

EMISSIONS TEST REPORT

(FULL COMPLIANCE)

Report Number: 102940158BOX-001b Project Number: G102940158

Report Issue Date: 04/25/2017

Model(s) Tested: RTU5 (Wide Band and Narrow Band)

Model(s) Partially Tested: None Model(s) Not Tested but declared equivalent by the client: None

Standards: FCC Part 90:2017, "Private Land Mobile Radio Services"

Tested by:
Intertek Testing Services NA, Inc.
70 Codman Hill Road
Boxborough, MA 01719
USA

Client: LoJack Corporation 40 Pequot Way Canton, MA 02021 USA

Report prepared by

Report reviewed by

War Still

Kouma Sinn / Staff Engineer, EMC

Norman Shpilsher/Sr. Staff Engineer, EMC

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Intertek

Report Number: 102940158BOX-001b Issued: 04/25/2017

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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
3	Client Information	
4	Description of Equipment Under Test and Variant Models	
5	System Setup and Method	
6	Transmitter Output Power (FCC 2.1046, 90.20(e)(6))	Pass
7	Transmitter Occupied Bandwidth (FCC 2.1049, 90.20(e)(6))	Pass
8	Transmitter Frequency Stability (FCC 2.1055, 90.213)	Pass
9	Transient Frequency Behavior (FCC 2.1055, 90.214)	Pass
10	Transmitter Emissions Mask (FCC 90.210(d))	Pass
11	Transmitter Spurious Emissions (Antenna Port Conducted) (FCC 2.1051, 90.210(d))	Pass
12	Band Edge Emissions (FCC 2.1053, 90.210(d))	Pass
13	Receiver Spurious Emissions (Antenna Port Conducted) (FCC 2.1053, 90.210(d))	Pass
14	Transmitter Out-of-Band Unwanted Emissions, Radiated (FCC 2.1053, 90.210(d))	Pass
15	Receiver Radiated Emissions (FCC 2.1053, 90.210(d))	Pass
16	AC Mains Conducted Emissions	Pass
17	Revision History	

3 Client Information

This EUT was tested at the request of:

Client: LoJack Corporation

40 Pequot Way Canton, MA 02021

USA

Contact: Vincent Ricci **Telephone:** (781) 302-4332

Fax: None

Email: vricci@lojack.com

4 Description of Equipment Under Test and Variant Models

Manufacturer: LoJack Corporation

40 Pequot Way Canton, MA 02021

USA

Equipment Under Test					
Description	Manufacturer	Model Number	Serial Number		
Remote Tower Unit (Wide Band)	LoJack Corporation	RTU5	E0001A		
Remote Tower Unit (Narrow Band)	LoJack Corporation	RTU5	E0001B		

Receive Date:	03/23/2017
Received Condition:	Good
Type:	Production
Test Dates(s):	03/24/2017,03/27/2017-03/29/2017, 04/01/2017-04/02/2017, 04/06/2017,
	04/09/2017

Description of Equipment Under Test (provided by client)

The EUT is Remote Tower Unit with wide band and narrow bands.

Equipment Under Test Power Configuration				
Rated Voltage	Rated Current	Rated Frequency	Number of Phases	
110/115 VAC	15 A	50/60 Hz	1	

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	Transmit mode
2	Receive mode

Software used by the EUT:

No	Descriptions of EUT Exercising	
1	None	

Radio/Re	Radio/Receiver Characteristics			
Frequency Band(s)	173.075 MHz			
Modulation Type(s)	MSK			
Maximum Output Power	53.39 dBm (Wide Band)			
	54.90 dBm (Narrow Band)			
Test Channels	1			
Occupied Bandwidth	13.126 kHz (26 dB, Wide Band),			
	12.024 kHz (Occupied Bandwidth, Wide Band),			
	7.377 kHz (26 dB, Narrow Band),			
	7.045 kHz (Occupied Bandwidth, Narrow Band)			
Frequency Hopper: Number of Hopping				
Channels	N/A			
Frequency Hopper: Channel Dwell Time	N/A			
Frequency Hopper: Max interval between				
two instances of use of the same channel N/A				
MIMO Information (# of Transmit and				
Receive antenna ports)	N/A			
Equipment Type	Standalone			
ETSI LBT/Adaptivity	N/A			
ETSI Adaptivity Type N/A				
ETSI Temperature Category (I, II, III) N/A				
ETSI Receiver Category (1, 2, 3)	N/A			
Antenna Type and Gain	6 dBi			

Variant Models:

The following variant models were not tested as part of this evaluation, but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

None

System Setup and Method

	Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination	
1	AC cable	1	None	None	AC mains	

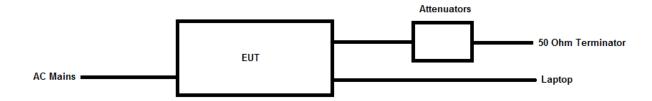
Support Equipment				
Description	Manufacturer	Model Number	Serial Number	
Laptop Dell		LATITUDE D600	None	

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5.1 Method:

Configuration as required by FCC Part 90:2017, ANSI C63.10:2013, ANSI C63.26-2015, and KDB 971168 D01 Power Meas License Digital Systems v02r02.

5.2 EUT Block Diagram:



6 Output Power

6.1 Method

Tests are performed in accordance with FCC 2.1046, 90.20(e)(6).

TEST SITE: EMC Lab

<u>The EMC Lab</u> has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

6.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
WEI18'	20 dB, 50 Watt Attenuator DC-18GHz	Weinschel Corp	47-20-34	BP0570	03/30/2016	03/30/2017
WEI16'	Attenuator, 30dB	Weinschel Corp	47-30-34	BD4327	05/02/2016	05/02/2017
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
147058'	Signal Generator 10 MHz to 20 GHz	Hewlett Packard	83620B	3722A00552	04/19/2016	04/19/2017
CBLSHF202'	Cable, SMA - SMA, 9kHz-40GHz	Sucoflex (Huber Suhn	104PE	CBLSHF202	08/29/2016	08/29/2017
			Sucoflex			
CBLSHF205'	Cable, SMA-SMA, 9kHz-40GHz, (Cable Kit5)	Huber + Suhner	102EA	234715001	08/27/2016	08/27/2017
			1000-A-FFN-			
	30 dB Attenuator, 1000 Watts	Bird	30	1710	VBU	VBU

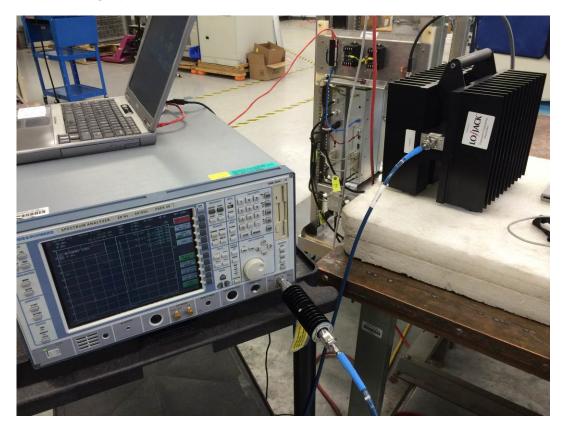
Software Utilized:

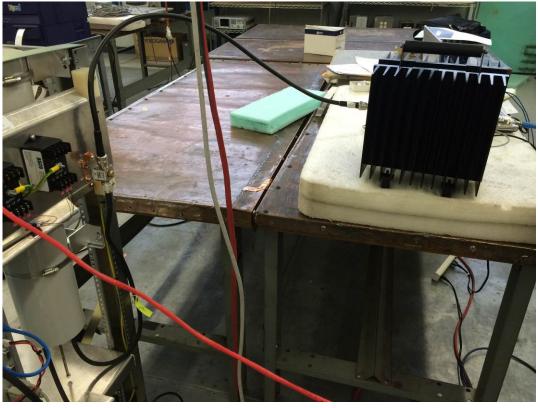
Name	Manufacturer	Version
None		

6.3 Results:

The sample tested was found to Comply.

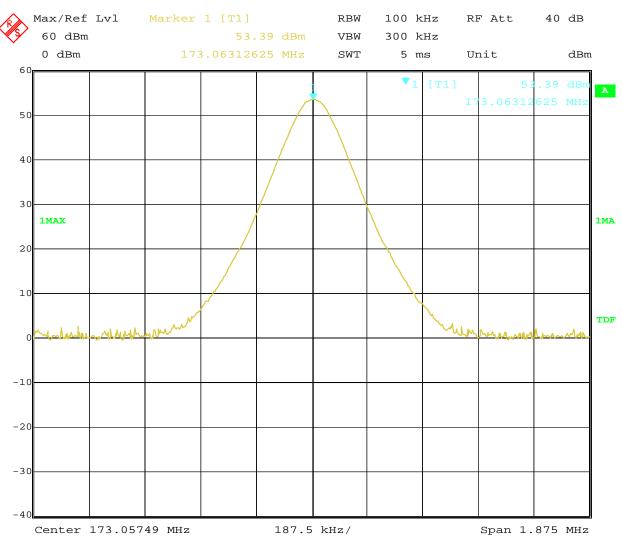
6.4 Setup Photographs:





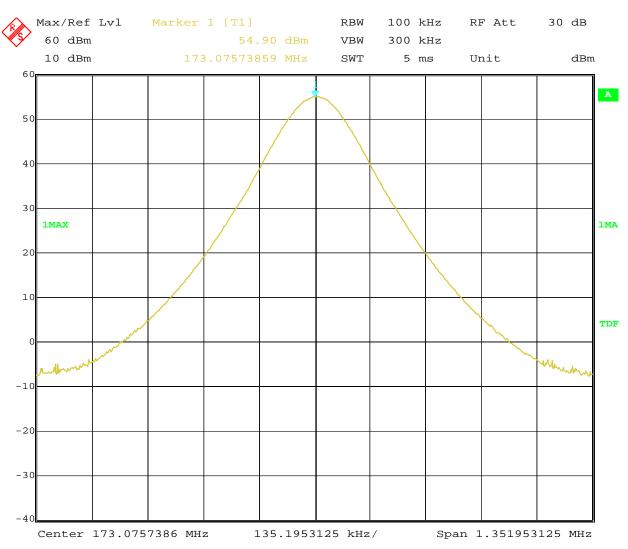
6.5 Plots/Data:

Output Power, 53.39 dBm, (Wide Band)



Date: 1.JAN.1997 07:29:16

Output Power, 54.90 dBm, (Narrow band)



Date: 1.JAN.1997 01:00:35

Output Power (ERP)

	Measured	Ant. Gain	Cable Loss	ERP	ERP	ERP Limit	Verdict
	Power	dBi	dB	dBm	W	W	Pass/Fail
Narrow Band	54.90	6.00	5.00	55.90	389.05	500.00	Pass
Wide Band	53.40	6.00	5.00	54.40	275.42	500.00	Pass

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Report Number: 102940158BOX-001b Issued: 04/25/2017

Test Personnel: Kouma Sinn 43 Test Date: _ 03/24/2017 (1st shift) Vathana Ven 03/24/2017 (2nd shift) Supervising/Reviewing Engineer: (Where Applicable) Product Standard: N/A FCC Part 90 Limit Applied: Per standard Input Voltage: 120VAC 60Hz Ambient Temperature: 23 °C Pretest Verification w/ Ambient Signals or BB Source: Relative Humidity: 10 % N/A Atmospheric Pressure: 1018 mbars

Deviations, Additions, or Exclusions: None

7 Transmitter Occupied Bandwidth

7.1 Method

Tests are performed in accordance with (FCC 2.1049, 90.20(e)(6)).

TEST SITE: EMC Lab

<u>The EMC Lab</u> has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

7.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
WEI18'	20 dB, 50 Watt Attenuator DC-18GHz	Weinschel Corp	47-20-34	BP0570	03/30/2016	03/30/2017
WEI16'	Attenuator, 30dB	Weinschel Corp	47-30-34	BD4327	05/02/2016	05/02/2017
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
147058'	Signal Generator 10 MHz to 20 GHz	Hewlett Packard	83620B	3722A00552	04/19/2016	04/19/2017
CBLSHF202'	Cable, SMA - SMA, 9kHz-40GHz	Sucoflex (Huber Suhn	104PE	CBLSHF202	08/29/2016	08/29/2017
CBLSHF205'	Cable, SMA-SMA, 9kHz-40GHz, (Cable Kit5)	Huber + Suhner	Sucoflex 102EA	234715001	08/27/2016	08/27/2017
			1000-A-FFN-			
	30 dB Attenuator, 1000 Watts	Bird	30	1710	VBU	VBU

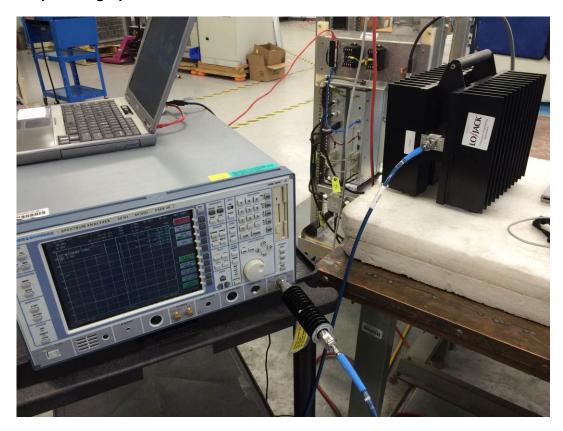
Software Utilized:

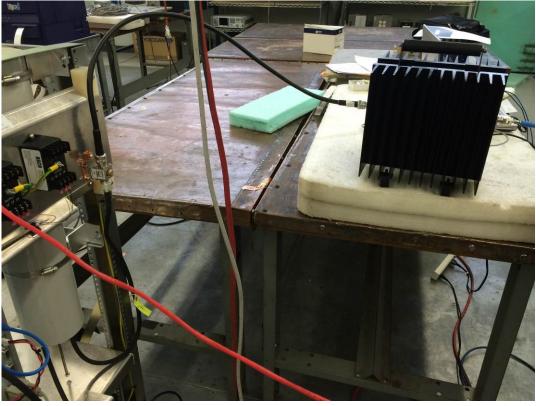
Name	Manufacturer	Version
None		

7.3 Results:

The sample tested was found to Comply.

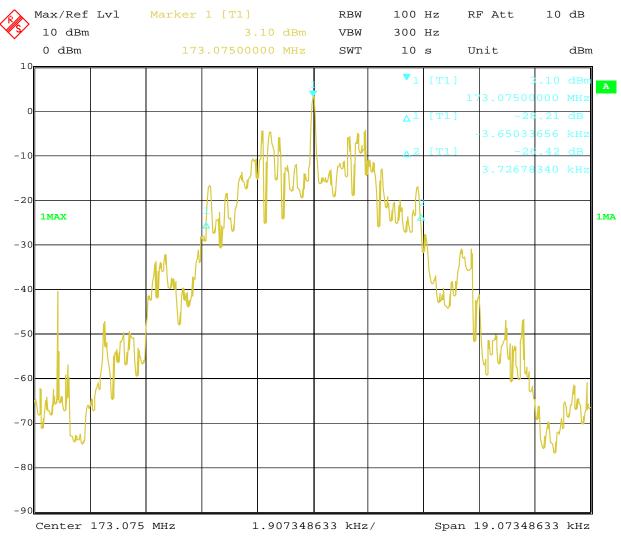
7.4 Setup Photographs:





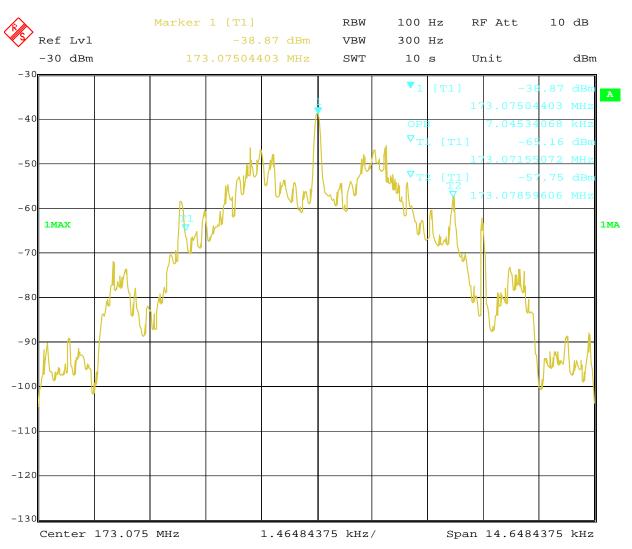
7.5 Plots/Data:

7.38 kHz (26 dB Bandwidth, Narrow Band)



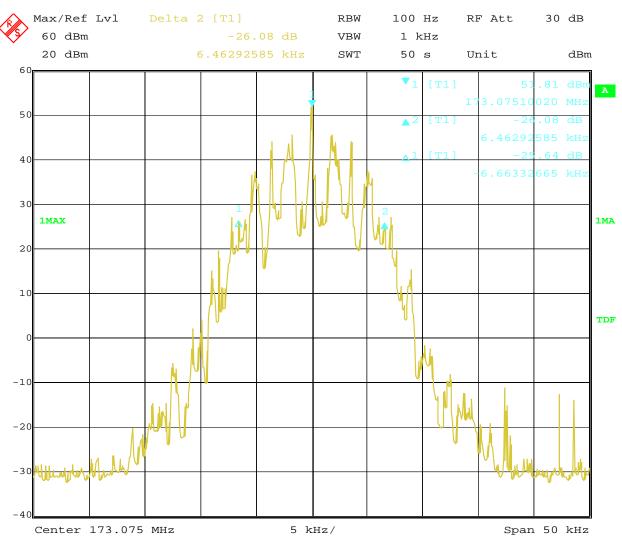
Date: 1.JAN.1997 00:34:48

7.05 kHz (Occupied Bandwidth, Narrow Band)



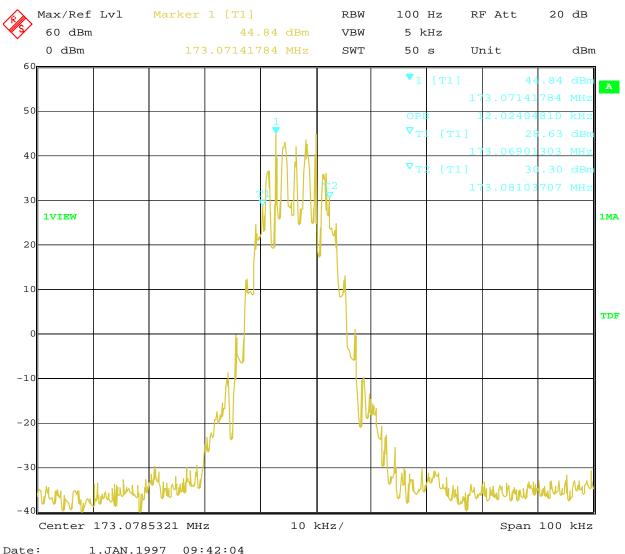
Date: 1.JAN.1997 00:28:31

13.13 kHz (26 dB Bandwidth, Wide Band)



Date: 1.JAN.1997 08:56:41

12.02 kHz (26 dB Bandwidth, Wide Band)



Notes: The bandwidths are within the limits of 12.5 kHz and 20 kHz per FCC Part 90.20(e)(6)(ii).

