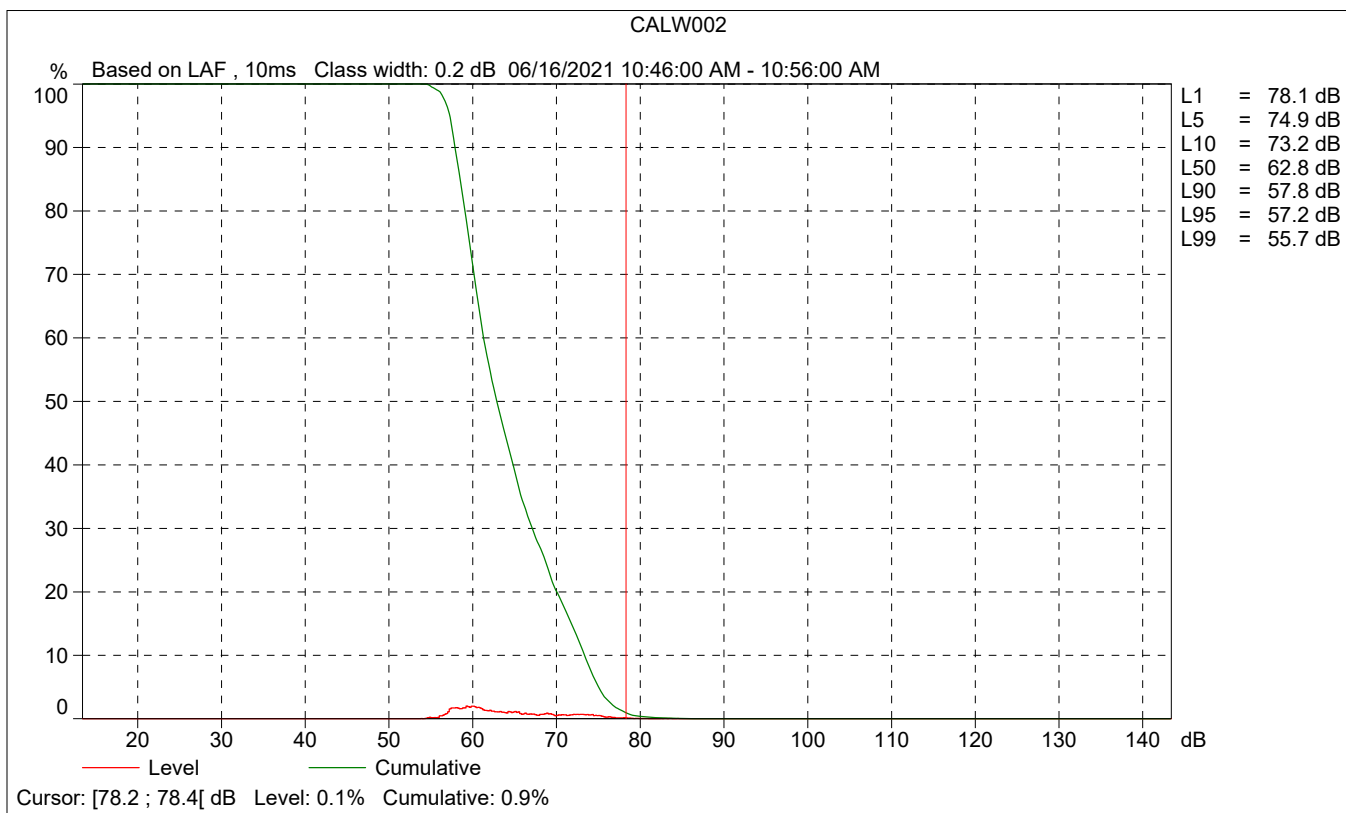
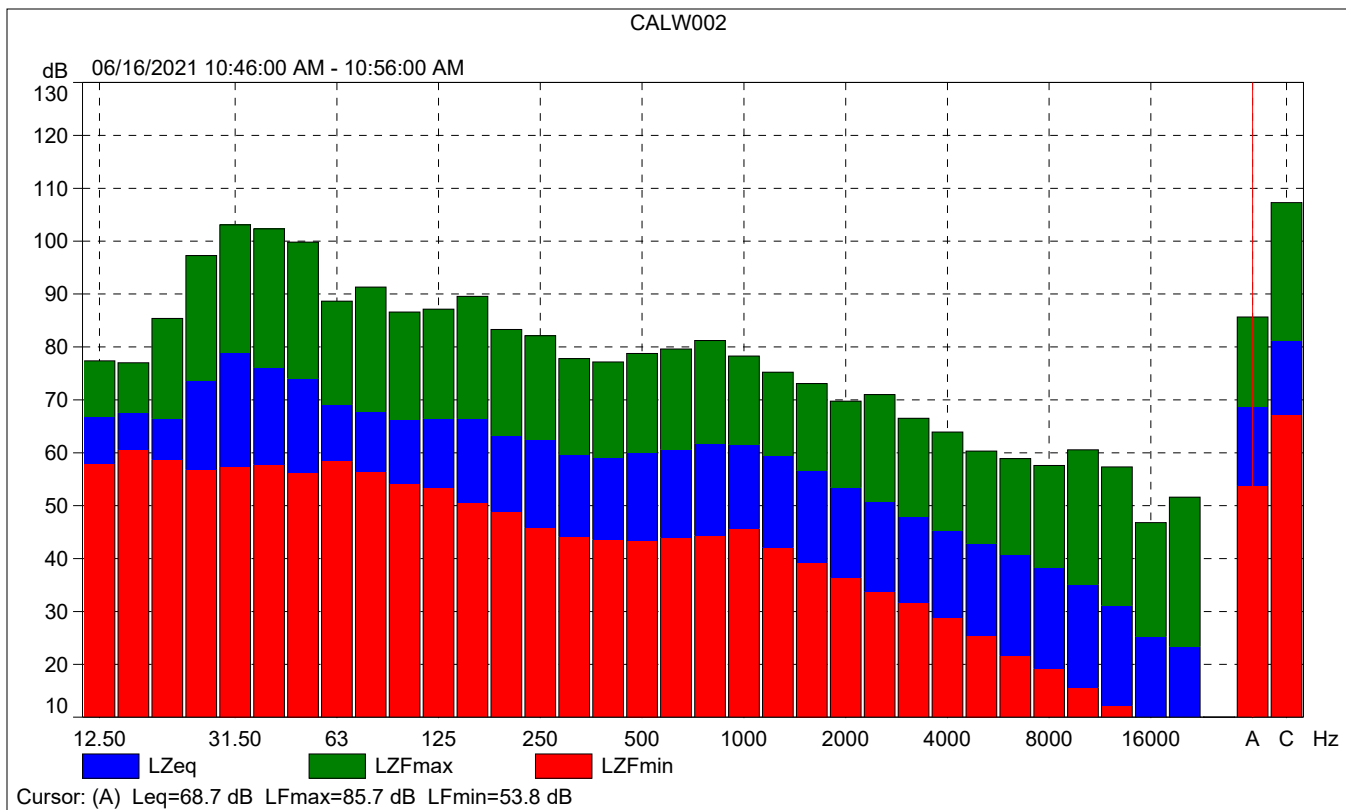
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

