

Site Number: Orange Chick-fil-A Site #1			
Recorded By: Pierre Glaize			
Job Number: 166516			
Date: 06/19/18			
Time: 9:48 a.m.			
Location: Near apartment #1514, adjacent to alleyway, off Almond Avenue & McRoy Road.			
Source of Peak Noise: Construction noise nearby, traffic on Almond Avenue, plane above.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
58.4	50.6	76.0	90.6

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: Sunny		
	Note: dBA Offset = 0.00			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	1		68		30.00	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		06/19/2018 09:47:47
End Time:		06/19/2018 09:57:47
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.05

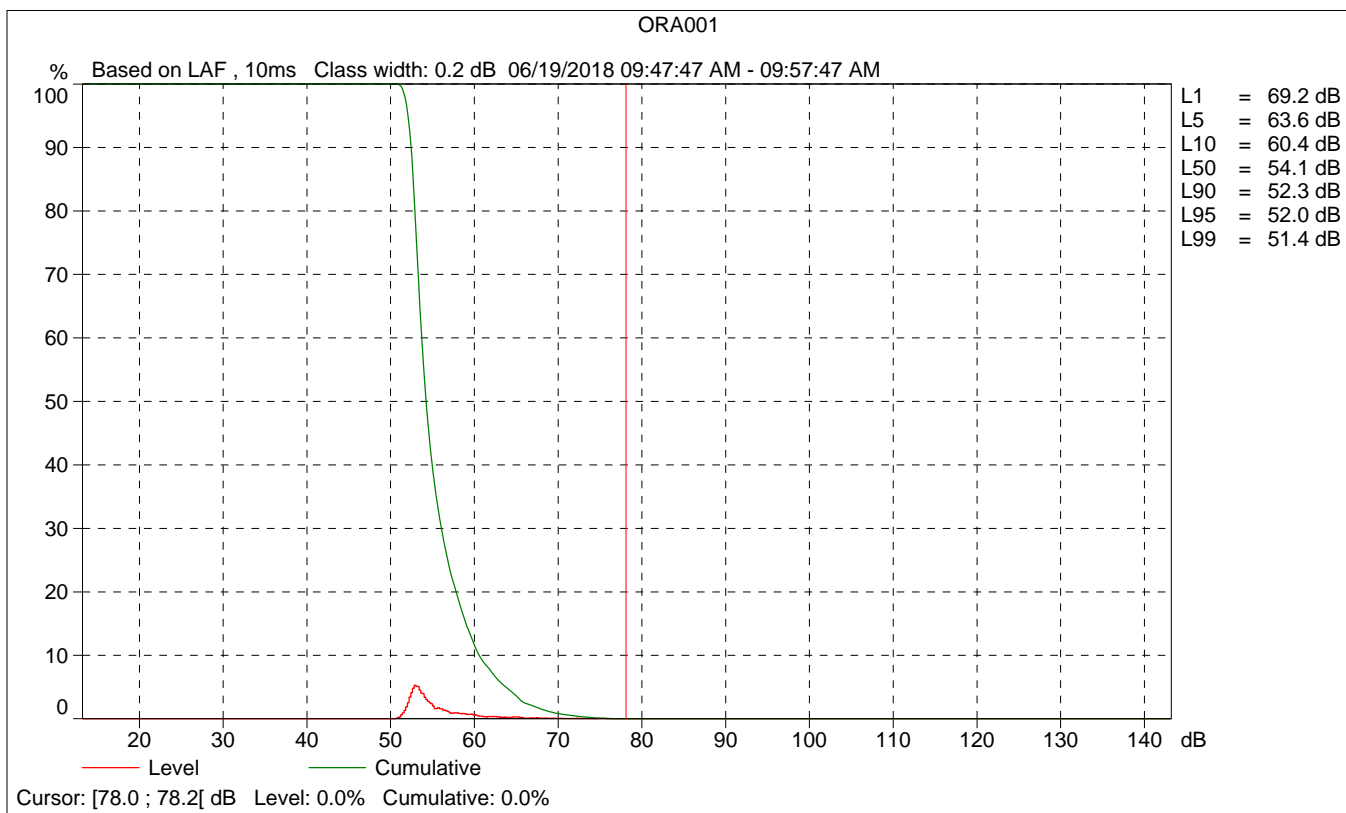
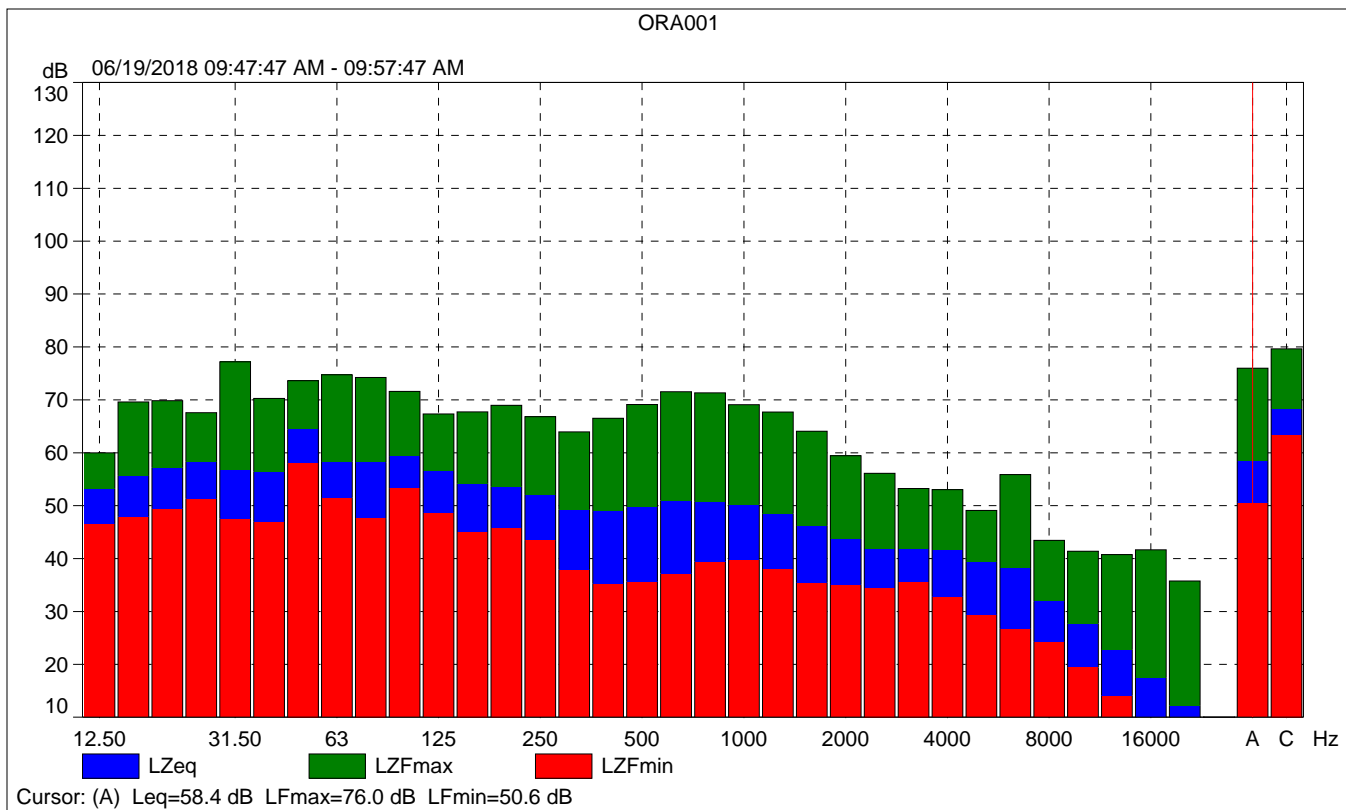
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

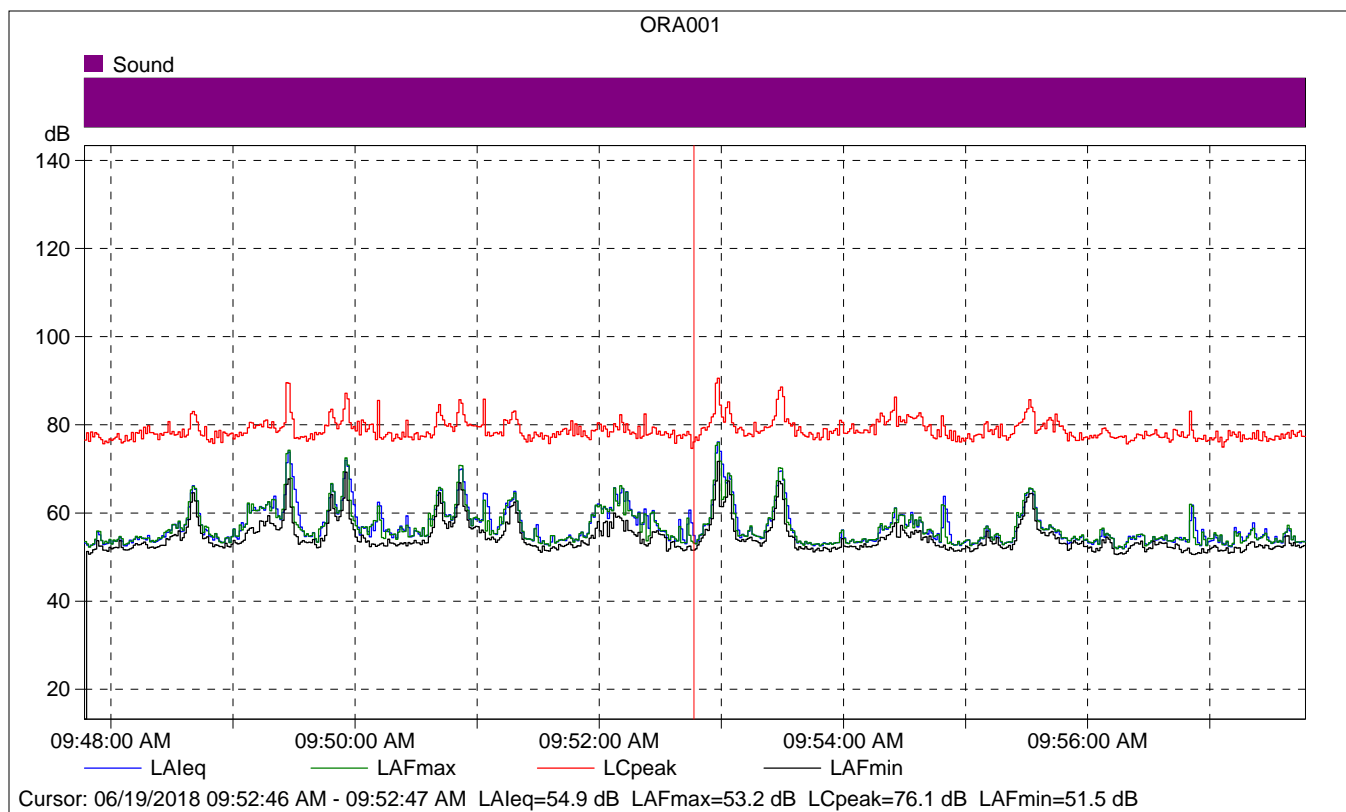
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		06/19/2018 08:41:52
Calibration Type:		External reference
Sensitivity:		43.9977012574673 mV/Pa

ORA001

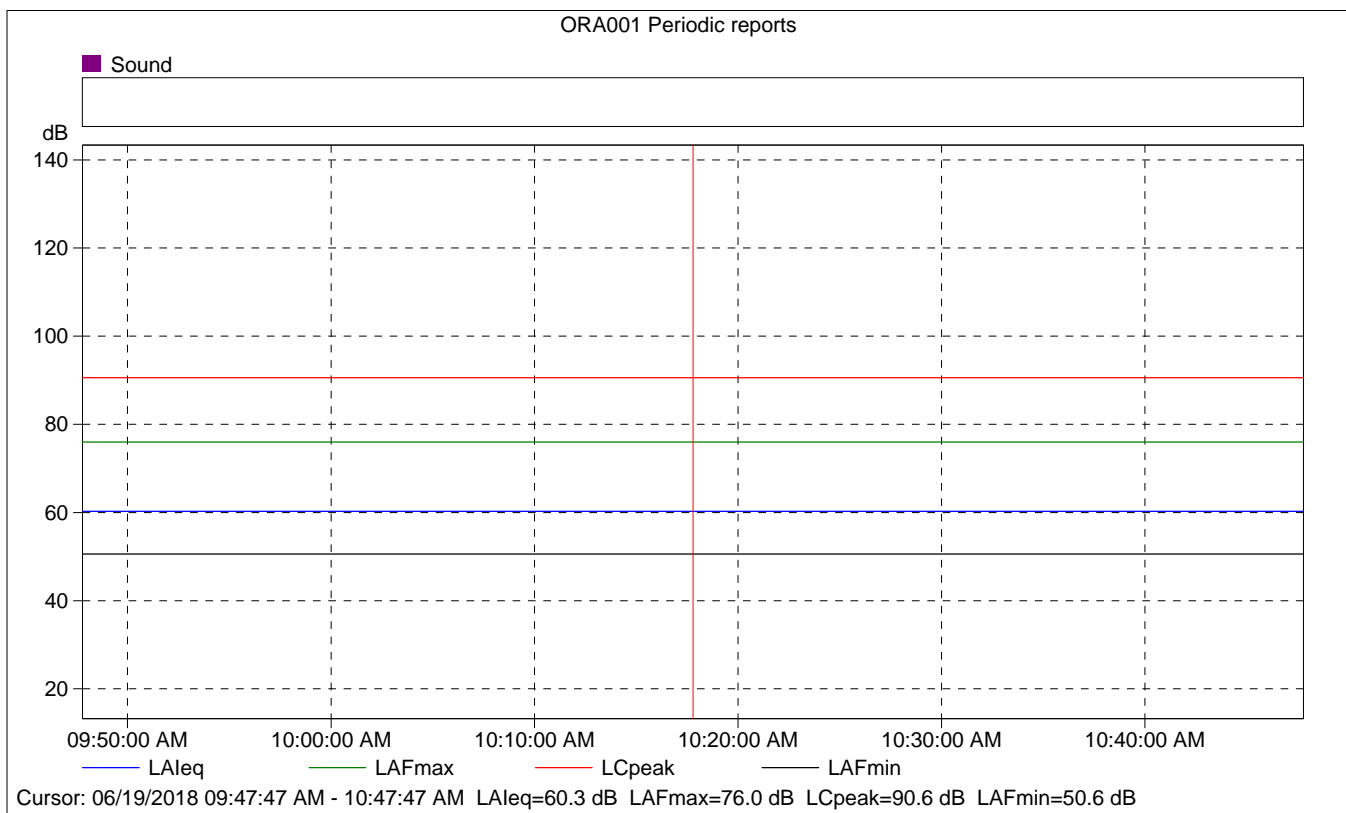
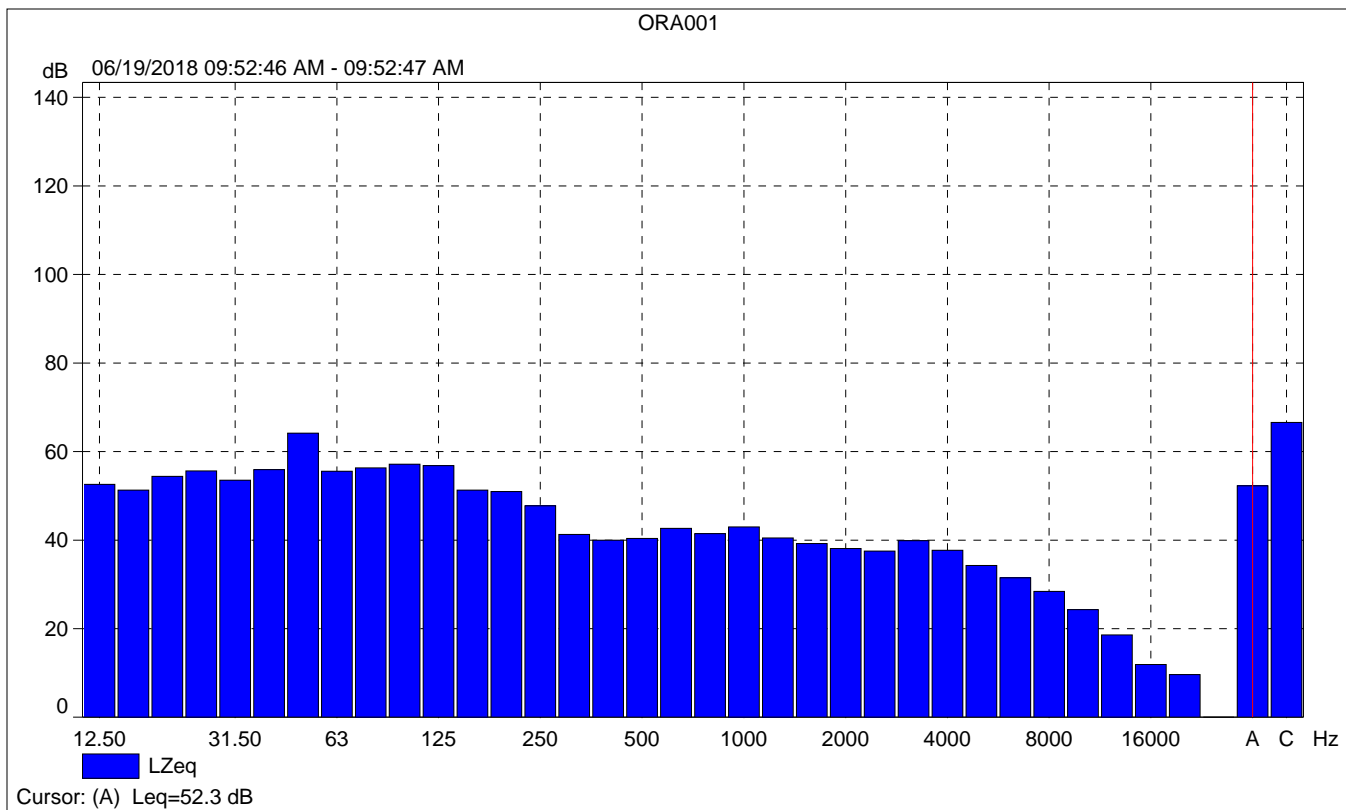
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	58.4	76.0	50.6
Time	09:47:47 AM	09:57:47 AM	0:10:00				
Date	06/19/2018	06/19/2018					





