



APPENDIX 11.5

Noise Data

Site Number: University of California Riverside Site #1			
Recorded By: Brian Allee & Michelle Dunn			
Job Number: 10106183			
Date: 7/01/08			
Time: 11:43 AM			
Location: Site 1 (Central Steam Plant)			
GPS:			
Source of Peak Noise: Boiler – deaerators – utility equipment – nearby construction trucks (back up horn) and construction			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
68.1	67.0	74.3	90.8

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/14/2007	
	Microphone	Brüel & Kjær	4189	2543364	11/15/2007	
	Preamp	Brüel & Kjær	ZC 0032	4265	7/18/2006	
	Calibrator	Brüel & Kjær	4231	2545667	7/31/2006	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀		
	Note: dBA Offset = -0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)	Temperature (degrees Fahrenheit)		Barometer Pressure (hPa)		
	3.1	96.5		973.5		

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 2.0.2
Start Time:		07/01/2008 11:42:16
End Time:		07/01/2008 11:52:16
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		140.20

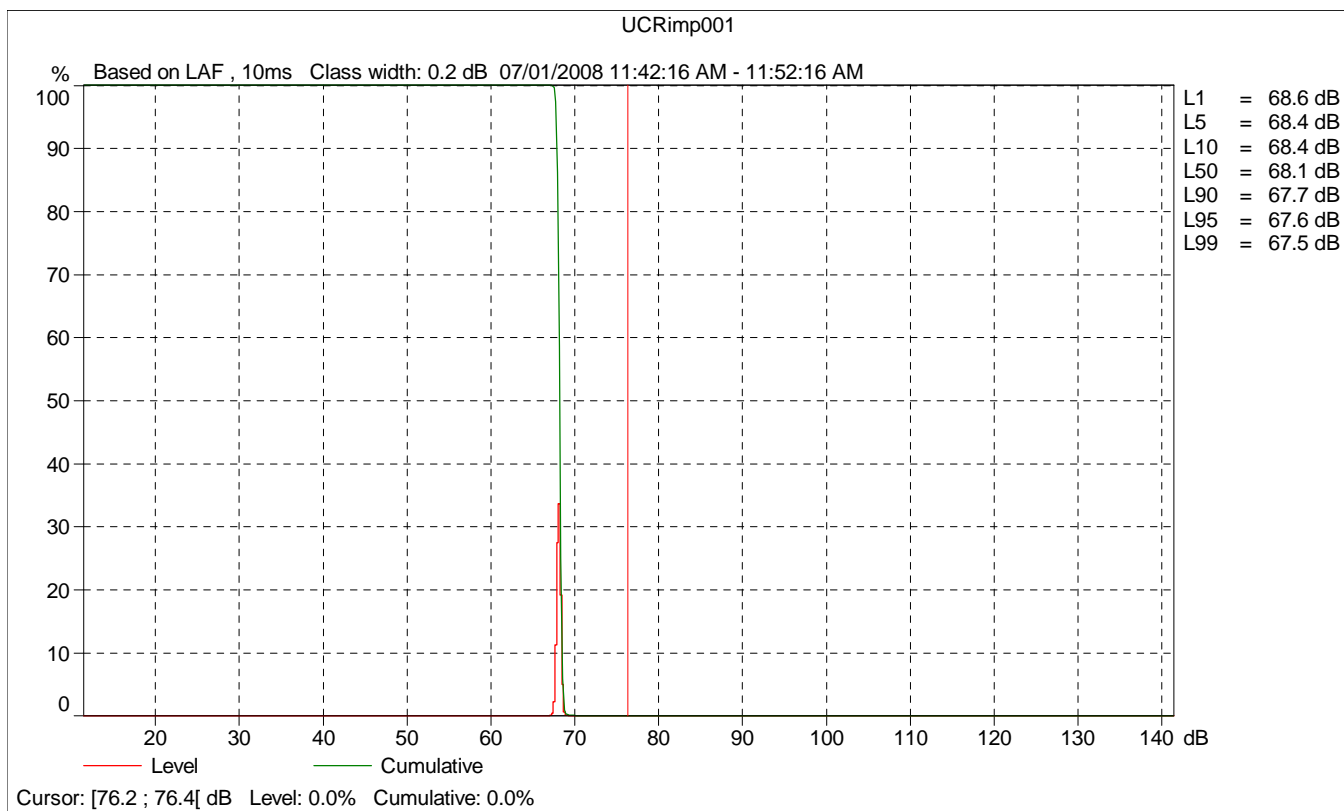
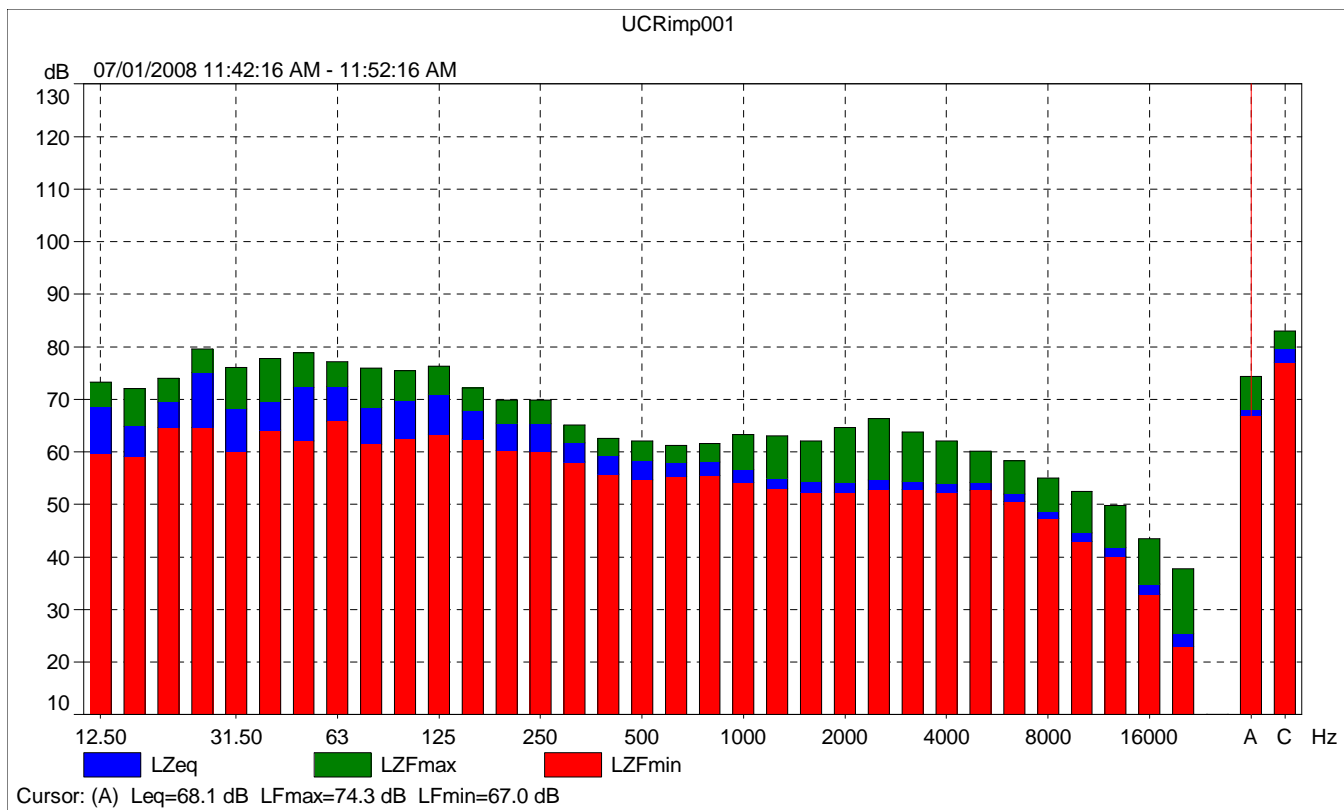
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

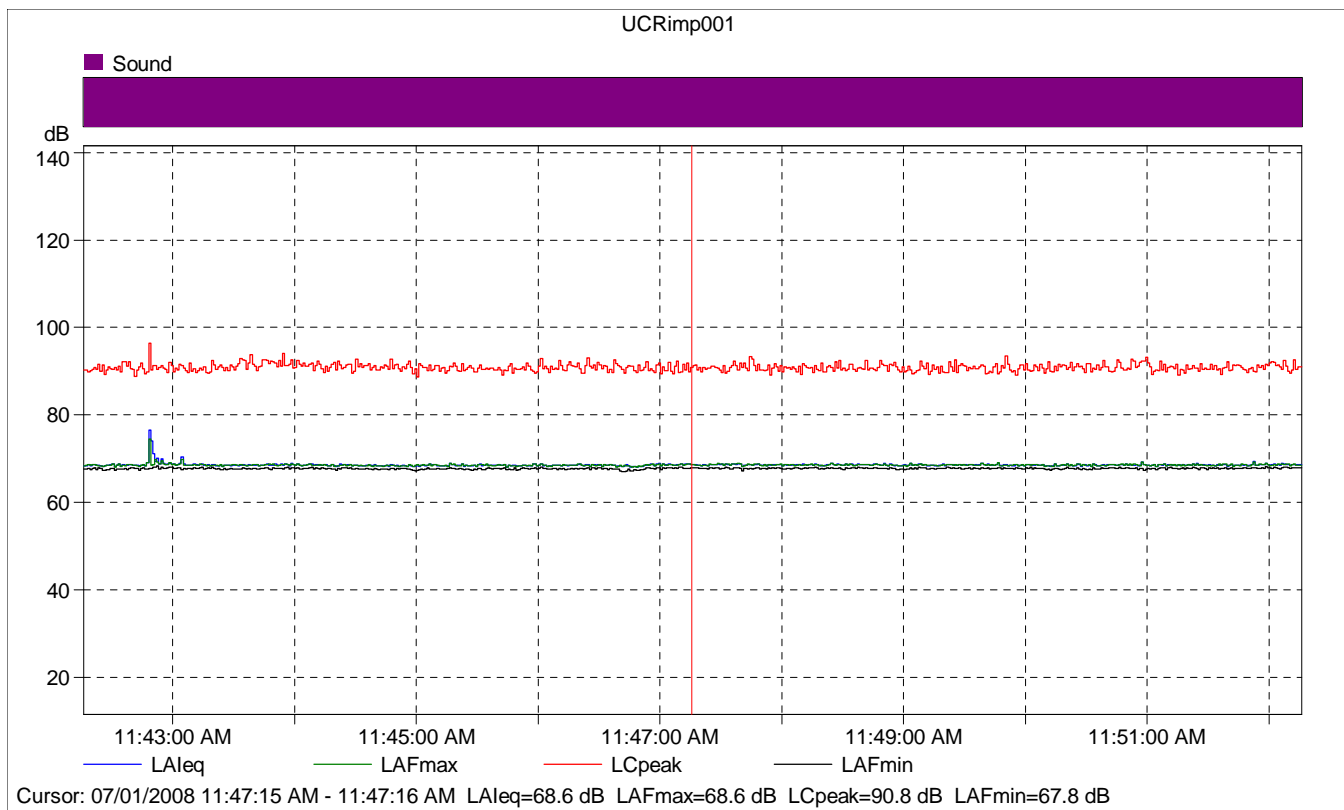
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		07/01/2008 09:32:07
Calibration Type:		External reference
Sensitivity:		54.43 mV/Pa

UCRimp001

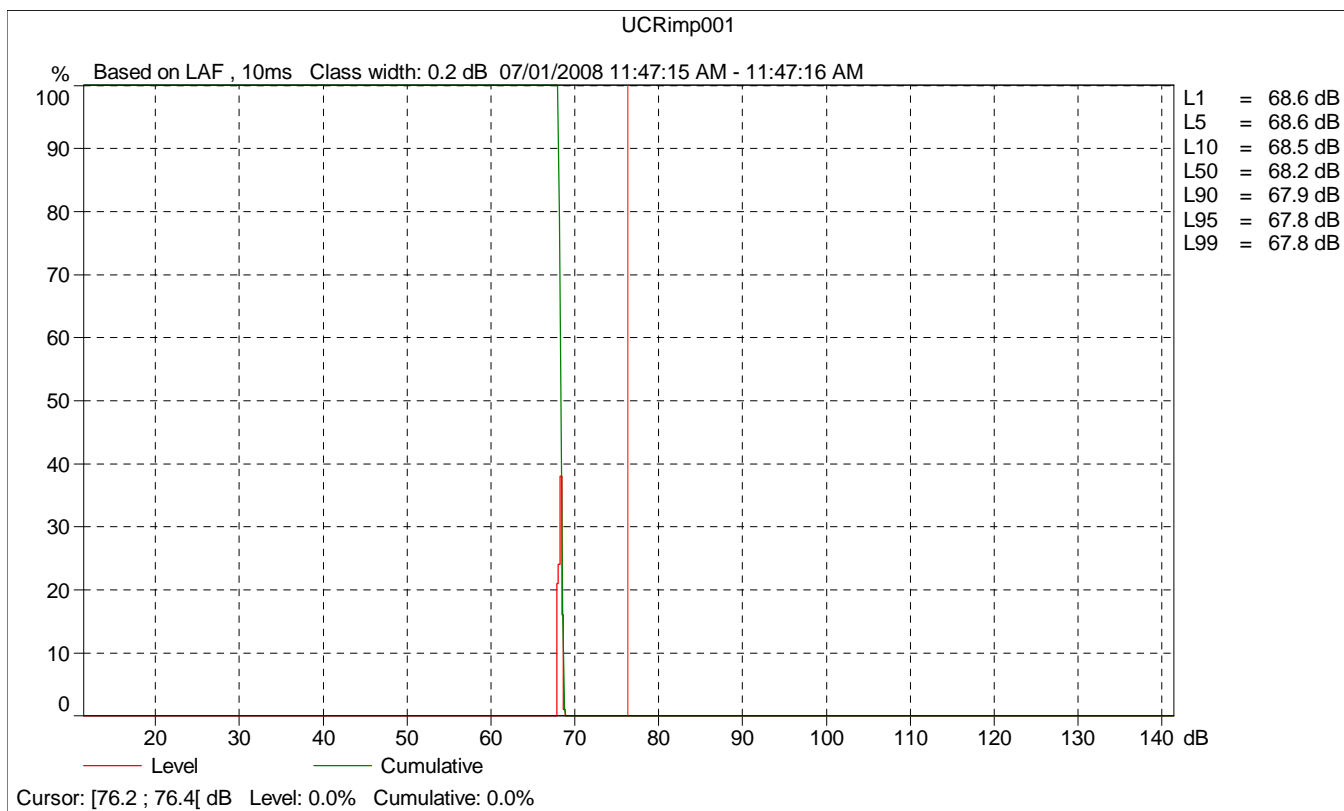
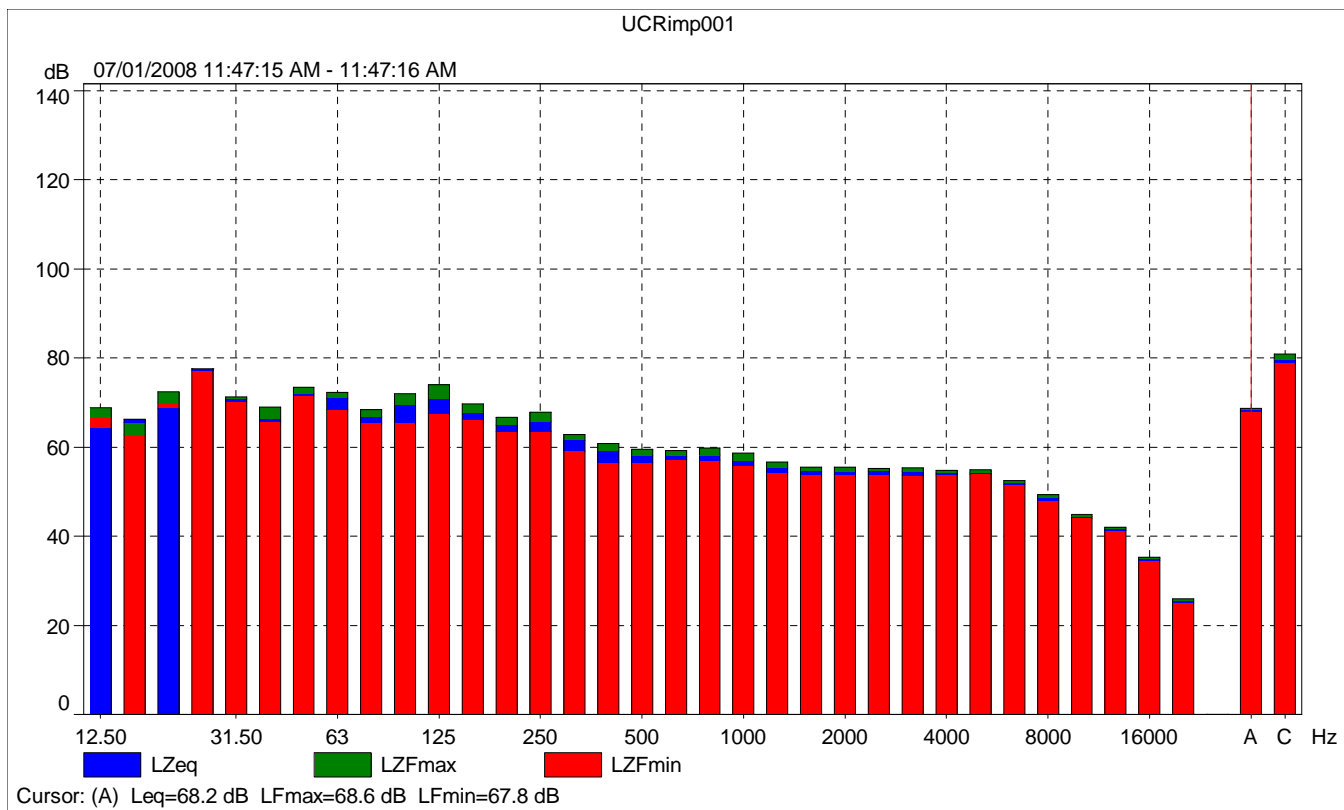
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	68.1	74.3	67.0
Time	11:42:16 AM	11:52:16 AM	0:10:00				
Date	07/01/2008	07/01/2008					

