

APPENDIX H:
NOISE MONITORING DATA AND CALCULATIONS WORKSHEETS

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Summary

File Name on Meter 831_Data.214
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Todd Davis
Job Description Enlightenment Plaza
Location 1: Southeast corner of Madison Avenue and Cosmopolitan Street
Noise Source: Light pedestrian and moderate vehicle traffic

Measurement

Description
Start 2019-06-13 11:35:00
Stop 2019-06-13 11:50:00
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-06-13 11:22:13
Post Calibration None
Calibration Deviation ---


Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.0 dB		
	A	C	Z
Under Range Peak	74.4	71.4	76.4 dB
Under Range Limit	25.9	26.1	31.2 dB
Noise Floor	16.8	17.0	22.0 dB

Results

LAeq	58.6 dB	
LAE	88.2 dB	
EA	73.218 $\mu\text{Pa}^2\text{h}$	
LZpeak (max)	2019-06-13 11:47:38	97.3 dB
LASmax	2019-06-13 11:47:38	81.8 dB
LASmin	2019-06-13 11:46:18	47.4 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	7	32.3 s
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	58.6	58.6	58.6	58.6
LCeq	68.8 dB			
LAeq	58.6 dB			
LCeq - LAeq	10.2 dB			
LAeq	62.9 dB			
LAeq	58.6 dB			
LAeq - LAeq	4.3 dB			

Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A	
dB	Time Stamp
58.6	
81.8	2019/06/13 11:47:38
85.6	2019/06/13 11:47:38
87.6	2019/06/13 11:47:38
47.4	2019/06/13 11:46:18
46.5	2019/06/13 11:46:25
46.9	2019/06/13 11:46:25
96.2	2019/06/13 11:47:38

Overloads

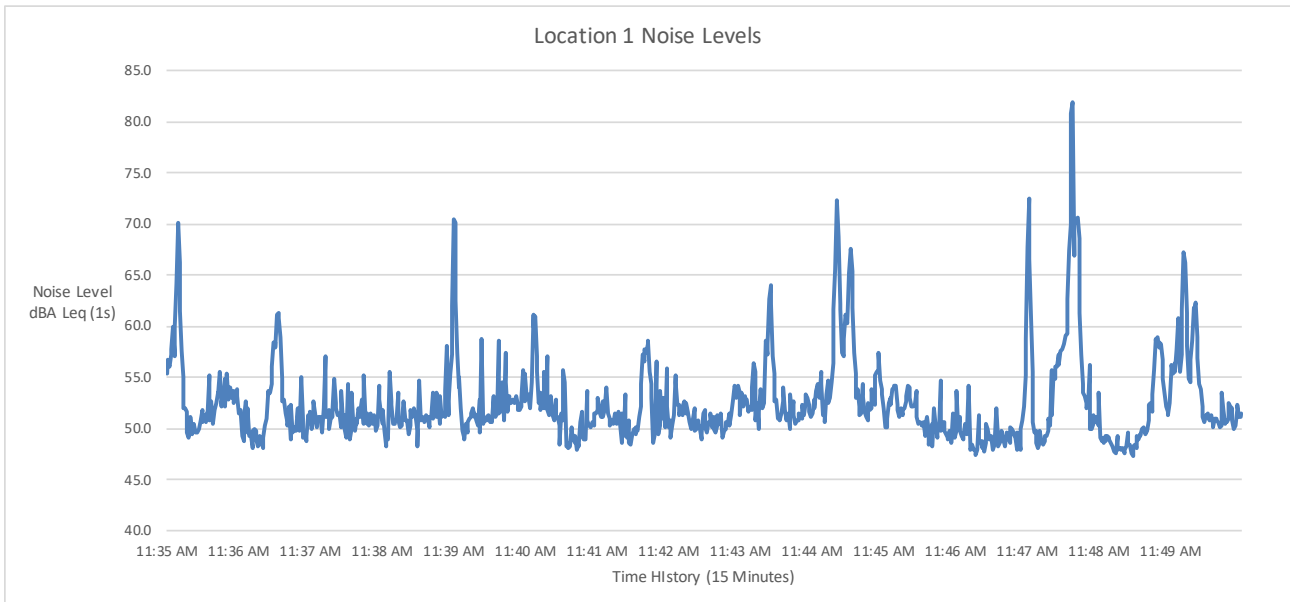
0

Overload Duration

0.0 s

Statistics

LAS5.00	61.0 dB
LAS10.00	58.0 dB
LAS33.30	52.8 dB
LAS50.00	51.6 dB
LAS66.60	50.8 dB
LAS90.00	49.2 dB