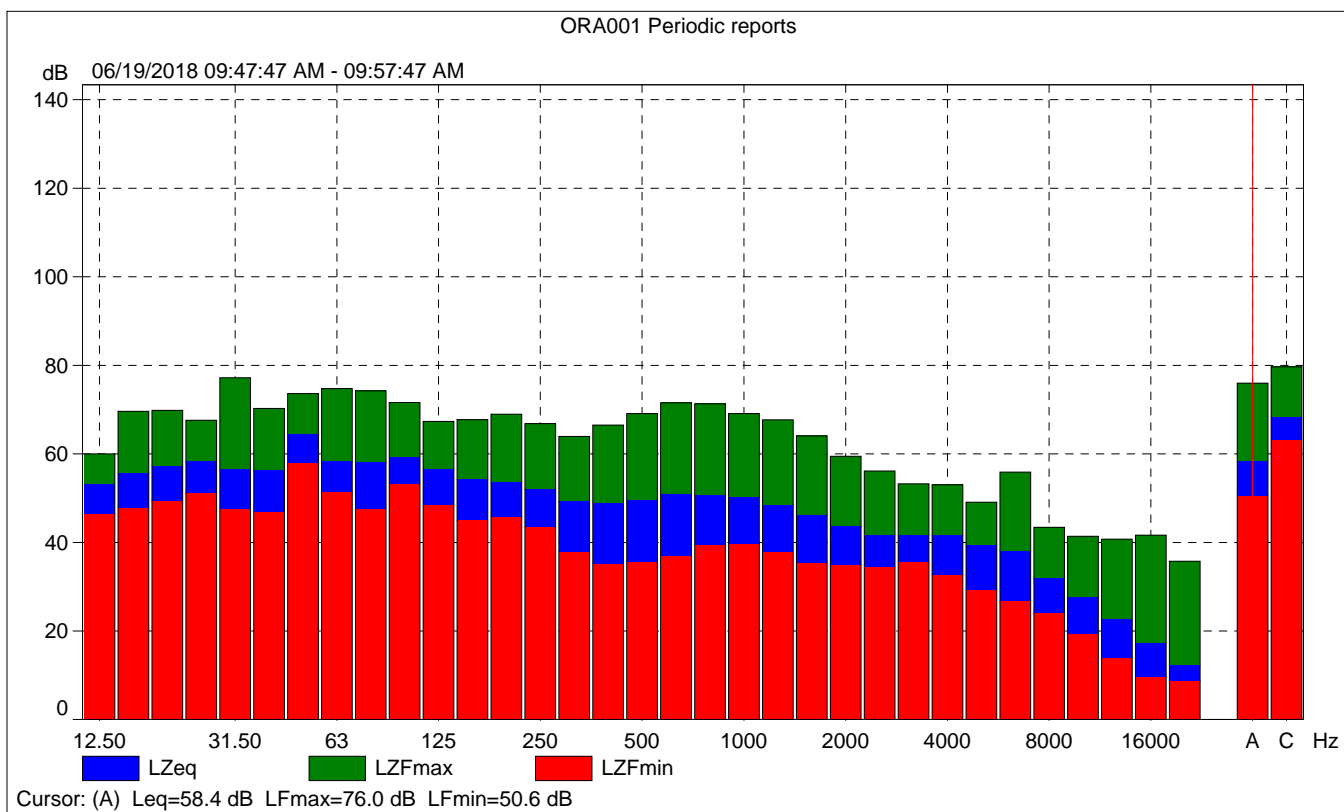
ORA001

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			54.9	53.2	51.5
Time	09:52:46 AM	0:00:01			
Date	06/19/2018				



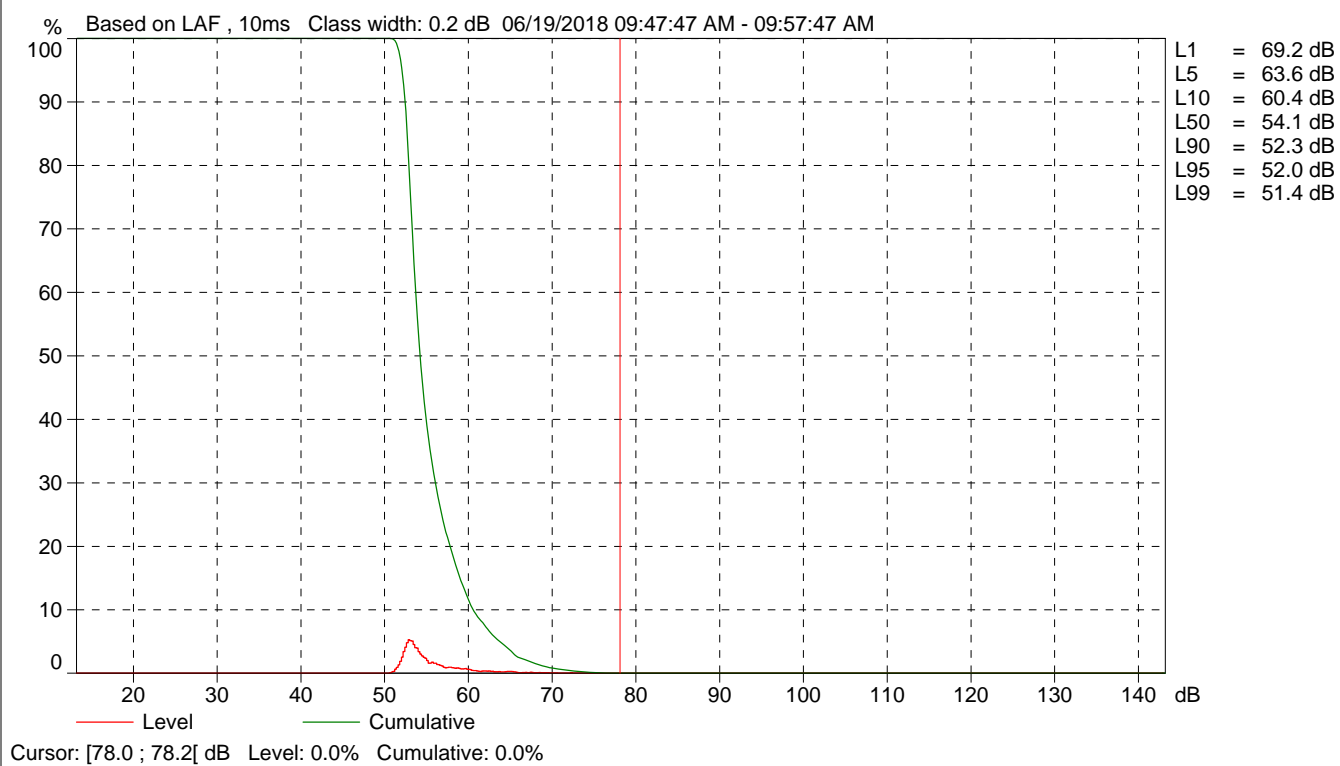
ORA001 Periodic reports

	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	60.3	76.0	50.6
Time	09:47:47 AM	0:10:00				
Date	06/19/2018					





ORA001 Periodic reports



Site Number: Orange Chick-fil-A Site #2			
Recorded By: Pierre Glaize			
Job Number: 166516			
Date: 06/19/18			
Time: 10:02 a.m.			
Location: Across project site, in-front of house #1433 West Almond Avenue.			
Source of Peak Noise: Construction adjacent to noise measurement, traffic on Almond Avenue.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
59.8	49.8	76.1	98.0

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: Sunny		
	Note: dBA Offset = 0.00			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	1		69		30.00	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		06/19/2018 10:01:07
End Time:		06/19/2018 10:11:07
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.05

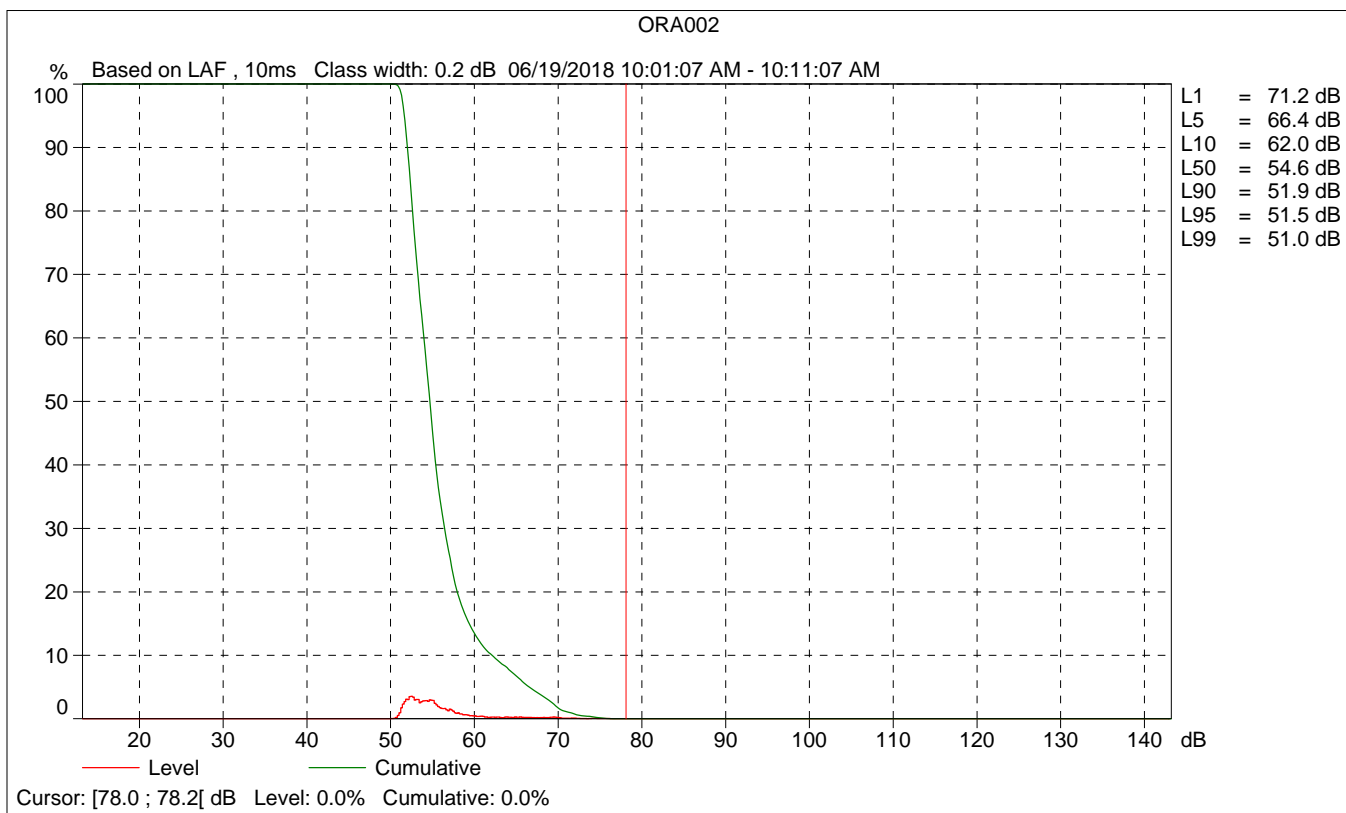
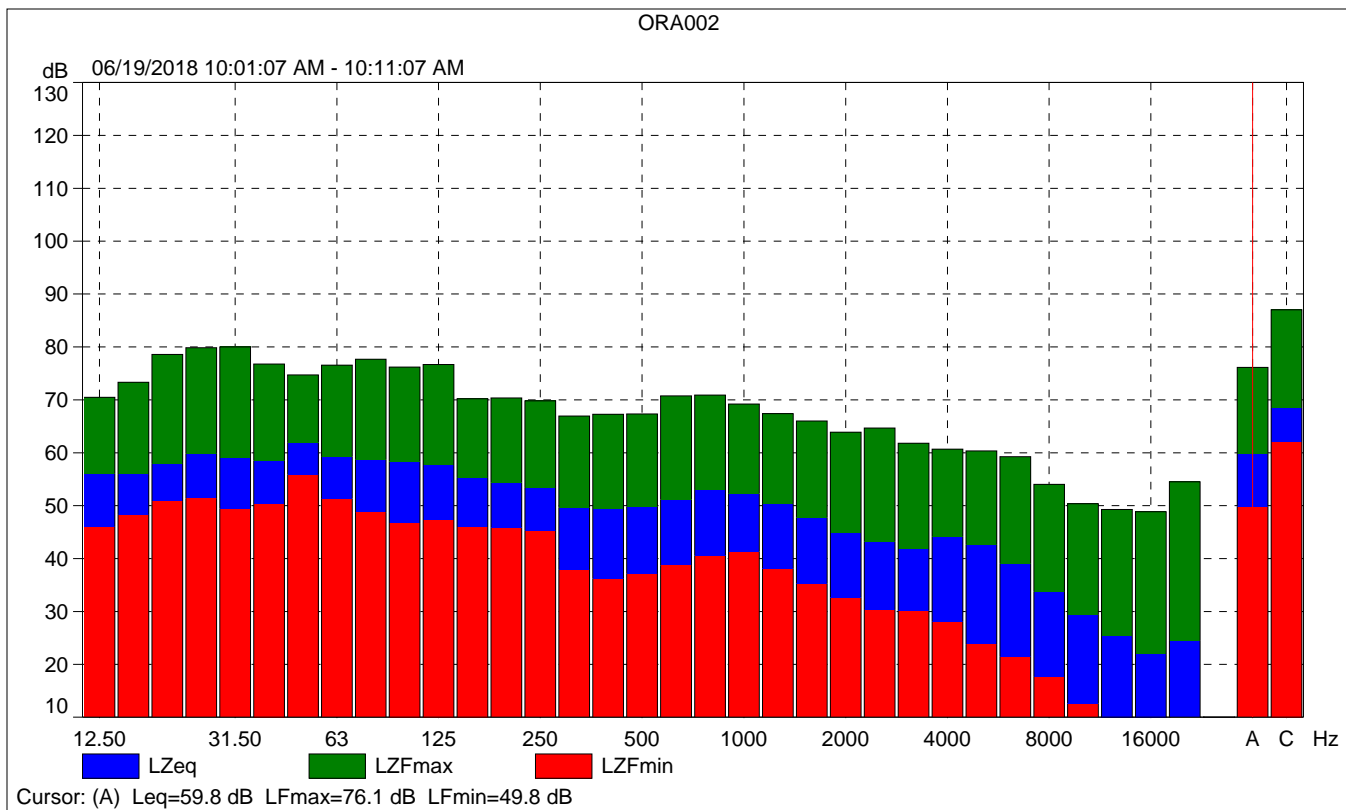
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