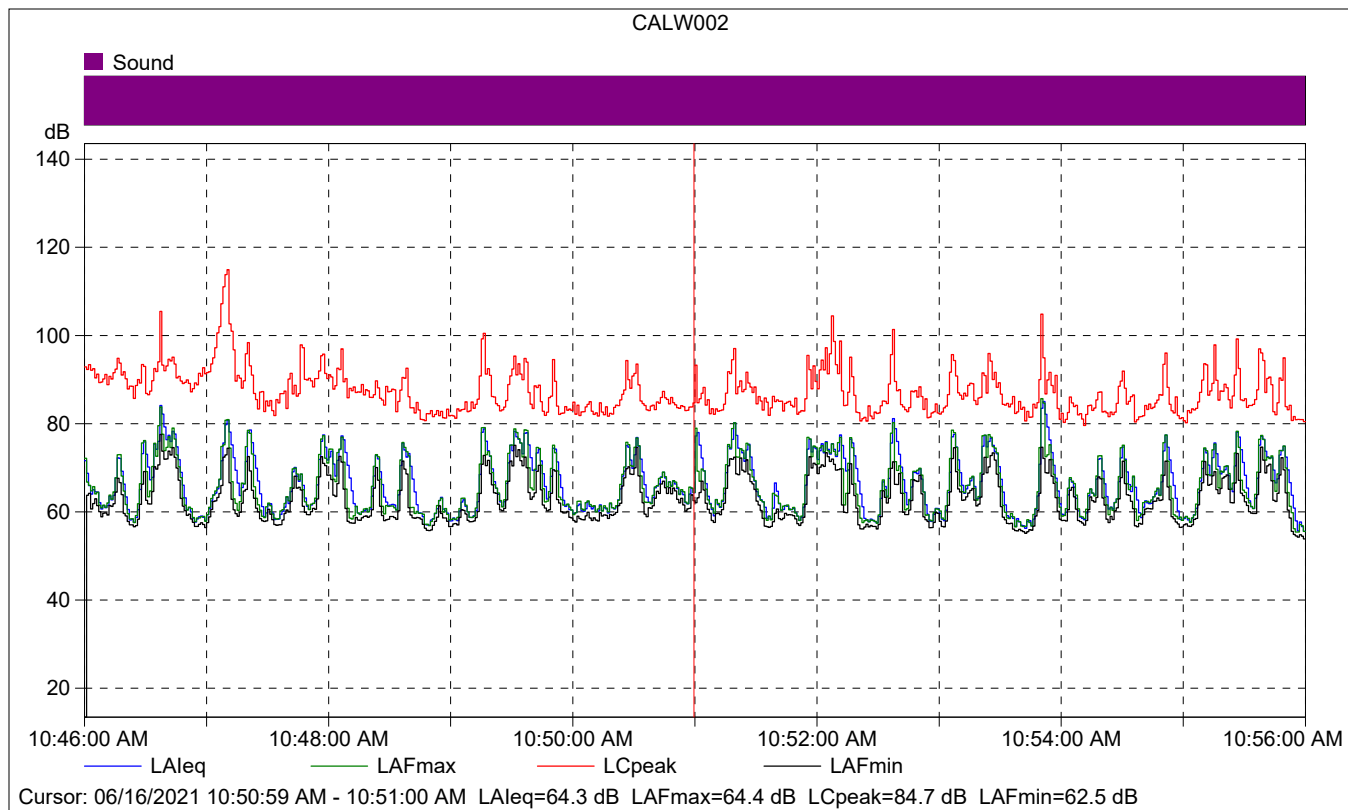
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		06/16/2021 08:36:56
Calibration Type:		External reference
Sensitivity:		43.0239215493202 mV/Pa

CALW002

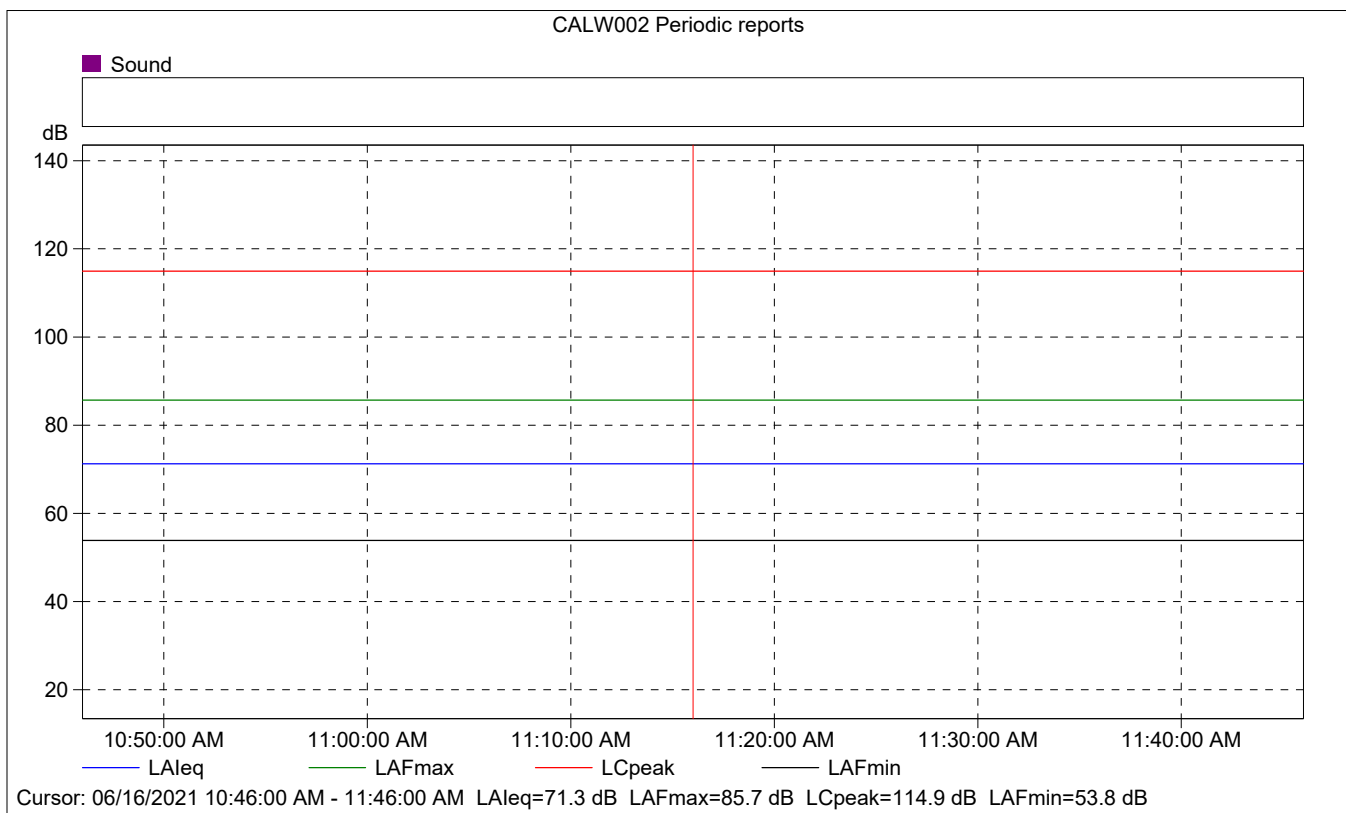
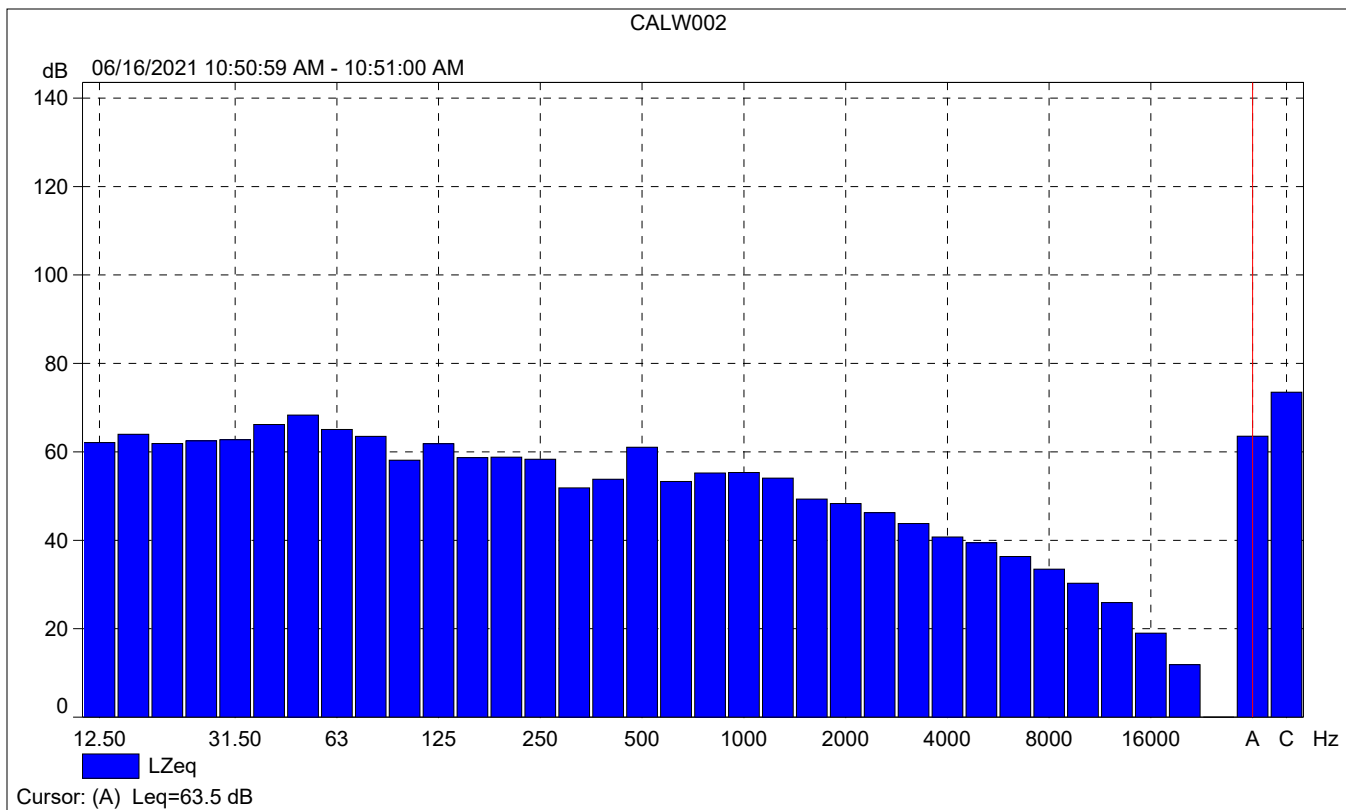
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	68.7	85.7	53.8
Time	10:46:00 AM	10:56:00 AM	0:10:00				
Date	06/16/2021	06/16/2021					





