APPENDIX F
Noise Analysis

Site Number: Yorba Linda HOFF Site # 1	
Recorded By: Pierre Glaize	
Job Number: 180967	
Date: 11/05/2020	
Time: 10:06 a.m.	
Location: Adjacent to the Yorba Linda Water District Pump Stationand 3725 Fairmont Boulevard.	
Source of Peak Noise: Traffic along Fairmont Boulevard and Pump Station. Peak noise from wind typing noise meter over.	

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
58.5	92.4	49.9	127.3

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:** Partly Cloudy
	Note: dBA Offset = 0.00		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	6 mph	91°	30.02

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		11/05/2020 10:05:53
End Time:		11/05/2020 10:15:53
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.16

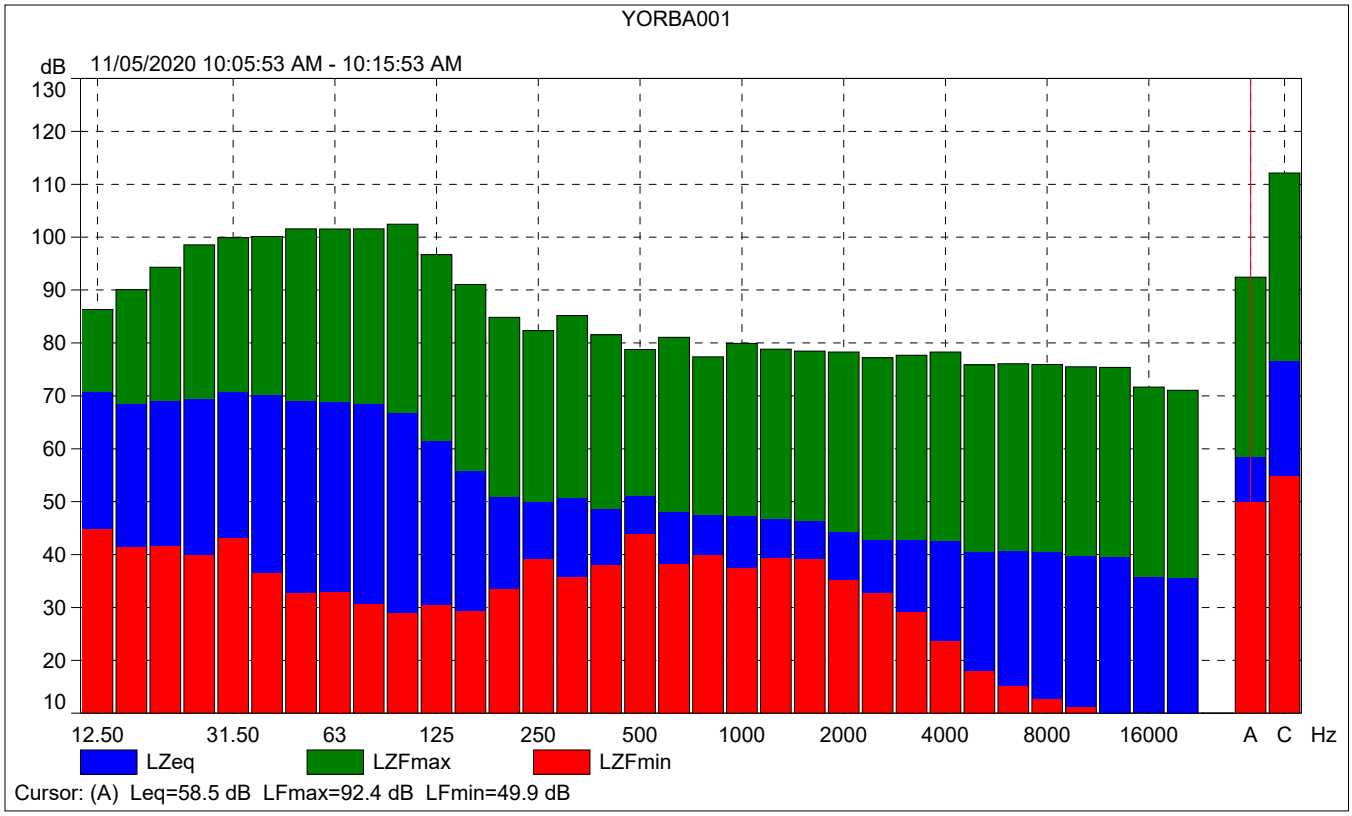
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

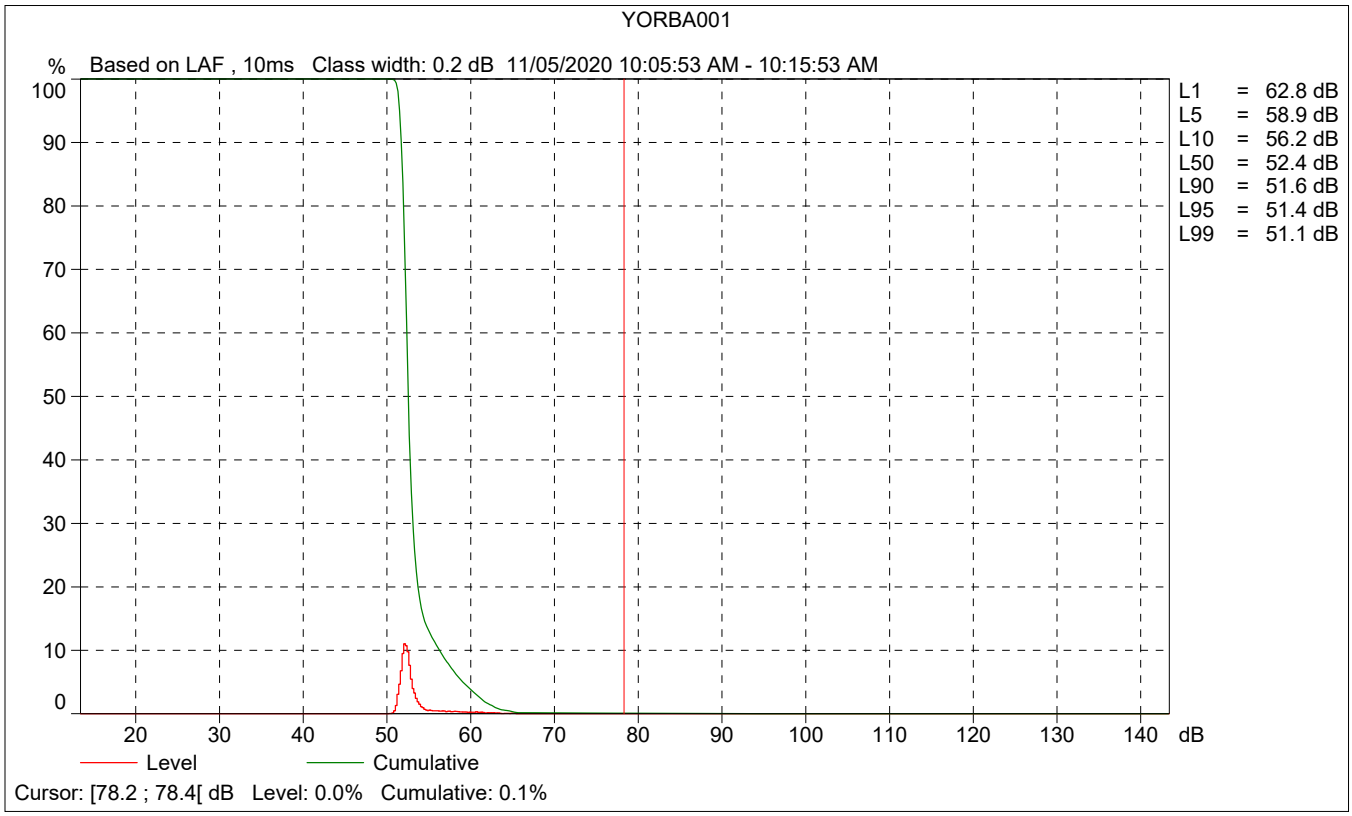
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

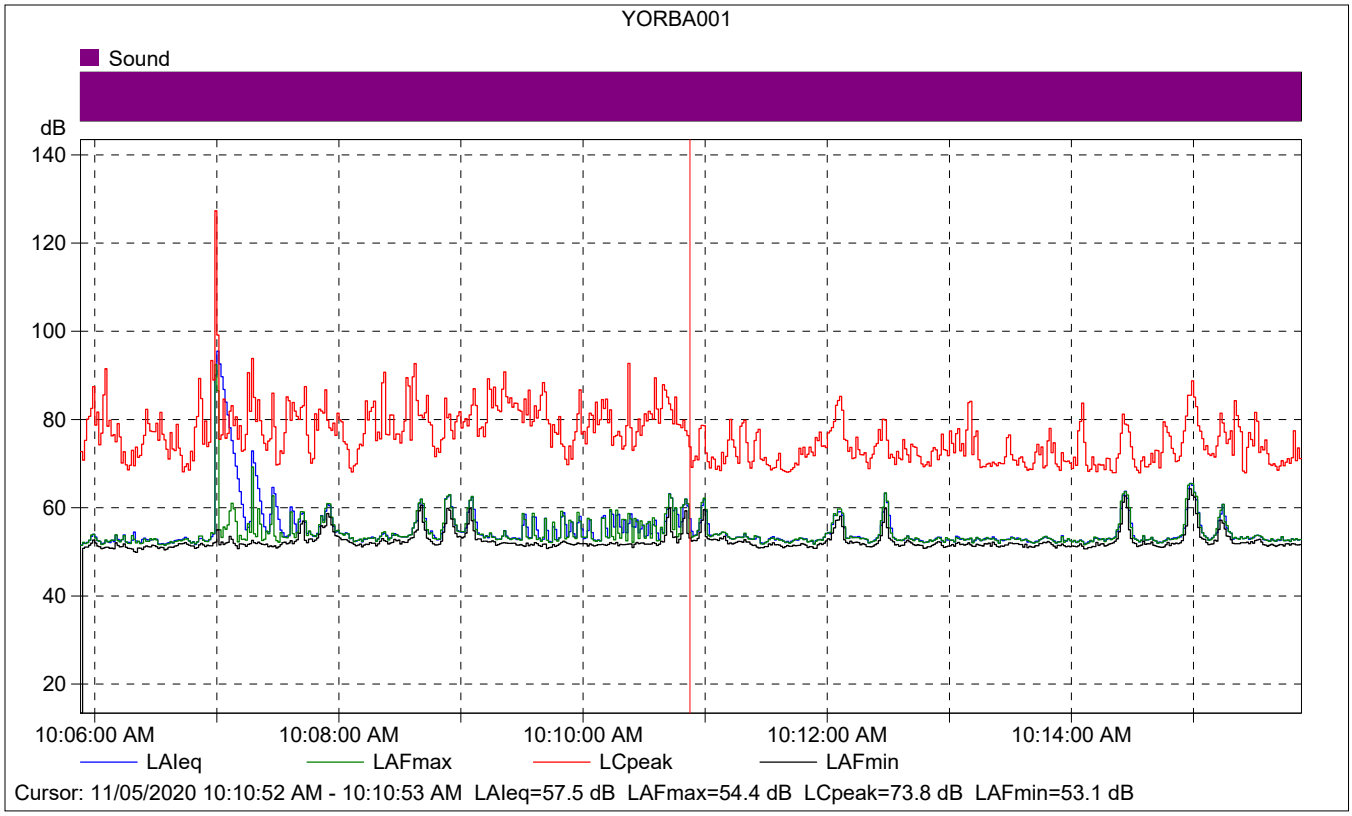
Calibration Time:		11/05/2020 08:32:03
Calibration Type:		External reference
Sensitivity:		43.4190183877945 mV/Pa