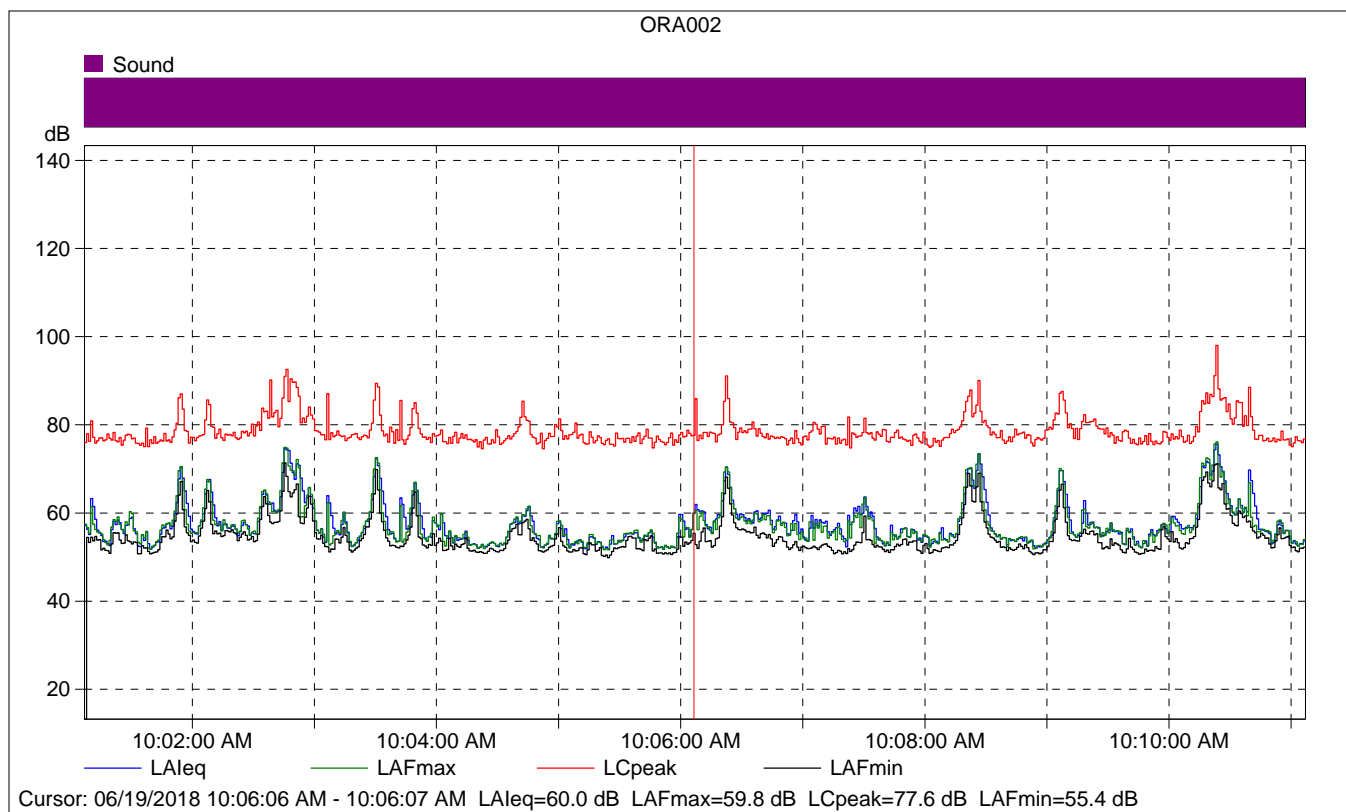
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		06/19/2018 08:41:52
Calibration Type:		External reference
Sensitivity:		43.9977012574673 mV/Pa

ORA002

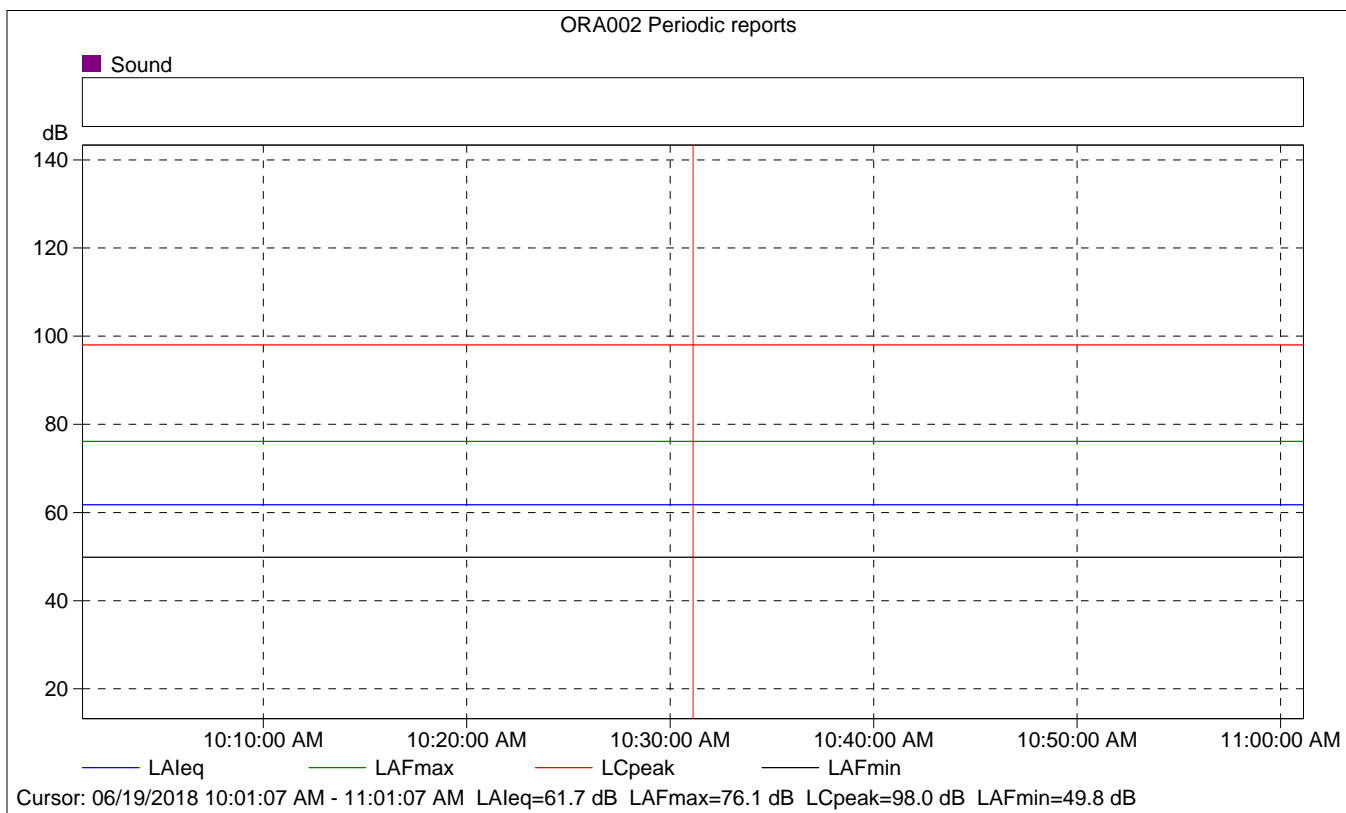
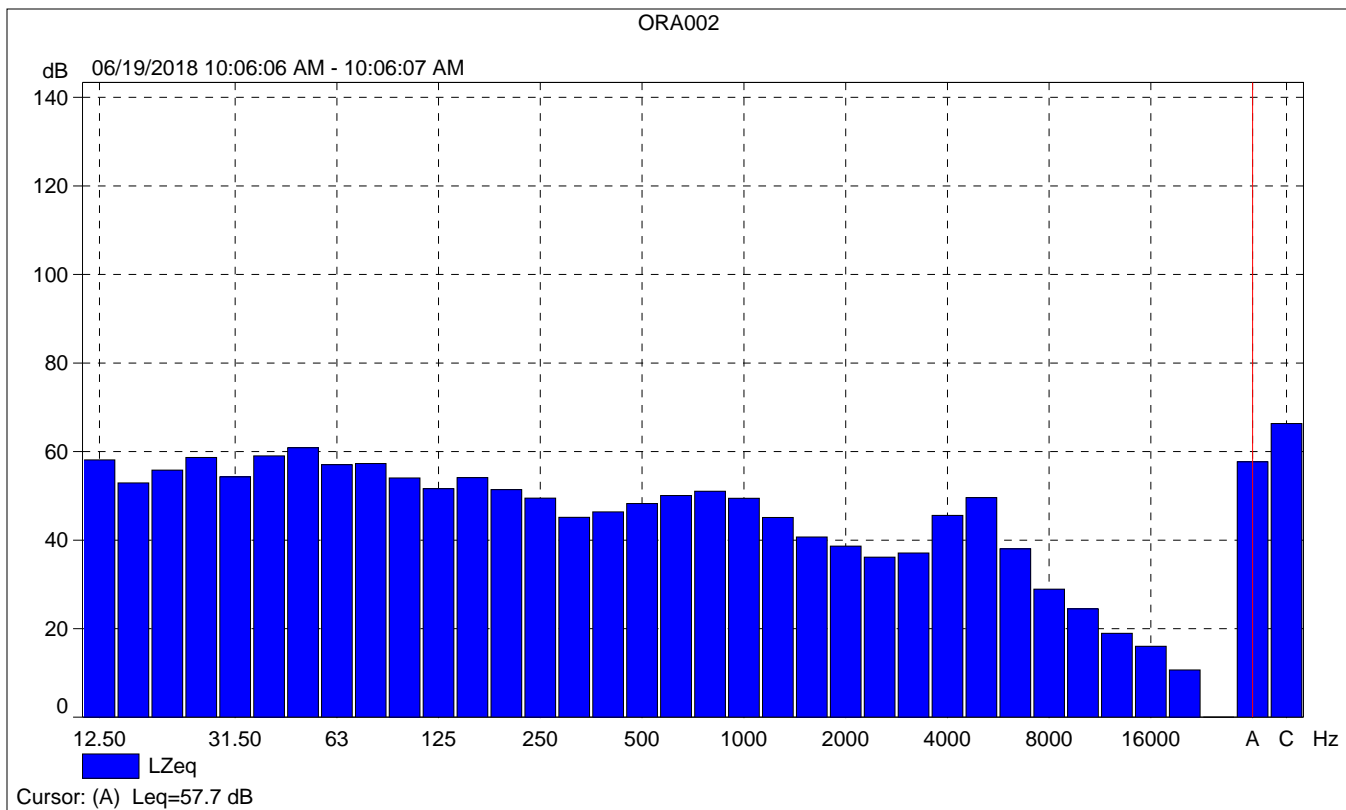
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	59.8	76.1	49.8
Time	10:01:07 AM	10:11:07 AM	0:10:00				
Date	06/19/2018	06/19/2018					





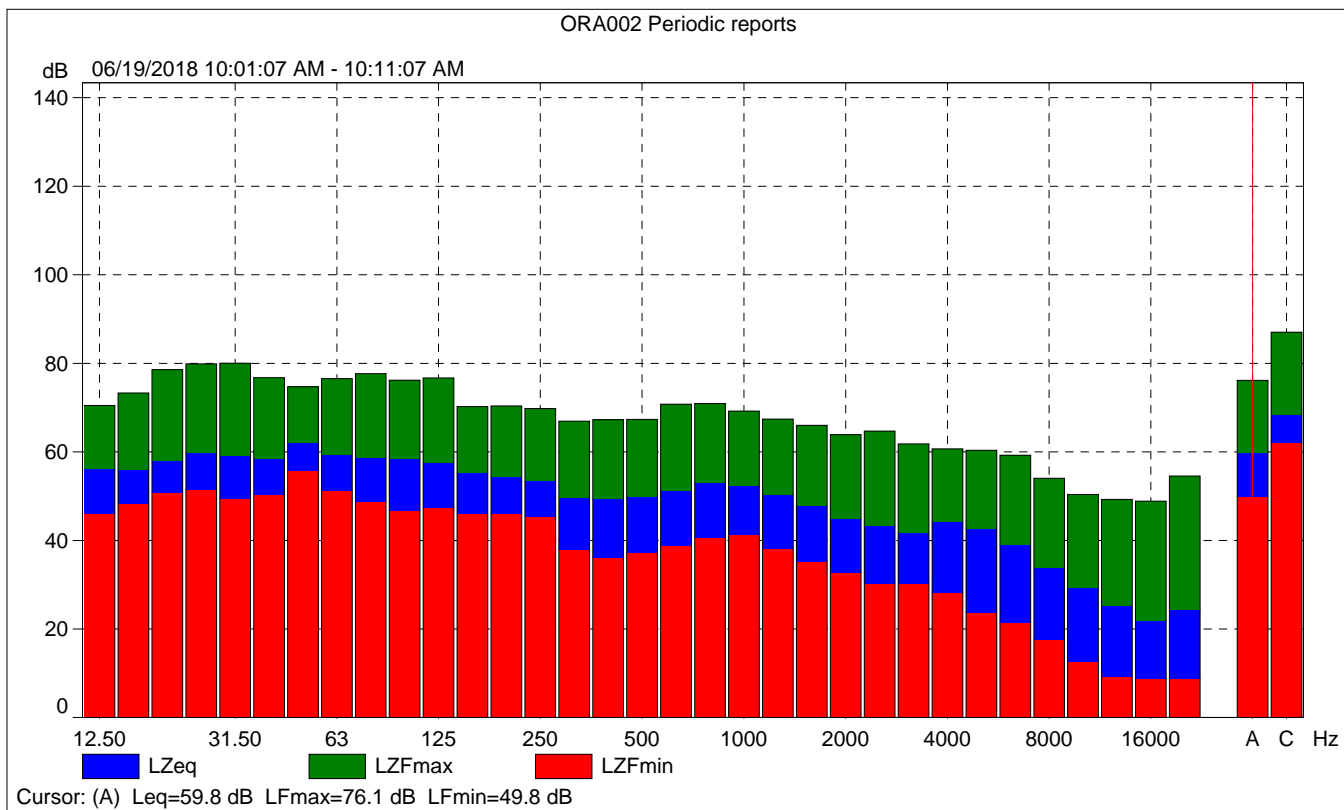
ORA002

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			60.0	59.8	55.4
Time	10:06:06 AM	0:00:01			
Date	06/19/2018				

