APPENDIX D
Noise Analysis

Site Number: NM-1	
Recorded By: Tina Yuan, Darshan Shivaiah	
Job Number: 191321	
Date: 9/21/22	
Time: 10:17 a.m.	
Location: In front of 1821 Harbor Avenue, along the sidewalk.	
Source of Peak Noise: Traffic along Harbor Avenue and Pacific Coast Highway.	

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
64.1	76.9	53.4	98.3

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 = -0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	5	74	29.96

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		09/21/2022 10:17:34
End Time:		09/21/2022 10:27:34
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.19

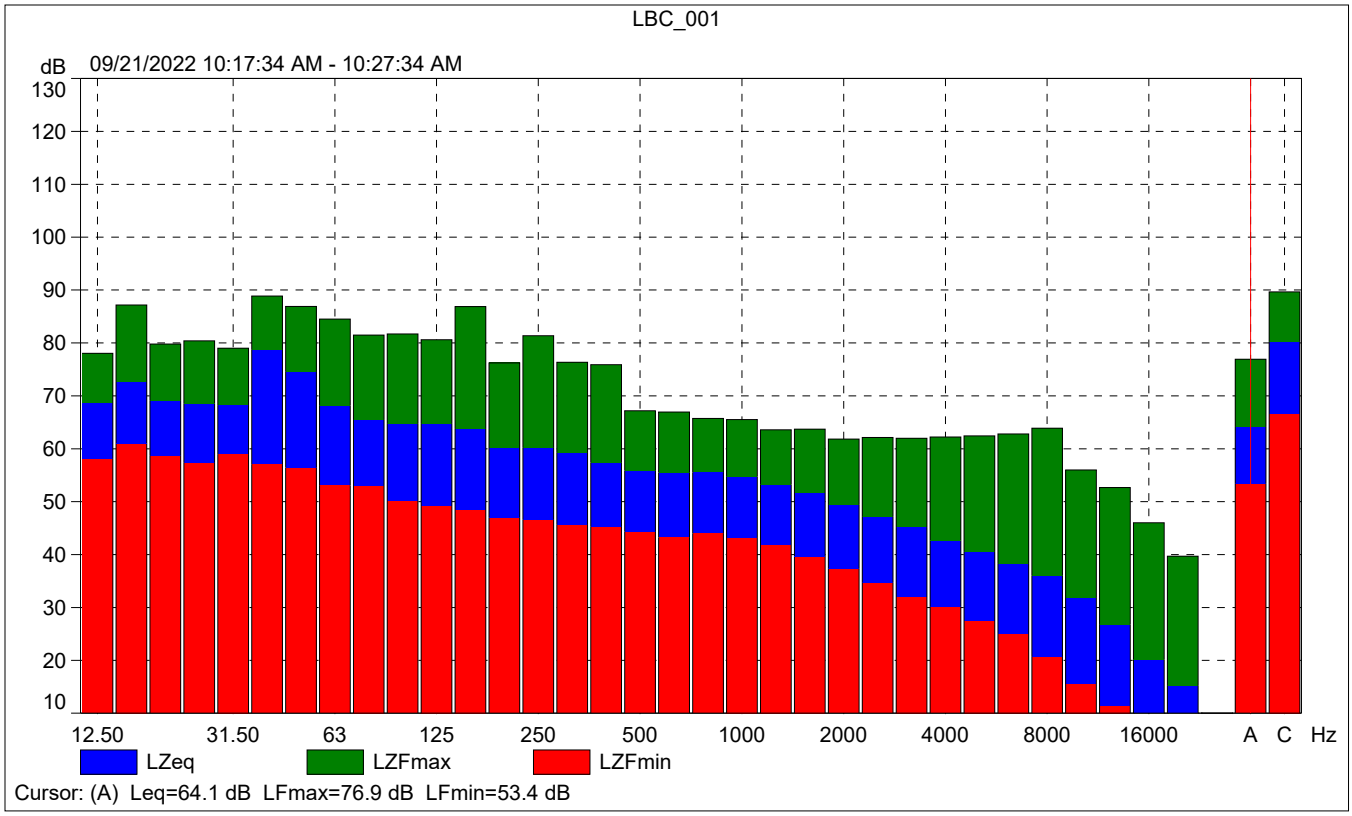
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

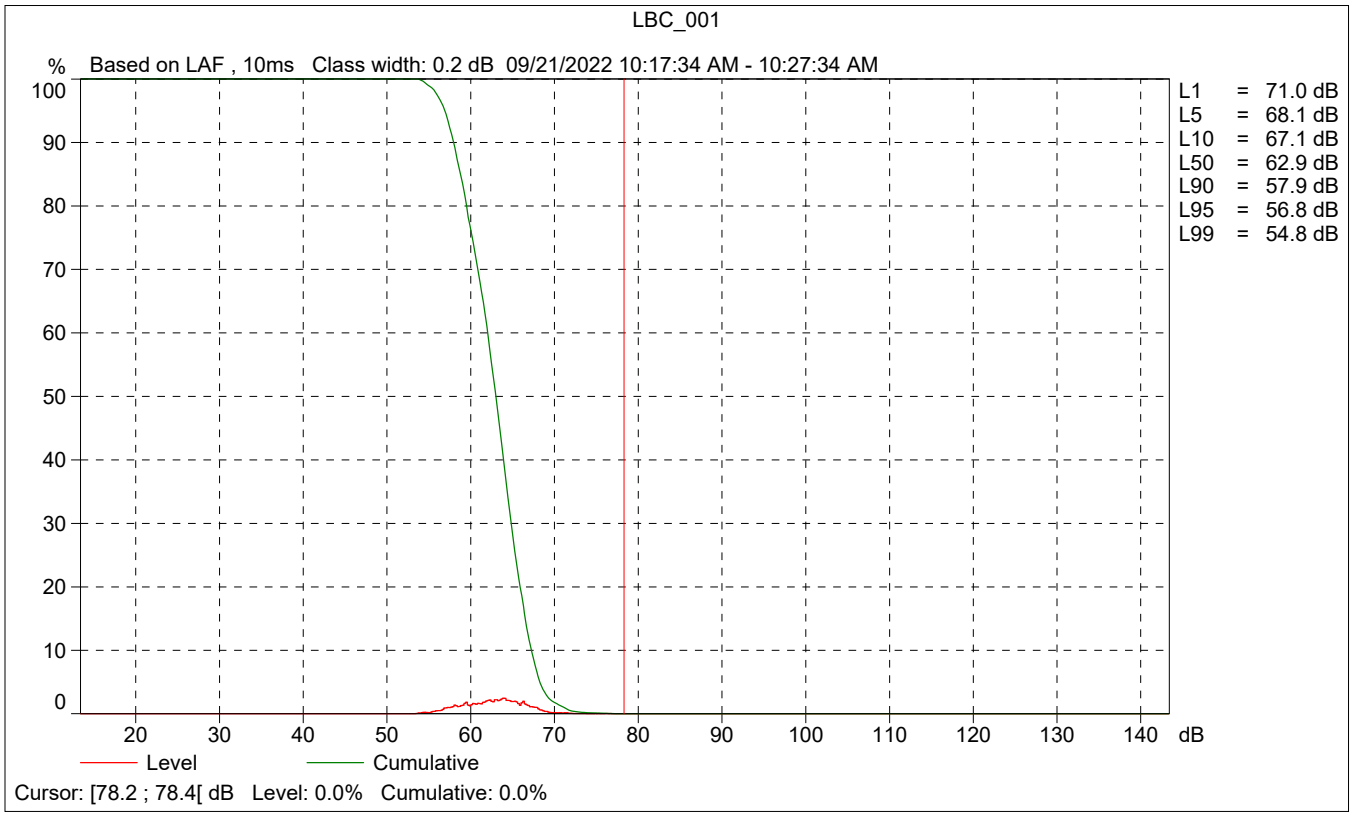
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

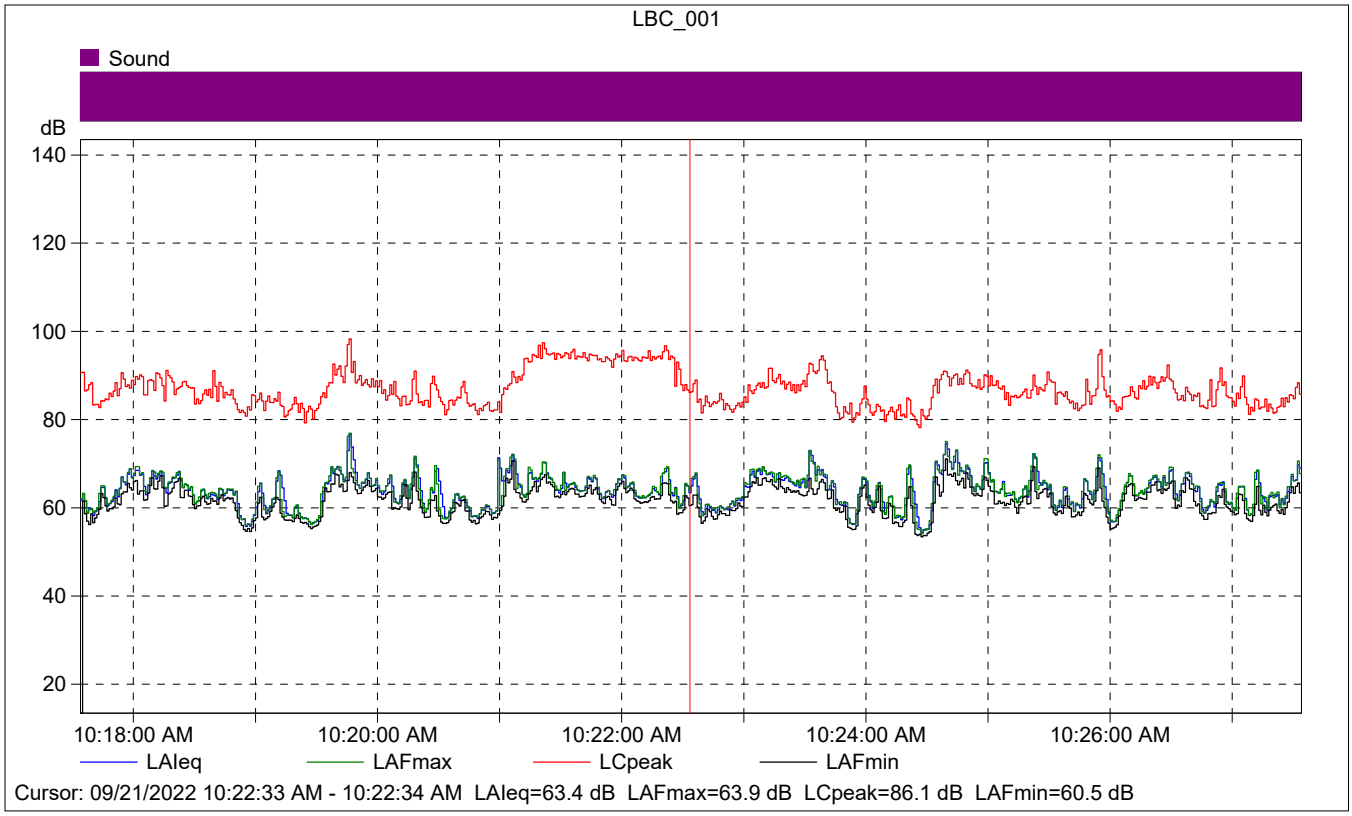
Calibration Time:		09/21/2022 08:58:47
Calibration Type:		External reference
Sensitivity:		43.2673208415508 mV/Pa

