APPENDIX F
Noise Analysis

Site Number: 1			
Recorded By: Danielle Regimbal/Pierre Glaize			
Job Number: 170628			
Date: 1/10/19			
Time: 11:11 A.M.			
Location: Along Cedarbluff Way, approximately 127 feet north of Dominguez Hills Driveway entrance.			
Source of Peak Noise: Cars driving by and sirens.			
Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
55.3	44.3	70.3	93.0

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**3/29/2018**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**3/26/2018**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**3/29/2018**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**3/28/2018**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Partially Cloudy
	Note: dBA Offset = 0.08		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	SW 2 mph	61	30.14 inHg

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		01/10/2019 11:11:52
End Time:		01/10/2019 11:21:52
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.05

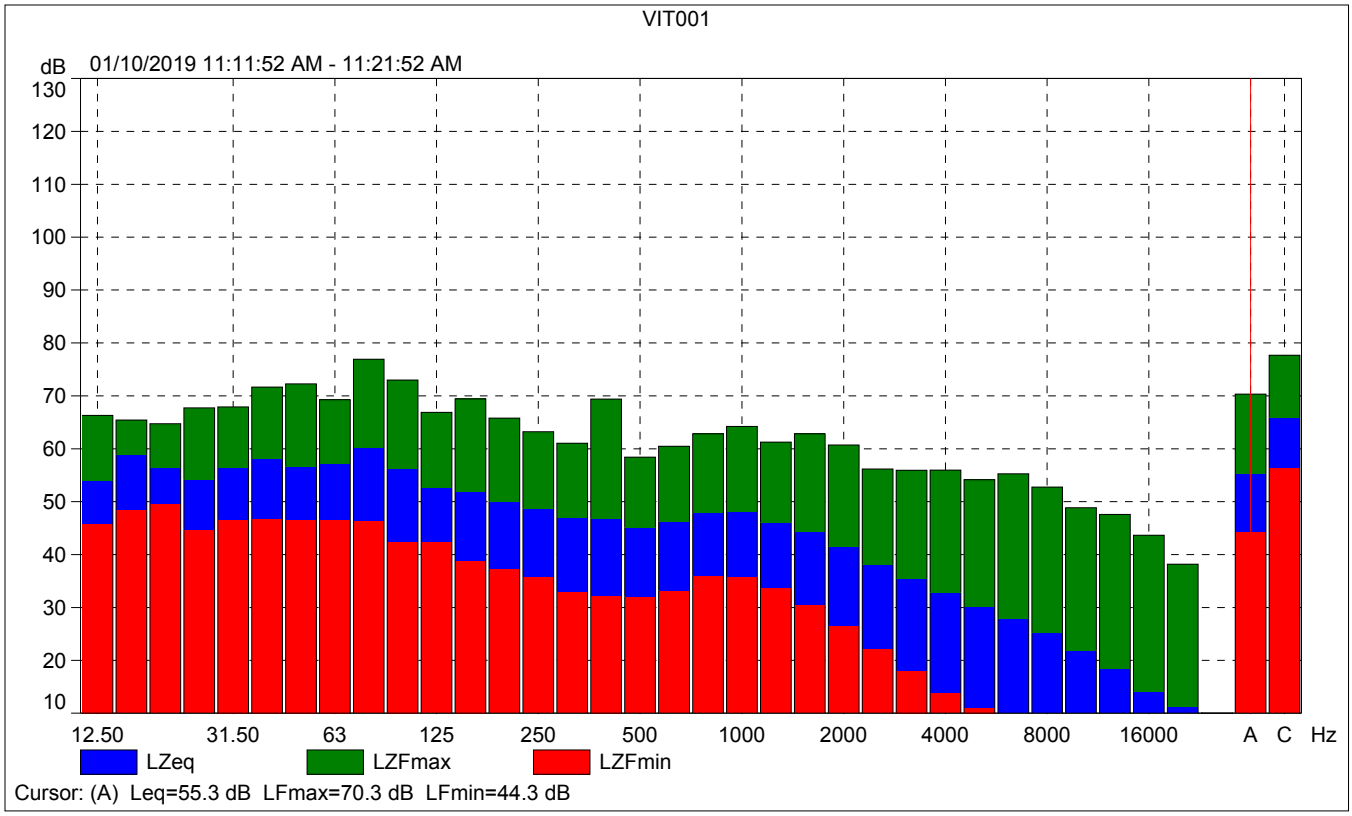
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

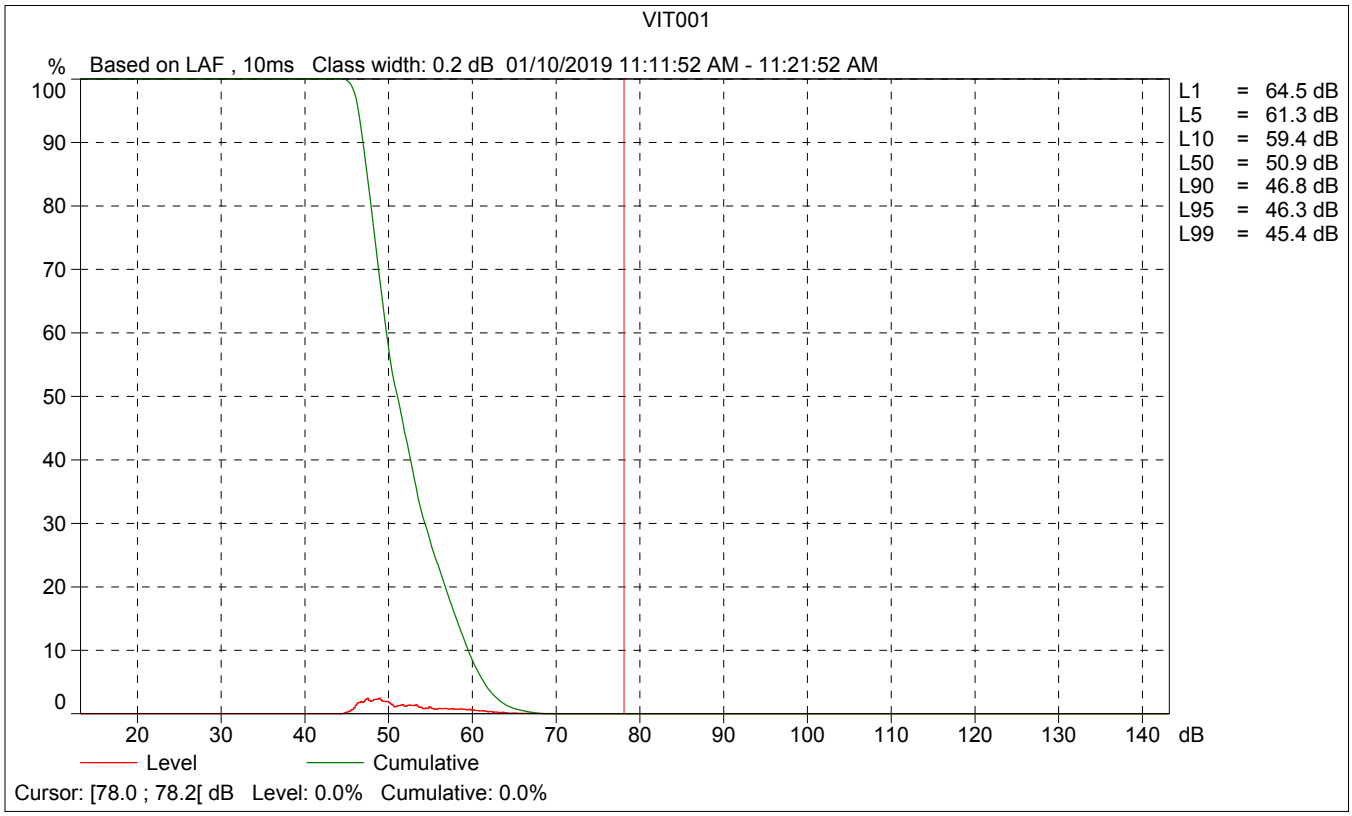
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

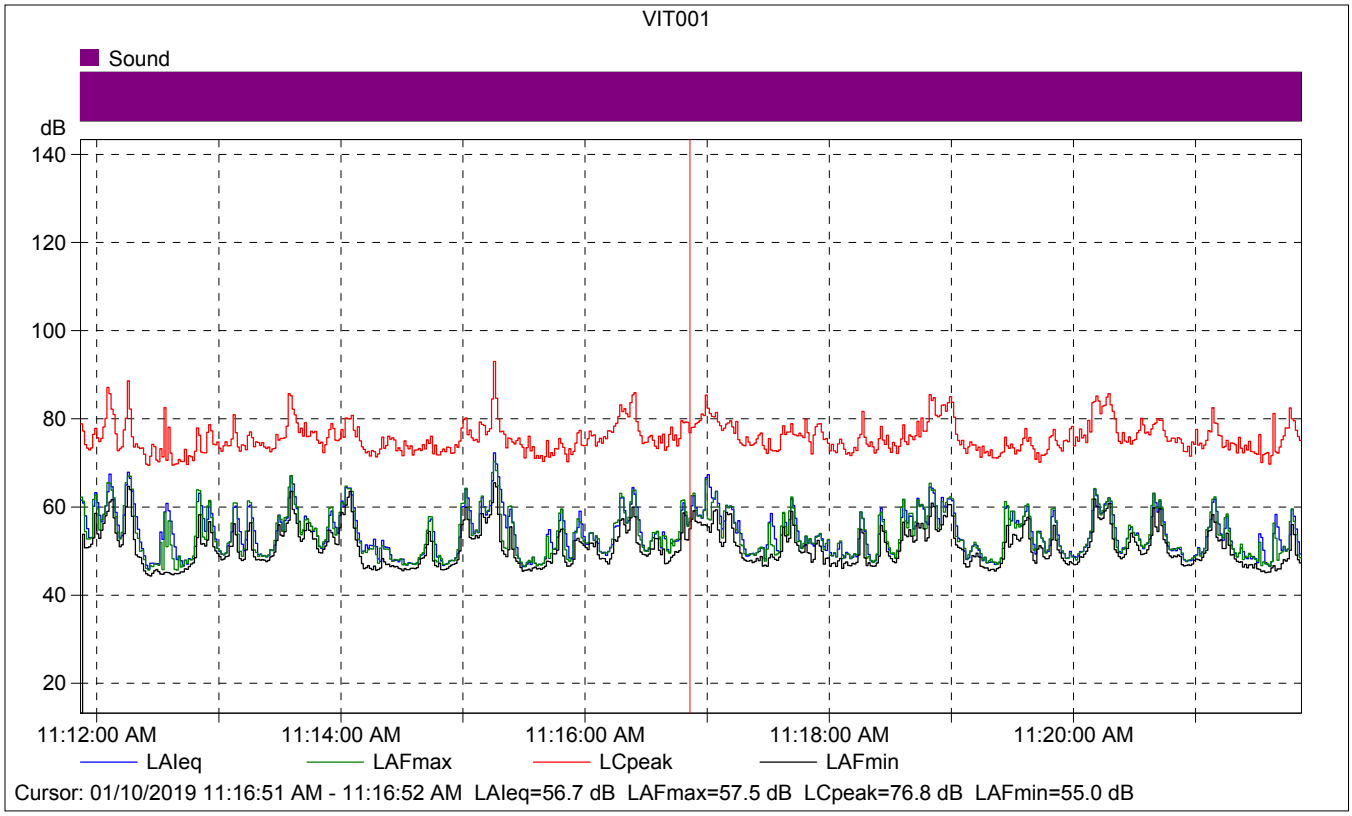
Calibration Time:		01/10/2019 08:58:54
Calibration Type:		External reference
Sensitivity:		44.001754373312 mV/Pa