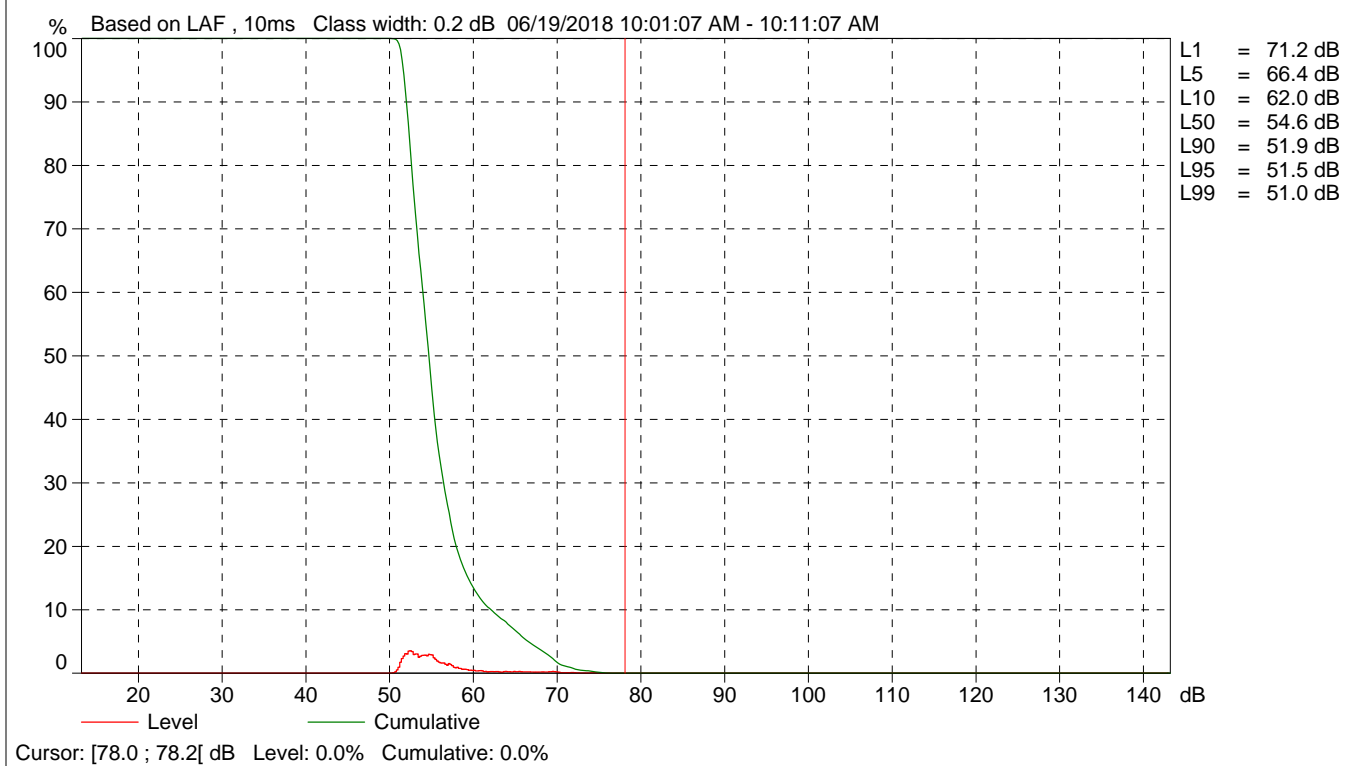


ORA002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	61.7	76.1	49.8
Time	10:01:07 AM	0:10:00				
Date	06/19/2018					



ORA002 Periodic reports



Site Number: Orange Chick-fil-A Site #3			
Recorded By: Pierre Glaize			
Job Number: 166516			
Date: 06/19/18			
Time: 10:15 a.m.			
Location: On-site on the western end, adjacent to wall by childcare building.			
Source of Peak Noise: Construction noise, children playing outside, traffic on almond, plane above.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
55.0	46.5	66.8	89.5

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: Sunny		
	Note: dBA Offset = 0.00			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	3		69		30.00	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		06/19/2018 10:14:28
End Time:		06/19/2018 10:24:28
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.05

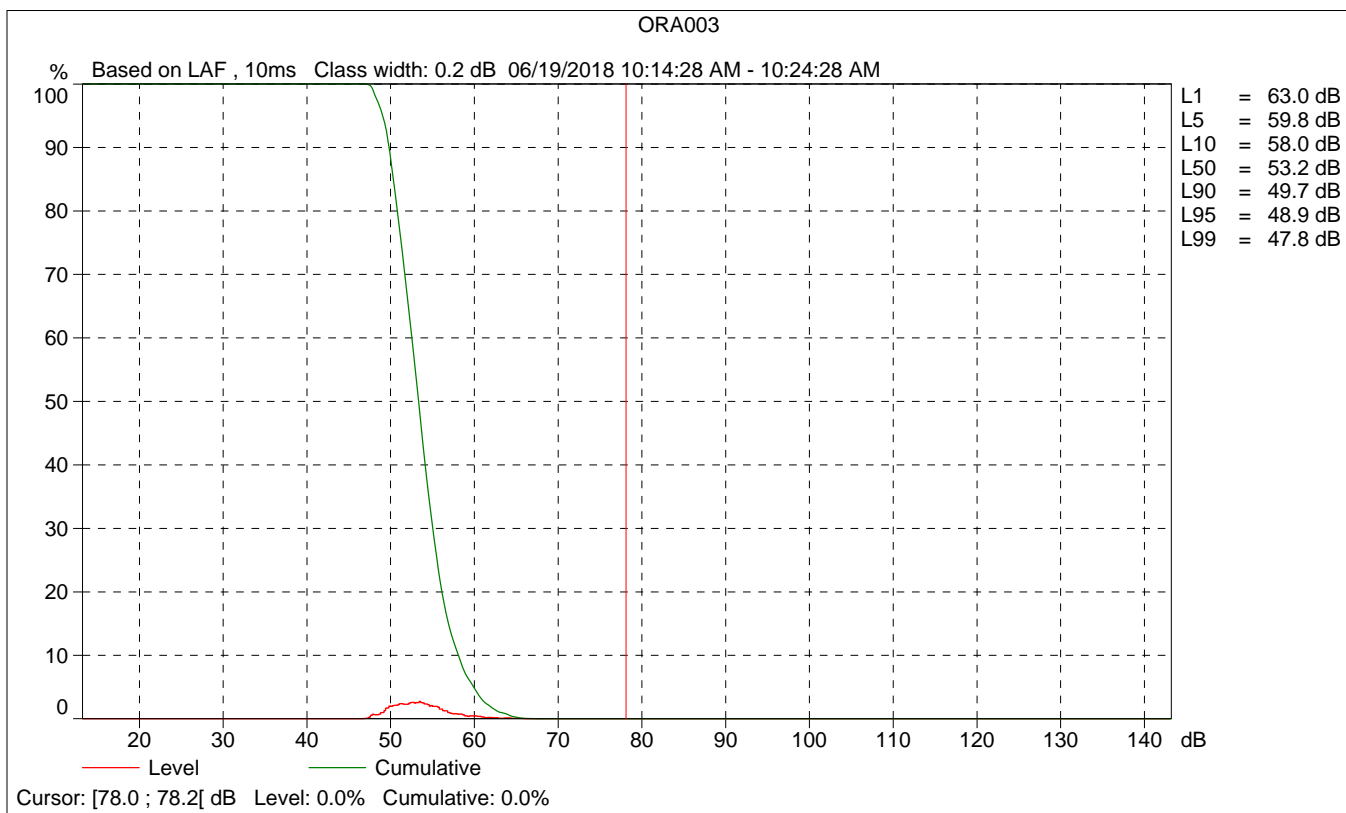
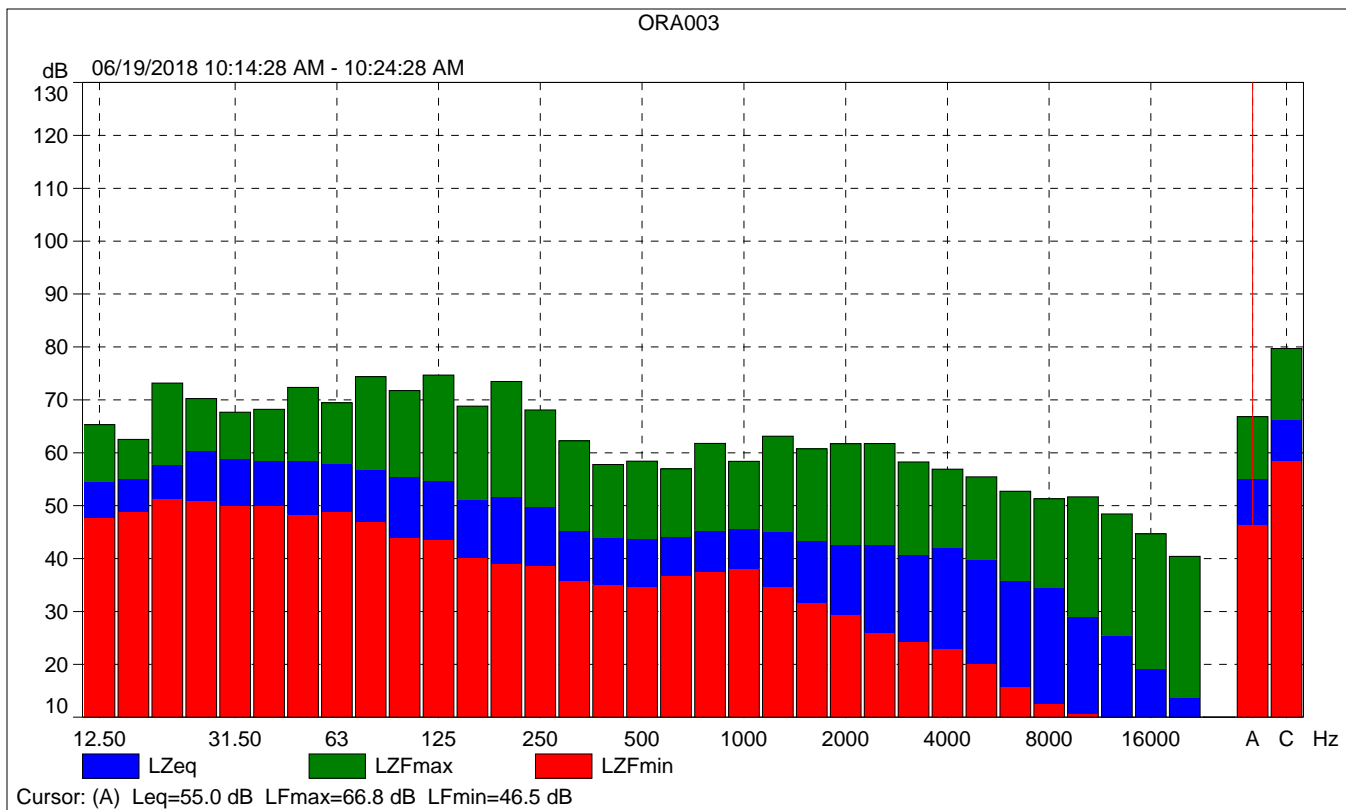
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

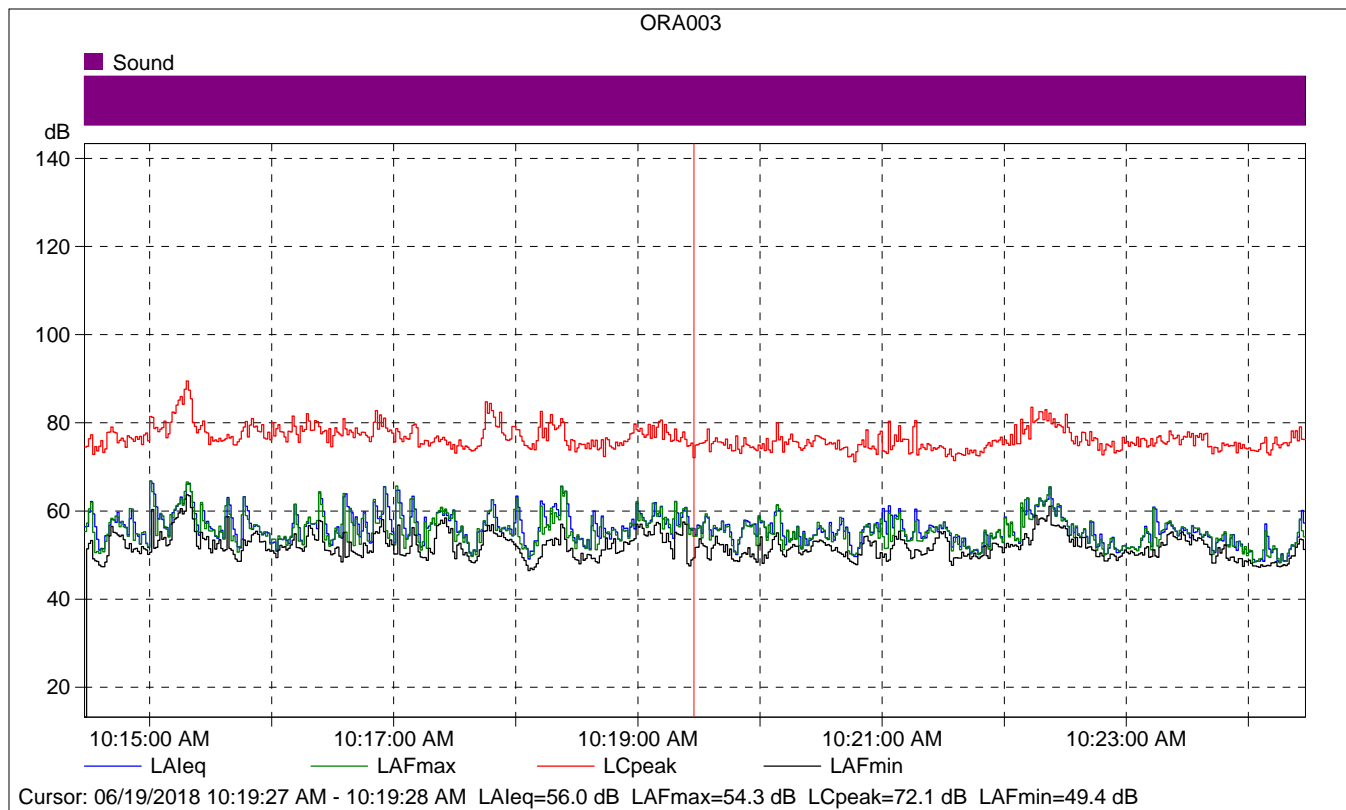
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		06/19/2018 08:41:52
Calibration Type:		External reference
Sensitivity:		43.9977012574673 mV/Pa