YORBA001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	58.5	92.4	49.9
Time	10:05:53 AM	10:15:53 AM	0:10:00				
Date	11/05/2020	11/05/2020					

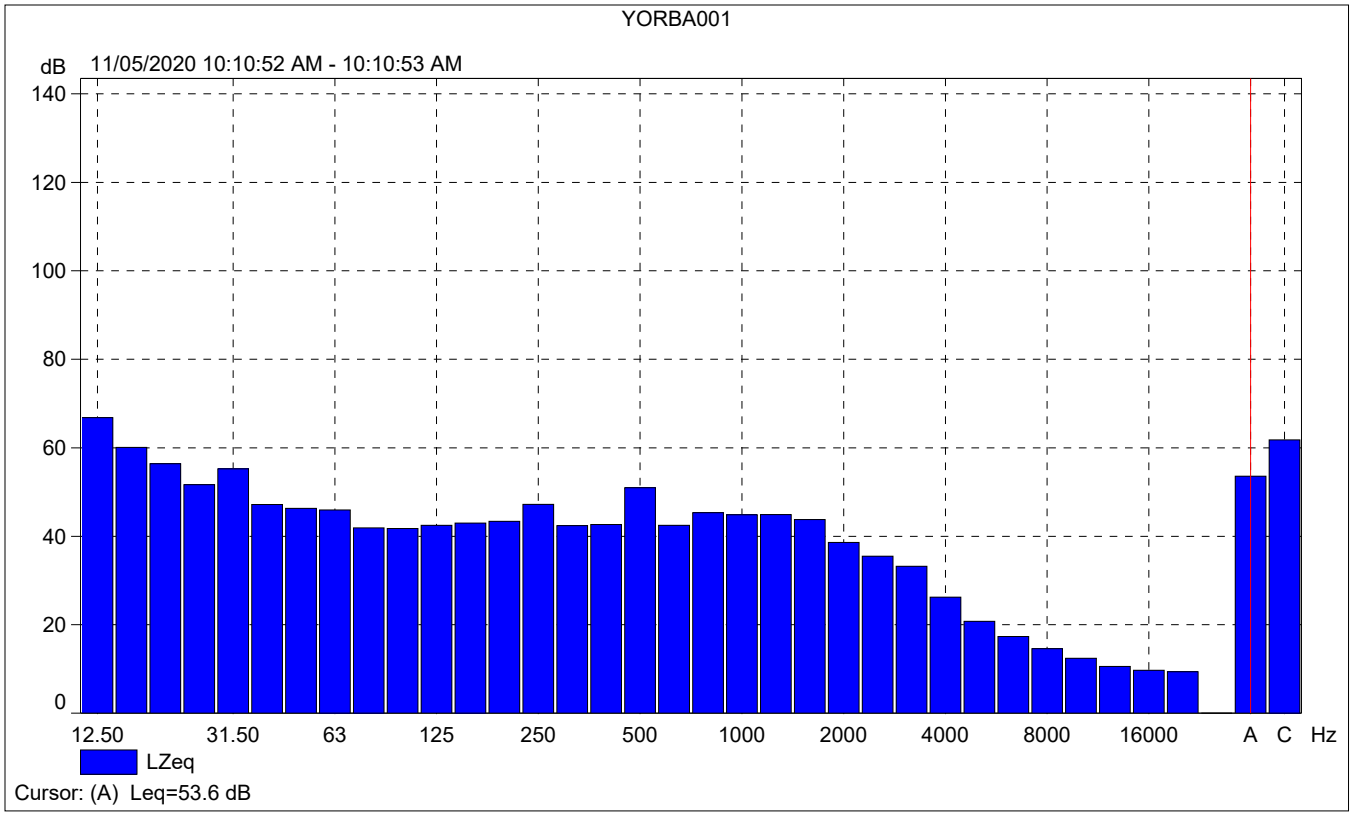

YORBA001
dB
11/05/2020 10:05:53 AM - 10:15:53 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=58.5 dB LFmax=92.4 dB LFmin=49.9 dB

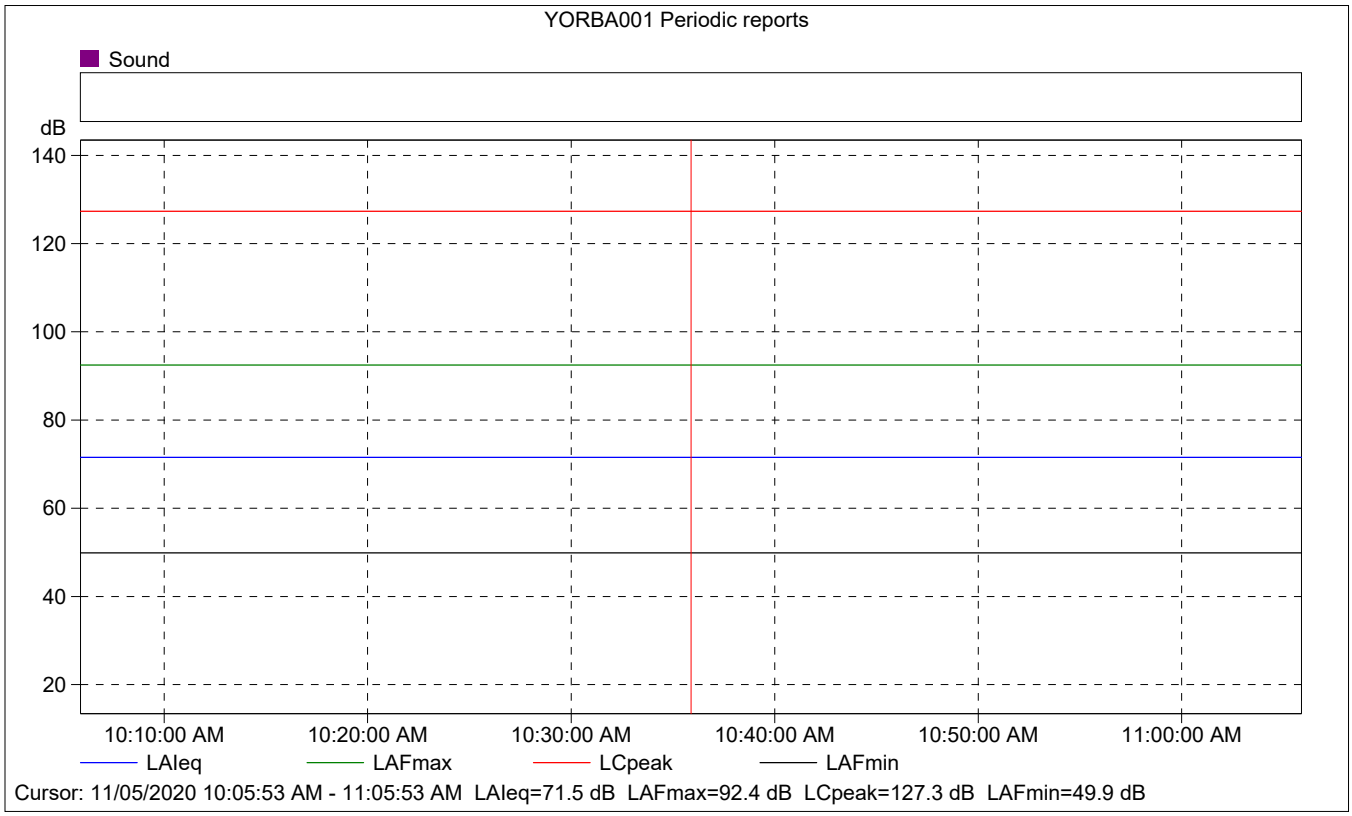

YORBA001
%
Based on LAF , 10ms Class width: 0.2 dB 11/05/2020 10:05:53 AM - 10:15:53 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 62.8 dB
L5 = 58.9 dB
L10 = 56.2 dB
L50 = 52.4 dB
L90 = 51.6 dB
L95 = 51.4 dB
L99 = 51.1 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.1%