VIT001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	55.3	70.3	44.3
Time	11:11:52 AM	11:21:52 AM	0:10:00				
Date	01/10/2019	01/10/2019					

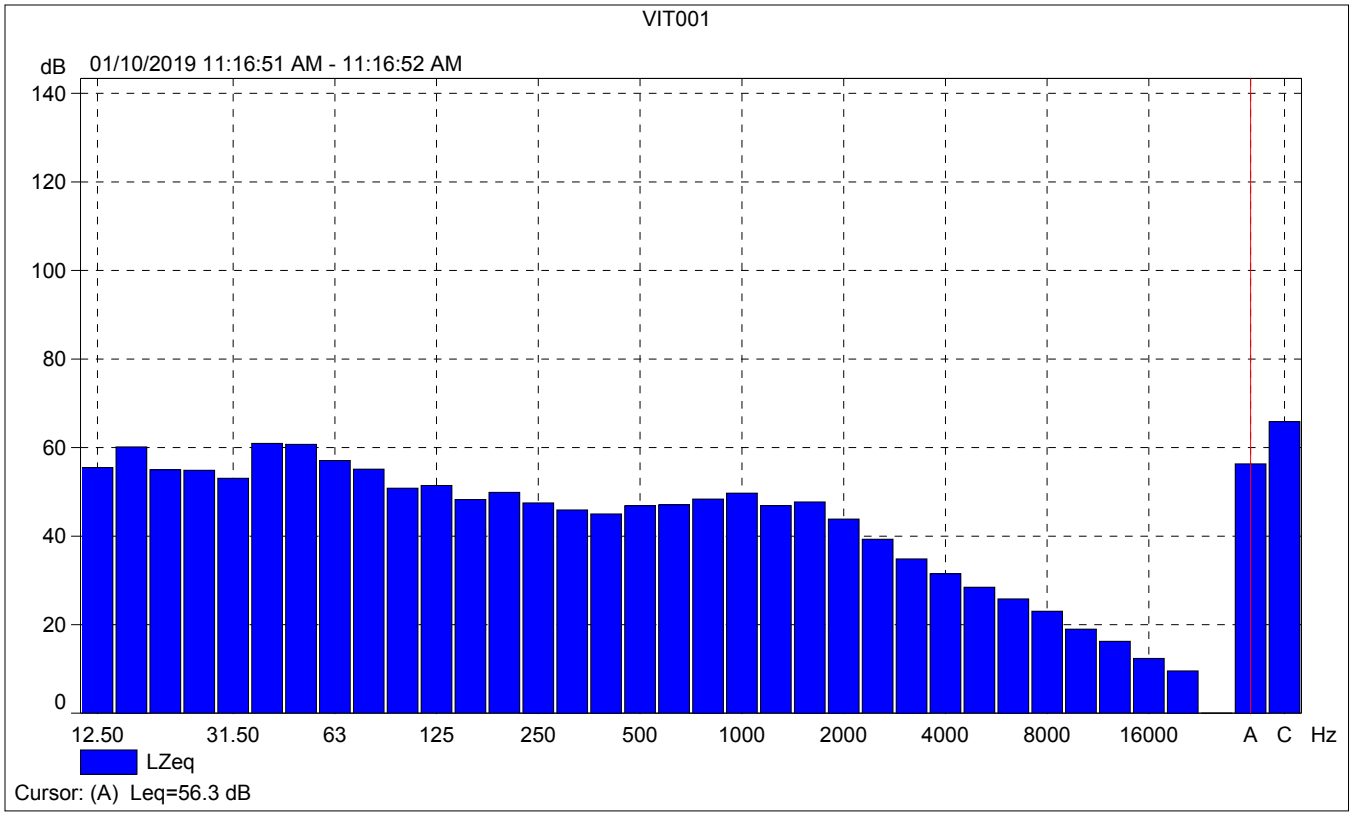

VIT001
dB
01/10/2019 11:11:52 AM - 11:21:52 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=55.3 dB LFmax=70.3 dB LFmin=44.3 dB

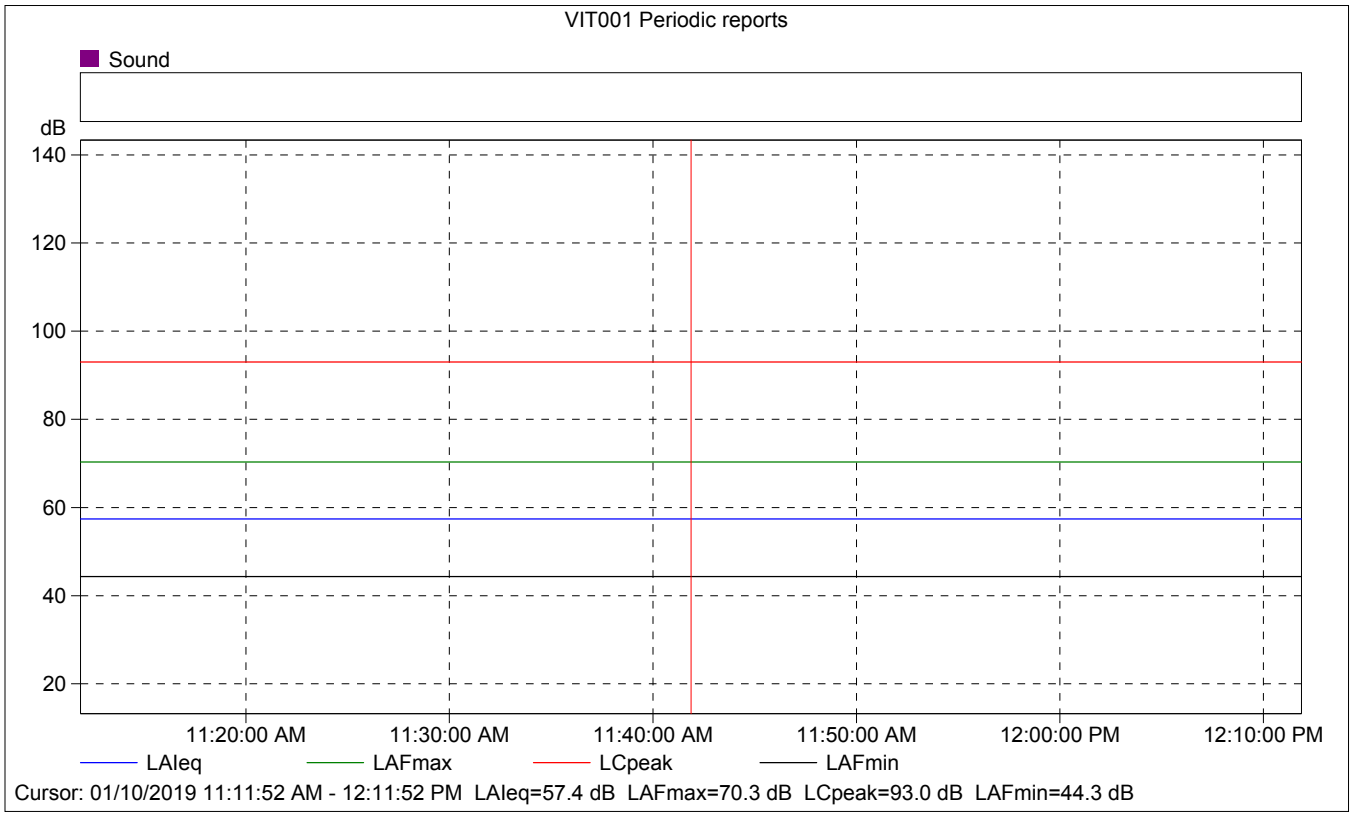

VIT001
%
Based on LAF , 10ms Class width: 0.2 dB 01/10/2019 11:11:52 AM - 11:21:52 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 64.5 dB
L5 = 61.3 dB
L10 = 59.4 dB
L50 = 50.9 dB
L90 = 46.8 dB
L95 = 46.3 dB
L99 = 45.4 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%



VIT001

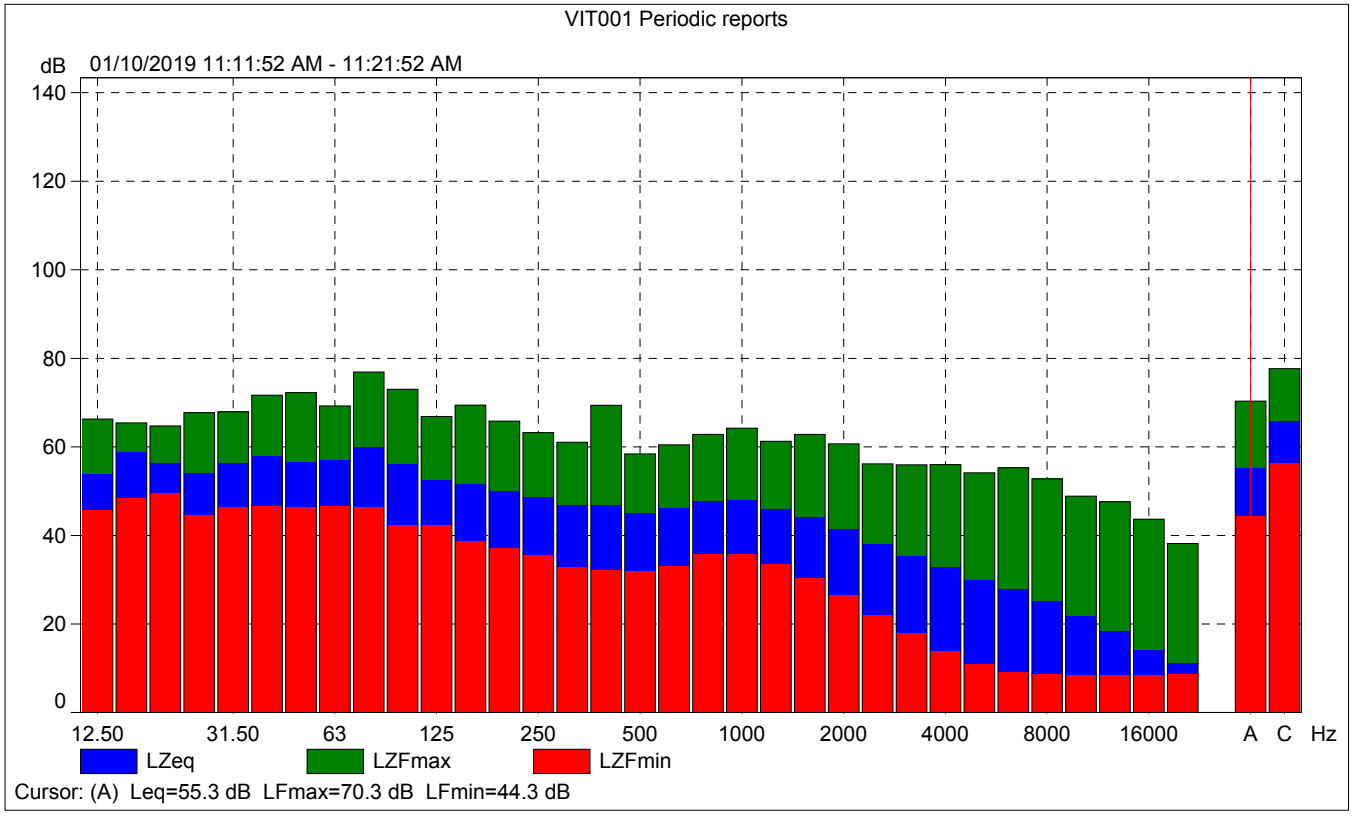
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			56.7	57.5	55.0
Time	11:16:51 AM	0:00:01			
Date	01/10/2019				