ORA003

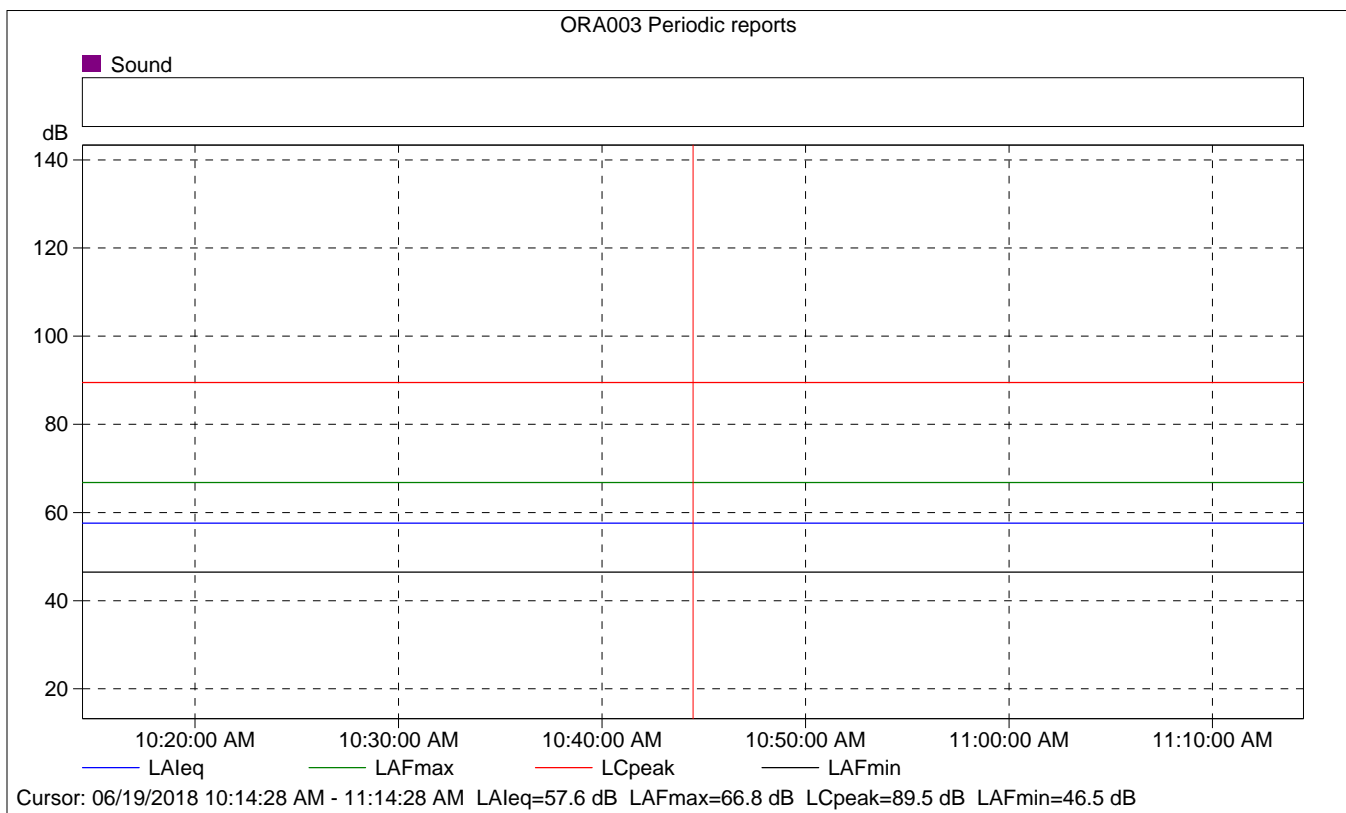
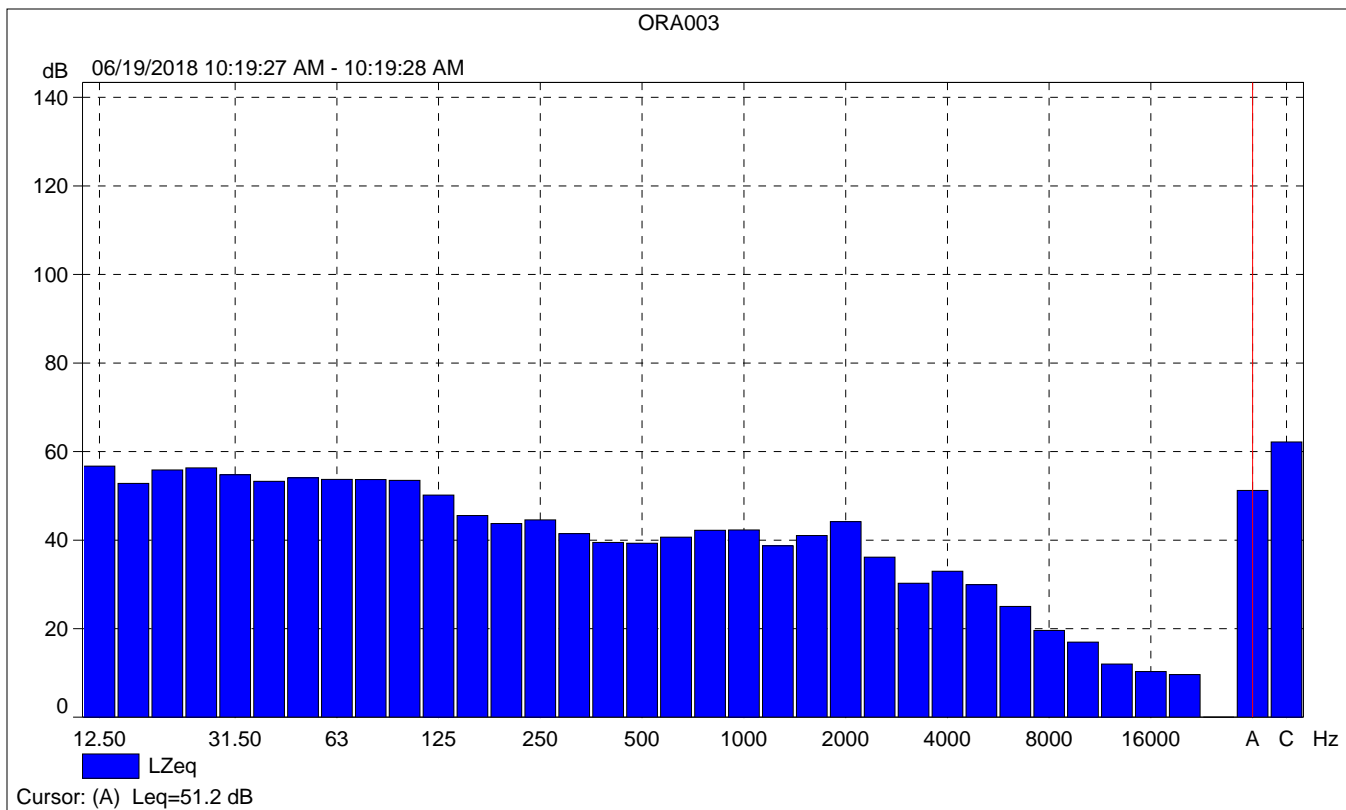
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	55.0	66.8	46.5
Time	10:14:28 AM	10:24:28 AM	0:10:00				
Date	06/19/2018	06/19/2018					





ORA003

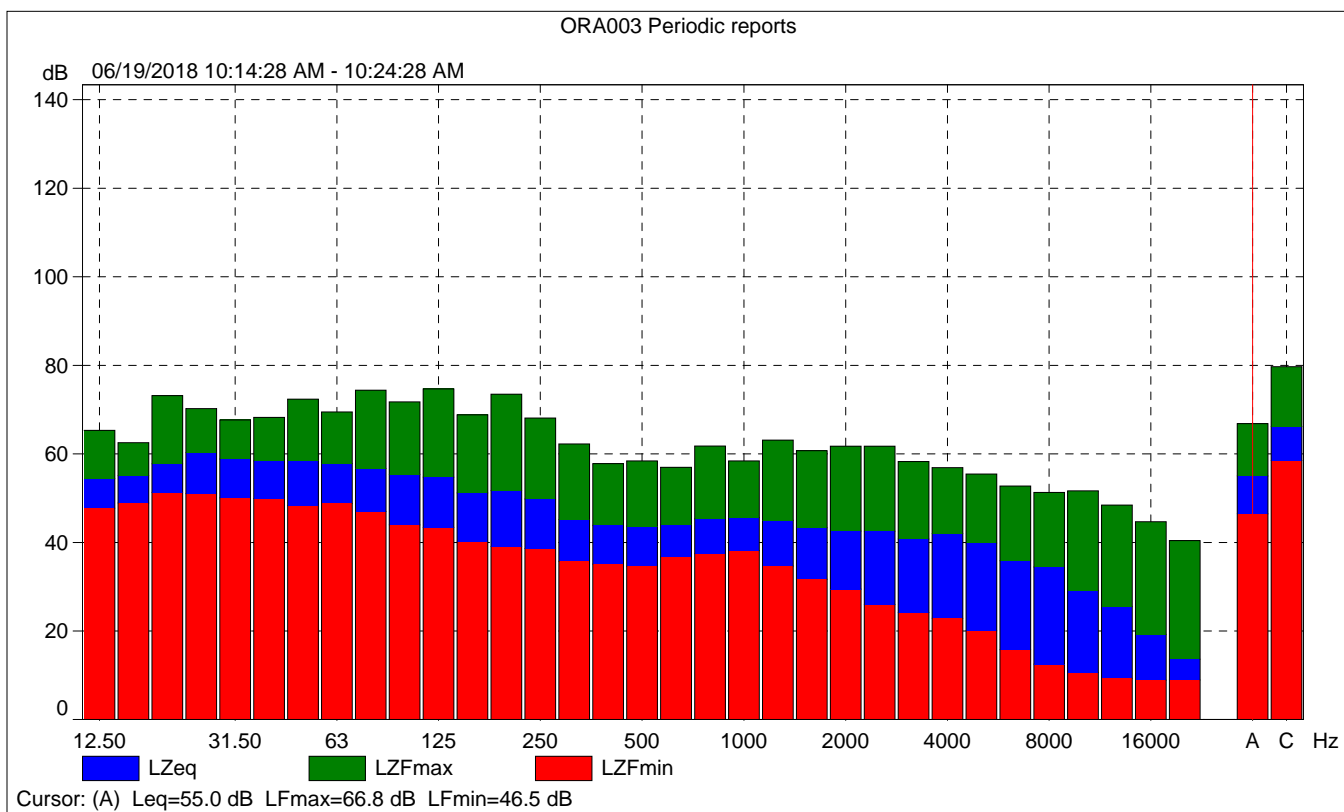
	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			56.0	54.3	49.4
Time	10:19:27 AM	0:00:01			
Date	06/19/2018				





ORA003 Periodic reports

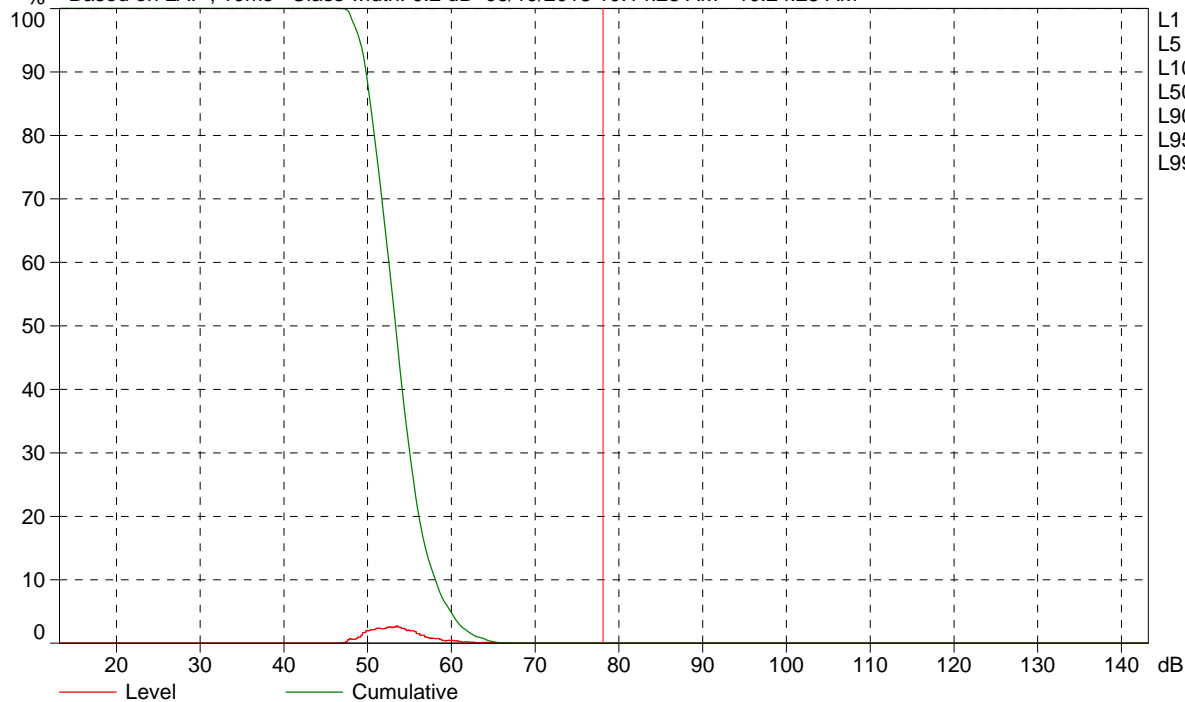
	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	57.6	66.8	46.5
Time	10:14:28 AM	0:10:00				
Date	06/19/2018					





ORA003 Periodic reports

% Based on LAF, 10ms Class width: 0.2 dB 06/19/2018 10:14:28 AM - 10:24:28 AM



- L1 = 63.0 dB
- L5 = 59.8 dB
- L10 = 58.0 dB
- L50 = 53.2 dB
- L90 = 49.7 dB
- L95 = 48.9 dB
- L99 = 47.8 dB

Cursor: [78.0 ; 78.2] dB Level: 0.0% Cumulative: 0.0%

Site Number: Orange Chick-fil-A Site #4			
Recorded By: Pierre Glaize			
Job Number: 166516			
Date: 06/19/18			
Time: 10:30 a.m.			
Location: On Almond Avenue, across mainstreet from project site, infront of house #1318			
Source of Peak Noise: Traffic on Almond and Main Street.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
58.1	47.4	72.4	91.7

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: Sunny		
	Note: dBA Offset = 0.00			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	4		71		30.00	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		06/19/2018 10:29:41
End Time:		06/19/2018 10:39:41
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.05