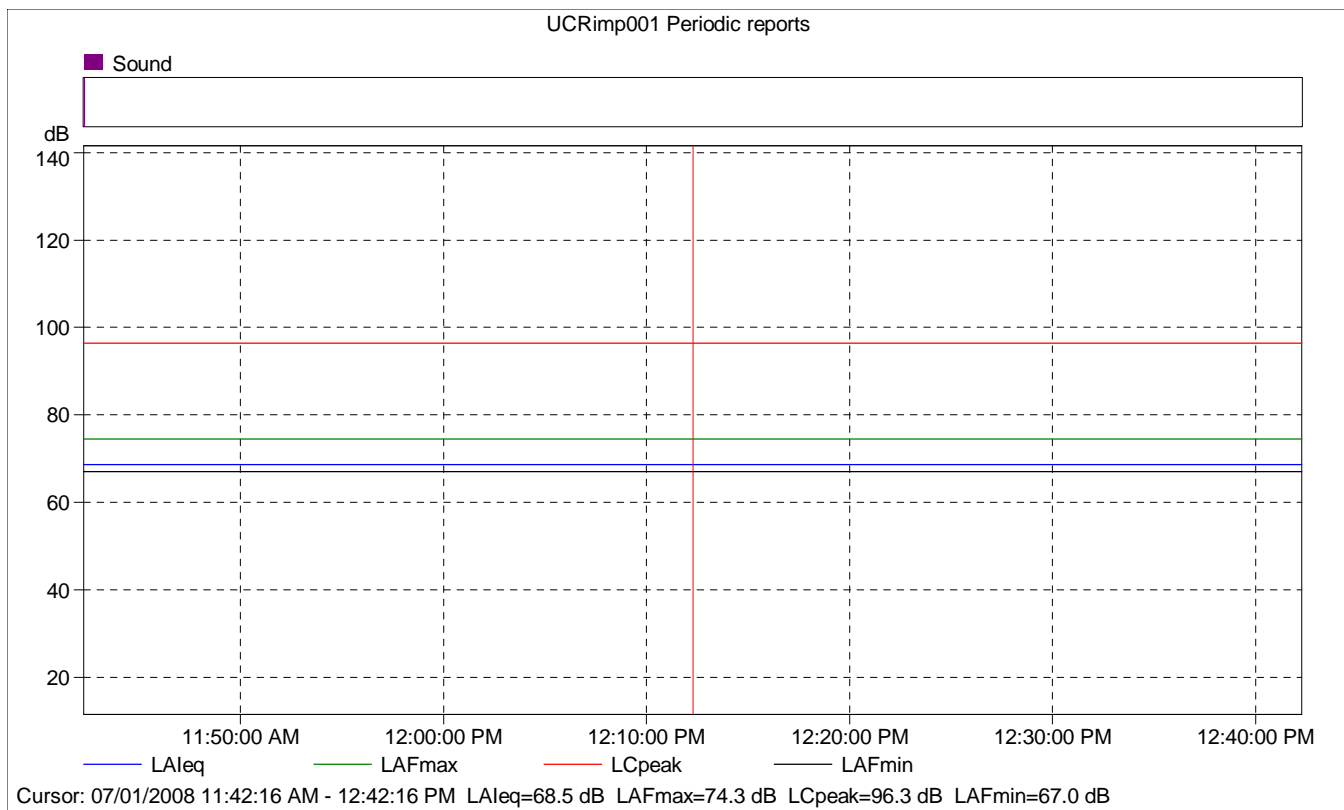




UCRimp001

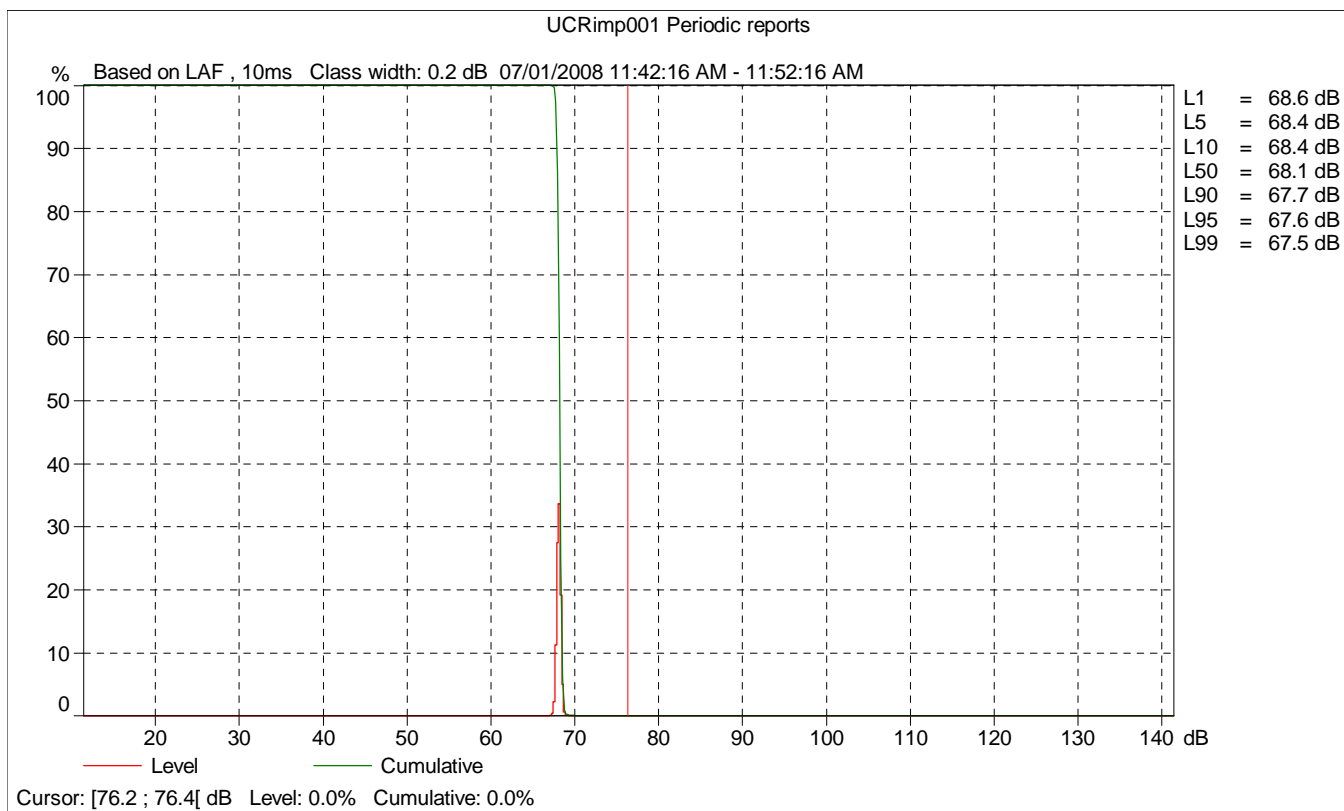
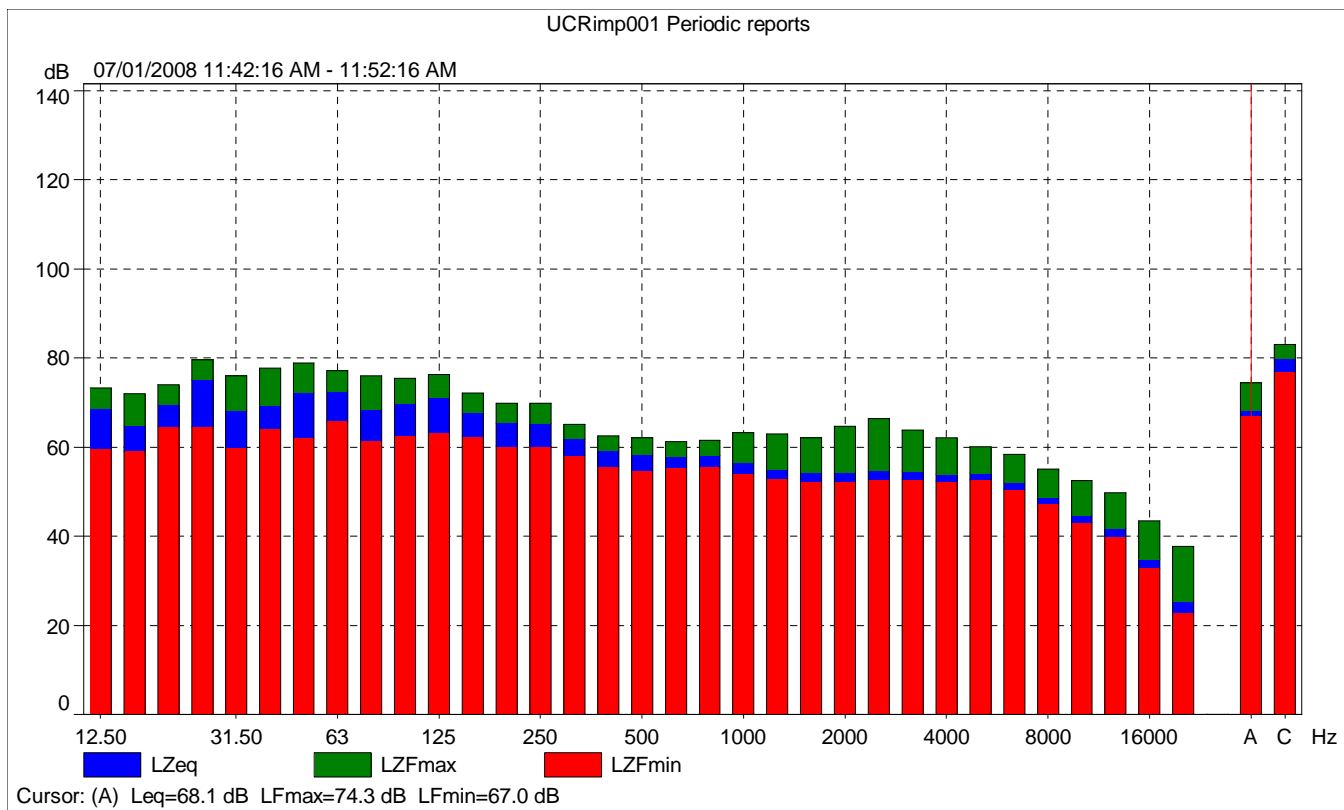
	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			68.6	68.6	67.8
Time	11:47:15 AM	0:00:01			
Date	07/01/2008				

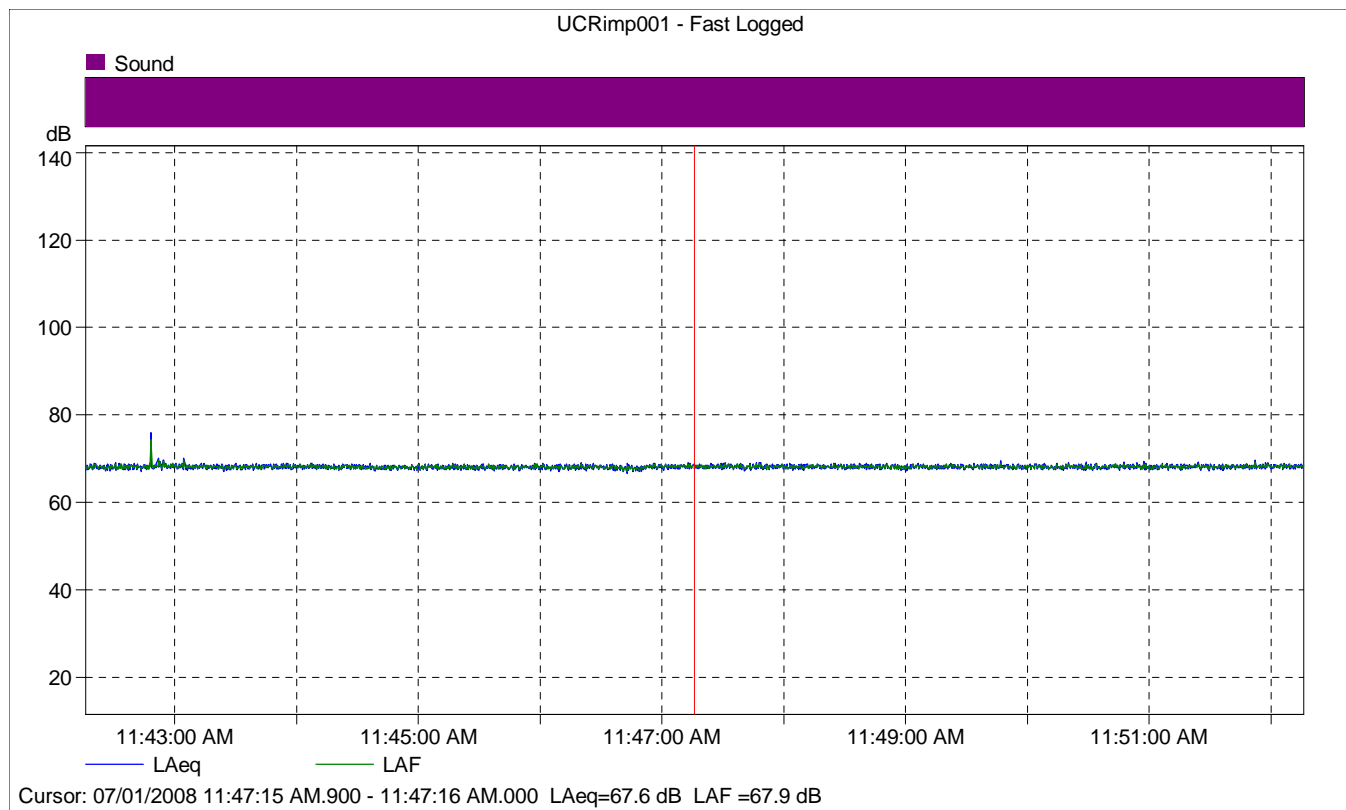




UCRimp001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	68.5	74.3	67.0
Time	11:42:16 AM	0:10:00				
Date	07/01/2008					





UCRimp001 - Fast Logged

	Start time	Elapsed time	LAeq [dB]
Value			67.6
Time	11:47:15 AM.900	0:00:00.100	
Date	07/01/2008		