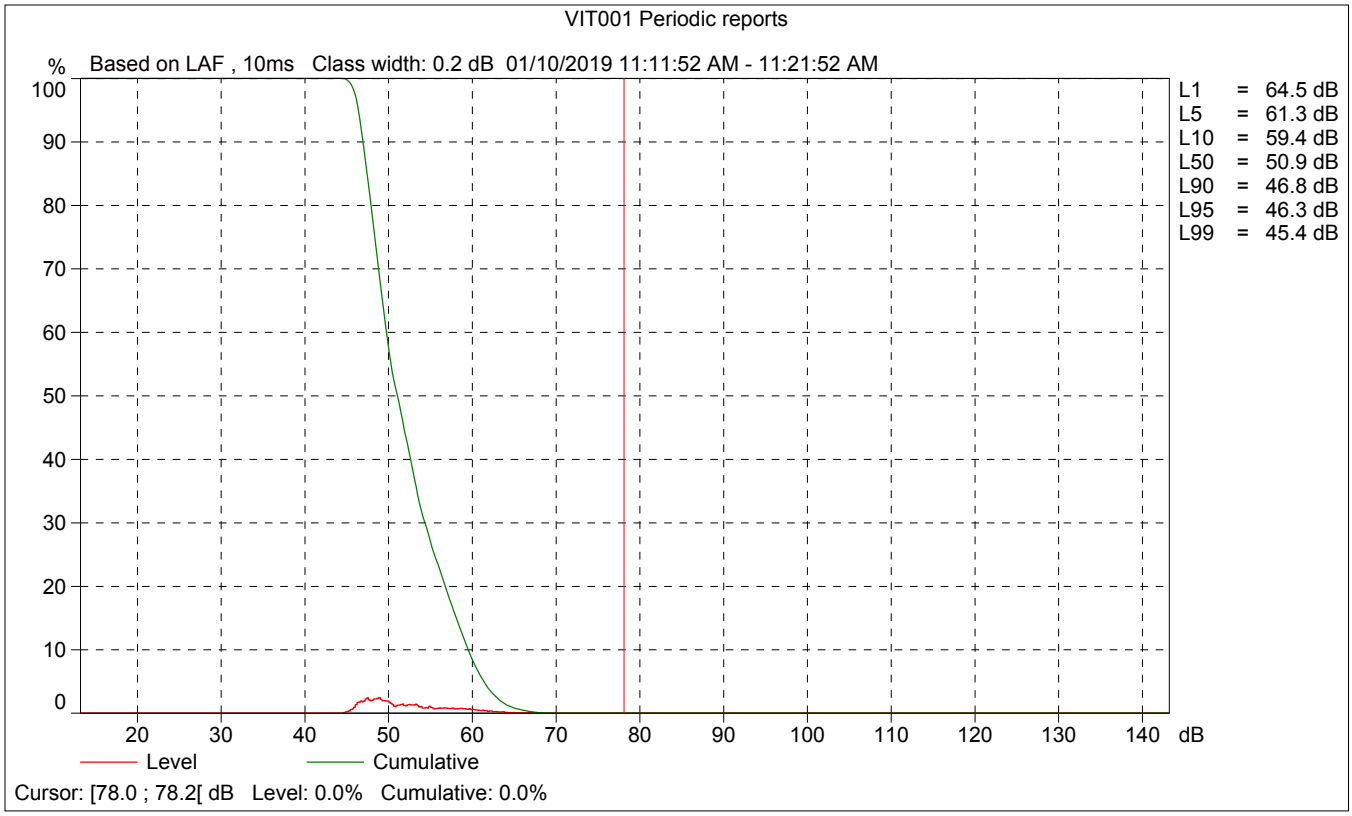

VIT001
dB
01/10/2019 11:16:51 AM - 11:16:52 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=56.3 dB


VIT001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
11:20:00 AM
11:30:00 AM
11:40:00 AM
11:50:00 AM
12:00:00 PM
12:10:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 01/10/2019 11:11:52 AM - 12:11:52 PM LAIeq=57.4 dB LAFmax=70.3 dB LCpeak=93.0 dB LAFmin=44.3 dB

VIT001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	57.4	70.3	44.3
Time	11:11:52 AM	0:10:00				
Date	01/10/2019					




VIT001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 01/10/2019 11:11:52 AM - 11:21:52 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 = 64.5 dB
L5 = 61.3 dB
L10 = 59.4 dB
L50 = 50.9 dB
L90 = 46.8 dB
L95 = 46.3 dB
L99 = 45.4 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%

Site Number: 2			
Recorded By: Danielle Regimbal/Pierre Glaize			
Job Number: 170628			
Date: 1/10/19			
Time: 11:24 A.M.			
Location: Along East Victoria Street, approximately 95 feet west of Dominguez Hills Village driveway entrance.			
Source of Peak Noise: Cars driving by, sirens, and helicopter.			
Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
69.5	47.2	92.6	109.4

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**3/29/2018**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**3/26/2018**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**3/29/2018**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**3/28/2018**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Partially Cloudy
	Note: dBA Offset = 0.08		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	SW 2 mph	61	30.14 inHg

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		01/10/2019 11:24:13
End Time:		01/10/2019 11:34:13
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.05

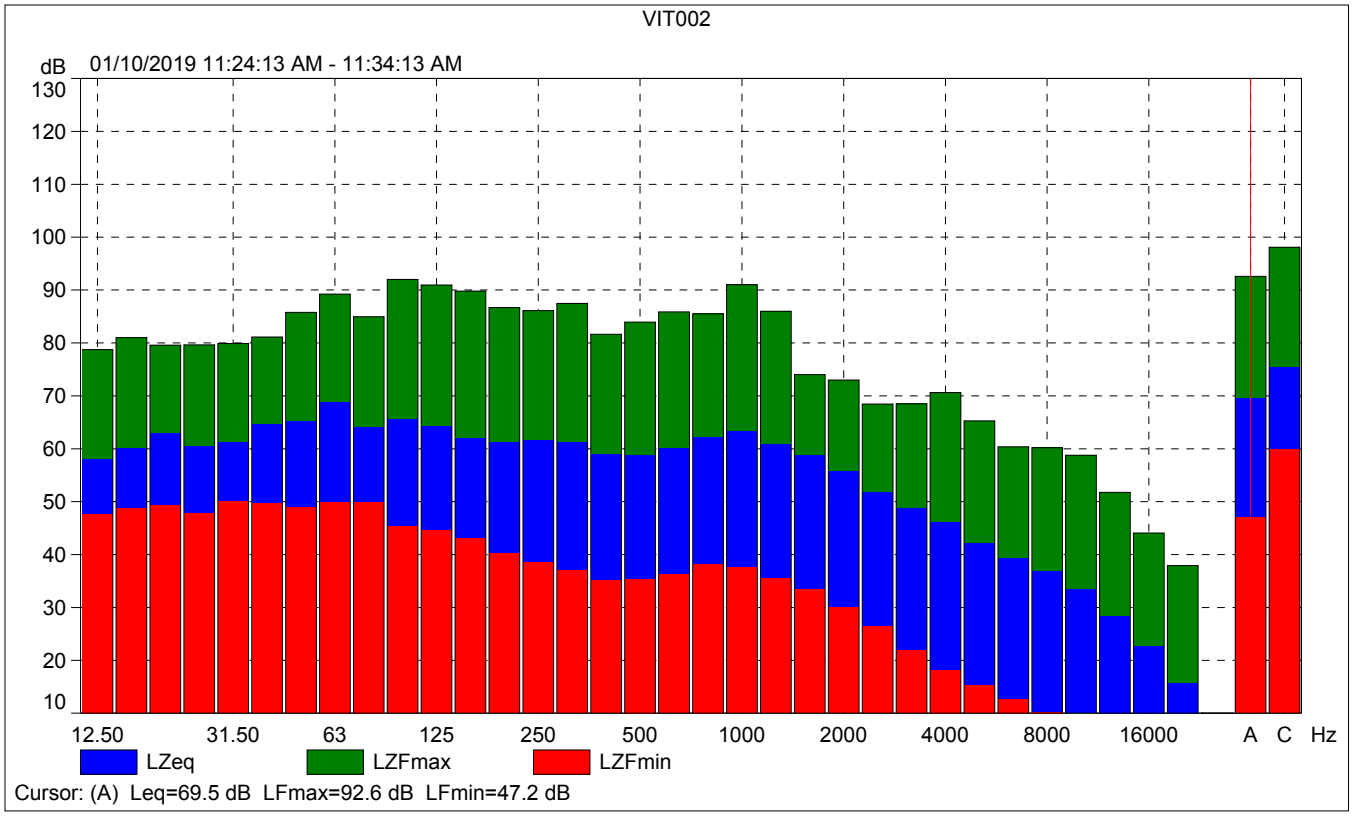
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