LBC_001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	64.1	76.9	53.4
Time	10:17:34 AM	10:27:34 AM	0:10:00				
Date	09/21/2022	09/21/2022					

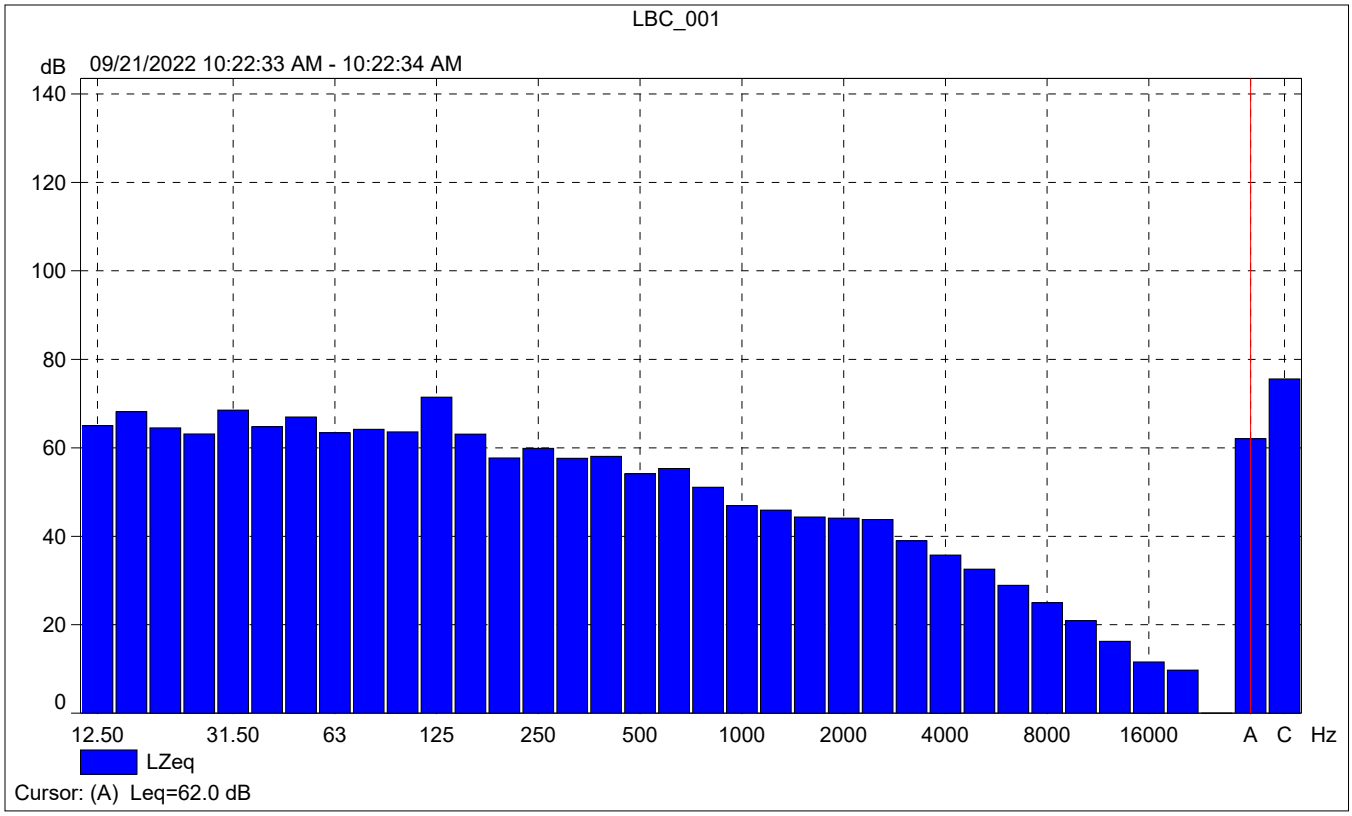

LBC_001
dB
09/21/2022 10:17:34 AM - 10:27:34 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=64.1 dB LFmax=76.9 dB LFmin=53.4 dB

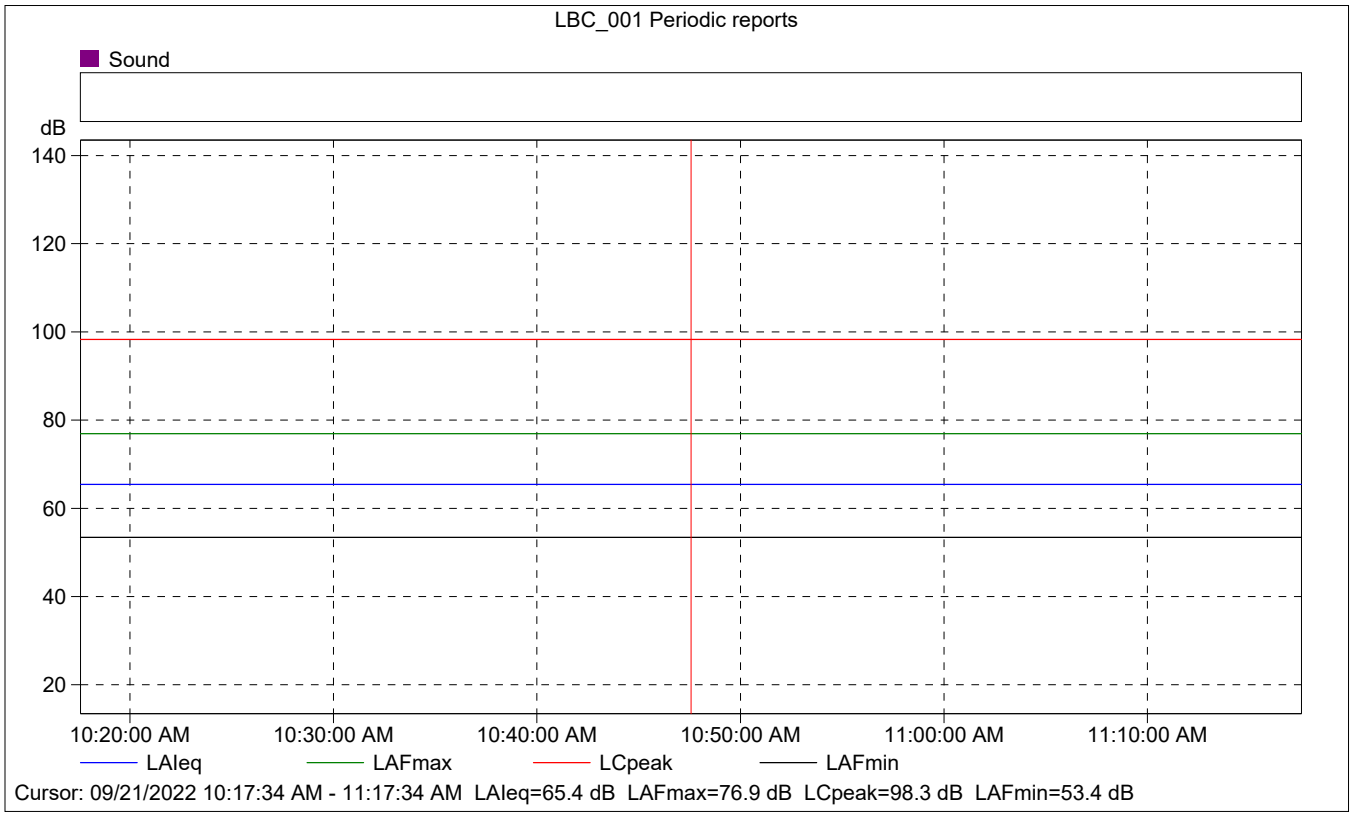

LBC_001
%
Based on LAF , 10ms Class width: 0.2 dB 09/21/2022 10:17:34 AM - 10:27:34 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 71.0 dB
L5 = 68.1 dB
L10 = 67.1 dB
L50 = 62.9 dB
L90 = 57.9 dB
L95 = 56.8 dB
L99 = 54.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