Summary

File Name on Meter 831_Data.215
 Serial Number 0003748
 Model Model 831
 Firmware Version 2.311
 User Todd Davis
 Job Description Enlightenment Plaza
 Location 2: East side of Westmoreland Avenue between Oakwood Avenue and Beverly Blvd
 Noise Source: Light pedestrian vehicle and pedestrian use, ongoing construction on the West side of Westmoreland Avenue



Measurement

Description
 Start 2019-06-13 12:06:40
 Stop 2019-06-13 12:21:40
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-06-13 11:22:09
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.0 dB		
	A	C	Z
Under Range Peak	74.4	71.4	76.4 dB
Under Range Limit	25.9	26.1	31.2 dB
Noise Floor	16.8	17.0	22.0 dB

Results

LAeq	67.5 dB	
LAE	97.0 dB	
EA	556.763 $\mu\text{Pa}^2\text{h}$	
LZpeak (max)	2019-06-13 12:07:46	107.3 dB
LASmax	2019-06-13 12:07:46	80.1 dB
LASmin	2019-06-13 12:18:30	56.0 dB
SEA	-99.9 dB	

LAS > 65.0 dB (Exceedance Counts / Duration)	24	420.8 s
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	67.5	67.5	67.5	67.5

LCeq	76.5 dB
LAeq	67.5 dB
LCeq - LAeq	9.0 dB
LALeq	72.5 dB
LAeq	67.5 dB
LALeq - LAeq	5.0 dB

Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A	
dB	Time Stamp
67.5	
80.1	2019/06/13 12:07:46
85.3	2019/06/13 12:07:46
89.6	2019/06/13 12:07:46
56.0	2019/06/13 12:18:30
55.0	2019/06/13 12:18:30
55.5	2019/06/13 12:18:30
108.8	2019/06/13 12:07:46