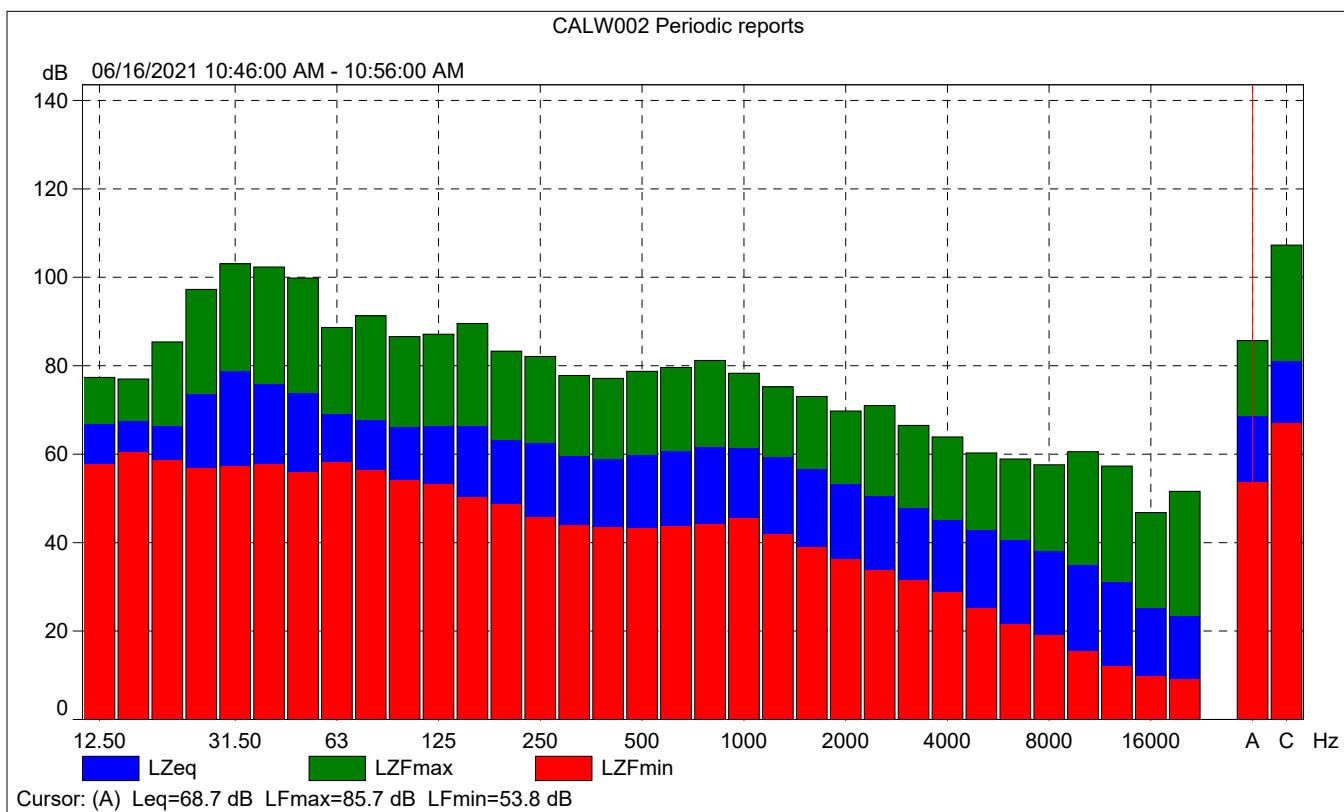
CALW002

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			64.3	64.4	62.5
Time	10:50:59 AM	0:00:01			
Date	06/16/2021				