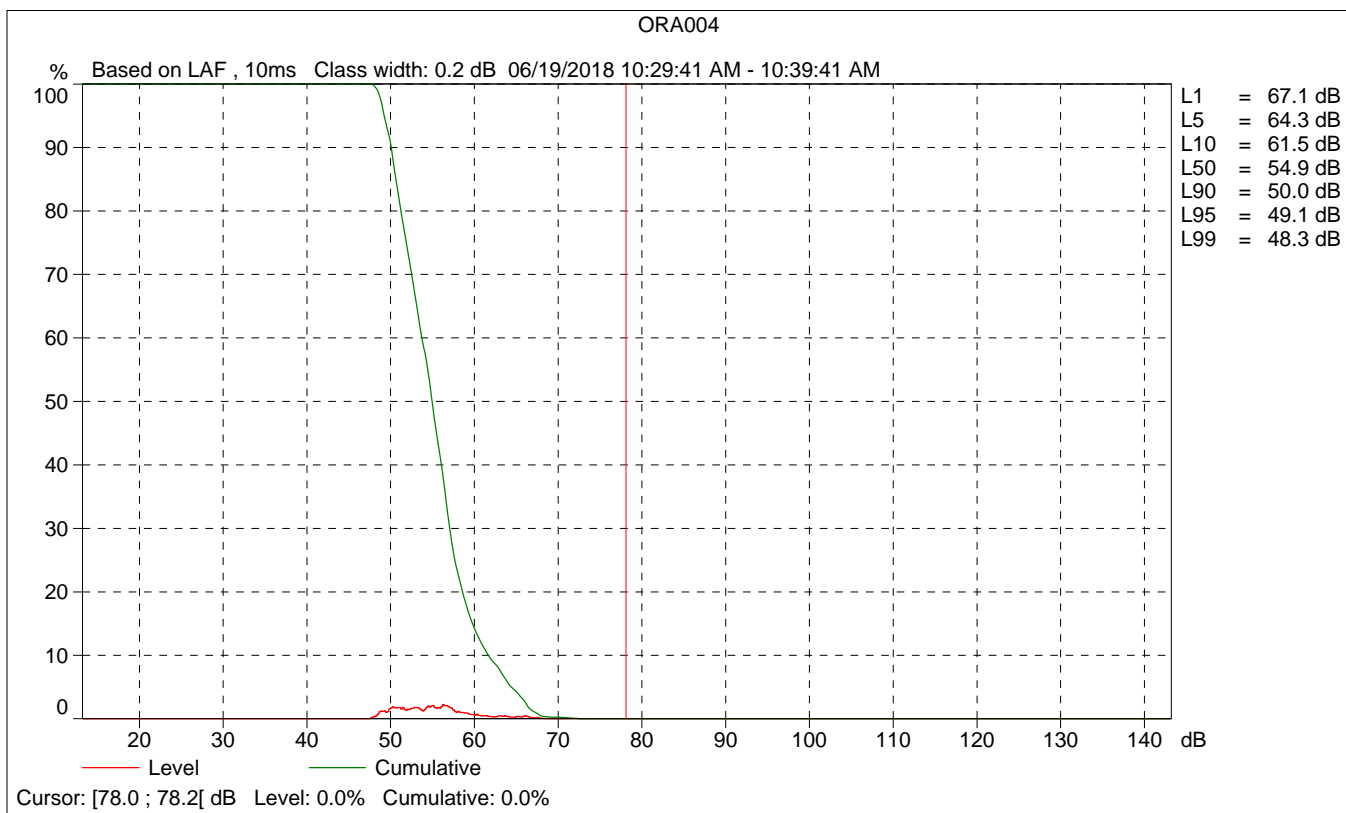
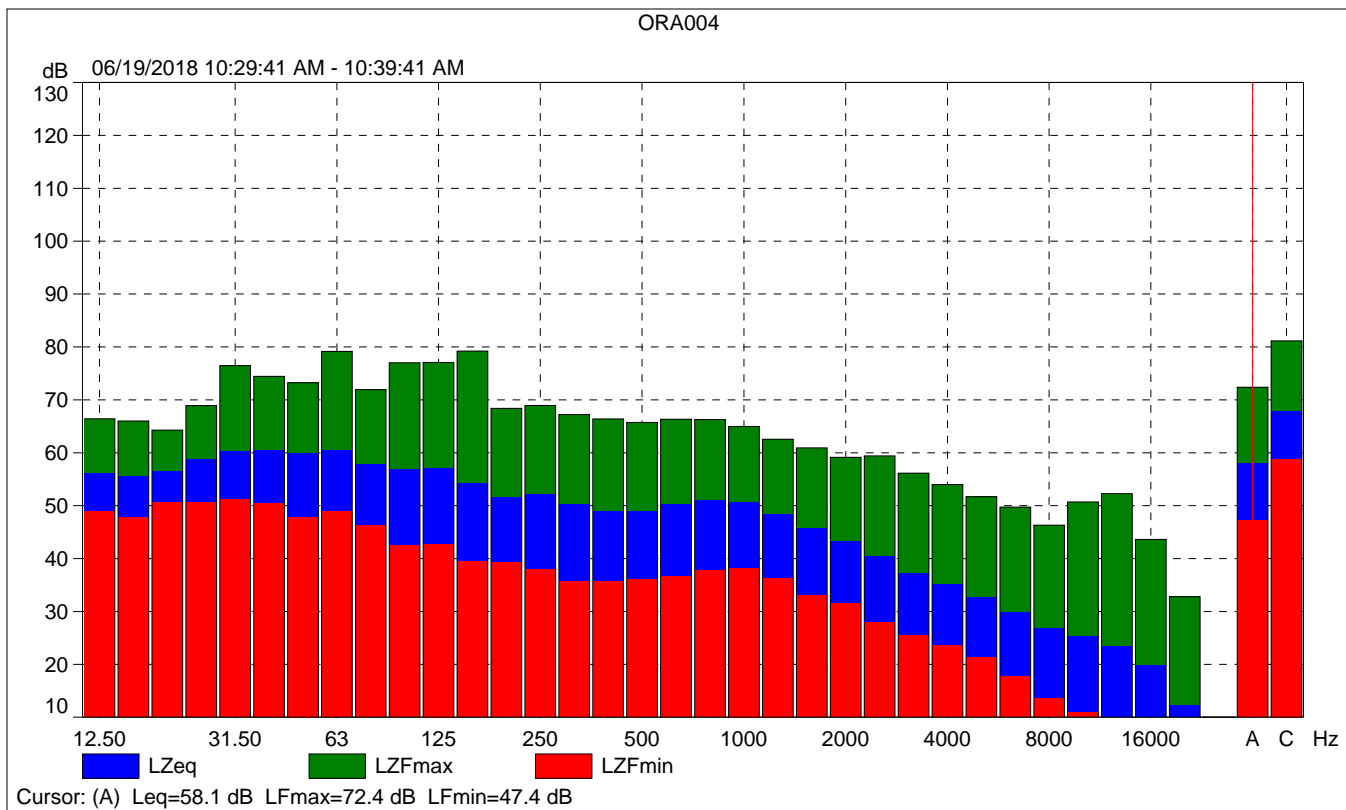
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

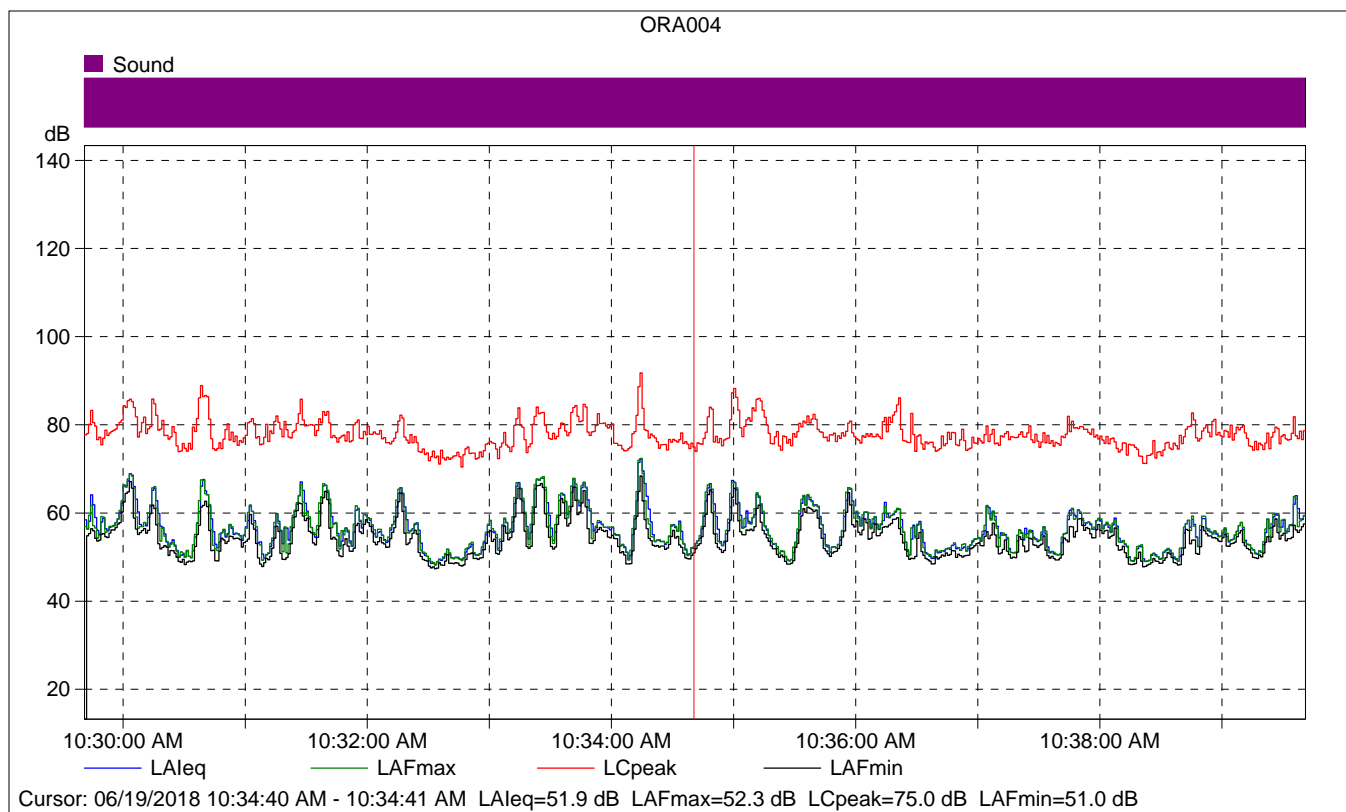
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		06/19/2018 08:41:52
Calibration Type:		External reference
Sensitivity:		43.9977012574673 mV/Pa

ORA004

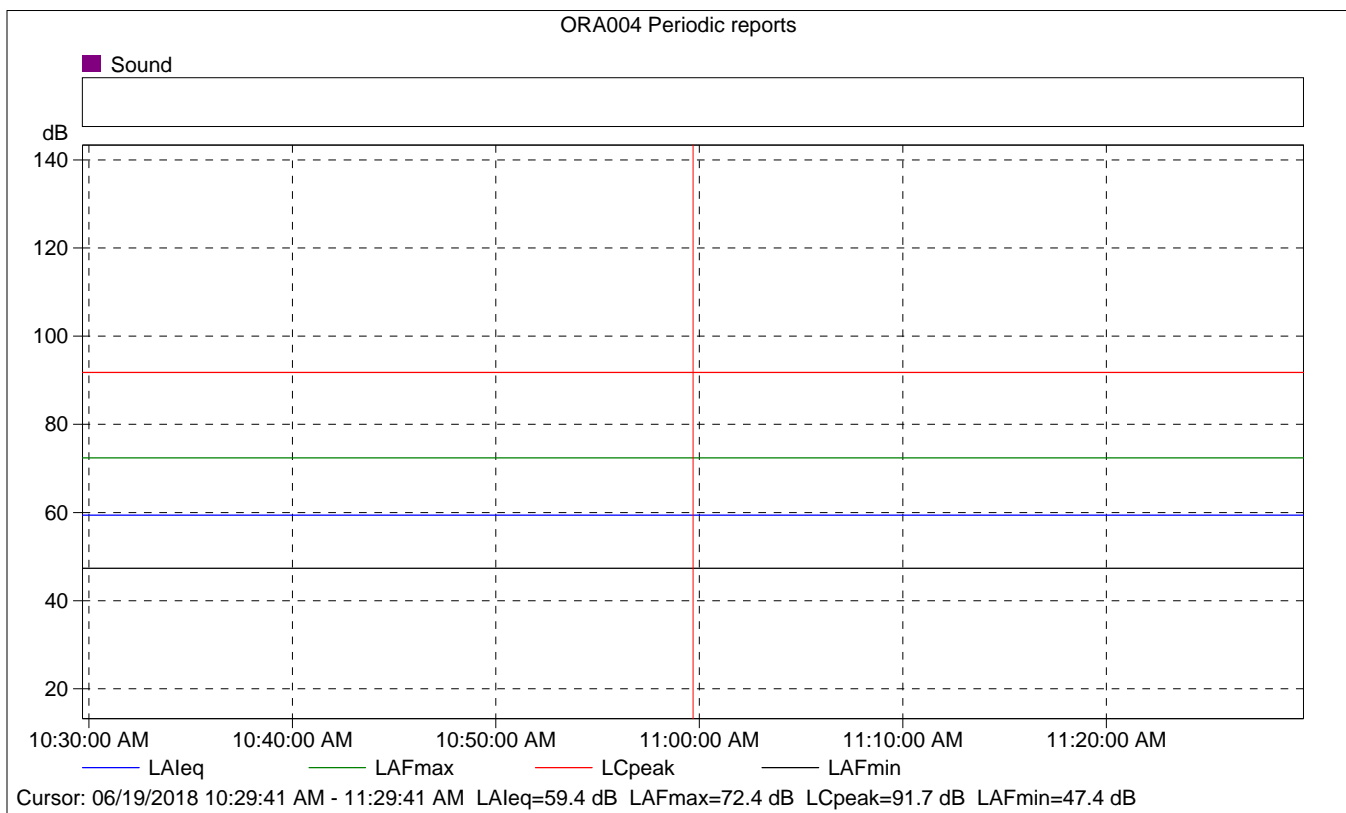
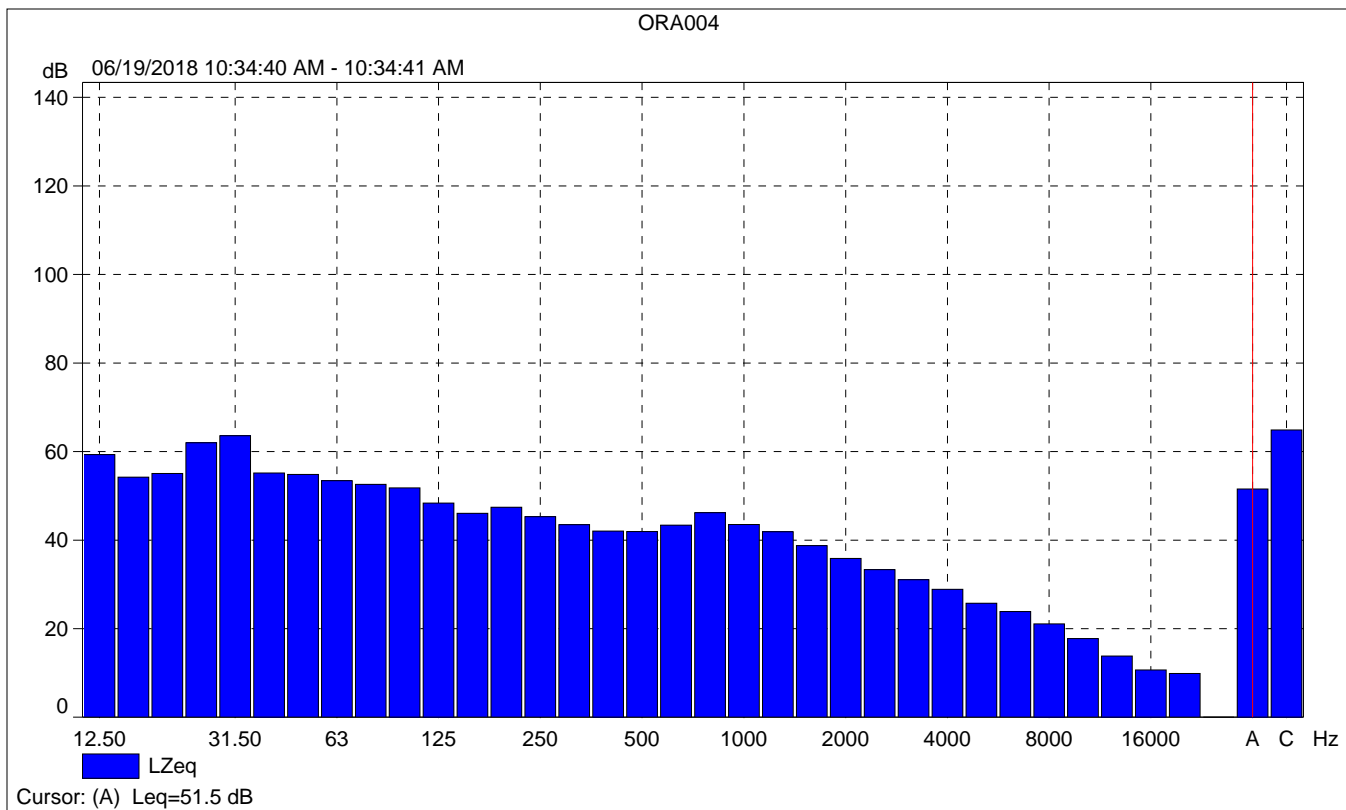
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	58.1	72.4	47.4
Time	10:29:41 AM	10:39:41 AM	0:10:00				
Date	06/19/2018	06/19/2018					