Overloads

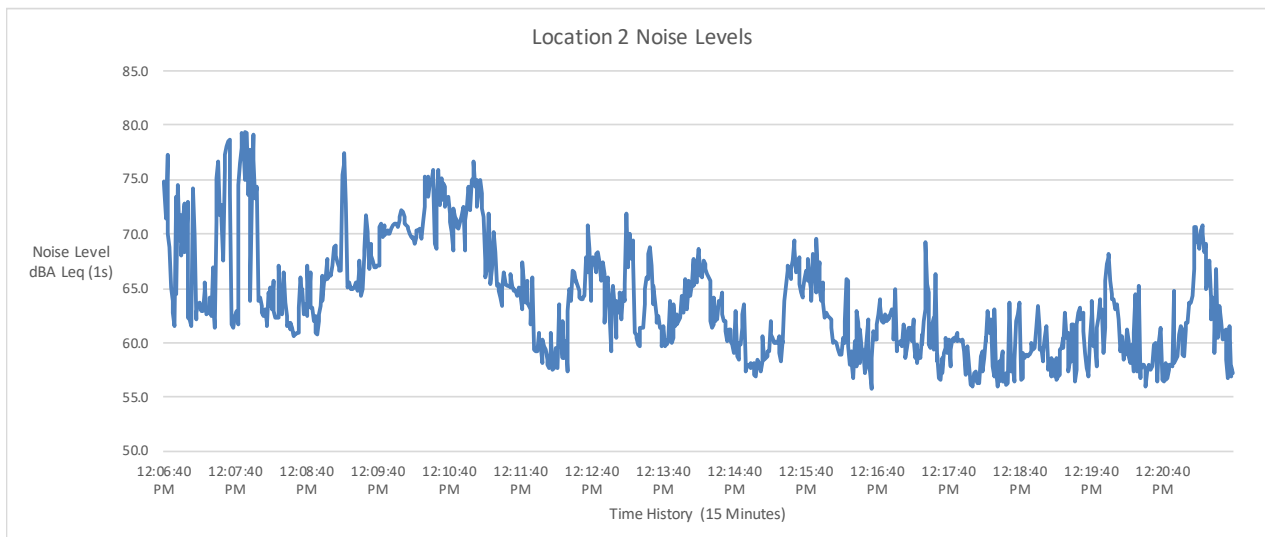
0

Overload Duration

0.0 s

Statistics

LAS5.00	73.9 dB
LAS10.00	71.3 dB
LAS33.30	65.5 dB
LAS50.00	63.2 dB
LAS66.60	61.0 dB
LAS90.00	58.5 dB



Summary

File Name on Meter 831_Data.216
 Serial Number 0003748
 Model Model 831
 Firmware Version 2.311
 User Todd Davis
 Job Description Enlightenment Plaza
 Location 3: East side of Madison Avenue between Oakwood Avenue and Beverly Blvd
 Noise Source: Moderate pedestrian and light vehicle traffic. Construction on site is audible.


Measurement

Description
 Start 2019-06-13 12:36:39
 Stop 2019-06-13 12:51:39
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-06-13 11:22:09
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.0 dB		
	A	C	Z
Under Range Peak	74.4	71.4	76.4 dB
Under Range Limit	25.9	26.1	31.2 dB
Noise Floor	16.8	17.0	22.0 dB

Results

LAeq	74.1 dB	
LAE	103.6 dB	
EA	2.556 mPa ² h	
LZpeak (max)	2019-06-13 12:39:14	106.1 dB
LASmax	2019-06-13 12:39:15	88.0 dB
LASmin	2019-06-13 12:44:47	60.5 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	28	689.8 s
LAS > 85.0 dB (Exceedance Counts / Duration)	6	16.3 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	74.1	74.1	74.1	74.1
LCeq	78.2 dB			
LAeq	74.1 dB			
LCeq - LAeq	4.1 dB			
LALeq	80.7 dB			
LAeq	74.1 dB			
LALeq - LAeq	6.6 dB			

Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A	
dB	Time Stamp
74.1	
88.0	2019/06/13 12:39:15
94.3	2019/06/13 12:39:14
97.0	2019/06/13 12:39:14
60.5	2019/06/13 12:44:47
59.5	2019/06/13 12:45:11
60.2	2019/06/13 12:44:47
106.3	2019/06/13 12:39:01