LBC_001

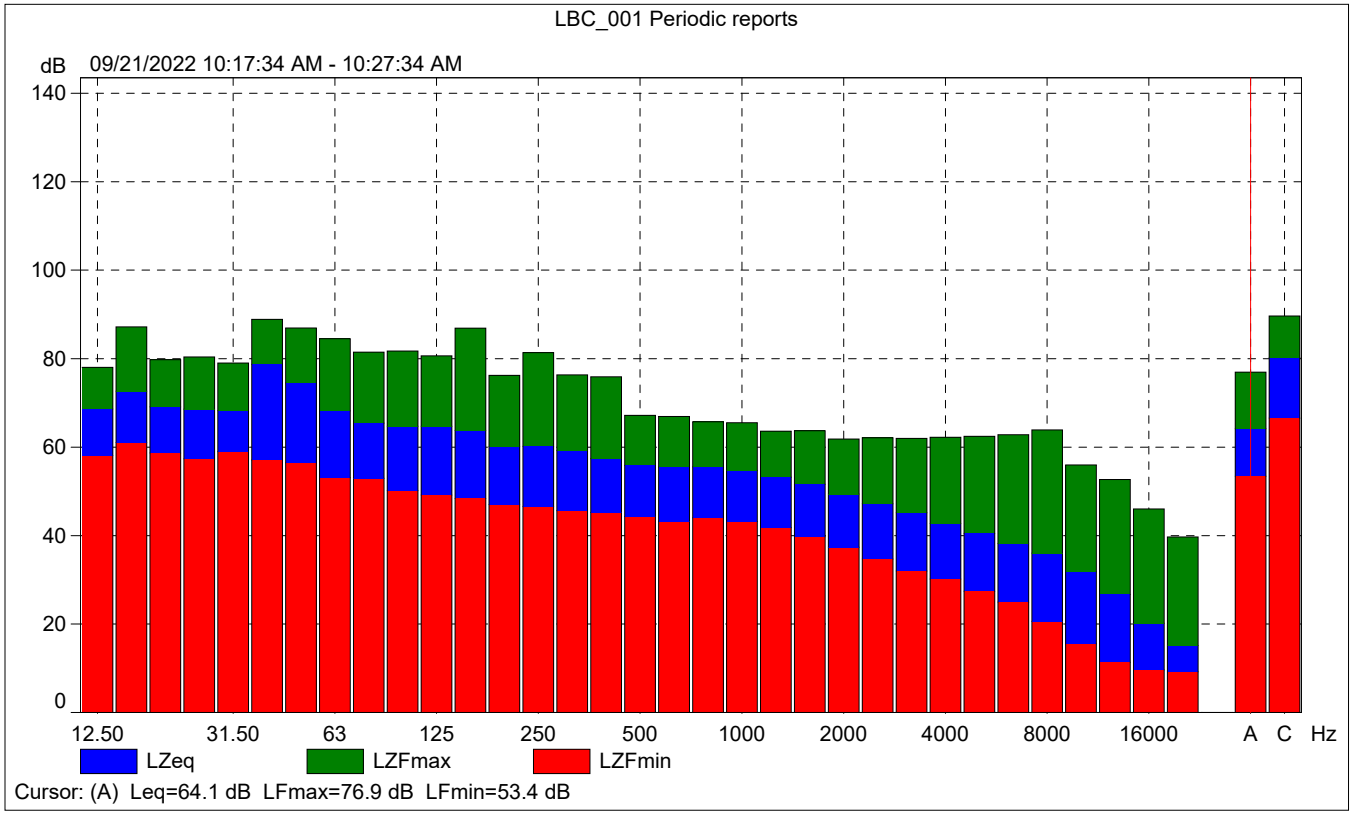
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			63.4	63.9	60.5
Time	10:22:33 AM	0:00:01			
Date	09/21/2022				

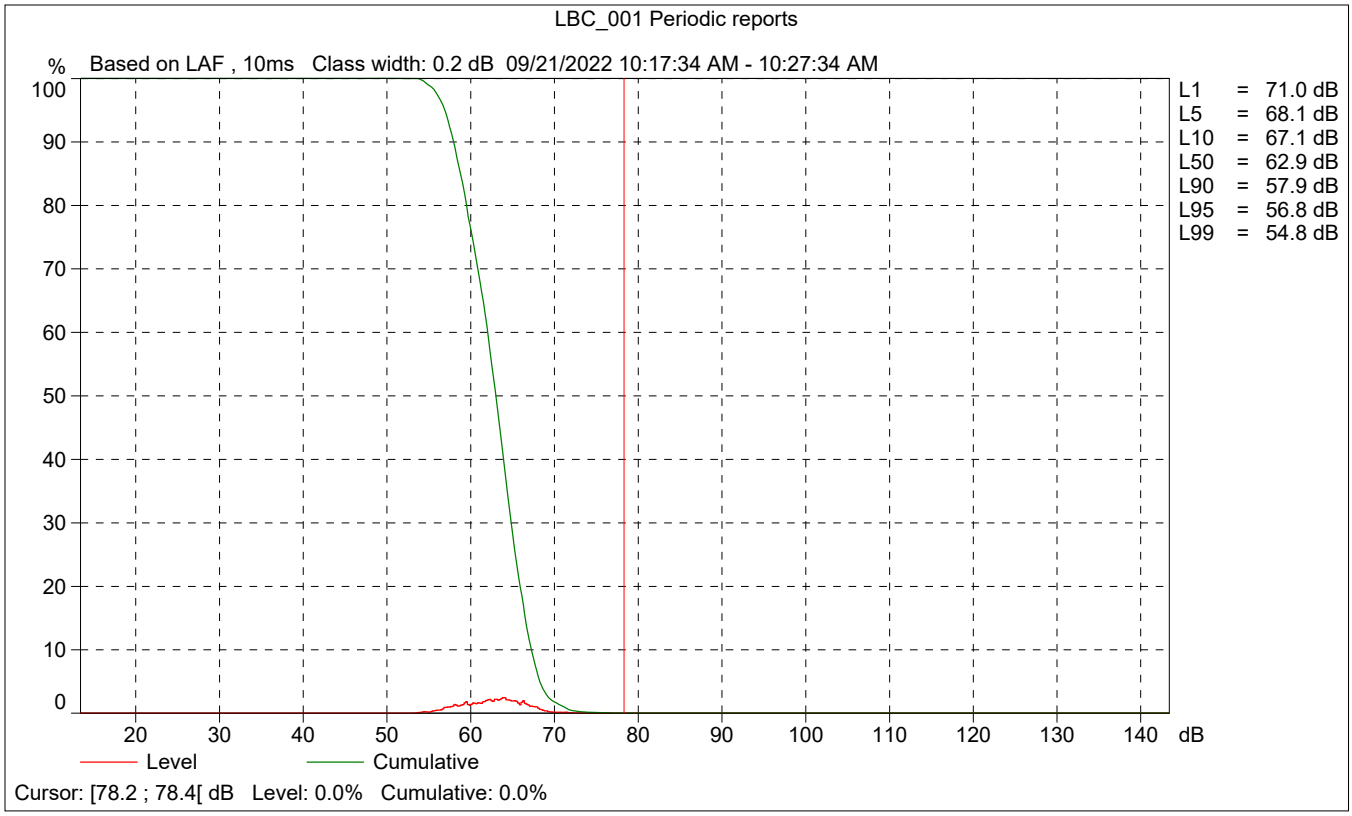

LBC_001
dB
09/21/2022 10:22:33 AM - 10:22:34 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=62.0 dB


LBC_001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:20:00 AM
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 09/21/2022 10:17:34 AM - 11:17:34 AM LAIeq=65.4 dB LAFmax=76.9 dB LCpeak=98.3 dB LAFmin=53.4 dB

LBC_001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	65.4	76.9	53.4
Time	10:17:34 AM	0:10:00				
Date	09/21/2022					




LBC_001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 09/21/2022 10:17:34 AM - 10:27:34 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 71.0 dB
L5 = 68.1 dB
L10 = 67.1 dB
L50 = 62.9 dB
L90 = 57.9 dB
L95 = 56.8 dB
L99 = 54.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-2	
Recorded By: Tina Yuan, Darshan Shivaiah	
Job Number: 191321	
Date: 9/21/22	
Time: 10:35 a.m.	
Location: In front of 1829 Caspian Avenue, along the sidewalk.	
Source of Peak Noise: Traffic long Caspian Avenue and Pacific Coast Highway.	

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
60.7	79.0	50.8	103.8

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 = -0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	5	74	29.96

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		09/21/2022 10:35:07
End Time:		09/21/2022 10:45:07
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.19

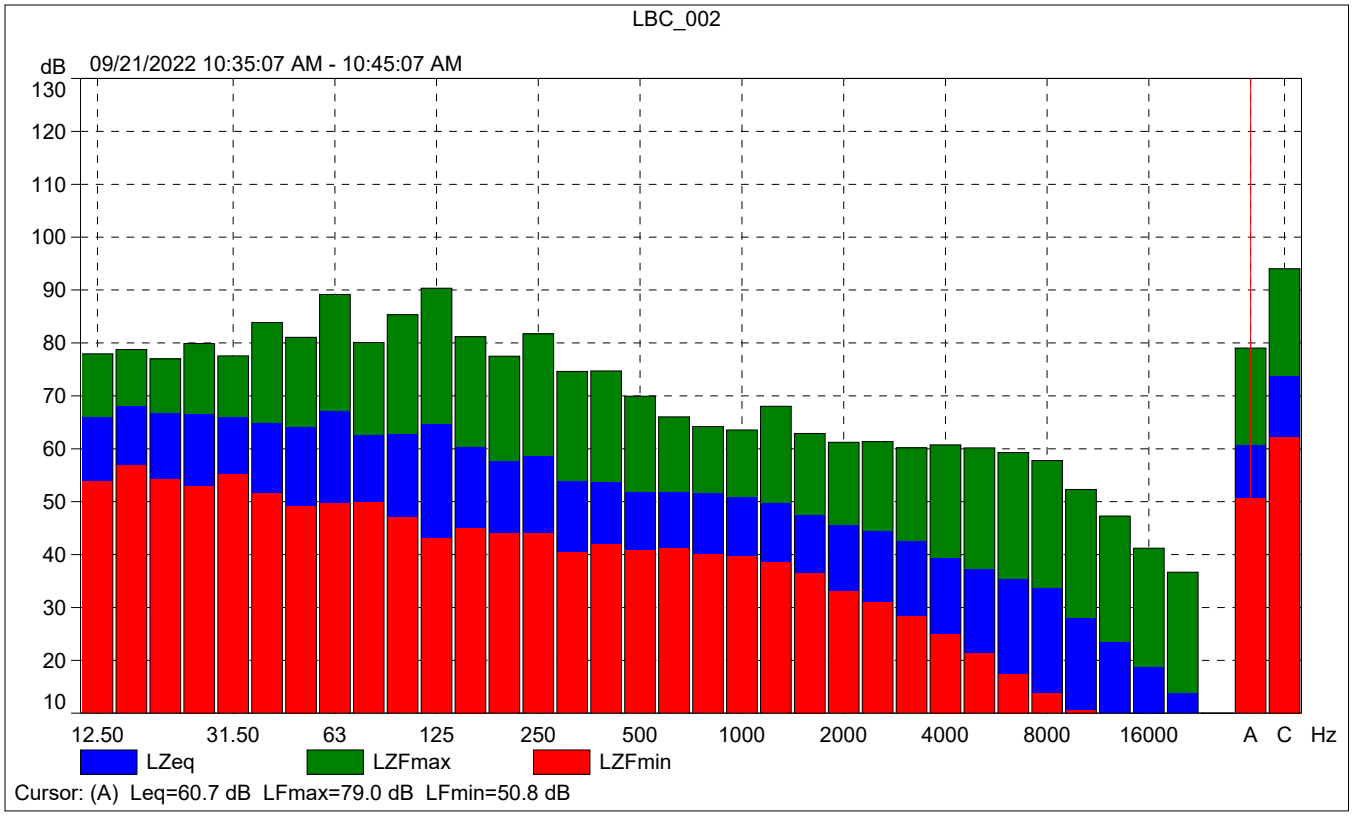
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