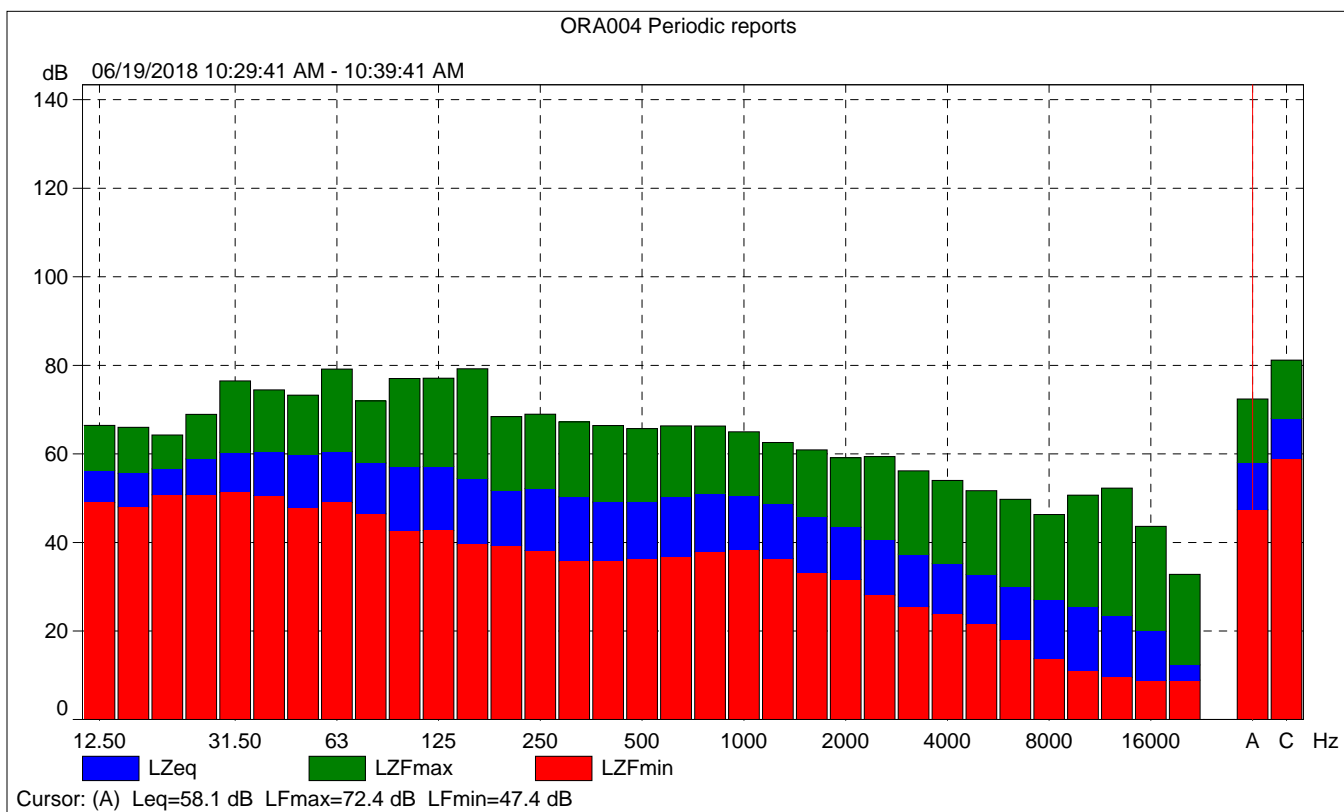
ORA004

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			51.9	52.3	51.0
Time	10:34:40 AM	0:00:01			
Date	06/19/2018				



ORA004 Periodic reports

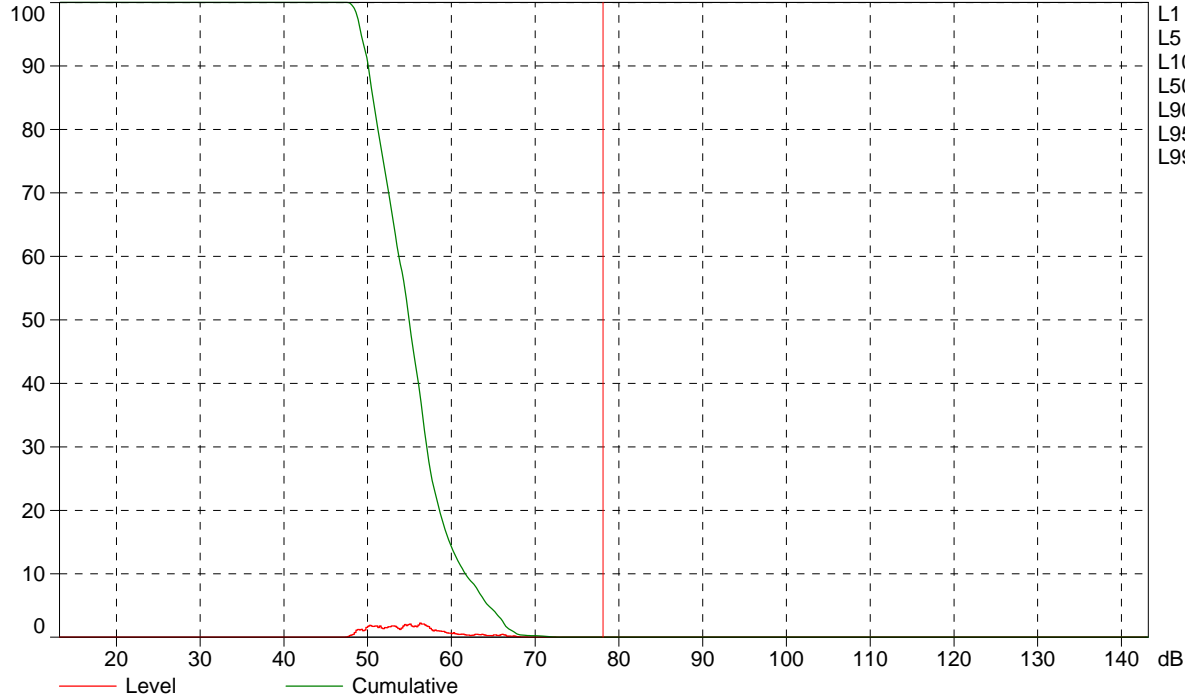
	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	59.4	72.4	47.4
Time	10:29:41 AM	0:10:00				
Date	06/19/2018					





ORA004 Periodic reports

% Based on LAF, 10ms Class width: 0.2 dB 06/19/2018 10:29:41 AM - 10:39:41 AM



- L1 = 67.1 dB
- L5 = 64.3 dB
- L10 = 61.5 dB
- L50 = 54.9 dB
- L90 = 50.0 dB
- L95 = 49.1 dB
- L99 = 48.3 dB

Cursor: [78.0 ; 78.2] dB Level: 0.0% Cumulative: 0.0%

**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

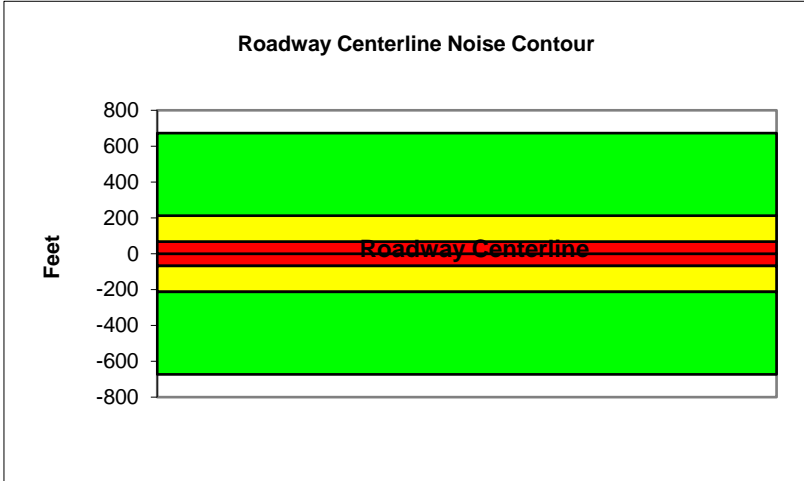
Project Name:	Orange Chick-fil-A	Scenario:	Existing
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Main Street		
Road Segment:	Chapman Avenue to Almond Avenue		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	28698			
Receiver Barrier Dist:	0	Peak Hour Traffic:	2869.8			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	50			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	55.9	64.6	62.8	56.8	65.4	66.0
Medium Trucks:	64.8	56.7	50.4	48.8	57.3	57.5
Heavy Trucks:	69.7	57.7	48.7	49.9	59.6	59.7
Vehicle Noise:	72.0	66.2	63.3	58.3	66.9	67.4

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	673
65 dBA	213
70 dBA	67
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

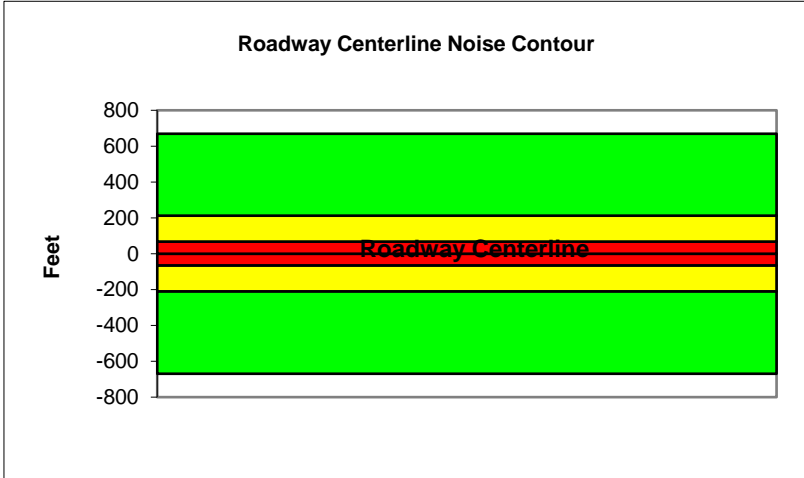
Project Name:	Orange Chick-fil-A	Scenario:	Existing
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Main Street		
Road Segment:	Almond Avenue to Palmyra Avenue		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	28578			
Receiver Barrier Dist:	0	Peak Hour Traffic:	2857.8			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	45			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	55.9	64.7	62.9	56.8	65.5	66.1
Medium Trucks:	64.9	56.8	50.4	48.8	57.3	57.6
Heavy Trucks:	69.7	57.8	48.7	49.9	59.6	59.8
Vehicle Noise:	72.1	66.3	63.3	58.4	67.0	67.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	669
65 dBA	212
70 dBA	67
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

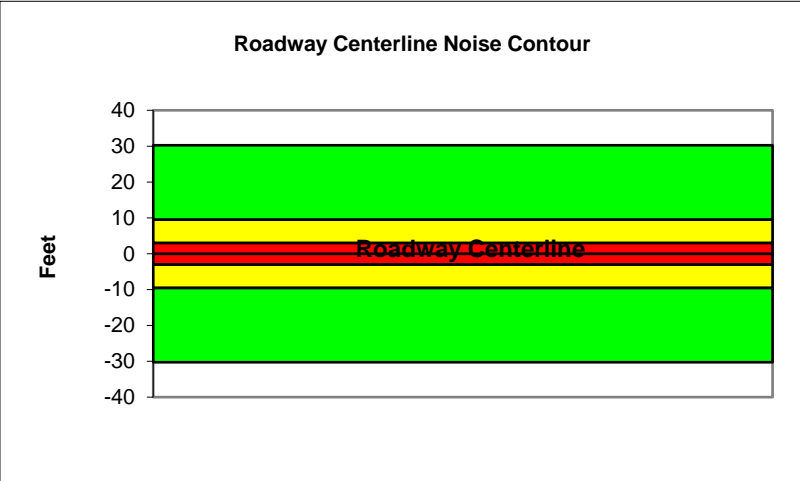
Project Name:	Orange Chick-fil-A	Scenario:	Existing
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Almond Avenue		
Road Segment:	Feldner Road to Main Street		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	2453			
Receiver Barrier Dist:	0	Peak Hour Traffic:	245.3			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	41.7	50.5	48.7	42.6	51.3	51.9
Medium Trucks:	52.3	44.3	37.9	36.3	44.8	45.0
Heavy Trucks:	58.0	46.0	37.0	38.2	48.3	48.5
Vehicle Noise:	60.5	53.0	49.4	45.1	53.7	54.1

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	30
65 dBA	10
70 dBA	3
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