Site Number: University of California Riverside Site #2			
Recorded By: Brian Allee & Michelle Dunn			
Job Number: 10106183			
Date: 7/01/08			
Time: 12:07 PM			
Location: Site 2 (TES TANK #1)			
GPS:			
Source of Peak Noise: Vehicle noise in background from I-215 – golf cart drove by – truck and trailer drove by – 3 cars passed - birds chirping – bugs hum/critters making noise - windy/breezy – noise from nearby AC units/HVAC/generators/utilities -			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
48.0	44.7	62.9	72.7

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/14/2007	
	Microphone	Brüel & Kjær	4189	2543364	11/15/2007	
	Preamp	Brüel & Kjær	ZC 0032	4265	7/18/2006	
	Calibrator	Brüel & Kjær	4231	2545667	7/31/2006	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀		
	Note: dBA Offset = -0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (hPa)	
	1.8		97.3		970.5	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 2.0.2
Start Time:		07/01/2008 12:07:24
End Time:		07/01/2008 12:17:24
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		140.20

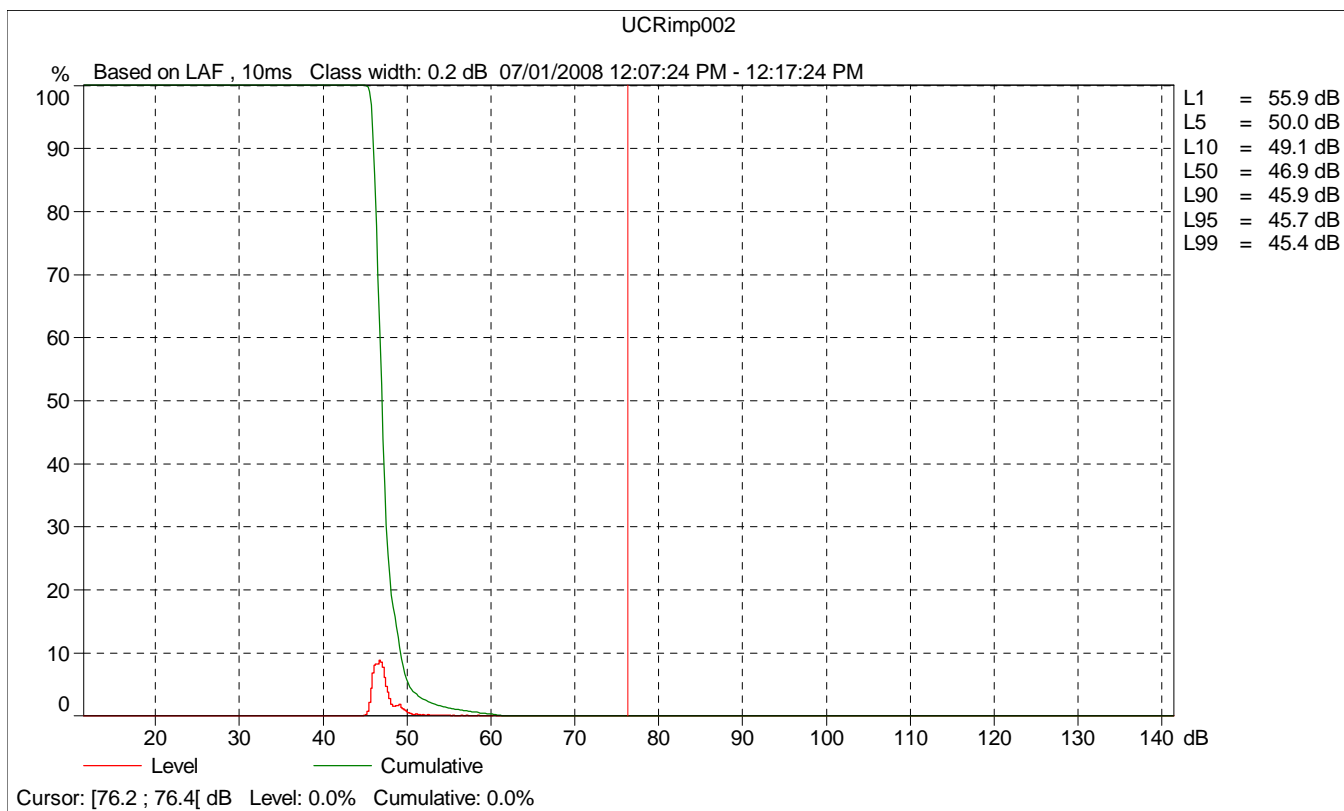
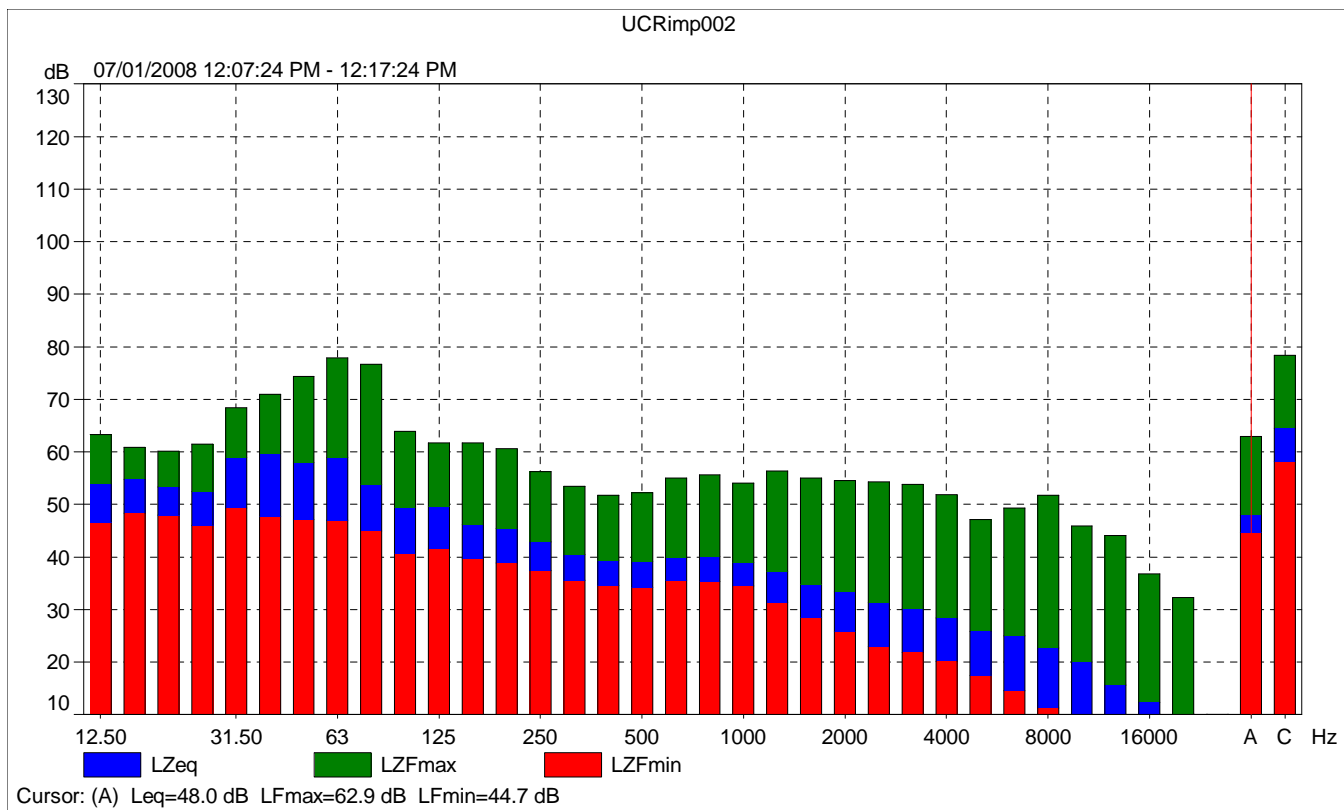
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

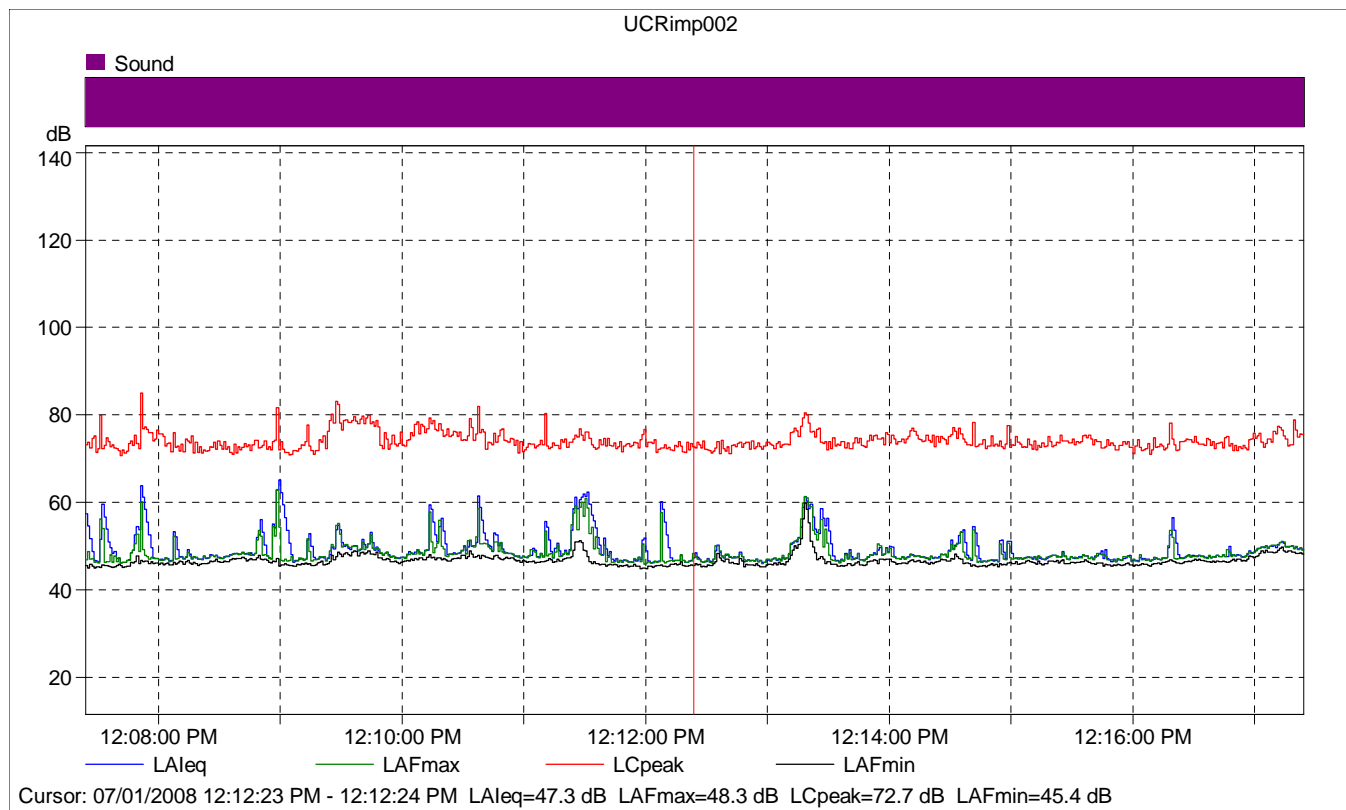
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		07/01/2008 09:32:07
Calibration Type:		External reference
Sensitivity:		54.43 mV/Pa

UCRimp002

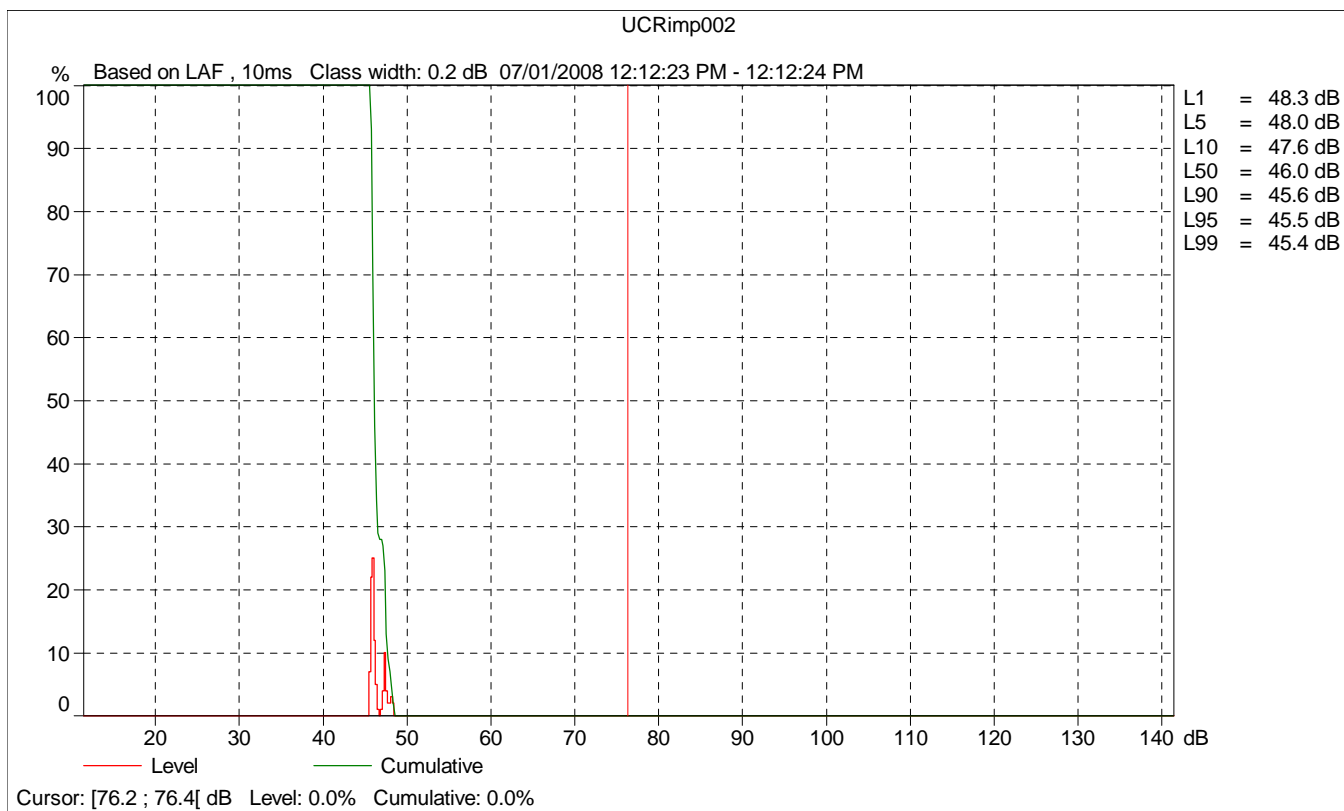
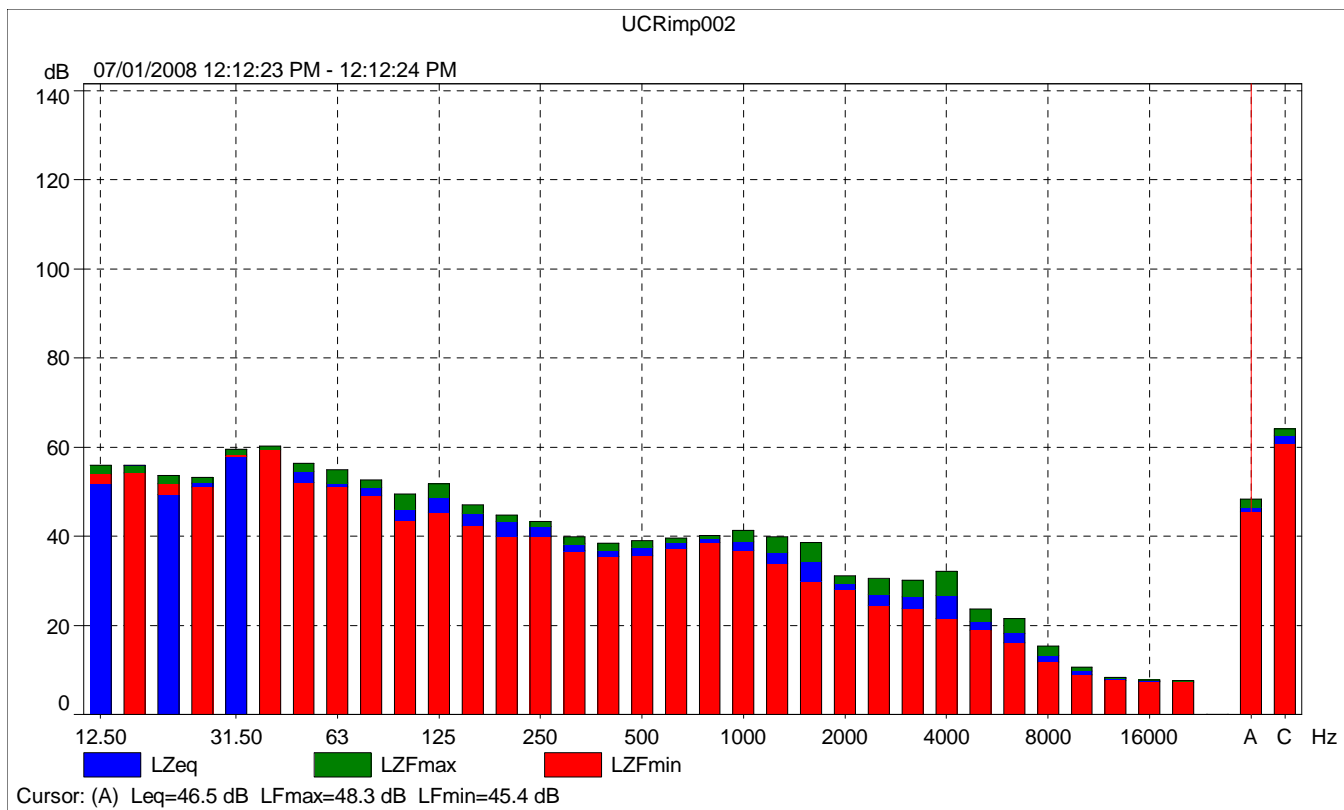
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	48.0	62.9	44.7
Time	12:07:24 PM	12:17:24 PM	0:10:00				
Date	07/01/2008	07/01/2008					