Overloads

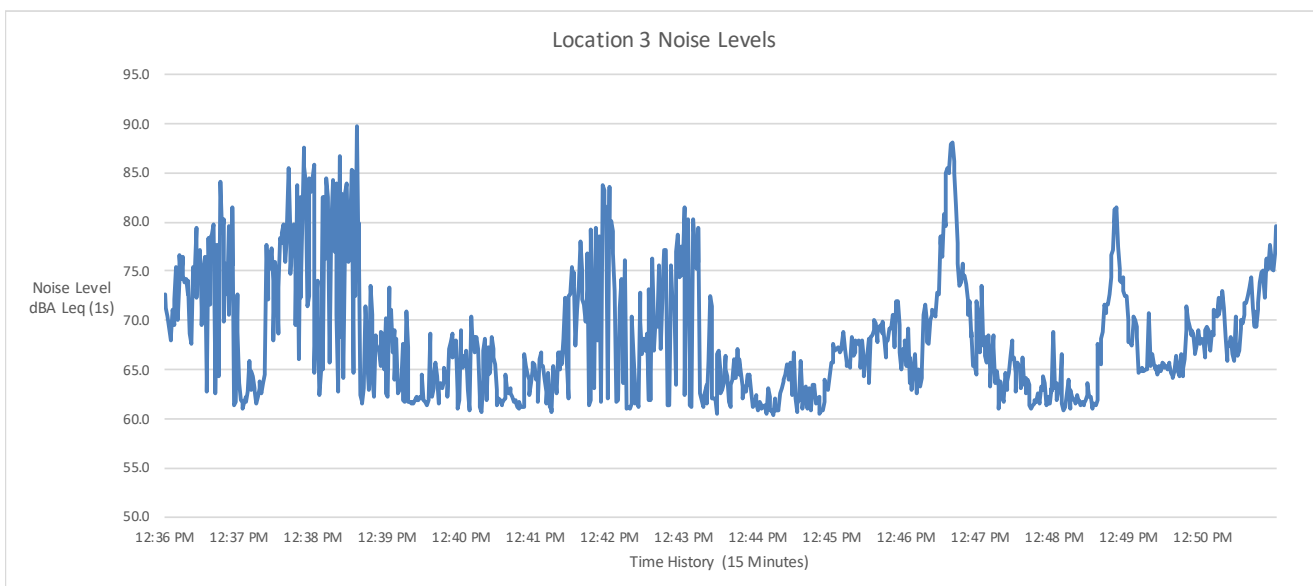
0

Overload Duration

0.0 s

Statistics

LAS5.00	80.7 dB
LAS10.00	77.7 dB
LAS33.30	70.4 dB
LAS50.00	67.4 dB
LAS66.60	65.1 dB
LAS90.00	62.0 dB



Summary

File Name on Meter 831_Data.217
 Serial Number 0003748
 Model Model 831
 Firmware Version 2.311
 User Todd Davis
 Job Description Enlightenment Plaza
 Location 4: North side of Oakwood Avenue, between Juanita Avenue and Madison Avenue
 Noise Source: Light vehicle and pedestrian traffic


Measurement

Description
 Start 2019-06-13 12:59:03
 Stop 2019-06-13 13:14:03
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-06-13 11:22:09
 Post Calibration None
 Calibration Deviation --

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.0 dB		
	A	C	Z
Under Range Peak	74.4	71.4	76.4 dB
Under Range Limit	25.9	26.1	31.2 dB
Noise Floor	16.8	17.0	22.0 dB

Results

LAeq	66.7 dB	
LAE	96.2 dB	
EA	463.337 $\mu\text{Pa}^2\text{h}$	
LZpeak (max)	2019-06-13 13:00:57	107.8 dB
LASmax	2019-06-13 13:00:57	85.9 dB
LASmin	2019-06-13 13:10:31	54.0 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	43	416.4 s
LAS > 85.0 dB (Exceedance Counts / Duration)	1	1.5 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	66.7	66.7	66.7	66.7

LCeq	75.6 dB
LAeq	66.7 dB
LCeq - LAeq	8.9 dB
LAlaq	68.8 dB
LAeq	66.7 dB
LAlaq - LAeq	2.1 dB

Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A		
dB	Time Stamp	
66.7		
85.9	2019/06/13 13:00:57	
88.9	2019/06/13 13:00:57	
90.4	2019/06/13 13:00:57	
54.0	2019/06/13 13:10:31	
53.4	2019/06/13 13:10:31	
53.9	2019/06/13 13:10:31	
100.5	2019/06/13 13:00:57	