Test Personnel:	Vathana Ven	Test Date:	03/24/2017
Supervising/Reviewing Engineer:			
(Where Applicable)	N/A		
Product Standard:	FCC Part 90	Limit Applied:	Per standard
Input Voltage:	120VAC 60Hz		
Pretest Verification w/		Ambient Temperature:	23 ℃
Ambient Signals or			
BB Source:	N/A	Relative Humidity:	10 %
		Atmospheric Pressure:	1018 mbars

Deviations, Additions, or Exclusions: None

8 Transmitter Frequency Stability

8.1 Method

Tests are performed in accordance with FCC 2.1055, 90.213.

TEST SITE: Safety Lab

<u>The Safety Lab</u> has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

8.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
WEI16'	Attenuator, 30dB	Weinschel Corp	47-30-34	BD4327	05/02/2016	05/02/2017
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
147058'	Signal Generator 10 MHz to 20 GHz	Hewlett Packard	83620B	3722A00552	04/19/2016	04/19/2017
CBLSHF202'	Cable, SMA - SMA, 9kHz-40GHz	Sucoflex (Huber Suhn	104PE	CBLSHF202	08/29/2016	08/29/2017
CBLSHF205'	Cable, SMA-SMA, 9kHz-40GHz, (Cable Kit5)	Huber + Suhner	Sucoflex 102EA	234715001	08/27/2016	08/27/2017
	30 dB Attenuator, 1000 Watts	Bird	1000-A-FFN-30	1710	VBU	VBU
SAF881'	Walk-In Humidity Chamber/Controller	Associated Env. Sys.	WR-601	8769	02/15/2017	02/15/2018
SAF764'	Low-Medium Power Thermal Sensor	OPHIR Optronics	30(150)A-SV-17	596271	01/20/2017	01/20/2018

Software Utilized:

Name	Manufacturer	Version
None		

8.3 Results:

The sample tested was found to Comply.

8.4 Setup Photographs:





8.5 Test Data:

Frequency Stability

Company: LoJack Corporation

Test Equipment Used:

Model #: Remote Tower Unit

ROS001 SAF881 CBLSHF205

Serial #: E0001A

WEI18 30 dB att

Engineer(s): Kouma Sinn

Location: Safety

Project #: G102940158

Date(s): 04/02/17

FLU12 SAF764

Standard: FCC Part 90

Limit:

5 PPM

Nominal freq:

173.075 MHz

120 VAC Voltage:

	Voltage	Frequency	Deviation	
%	Volts	MHz	kHz	Limit kHz
-15%	102	173.075094	0	0.87
+0%	120	173.075094	0	0.87
+15%	138	173.075094	0	0.87

Temp	Frequency	Deviation	
Celsius	MHz	kHz	Limit kHz
-30	173.075219	0.12525	0.87
-20	173.075219	0.12525	0.87
-10	173.075219	0.12525	0.87
0	173.075282	0.18787	0.87
10	173.075157	0.06262	0.87
20	173.075094	0	0.87
30	173.075157	0.06262	0.87
40	173.075157	0.06262	0.87
50	173.075219	0.12525	0.87
•			•

Kouma Sinn 43 Test Personnel: Supervising/Reviewing Engineer: (Where Applicable) Product Standard: FCC Part 90 120VAC 60Hz Input Voltage: Pretest Verification w/ Ambient Signals or

N/A

Test Date: 04/02/2017

Ambient Temperature:

N/A

Limit Applied: Per standard

Relative Humidity:

N/A

Atmospheric Pressure: N/A

Deviations, Additions, or Exclusions: None

BB Source:

9 Transient Frequency

9.1 Method

Tests are performed in accordance with FCC 2.1055, 90.214.

TEST SITE: 5m Chamber

<u>The 5m Chamber</u> 5m Chamber is a fact 5 - 3m quiet zone type of chamber. This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 meters away at the other end of the chamber on the adjustable Antenna Mast. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room.

9.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
WEI16'	Attenuator, 30dB	Weinschel Corp	47-30-34	BD4327	05/02/2016	05/02/2017
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
147058'	Signal Generator 10 MHz to 20 GHz	Hewlett Packard	83620B	3722A00552	04/19/2016	04/19/2017
CBLSHF202'	Cable, SMA - SMA, 9kHz-40GHz	Sucoflex (Huber Suhn	104PE	CBLSHF202	08/29/2016	08/29/2017
			Sucoflex			
CBLSHF205'	Cable, SMA-SMA, 9kHz-40GHz, (Cable Kit5)	Huber + Suhner	102EA	234715001	08/27/2016	08/27/2017
			1000-A-FFN-			
	30 dB Attenuator, 1000 Watts	Bird	30	1710	VBU	VBU
HEW65'	Measuring Receiver	Hewlett Packard	8902A	3749A04397	01/21/2016	01/21/2018
AGL002'	1GHz 4CH O'Scope	Agilent	DSO6104A	MY44008115	08/11/2016	08/11/2017
HEW63'	Generator, Signal	Hewlett Packard	8648C	3847A05291	02/16/2017	02/16/2018
MIN005'	Splitter/Combiner 2-Way 10-2000 MHz	Mini Circuits	ZESC-2-11	none	12/02/2003	Verified

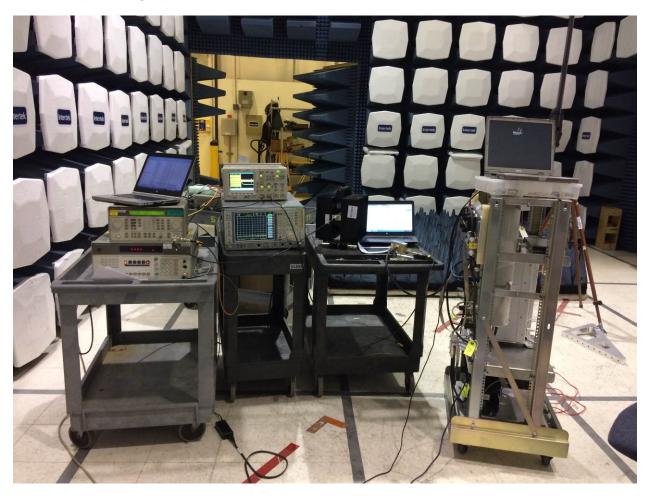
Software Utilized:

Name	Manufacturer	Version
None		

9.3 Results:

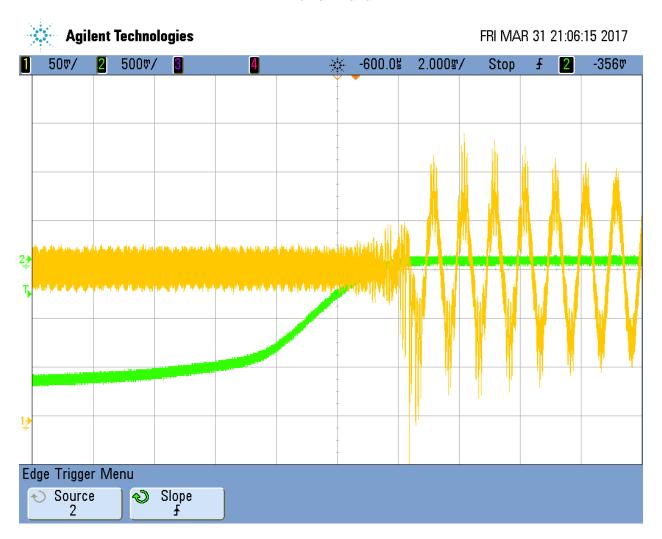
The sample tested was found to Comply.

9.4 Setup Photograph:



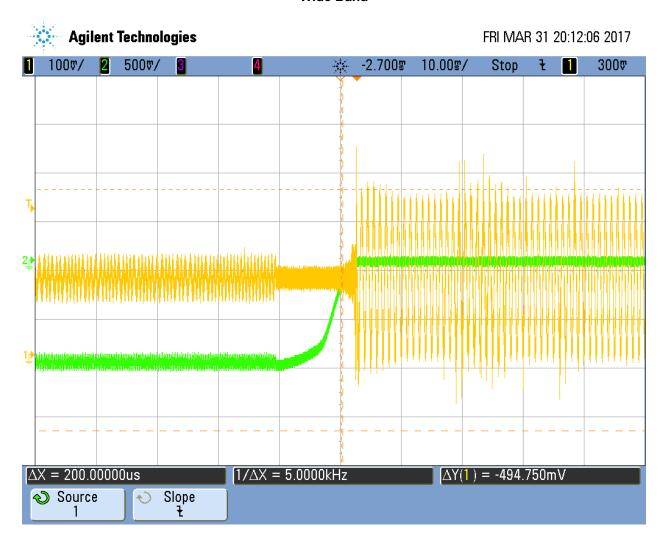
9.5 Plots/Data:

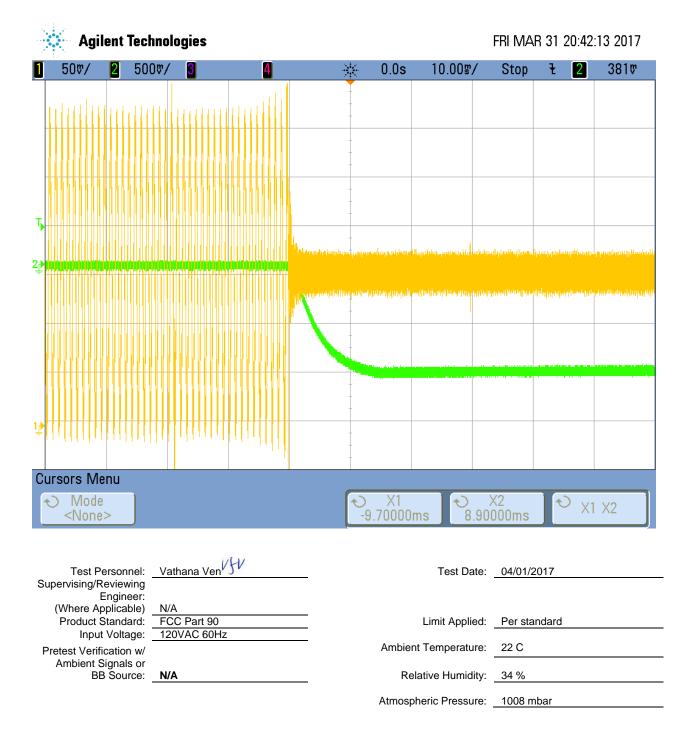
Narrow Band



Agilent Technologies FRI MAR 31 21:10:37 2017 5000/ -600.0% 2.000m/ -650♥ 500/ Stop ł 2 Save to file = scope_7 Save Recall Default Press to Quick Print Setup Save

Wide Band





Deviations, Additions, or Exclusions: None

10 Emission masks

10.1 Method

Tests are performed in accordance with FCC Part 90, 90.210.

TEST SITE: EMC Lab

<u>The EMC Lab</u> has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

10.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
WEI16'	Attenuator, 30dB	Weinschel Corp	47-30-34	BD4327	05/02/2016	05/02/2017
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
147058'	Signal Generator 10 MHz to 20 GHz	Hewlett Packard	83620B	3722A00552	04/19/2016	04/19/2017
CBLSHF202'	Cable, SMA - SMA, 9kHz-40GHz	Sucoflex (Huber Suhn	104PE	CBLSHF202	08/29/2016	08/29/2017
CBLSHF205'	Cable, SMA-SMA, 9kHz-40GHz, (Cable Kit5)	Huber + Suhner	Sucoflex 102EA	234715001	08/27/2016	08/27/2017
	30 dB Attenuator, 1000 Watts	Bird	1000-A-FFN-30	1710	VBU	VBU

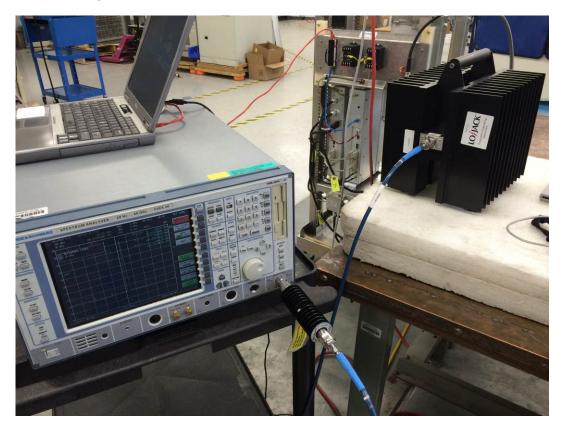
Software Utilized:

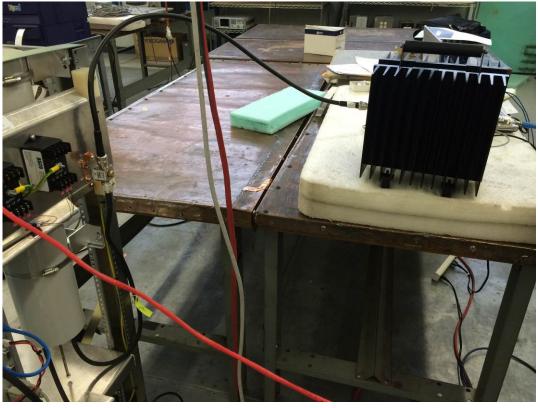
Name	Manufacturer	Version
None		

10.3 Results:

The sample tested was found to Comply.