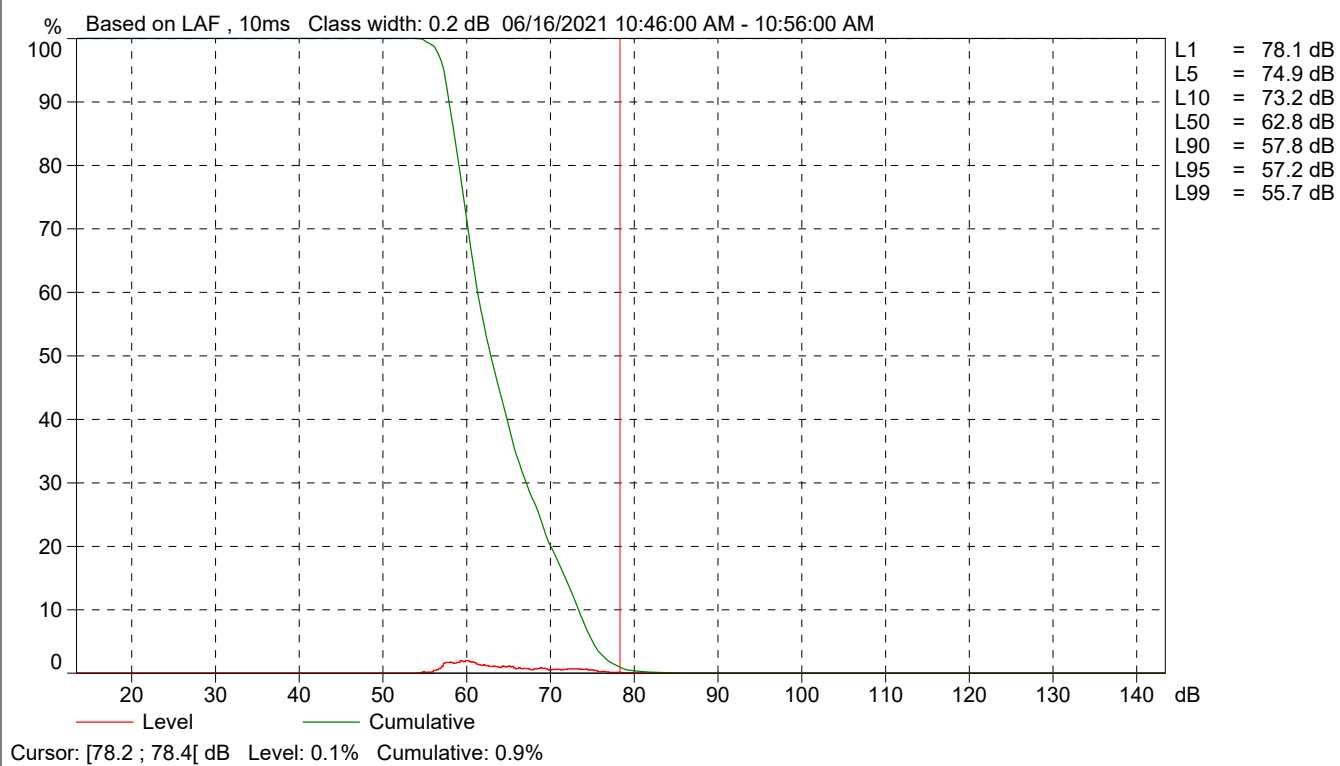
CALW002 Periodic reports

	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	71.3	85.7	53.8
Time	10:46:00 AM	0:10:00				
Date	06/16/2021					





CALW002 Periodic reports



Site Number: ST-3			
Recorded By: Danielle Regimbal			
Job Number: 182984			
Date: June 16, 2021			
Time: 11:06 A.M.			
Location: Southeast corner of Susana Road and Victoria Street intersection, adjacent to Colin Powell Elementary School.			
Source of Peak Noise: Cars driving along Victoria Street and Susana Road.			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
71.0	88.2	56.5	108.2

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	04/08/2019	
	Microphone	Brüel & Kjær	4189	3086765	04/08/2019	
	Preamp	Brüel & Kjær	ZC 0032	25380	04/08/2019	
	Calibrator	Brüel & Kjær	4231	2545667	04/08/2019	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny/Clear		
	Note: dBA Offset = -0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	9 mph		77		29.83	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		06/16/2021 11:06:41
End Time:		06/16/2021 11:16:41
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.24

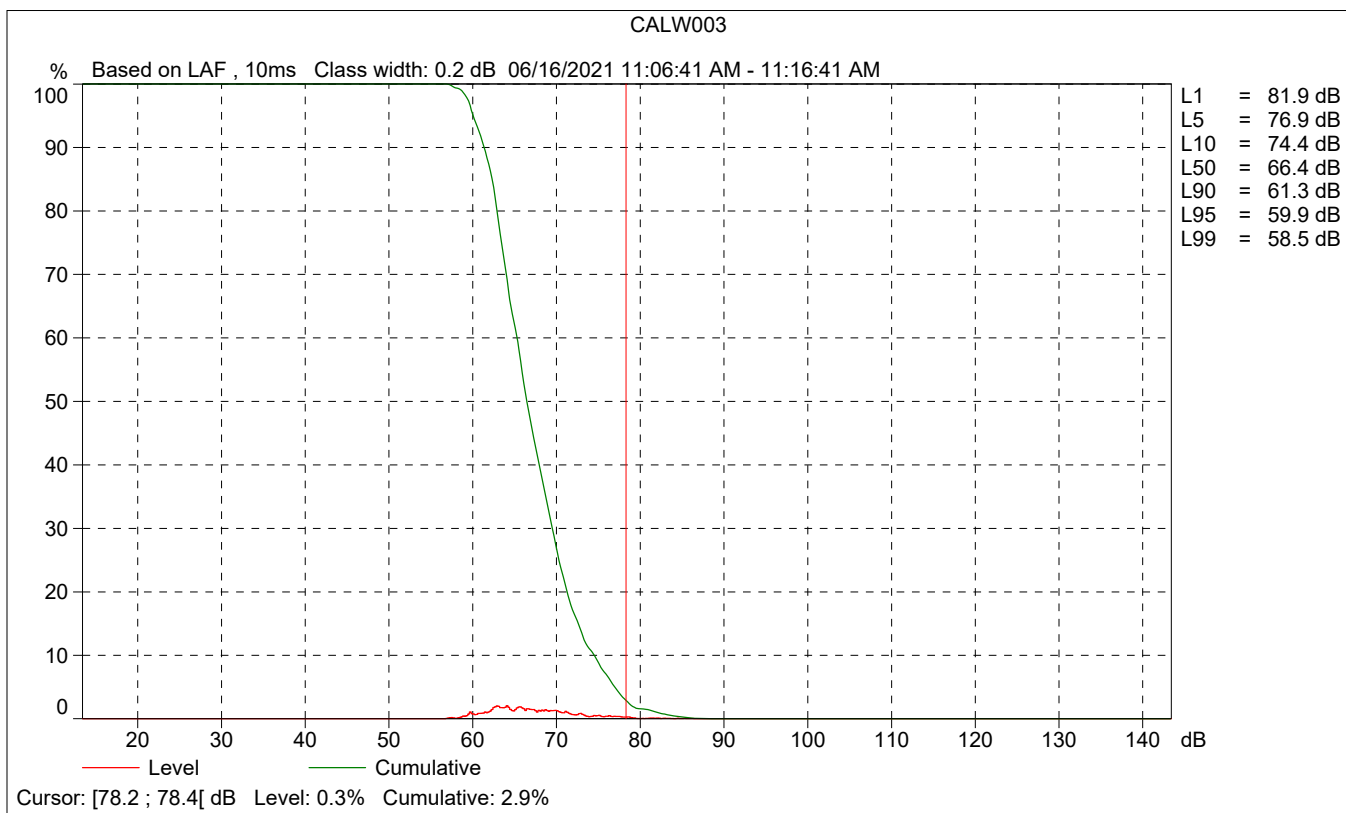
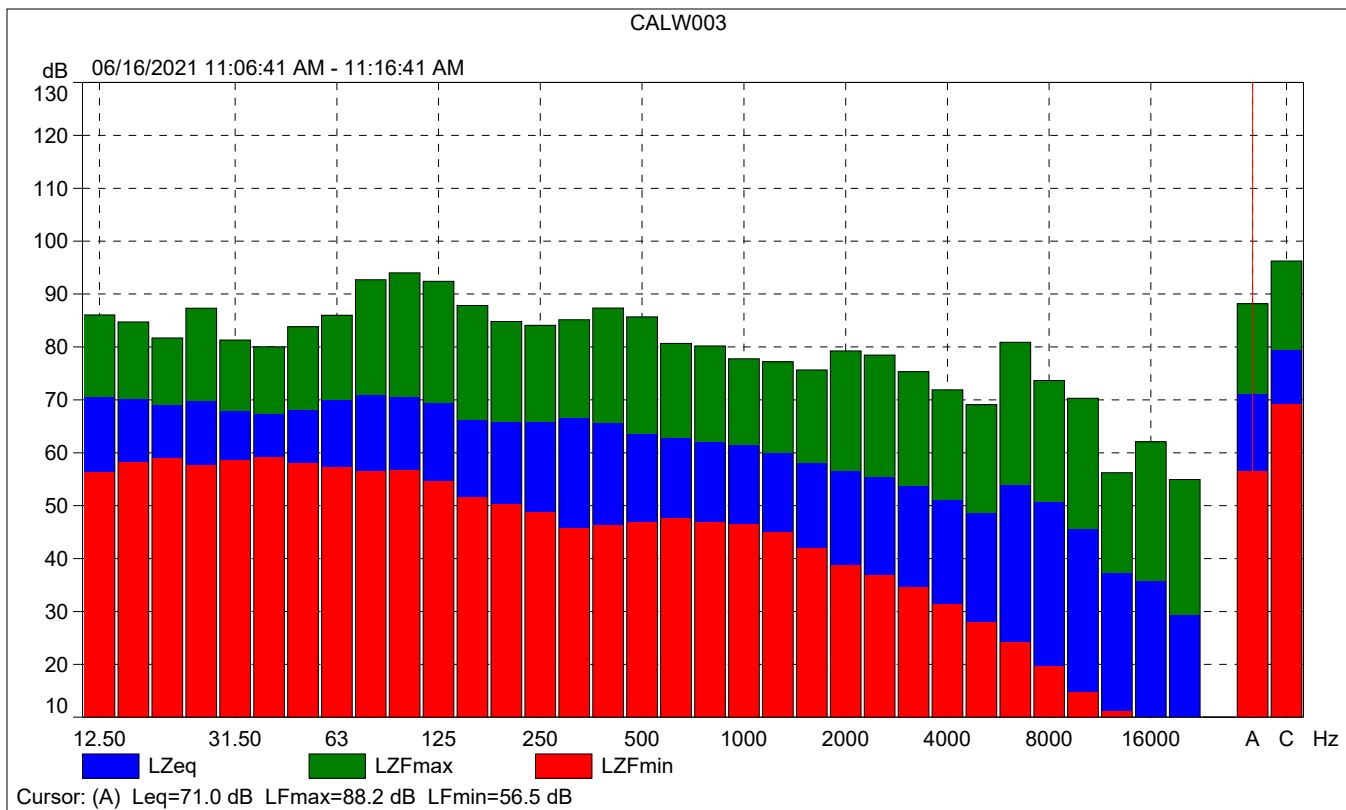
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