Overloads

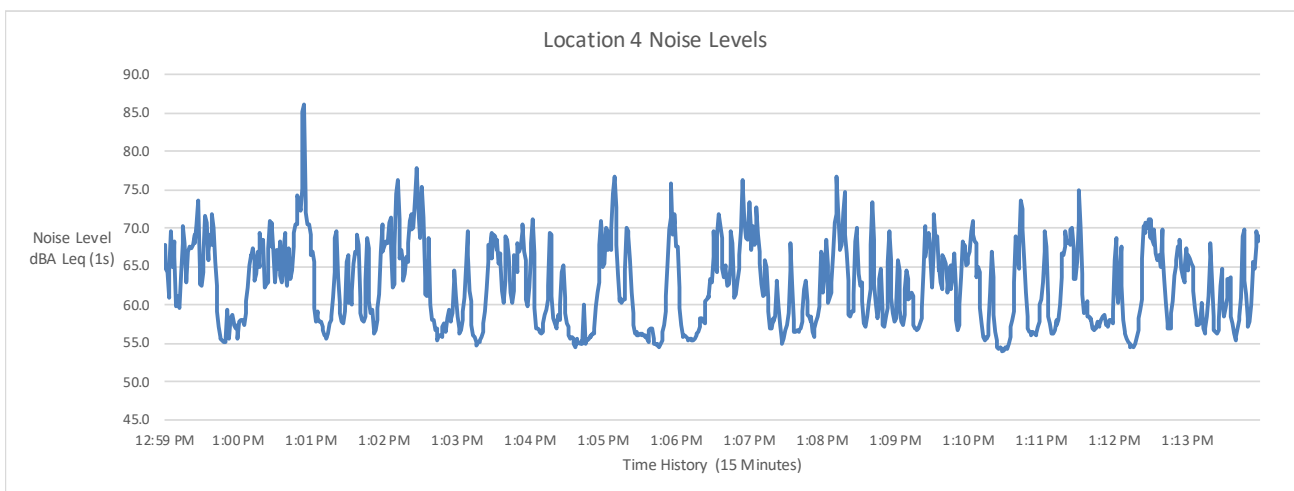
0

Overload Duration

0.0 s

Statistics

LAS5.00	71.1 dB
LAS10.00	69.4 dB
LAS33.30	65.8 dB
LAS50.00	62.9 dB
LAS66.60	59.2 dB
LAS90.00	56.2 dB



Summary

File Name on Meter 831_Data.219
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Todd Davis
Job Description Enlightenment Plaza
Location 5: West side of Juanita Avenue, between Oakwood Avenue and Beverly Avenue
Noise Source: Light pedestrian and moderate vehicle traffic.


Measurement

Description
Start 2019-06-13 13:33:34
Stop 2019-06-13 13:48:34
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-06-13 11:22:09
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.0 dB		
	A	C	Z
Under Range Peak	74.4	71.4	76.4 dB
Under Range Limit	25.9	26.1	31.2 dB
Noise Floor	16.8	17.0	22.0 dB

Results

LAeq	63.8 dB	
LAE	93.4 dB	
EA	242.248 $\mu\text{Pa}^2\text{h}$	
LZpeak (max)	2019-06-13 13:40:19	109.4 dB
LASmax	2019-06-13 13:40:18	86.2 dB
LASmin	2019-06-13 13:45:19	52.3 dB
SEA	-99.9 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	10	49.0 s
LAS > 85.0 dB (Exceedance Counts / Duration)	1	2.9 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	63.8	63.8	63.8	63.8

LCeq	76.2 dB
LAeq	63.8 dB
LCeq - LAeq	12.3 dB
LAlaq	66.3 dB
LAeq	63.8 dB
LAlaq - LAeq	2.4 dB

Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A	
dB	Time Stamp
63.8	
86.2	2019/06/13 13:40:18
88.2	2019/06/13 13:40:18
88.8	2019/06/13 13:40:18
52.3	2019/06/13 13:45:19
51.7	2019/06/13 13:45:14
52.0	2019/06/13 13:45:17
99.5	2019/06/13 13:40:17