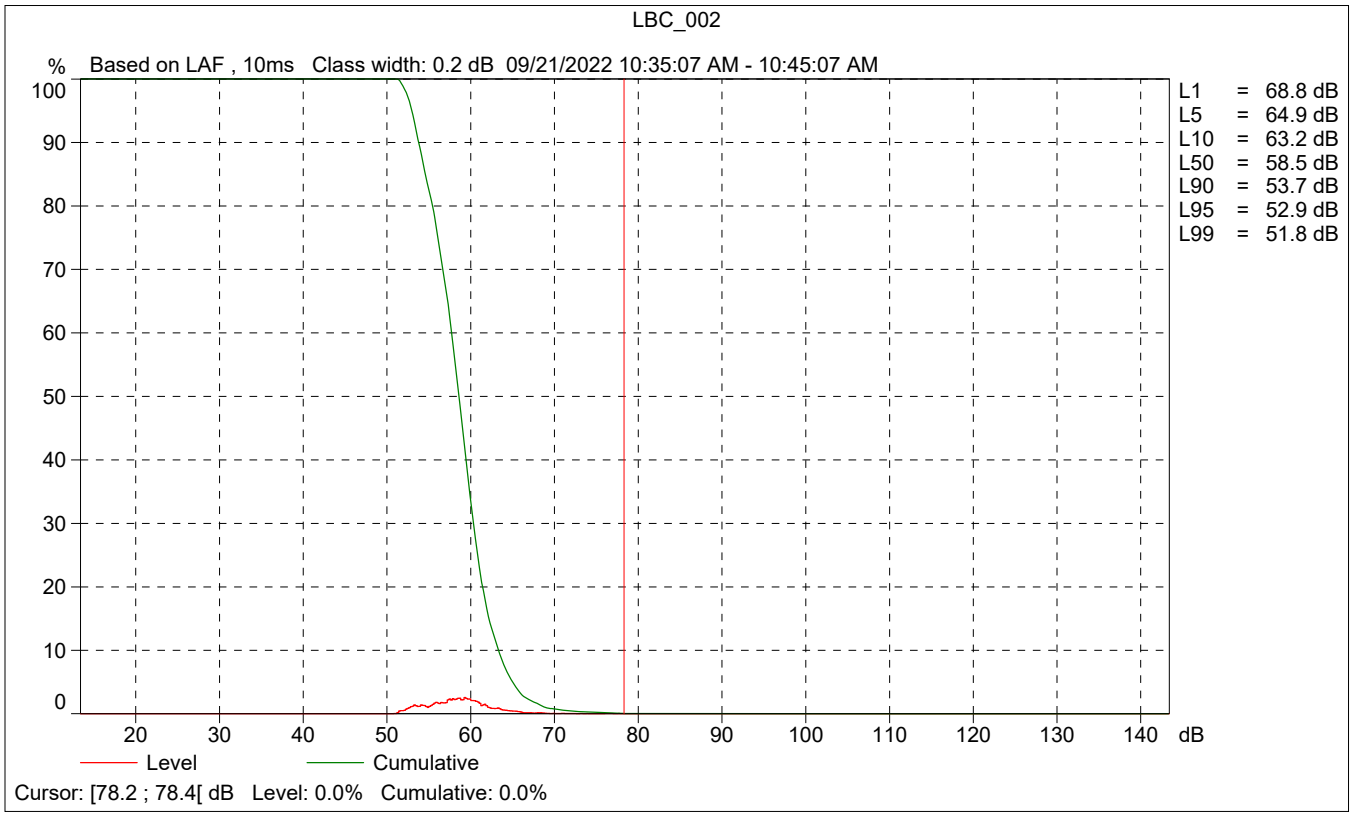
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

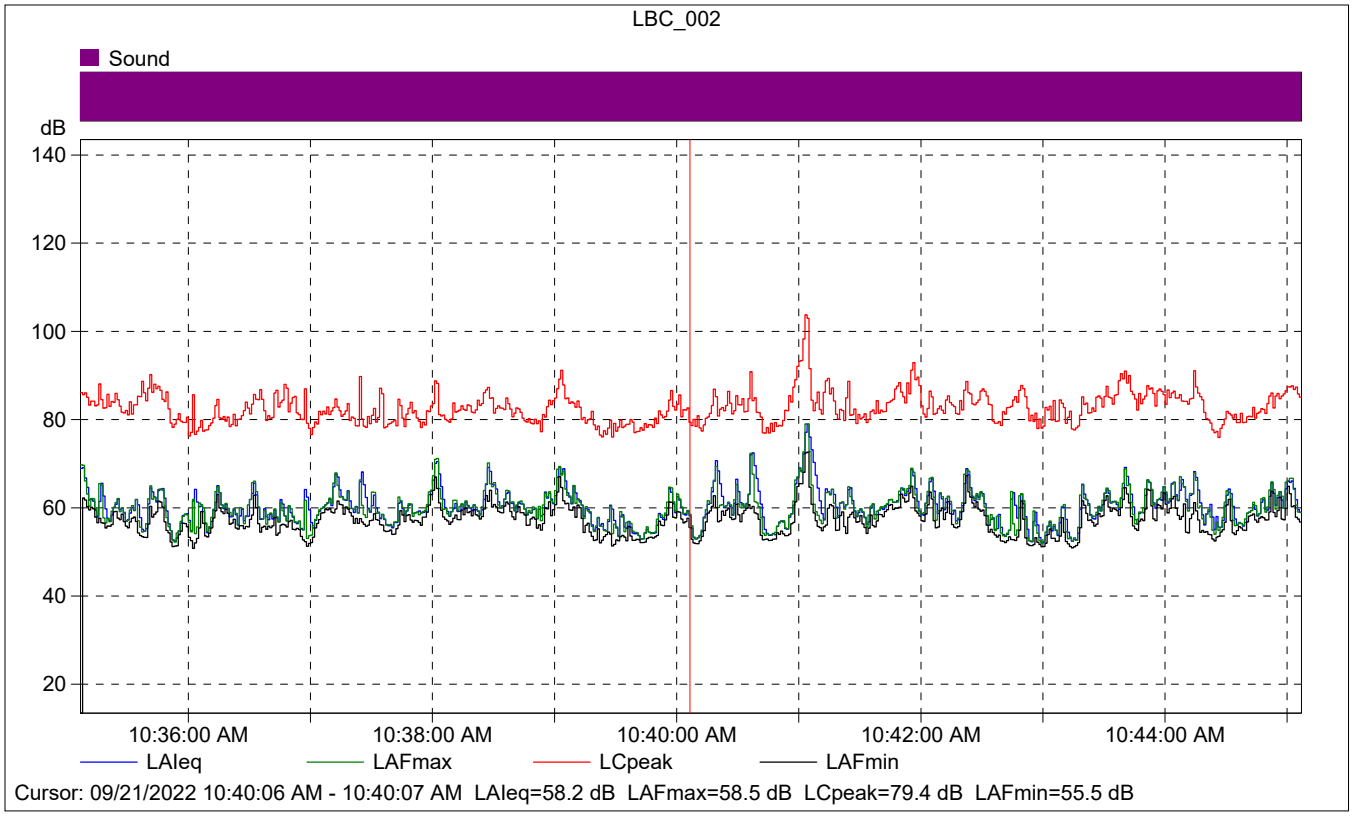
Calibration Time:		09/21/2022 08:58:47
Calibration Type:		External reference
Sensitivity:		43.2673208415508 mV/Pa

LBC_002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	60.7	79.0	50.8
Time	10:35:07 AM	10:45:07 AM	0:10:00				
Date	09/21/2022	09/21/2022					