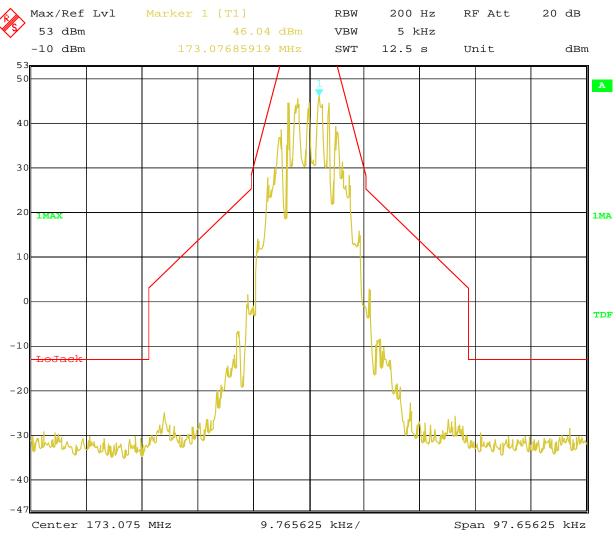
10.4 Setup Photographs:





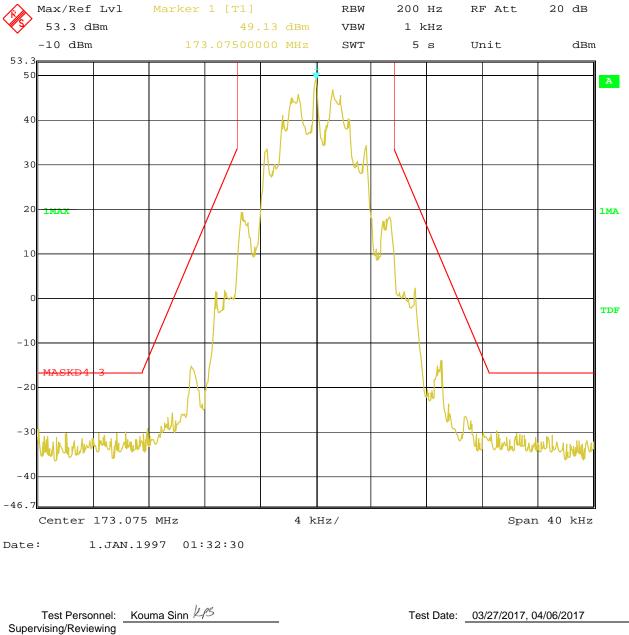
10.5 Plots/Data:

Emissions Mask C (Wide Band)



Date: 1.JAN.1997 03:25:41

Emissions Mask D (Narrow Band)



Test Personnel:	Kouma Sinn 43	Test Date:	03
Supervising/Reviewing		_	
Engineer: (Where Applicable)	N/A		
Product Standard:	FCC Part 90	Limit Applied:	Pe
Input Voltage:	120VAC 60Hz		
Pretest Verification w/		Ambient Temperature:	23,
Ambient Signals or BB Source:	N/A	Relative Humidity:	10,

Limit Applied: Per standard

Ambient Temperature: 23, 22 °C

Relative Humidity: 10, 27 %

Atmospheric Pressure: 1018, 1002 mbars

Deviations, Additions, or Exclusions: None

11 Transmitter Spurious Emissions (Antenna Port Conducted)

11.1 Method

Tests are performed in accordance with FCC 2.1051, 90.210(d).

TEST SITE: EMC Lab

<u>The EMC Lab</u> has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

11.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
WEI18'	20 dB, 50 Watt Attenuator DC-18GHz	Weinschel Corp	47-20-34	BP0570	03/30/2016	03/30/2017
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
147058'	Signal Generator 10 MHz to 20 GHz	Hewlett Packard	83620B	3722A00552	04/19/2016	04/19/2017
CBLSHF202'	Cable, SMA - SMA, 9kHz-40GHz	Sucoflex (Huber Suhn	104PE	CBLSHF202	08/29/2016	08/29/2017
CBLSHF205'	Cable, SMA-SMA, 9kHz-40GHz, (Cable Kit5)	Huber + Suhner	Sucoflex 102EA	234715001	08/27/2016	08/27/2017
	30 dB Attenuator, 1000 Watts	Bird	1000-A-FFN-30	1710	VBU	VBU
	High Pass Filter	Mini-Circuits	NHP-300+	15542	02/02/2017	02/02/2018

Software Utilized:

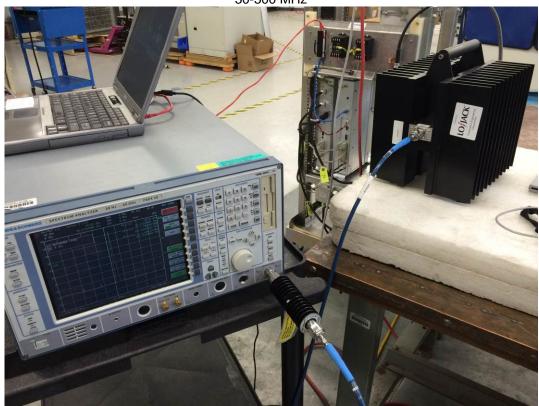
Name	Manufacturer	Version
None		

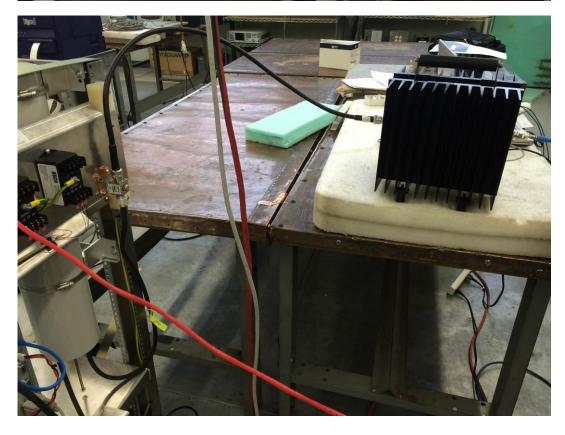
11.3 Results:

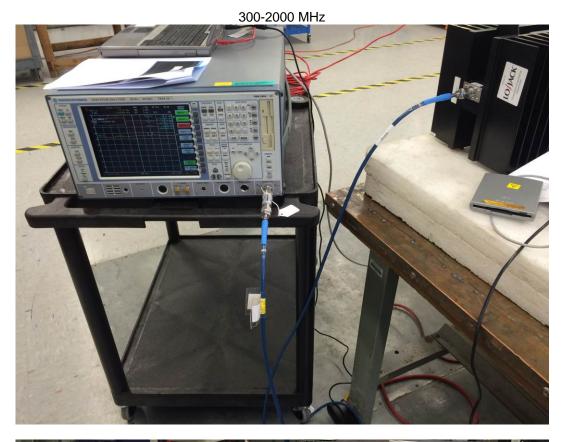
The sample tested was found to Comply.

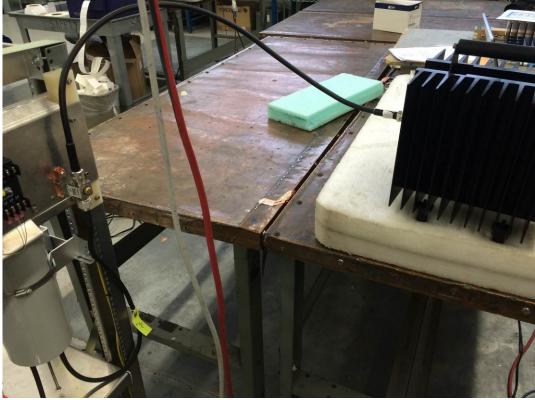
11.4 Setup Photographs:





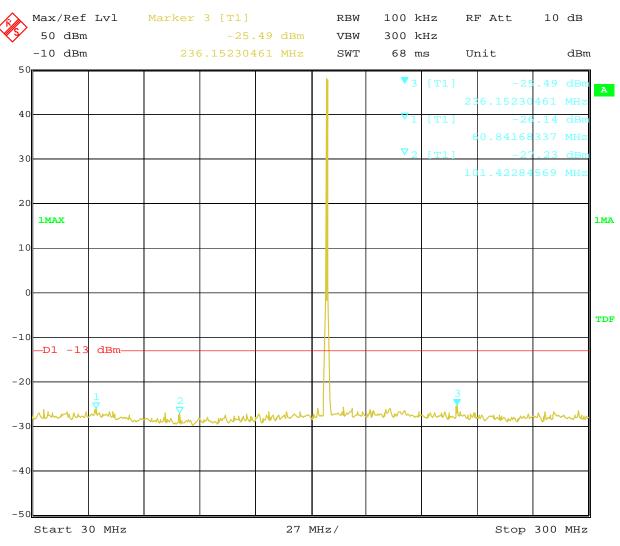






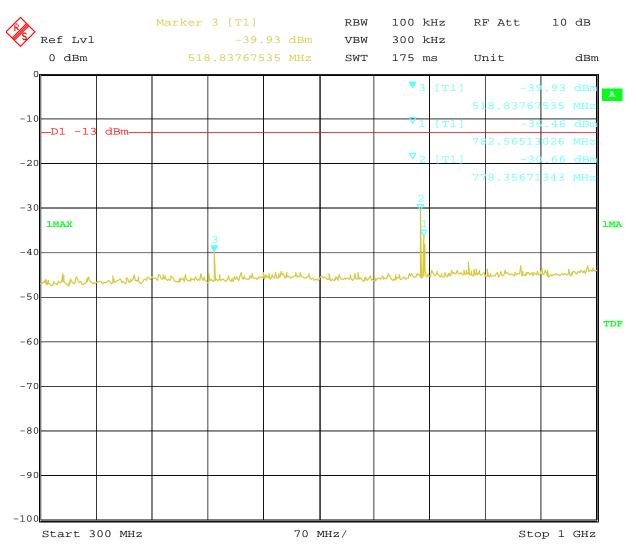
11.5 Plots/Data:

Transmitter Port Conducted Spurious Emissions, 30-300 MHz, (Wide Band)



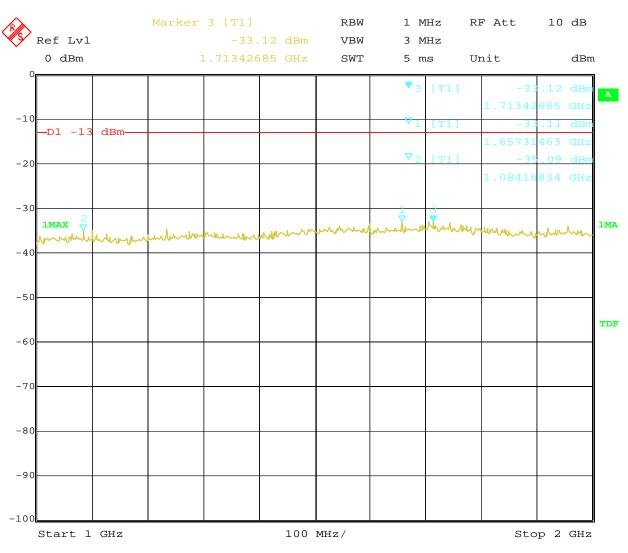
Date: 1.JAN.1997 06:20:25

Transmitter Port Conducted Spurious Emissions, 300-1000 MHz, (Wide Band)



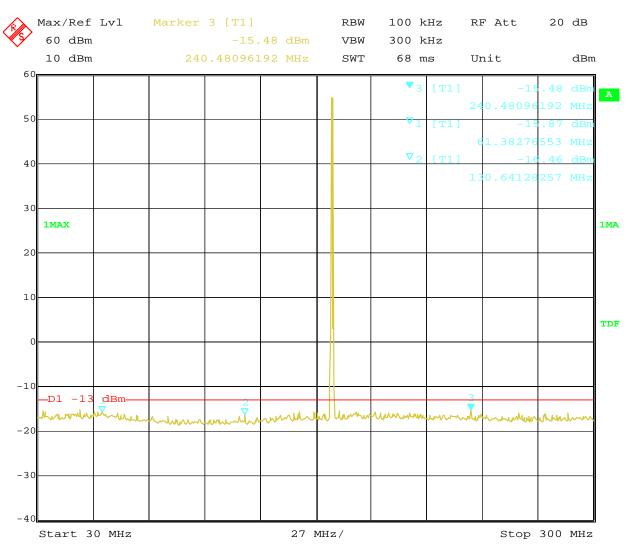
Date: 1.JAN.1997 05:43:30

Transmitter Port Conducted Spurious Emissions, 1-2 GHz, (Wide Band)



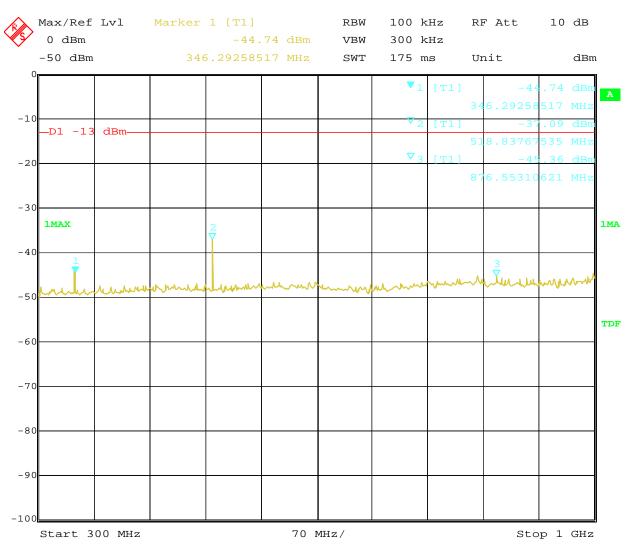
Date: 1.JAN.1997 05:45:07

Transmitter Port Conducted Spurious Emissions, 30-300 MHz, (Narrow Band)



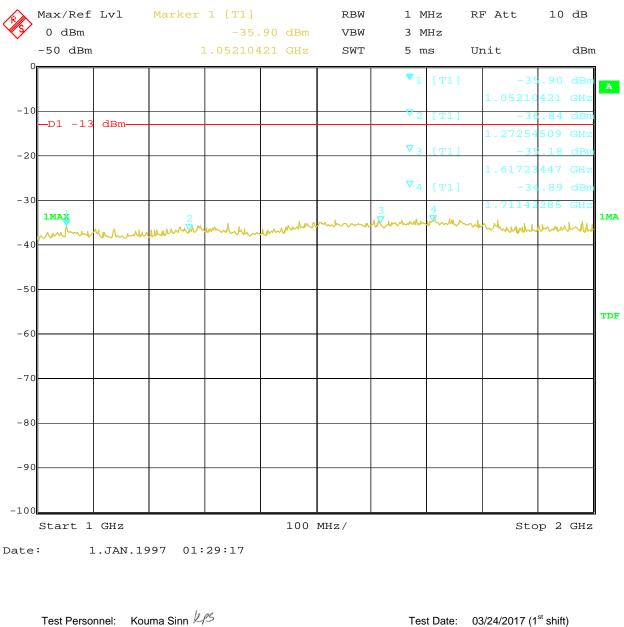
Date: 1.JAN.1997 01:12:52

Transmitter Port Conducted Spurious Emissions, 300-1000 MHz, (Narrow Band)



Date: 1.JAN.1997 01:40:09

Transmitter Port Conducted Spurious Emissions, 1-2 GHz, (Narrow Band)



Test Personnel:	Kouma Sinn 43	Test Date:	03/24/2017 (1 st shift)
	Vathana Ven		03/24/2017 (2 nd shift)
Supervising/Reviewing Engineer:			
(Where Applicable)	N/A		
Product Standard:	FCC Part 90	Limit Applied:	Per standard
Input Voltage:	120VAC 60Hz	· · ·	
Pretest Verification w/		Ambient Temperature:	23 °C
Ambient Signals or			
BB Source:	N/A	Relative Humidity:	10 %
		Atmospheric Pressure:	1018 mbars

Deviations, Additions, or Exclusions: None

12 Band Edge Emissions

12.1 Method

Tests are performed in accordance with FCC 2.1051, 90.210(d).

TEST SITE: EMC Lab

<u>The EMC Lab</u> has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

12.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
WEI18'	20 dB, 50 Watt Attenuator DC-18GHz	Weinschel Corp	47-20-34	BP0570	03/30/2016	03/30/2017
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
147058'	Signal Generator 10 MHz to 20 GHz	Hewlett Packard	83620B	3722A00552	04/19/2016	04/19/2017
CBLSHF202'	Cable, SMA - SMA, 9kHz-40GHz	Sucoflex (Huber Suhn	104PE	CBLSHF202	08/29/2016	08/29/2017
			Sucoflex			
CBLSHF205'	Cable, SMA-SMA, 9kHz-40GHz, (Cable Kit5)	Huber + Suhner	102EA	234715001	08/27/2016	08/27/2017
			1000-A-FFN-			
	30 dB Attenuator, 1000 Watts	Bird	30	1710	VBU	VBU

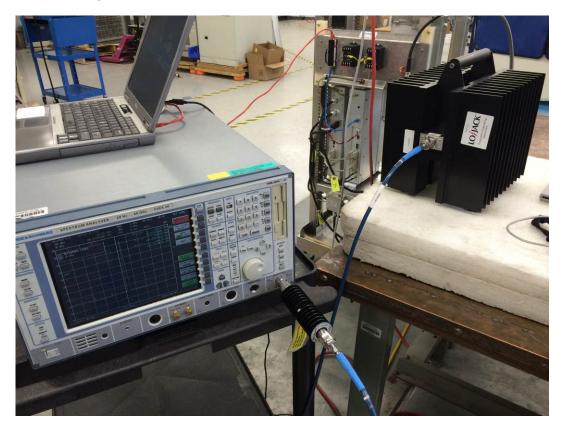
Software Utilized:

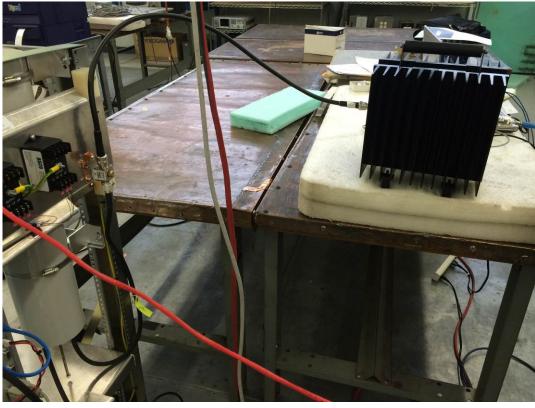
Name	Manufacturer	Version
None		

12.3 Results:

The sample tested was found to Comply.