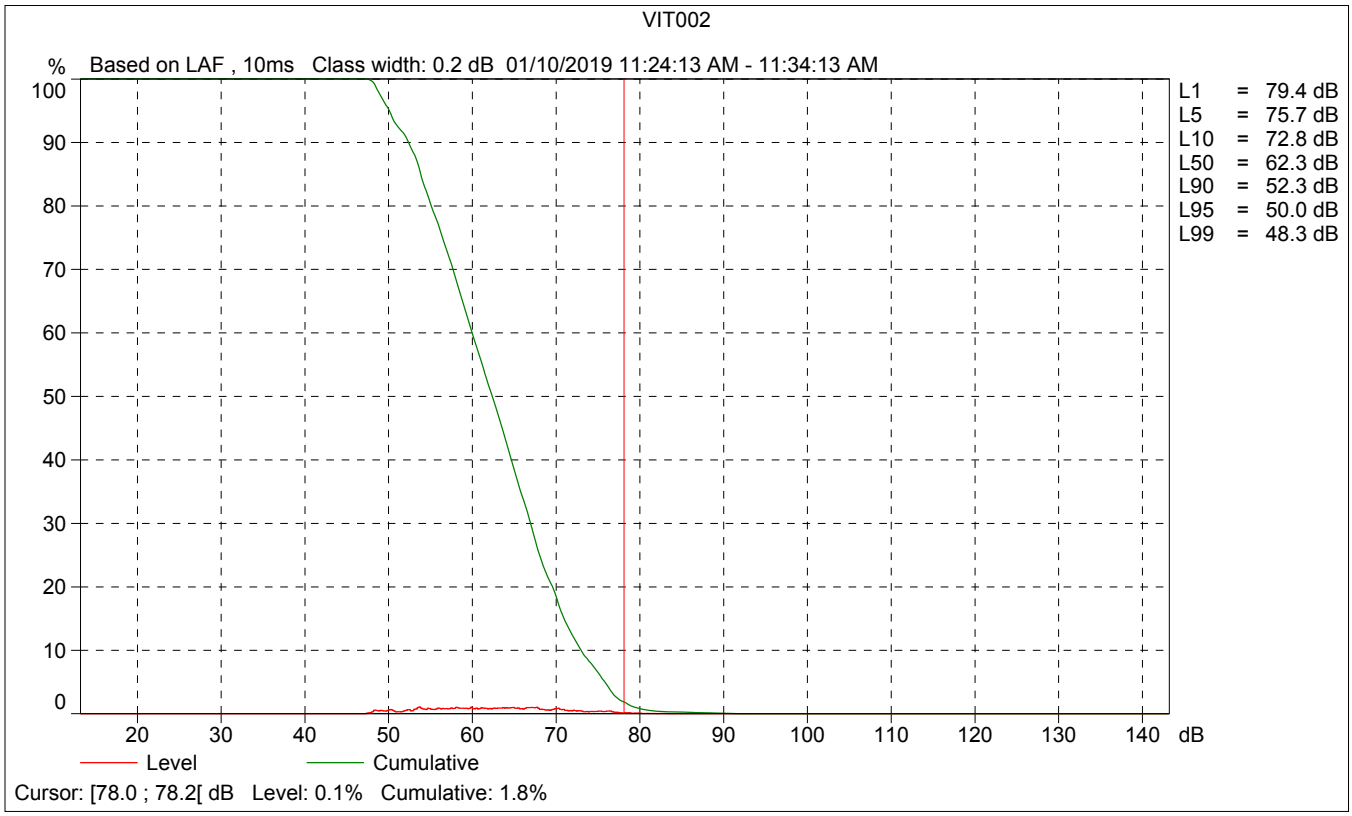
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

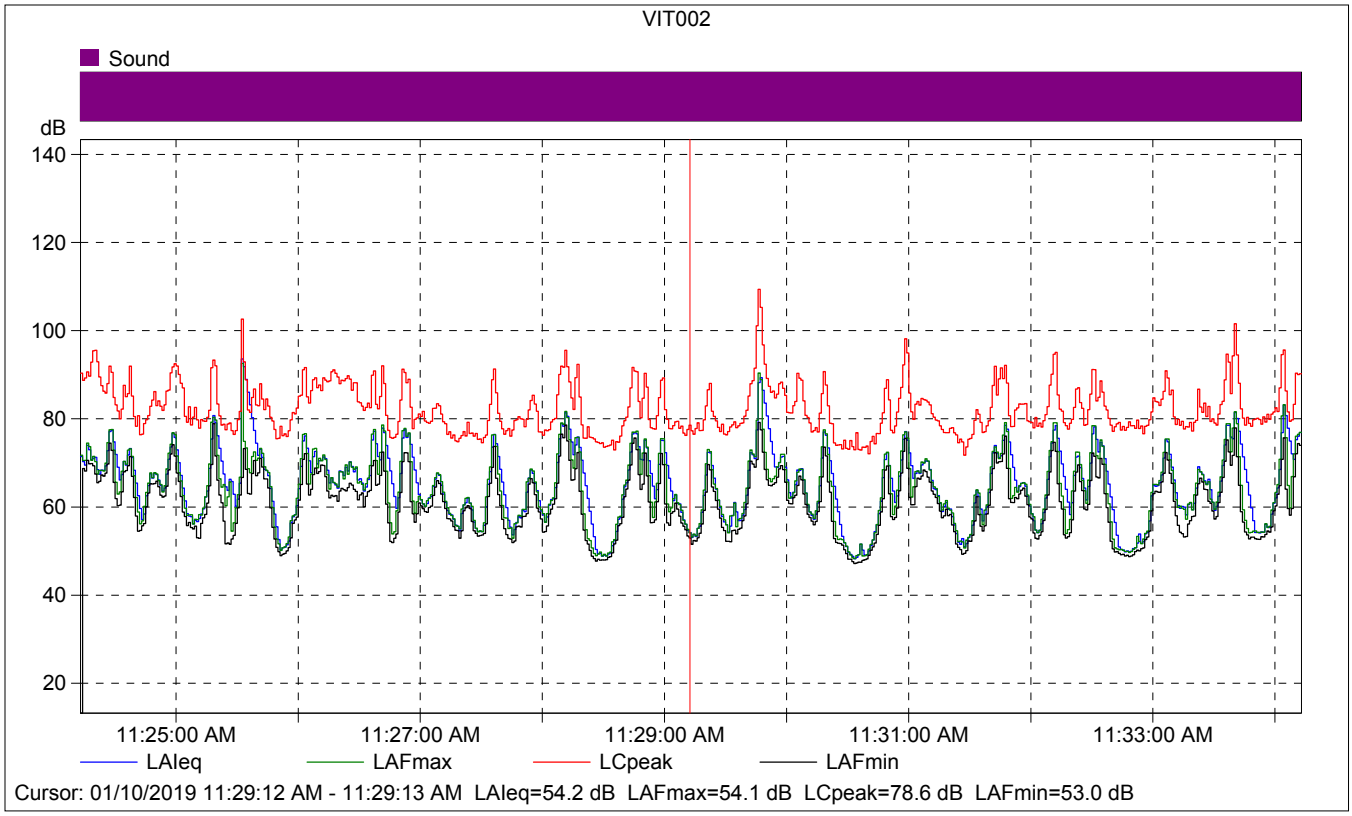
Calibration Time:		01/10/2019 08:58:54
Calibration Type:		External reference
Sensitivity:		44.001754373312 mV/Pa

VIT002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	69.5	92.6	47.2
Time	11:24:13 AM	11:34:13 AM	0:10:00				
Date	01/10/2019	01/10/2019					

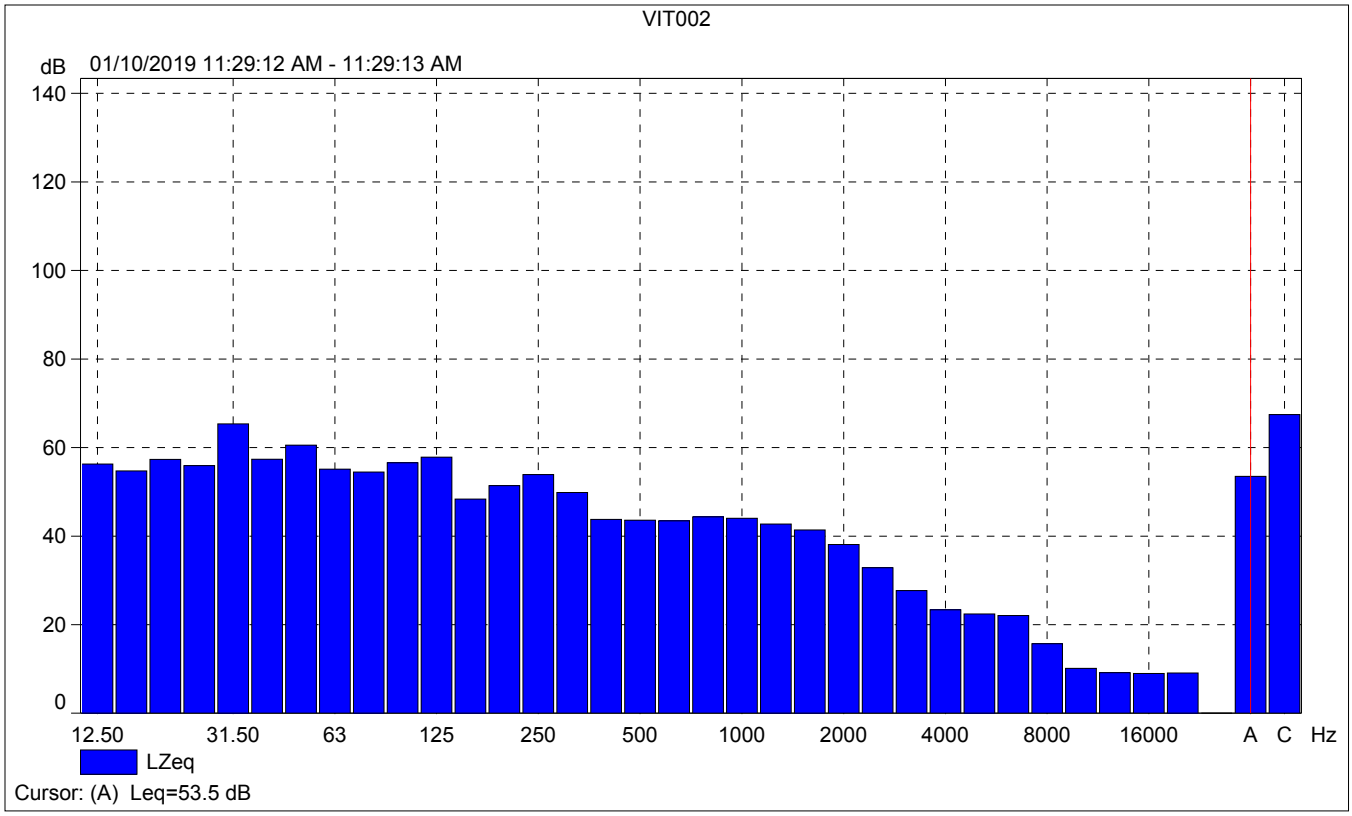

VIT002
dB
01/10/2019 11:24:13 AM - 11:34:13 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=69.5 dB LFmax=92.6 dB LFmin=47.2 dB