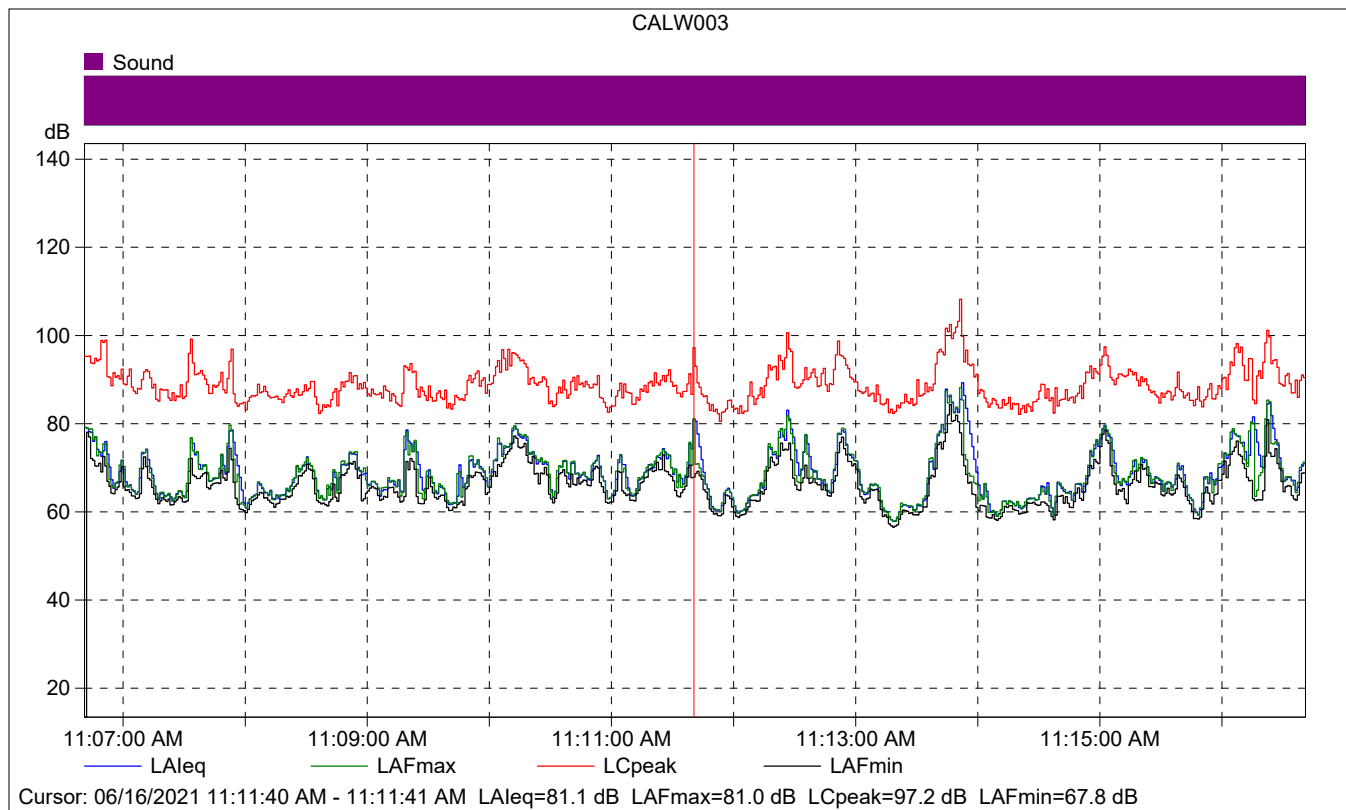
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		06/16/2021 08:36:56
Calibration Type:		External reference
Sensitivity:		43.0239215493202 mV/Pa