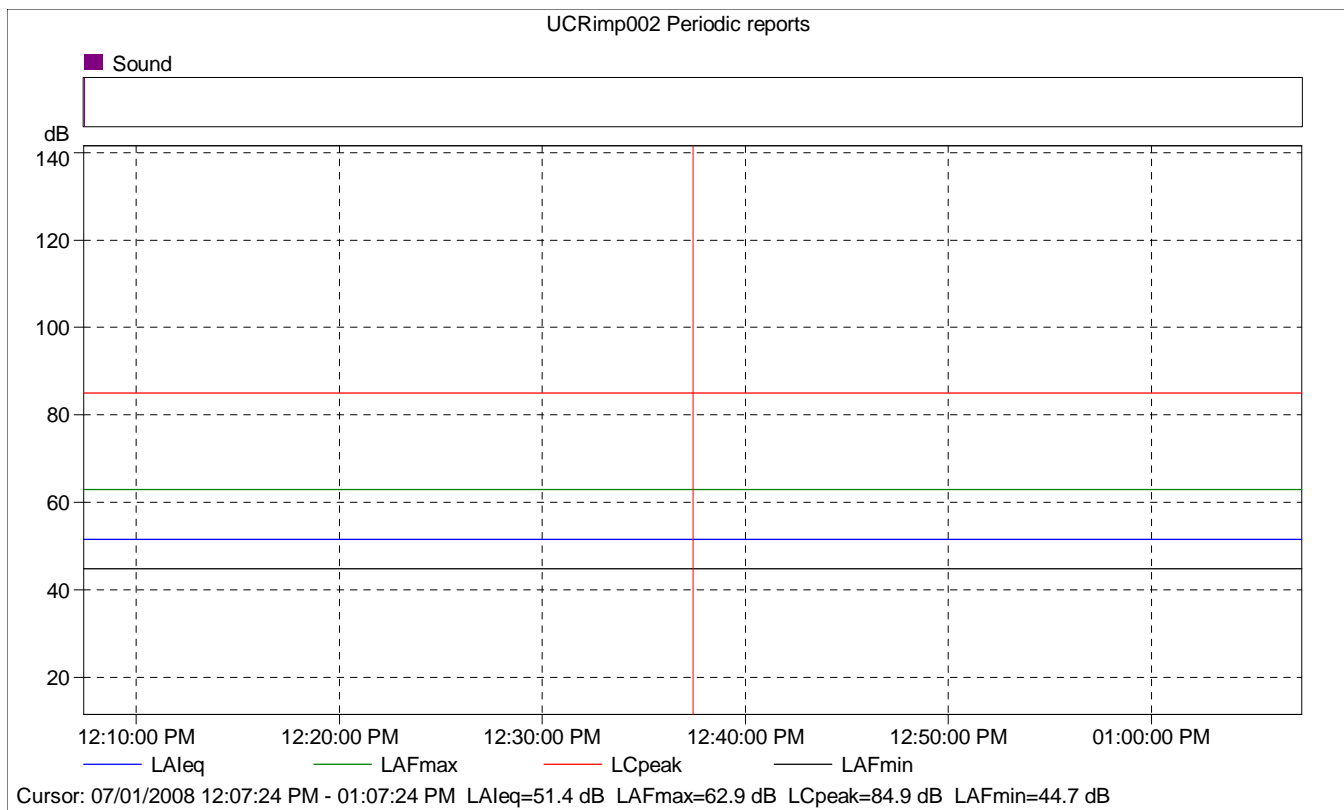




UCRimp002

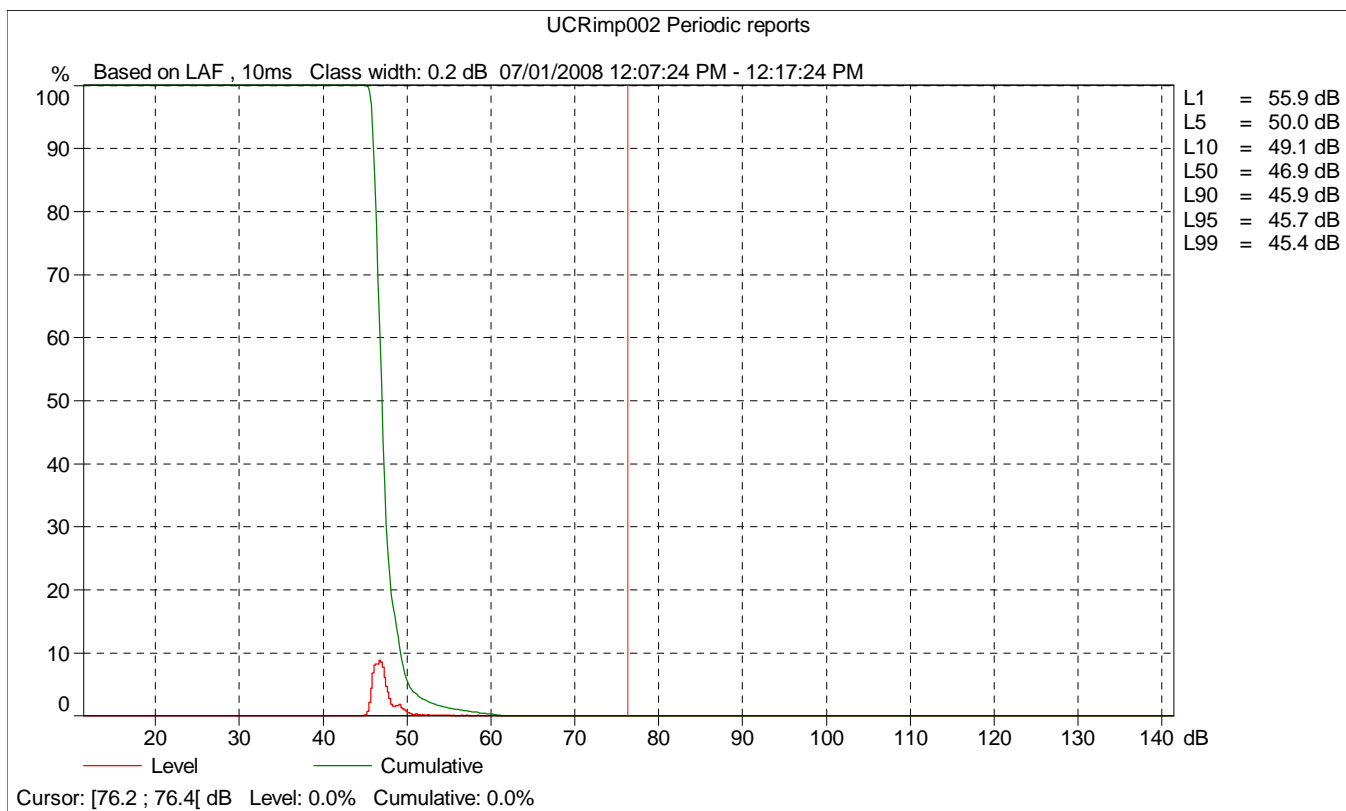
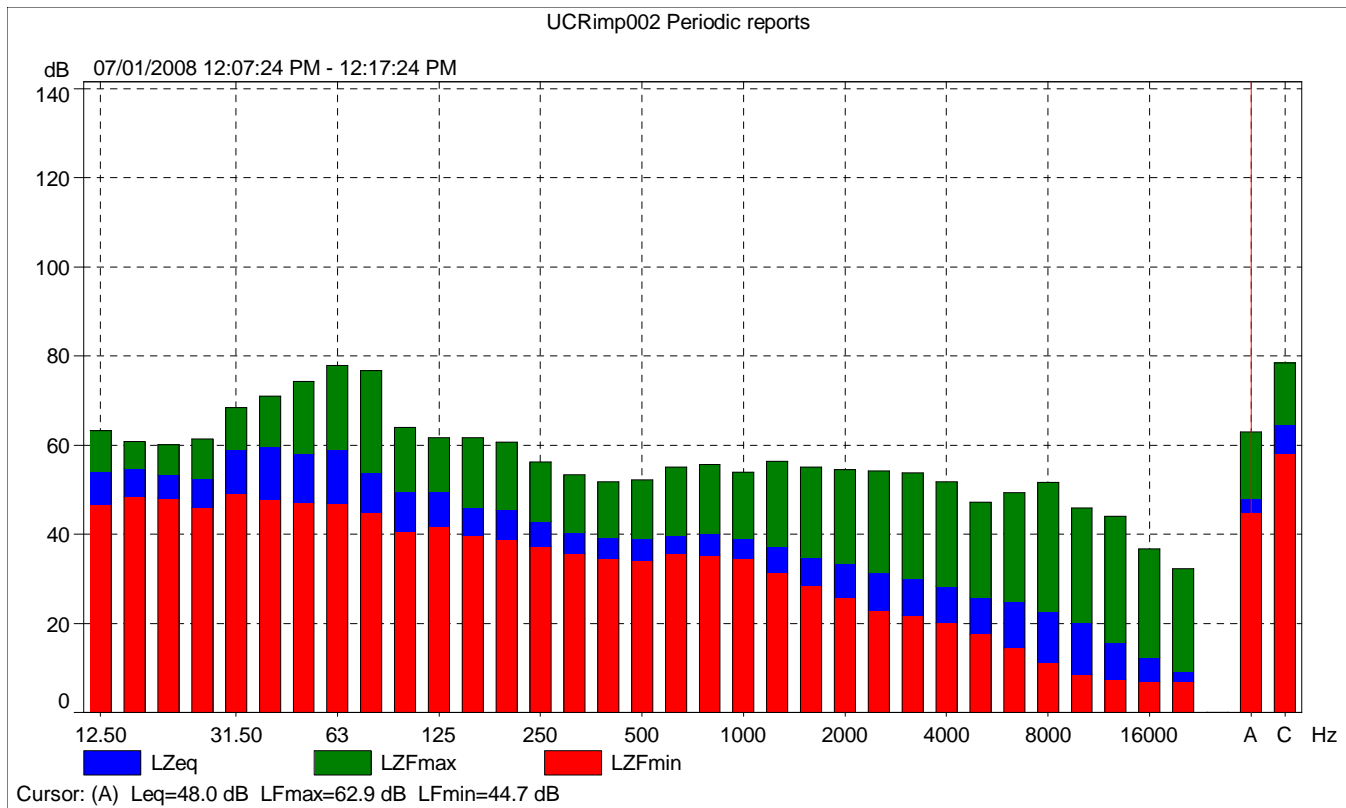
	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			47.3	48.3	45.4
Time	12:12:23 PM	0:00:01			
Date	07/01/2008				

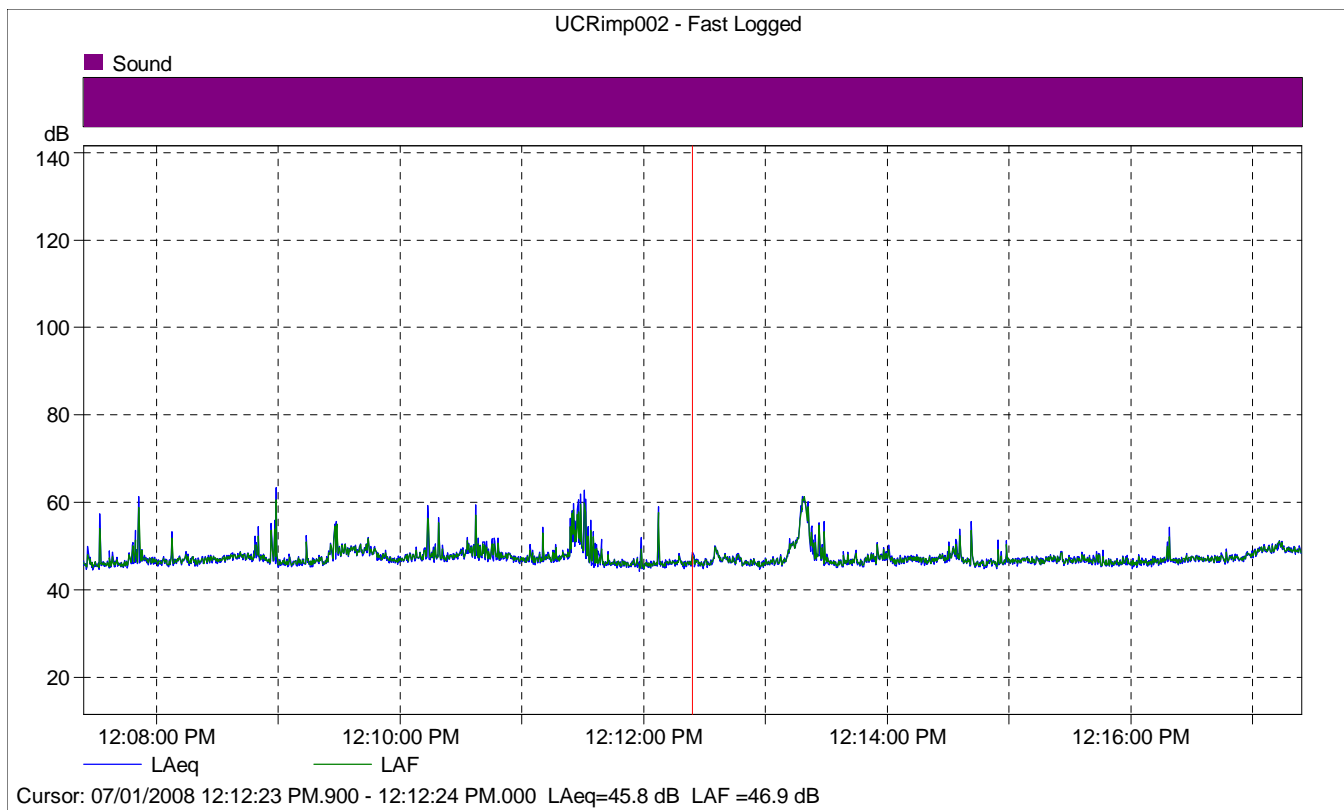




UCRimp002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	51.4	62.9	44.7
Time	12:07:24 PM	0:10:00				
Date	07/01/2008					





UCRimp002 - Fast Logged

	Start time	Elapsed time	LAeq [dB]
Value			45.8
Time	12:12:23 PM.900	0:00:00.100	
Date	07/01/2008		