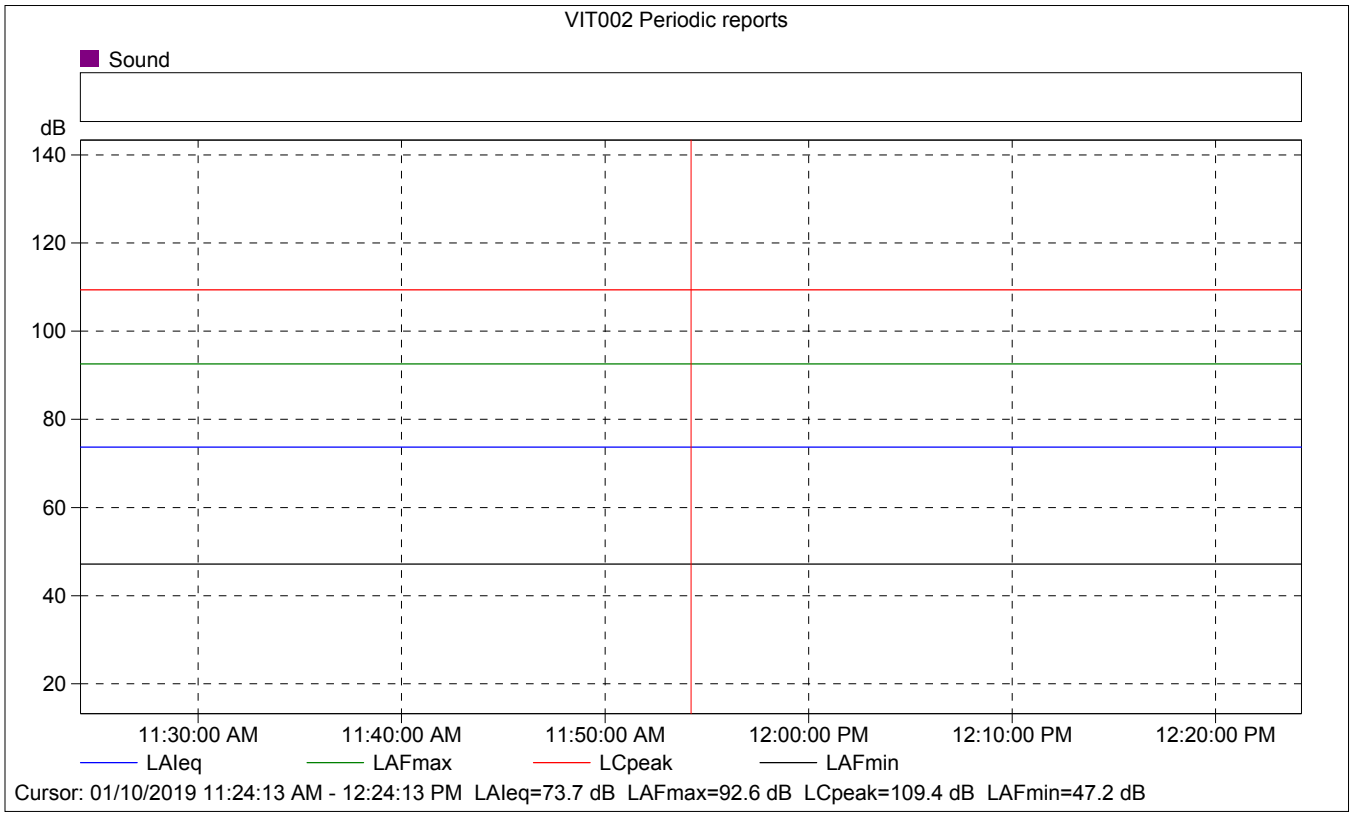

VIT002
%
Based on LAF , 10ms Class width: 0.2 dB 01/10/2019 11:24:13 AM - 11:34:13 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 79.4 dB
L5 = 75.7 dB
L10 = 72.8 dB
L50 = 62.3 dB
L90 = 52.3 dB
L95 = 50.0 dB
L99 = 48.3 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.1% Cumulative: 1.8%



VIT002

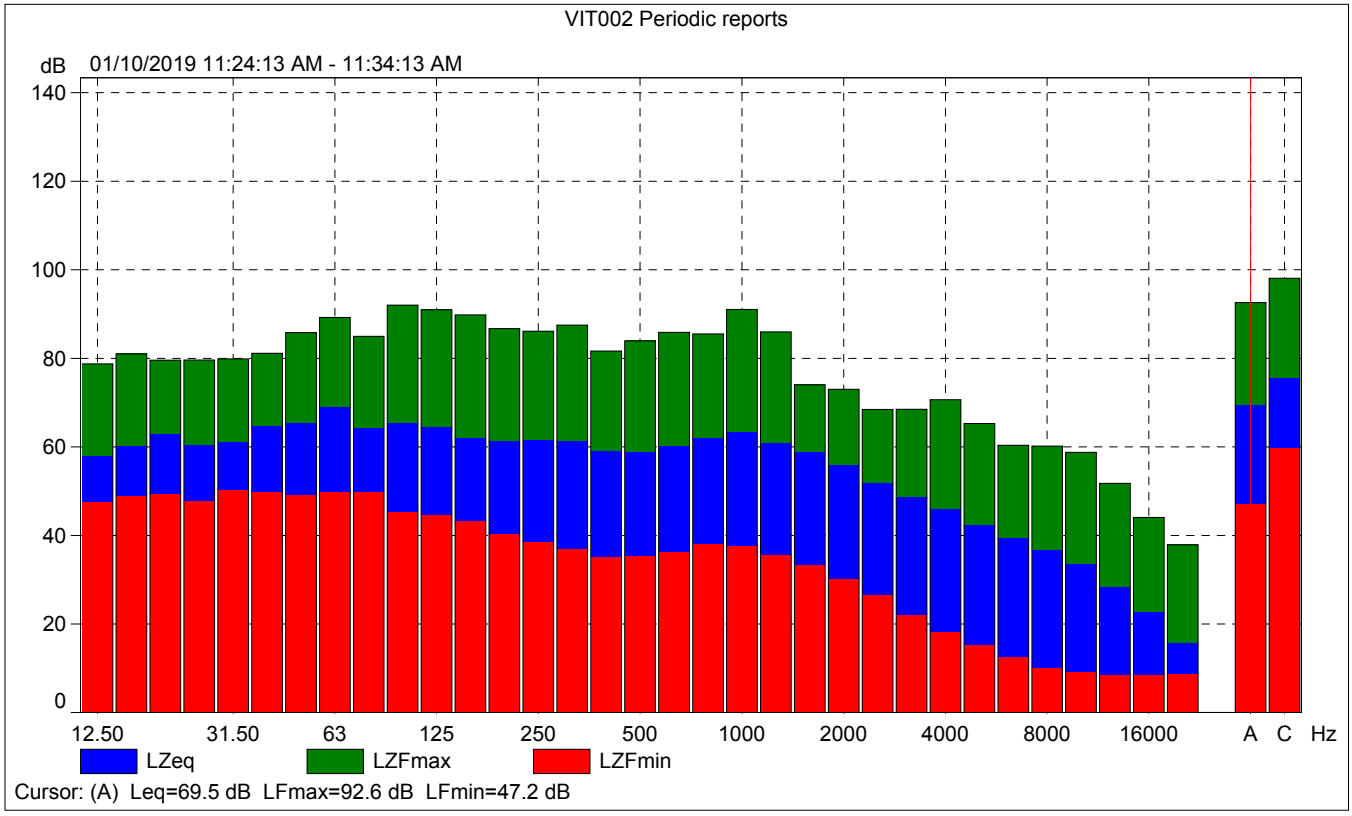
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			54.2	54.1	53.0
Time	11:29:12 AM	0:00:01			
Date	01/10/2019				

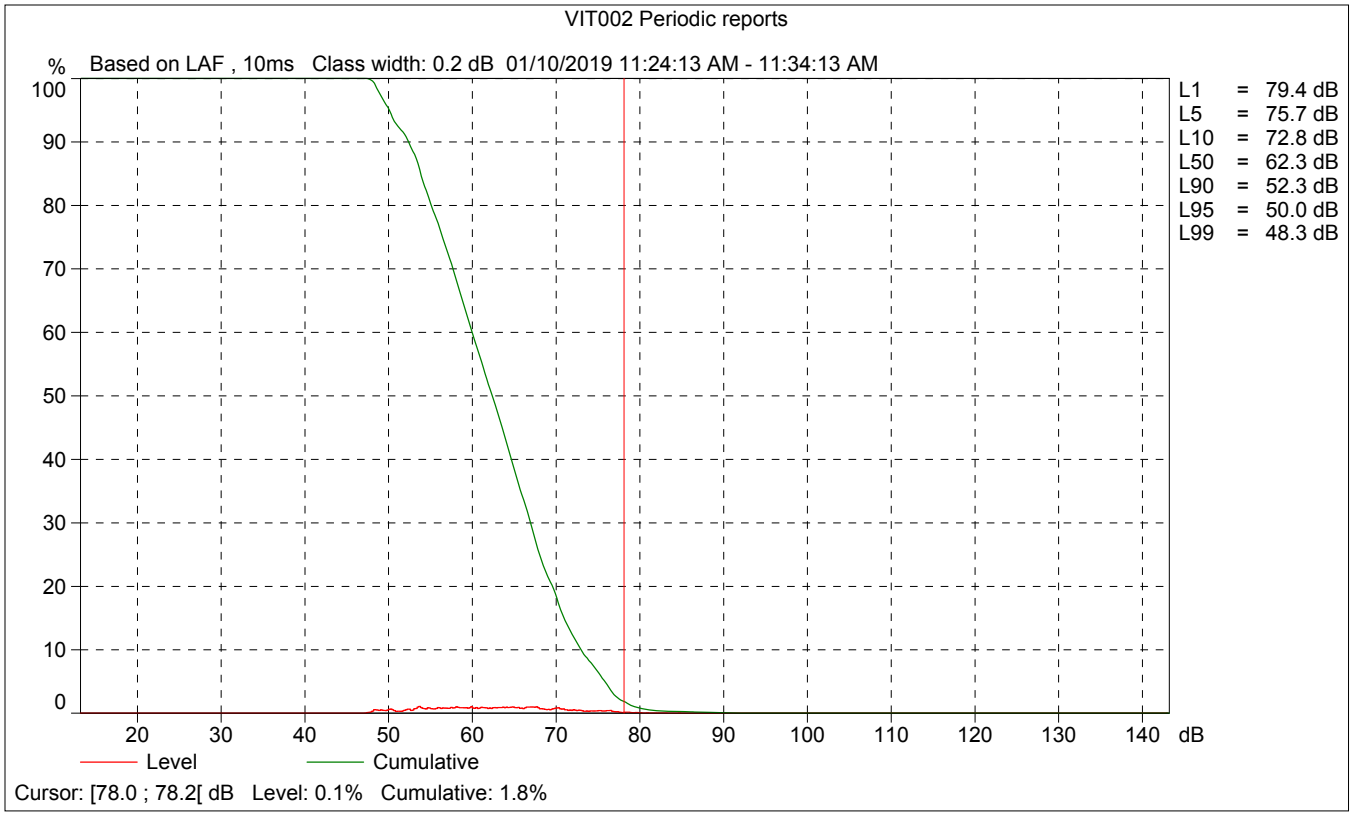

VIT002
dB
01/10/2019 11:29:12 AM - 11:29:13 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=53.5 dB


VIT002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
11:30:00 AM
11:40:00 AM
11:50:00 AM
12:00:00 PM
12:10:00 PM
12:20:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 01/10/2019 11:24:13 AM - 12:24:13 PM LAIeq=73.7 dB LAFmax=92.6 dB LCpeak=109.4 dB LAFmin=47.2 dB

VIT002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	73.7	92.6	47.2
Time	11:24:13 AM	0:10:00				
Date	01/10/2019					