CALW003

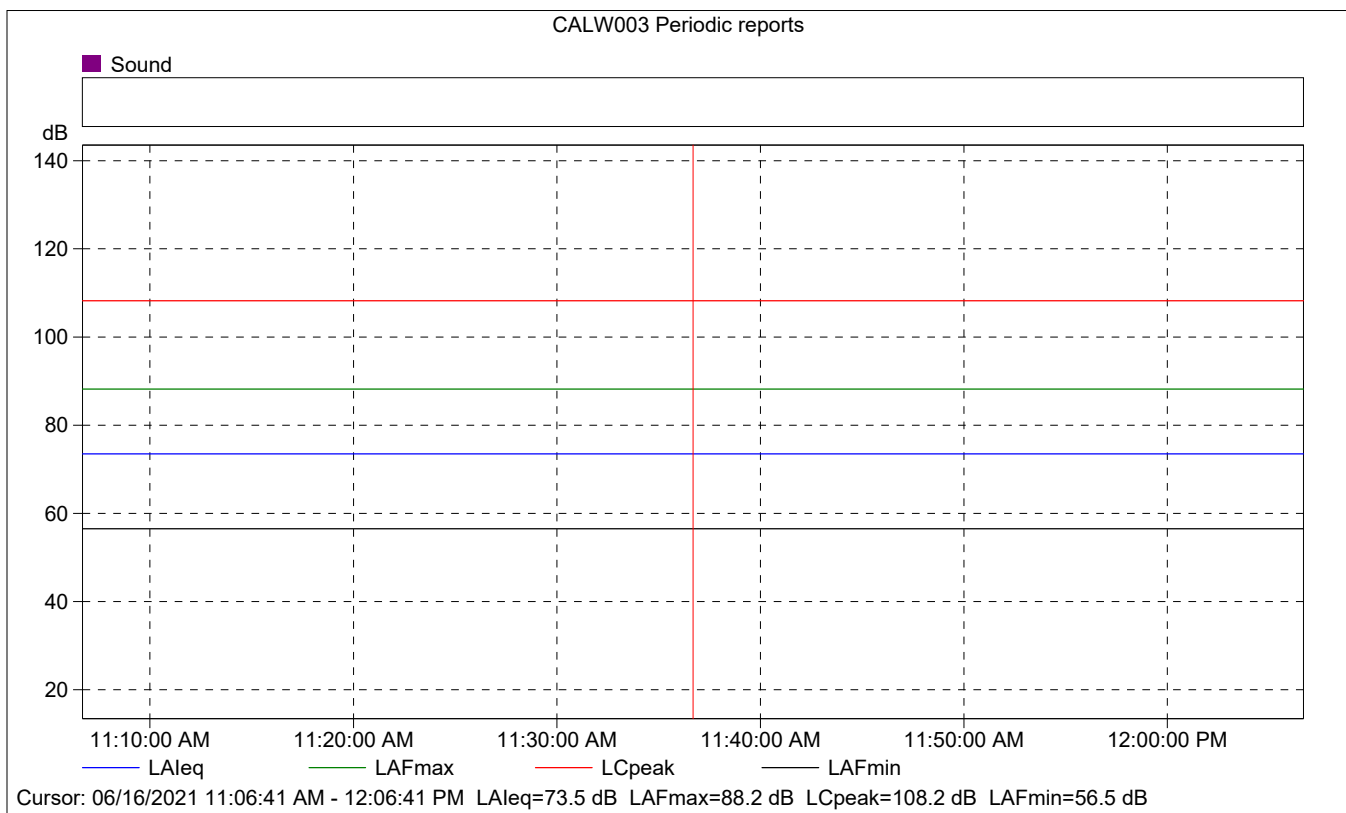
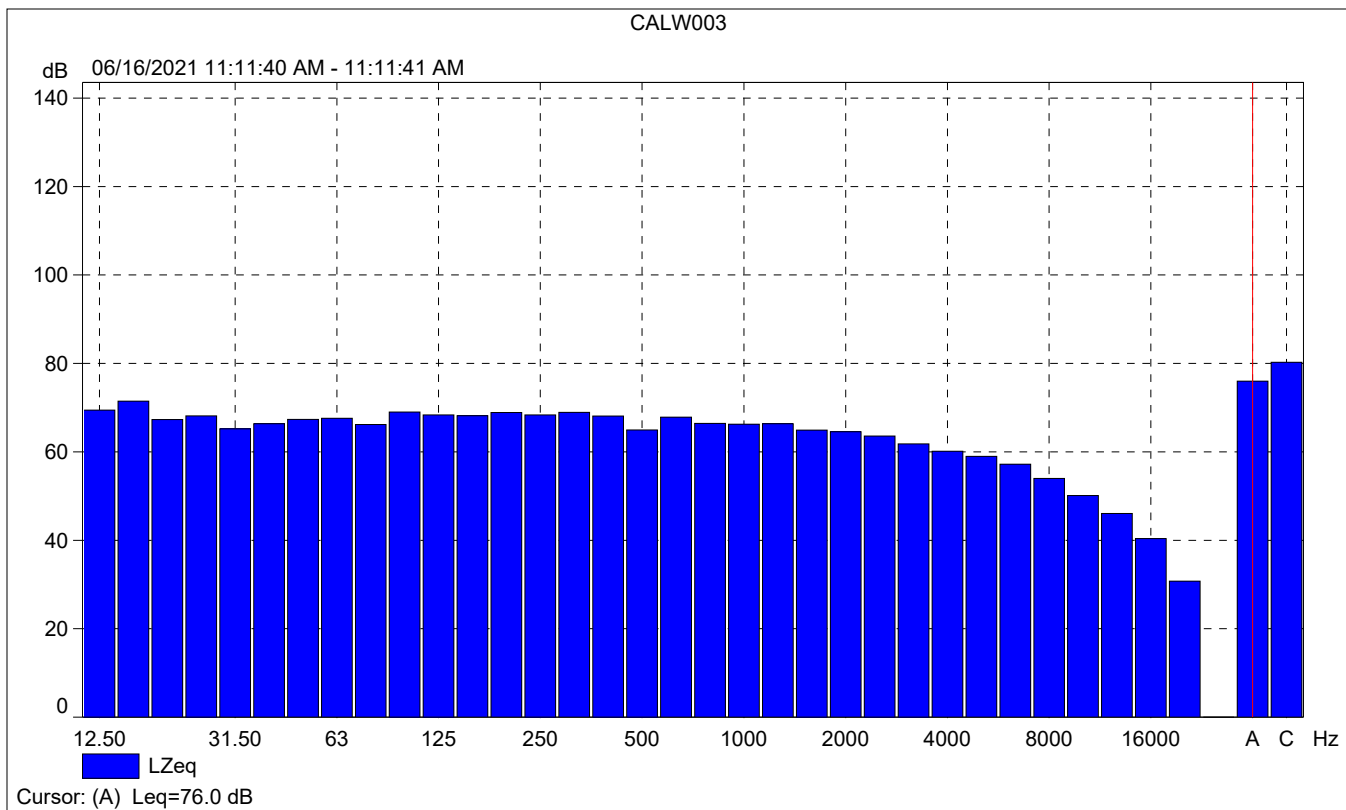
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	71.0	88.2	56.5
Time	11:06:41 AM	11:16:41 AM	0:10:00				
Date	06/16/2021	06/16/2021					