YORBA001

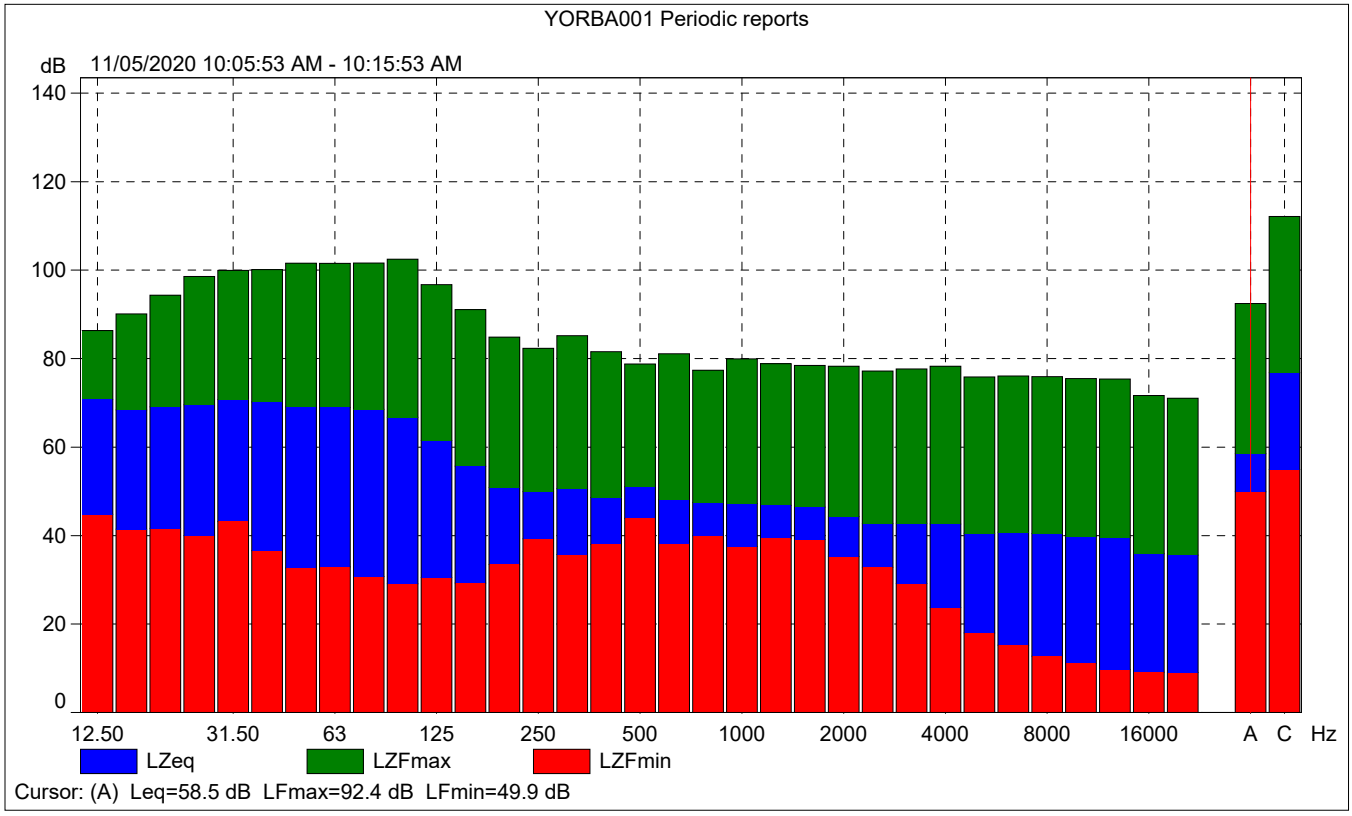
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			57.5	54.4	53.1
Time	10:10:52 AM	0:00:01			
Date	11/05/2020				

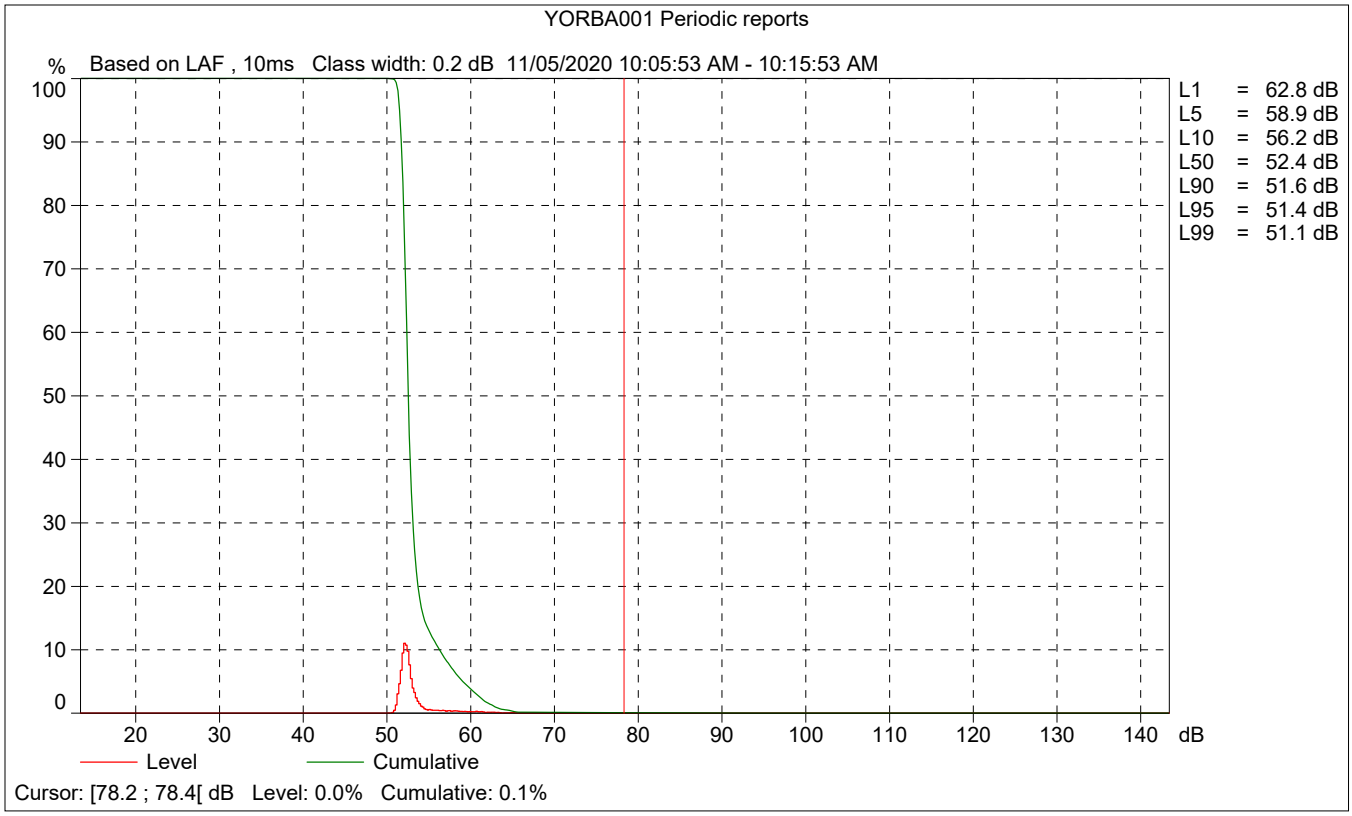

YORBA001
dB
11/05/2020 10:10:52 AM - 10:10:53 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=53.6 dB


YORBA001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:10:00 AM
10:20:00 AM
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 11/05/2020 10:05:53 AM - 11:05:53 AM LAIeq=71.5 dB LAFmax=92.4 dB LCpeak=127.3 dB LAFmin=49.9 dB

YORBA001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	71.5	92.4	49.9
Time	10:05:53 AM	0:10:00				
Date	11/05/2020					




YORBA001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 11/05/2020 10:05:53 AM - 10:15:53 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 = 62.8 dB
L5 = 58.9 dB
L10 = 56.2 dB
L50 = 52.4 dB
L90 = 51.6 dB
L95 = 51.4 dB
L99 = 51.1 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.1%

Site Number: Yorba Linda HOFF Site #2	
Recorded By: Pierre Glaize	
Job Number: 180967	
Date: 11/05/2020	
Time: 10:22 a.m.	
Location: Little Canyon Lane Cul-de-sac, by the proposed project driveway.	
Source of Peak Noise: Airplane above, palm trees rustling, and traffic along Fairmount Boulevard.	

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
48.8	67.3	36.5	96.7

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
	Note: dBA Offset =		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	6 mph	91°	30.02

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		11/05/2020 10:21:45
End Time:		11/05/2020 10:31:45
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.16

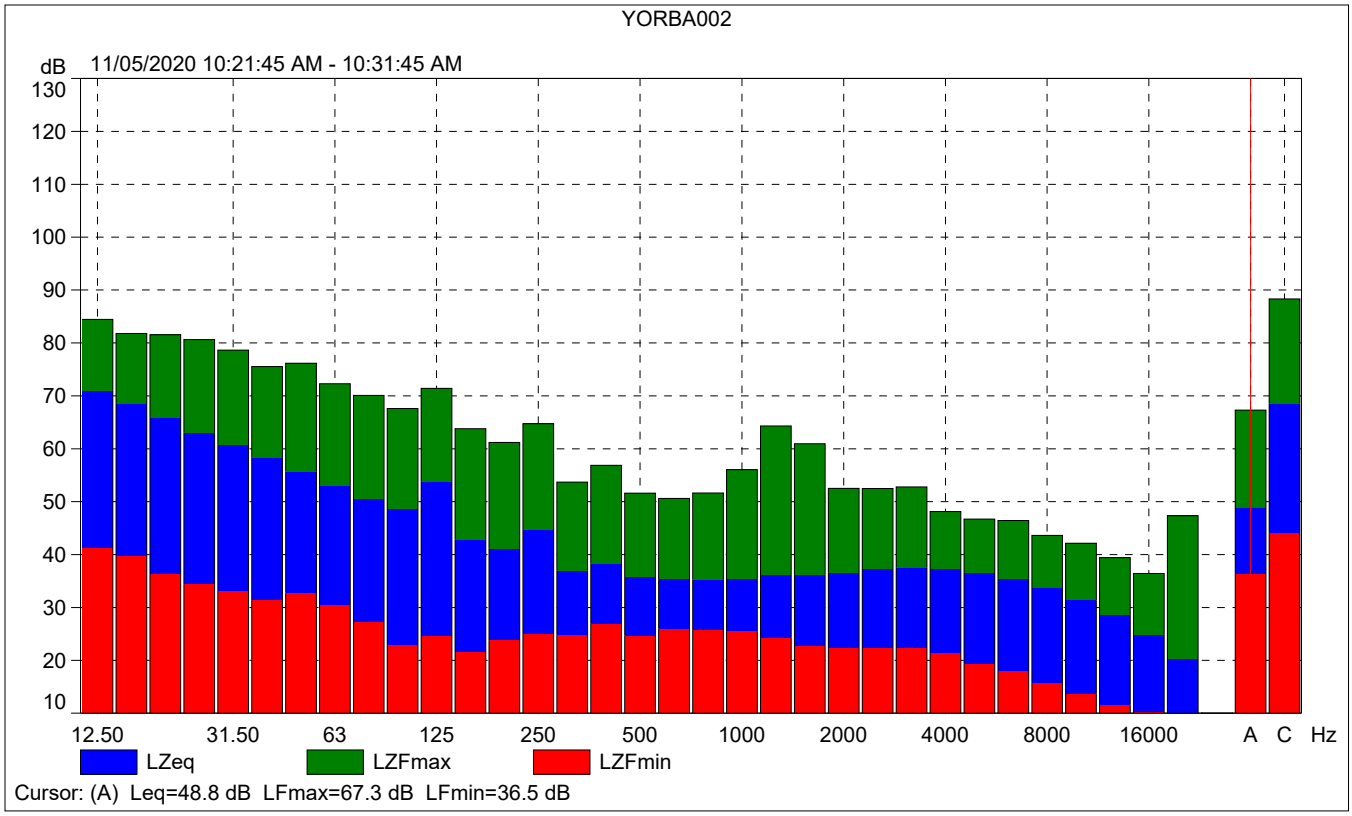
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