VIT002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 01/10/2019 11:24:13 AM - 11:34:13 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 = 79.4 dB
L5 = 75.7 dB
L10 = 72.8 dB
L50 = 62.3 dB
L90 = 52.3 dB
L95 = 50.0 dB
L99 = 48.3 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.1% Cumulative: 1.8%

Site Number: 3			
Recorded By: Danielle Regimbal/Pierre Glaize			
Job Number: 170628			
Date: 1/10/19			
Time: 11:39 A.M.			
Location: Eastern East Sagebank Street cul-de-sac.			
Source of Peak Noise: Lawnmower, airplane, and helicopter.			
Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
56.3	42.4	72.4	98.4

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**3/29/2018**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**3/26/2018**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**3/29/2018**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**3/28/2018**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Partially Cloudy
	Note: dBA Offset = 0.08		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	SW 2 mph	61	30.14 inHg

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		01/10/2019 11:39:50
End Time:		01/10/2019 11:49:50
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.05

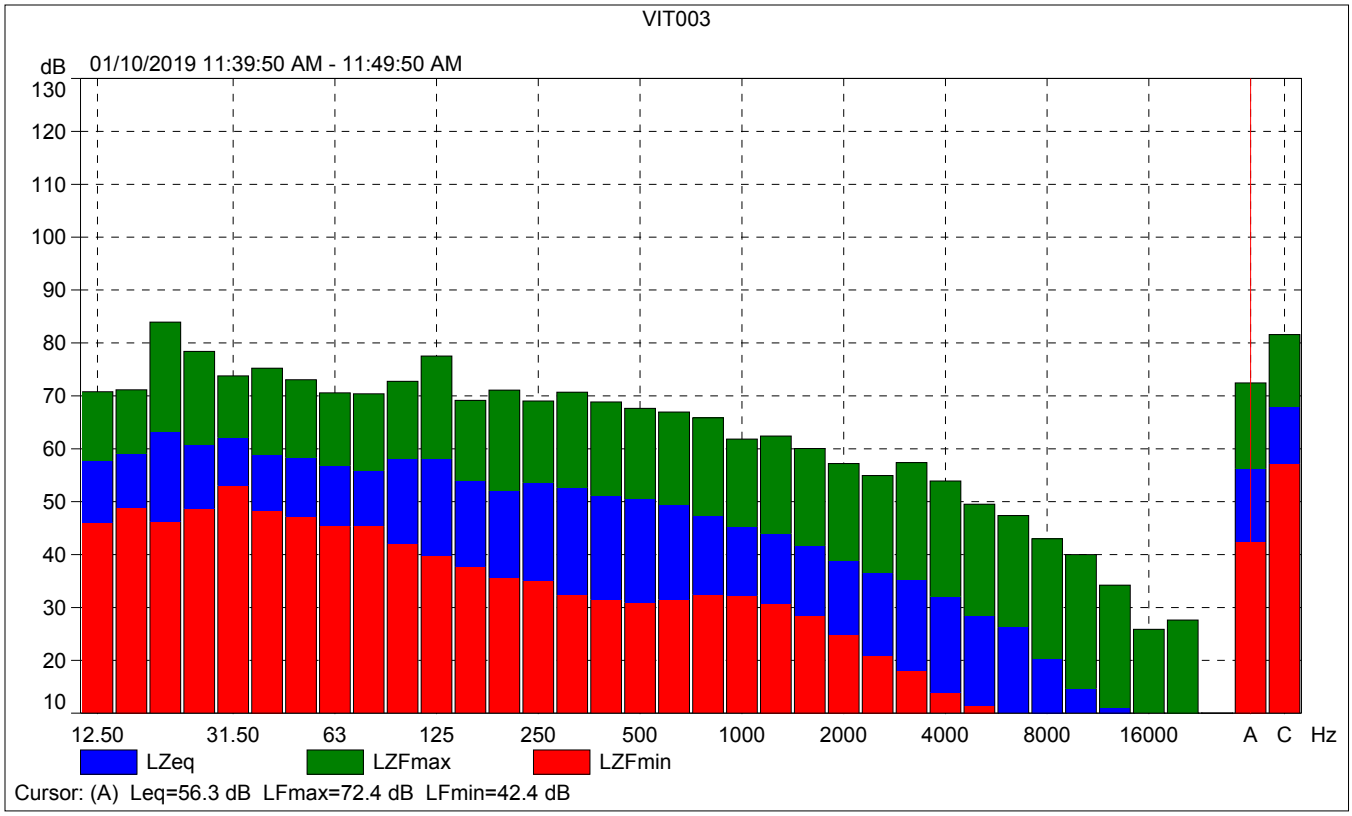
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

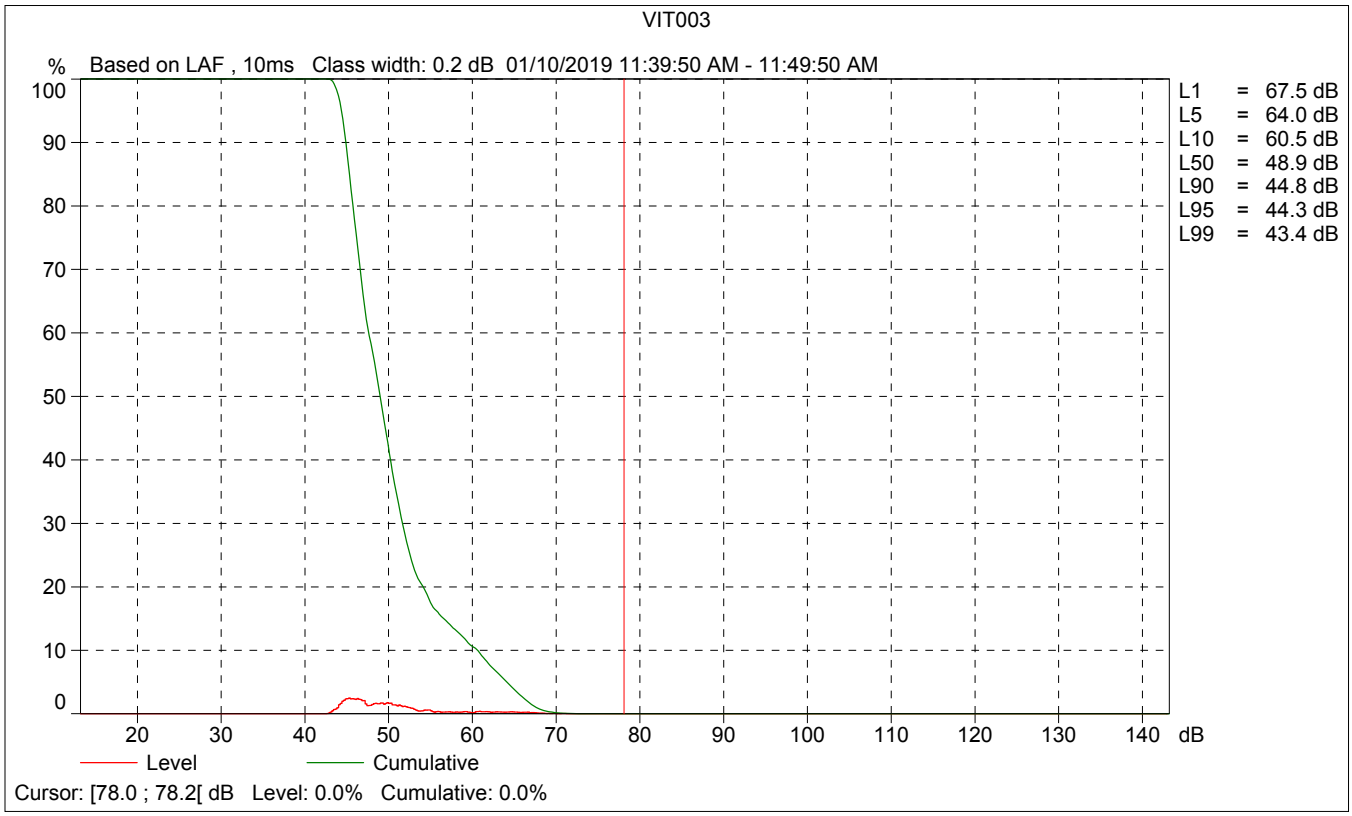
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

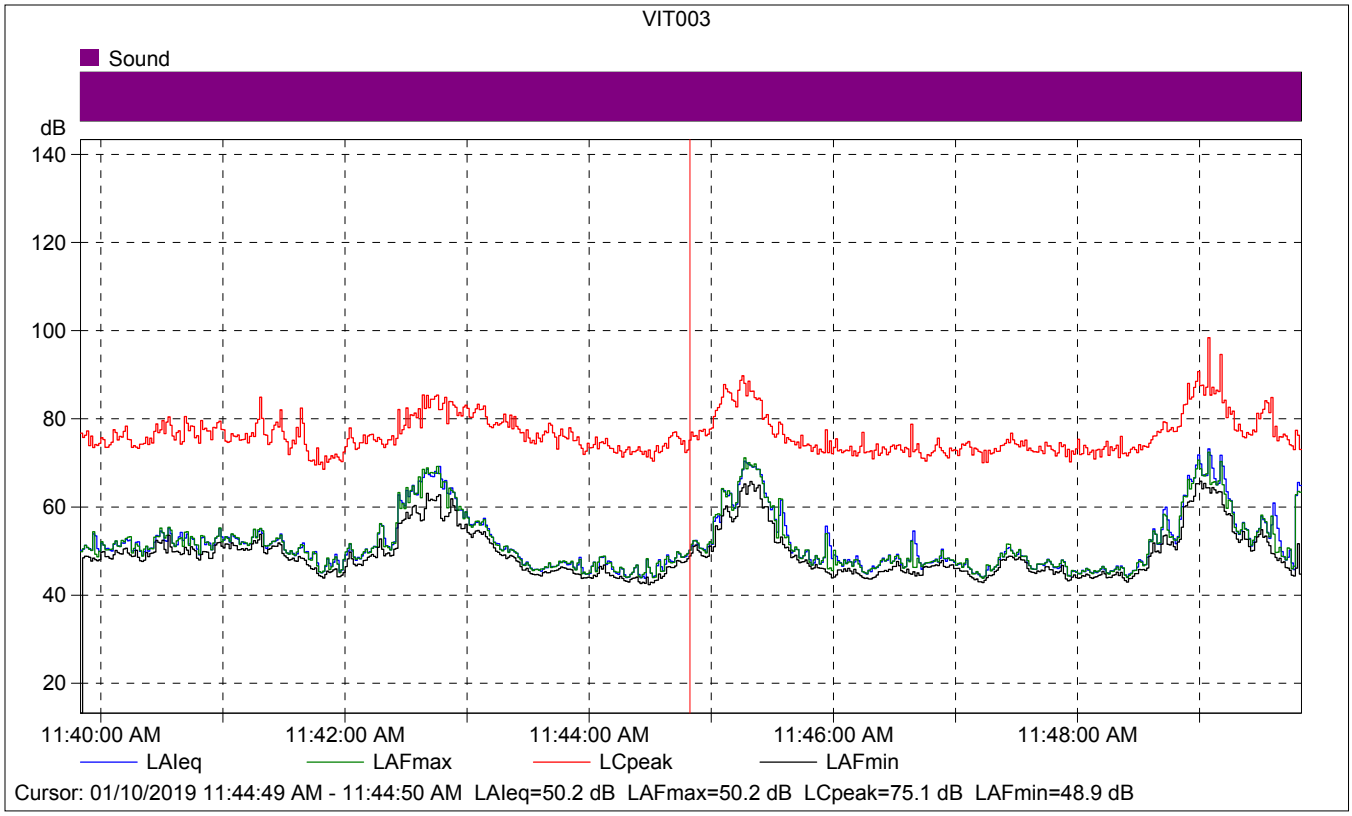
Calibration Time:		01/10/2019 08:58:54
Calibration Type:		External reference
Sensitivity:		44.001754373312 mV/Pa