Site Number: University of California Riverside Site #3			
Recorded By: Brian Allee & Michelle Dunn			
Job Number: 10106183			
Date: 7/01/08			
Time: 12:25 PM			
Location: Site 3 (Satellite Chiller Plant)			
GPS:			
Source of Peak Noise: Helicopter flew over – truck drove by – vehicle noise in background from I-215 – birds chirping – nearby construction – lawn mower/gardeners working nearby – maintenance workers talking nearby and loading/unloading equipment from trucks			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
47.7	43.1	63.3	71.9

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/14/2007	
	Microphone	Brüel & Kjær	4189	2543364	11/15/2007	
	Preamp	Brüel & Kjær	ZC 0032	4265	7/18/2006	
	Calibrator	Brüel & Kjær	4231	2545667	7/31/2006	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀		
	Note: dBA Offset = -0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (hPa)	
	1.9		98.2		971.4	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 2.0.2
Start Time:		07/01/2008 12:25:15
End Time:		07/01/2008 12:35:15
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		140.20

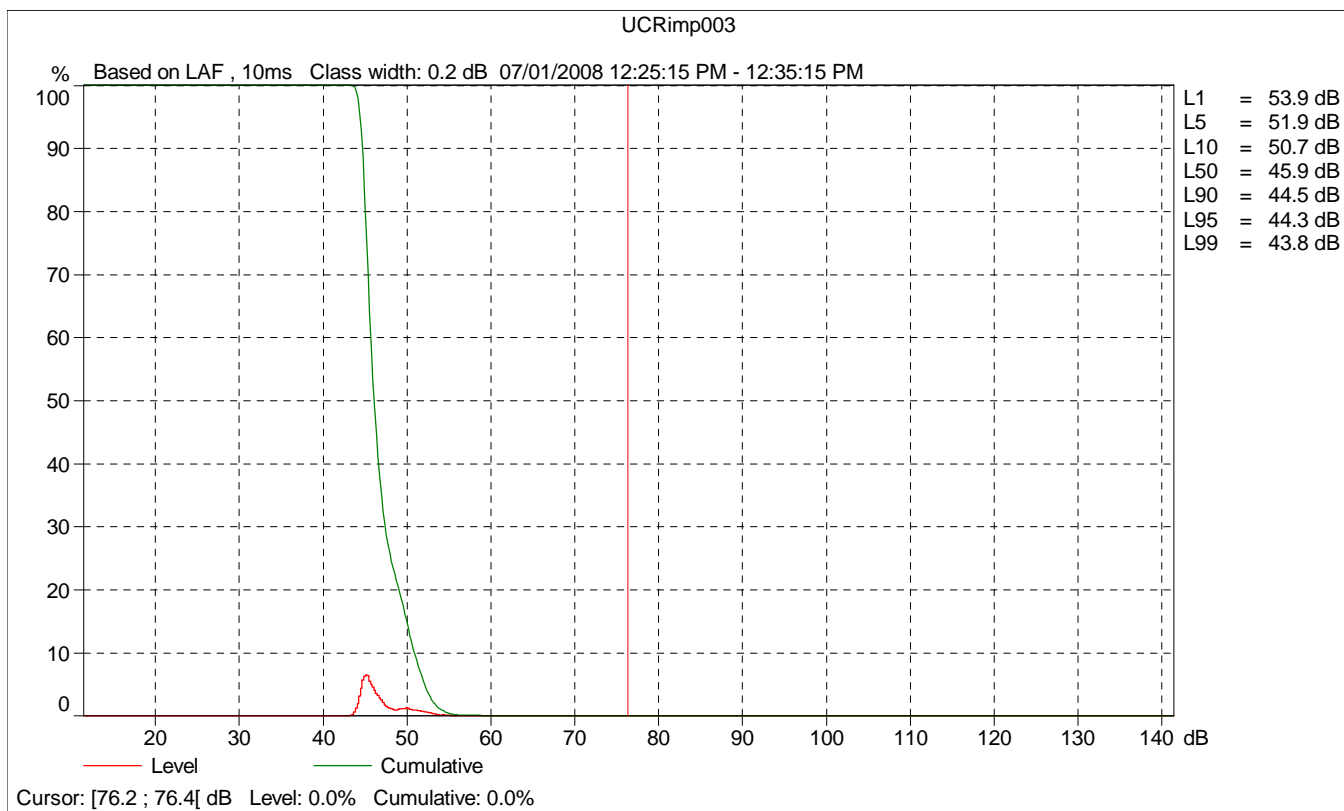
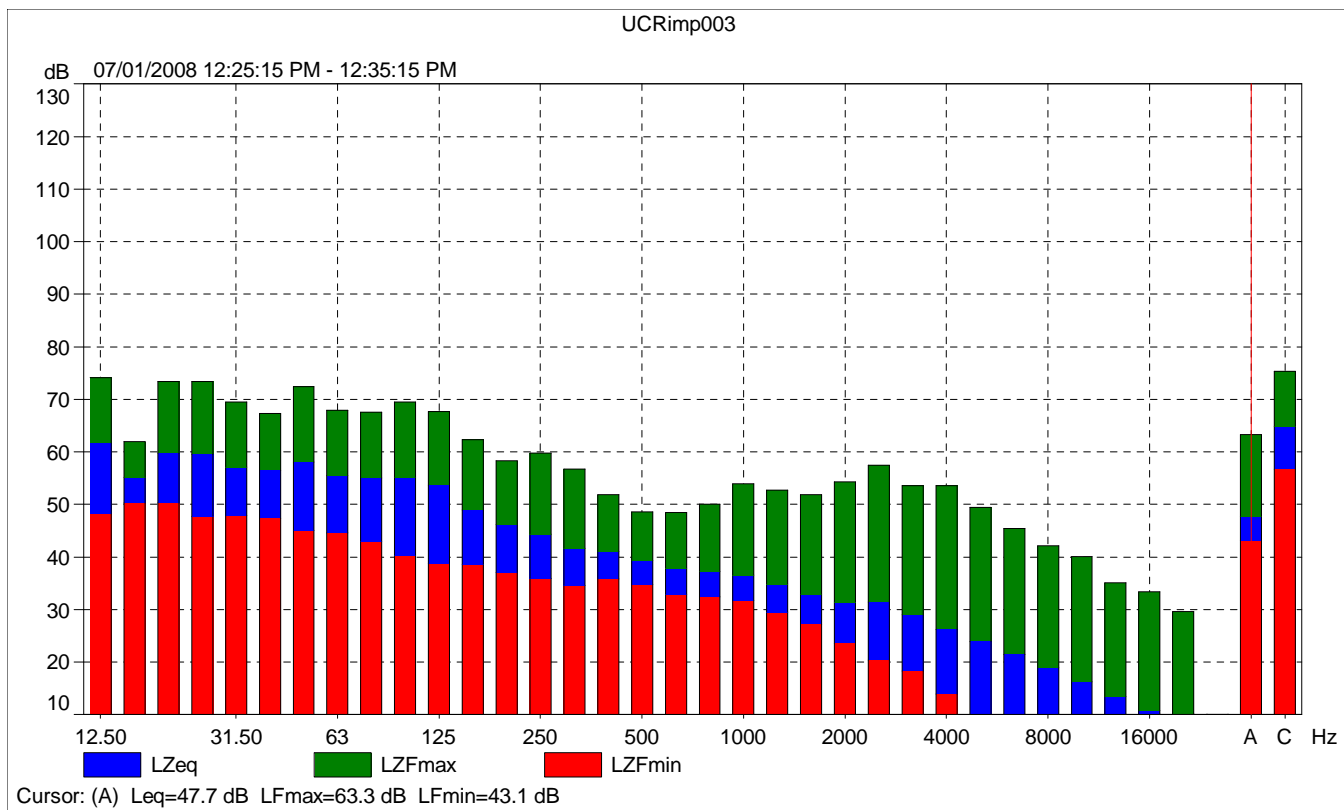
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

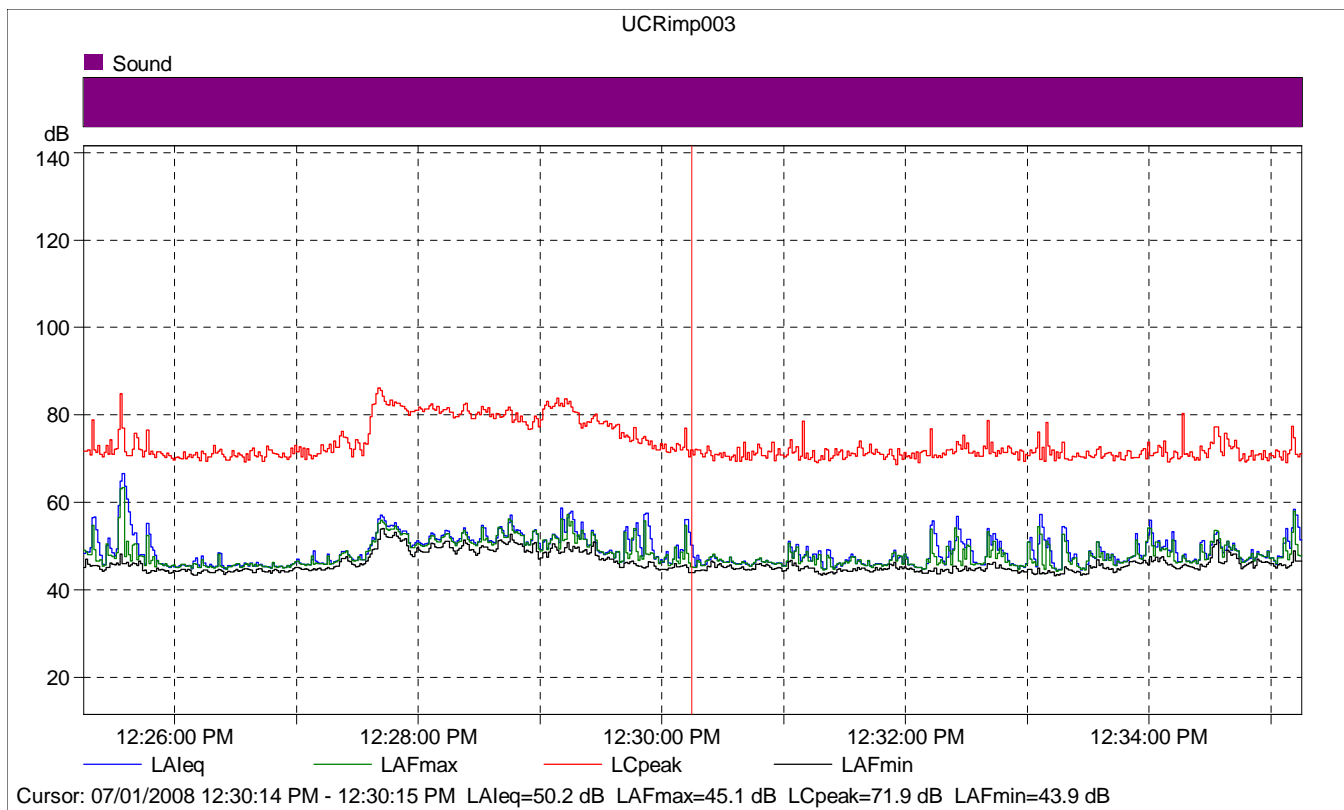
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		07/01/2008 09:32:07
Calibration Type:		External reference
Sensitivity:		54.43 mV/Pa

UCRimp003

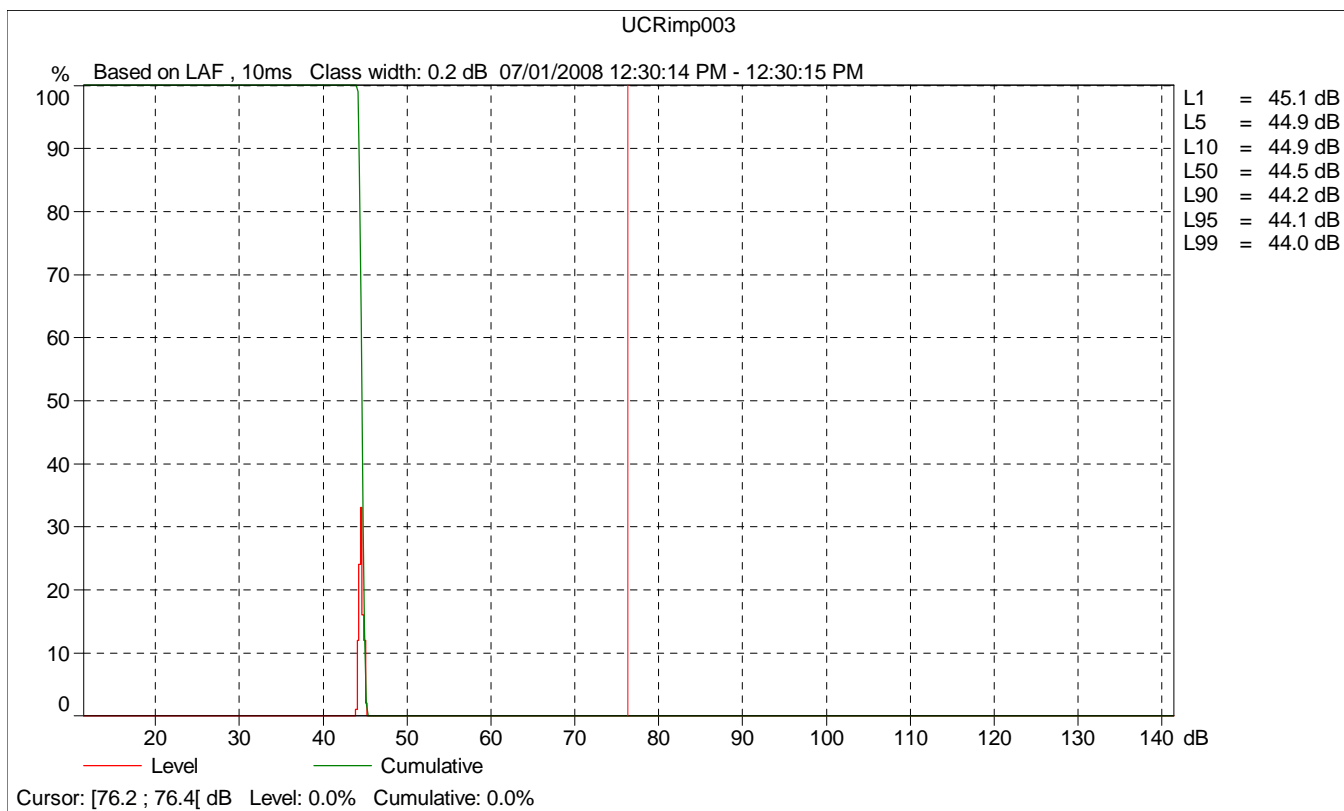
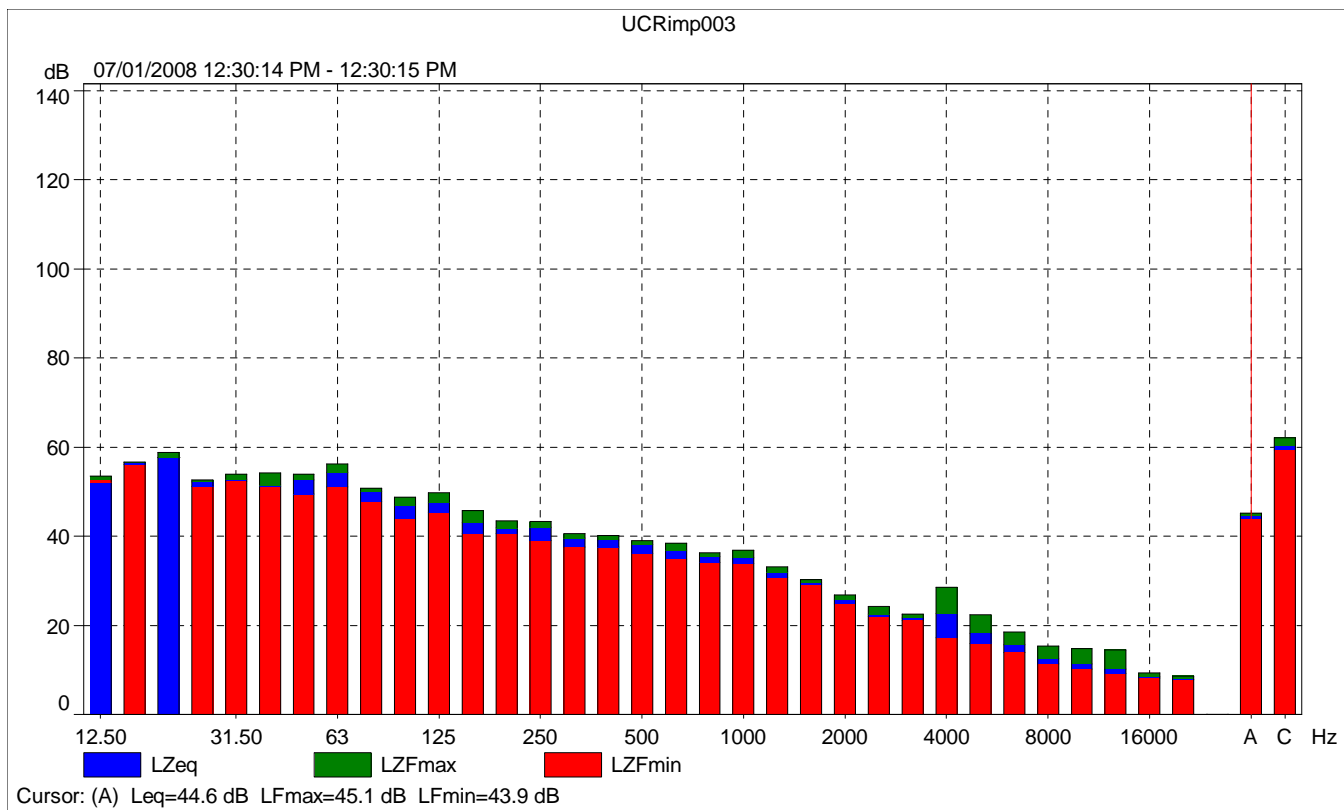
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	47.7	63.3	43.1
Time	12:25:15 PM	12:35:15 PM	0:10:00				
Date	07/01/2008	07/01/2008					