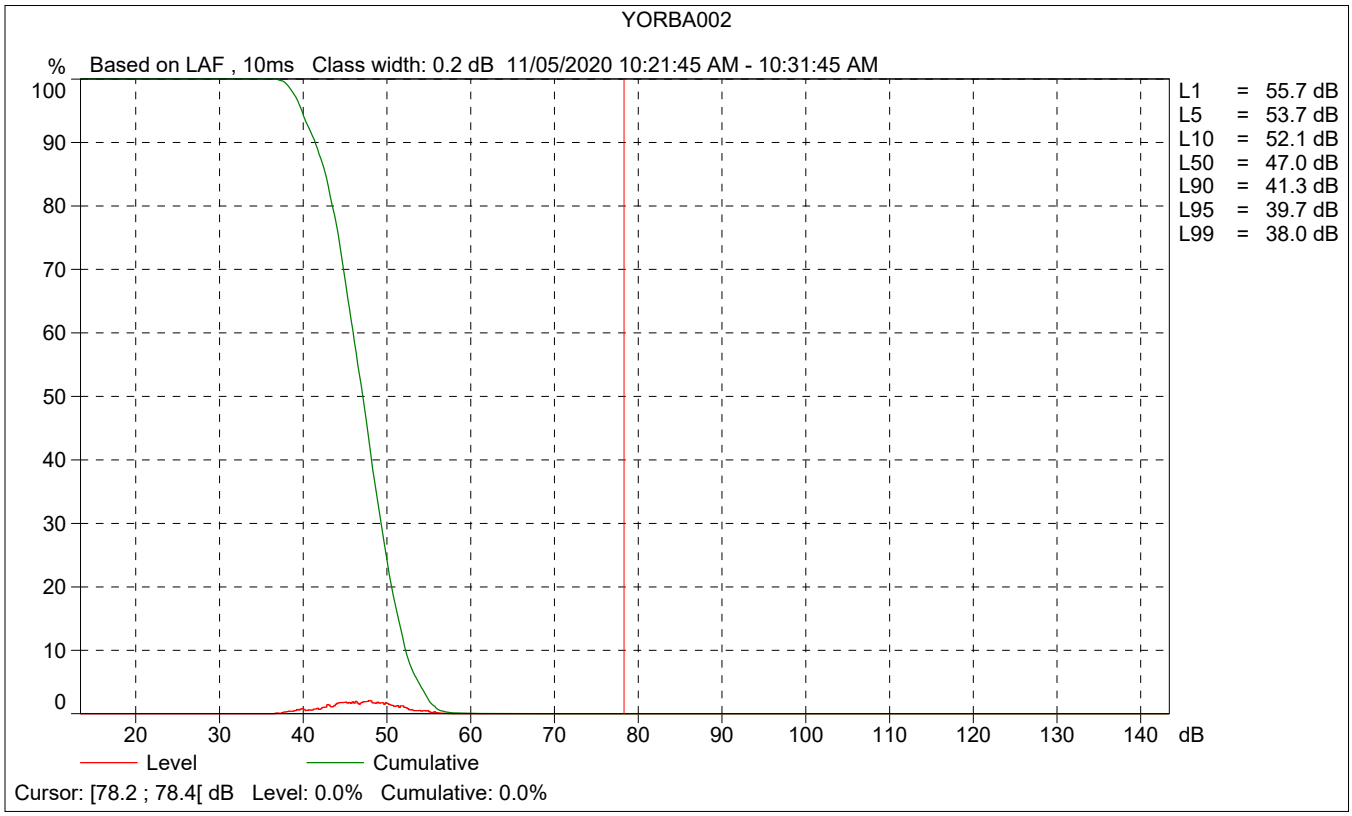
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

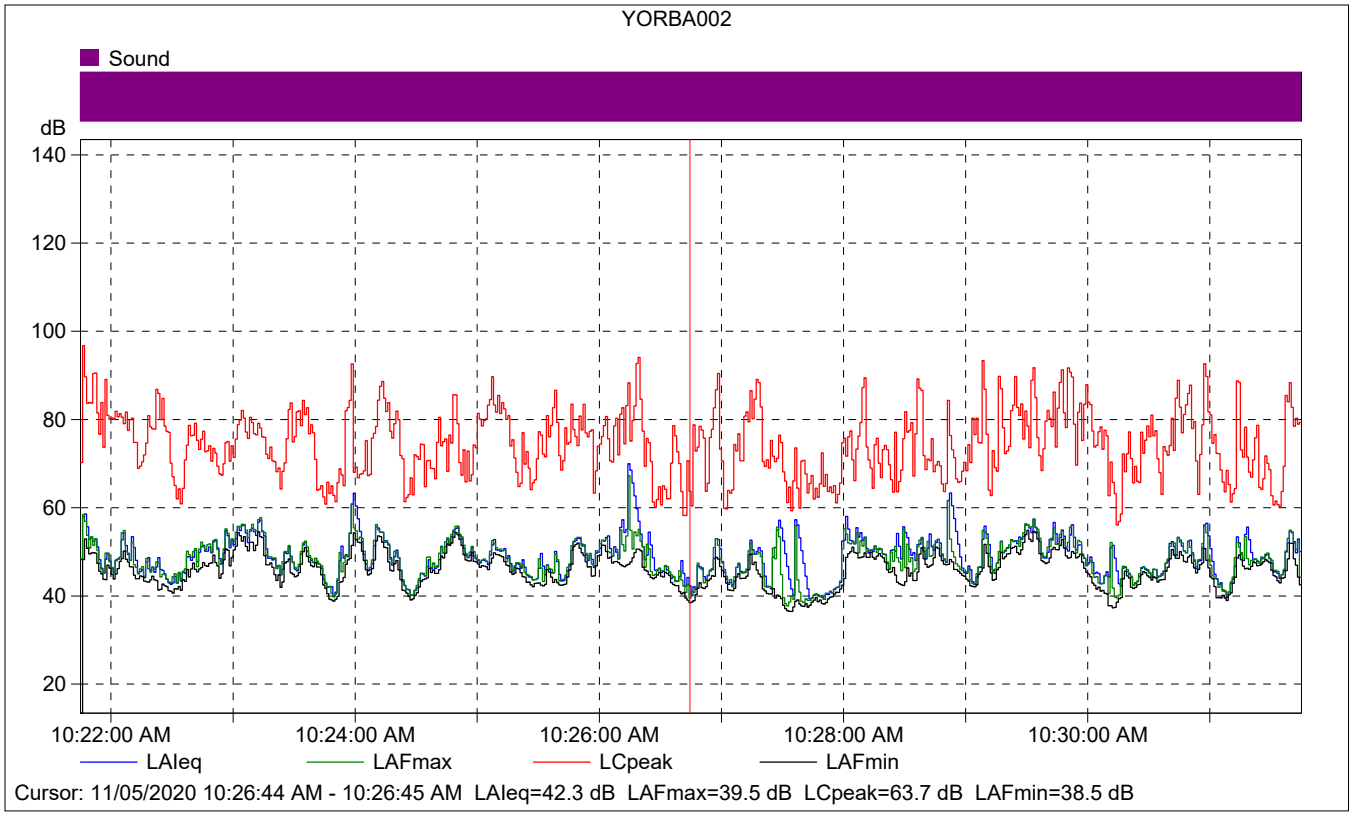
Calibration Time:		11/05/2020 08:32:03
Calibration Type:		External reference
Sensitivity:		43.4190183877945 mV/Pa

YORBA002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	48.8	67.3	36.5
Time	10:21:45 AM	10:31:45 AM	0:10:00				
Date	11/05/2020	11/05/2020					

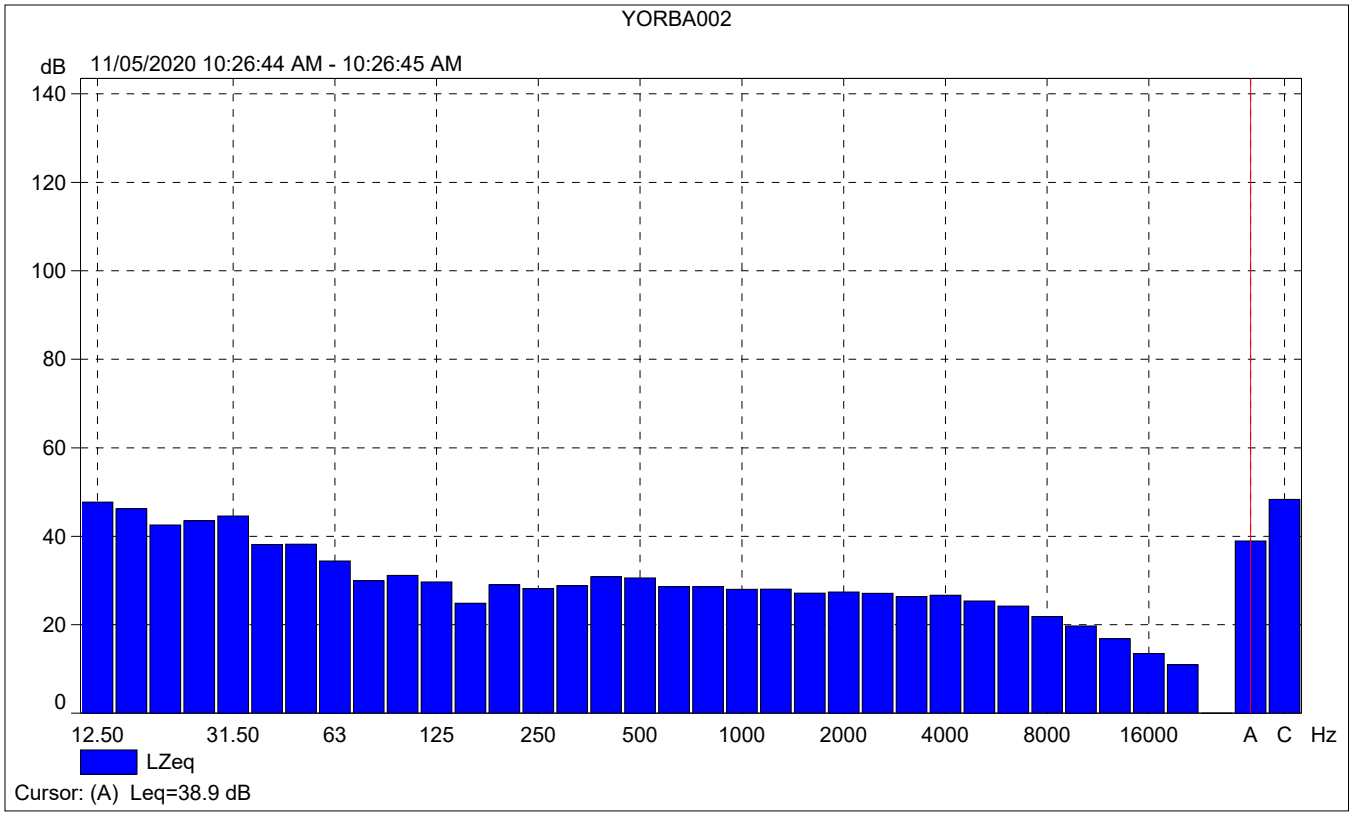

YORBA002
dB
11/05/2020 10:21:45 AM - 10:31:45 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=48.8 dB LFmax=67.3 dB LFmin=36.5 dB