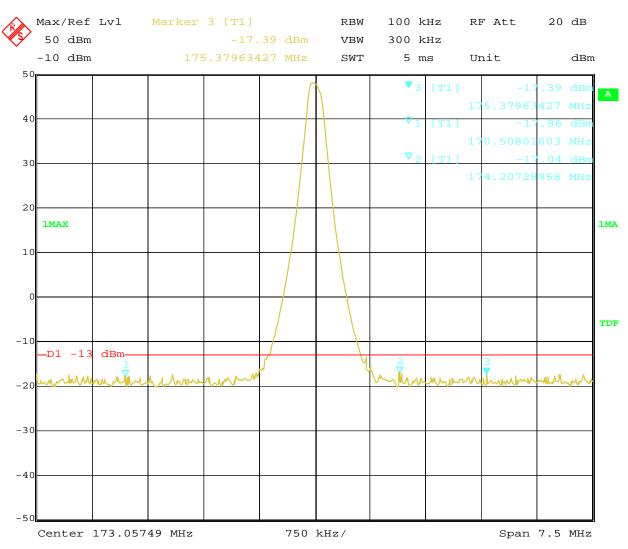
12.4 Setup Photographs:





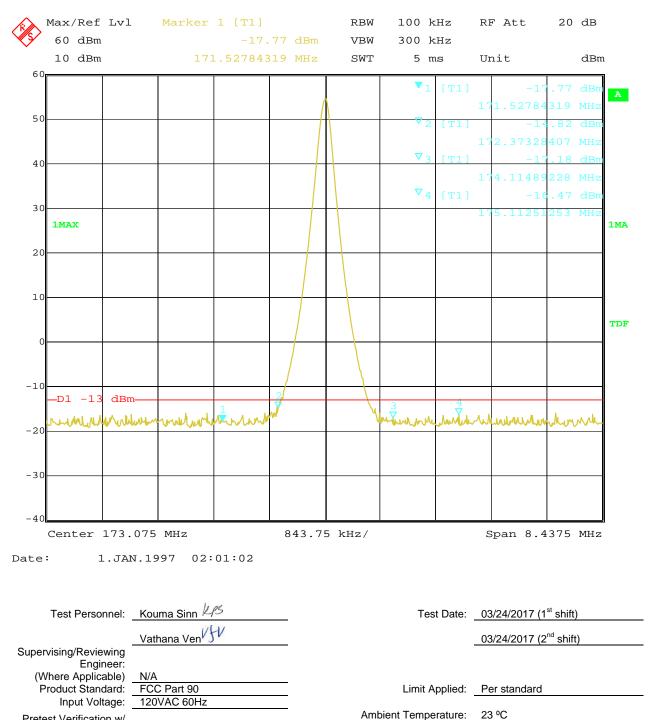
12.5 Plots/Data:

Band Edge Emissions, 30-300 MHz, (Wide Band)



Date: 1.JAN.1997 07:44:41

Band Edge Emissions, 30-300 MHz, (Narrow Band)



Deviations, Additions, or Exclusions: None

N/A

Pretest Verification w/ Ambient Signals or BB Source:

Relative Humidity: 10 %

Atmospheric Pressure: 1018 mbars

13 Receiver Spurious Emissions (Antenna Port Conducted)

13.1 Method

Tests are performed in accordance with FCC 2.1051, 90.210(d).

TEST SITE: EMC Lab

<u>The EMC Lab</u> has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

13.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
			Sucoflex			
CBLSHF205'	Cable, SMA-SMA, 9kHz-40GHz, (Cable Kit5)	Huber + Suhner	102EA	234715001	08/27/2016	08/27/2017

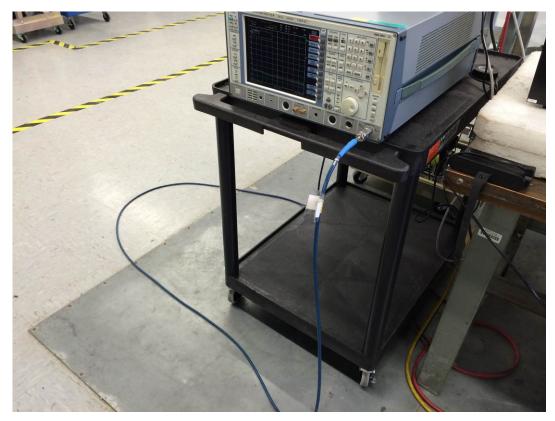
Software Utilized:

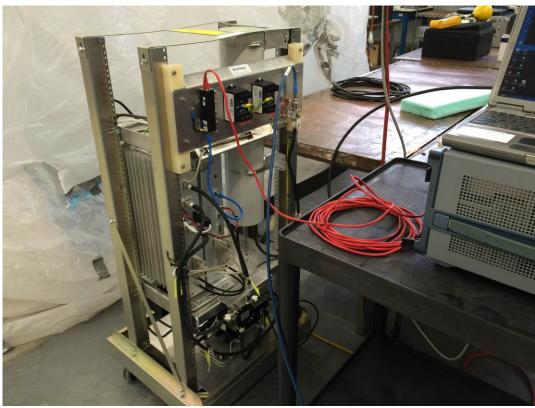
Name	Manufacturer	Version
None		

13.3 Results:

The sample tested was found to Comply.

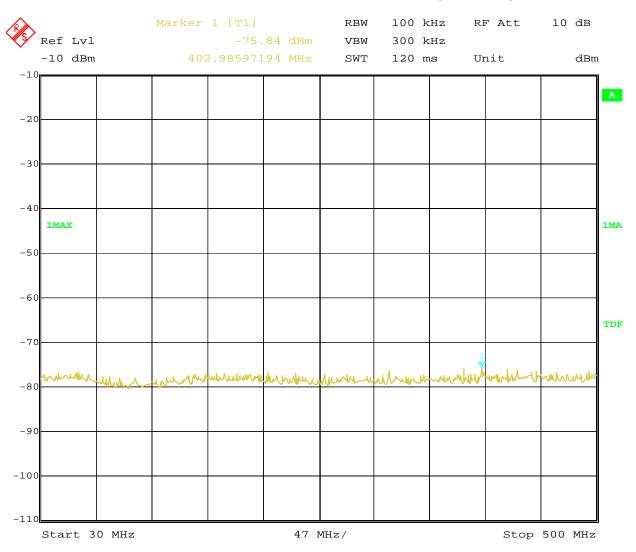
13.4 Setup Photographs:





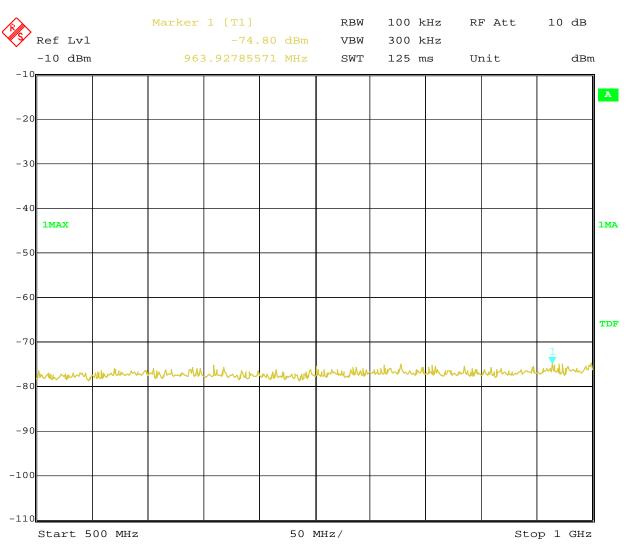
13.5 Plots/Data:

Receiver Port Conducted Emissions, 30-500 MHz, (Wide Band)



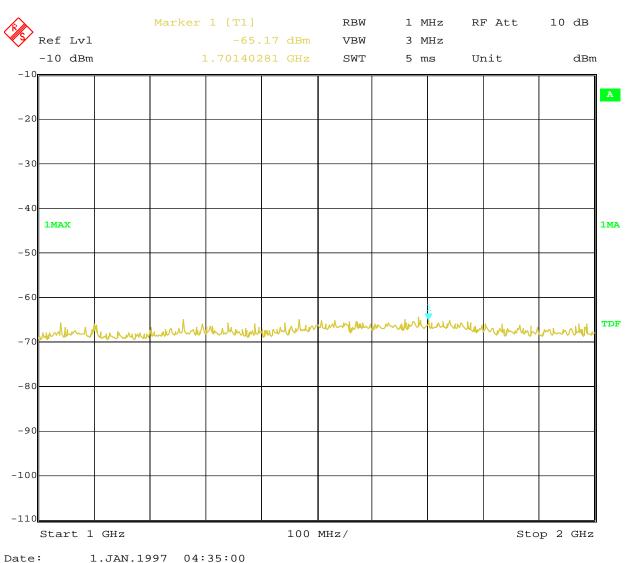
Date: 1.JAN.1997 04:33:14

Receiver Port Conducted Emissions, 500-1000 MHz, (Wide Band)

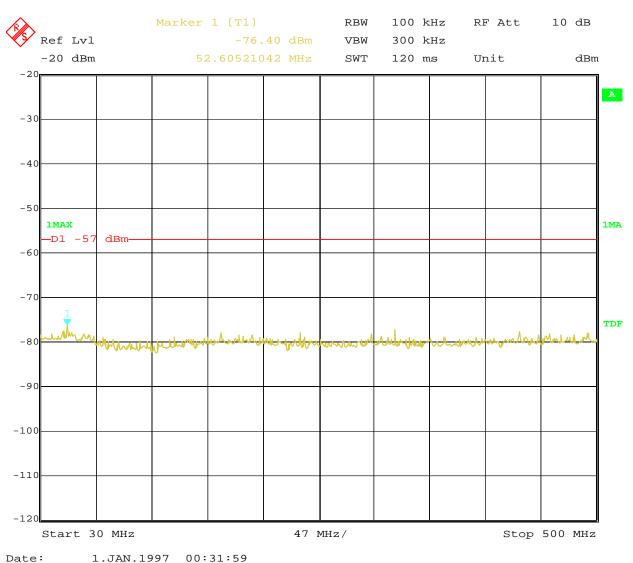


Date: 1.JAN.1997 04:33:54

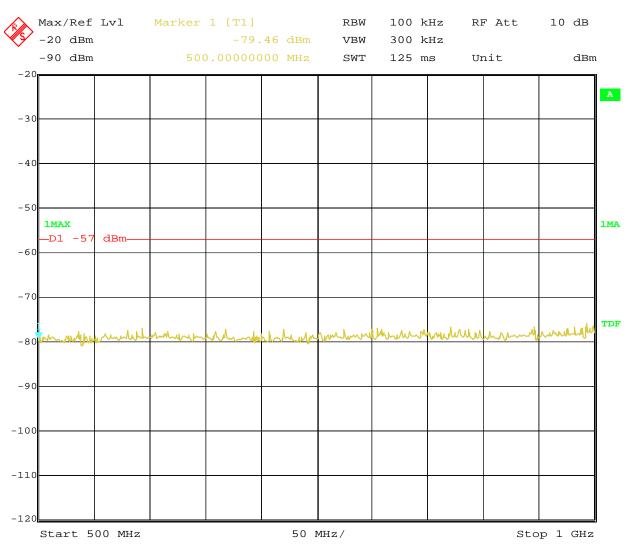
Receiver Port Conducted Emissions, 1-2 GHz, (Wide Band)



Receiver Port Conducted Emissions, 30-500 MHz, (Narrow Band)

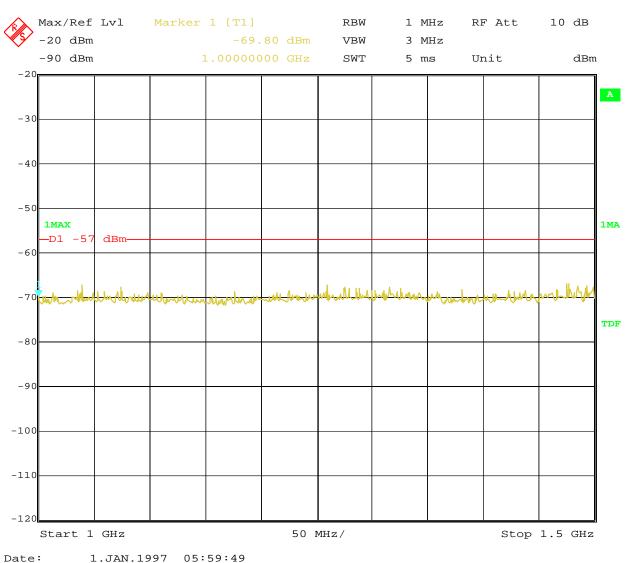


Receiver Port Conducted Emissions, 500-1000 MHz, (Narrow Band)

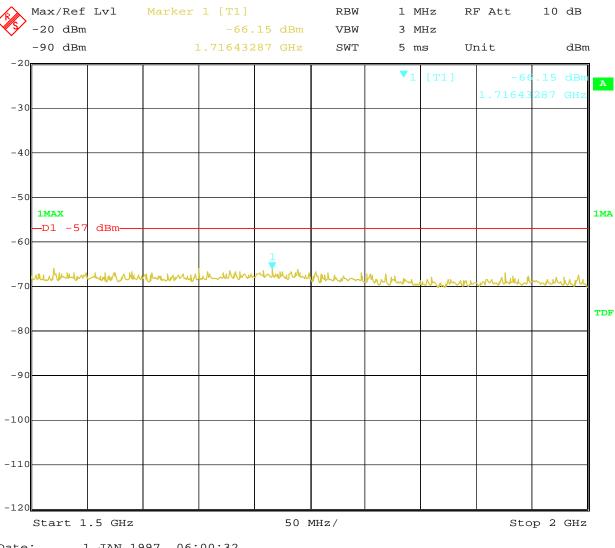


Date: 1.JAN.1997 05:58:53

Receiver Port Conducted Emissions, 1-1.5 GHz, (Narrow Band)



Receiver Port Conducted Emissions, 1.5-2 GHz, (Narrow Band)



Date: 1.JAN.1997 06:00:32

Test Personnel:	Kouma Sinn 43	Test Date:	03/24/2017 (1 st shift)
	Vathana Ven		03/24/2017 (2 nd shift)
Supervising/Reviewing Engineer:		_	
(Where Applicable)	N/A		
Product Standard:	FCC Part 90	Limit Applied:	Per standard
Input Voltage:	120VAC 60Hz	_	
Pretest Verification w/		Ambient Temperature:	23 °C
Ambient Signals or	NI/A	Deletion Headille	40.07
BB Source:	N/A	Relative Humidity:	10 %
		Atmospheric Pressure:	1018 mbars

Deviations, Additions, or Exclusions: None

14 Transmitter Out-of-Band Unwanted Emissions, Radiated

14.1 Method

Tests are performed in accordance with FCC 2.1053, 90.210(d).

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 10m	30-1000 MHz	4.6dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions $U_{\it lab}$ is less than the corresponding $U_{\it CISPR}$ reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG

Where $FS = Field Strength in dB_{\mu}V/m$

RA = Receiver Amplitude (including preamplifier) in $dB\mu V$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

 $RA = 52.0 dB\mu V$ AF = 7.4 dB/m CF = 1.6 dB AG = 29.0 dB $FS = 32 dB\mu V/m$

To convert from $dB\mu V$ to μV or mV the following was used:

UF =
$$10^{(NF/20)}$$
 where UF = Net Reading in μ V NF = Net Reading in dB μ V

Example:

FS = RA + AF + CF - AG =
$$52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

UF = $10^{(32 \text{ dB}\mu\text{V}/20)} = 39.8 \text{ }\mu\text{V/m}$

Alternately, when C5 Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". "AF" is the Antenna Factor; "PA+CL" are Preamp and Cable Loss. These are already accounted for in the "Level" column.

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Report Number: 102940158BOX-001b Issued: 04/25/2017

14.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
<u>DAV00</u> 4'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
<u>145128</u> '	EMI Receiver (20 Hz - 40 Ghz)	Rohde & Schwarz	ESIB 40	839283/001	03/15/2017	03/15/2018
ROS001'	Spectrum Analyzer 20Hz - 40 GHz	Rohde & Schwartz	FSEK-30	100225	06/09/2016	06/09/2017
REA003'	1GHz High Pass Filter	Reactel, Inc	7HS-1G/10G-S11	06-1	02/17/2017	02/17/2018
REA006'	18GHz High Pass Filter	ilter Reactel, Inc 7HS-18G/40G K11		(06)1	02/17/2017	02/17/2018
<u>145-416</u> '	Cables 145-420 145-423 145-424 145-408	Huber + Suhner	3m Track B cables	multiple	07/30/2016	07/30/2017
CBLHF2012-2M-2'	2m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252675002	02/08/2017	02/08/2018
CBLHF2012-5M-2'	-5M-2' 5m 9kHz-40GHz Coaxial Cable - SET2 Huber & Suhner SF102		SF102	252676002	02/08/2017	02/08/2018
PRE 10'	30-1000MHz pre-amp	ITS PRE10		PRE10	12/16/2016	12/16/2017
HEW46'	METER, POWER	Hewlett Packard 436A/022		2604A23768	04/29/2016	04/29/2017
ETS001'	1-18GHz DRG Horn Antenna	ETS-Lindgren	3117	00143259	02/13/2017	02/13/2018
EMC04'	ANTENNA, RIDGED GUIDE, 18-40 GHZ	EMCO	3116	2090	04/07/2015	04/07/2016

Software Utilized:

Name	Manufacturer	Version

14.3 Results:

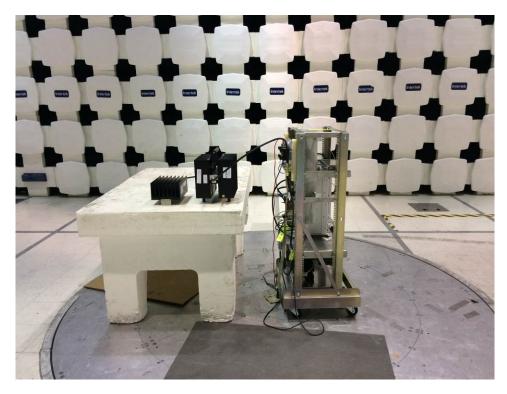
The sample tested was found to Comply.