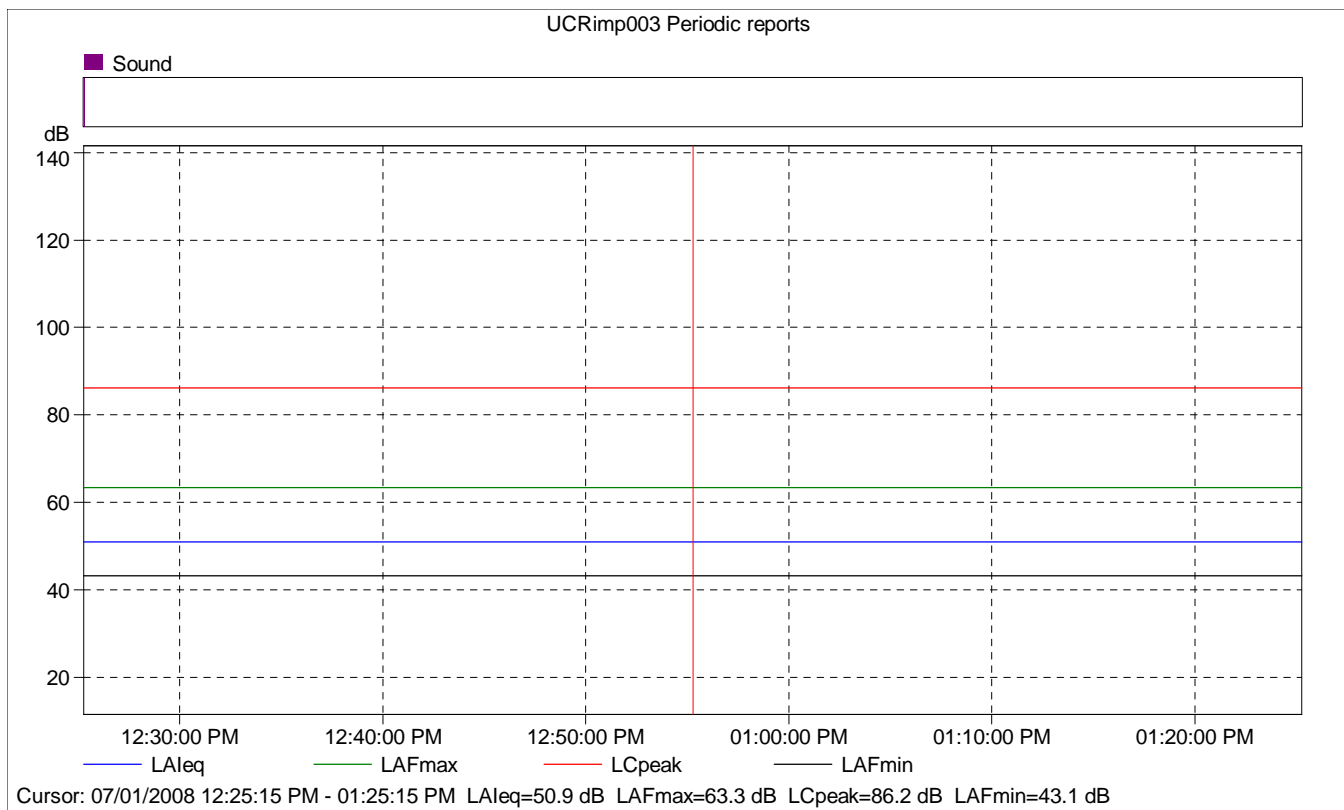




UCRimp003

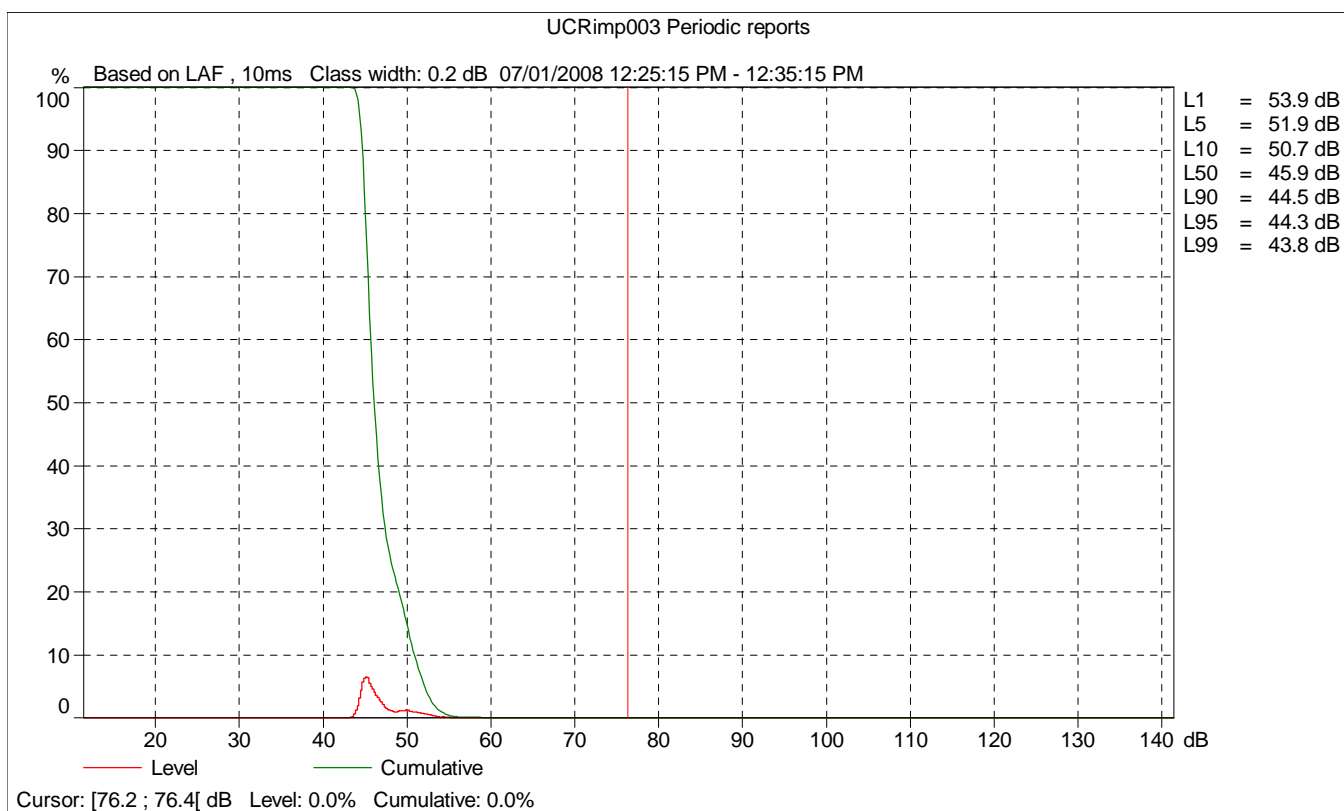
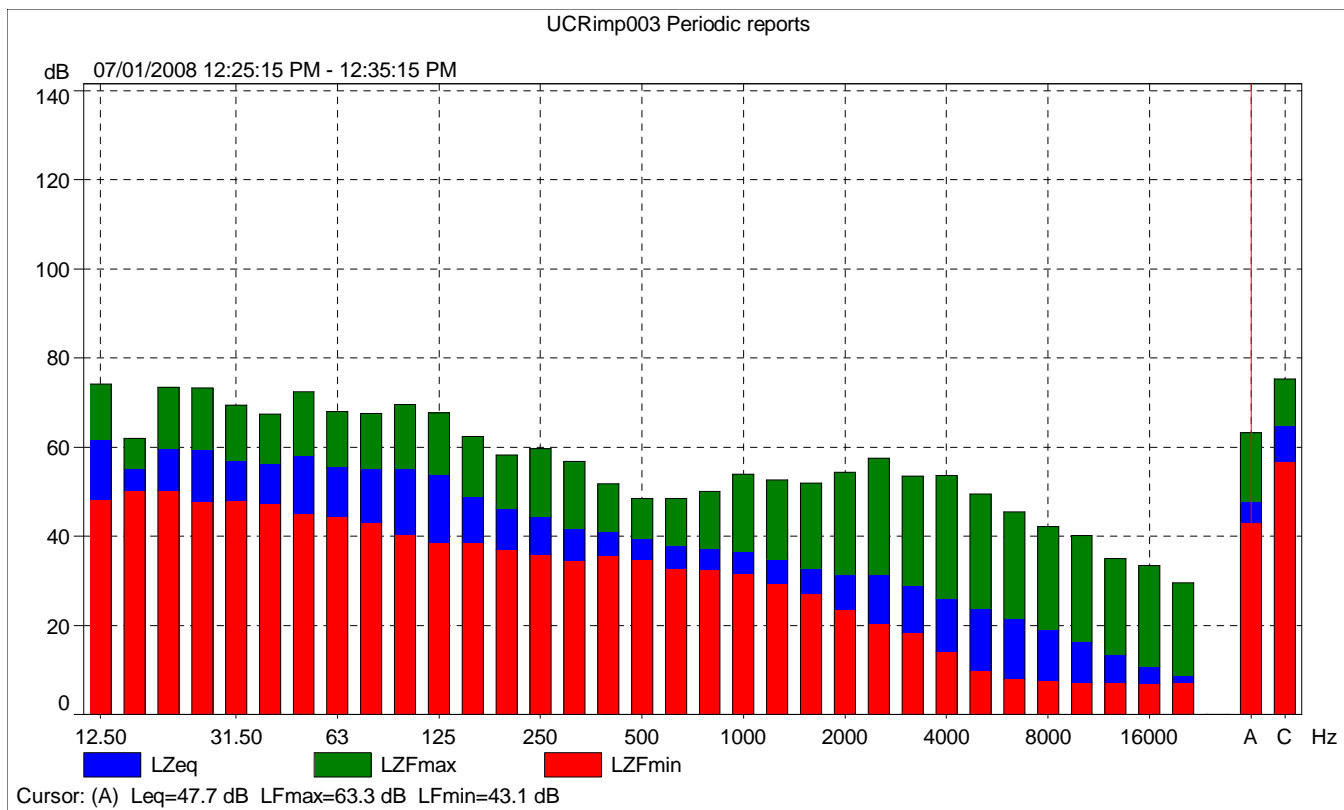
	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			50.2	45.1	43.9
Time	12:30:14 PM	0:00:01			
Date	07/01/2008				

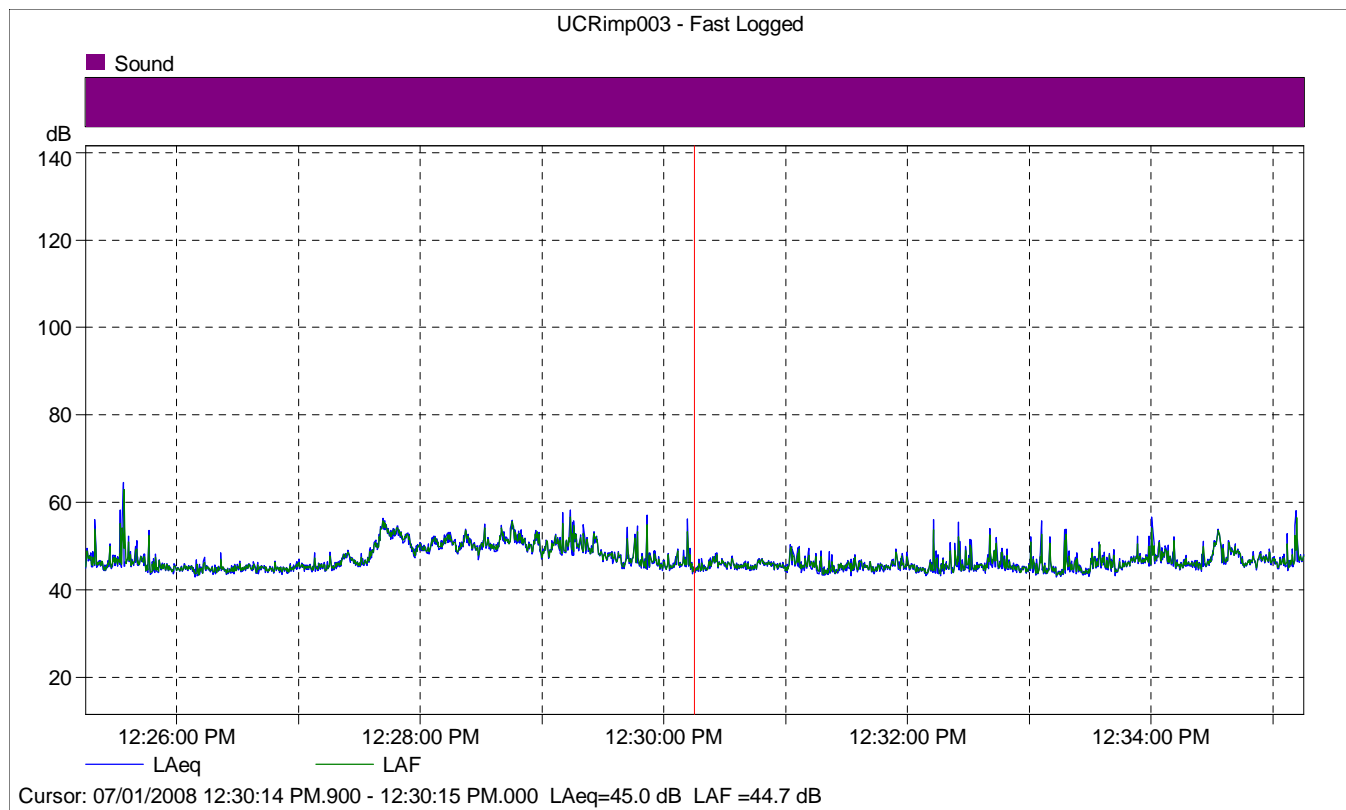




UCRimp003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	50.9	63.3	43.1
Time	12:25:15 PM	0:10:00				
Date	07/01/2008					





UCRimp003 - Fast Logged

	Start time	Elapsed time	LAeq [dB]
Value			45.0
Time	12:30:14 PM.900	0:00:00.100	
Date	07/01/2008		