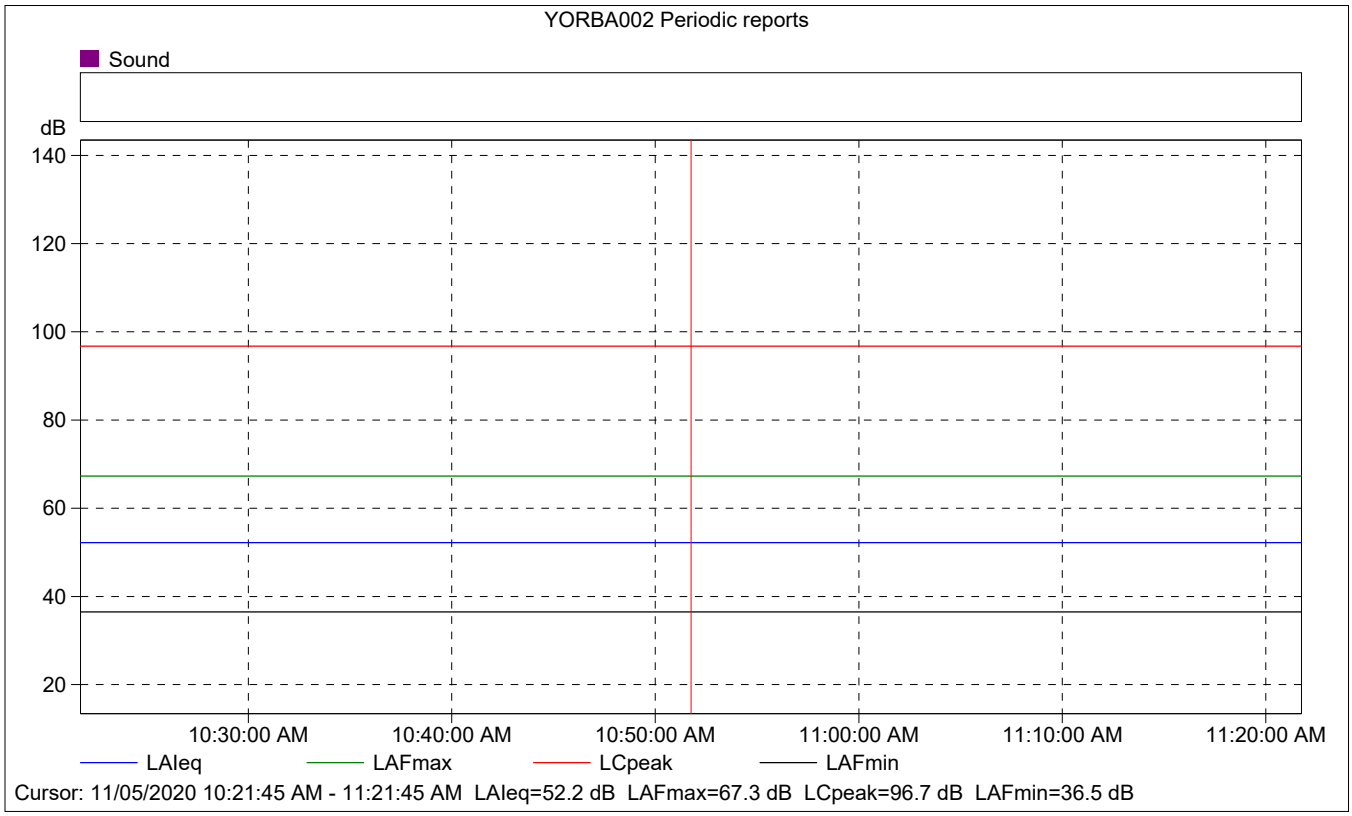

YORBA002
%
Based on LAF , 10ms Class width: 0.2 dB 11/05/2020 10:21:45 AM - 10:31:45 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 55.7 dB
L5 = 53.7 dB
L10 = 52.1 dB
L50 = 47.0 dB
L90 = 41.3 dB
L95 = 39.7 dB
L99 = 38.0 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



YORBA002

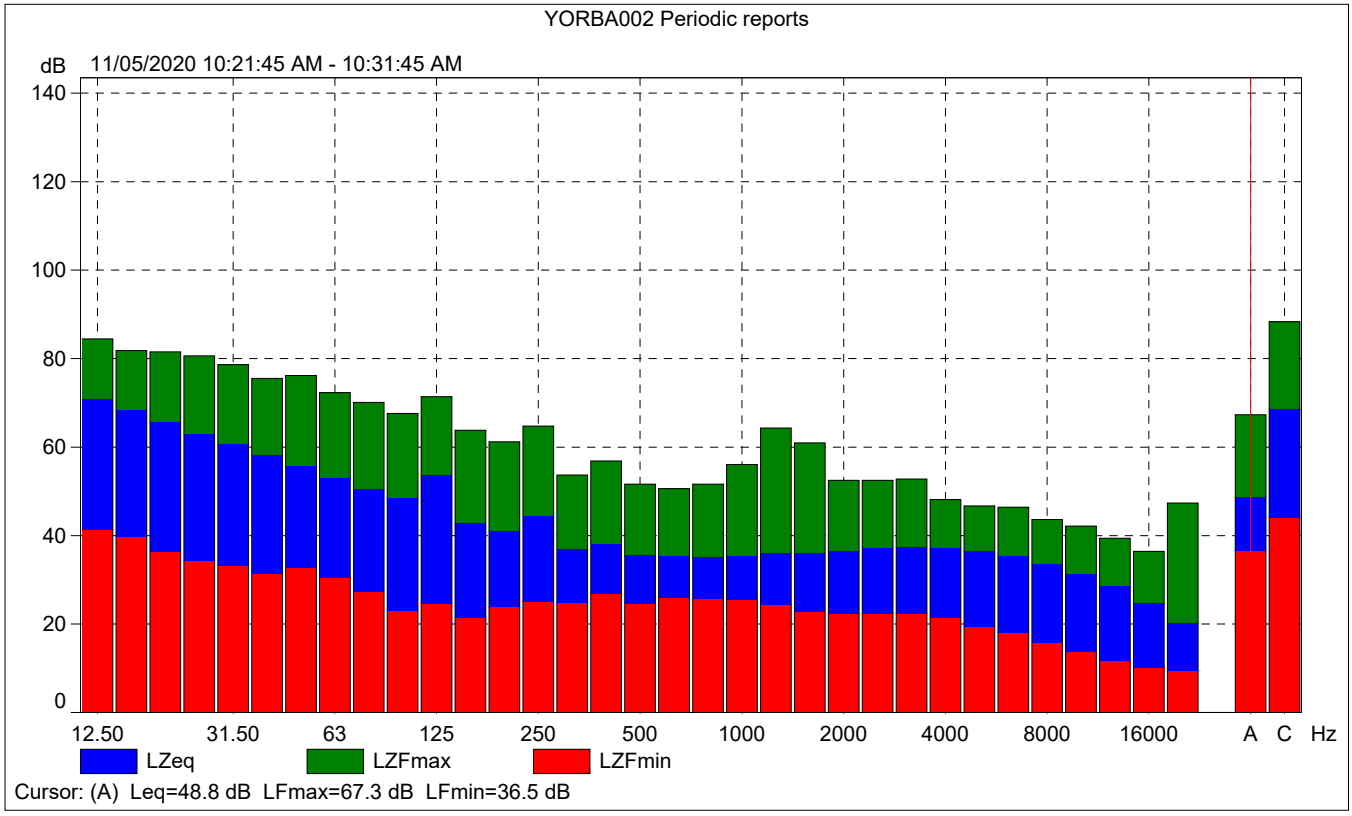
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			42.3	39.5	38.5
Time	10:26:44 AM	0:00:01			
Date	11/05/2020				

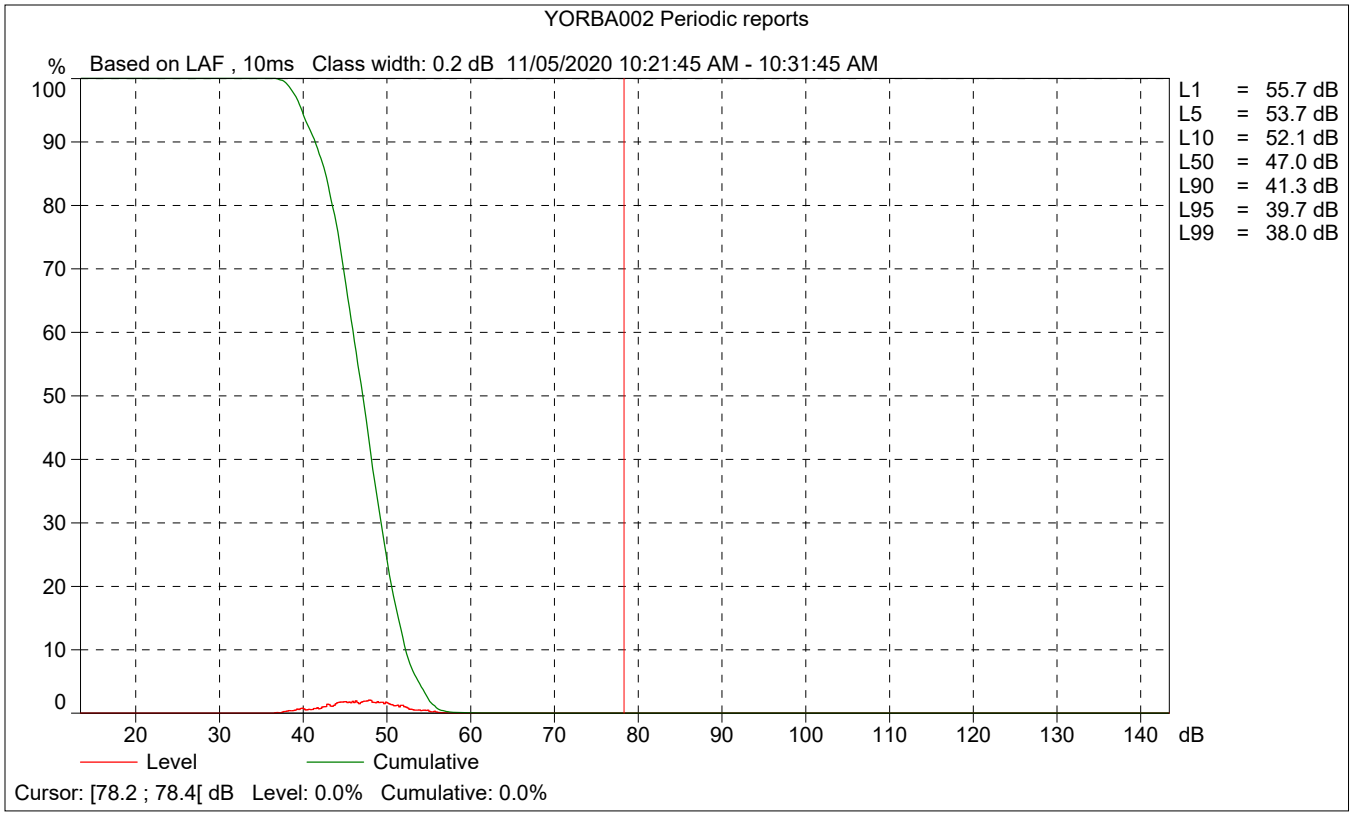

YORBA002
dB
11/05/2020 10:26:44 AM - 10:26:45 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=38.9 dB