VIT003

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	56.3	72.4	42.4
Time	11:39:50 AM	11:49:50 AM	0:10:00				
Date	01/10/2019	01/10/2019					

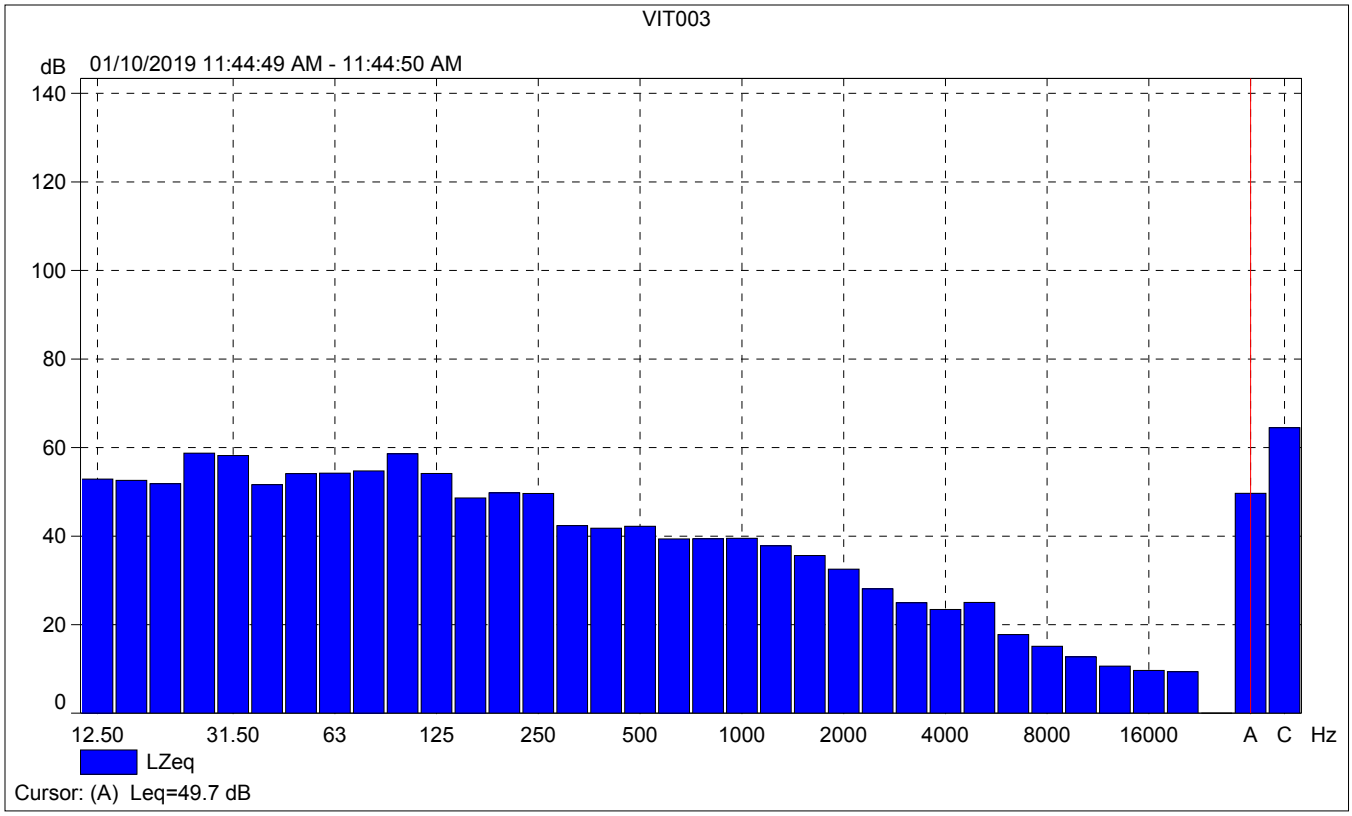

VIT003
dB
01/10/2019 11:39:50 AM - 11:49:50 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=56.3 dB LFmax=72.4 dB LFmin=42.4 dB

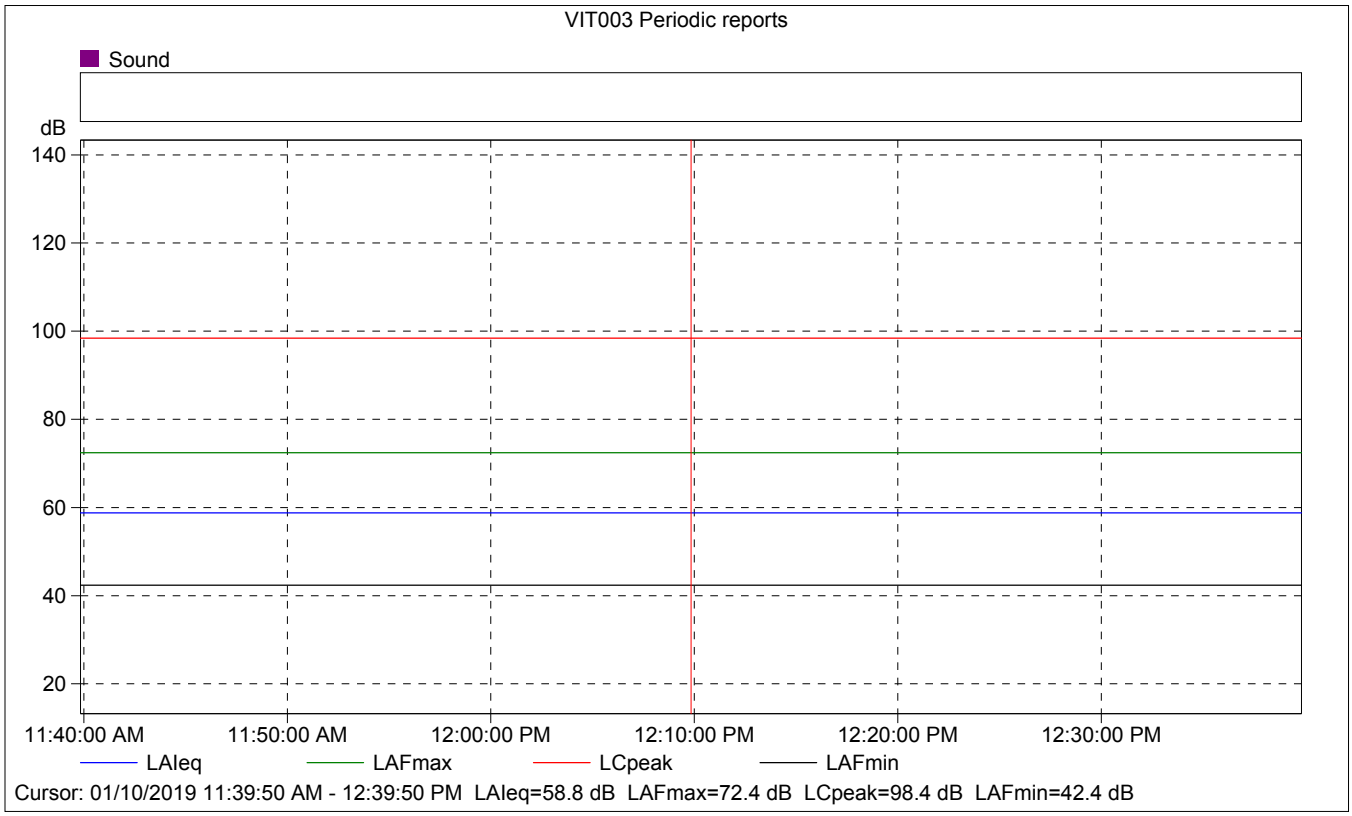

VIT003
%
Based on LAF , 10ms Class width: 0.2 dB 01/10/2019 11:39:50 AM - 11:49:50 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 67.5 dB
L5 = 64.0 dB
L10 = 60.5 dB
L50 = 48.9 dB
L90 = 44.8 dB
L95 = 44.3 dB
L99 = 43.4 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%



VIT003

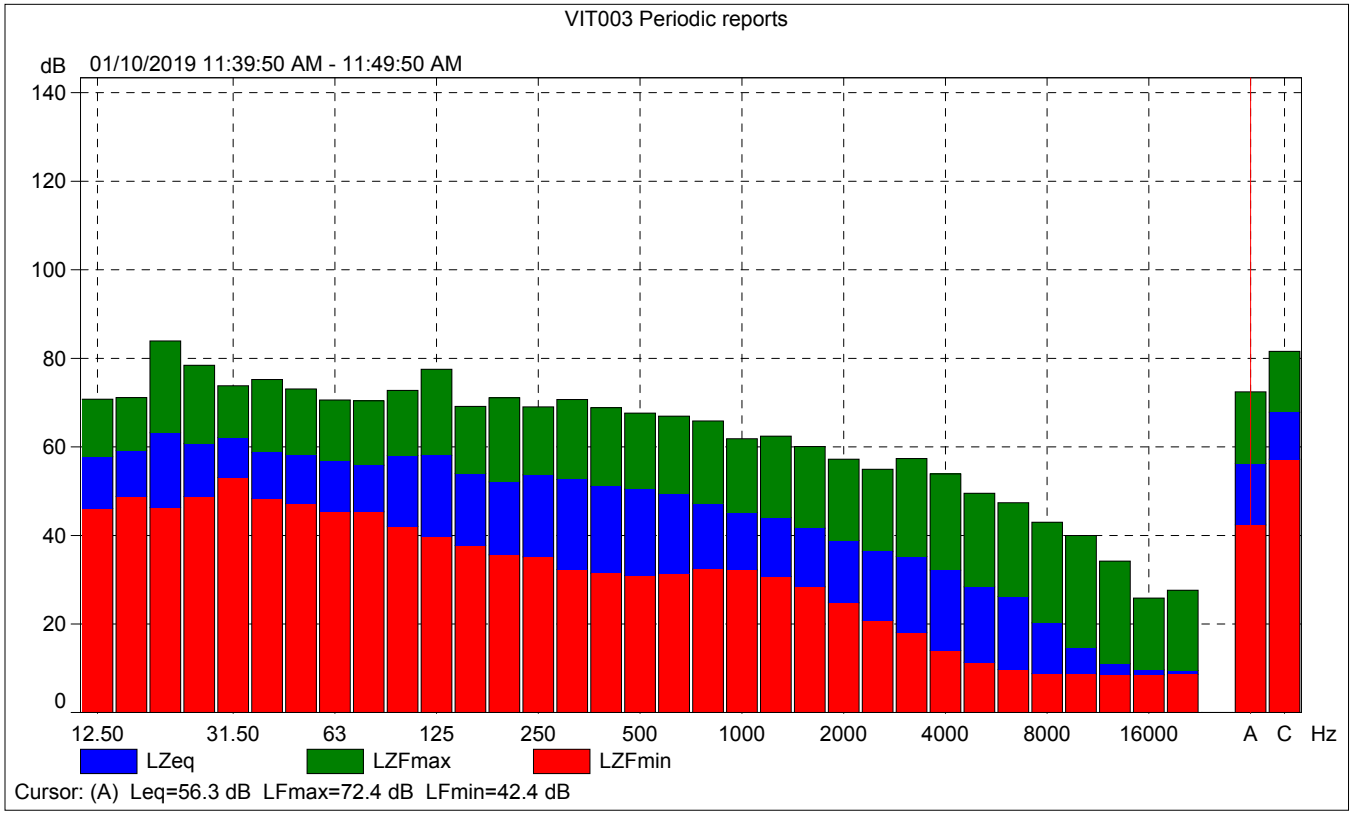
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			50.2	50.2	48.9
Time	11:44:49 AM	0:00:01			
Date	01/10/2019				