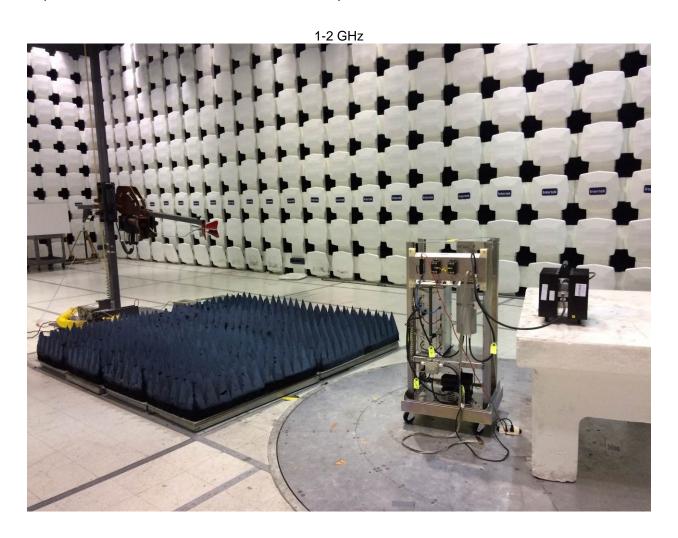
Issued: 04/25/2017 Report Number: 102940158BOX-001b

14.4 Setup Photographs:









14.5 Plots/Data:

Narrow Band, 30 MHz-2 GHz

Radiated Emissions, Substitution

Company: LoJACK Corporation Rx Antenna: 145-106 FTS001

Model #: RTU5 Rx Cable(s): 145-410 145-416 REA003 Serial #: E001B Rx Preamp: 145-014 Receiver: 145-128 Engineer(s): Vathana Ven Location: 10M Tx Antenna: 145154 ANT6C ANTB

Date(s): 03/28/17 Project #: Qu-00755931 Tx Cable(s): CBLSHF205 Standard: FCC Part 15/Cispr22 Class B Tx Signal Generator: HEW62 Barometer: DAV004 Temp/Humidity/Pressure: 20 deg C 33% 1003mB ERP or EIRP?: ERP

> Test Distance (m): 10 Voltage/Frequency: 120VAC 60Hz Frequency Range: 30 MHz - 2 GHz

Net = Generator Level (0.00 dBm) + (EUT reading - Generator reading) - Cable Loss + Antenna Gain (dBi or dBd) Peak: PK Quasi-Peak: QP Average: AVG RMS: RMS; NF = Noise Floor RB = Restricted Band; Bandwidth denoted as RBW/VBW

	Ant.		EUT	Generator	Transmit	Transmit	Generator					
Detector	Pol.	Frequency	Reading	Reading	Cable	Antenna	Level	Net	Limit	Margin	Bandwidth	
Туре	(V/H)	MHz	dB(uV)	dB(uV)	Loss dB	dBi	dBm	dBm	dBm	dB		
PK	V	93.367	30.78	51.36	0.64	-0.40	-20.00	-43.77	-13.00	-30.77	120/300 kHz	No Pre-amp
PK	Н	346.123	48.99	46.69	1.22	-0.70	-20.00	-21.77	-13.00	-8.77	120/300 kHz	No Pre-amp
PK	Н	519.225	29.37	44.02	1.38	1.00	-20.00	-37.18	-13.00	-24.18	120/300 kHz	No Pre-amp
PK	Н	865.375	29.70	41.61	1.86	0.60	-20.00	-35.32	-13.00	-22.32	120/300 kHz	No Pre-amp
PK	Н	1038.450	70.94	84.04	1.92	6.90	-20.00	-30.27	-13.00	-17.27	1/3 MHz	
PK	Н	1211.525	46.37	81.09	1.92	6.99	-20.00	-51.80	-13.00	-38.80	1/3 MHz	
PK	Н	1384.600	61.12	81.61	1.92	7.18	-20.00	-37.38	-13.00	-24.38	1/3 MHz	
PK	Н	1557.675	44.01	82.77	2.71	8.51	-20.00	-55.11	-13.00	-42.11	1/3 MHz	
PK	Н	1730.750	47.20	80.83	2.71	9.18	-20.00	-49.31	-13.00	-36.31	1/3 MHz	1

Wide Band, 30 MHz-2 GHz

Radiated Emissions, Substitution

Company: LoJACK Corporation Rx Antenna: 145-106 ETS001

Model #: RTU5 Rx Cable(s): 145-410 145-416 REA003 Serial #: E0001A Rx Preamp: 145-014 Receiver: 145-128 Engineer(s): Vathana Ven Location: 10M Tx Antenna: 145154 ANT6C ANTB

Project #: Qu-00755931 Date(s): 03/29/17 Tx Cable(s): CBLSHF205 Standard: FCC Part 15/Cispr22 Class B Tx Signal Generator: HEW62 Barometer: DAV004 Temp/Humidity/Pressure: 21 deg C 30% 1008mB ERP or EIRP?: ERP

> Test Distance (m): 3 & 10 Voltage/Frequency: 120VAC 60Hz Frequency Range:

Net = Generator Level (0.00 dBm) + (EUT reading - Generator reading) - Cable Loss + Antenna Gain (dBi or dBd) Peak; PK Quasi-Peak; QP Average; AVG RMS; RMS; NF = Noise Floor RB = Restricted Band; Bandwidth denoted as RBW/VBW

i can. i	it Quasi i	Juli. Qi 71V	stage. Atvo	TAIVIO. TAIVIO), INI — INOI	30 1 1001 111	<i>–</i> 1103111010	a Dana, De	andwidth dci	lotou as ItL	7VV/ V D V V	_
_	Ant.		EUT	Generator	Transmit	Transmit	Generator					
Detector	Pol.	Frequency	Reading	Reading	Cable	Antenna	Level	Net	Limit	Margin	Bandwidth	
Type	(V/H)	MHz	dB(uV)	dB(uV)	Loss dB	dBi	dBm	dBm	dBm	dB		
PK	V	92.425	29.70	51.36	0.64	-0.40	-20.00	-44.85	-13.00	-31.85	120/300 kHz	No Pr
PK	Н	346.123	39.46	46.69	1.22	-0.70	-20.00	-31.30	-13.00	-18.30	120/300 kHz	No Pr
PK	Н	519.225	29.39	44.02	1.38	1.00	-20.00	-37.16	-13.00	-24.16	120/300 kHz	No Pr
PK	Н	865.375	26.50	41.61	1.86	0.60	-20.00	-38.52	-13.00	-25.52	120/300 kHz	No Pr
PK	Н	1038.450	68.90	82.88	1.92	6.90	-20.00	-31.15	-13.00	-18.15	1/3 MHz	
PK	Н	1211.525	49.89	79.92	1.92	6.99	-20.00	-47.11	-13.00	-34.11	1/3 MHz	
PK	Н	1384.600	48.05	81.59	1.92	7.18	-20.00	-50.43	-13.00	-37.43	1/3 MHz	
PK	Н	1557.675	40.48	81.98	2.71	8.51	-20.00	-57.85	-13.00	-44.85	1/3 MHz	
PK	Н	1730.750	49.46	80.31	2.71	9.18	-20.00	-46.53	-13.00	-33.53	1/3 MHz	

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Report Number: 102940158BOX-001b Issued: 04/25/2017

Test Personnel: Vathana Ven Test Date: 03/28/2017 Supervising/Reviewing Engineer: (Where Applicable) Product Standard: FCC Part 90 Limit Applied: Per standard Input Voltage: 120VAC 60Hz Ambient Temperature: 21 °C Pretest Verification w/ Ambient Signals or BB Source: BB Source Relative Humidity: 30 % Atmospheric Pressure: 1008 mbars

Deviations, Additions, or Exclusions: None

15 Receiver Radiated Emissions

15.1 Method

Tests are performed in accordance with (FCC 2.1053, 90.210(d))

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 10m	30-1000 MHz	4.6dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions $U_{\it lab}$ is less than the corresponding $U_{\it CISPR}$ reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Client: LoJack Corporation / Model RTU5 (Wide Band and Narrow Band)

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Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG

Where $FS = Field Strength in dB_{\mu}V/m$

RA = Receiver Amplitude (including preamplifier) in $dB\mu V$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

 $RA = 52.0 dB\mu V$ AF = 7.4 dB/m CF = 1.6 dB AG = 29.0 dB $FS = 32 dB\mu V/m$

To convert from $dB\mu V$ to μV or mV the following was used:

UF =
$$10^{(NF/20)}$$
 where UF = Net Reading in μ V NF = Net Reading in dB μ V

Example:

FS = RA + AF + CF - AG =
$$52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

UF = $10^{(32 \text{ dB}\mu\text{V}/20)} = 39.8 \text{ }\mu\text{V/m}$

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

Intertek

Report Number: 102940158BOX-001b Issued: 04/25/2017

15.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV004	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
145106	Bilog Antenna (30MHz - 5GHz)	Sunol Sciences	JB5	A111003	05/03/2016	05/03/2017
PRE10	30-1000MHz pre-amp	ITS	PRE10	PRE10	12/16/2016	12/16/2017
			10m Track A			
145-410	Cables 145-420 145-421 145-422 145-406	Huber + Suhner	Cables	multiple	07/30/2016	07/30/2017
145-418						
ETS002	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	05/13/2016	05/13/2017
145014	Preamplifier (1 GHz to 26.5 GHz)	Hewlett Packard	8449B	3008A00232	05/27/2016	05/27/2017
145128	EMI Receiver (20 Hz - 40 Ghz)	Rohde & Schwarz	ESIB 40	839283/001	03/15/2017	03/15/2018

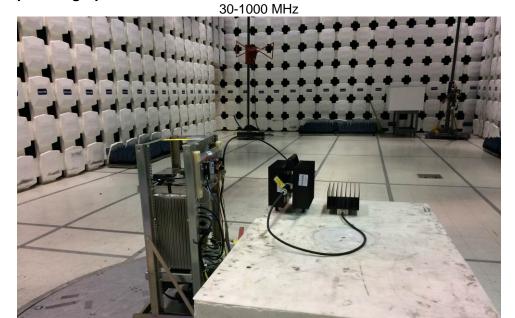
Software Utilized:

Name	Manufacturer	Version
BAT-EMC Emissions	Nexio	3.16.0.69

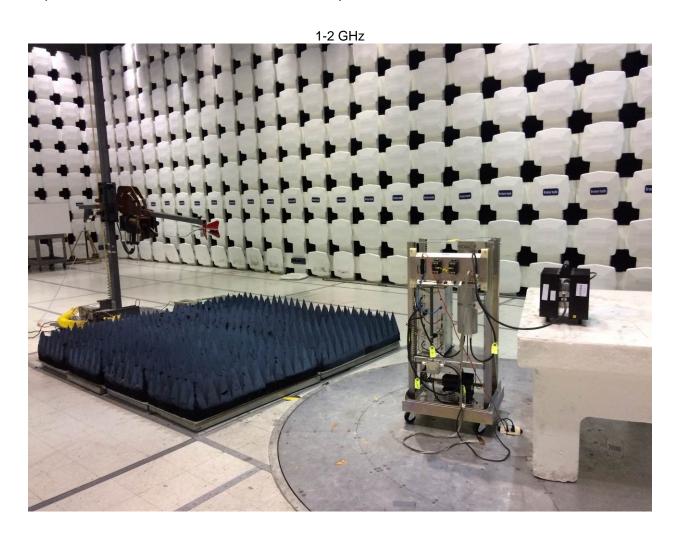
15.3 Results:

The sample tested was found to Comply.

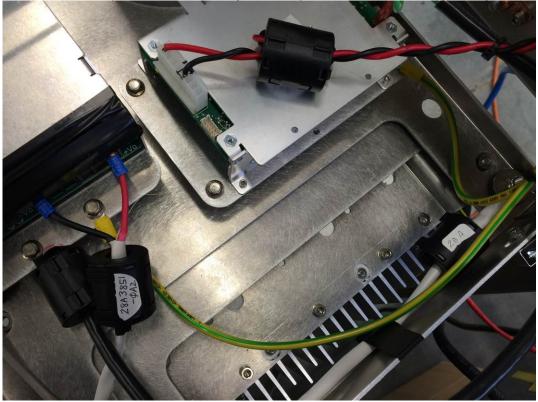
15.4 Setup Photographs:







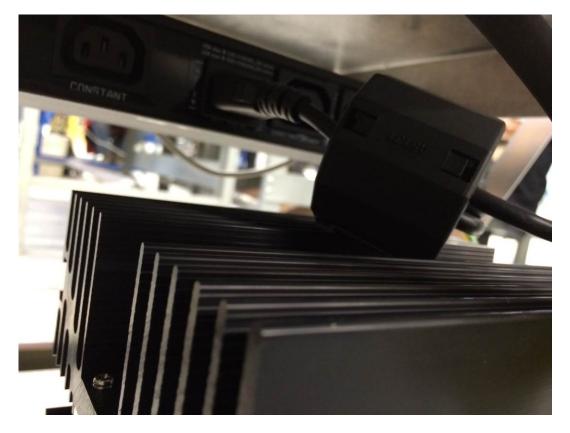
Modifications - Ferrites (Part # documented by the client) on cables as shown in photos prior to testing





Modifications - Ferrites (Part # documented by the client) on cables as shown in photos prior to testing





15.5 Plots/Data:

Narrow Band, Receive Mode, with modifications as shown in photos, 30-1000 MHz

Test Information:

Date and Time	3/28/2017
Client and Project Number	LoJack - Qu-00755931
Engineer	Kouma Sinn
Temperature	19C
Humidity	31%
Atmospheric Pressure	1006mbar
Comments	Remote Tower Unit, NB, Rx, 120VAC 60Hz

Graph: not available

Results:

Quasi-Peak

Frequency	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
85.68	34.96	39.08	-4.12	266.00	2.00	Vertical	0.10	-24.82
130.74	36.87	43.52	-6.65	278.00	1.00	Vertical	0.10	-17.63
139.62	40.92	43.52	-2.6	120.00	3.98	Horizontal	0.10	-18.46
173.52	40.72	43.52	-2.8	210.00	3.93	Horizontal	0.10	-20.00
199.98	38.57	43.52	-4.95	176.00	3.50	Horizontal	0.10	-18.73
212.76	35.81	43.52	-7.71	209.00	3.95	Horizontal	0.10	-20.60
256.14	28.55	46.33	-17.78	0.00	2.50	Horizontal	0.10	-19.39
619.32	35.98	46.33	-10.35	334.00	1.75	Horizontal	0.10	-10.58
796.26	37.36	46.33	-8.97	225.00	3.77	Horizontal	0.10	-7.23

Peak

Frequency	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
85.68	40.61	No limit	No limit	266.00	2.00	Vertical	0.10	-24.82
130.74	42.11	No limit	No limit	278.00	1.00	Vertical	0.10	-17.63
139.62	45.15	No limit	No limit	120.00	3.98	Horizontal	0.10	-18.46
173.52	46.43	No limit	No limit	210.00	3.93	Horizontal	0.10	-20.00
199.98	44.69	No limit	No limit	176.00	3.50	Horizontal	0.10	-18.73
212.76	39.62	No limit	No limit	209.00	3.95	Horizontal	0.10	-20.60
619.32	37.46	No limit	No limit	334.00	1.75	Horizontal	0.10	-10.58
796.26	38.74	No limit	No limit	225.00	3.77	Horizontal	0.10	-7.23
256.14	31.87	No limit	No limit	0.00	2.50	Horizontal	0.10	-19.39