Overloads

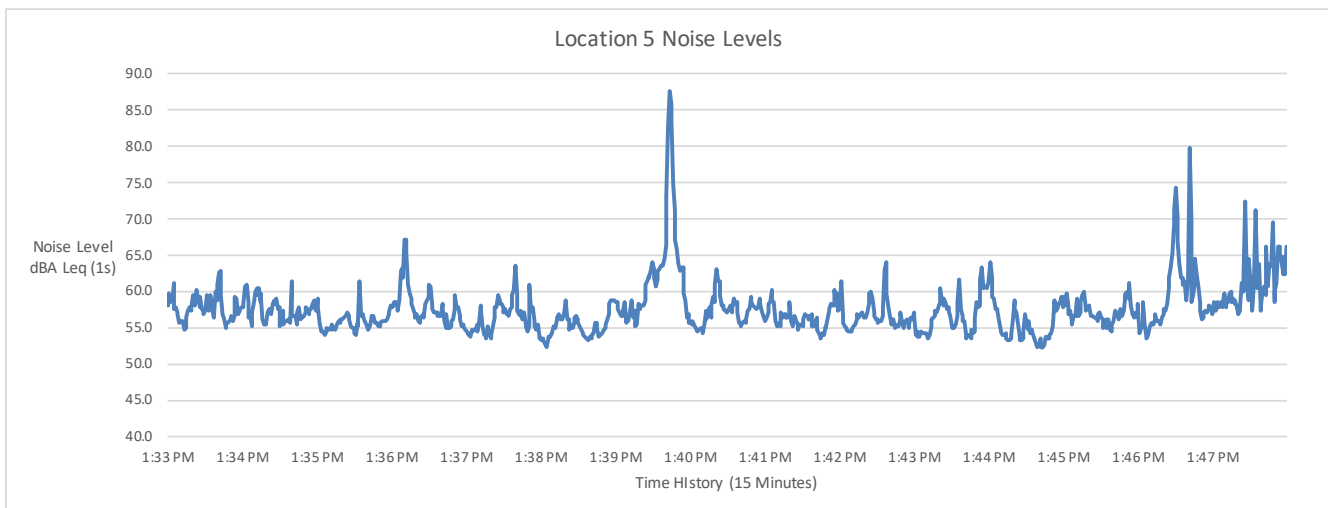
0

Overload Duration

0.0 s

Statistics

LAS5.00	63.8 dB
LAS10.00	61.6 dB
LAS33.30	57.9 dB
LAS50.00	56.9 dB
LAS66.60	56.1 dB
LAS90.00	54.5 dB



Summary

File Name on Meter 831_Data.220
Serial Number 0003748
Model Model 831
Firmware Version 2.311
User Todd Davis
Job Description Enlightenment Plaza
Location 6: East Side of Vermont Avenue, between Oakwood Avenue and Beverly Blvd
Noise Source: Heavy vehicle and light pedestrian traffic


Measurement

Description
Start 2019-06-13 14:01:56
Stop 2019-06-13 14:16:56
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-06-13 11:22:09
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamplifier	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.0 dB		
	A	C	Z
Under Range Peak	74.4	71.4	76.4 dB
Under Range Limit	25.9	26.1	31.2 dB
Noise Floor	16.8	17.0	22.0 dB

Results

LAeq	76.6 dB	
LAE	106.1 dB	
EA	4.569 mPa ² h	
LZpeak (max)	2019-06-13 14:11:42	130.7 dB
LASmax	2019-06-13 14:11:42	102.2 dB
LASmin	2019-06-13 14:02:14	59.5 dB
SEA	141.5 dB	
LAS > 65.0 dB (Exceedance Counts / Duration)	7	821.0 s
LAS > 85.0 dB (Exceedance Counts / Duration)	3	9.2 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	76.6	76.6	76.6	76.6
LCeq	86.5 dB			
LAeq	76.6 dB			
LCeq - LAeq	9.9 dB			
LAlaq	83.9 dB			
LAeq	76.6 dB			
LAlaq - LAeq	7.3 dB			

Leq
 LS(max)
 LF(max)
 LI(max)
 LS(min)
 LF(min)
 LI(min)
 LPeak(max)

A	
dB	Time Stamp
76.6	
102.2	2019/06/13 14:11:42
108.3	2019/06/13 14:11:42
110.9	2019/06/13 14:11:42
59.5	2019/06/13 14:02:14
59.0	2019/06/13 14:02:14
59.3	2019/06/13 14:02:14
128.5	2019/06/13 14:11:42

Overloads

0

Overload Duration

0.0 s

Statistics

LAS5.00	78.9 dB
LAS10.00	77.1 dB
LAS33.30	72.9 dB
LAS50.00	70.6 dB
LAS66.60	68.2 dB
LAS90.00	63.8 dB