YORBA002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
11:20:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 11/05/2020 10:21:45 AM - 11:21:45 AM LAIeq=52.2 dB LAFmax=67.3 dB LCpeak=96.7 dB LAFmin=36.5 dB

YORBA002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	52.2	67.3	36.5
Time	10:21:45 AM	0:10:00				
Date	11/05/2020					




YORBA002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 11/05/2020 10:21:45 AM - 10:31:45 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
Level
Cumulative
L1 = 55.7 dB
L5 = 53.7 dB
L10 = 52.1 dB
L50 = 47.0 dB
L90 = 41.3 dB
L95 = 39.7 dB
L99 = 38.0 dB
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

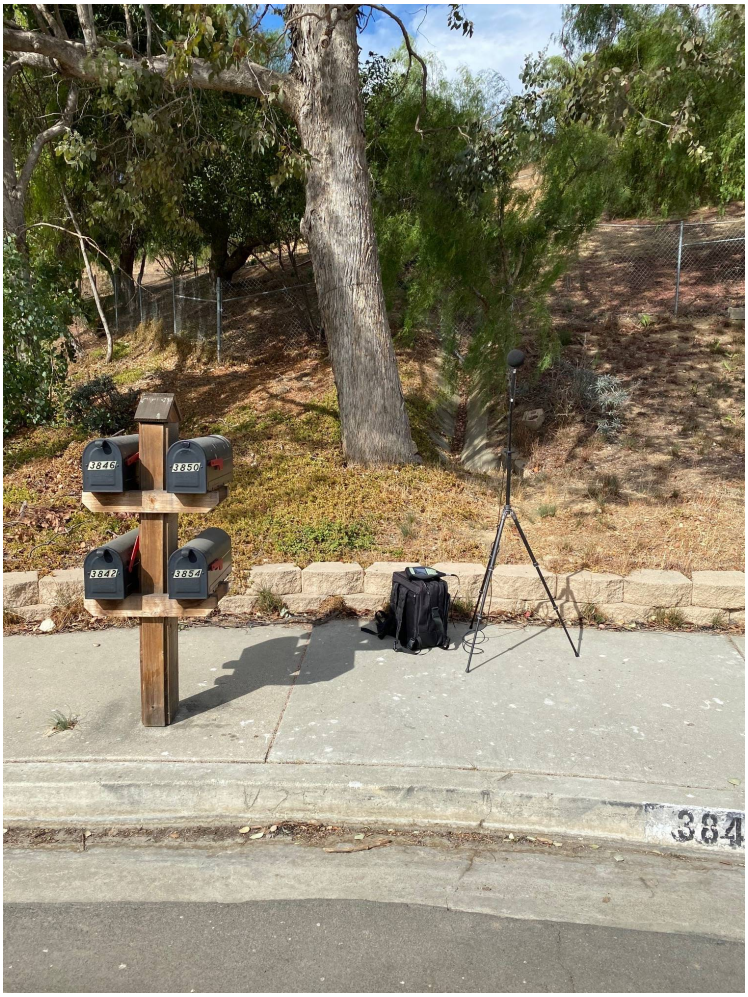
Site Number: Yorba Linda HOFF Site #3	
Recorded By: Pierre Glaize	
Job Number: 180967	
Date: 11/05/2020	
Time: 10:39 a.m.	
Location: Ravenswood Drive Cul-de-sac.	
Source of Peak Noise: Dogs barking and vehicles along Ravenswood Drive.	

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
55.1	73.3	37.7	97.1

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
	Note: dBA Offset = 0.00		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	6 mph	93°	30.01

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		11/05/2020 10:38:20
End Time:		11/05/2020 10:48:20
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.16

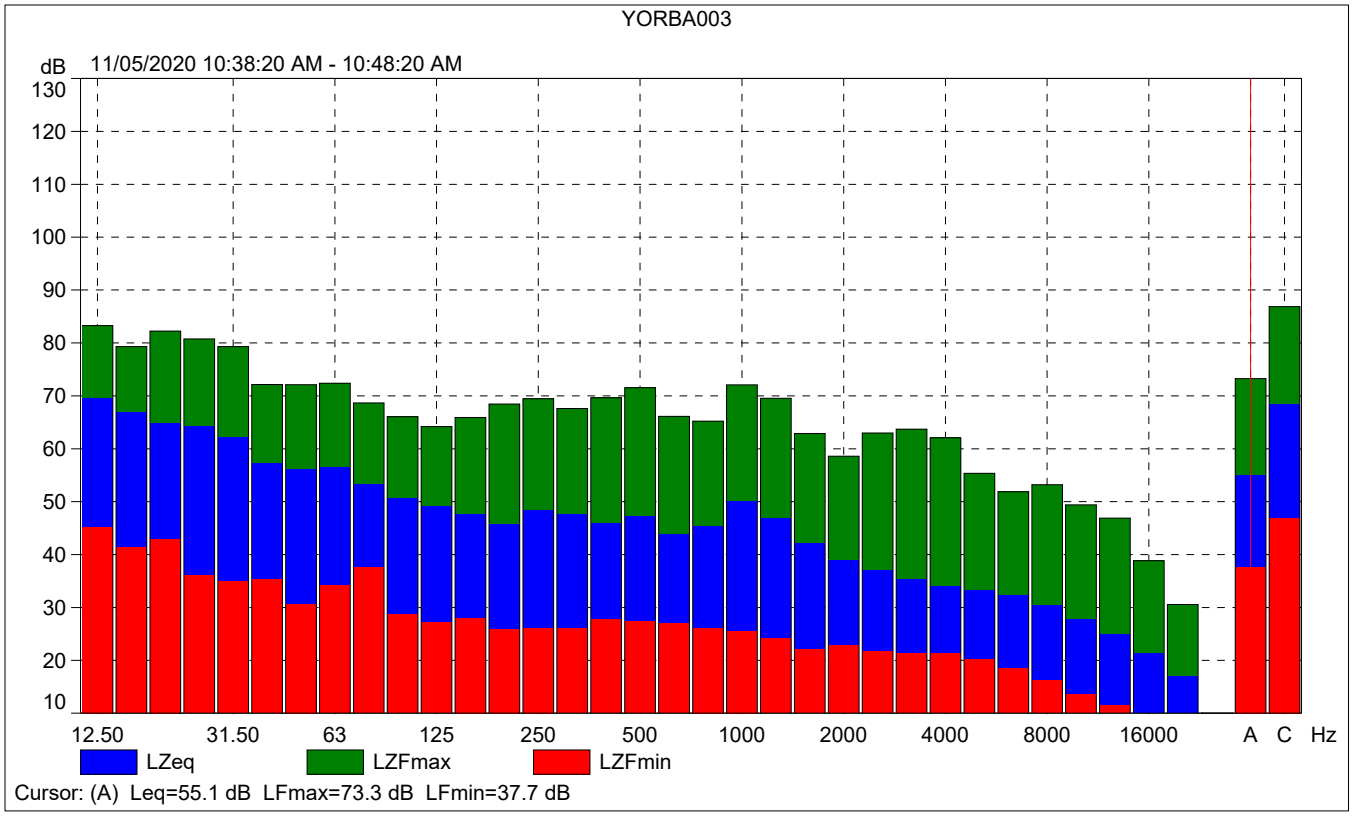
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

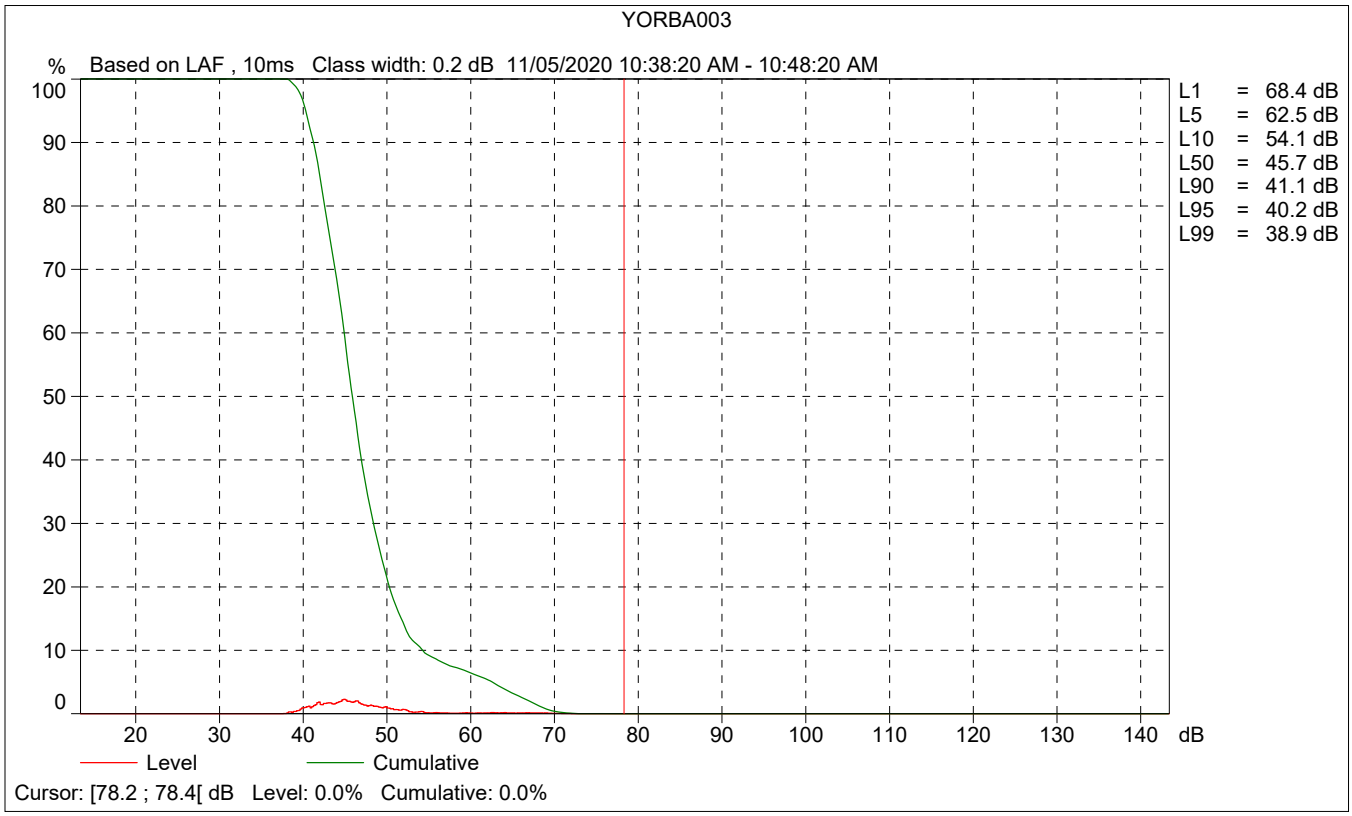
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