Site Number: University of California Riverside Site #4			
Recorded By: Brian Allee & Michelle Dunn			
Job Number: 10106183			
Date: 7/01/08			
Time: 12:50 PM			
Location: Site 4			
GPS:			
Source of Peak Noise: HVAC units – Ambient traffic – 6-7 cars drove by – service trucks – people talking nearby – student walked by speaking on cell phone -			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
53.8	49.5	75.9	76.8

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/14/2007	
	Microphone	Brüel & Kjær	4189	2543364	11/15/2007	
	Preamplifier	Brüel & Kjær	ZC 0032	4265	7/18/2006	
	Calibrator	Brüel & Kjær	4231	2545667	7/31/2006	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀		
	Note: dBA Offset = -0.01			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (hPa)	
	0.8		98.0		973.3	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 2.0.2
Start Time:		07/01/2008 12:49:16
End Time:		07/01/2008 12:59:16
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		140.20

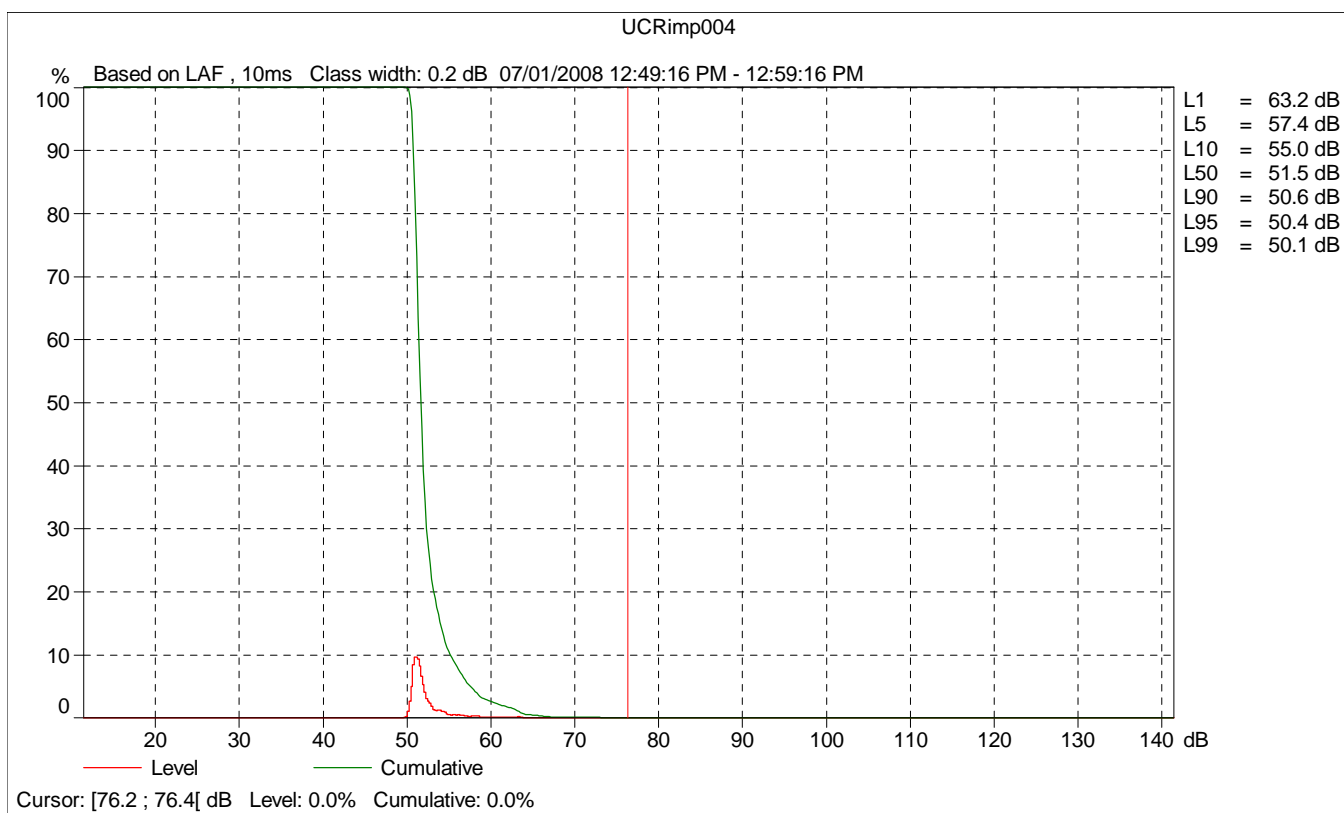
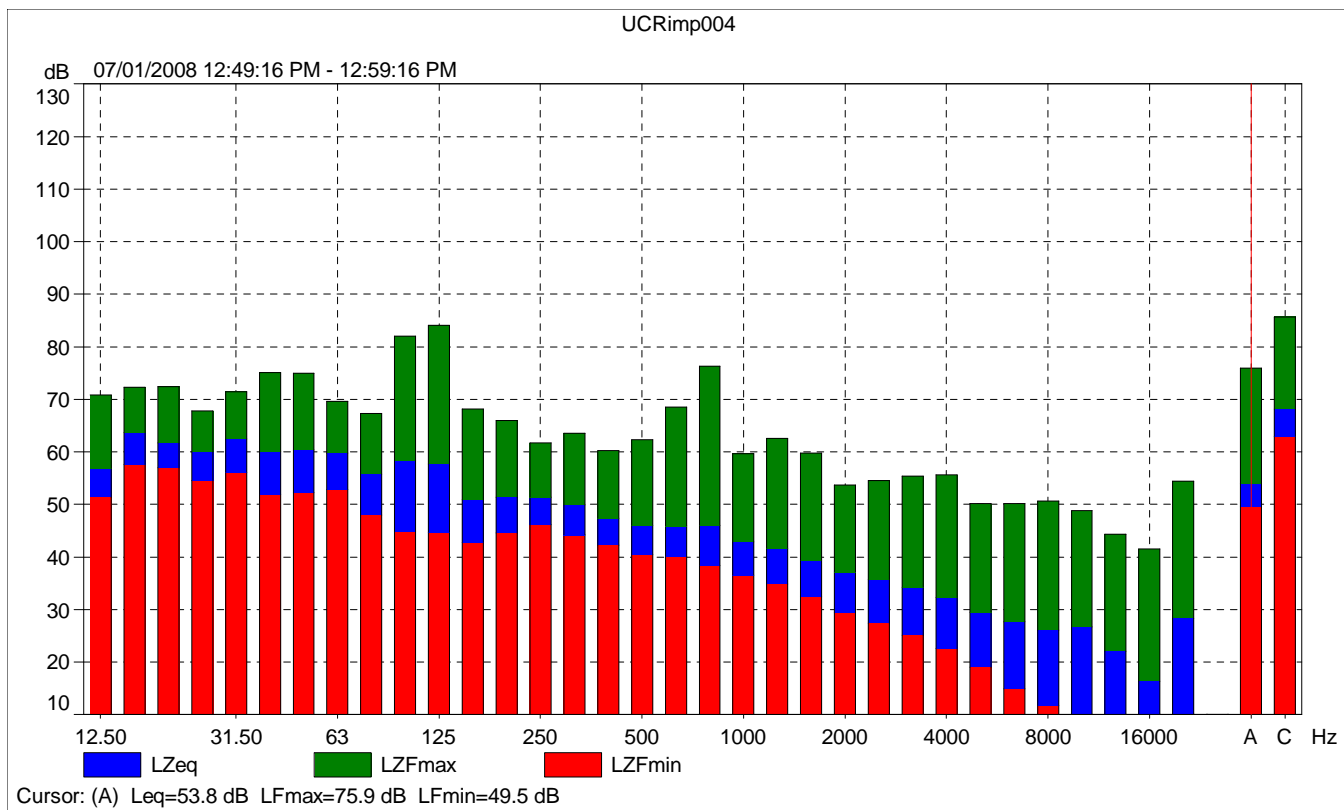
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

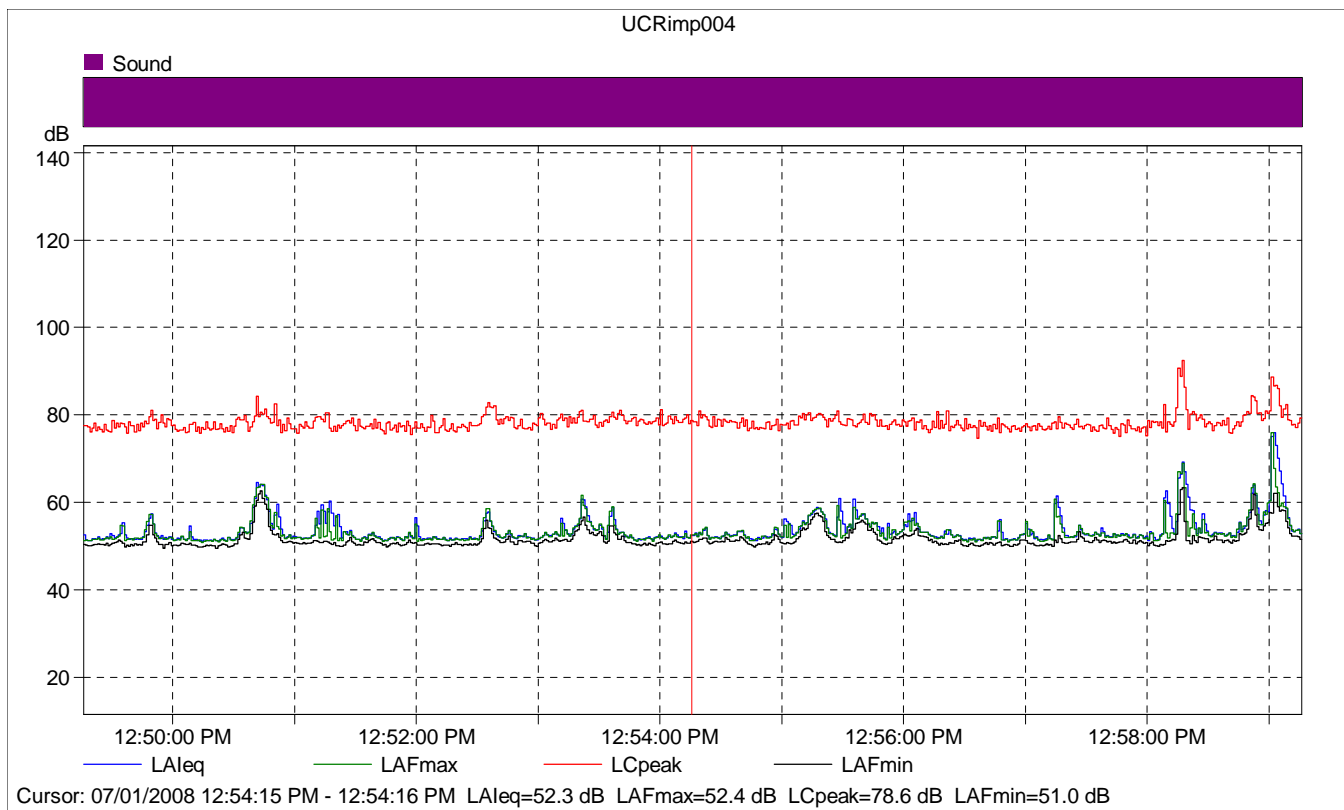
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		07/01/2008 09:32:07
Calibration Type:		External reference
Sensitivity:		54.43 mV/Pa

UCRimp004

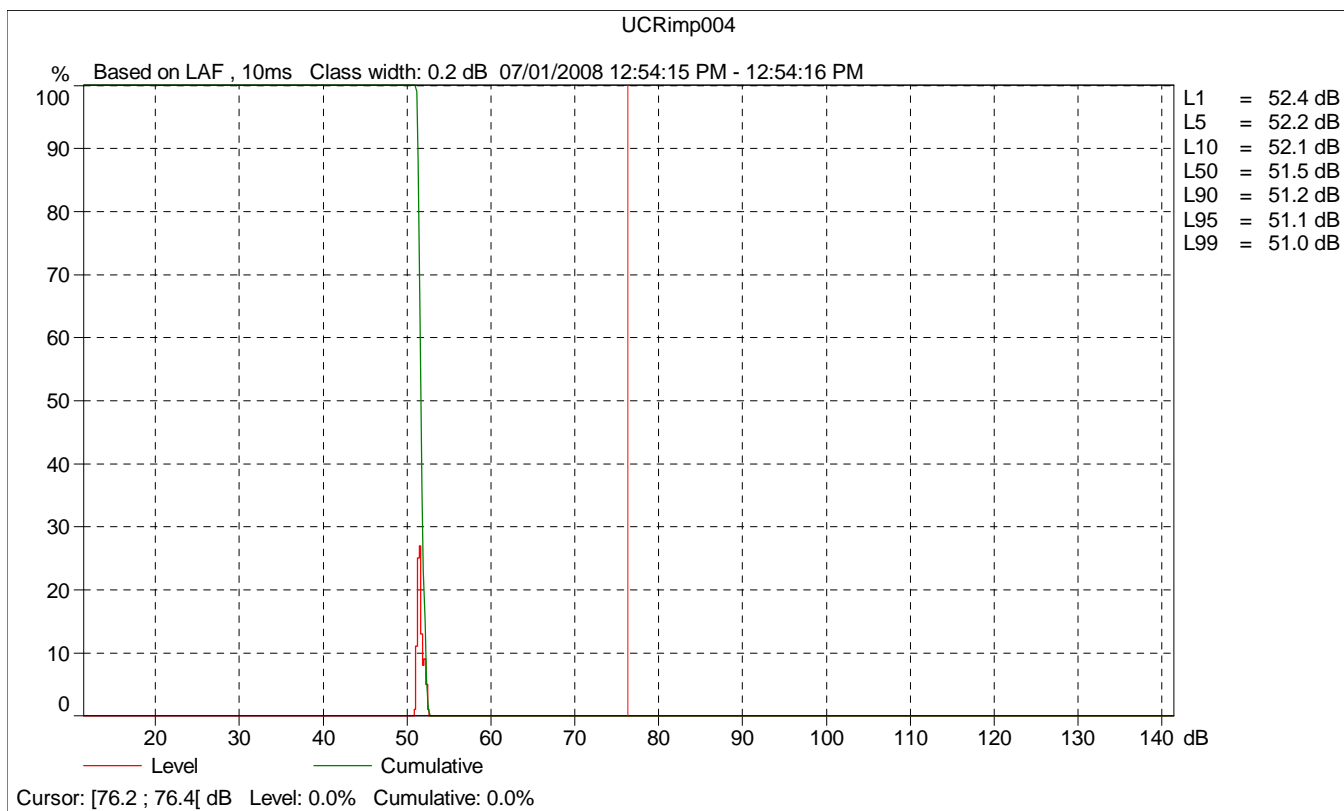
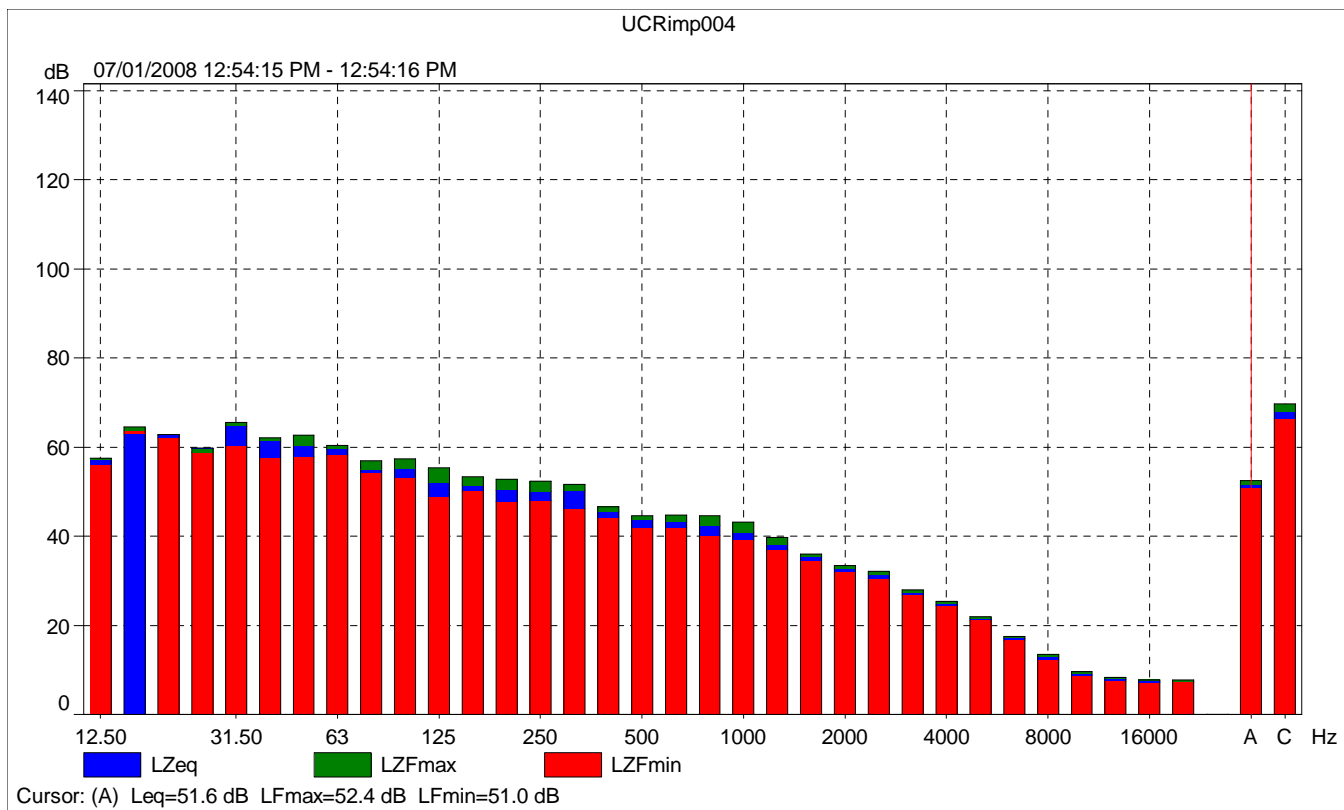
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	53.8	75.9	49.5
Time	12:49:16 PM	12:59:16 PM	0:10:00				
Date	07/01/2008	07/01/2008					