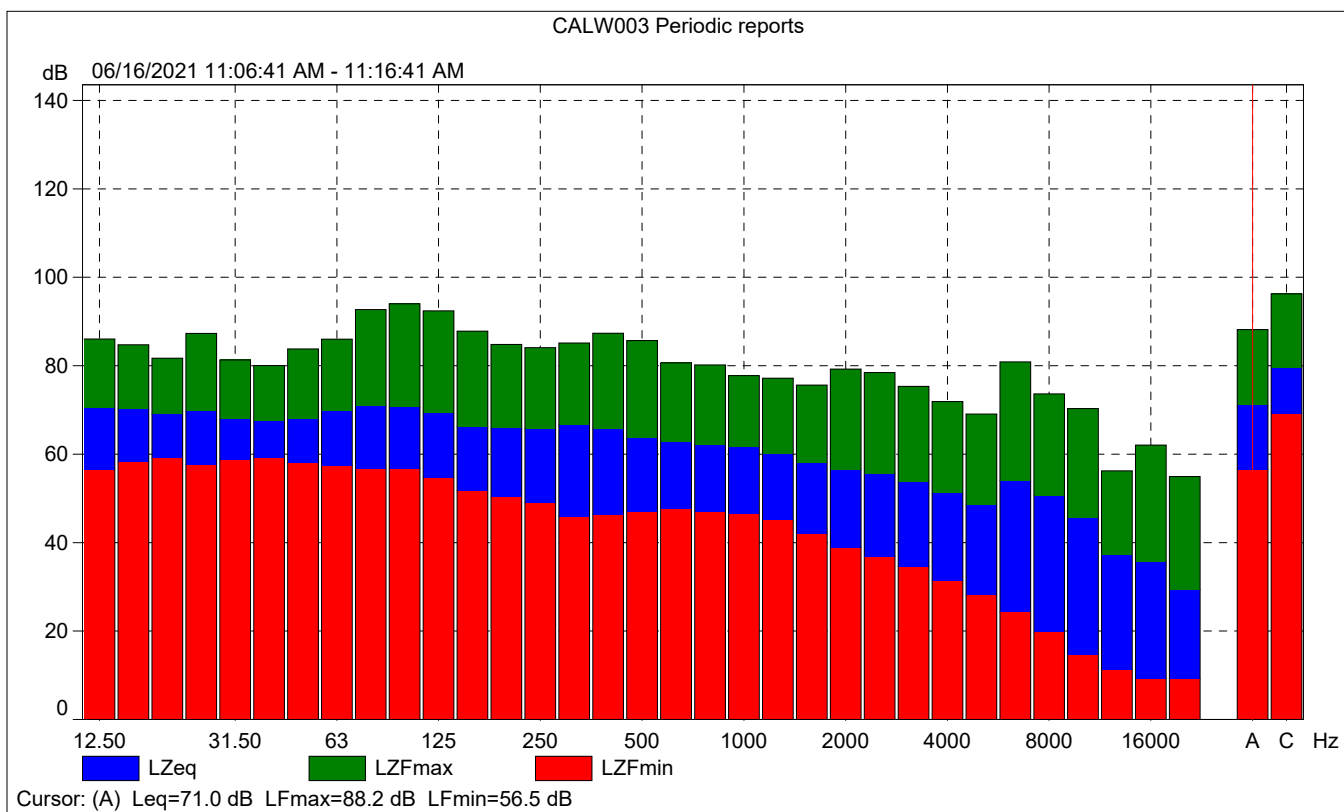
CALW003

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			81.1	81.0	67.8
Time	11:11:40 AM	0:00:01			
Date	06/16/2021				



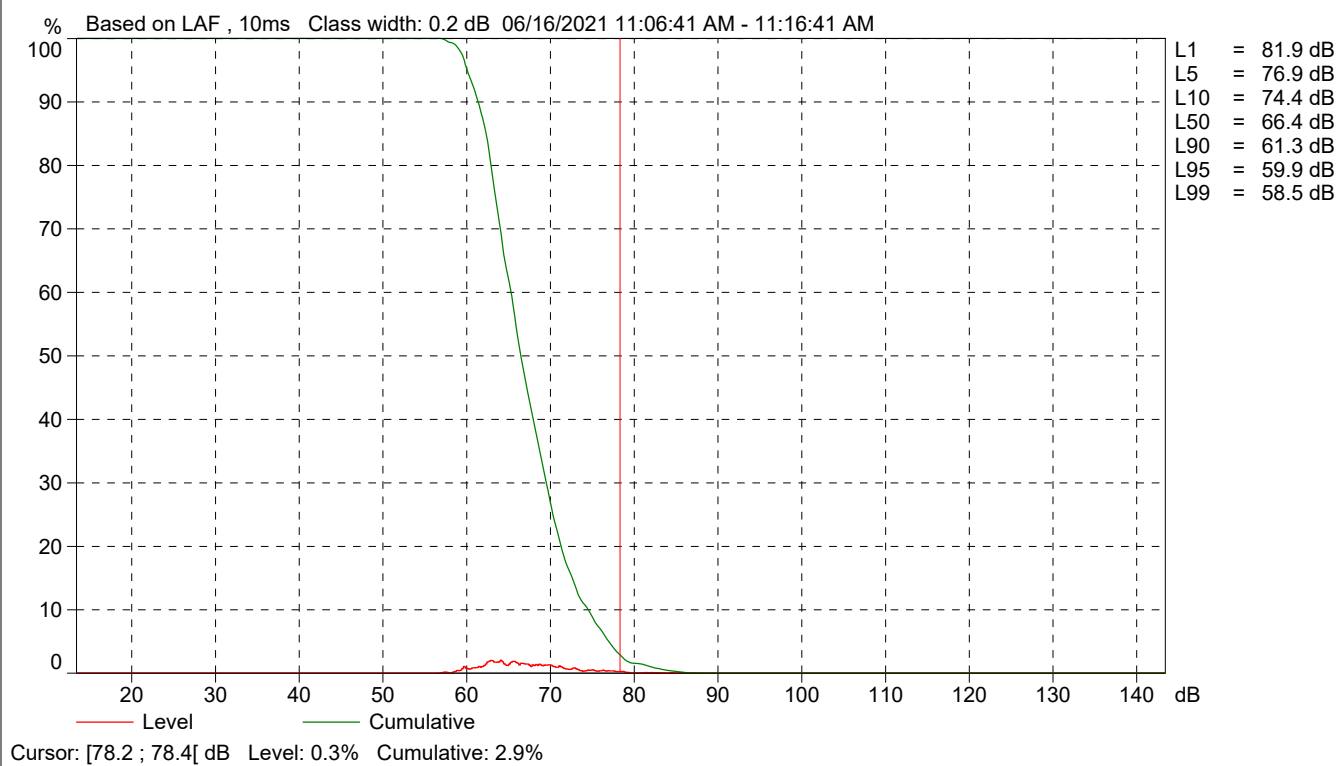
CALW003 Periodic reports

	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	73.5	88.2	56.5
Time	11:06:41 AM	0:10:00				
Date	06/16/2021					





CALW003 Periodic reports



Measurement Report

Report Summary

Meter's File Name	LxT_Data.001.s	Computer's File Name	LxTse_0003296-20210613 223541-LxT_Data.001.ldbin
Meter	LxT SE 0003296		
Firmware	2.404		
User		Location	
Job Description			
Note			

Start Time	2021-06-13 22:35:41	Duration	24:09:12.4		
End Time	2021-06-14 22:44:54	Run Time	24:09:12.4	Pause Time	0:00:00.0