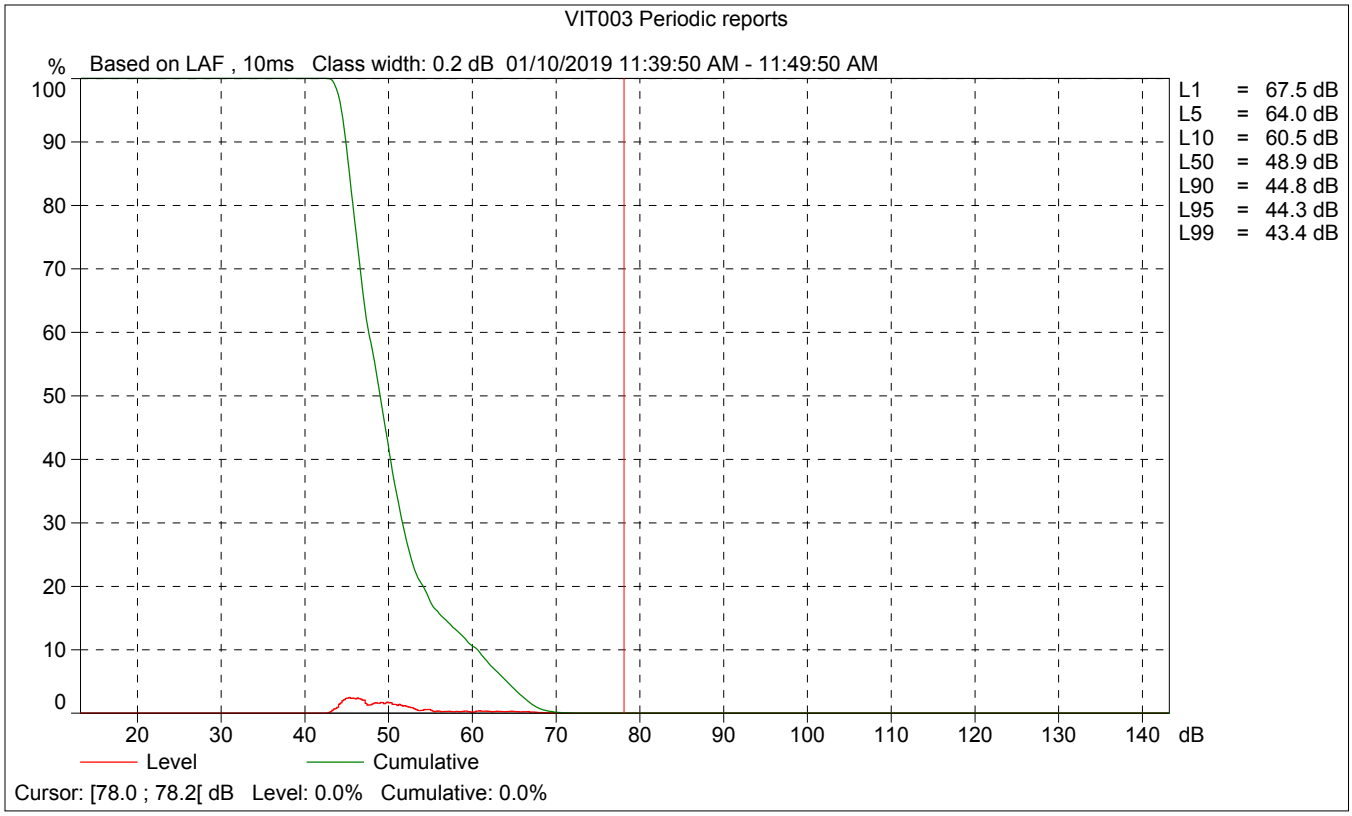

VIT003
dB
01/10/2019 11:44:49 AM - 11:44:50 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=49.7 dB


VIT003 Periodic reports
Sound
dB
140
120
100
80
60
40
20
11:40:00 AM
11:50:00 AM
12:00:00 PM
12:10:00 PM
12:20:00 PM
12:30:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 01/10/2019 11:39:50 AM - 12:39:50 PM LAIeq=58.8 dB LAFmax=72.4 dB LCpeak=98.4 dB LAFmin=42.4 dB

VIT003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	58.8	72.4	42.4
Time	11:39:50 AM	0:10:00				
Date	01/10/2019					




VIT003 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 01/10/2019 11:39:50 AM - 11:49:50 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 = 67.5 dB
L5 = 64.0 dB
L10 = 60.5 dB
L50 = 48.9 dB
L90 = 44.8 dB
L95 = 44.3 dB
L99 = 43.4 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/26/2019
Case Description: 1007 E. Victoria Street ISMND

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
North	Residential	1	1	1

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	13	3
Grader	No	40	85		13	3
Front End Loader	No	40		79.1	13	3

	Results Calculated (dBA)		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	89.4	85.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	93.7	89.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	87.8	83.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	98.3	96.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
East	Residential	1	1	1

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	98	3
Grader	No	40	85		98	3
Front End Loader	No	40		79.1	98	3

	Results Calculated (dBA)		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	71.9	67.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	76.2	72.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	70.3	66.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.7	78.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
West	Residential	1	1	1

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	7	3
Grader	No	40	85		7	3
Front End Loader	No	40		79.1	7	3

Results

	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	94.8	90.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	99.1	95.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	93.2	89.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	99.1	97.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

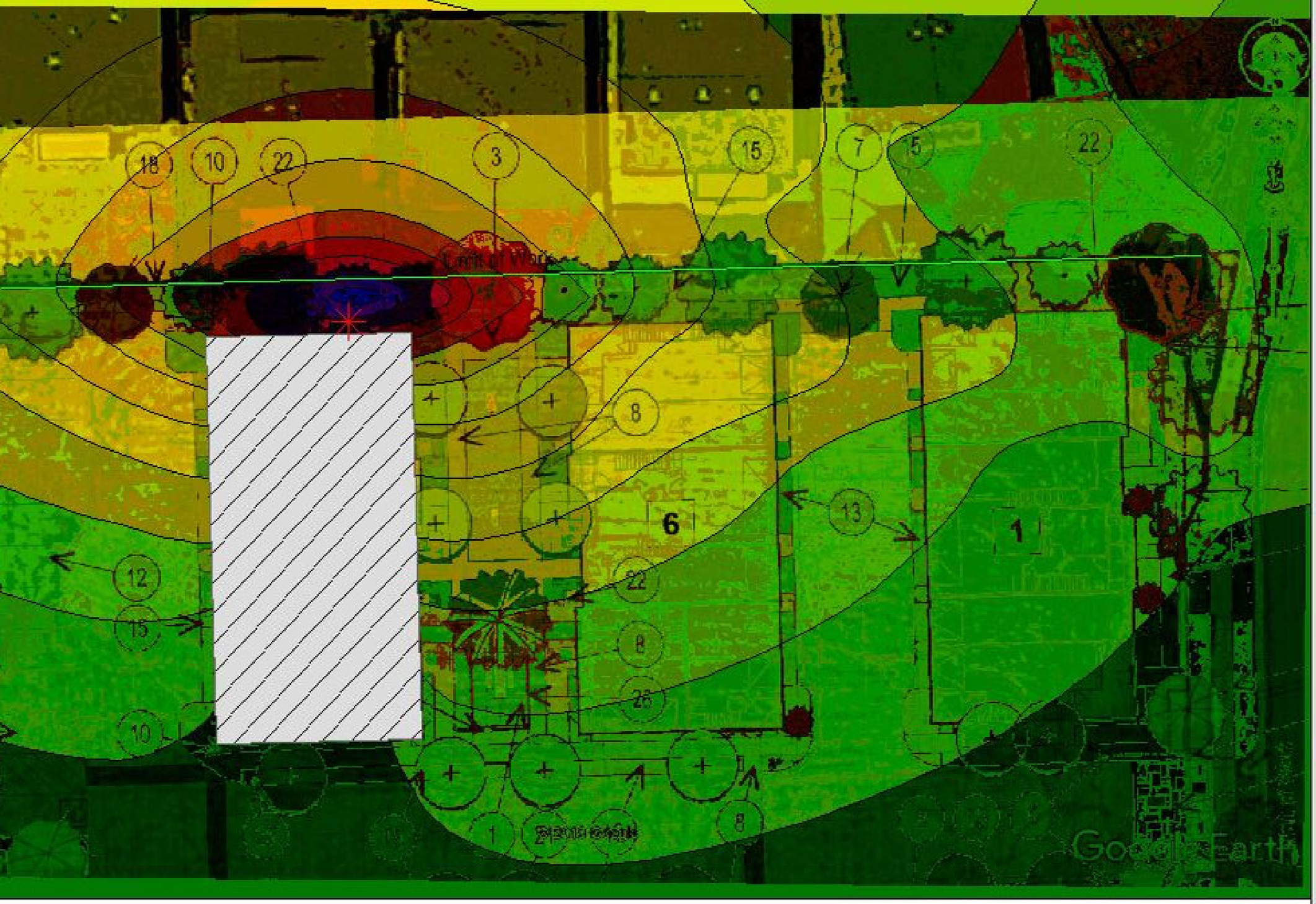
*Calculated Lmax is the Loudest value.

Signs and symbols

- Wall
- Receiver
- Calculation area
- Point source
- Facade with conflict

1 : 463

0 2.5 5 10 15



Signs and symbols

- Wall
- Calculation area
- Point source
- Facade with conflict

Levels in dB(A)

<= 18
18 - 21
21 - 24
24 - 27
27 - 30
30 - 33
33 - 36
36 - 39
39 - 42
42 - 45
45 - 48
48 - 51
> 51

1 : 463

0 2.5 5 10 15