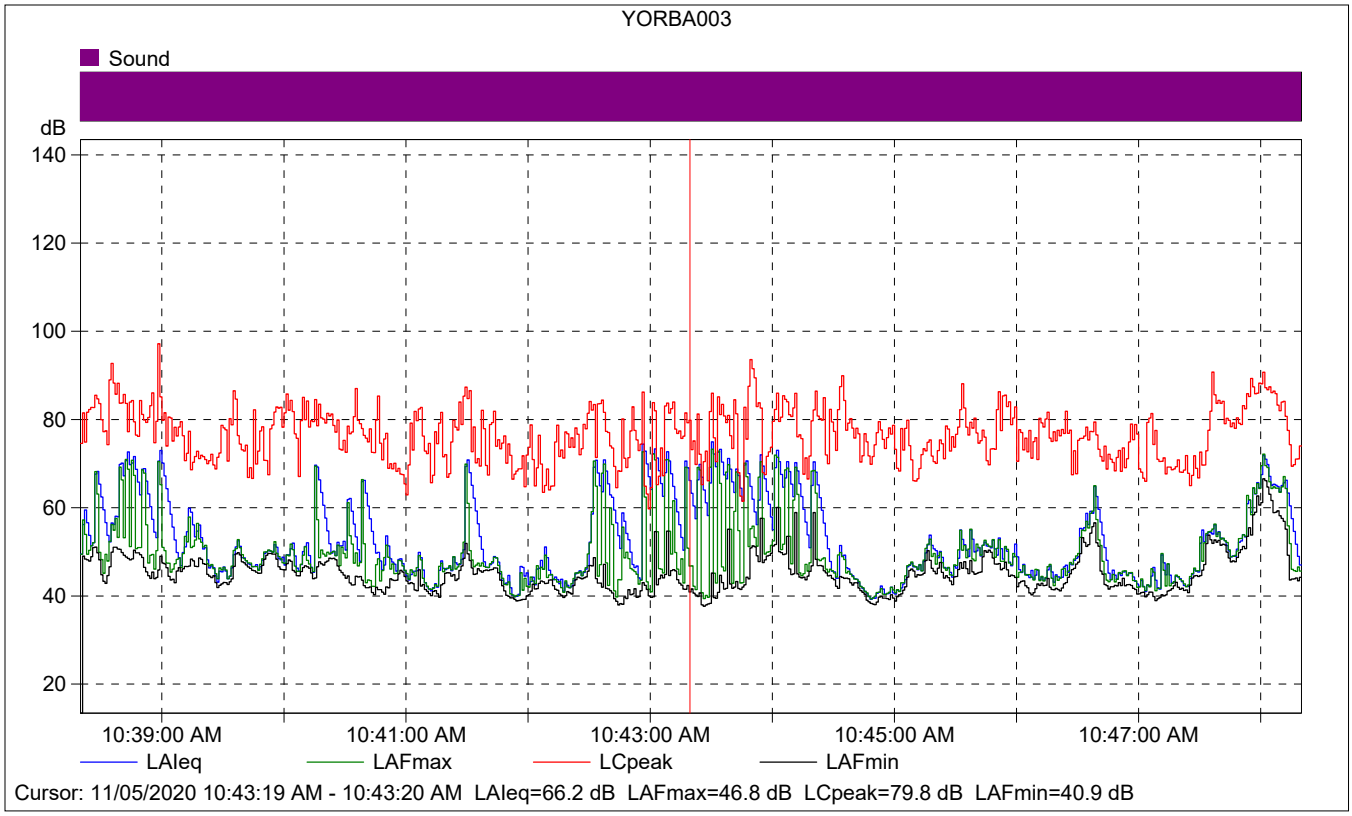
Calibration Time:		11/05/2020 08:32:03
Calibration Type:		External reference
Sensitivity:		43.4190183877945 mV/Pa

YORBA003

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	55.1	73.3	37.7
Time	10:38:20 AM	10:48:20 AM	0:10:00				
Date	11/05/2020	11/05/2020					

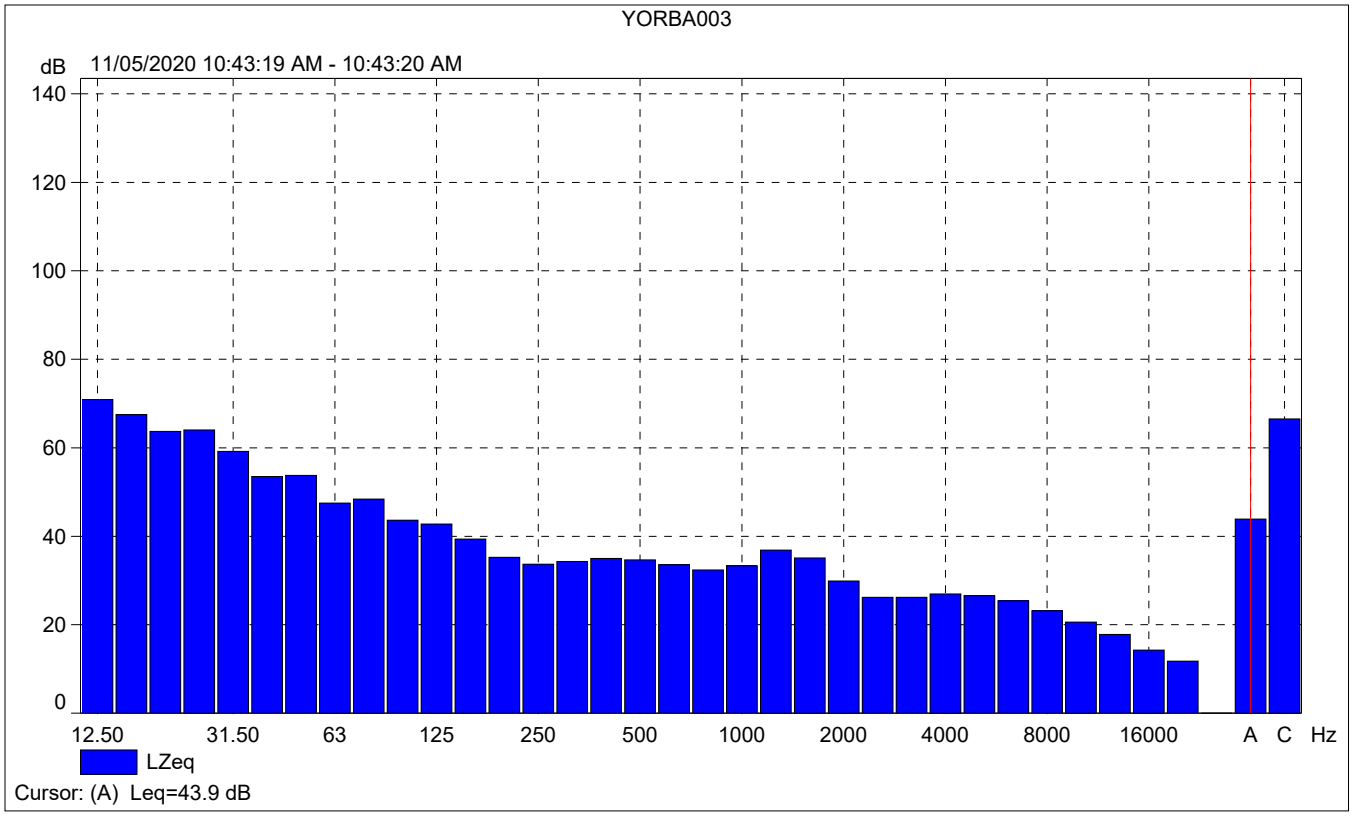

YORBA003
dB
11/05/2020 10:38:20 AM - 10:48:20 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=55.1 dB LFmax=73.3 dB LFmin=37.7 dB