*Start Time Measured in Field: 2021-06-16 10:35:41

*End Time Measured in Field: 2021-06-17 10:44:54

Results

Overall Metrics

LA _{eq}	65.3 dB		
LAE	114.7 dB	SEA	144.6 dB
EA	32.4 mPa ² h		
LZ _{peak}	127.6 dB	2021-06-14 10:13:27	
LAS _{max}	94.0 dB	2021-06-14 08:19:42	
LAS _{min}	44.7 dB	2021-06-14 15:56:11	
LA _{eq}	65.3 dB		
LC _{eq}	74.7 dB	LC _{eq} - LA _{eq}	9.5 dB
LAI _{eq}	69.3 dB	LAI _{eq} - LA _{eq}	4.0 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	18	0:00:38.8
LAS > 115.0 dB	0	0:00:00.0
LZ _{peak} > 135.0 dB	0	0:00:00.0
LZ _{peak} > 137.0 dB	0	0:00:00.0
LZ _{peak} > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight	
72.7 dB	64.2 dB	0.0 dB	
	*LNight		*LDay
LDEN	LDay	LEve	LNight
73.0 dB	63.5 dB	66.2 dB	66.6 dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	65.3 dB		74.7 dB		---	
L _{S(max)}	94.0 dB	2021-06-14 08:19:42	---		---	
L _{S(min)}	44.7 dB	2021-06-14 15:56:11	---		---	
L _{Peak(max)}	---		---		127.6 dB	2021-06-14 10:13:27

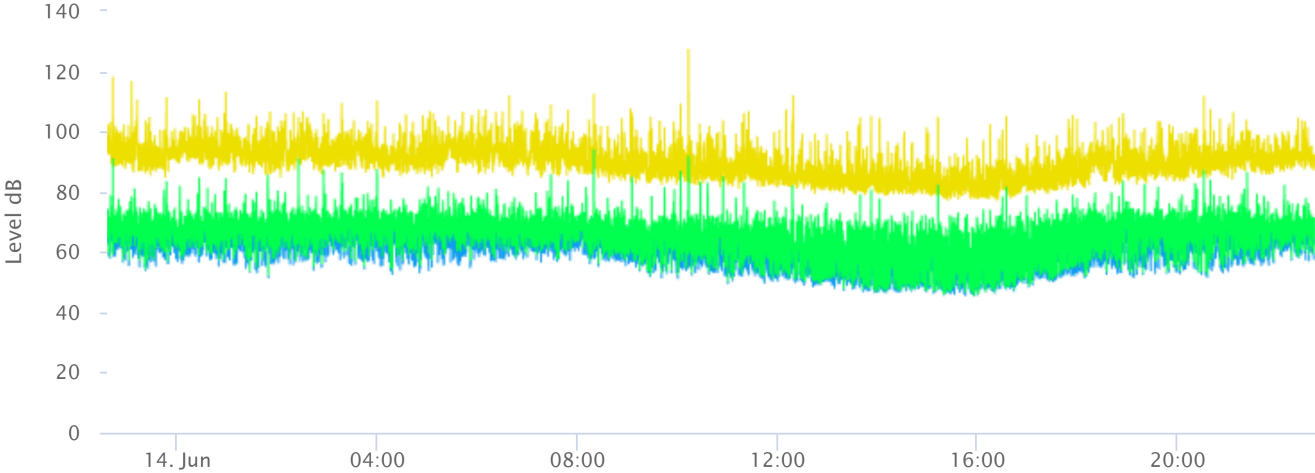
Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	7	0:00:14.2

Statistics

LAS 5.0	70.4 dB
LAS 10.0	68.7 dB
LAS 33.3	64.0 dB
LAS 50.0	61.2 dB
LAS 66.6	58.3 dB
LAS 90.0	51.4 dB

Time History

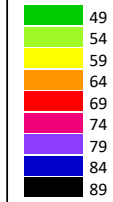


Pilot Hole Drilling Construction Noise Levels

Date: 7/13/2021

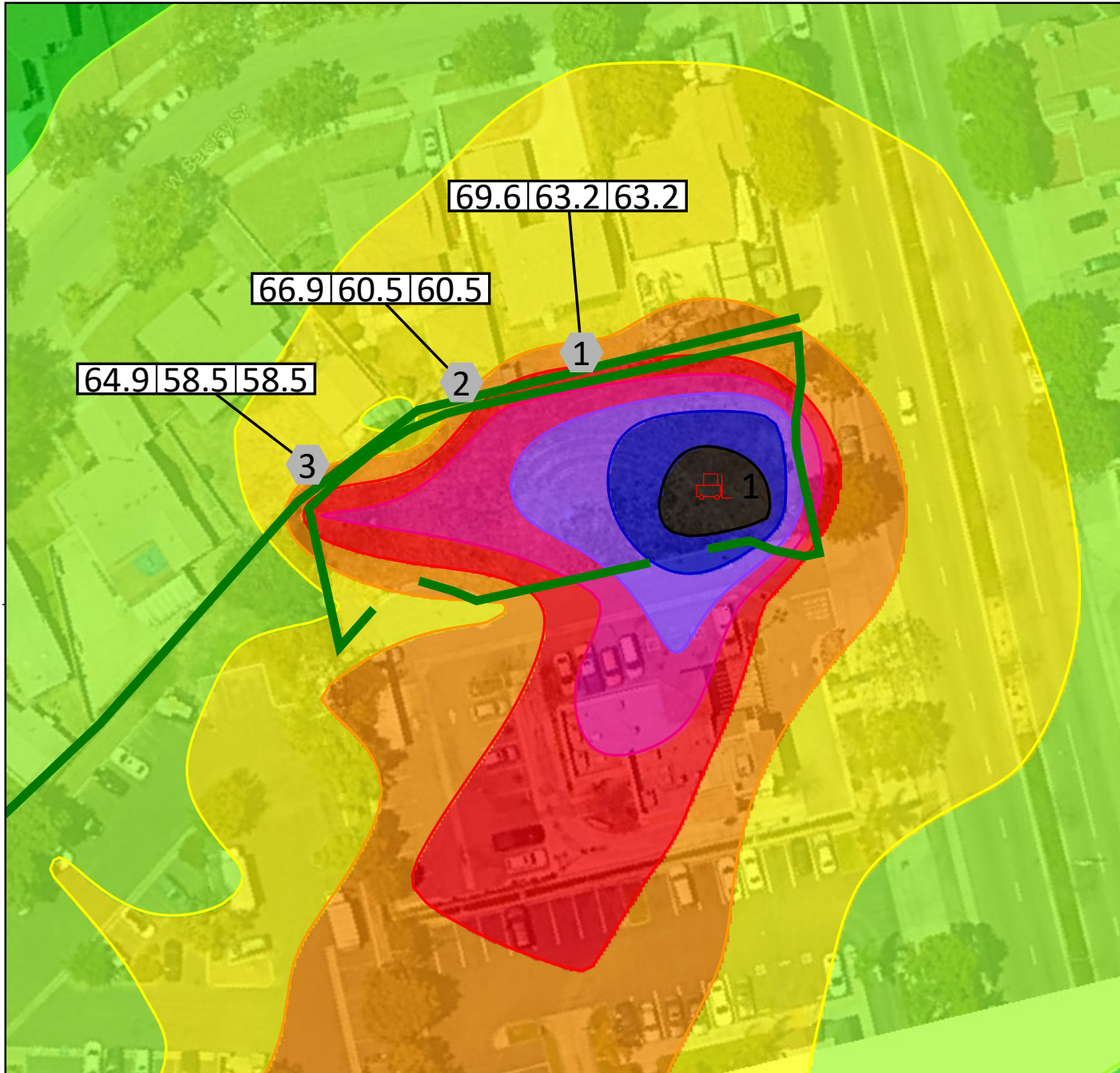
SoundPLAN Version 8.3

Levels Leq,n in dB(A)



Signs and symbols

- Wall
- Receptor
- Level Table (Ldn/Leq,d/Leq,n)
- Hydraulic Rotary Drilling Rig



Length scale 1:454