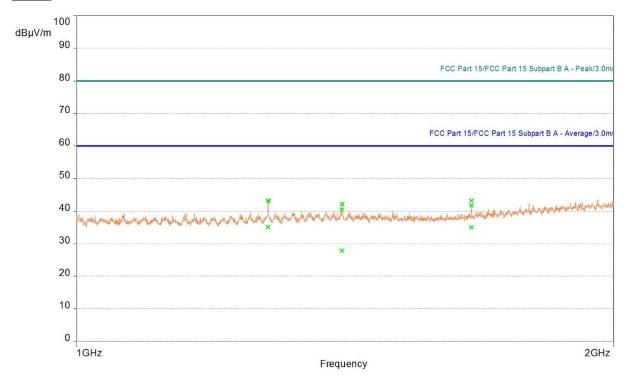
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Narrow Band, Receive Mode, with modifications as shown in photos, 1-2 GHz

Test Information:

Date and Time	4/9/17
Client and Project Number	LoJack_Rx, NB
Engineer	Kouma Sinn
Temperature	21C
Humidity	23%
Atmospheric Pressure	1006mbar
Comments	Rx, NB

Graph:



Results:

Ava

7119								
Frequency	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
1280.5	35.12	60.00	-24.88	240.00	1.25	Horizontal	0.10	-1.05
1408.5	27.87	60.00	-32.13	184.00	1.74	Horizontal	0.10	-0.70
1665	35.01	60.00	-24.99	83.00	2.76	Horizontal	0.10	-0.20

Peak

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. time (s)	Correction (dB)
1280.5	43.14	80.00	-36.86	240.00	1.25	Horizontal	0.10	-1.05
1408.5	40.38	80.00	-39.62	184.00	1.74	Horizontal	0.10	-0.70
1665	43.19	80.00	-36.81	83.00	2.76	Horizontal	0.10	-0.20

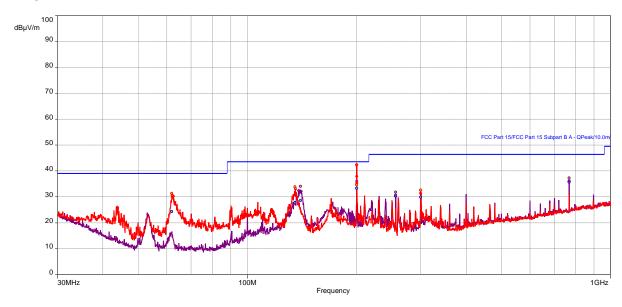
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Wide Band, Receive Mode, with modifications as shown in photos, 30-1000 MHz

Test Information:

Date and Time	03/29/2017
Client and Project Number	LoJack_Qu-00755931_03-29-2017
Engineer	Vathana Ven
Temperature	21 deg C
Humidity	30%
Atmospheric Pressure	1008 mB
Comments	120VAC 60Hz WB Rx mode

Graph:



Results:

Quasi-Peak

Quasi-i can								
Frequency	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
61.92	24.23	39.00	-14.77	355.00	1.36	Vertical	0.10	-24.92
135.3	27.65	43.50	-15.85	8.00	1.34	Vertical	0.10	-18.06
199.98	33.25	43.50	-10.25	266.00	1.36	Vertical	0.10	-18.73
300	29.84	46.40	-16.56	0.00	1.36	Vertical	0.10	-17.42
139.98	28.57	43.50	-14.93	199.00	3.97	Horizontal	0.10	-18.49
256.14	30.26	46.40	-16.14	86.00	3.35	Horizontal	0.10	-19.39
768.42	35.57	46.40	-10.83	209.00	1.50	Horizontal	0.10	-7.85

Peak

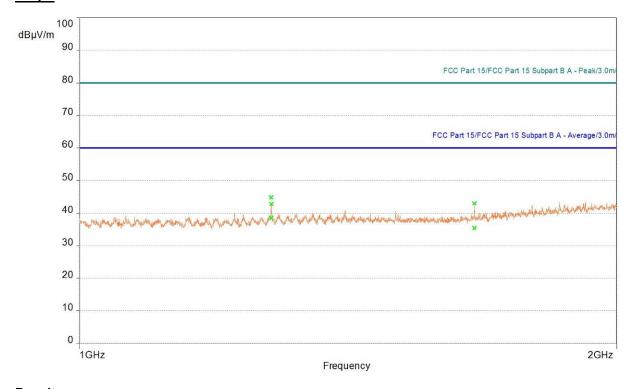
Frequency	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
61.92	31.27	39.00	-7.73	355.00	1.36	Vertical	0.10	-24.92
135.3	33.90	43.50	-9.60	8.00	1.34	Vertical	0.10	-18.06
199.98	34.65	43.50	-8.85	266.00	1.36	Vertical	0.10	-18.73
300	32.63	46.40	-13.77	0.00	1.36	Vertical	0.10	-17.42
139.98	34.01	43.50	-9.49	199.00	3.97	Horizontal	0.10	-18.49
256.14	31.81	46.40	-14.59	86.00	3.35	Horizontal	0.10	-19.39
768.42	37.25	46.40	-9.15	209.00	1.50	Horizontal	0.10	-7.85

Wide Band, Receive Mode, with modifications as shown in photos, 1-2 GHz

Test Information:

Date and Time	4/9/17
Client and Project Number	LoJack_Rx, NB
Engineer	Kouma Sinn
Temperature	21C
Humidity	23%
Atmospheric Pressure	1006mbar
Comments	Wide Band, Receive Mode

Graph:



Results:

Avg

Frequency	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
1280.5	38.47	60.00	-21.53	320.00	2.87	Horizontal	0.10	-1.05
1665	35.38	60.00	-24.62	148.00	3.86	Horizontal	0.10	-0.20

Peak

Frequency	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
1280.5	44.75	80.00	-35.25	320.00	2.87	Horizontal	0.10	-1.05
1665	42.93	80.00	-37.07	148.00	3.86	Horizontal	0.10	-0.20

Intertek

Report Number: 102940158BOX-001b Issued: 04/25/2017

Test Personnel:	Kouma Sinn 43	Test Date:	03/28/2017, 04/09/2017
	Vathana Ven		03/29/2017
Supervising/Reviewing Engineer:			
(Where Applicable)	N/A		
Product Standard:	FCC Part 90	Limit Applied:	Per standard
Input Voltage:	120VAC 60Hz		
Pretest Verification w/		Ambient Temperature:	19, 21, 21 °C
Ambient Signals or			
· ·	BB Source	Relative Humidity:	31, 30, 23 %
		Atmospheric Pressure:	1006, 1008, 1006 mbars

Deviations, Additions, or Exclusions: None

16 AC Mains Conducted Emissions

16.1 Method

Tests are performed in accordance with FCC Part 15B, 15.107.

TEST SITE: EMC Lab

<u>The EMC Lab</u> has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
AC Line Conducted			
Emissions	150 kHz - 30 MHz	2.8dB	3.4dB
Telco Port Emissions	150 kHz - 30 MHz	3.2dB	5.0dB

As shown in the table above our conducted emissions $U_{\it lab}$ is less than the corresponding $U_{\it CISPR}$ reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculations

The following is how net line-conducted readings were determined:

NF = RF + LF + CF + AF

Where NF = Net Reading in $dB\mu V$

RF = Reading from receiver in $dB\mu V$

LF = LISN or ISN Correction Factor in dB

CF = Cable Correction Factor in dB

AF = Attenuator Loss Factor in dB

To convert from $dB\mu V$ to μV or mV the following was used:

UF =
$$10^{(NF/20)}$$
 where UF = Net Reading in μ V
NF = Net Reading in dB μ V

Example:

NF = RF + LF + CF + AF =
$$28.5 + 0.2 + 0.4 + 20.0 = 49.1 \text{ dB}\mu\text{V}$$

UF = $10^{(49.1 \text{ dB}\mu\text{V}\,/\,20)} = 285.1 \,\mu\text{V/m}$

Alternately, when C5 Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". "TF" is the Transducer Factor; in this case LISN or ISN loss.

Intertek

Report Number: 102940158BOX-001b Issued: 04/25/2017

16.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
LISN34'	LISN - CISPR16 Compliant 9kHz-30MHz	Com-Power	LI-215A	191956	06/27/2016	06/27/2017
ROS002'	9kHz to 3GHz EMI Test Receiver	Rohde & Schwartz	ESCI 1166.5950K03	100067	07/29/2016	07/29/2017
CBLBNC7'	30 ft 50 ohm coax, BNC - BNC	ITT Pomona	RG 58 C/U	CBLBNC7	01/10/2017	01/10/2018
DS22'	Attenuator, 20dB	Mini Circuits	20dB, 50 ohm	DS22	09/08/2016	09/08/2017

Software Utilized:

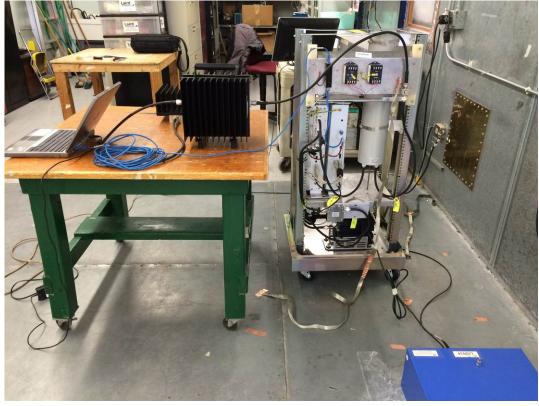
Name	Manufacturer	Version
Compliance 5	Teseq	5.26.46.46

16.3 Results:

The sample tested was found to Comply.

16.4 Setup Photographs:





16.5 Plots/Data:

Narrow Band, Receive Mode

Test Information

Test Details

Test Details

User Entry

Test:

LISN - FCC15 Class A

Project:

Daily check - LoJack

Test Notes:

NB, Rx, 120VAC 60Hz

Temperature:

22C

Humidity:

22%, 1008mbar

Tested by:

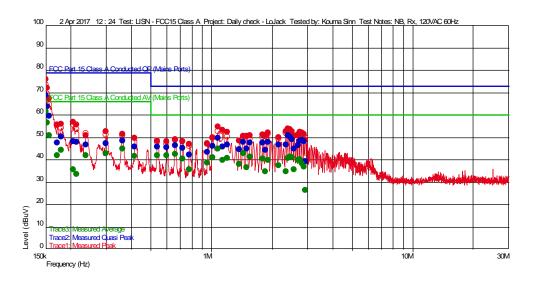
Kouma Sinn

Test Started:

2 Apr 2017 12:24

Additional Information

Prescan Emission Graph



Measured Peak Value
 Measured Quasi Peak Value
 Measured Average Value
 Maximum Value of Mast and Turntable