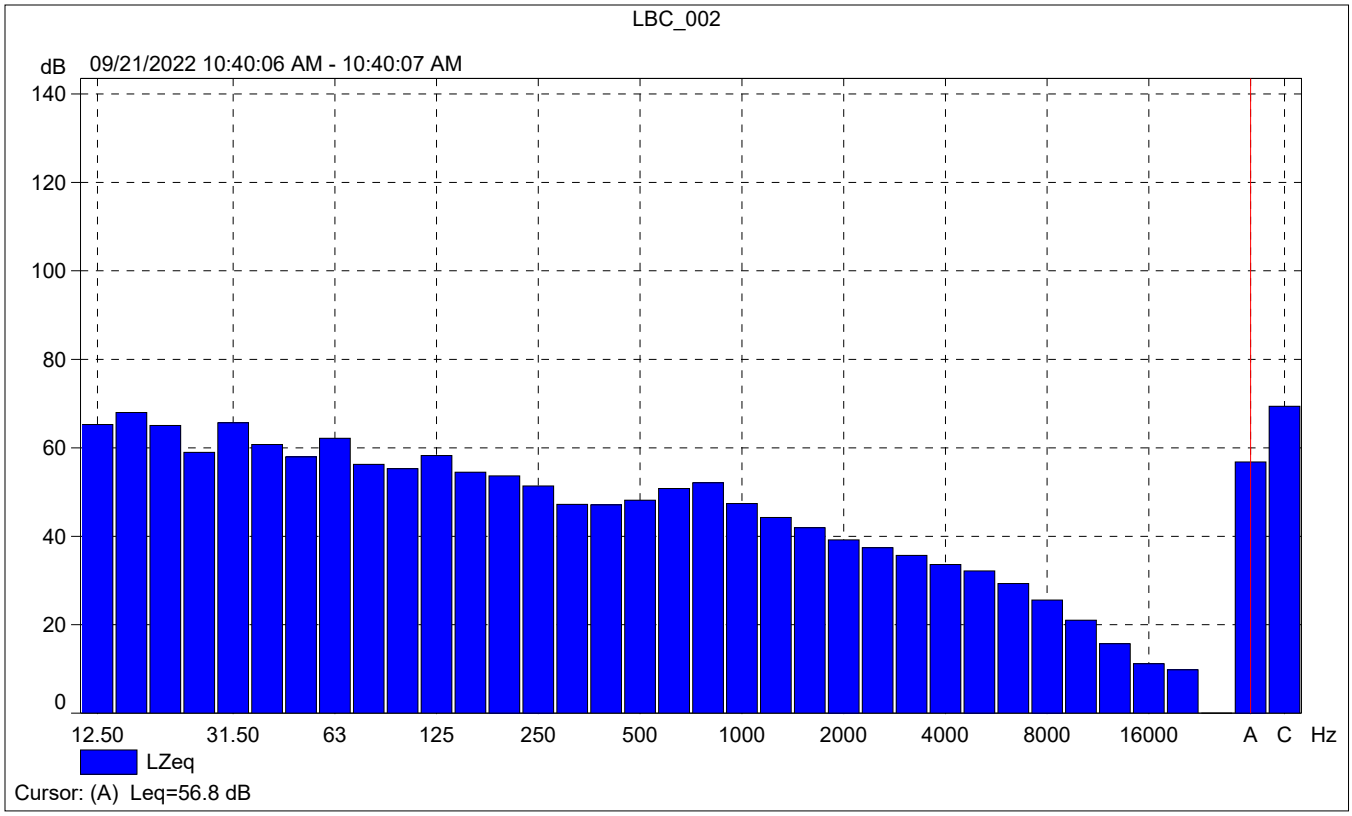

LBC_002
dB
09/21/2022 10:35:07 AM - 10:45:07 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=60.7 dB LFmax=79.0 dB LFmin=50.8 dB

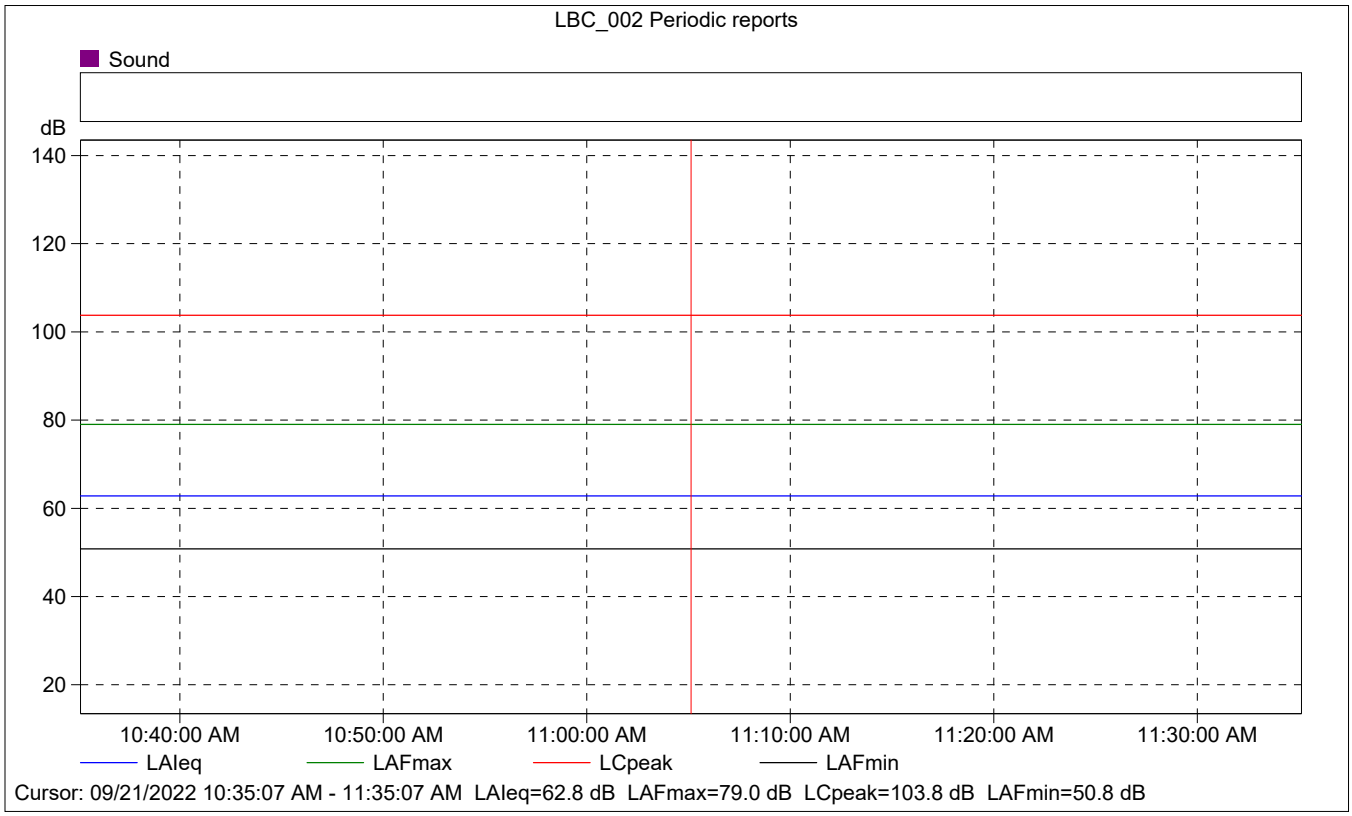

LBC_002
%
Based on LAF , 10ms Class width: 0.2 dB 09/21/2022 10:35:07 AM - 10:45:07 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 68.8 dB
L5 = 64.9 dB
L10 = 63.2 dB
L50 = 58.5 dB
L90 = 53.7 dB
L95 = 52.9 dB
L99 = 51.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



LBC_002

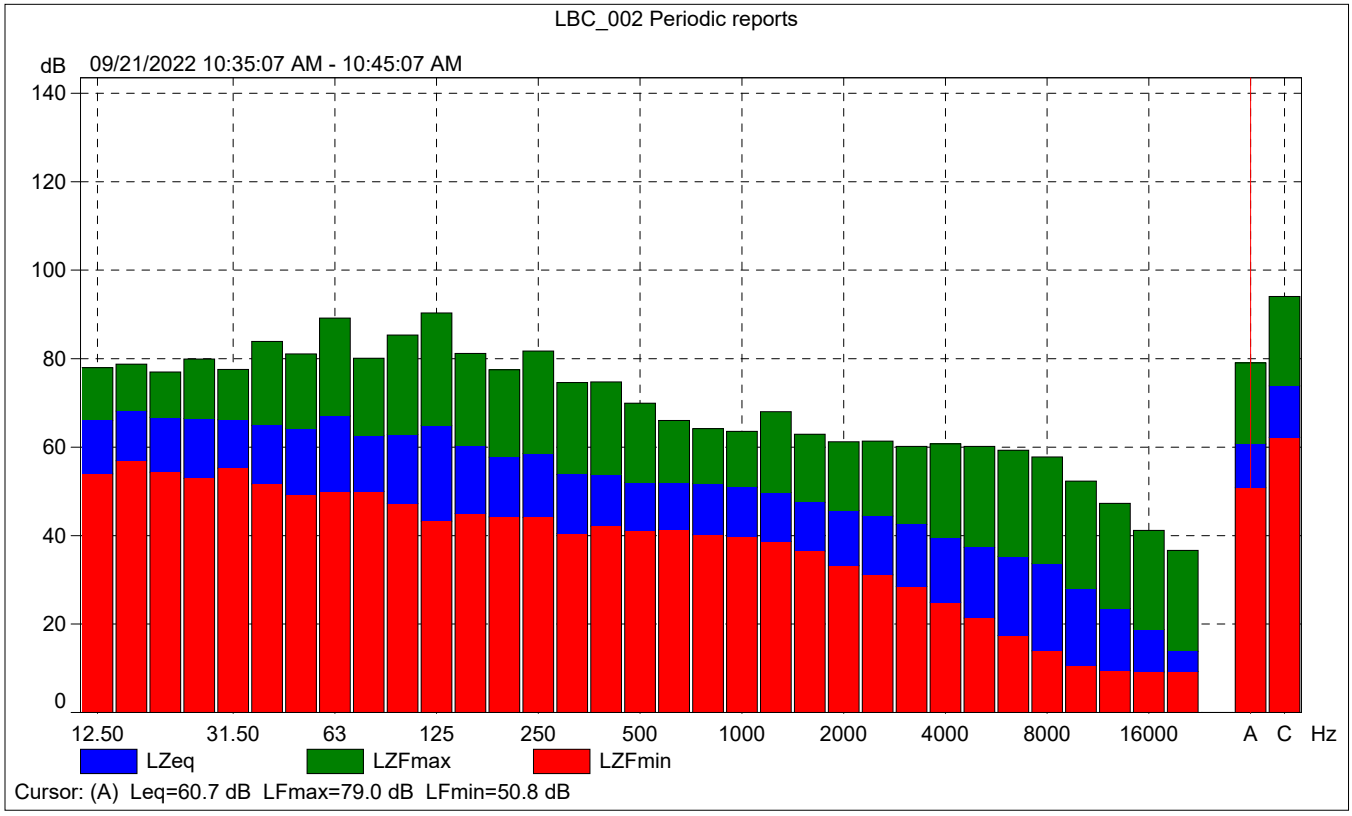
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			58.2	58.5	55.5
Time	10:40:06 AM	0:00:01			
Date	09/21/2022				