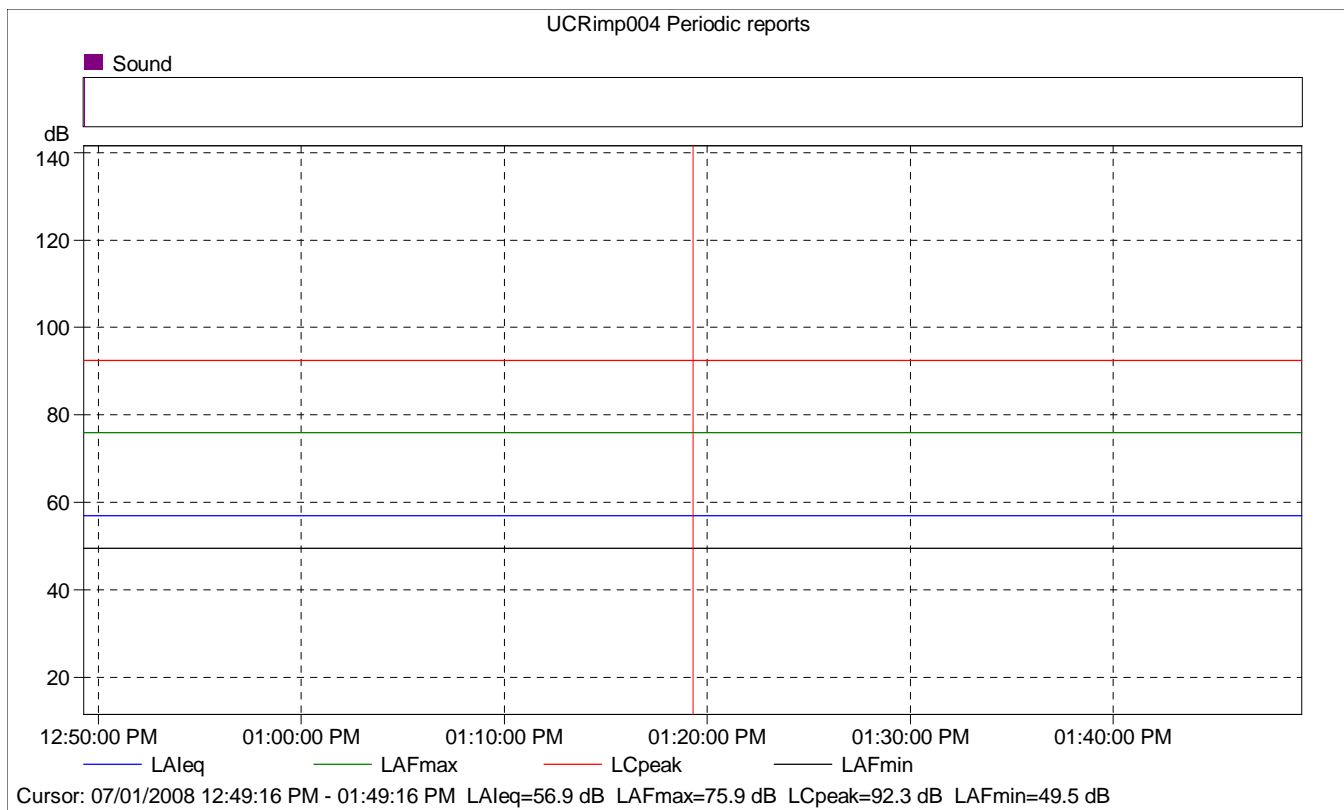




UCRimp004

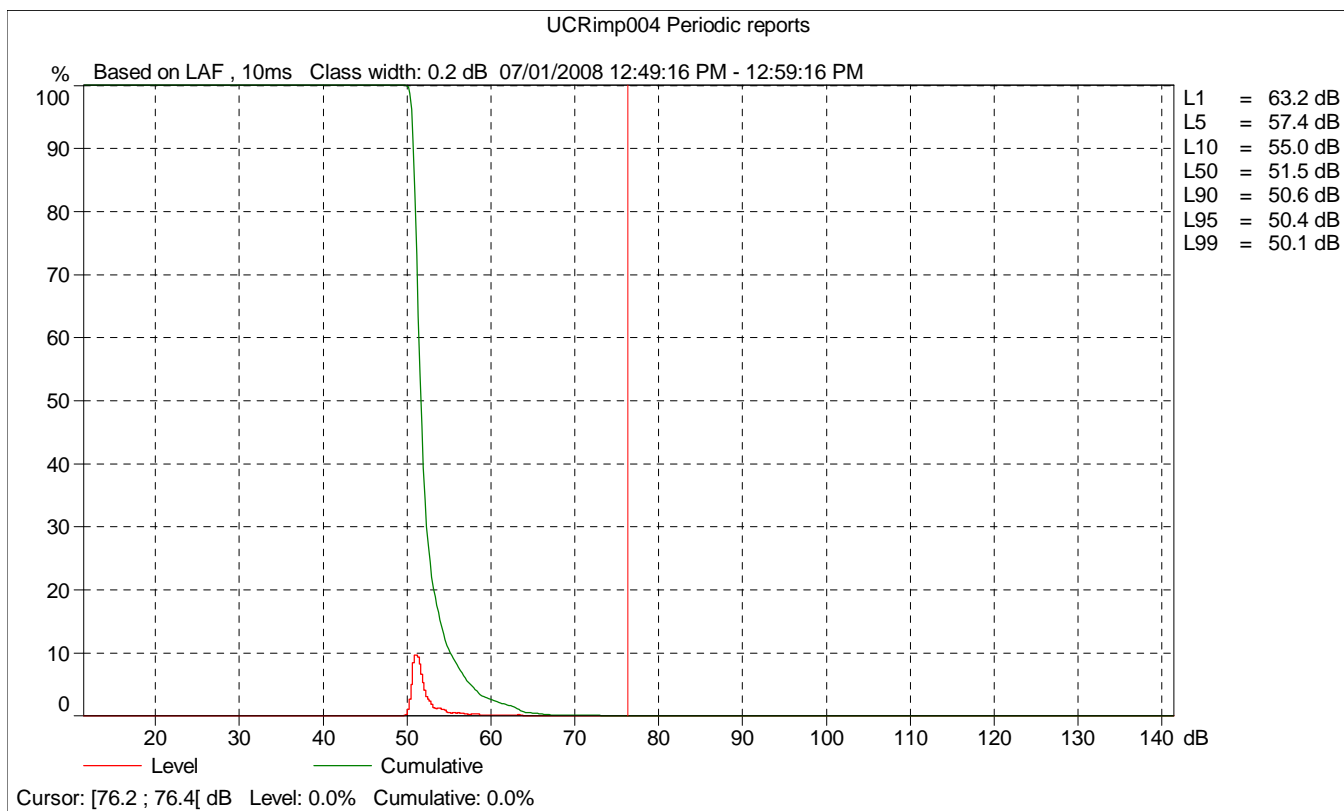
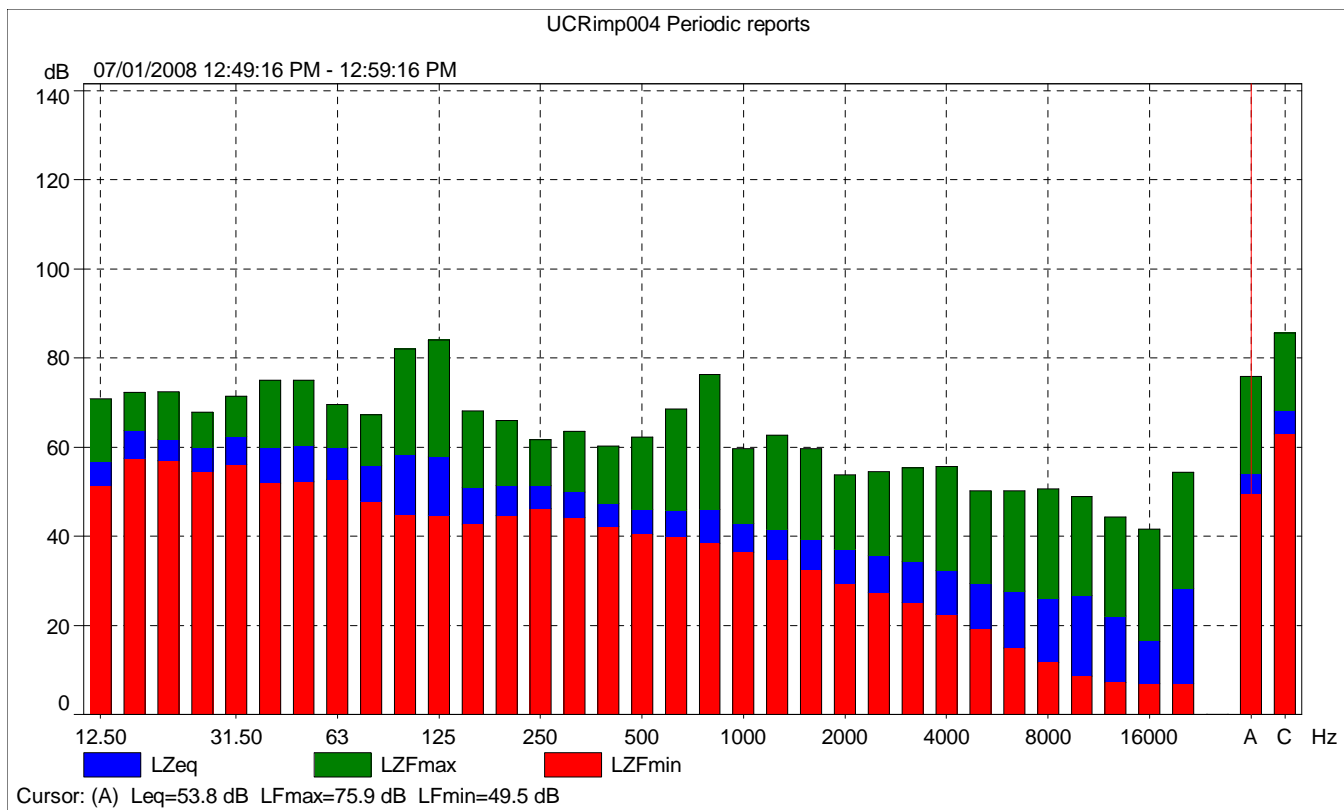
	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			52.3	52.4	51.0
Time	12:54:15 PM	0:00:01			
Date	07/01/2008				

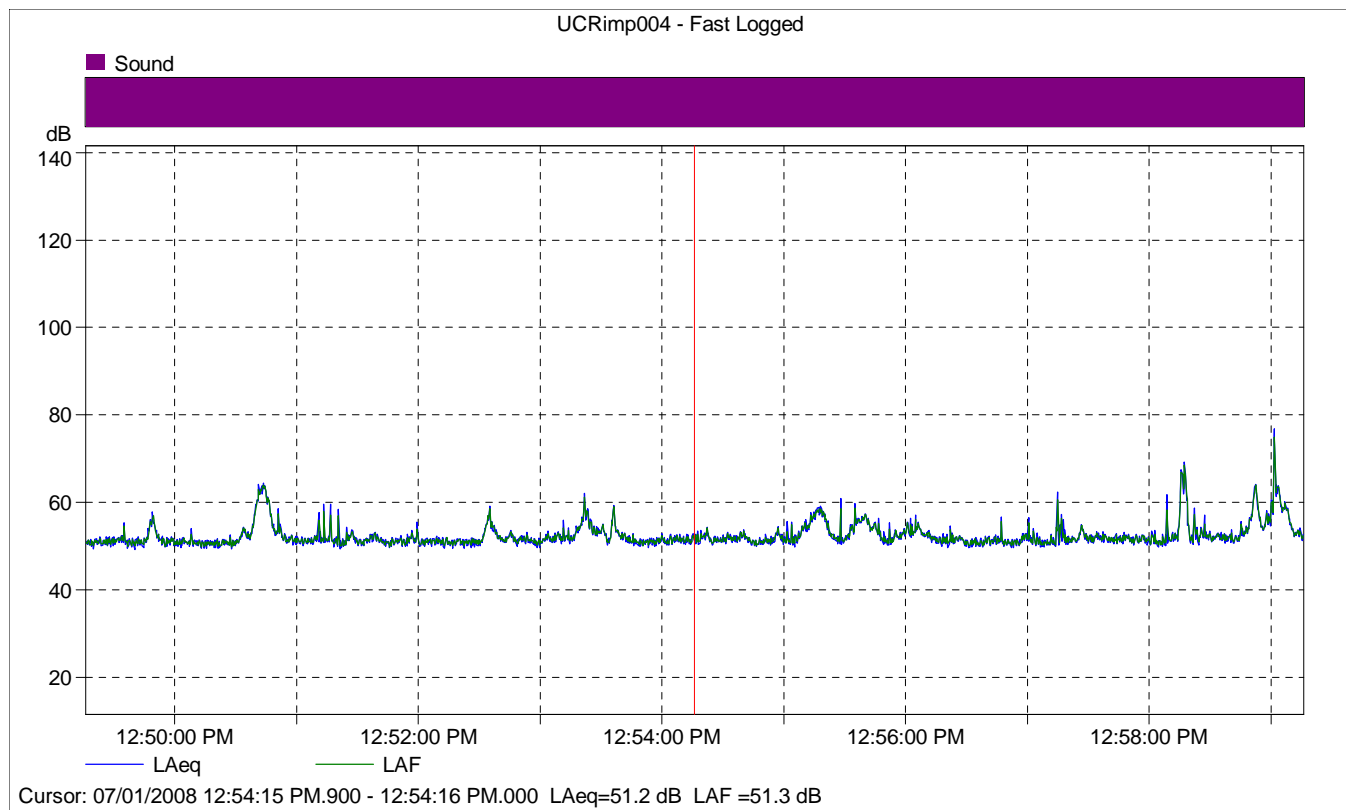




UCRimp004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	56.9	75.9	49.5
Time	12:49:16 PM	0:10:00				
Date	07/01/2008					





UCRimp004 - Fast Logged

	Start time	Elapsed time	LAeq [dB]
Value			51.2
Time	12:54:15 PM.900	0:00:00.100	
Date	07/01/2008		