Swept Peak DataSwept Quasi Peak DataSwept Average Data

Emissions Test Data

Transa. Massura	ad Ougai Dook							
Trace2: Measure		TE	DA : CI	Line:t/alD\/\	Manain (dDu) ()	DD\\\/\L=\	Commont	LINE
Frequency(Hz) 2.926 M	Level(dBuV) 39.20	TF 0.020	PA+CL 20.576	Limit(dBuV)	Margin(dBuV) -33.80	RBW(Hz)	Comment	LINE
2.926 W 416.9 k		0.020		73.000		9 k 9 k		L1
237.55 k	45.87 46.71	0.026	20.578	79.000 79.000	-33.13 -32.29	9 k		N L1
298.75 k	47.18	0.030	20.589 20.586	79.000	-31.82	9 k		N
171.25 k	47.46	0.030	20.593	79.000	-31.54	9 k		N
213.75 k	47.96	0.039	20.591	79.000	-31.04	9 k		N
776.45 k	42.24	0.020	20.557	73.000	-30.76	9 k		L1
206.1 k	48.27	0.039	20.591	79.000	-30.73	9 k		L1
362.5 k	48.60	0.028	20.582	79.000	-30.40	9 k		N.
958.35 k	43.48	0.020	20.545	73.000	-29.52	9 k		L1
178.9 k	50.35	0.057	20.593	79.000	-28.65	9 k		L1
1.855 M	44.42	0.020	20.558	73.000	-28.58	9 k		L1
1.378 M	44.77	0.020	20.550	73.000	-28.23	9 k		N
2.575 M	44.78	0.020	20.570	73.000	-28.22	9 k		L1
1.495 M	44.99	0.020	20.552	73.000	-28.01	9 k		L1
717.8 k	45.20	0.020	20.560	73.000	-27.80	9 k		N
600.5 k	45.49	0.020	20.567	73.000	-27.51	9 k		L1
539.3 k	45.68	0.022	20.571	73.000	-27.32	9 k 9 k		L1
1.135 M 1.018 M	45.91 46.13	0.020 0.020	20.545	73.000	-27.09 -26.87	9 k		L1 L1
2.701 M	46.50	0.020	20.543 20.572	73.000 73.000	-26.50	9 k		L1
662.55 k	46.53	0.020	20.564	73.000	-26.47	9 k		L1
2.161 M	46.64	0.020	20.563	73.000	-26.36	9 k		N L
1.198 M	46.75	0.020	20.546	73.000	-26.25	9 k		N
2.35 M	46.85	0.020	20.566	73.000	-26.15	9 k		N
1.558 M	47.57	0.020	20.553	73.000	-25.43	9 k		N
1.801 M	47.73	0.020	20.557	73.000	-25.27	9 k		N
1.918 M	47.87	0.020	20.559	73.000	-25.13	9 k		L1
1.441 M	47.99	0.020	20.551	73.000	-25.01	9 k		L1
2.881 M	48.07	0.020	20.575	73.000	-24.93	9 k		L1
2.764 M	48.36	0.020	20.573	73.000	-24.64	9 k		N
2.827 M	48.81	0.020	20.575	73.000	-24.19	9 k		N
2.521 M 1.081 M	49.19 49.68	0.020	20.569	73.000	-23.81 -23.32	9 k 9 k		N N
2.467 M	50.16	0.020 0.020	20.544 20.568	73.000 73.000	-23.32 -22.84	9 k		L1
2.404 M	50.82	0.020	20.567	73.000	-22.18	9 k		N
156.8 k	59.41	0.075	20.594	79.000	-19.59	9 k		N
152.55 k	63.86	0.078	20.594	79.000	-15.14	9 k		Ľ1
150.0 k	68.91	0.080	20.594	79.000	-10.09	9 k		L1
Trace3: Measure	ed Average							
Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
Frequency(Hz) 2.926 M	Level(dBuV) 26.42	0.020	20.576	60.000	-33.58	9 k	Comment	L1
Frequency(Hz) 2.926 M 213.75 k	Level(dBuV) 26.42 33.48	0.020 0.039	20.576 20.591	60.000 66.000	-33.58 -32.52	9 k 9 k	Comment	L1 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k	Level(dBuV) 26.42 33.48 35.79	0.020 0.039 0.039	20.576 20.591 20.591	60.000 66.000 66.000	-33.58 -32.52 -30.21	9 k 9 k 9 k	Comment	L1 N L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M	Level(dBuV) 26.42 33.48 35.79 34.65	0.020 0.039 0.039 0.020	20.576 20.591 20.591 20.558	60.000 66.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35	9 k 9 k 9 k 9 k	Comment	L1 N L1 L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68	0.020 0.039 0.039 0.020 0.020	20.576 20.591 20.591 20.558 20.566	60.000 66.000 66.000 60.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32	9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64	0.020 0.039 0.039 0.020 0.020 0.026	20.576 20.591 20.591 20.558 20.566 20.578	60.000 66.000 66.000 60.000 60.000 66.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36	9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72	0.020 0.039 0.039 0.020 0.020 0.026 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.570	60.000 66.000 66.000 60.000 60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28	9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.570 20.557	60.000 66.000 66.000 60.000 60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21	9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72	0.020 0.039 0.039 0.020 0.020 0.026 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.570	60.000 66.000 66.000 60.000 60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28	9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.020 0.036	20.576 20.591 20.591 20.558 20.566 20.578 20.570 20.557 20.589	60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 66.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1 L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.020 0.036 0.063	20.576 20.591 20.591 20.558 20.566 20.578 20.570 20.557 20.589 20.593	60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 66.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1 L1 L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 2.881 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.570 20.557 20.589 20.593 20.552 20.5566 20.575	60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 60.000 60.000 60.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1 L1 L1 N L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.811 M 2.161 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.030	20.576 20.591 20.591 20.558 20.566 20.578 20.570 20.557 20.589 20.593 20.552 20.586 20.575 20.563	60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 60.000 60.000 60.000 60.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1 L1 N L1 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.570 20.557 20.589 20.593 20.552 20.586 20.575 20.563 20.550	60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.16 -23.16 -23.13 -22.58 -21.86	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N N L1 L1 L1 N L1 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020 0.020 0.020 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.557 20.557 20.559 20.552 20.568 20.575 20.563 20.550 20.550 20.550 20.553	60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1 L1 N L1 N L1 N N L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020 0.020 0.020	20.576 20.591 20.591 20.558 20.566 20.570 20.557 20.589 20.593 20.552 20.586 20.575 20.563 20.550 20.553 20.555	60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1 L1 L1 N L1 N N L1 N N N L1 N N N L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020 0.020 0.020 0.057 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.552 20.586 20.575 20.563 20.550 20.550 20.550 20.555 20.550 20.555	60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.16 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 2.98.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020 0.020 0.020 0.020 0.020 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.557 20.557 20.559 20.552 20.575 20.563 20.575 20.550 20.575 20.553 20.575 20.553	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020 0.020 0.020 0.057 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.552 20.586 20.575 20.563 20.550 20.550 20.550 20.555 20.550 20.555	60.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.72 -21.62 -21.72 -21.62 -21.42 -20.99	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 N N L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 2.98.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.557 20.557 20.559 20.552 20.563 20.575 20.563 20.575 20.550 20.575 20.552 20.575 20.555 20	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N N L1 L1 N L1 N L1 N L1 N L1 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.80 39.80 39.90 40.16	0.020 0.039 0.039 0.020 0.020 0.020 0.020 0.020 0.036 0.063 0.020 0.030 0.020 0.020 0.020 0.020 0.020 0.057 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.577 20.589 20.593 20.552 20.586 20.575 20.563 20.555 20.545 20.545 20.545 20.545 20.545 20.545 20.545 20.545 20.545 20.559 20.559 20.559 20.573	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.86 39.90 40.16 40.34	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.552 20.552 20.563 20.575 20.563 20.575 20.582 20.575 20.582 20.575 20.582 20.575 20.585 20.575 20	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 N 11 11 N N 11 11 N N 11 N N N 11 N N N 11 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.026 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.559 20.552 20.553 20.555 20.550 20.555 20.556 20	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.72 -21.62 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 x 11 11 x
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56 40.71	0.020 0.039 0.039 0.020 0.020 0.020 0.020 0.020 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.589 20.593 20.552 20.586 20.575 20.583 20.575 20.545 20.545 20.545 20.545 20.545 20.545 20.559 20.559 20.573 20.559 20.559 20.559 20.557 20.568	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -19.84 -19.66 -19.84 -19.66 -19.44	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 x 11 11 x x 11 11 x 11 x 11 x 11 x
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56 40.71 40.82	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.552 20.582 20.575 20.563 20.575 20.582 20.575 20.582 20.575 20.582 20.575 20.582 20.575 20.582 20.575 20.582 20.577 20.545 20.557 20.557 20.545 20.557 20.557	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 N 11 11 N N 11 11 N N 11 N 11 N 11 N
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.198 M 2.404 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10	0.020 0.039 0.039 0.020 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.577 20.557 20.559 20.593 20.552 20.563 20.575 20.563 20.575 20.582 20.575 20.572 20.572 20.573 20.575 20.573 20.575 20.576 20.575 20.576 20	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 x 11
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.018 M 2.404 M 1.018 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15	0.020 0.039 0.039 0.020 0.020 0.020 0.020 0.020 0.036 0.063 0.020 0.030 0.020 0.020 0.020 0.020 0.057 0.020	20.576 20.591 20.591 20.558 20.566 20.578 20.577 20.557 20.589 20.593 20.552 20.586 20.575 20.583 20.575 20.545 20.545 20.545 20.545 20.559 20.573 20.559 20.573 20.559 20.573 20.559 20.573 20.560 20.573 20.560 20.573 20.5659 20.567 20.567 20.567 20.567 20.568	60.000 66.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 x 11 11 x x 11 x 11 x 11 x 11 x 11
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.018 M 2.521 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15 41.22	0.020 0.039 0.039 0.020 0.020 0.026 0.020 0.036 0.063 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.552 20.563 20.575 20.563 20.575 20.563 20.575 20.584 20.575 20.585	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85 -18.78	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 x 11 11 x
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.018 M 2.521 M 1.558 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15 41.22	0.020 0.039 0.039 0.020 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.5589 20.593 20.552 20.563 20.575 20.563 20.575 20.563 20.575 20.5646 20.577 20.5660 20.573 20.5660 20.557 20.546 20.567 20.546 20.567 20.546 20.567 20.546	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85 -18.78	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	נו א א נו א א א א א א נונו א נו א נו א
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.018 M 2.521 M 1.558 M 2.467 M 600.5 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15 41.22	0.020 0.039 0.039 0.020 0.020 0.020 0.020 0.020 0.036 0.063 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.559 20.593 20.552 20.586 20.575 20.583 20.575 20.583 20.575 20.5845 20.575 20.545 20.575 20.545 20.559 20.573 20.559 20.573 20.559 20.573 20.559 20.559 20.559 20.557 20.568 20.575 20.568 20.575 20.568 20.575 20.569 20.573 20.569 2	60.000 66.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85 -18.78 -18.78 -18.78	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 2 11 11 2
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.018 M 2.521 M 1.558 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15 41.22 41.22 41.98	0.020 0.039 0.039 0.020 0.020 0.020 0.026 0.020 0.036 0.063 0.020 0.030 0.020	20.576 20.591 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.5589 20.593 20.552 20.563 20.575 20.563 20.575 20.563 20.575 20.5646 20.577 20.5660 20.573 20.5660 20.557 20.546 20.567 20.546 20.567 20.546 20.567 20.546	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85 -18.78	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	נו א א נו א א א א א א נונו א נו א נו א
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.018 M 2.521 M 1.558 M 2.467 M 600.5 k 539.3 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.80 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15 41.22 41.98	0.020 0.039 0.039 0.020 0.020 0.020 0.020 0.020 0.036 0.063 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.559 20.593 20.552 20.586 20.575 20.583 20.575 20.583 20.575 20.5845 20.575 20.545 20.573 20.559 20.573 20.559 20.573 20.559 20.573 20.559 20.573 20.566 20.575 20.567 20.567 20.567 20.568	60.000 66.000 66.000 60.000 60.000 60.000 60.000 66.000 66.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85 -18.78 -18.78 -18.78 -18.78 -18.78 -17.95 -17.33 -17.02	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	11 x 11 11 x
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.018 M 2.404 M 1.018 M 2.521 M 1.558 M 2.467 M 600.5 k 539.3 k 662.55 k 1.441 M 156.8 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15 41.22 41.98 42.05 42.67 42.98 50.88	0.020 0.039 0.039 0.020 0.020 0.020 0.026 0.020 0.036 0.063 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.552 20.563 20.575 20.563 20.575 20.563 20.575 20.563 20.575 20.564 20.577 20.545 20.559 20.577 20.545 20.559 20.577 20.545 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.558	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85 -18.78 -18.78 -18.78 -18.78 -17.33 -17.02 -15.12	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	בונונו אאני או איי איי איי איי איי איי איי איי איי
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.198 M 2.404 M 1.018 M 2.404 M 1.558 M 2.467 M 600.5 k 539.3 k 662.55 k 1.441 M 156.8 k 1.081 M	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15 41.22 41.98 42.05 42.67 42.98 50.88 44.90	0.020 0.039 0.039 0.020 0.020 0.020 0.020 0.020 0.036 0.036 0.030 0.020	20.576 20.591 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.589 20.593 20.552 20.563 20.575 20.563 20.575 20.563 20.575 20.564 20.575 20.566 20.575 20.566 20.577 20.566 20.577 20.566 20.577 20.566 20.577 20.566 20.577 20.566 20.577 20.566 20.567 20.573 20.5667 20.573 20.5668 20.567 20.567 20.567 20.568	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.48 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85 -18.78 -18.90 -18.85 -18.78 -18.02 -17.33 -17.02 -15.12 -15.10	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	מאנונונאאנאאאנונואנטאנטניאנאאנאאנאאנאאנאאנאאנאאנאאנאאנאאנאאנאאנ
Frequency(Hz) 2.926 M 213.75 k 206.1 k 1.855 M 2.35 M 416.9 k 2.575 M 776.45 k 237.55 k 171.25 k 1.495 M 298.75 k 2.881 M 2.161 M 1.378 M 1.378 M 178.9 k 2.827 M 958.35 k 362.5 k 2.701 M 1.135 M 1.918 M 2.764 M 717.8 k 1.801 M 1.198 M 2.404 M 1.018 M 2.404 M 1.018 M 2.521 M 1.558 M 2.467 M 600.5 k 539.3 k 662.55 k 1.441 M 156.8 k	Level(dBuV) 26.42 33.48 35.79 34.65 34.68 41.64 35.72 35.79 41.87 42.06 36.52 42.84 36.87 37.42 38.14 44.28 38.38 38.58 45.01 39.86 39.90 40.16 40.34 40.56 40.71 40.82 41.10 41.15 41.22 41.98 42.05 42.67 42.98 50.88	0.020 0.039 0.039 0.020 0.020 0.020 0.026 0.020 0.036 0.063 0.020	20.576 20.591 20.591 20.558 20.566 20.577 20.557 20.557 20.552 20.563 20.575 20.563 20.575 20.563 20.575 20.563 20.575 20.564 20.577 20.545 20.559 20.577 20.545 20.559 20.577 20.545 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.546 20.557 20.558	60.000 66.000 60.000	-33.58 -32.52 -30.21 -25.35 -25.32 -24.36 -24.28 -24.21 -24.13 -23.94 -23.16 -23.13 -22.58 -21.86 -21.72 -21.62 -21.42 -20.99 -20.20 -20.14 -20.10 -19.84 -19.66 -19.44 -19.29 -19.18 -18.90 -18.85 -18.78 -18.78 -18.78 -18.78 -17.33 -17.02 -15.12	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	בונונו אאני או איי איי איי איי איי איי איי איי איי

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Narrow Band, Transmit Mode

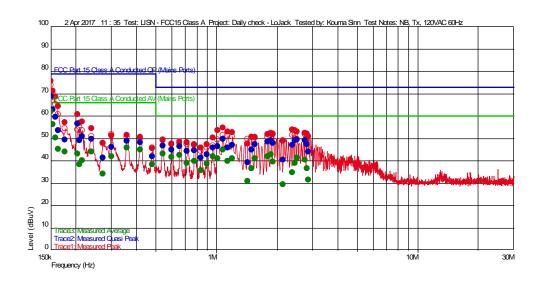
Test Information

Test Details Test: Project: Test Notes: Temperature: Humidity: Tested by: Test Started:

User Entry LISN - FCC15 Class A Daily check - LoJack NB, Tx, 120VAC 60Hz 22C 22%, 1008mbar Kouma Sinn 2 Apr 2017 11 : 35