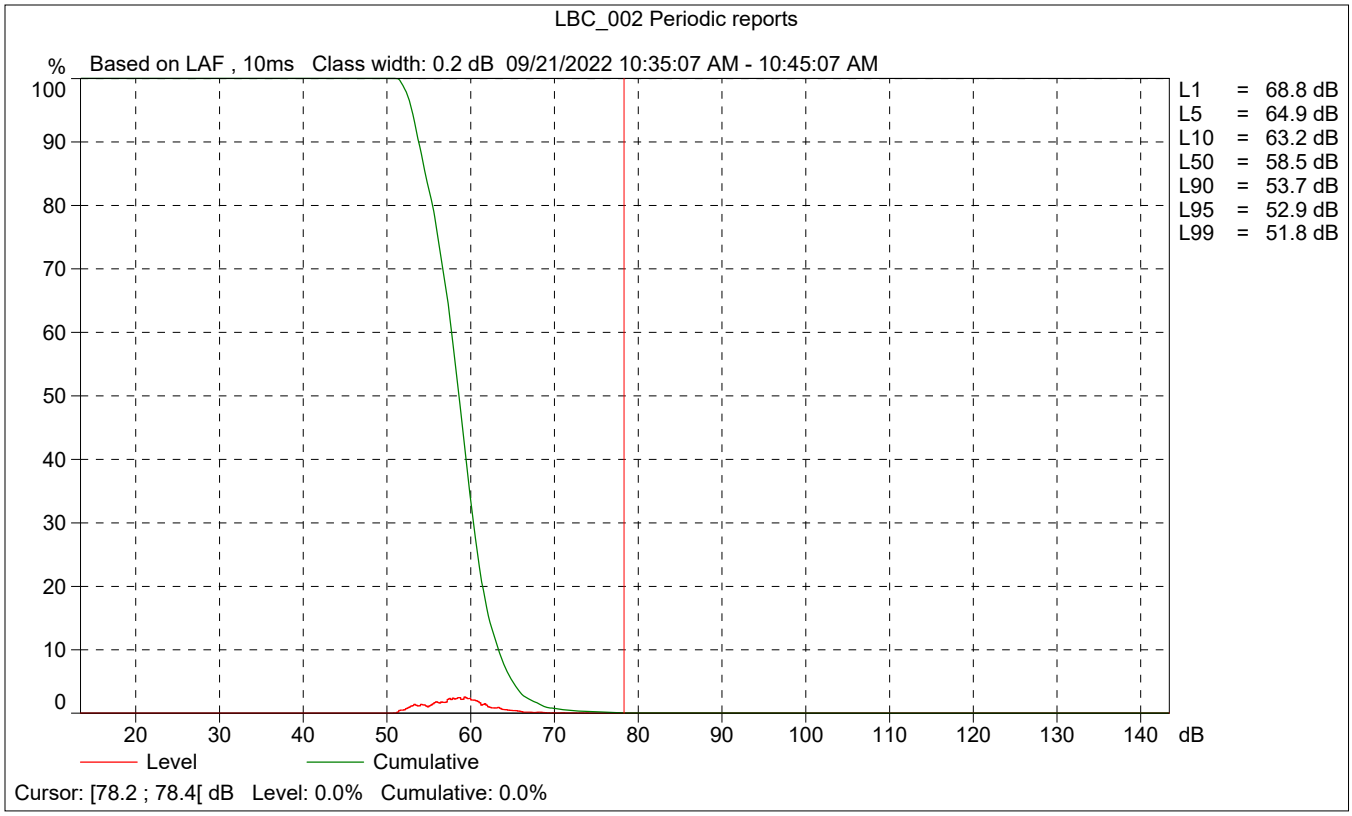

LBC_002
dB
09/21/2022 10:40:06 AM - 10:40:07 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=56.8 dB


LBC_002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
11:20:00 AM
11:30:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 09/21/2022 10:35:07 AM - 11:35:07 AM LAIeq=62.8 dB LAFmax=79.0 dB LCpeak=103.8 dB LAFmin=50.8 dB

LBC_002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	62.8	79.0	50.8
Time	10:35:07 AM	0:10:00				
Date	09/21/2022					




LBC_002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 09/21/2022 10:35:07 AM - 10:45:07 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 68.8 dB
L5 = 64.9 dB
L10 = 63.2 dB
L50 = 58.5 dB
L90 = 53.7 dB
L95 = 52.9 dB
L99 = 51.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-3	
Recorded By: Tina Yuan, Darshan Shivaiah	
Job Number: 191321	
Date: 9/21/22	
Time: 10:49 a.m.	
Location: In front of Hiland Motel at 1441 Pacific Coast Highway, along the sidewalk.	
Source of Peak Noise: Traffic along Pacific Coast Highway.	

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
77.8	96.0	60.0	111.8

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 = -0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	5	74	29.96

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		09/21/2022 10:48:42
End Time:		09/21/2022 10:58:42
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.19

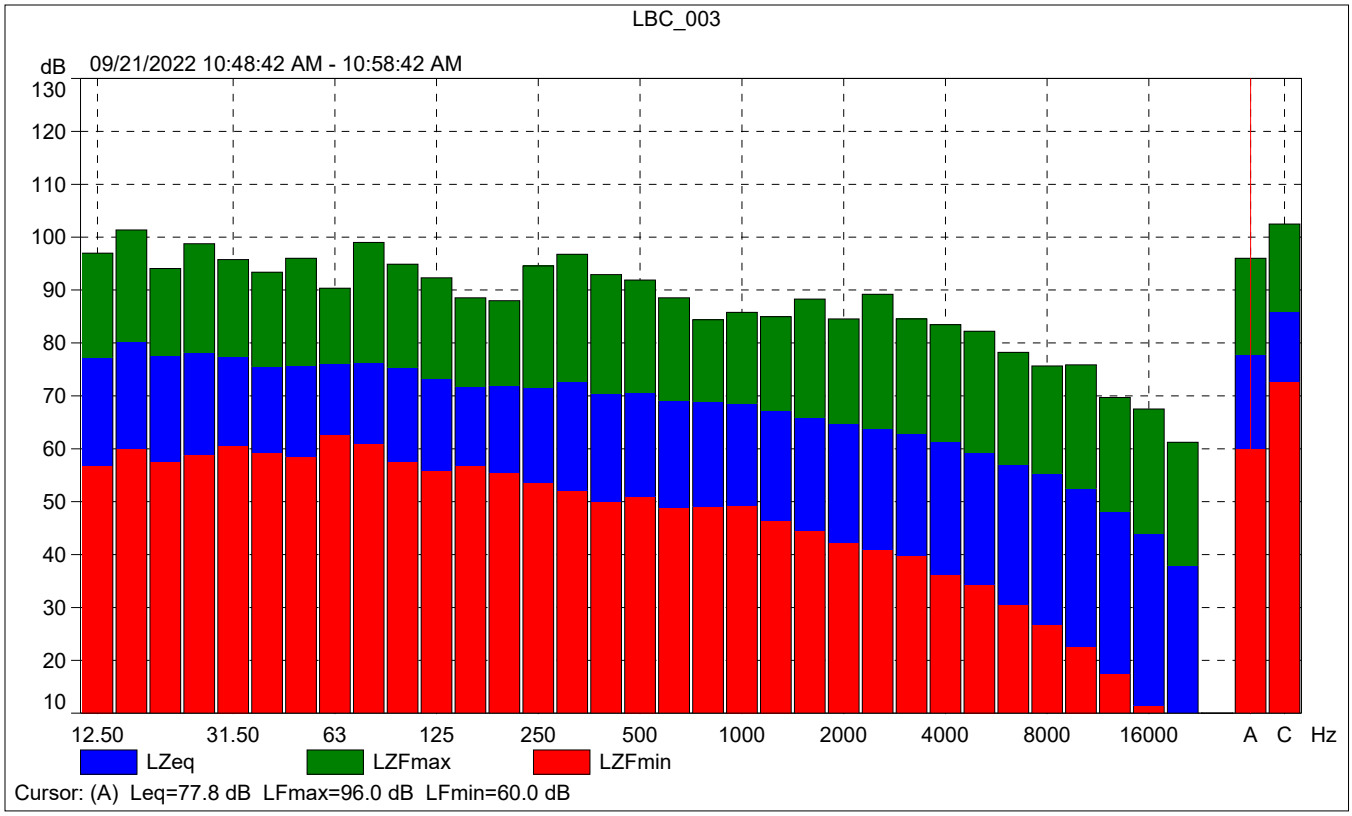
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

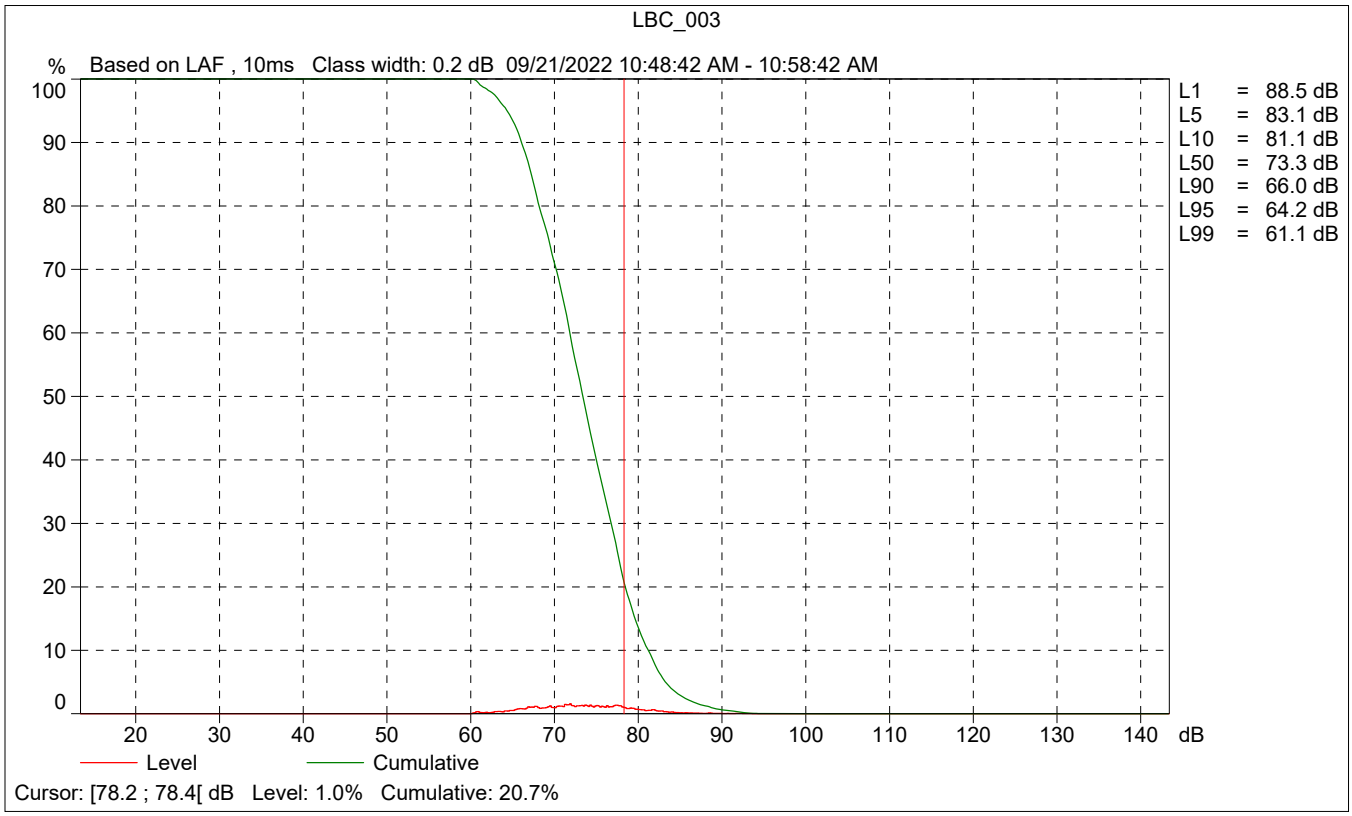
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