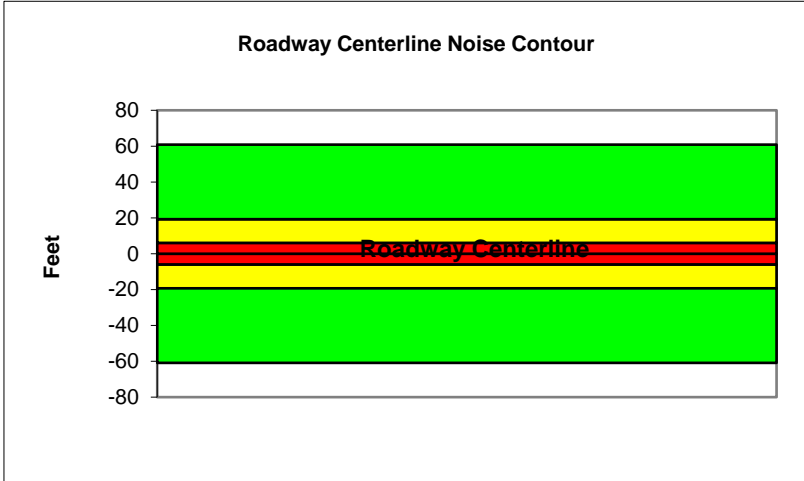
Project Name:	Orange Chick-fil-A	Scenario:	Existing
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Almond Avenue		
Road Segment:	Main Street to Batavia Street		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	7093			
Receiver Barrier Dist:	0	Peak Hour Traffic:	709.3			
Centerline Dist. To Observer:	100	Vehicle Speed:	25			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	44.1	52.8	51.0	45.0	53.6	54.2
Medium Trucks:	55.7	47.6	41.3	39.7	48.2	48.4
Heavy Trucks:	61.9	49.9	40.9	42.1	52.5	52.6
Vehicle Noise:	64.5	56.1	52.0	48.2	56.7	57.1

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	61
65 dBA	19
70 dBA	6
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

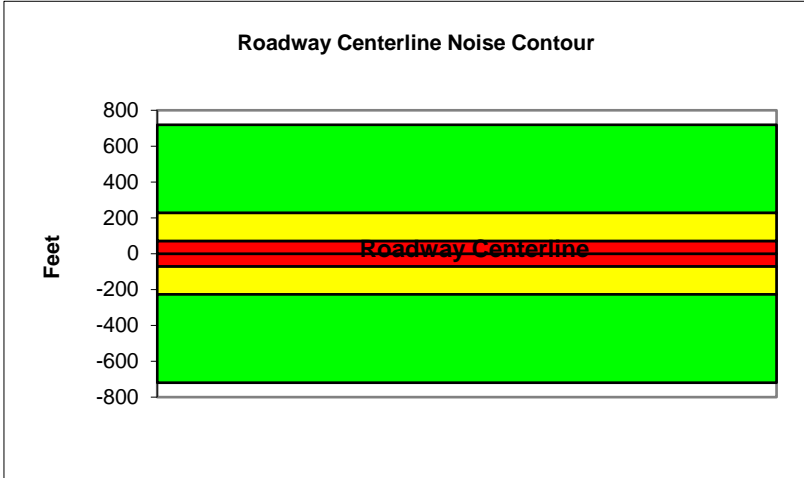
Project Name:	Orange Chick-fil-A	Scenario:	Future
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Main Street		
Road Segment:	Chapman Avenue to Almond Avenue		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	30676			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3067.6			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	50			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.1	64.9	63.1	57.1	65.7	66.3
Medium Trucks:	65.1	57.0	50.6	49.1	57.6	57.8
Heavy Trucks:	69.9	58.0	48.9	50.2	59.9	60.0
Vehicle Noise:	72.3	66.5	63.6	58.6	67.2	67.7

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	720
65 dBA	228
70 dBA	72
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

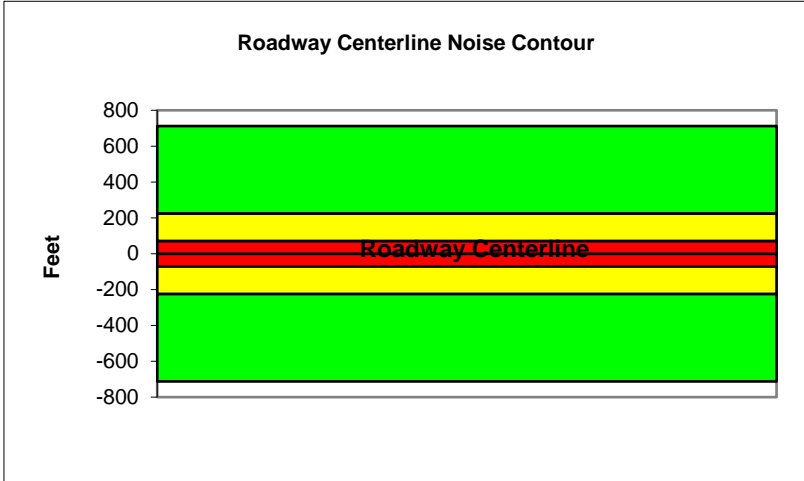
Project Name:	Orange Chick-fil-A	Scenario:	Future
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Main Street		
Road Segment:	Almond Avenue to Palmyra Avenue		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	30413			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3041.3			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	45			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.2	65.0	63.2	57.1	65.7	66.3
Medium Trucks:	65.1	57.1	50.7	49.1	57.6	57.8
Heavy Trucks:	70.0	58.0	49.0	50.2	59.9	60.0
Vehicle Noise:	72.4	66.5	63.6	58.7	67.2	67.7

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	712
65 dBA	225
70 dBA	71
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

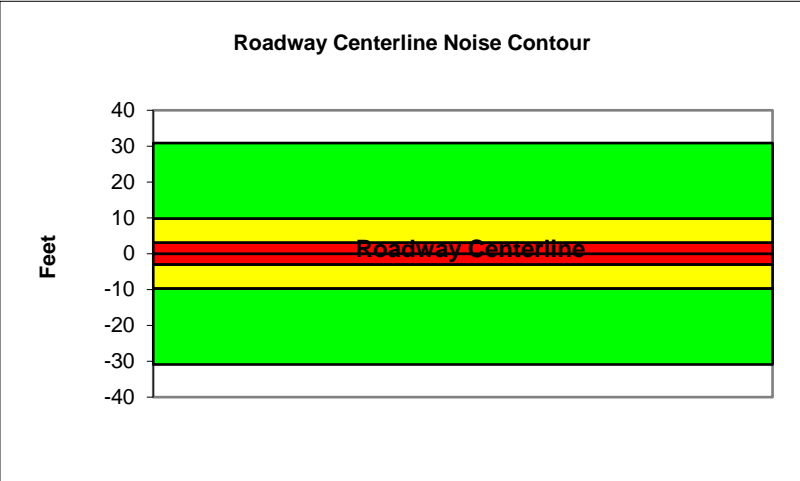
Project Name:	Orange Chick-fil-A	Scenario:	Future
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Almond Avenue		
Road Segment:	Feldner Road to Main Street		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	2502			
Receiver Barrier Dist:	0	Peak Hour Traffic:	250.2			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	41.8	50.6	48.8	42.7	51.4	52.0
Medium Trucks:	52.4	44.3	38.0	36.4	44.9	45.1
Heavy Trucks:	58.1	46.1	37.1	38.3	48.4	48.5
Vehicle Noise:	60.6	53.1	49.5	45.2	53.7	54.2

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	31
65 dBA	10
70 dBA	3
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

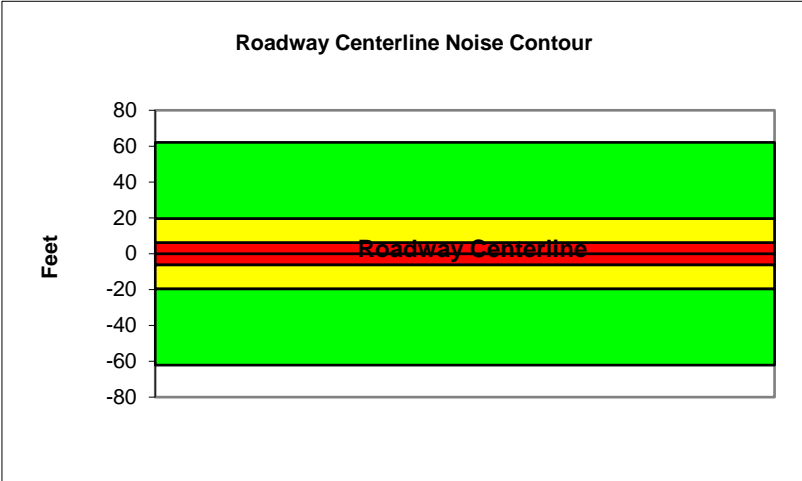
Project Name:	Orange Chick-fil-A	Scenario:	Future
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Almond Avenue		
Road Segment:	Main Street to Batavia Street		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	7235			
Receiver Barrier Dist:	0	Peak Hour Traffic:	723.5			
Centerline Dist. To Observer:	100	Vehicle Speed:	25			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	44.1	52.9	51.1	45.0	53.7	54.3
Medium Trucks:	55.8	47.7	41.3	39.8	48.3	48.5
Heavy Trucks:	61.9	50.0	40.9	42.2	52.6	52.7
Vehicle Noise:	64.6	56.2	52.1	48.3	56.8	57.2

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	62
65 dBA	20
70 dBA	6
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

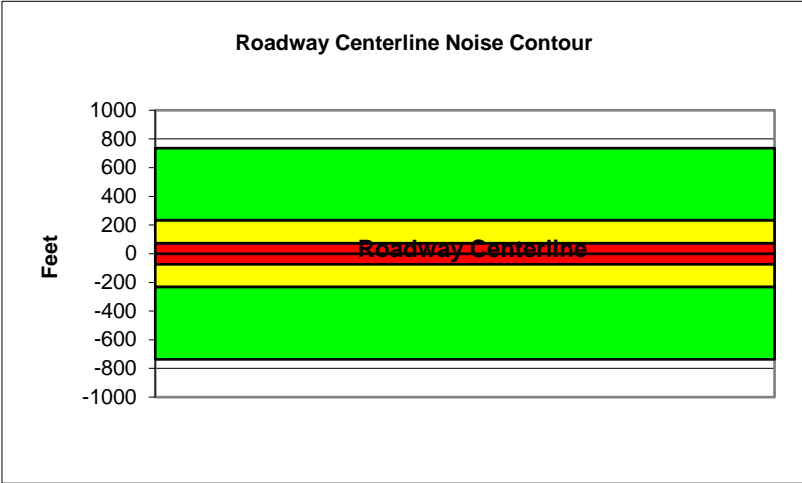
Project Name:	Orange Chick-fil-A	Scenario:	Future Plus Project
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Main Street		
Road Segment:	Chapman Avenue to Almond Avenue		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	31442			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3144.2			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	50			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.2	65.0	63.2	57.2	65.8	66.4
Medium Trucks:	65.2	57.1	50.8	49.2	57.7	57.9
Heavy Trucks:	70.0	58.1	49.1	50.3	60.0	60.1
Vehicle Noise:	72.4	66.6	63.7	58.7	67.3	67.8

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	736
65 dBA	233
70 dBA	74
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

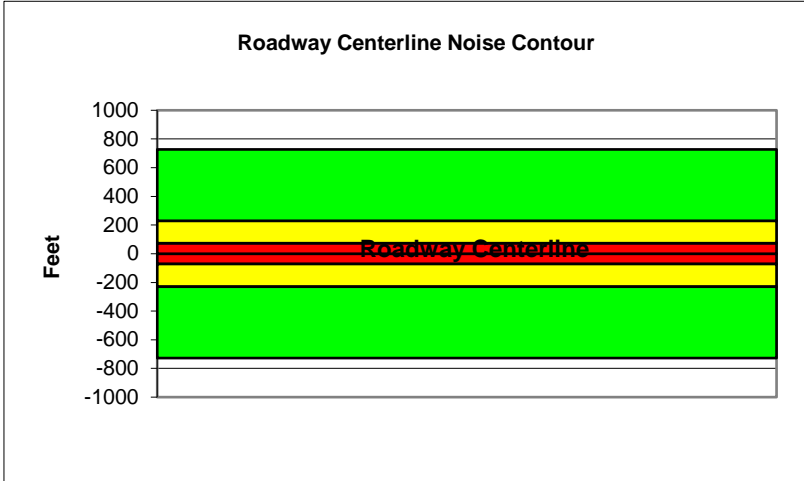
Project Name:	Orange Chick-fil-A	Scenario:	Future Plus Project
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Main Street		
Road Segment:	Almond Avenue to Palmyra Avenue		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	31058			
Receiver Barrier Dist:	0	Peak Hour Traffic:	3105.8			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	45			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	56.3	65.0	63.3	57.2	65.8	66.4
Medium Trucks:	65.2	57.2	50.8	49.2	57.7	57.9
Heavy Trucks:	70.1	58.1	49.1	50.3	60.0	60.1
Vehicle Noise:	72.4	66.6	63.7	58.8	67.3	67.8

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	727
65 dBA	230
70 dBA	73
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

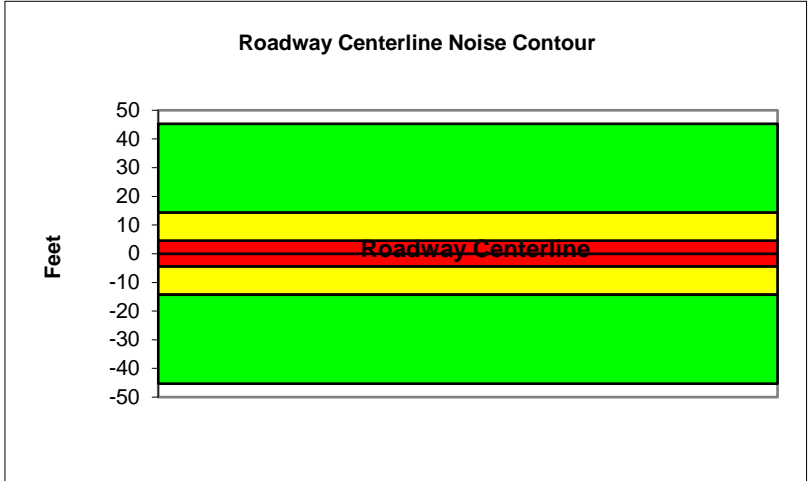
Project Name:	Orange Chick-fil-A	Scenario:	Future Plus Project
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Almond Avenue		
Road Segment:	Feldner Road to Main Street		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	3671			
Receiver Barrier Dist:	0	Peak Hour Traffic:	367.1			
Centerline Dist. To Observer:	100	Vehicle Speed:	30			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	43.5	52.3	50.5	44.4	53.0	53.6
Medium Trucks:	54.1	46.0	39.6	38.1	46.5	46.8
Heavy Trucks:	59.7	47.8	38.7	39.9	50.1	50.2
Vehicle Noise:	62.3	54.7	51.2	46.9	55.4	55.8

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	45
65 dBA	14
70 dBA	5
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

Project Name:	Orange Chick-fil-A	Scenario:	Future Plus Project
Analyst:	Danielle Regimbal	Job #:	166516
Roadway:	Almond Avenue		
Road Segment:	Main Street to Batavia Street		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	7396			
Receiver Barrier Dist:	0	Peak Hour Traffic:	739.6			
Centerline Dist. To Observer:	100	Vehicle Speed:	25			
Barrier Near Lane CL Dist:	0	Centerline Separation:	40			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	44.2	53.0	51.2	45.1	53.8	54.4
Medium Trucks:	55.9	47.8	41.4	39.9	48.3	48.6
Heavy Trucks:	62.0	50.1	41.0	42.3	52.6	52.8
Vehicle Noise:	64.7	56.3	52.2	48.4	56.9	57.3

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	64
65 dBA	20
70 dBA	6
Mitigated	
60 dBA	
65 dBA	
70 dBA	