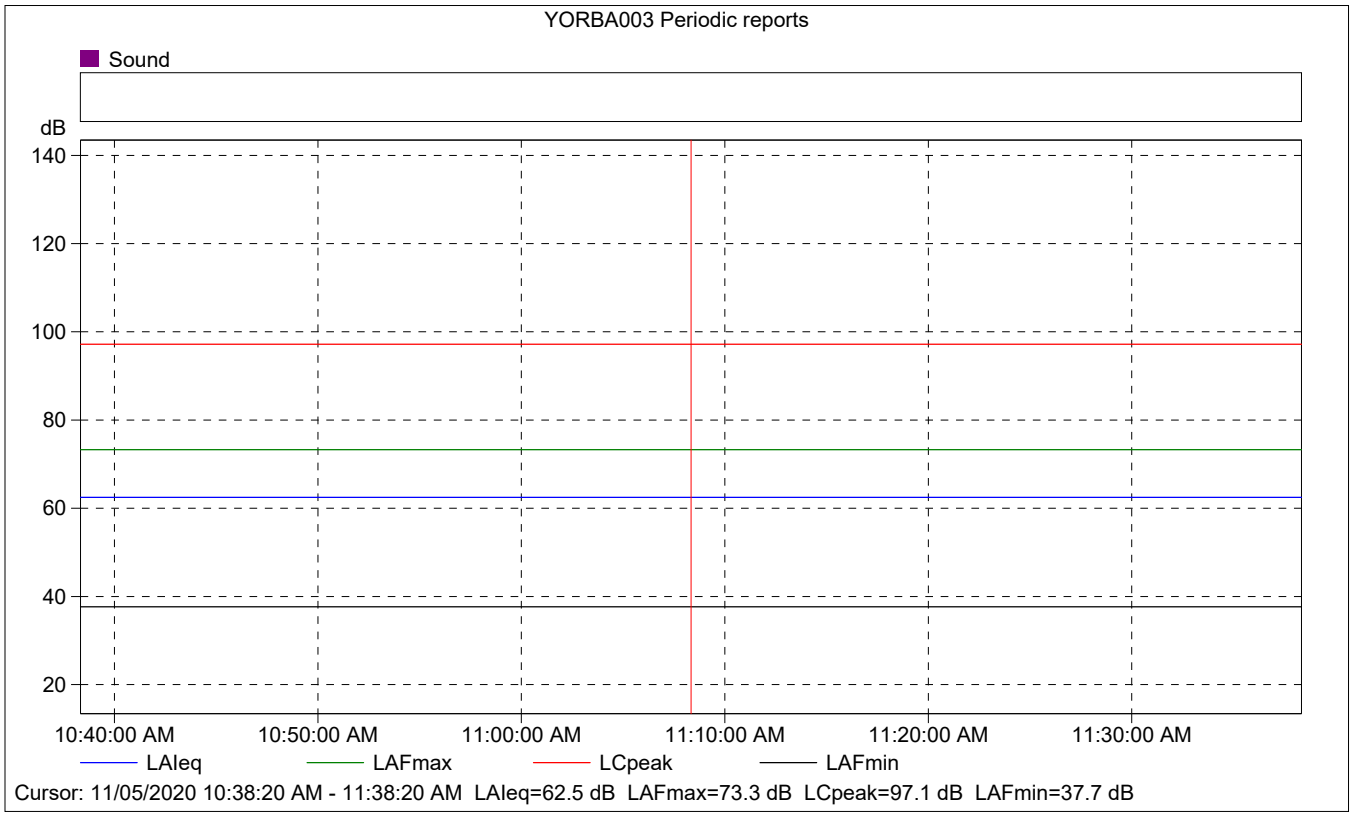

YORBA003
%
Based on LAF , 10ms Class width: 0.2 dB 11/05/2020 10:38:20 AM - 10:48:20 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 68.4 dB
L5 = 62.5 dB
L10 = 54.1 dB
L50 = 45.7 dB
L90 = 41.1 dB
L95 = 40.2 dB
L99 = 38.9 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



YORBA003

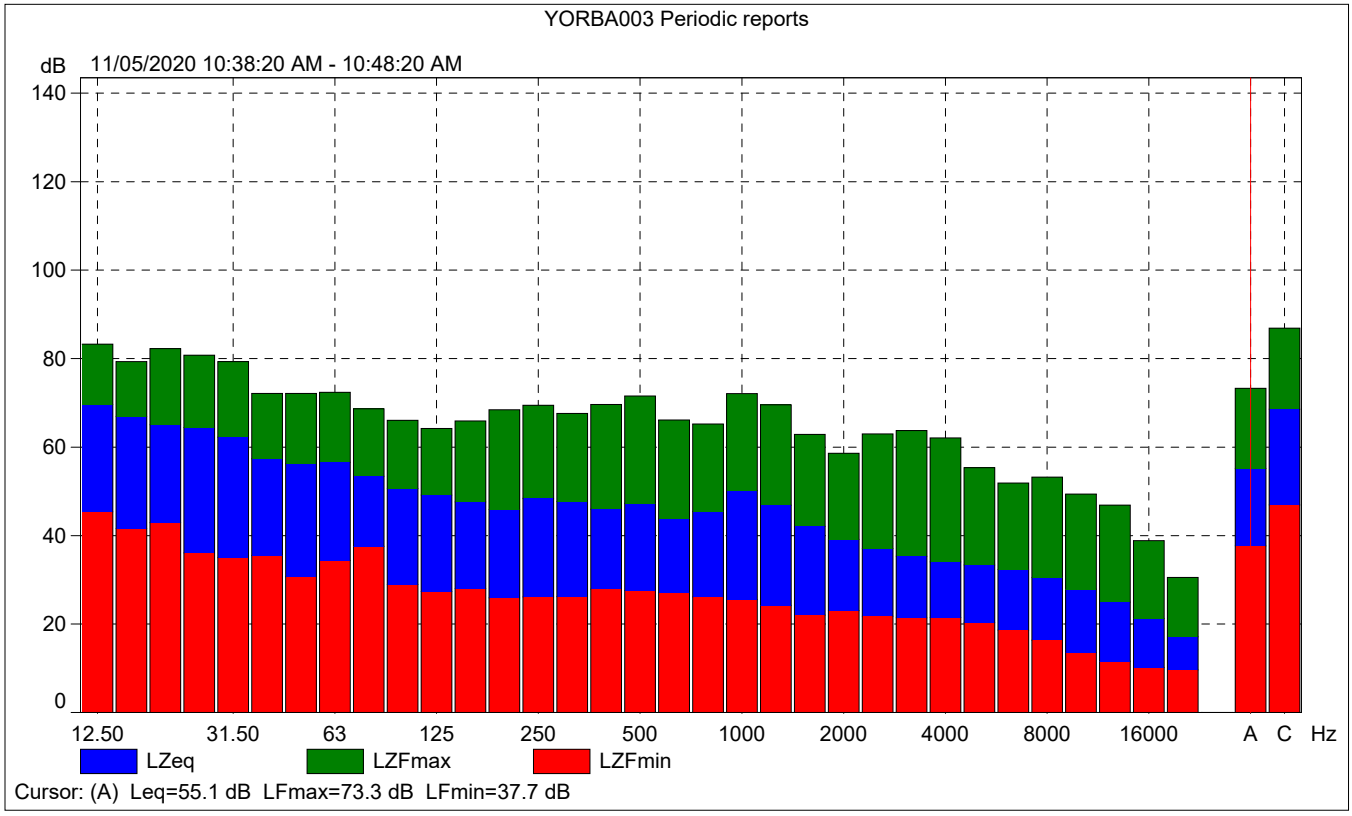
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			66.2	46.8	40.9
Time	10:43:19 AM	0:00:01			
Date	11/05/2020				

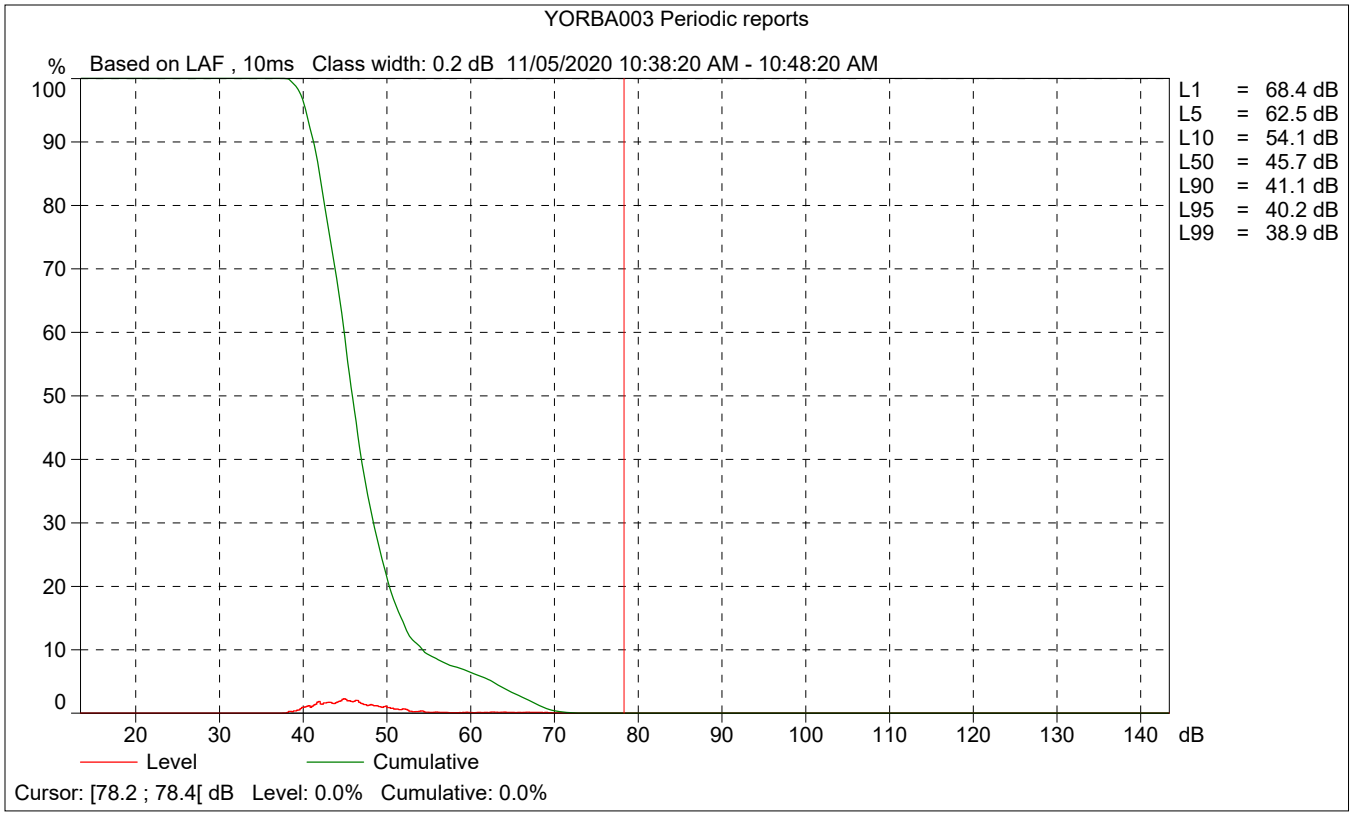

YORBA003
dB
11/05/2020 10:43:19 AM - 10:43:20 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=43.9 dB


YORBA003 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: 11/05/2020 10:38:20 AM - 11:38:20 AM LAIeq=62.5 dB LAFmax=73.3 dB LCpeak=97.1 dB LAFmin=37.7 dB

YORBA003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	62.5	73.3	37.7
Time	10:38:20 AM	0:10:00				
Date	11/05/2020					




YORBA003 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 11/05/2020 10:38:20 AM - 10:48:20 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 = 68.4 dB
L5 = 62.5 dB
L10 = 54.1 dB
L50 = 45.7 dB
L90 = 41.1 dB
L95 = 40.2 dB
L99 = 38.9 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%