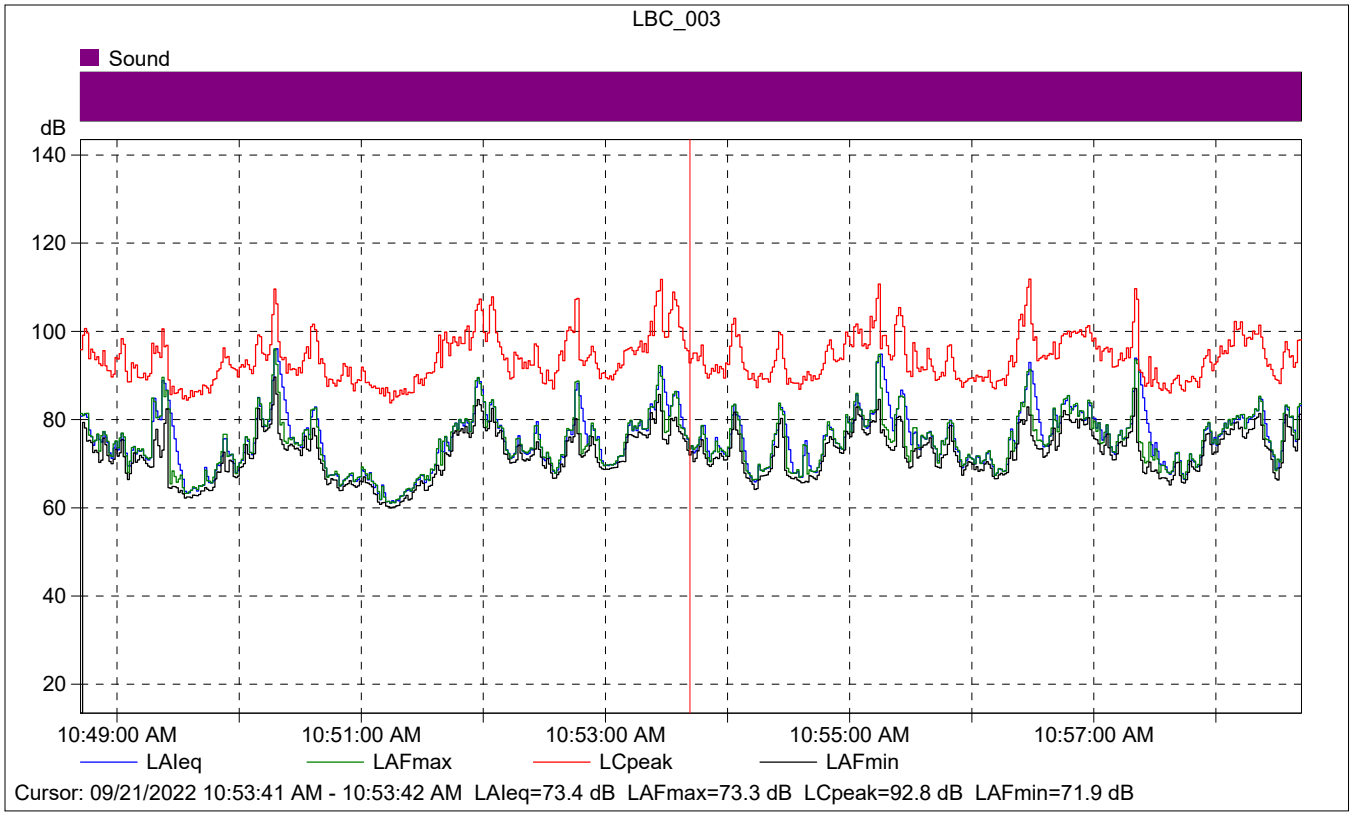
Calibration Time:		09/21/2022 08:58:47
Calibration Type:		External reference
Sensitivity:		43.2673208415508 mV/Pa

LBC_003

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	77.8	96.0	60.0
Time	10:48:42 AM	10:58:42 AM	0:10:00				
Date	09/21/2022	09/21/2022					

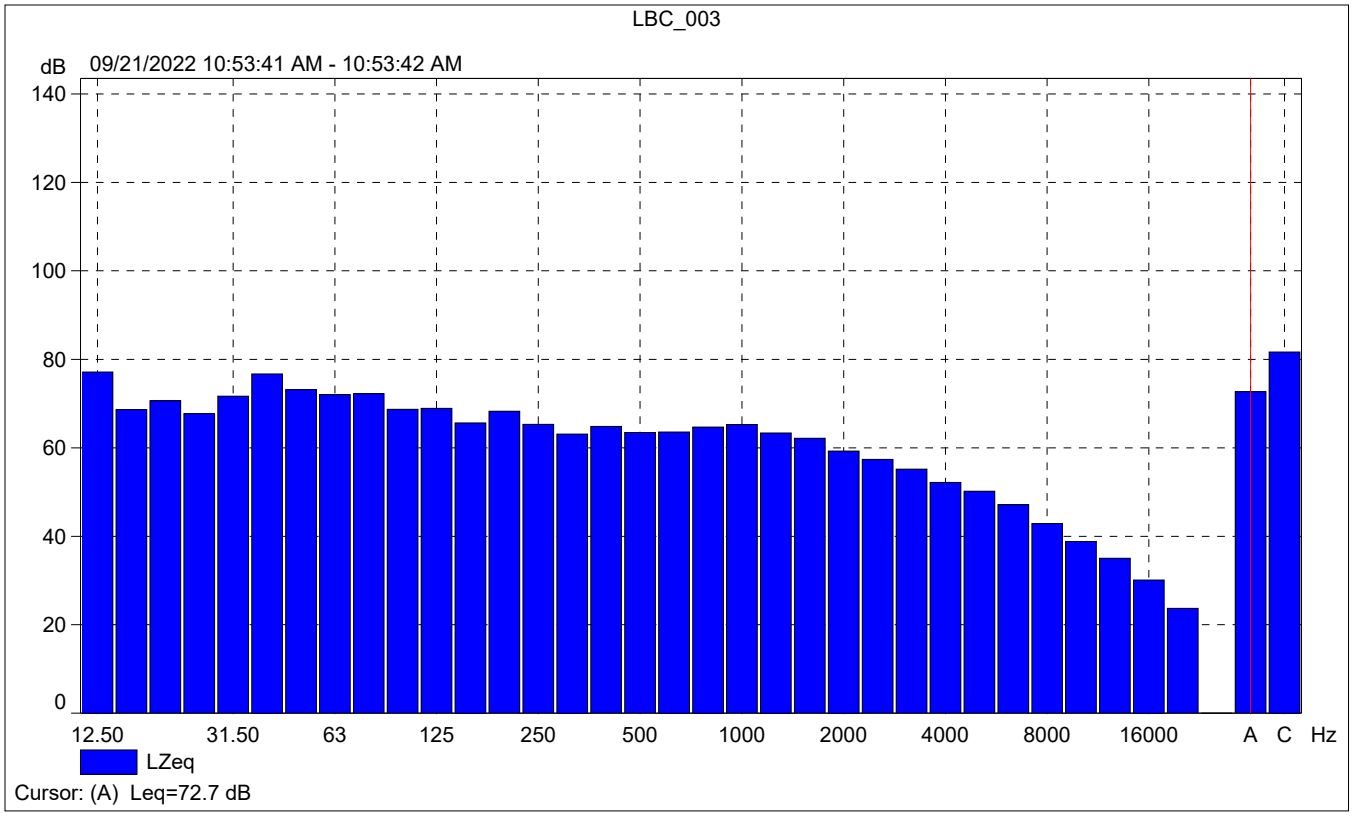

LBC_003
dB
09/21/2022 10:48:42 AM - 10:58:42 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=77.8 dB LFmax=96.0 dB LFmin=60.0 dB

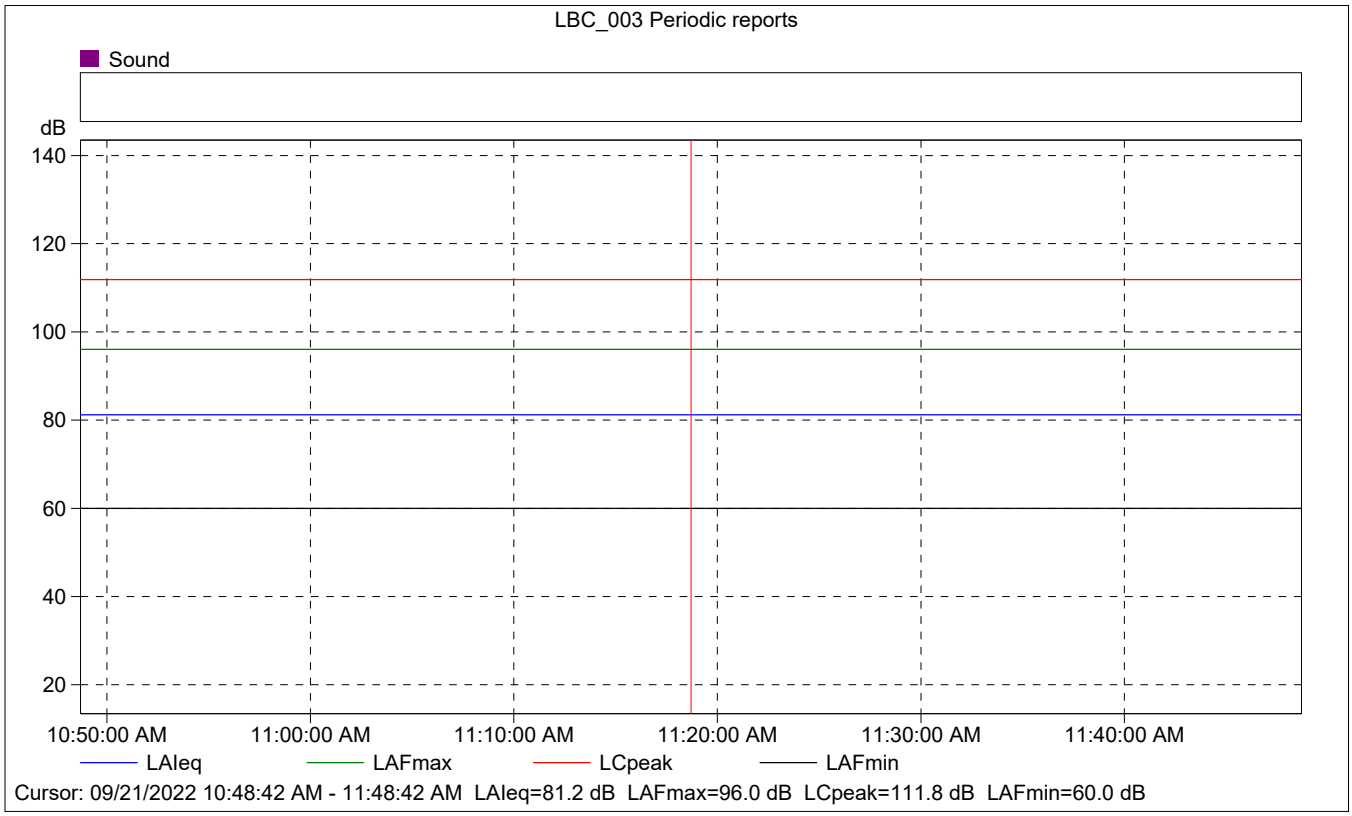

LBC_003
%
Based on LAF , 10ms Class width: 0.2 dB 09/21/2022 10:48:42 AM - 10:58:42 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 88.5 dB
L5 = 83.1 dB
L10 = 81.1 dB
L50 = 73.3 dB
L90 = 66.0 dB
L95 = 64.2 dB
L99 = 61.1 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 1.0% Cumulative: 20.7%



LBC_003

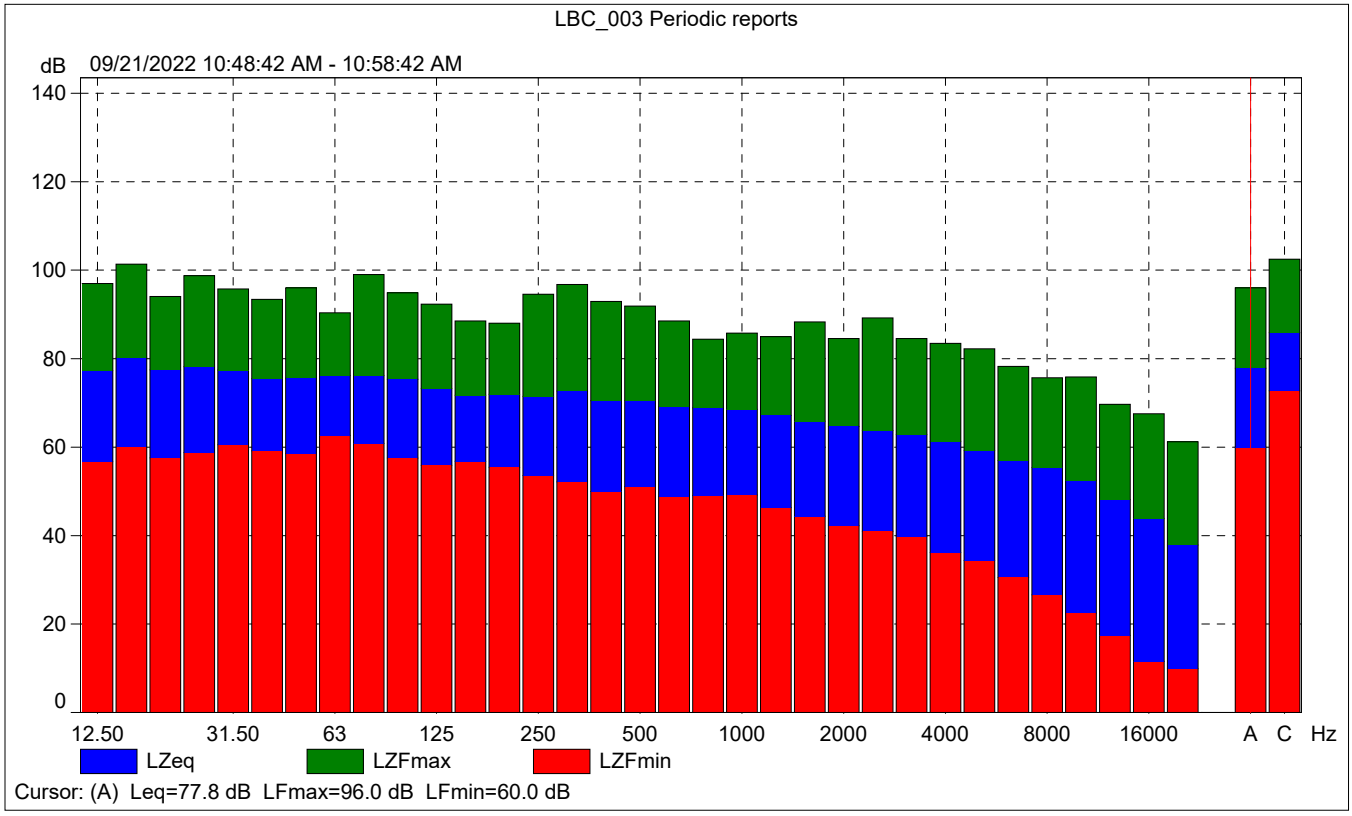
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			73.4	73.3	71.9
Time	10:53:41 AM	0:00:01			
Date	09/21/2022				

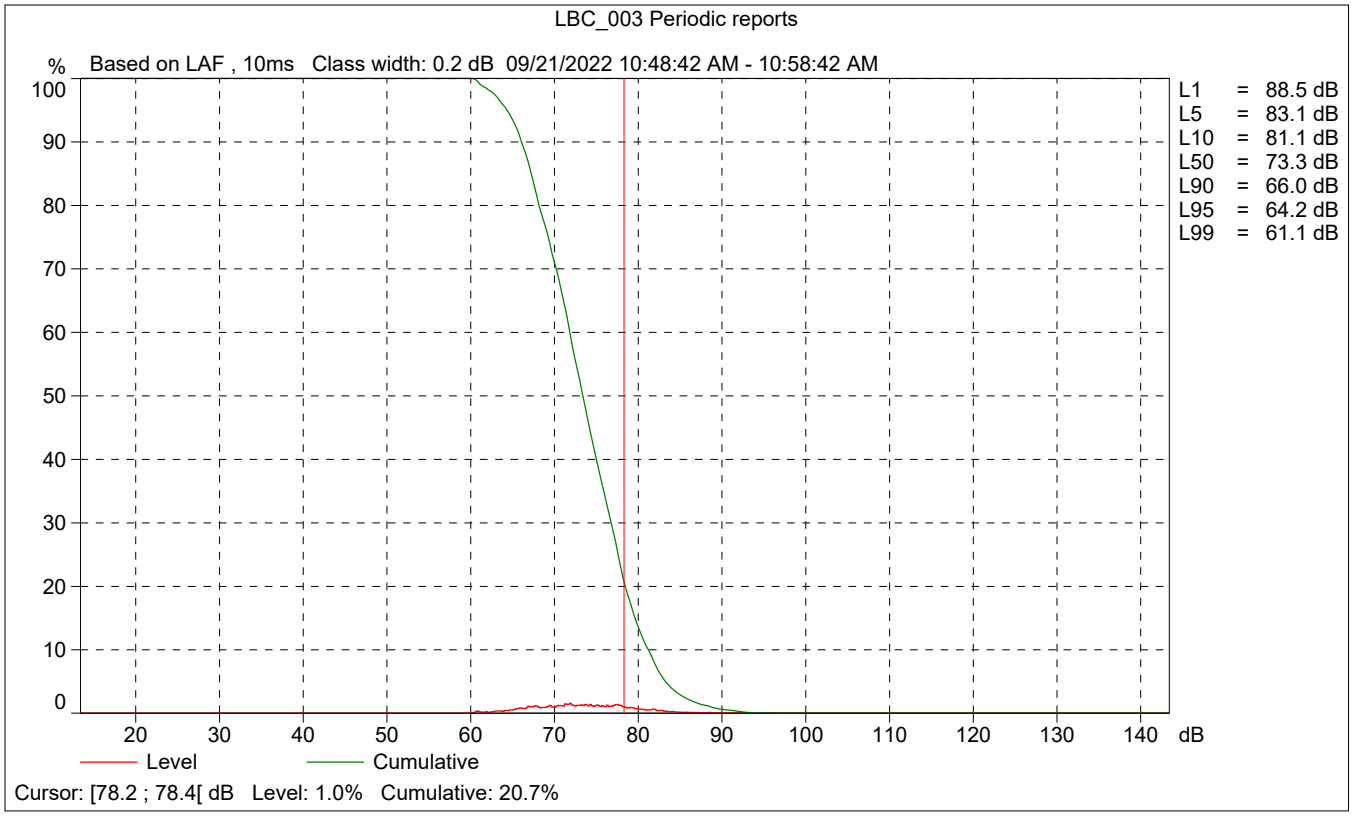

LBC_003
dB
09/21/2022 10:53:41 AM - 10:53:42 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=72.7 dB


LBC_003 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:50:00 AM
11:00:00 AM
11:10:00 AM
11:20:00 AM
11:30:00 AM
11:40:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 09/21/2022 10:48:42 AM - 11:48:42 AM LAIeq=81.2 dB LAFmax=96.0 dB LCpeak=111.8 dB LAFmin=60.0 dB

LBC_003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	81.2	96.0	60.0
Time	10:48:42 AM	0:10:00				
Date	09/21/2022					




LBC_003 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 09/21/2022 10:48:42 AM - 10:58:42 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 88.5 dB
L5 = 83.1 dB
L10 = 81.1 dB
L50 = 73.3 dB
L90 = 66.0 dB
L95 = 64.2 dB
L99 = 61.1 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 1.0% Cumulative: 20.7%