Additional Information

Prescan Emission Graph



Measured Peak Value Measured Quasi Peak Value Measured Average Value

Maximum Value of Mast and Turntable

Swept Peak Data Swept Quasi Peak Data Swept Average Data

Emissions Test Data

Trace2: Measure	ed Ouasi Peak							
Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
273.25 k	41.46	0.033	20.587	79.000	-37.54	9 k	Comment	N
479.8 k	41.94	0.033				9 k		
			20.574	79.000	-37.06			L1
1.432 M	39.14	0.020	20.550	73.000	-33.86	9 k		L1
302.15 k	46.15	0.030	20.585	79.000	-32.85	9 k		L1
2.152 M	40.32	0.020	20.563	73.000	-32.68	9 k		L1
838.5 k	41.38	0.020	20.553	73.000	-31.62	9 k		L1
419.45 k	48.29	0.026	20.578	79.000	-30.71	9 k		L1
359.1 k	48.95	0.028	20.582	79.000	-30.05	9 k		N
901.4 k	42.96	0.020	20.549	73.000	-30.04	9 k		N
208.65 k	49.09	0.039	20.591	79.000	-29.91	9 k		N
177.2 k	49.34	0.058	20.593	79.000	-29.66	9 k		L1
239.25 k	49.65	0.036	20.589	79.000	-29.35	9 k		L1
2.872 M	44.15	0.020	20.575	73.000	-28.85	9 k		L1
716.95 k	44.45	0.020	20.560	73.000	-28.55	9 k		L1
779.85 k	44.49	0.020	20.556	73.000	-28.51	9 k		L1
215.45 k	51.01	0.038	20.590	79.000	-27.99	9 k		L1
1.495 M	45.04	0.020	20.552	73.000	-27.96	9 k		N.
599.65 k	45.07	0.020	20.567	73.000	-27.93	9 k		N
						9 k		N N
1.135 M	45.75	0.020	20.545	73.000	-27.25			
960.9 k	45.95	0.020	20.545	73.000	-27.05	9 k		L1
659.15 k	46.32	0.020	20.564	73.000	-26.68	9 k		L1
1.018 M	46.45	0.020	20.543	73.000	-26.55	9 k		N
541.0 k	46.73	0.022	20.571	73.000	-26.27	9 k		L1
2.395 M	46.96	0.020	20.567	73.000	-26.04	9 k		N
1.198 M	47.10	0.020	20.546	73.000	-25.90	9 k		N
1.558 M	47.33	0.020	20.553	73.000	-25.67	9 k		L1
2.818 M	47.39	0.020	20.574	73.000	-25.61	9 k		N
163.6 k	53.47	0.069	20.593	79.000	-25.53	9 k		N
1.918 M	47.80	0.020	20.559	73.000	-25.20	9 k		L1
1.801 M	48.38	0.020	20.557	73.000	-24.62	9 k		L1
2.764 M	49.02	0.020	20.573	73.000	-23.98	9 k		N.
2.458 M	49.08	0.020	20.568	73.000	-23.92	9 k		N
1.864 M	49.18	0.020	20.558	73.000	-23.82	9 k		N
2.521 M			20.569			9 k		N N
	49.28	0.020		73.000	-23.72			
1.081 M	49.66	0.020	20.544	73.000	-23.34	9 k		N
204.4 k	56.60	0.040	20.591	79.000	-22.40	9 k		L1
159.35 k	59.56	0.073	20.594	79.000	-19.44	9 k		L1
154.25 k	62.92	0.077	20.594	79.000	-16.08	9 k		L1
150.0 k	68.76	0.080	20.594	79.000	-10.24	9 k		L1
Trace3: Measure								
Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
Frequency(Hz) 273.25 k	Level(dBuV) 34.07	0.033	20.587	66.000	-31.93	9 k	Comment	N
Frequency(Hz) 273.25 k 2.152 M	Level(dBuV) 34.07 29.29	0.033 0.020	20.587 20.563	66.000 60.000	-31.93 -30.71	9 k 9 k	Comment	N L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M	Level(dBuV) 34.07 29.29 30.75	0.033 0.020 0.020	20.587 20.563 20.550	66.000 60.000 60.000	-31.93 -30.71 -29.25	9 k 9 k 9 k	Comment	N L1 L1
Frequency(Hz) 273.25 k 2.152 M	Level(dBuV) 34.07 29.29	0.033 0.020	20.587 20.563	66.000 60.000	-31.93 -30.71	9 k 9 k	Comment	N L1 L1 L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M	Level(dBuV) 34.07 29.29 30.75	0.033 0.020 0.020	20.587 20.563 20.550	66.000 60.000 60.000	-31.93 -30.71 -29.25	9 k 9 k 9 k	Comment	N L1 L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M	Level(dBuV) 34.07 29.29 30.75 31.55	0.033 0.020 0.020 0.020	20.587 20.563 20.550 20.575	66.000 60.000 60.000 60.000	-31.93 -30.71 -29.25 -28.45	9 k 9 k 9 k 9 k	Comment	N L1 L1 L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31	0.033 0.020 0.020 0.020 0.024	20.587 20.563 20.550 20.575 20.574	66.000 60.000 60.000 60.000 66.000	-31.93 -30.71 -29.25 -28.45 -27.69	9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44	0.033 0.020 0.020 0.020 0.024 0.039	20.587 20.563 20.550 20.575 20.574 20.591	66.000 60.000 60.000 60.000 66.000 66.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56	9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 L1 N
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567	66.000 60.000 60.000 60.000 66.000 66.000 60.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25	9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 L1 N L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20	0.033 0.020 0.020 0.020 0.024 0.039 0.038	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553	66.000 60.000 60.000 60.000 66.000 66.000 66.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80	9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 L1 N L1 N
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 L1 N L1 N
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.552	66.000 60.000 60.000 66.000 66.000 66.000 60.000 60.000 66.000 66.000	-31.93 -30.71 -29.25 -28.45 -27.69 -25.80 -25.25 -24.22 -24.14 -23.57	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 N L1 N L1 L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.030	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.552 20.574	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 L1 N L1 N L1 N
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.030 0.020 0.020 0.020	20.587 20.563 20.550 20.575 20.577 20.574 20.591 20.567 20.563 20.585 20.552 20.574 20.591	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 N L1 N L1 N L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.020 0.020 0.020 0.040 0.040	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.555 20.552 20.574 20.591 20.593	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 66.000 66.000 66.000	-31.93 -30.71 -29.25 -28.45 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.99	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 N L1 N L1 N L1 L1 N
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.030 0.020 0.020 0.040 0.058	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.552 20.574 20.591 20.593 20.589	66.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	31.93 -30.71 -29.25 -28.45 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.89	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 N L1 N L1 N L1 N L1 L1 L1 L1 N N L1 L1 L1 L1 L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.030 0.020 0.020 0.040 0.058 0.036	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.552 20.574 20.593 20.593 20.589	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.99 -21.89 -21.49	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 N L1 N L1 L1 N N L1 L1 L1 N N L1 L1 L1 L1 L1 L1 L1 L1 N N N L1 L1 L1 N N
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.020 0.020 0.040 0.058 0.036 0.026	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.574 20.591 20.593 20.589 20.589 20.589 20.549 20.578	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.99 -21.89 -21.49 -21.05	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 N L1 N N L1 L1 L1 L1 N N N L1 L1 L1 L1 N N N L1 L1 L1 N N N L1 L1 L1 N N L1 L1 N L1 N L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.020 0.040 0.058 0.036 0.020 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.595 20.567 20.553 20.585 20.552 20.574 20.591 20.593 20.589 20.549 20.549 20.578 20.560	66.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000	31.93 -30.71 -29.25 -28.45 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.89 -21.89 -21.89 -21.05 -20.94	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 N L1 N N L1 L1 N N L1 L1 N L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 719.45 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.030 0.020 0.020 0.040 0.058 0.036 0.020 0.020 0.026 0.020 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.552 20.574 20.591 20.593 20.589 20.578 20.578 20.578 20.578	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 60.000 60.000	31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.99 -21.89 -21.49 -21.05 -20.92	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N L1 L1 L1 N L1 L1 N L1
Frequency(Hz) 273.25 k 2.152 M 1.432 M 1.432 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.020 0.030 0.020 0.040 0.058 0.036 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.574 20.591 20.593 20.589 20.578 20.578 20.589 20.578 20.560 20.560 20.568	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.99 -21.89 -21.89 -21.49 -21.05 -20.94 -20.92 -20.91	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N 11 11 11 N 11 N N 11 11 N N 11 11 N N N 11 11
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.030 0.020 0.020 0.040 0.058 0.036 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.585 20.567 20.553 20.585 20.552 20.574 20.591 20.593 20.549 20.549 20.558 20.558 20.558 20.559 20.559	66.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000	31.93 -30.71 -29.25 -28.45 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.89 -21.89 -21.89 -21.92 -20.94 -20.92 -20.50	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 203.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M 359.1 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09 39.50 45.70	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.030 0.020 0.020 0.040 0.058 0.036 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.552 20.574 20.593 20.593 20.589 20.578 20.568 20.578 20.578 20.568 20.578 20.568 20.568	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000	31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.99 -21.89 -21.49 -21.05 -20.92 -20.91 -20.50 -20.30	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M 359.1 k 1.135 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09 39.50 45.70 39.77	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.030 0.020 0.030 0.020 0.040 0.058 0.036 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.555 20.555 20.555 20.559 20.591 20.593 20.589 20.578 20.566 20.593 20.568 20.5593 20.5593 20.5582 20.5582 20.5582	66.000 60.000 60.000 60.000 66.000 66.000 60.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	-31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -22.73 -21.99 -21.89 -21.89 -21.49 -21.05 -20.94 -20.92 -20.91 -20.50 -20.30 -20.23	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N 11 11 11 11 11 11 11 11 11 11 11 11 11
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M 359.1 k 1.135 M 779.85 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09 39.50 45.70 39.77	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.030 0.020 0.020 0.040 0.058 0.036 0.020 0.020 0.026 0.020 0.026 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.555 20.574 20.591 20.593 20.549 20.549 20.568 20.558 20.558 20.558 20.559 20.559 20.559 20.559 20.559 20.559 20.559 20.559 20.559 20.559 20.559 20.559	66.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 60.000 66.000 60.000 60.000 60.000 60.000	31.93 -30.71 -29.25 -28.45 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.89 -21.89 -21.89 -21.99 -20.94 -20.94 -20.92 -20.91 -20.50 -20.30 -20.20	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N
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Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M 359.1 k 1.135 M 779.85 k 2.764 M 1.558 M 1.1018 M 2.521 M 599.65 k 1.801 M 960.9 k 659.15 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09 39.50 45.70 39.77 39.77 39.80 40.39 40.91 40.94 41.07 41.20 41.51 41.81 41.92 42.62	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.030 0.020 0.020 0.040 0.058 0.036 0.020 0.026 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.592 20.567 20.553 20.585 20.552 20.574 20.593 20.589 20.549 20.560 20.568 20.559 20.559 20.559 20.555 20.555 20.556 20.556 20.556 20.556 20.556 20.556 20.556 20.556 20.556 20.556 20.557	66.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000	31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.89 -21.89 -21.89 -21.49 -20.94 -20.92 -20.94 -20.92 -20.91 -20.50 -20.30 -20.20 -19.61 -19.06 -18.93 -18.49 -18.19 -18.08 -17.38	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	וווא אא א אוא און א א מונא אווא און א א מונא און א א מונא און אוא און א א מונא און א און א א מונא און א און און א און און א און און א און און
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M 359.1 k 1.135 M 779.85 k 2.764 M 1.558 M 1.198 M 1.018 M 2.521 M 599.65 k 1.801 M 960.9 k 659.15 k 1.864 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09 39.50 45.70 39.77 39.80 40.91 40.94 41.07 41.20 41.51 41.81 41.92 42.62 42.80	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.030 0.020 0.020 0.020 0.036 0.020 0.026 0.020 0.026 0.020	20.587 20.563 20.550 20.575 20.575 20.575 20.597 20.567 20.553 20.552 20.552 20.557 20.553 20.552 20.574 20.593 20.593 20.568 20.568 20.568 20.568 20.552 20.573 20.553 20.555 20.555 20.555 20.555 20.574 20.573 20.568 20.568 20.568 20.568 20.568 20.568 20.568 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.565 20.566 20.566 20.566 20.567 20.567 20.567 20.567 20.566 20.5664 20.5664 20.5664 20.5664 20.5664 20.5664	66.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 60.000	31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.99 -21.89 -21.49 -21.05 -20.94 -20.92 -20.91 -20.50 -20.30 -20.23 -20.20 -19.61 -19.09 -19.06 -18.93 -18.80 -18.49 -18.19 -18.08 -17.38	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	N 11 11 11 11 12 12 11 11 11 11 11 11 11
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M 359.1 k 1.135 M 779.85 k 2.764 M 1.198 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09 39.50 45.70 39.77 39.80 40.39 40.91 40.94 41.07 41.20 41.51 41.81 41.92 42.62 42.80 43.14	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.030 0.020 0.020 0.040 0.058 0.036 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.5552 20.574 20.591 20.593 20.589 20.549 20.578 20.560 20.568 20.559 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.557 20.5565 20.557 20.5565	66.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 60.000	31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.99 -21.89 -21.49 -21.05 -20.92 -20.91 -20.50 -20.30 -20.23 -20.20 -19.61 -19.09 -19.06 -18.93 -18.89 -18.49 -18.19 -18.08 -17.38 -17.20 -16.86	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	נו אונו או אונו אינו אינו אינו אינו אינו
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 2.818 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M 359.1 k 1.135 M 779.85 k 2.764 M 1.558 M 1.198 M 1.018 M 2.521 M 599.65 k 1.801 M 90.9 k 659.15 k 1.864 M 541.0 k 159.35 k	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09 39.50 45.70 39.77 39.80 40.39 40.91 40.94 41.07 41.20 41.51 41.81 41.92 42.62 42.80 43.14 50.33 44.85	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.020 0.030 0.020 0.020 0.036 0.020 0.026 0.026 0.020 0.026 0.020	20.587 20.563 20.550 20.575 20.575 20.575 20.575 20.585 20.552 20.552 20.552 20.552 20.554 20.593 20.588 20.593 20.588 20.593 20.556 20.557 20.555 20.556 20.557 20.555 20.5564 20.558 20.571 20.558	66.000 60.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 60.000	31.93 -30.71 -29.25 -28.45 -27.69 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.89 -21.89 -21.49 -21.05 -20.94 -20.92 -20.91 -20.50 -20.30 -20.23 -20.20 -19.61 -19.09 -19.06 -18.93 -18.80 -18.89 -18.19	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	או וואל אוא אוא אוא און אוא און אוא און אין אוא און אין אוא און אין אין אין אין אין אין אין אין אין אי
Frequency(Hz) 273.25 k 2.152 M 1.432 M 2.872 M 479.8 k 208.65 k 215.45 k 2.395 M 838.5 k 302.15 k 1.495 M 204.4 k 177.2 k 239.25 k 901.4 k 419.45 k 716.95 k 2.458 M 163.6 k 1.918 M 359.1 k 1.135 M 779.85 k 2.764 M 1.558 M 1.018 M 2.521 M 599.65 k 1.801 M 960.9 k 659.15 k 1.864 M 541.0 k 159.35 k 1.081 M	Level(dBuV) 34.07 29.29 30.75 31.55 38.31 38.44 40.20 34.75 35.78 41.86 36.43 36.53 43.27 44.01 44.11 38.51 44.95 39.06 39.08 45.09 39.50 45.70 39.77 39.77 39.77 39.77 41.20 41.107 41.20 41.51 41.81 41.92 42.62 42.80 43.14 50.33	0.033 0.020 0.020 0.020 0.024 0.039 0.038 0.020 0.020 0.030 0.020 0.020 0.040 0.058 0.036 0.020 0.020 0.026 0.020	20.587 20.563 20.550 20.575 20.574 20.591 20.590 20.567 20.553 20.585 20.5552 20.574 20.591 20.593 20.589 20.549 20.578 20.560 20.568 20.559 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.573 20.556 20.557 20.5565 20.557 20.5565	66.000 60.000 60.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 66.000 60.000	31.93 -30.71 -29.25 -28.45 -27.56 -25.80 -25.25 -24.22 -24.14 -23.57 -23.47 -22.73 -21.89 -21.89 -21.89 -21.99 -20.94 -20.92 -20.94 -20.92 -20.91 -20.50 -20.30 -20.20 -19.61 -19.06 -18.93 -18.49 -18.49 -18.19 -18.19 -18.66 -15.67	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	נועונו אאא אנאואאני אנא מנאל איי איי איי איי איי איי איי איי איי א

Non-Specific Radio Report Shell Rev. August 2015 Client: LoJack Corporation / Model RTU5 (Wide Band and Narrow Band) Page 78 of 84

Wide Band, Receive Mode, 120VAC 60Hz

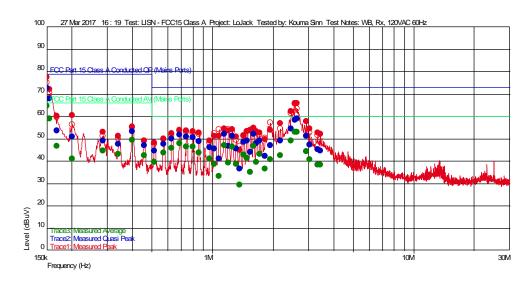
Test Information

Test Details Test:

User Entry LISN - FCC15 Class A LoJack WB, Rx, 120VAC 60Hz 22C 27%, 1007mbar Kouma Sinn 27 Mar 2017 16:19 Project:
Test Notes:
Temperature:
Humidity:
Tested by: Test Started:

Additional Information

Prescan Emission Graph



Measured Peak Value Measured Quasi Peak Value

Measured Average Value

Maximum Value of Mast and Turntable

Swept Peak Data Swept Quasi Peak Data

Swept Average Data

Emissions Test Data

Trace2: Measur	ed Quasi Peak							
Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
1.369 M	36.48	0.020	20.549	73	-36.52	9 k		L1
1.081 M	41.01	0.020	20.544	73	-31.99	9 k		L1
1.828 M	42.35	0.020	20.557	73	-30.65	9 k		N
201.0 k	50.98	0.040	20.591	79	-28.02	9 k		L1
1.54 M	44.14	0.020	20.552	73	-28.86	9 k		N
285.15 k	49.11 47.66	0.031	20.586	79 79	-29.89	9 k 9 k		N N
342.1 k 514.65 k	44.66	0.029 0.023	20.583 20.572	79 73	-31.34 -28.34	9 k		N N
168.7 k	53.69	0.025	20.593	79 79	-25.31	9 k		L1
3.439 M	44.77	0.020	20.585	73	-28.23	9 k		L1
3.331 M	45.10	0.020	20.583	73	-27.9	9 k		L1
1.027 M	45.59	0.020	20.543	73	-27.41	9 k		N.
1.315 M	45.64	0.020	20.548	73	-27.36	9 k		N
973.65 k	46.20	0.020	20.545	73	-26.8	9 k		N
459.4 k	46.92	0.025	20.576	79	-32.08	9 k		L1
1.198 M	46.63	0.020	20.546	73	-26.37	9 k		L1
1.936 M	47.13	0.020	20.559	73	-25.87	9 k		L1
3.043 M	47.43	0.020	20.578	73	-25.57	9 k		N
574.15 k	47.69	0.021	20.569	73	-25.31	9 k		L1
1.657 M	47.81	0.020	20.554	73	-25.19	9 k		N
1.432 M 859.75 k	48.51 48.94	0.020 0.020	20.550	73	-24.49 -24.06	9 k 9 k		N
1.72 M	48.98	0.020	20.551 20.555	73 73	-24.06 -24.02	9 k		L1 N
1.486 M	49.03	0.020	20.551	73	-23.97	9 k		N
2.179 M	49.20	0.020	20.563	73	-23.8	9 k		L1
629.4 k	49.86	0.020	20.565	73	-23.14	9 k		N.
801.95 k	50.71	0.020	20.555	73	-22.29	9 k		Ľ1
743.3 k	50.88	0.020	20.559	73	-22.12	9 k		L1
1.261 M	51.21	0.020	20.548	73	-21.79	9 k		L1
2.926 M	51.26	0.020	20.576	73	-21.74	9 k		L1
399.9 k	53.17	0.027	20.579	79	-25.83	9 k		L1
686.35 k	51.78	0.020	20.562	73	-21.22	9 k		N
1.144 M	52.04	0.020	20.545	73	-20.96	9 k		L1
1.603 M	52.14	0.020	20.553	73	-20.86	9 k		N
2.458 M	54.49	0.020	20.568	73	-18.51	9 k		L1
155.1 k	68.00	0.076	20.594	79	-11.00	9 k		N
2.575 M	58.45	0.020	20.570	73	-14.55	9 k		L1
2.638 M	58.97	0.020	20.571	73	-14.03	9 k		L1
150.0 k	72.57	0.080	20.594	79	-6.43	9 k		N
Trace3: Measur	rod Average							
Trace3: Measur		TE	PA+CI	Limit(dBu)/)	Margin/dRu\/)	DB/W/H+)	Commont	LINE
Frequency(Hz)	Level(dBuV)	TF 0.020	PA+CL 20 549	Limit(dBuV)	Margin(dBuV)	RBW(Hz) 9 k	Comment	LINE
Frequency(Hz) 1.369 M	Level(dBuV) 29.39	0.020	20.549	60	-30.61	9 k	Comment	L1
Frequency(Hz)	Level(dBuV)	0.020 0.020	20.549 20.544	60 60	-30.61 -26.69	9 k 9 k	Comment	
Frequency(Hz) 1.369 M 1.081 M	Level(dBuV) 29.39 33.31	0.020	20.549	60	-30.61	9 k	Comment	L1 L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k	Level(dBuV) 29.39 33.31 41.10	0.020 0.020 0.040	20.549 20.544 20.591	60 60 66	-30.61 -26.69 -24.9	9 k 9 k 9 k	Comment	L1 L1 L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70	0.020 0.020 0.040 0.020 0.020 0.065	20.549 20.544 20.591 20.552 20.557 20.593	60 60 66 60 60 66	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3	9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 L1 N N L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24	0.020 0.020 0.040 0.020 0.020 0.065 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583	60 60 66 60 60 66 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76	9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 L1 N N L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585	60 60 66 60 60 66 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61	9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543	60 60 66 60 60 66 60 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548	60 60 66 60 60 60 60 60 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546	60 60 60 60 60 60 60 60 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546 20.554	60 60 66 60 60 60 60 60 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546 20.554 20.554	60 60 60 60 60 60 60 60 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546 20.554 20.554 20.558	60 60 60 60 60 60 60 60 60 60 60 60 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 43.19 40.64	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546 20.554 20.554 20.572 20.586 20.583 20.559	60 60 66 60 60 60 60 60 60 60 60 60	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70	0.020 0.020 0.040 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.023 0.031 0.029 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.548 20.548 20.554 20.572 20.586 20.583 20.559 20.578	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 L1 N N L1 L1 N N L1 N N N N N N N N N N N N N N N N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 242.1 k 1.936 M 3.043 M 973.65 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98	0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.023 0.031 0.029 0.029 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.554 20.554 20.555 20.583 20.583 20.583 20.578	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N N L1 N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 9.3043 M 9.3043 M 9.3056 k 1.486 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 43.19 40.64 40.70 40.98 41.44	0.020 0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.548 20.554 20.554 20.572 20.586 20.583 20.559 20.578 20.559 20.578	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -19.36 -19.3 -25.02 -18.56	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N N N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.44	0.020 0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.020 0.023 0.031 0.029 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.583 20.548 20.548 20.546 20.554 20.572 20.586 20.583 20.559 20.578 20.578	60 60 66 60 60 60 60 60 60 60 60 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N N N N N N N N N L1 N N N L1 N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.44	0.020 0.020 0.040 0.020 0.020 0.065 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.554 20.554 20.572 20.586 20.583 20.559 20.578 20.578 20.545 20.576 20.563	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N N N N N N N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.44 42.49 42.70	0.020 0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.021 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546 20.554 20.572 20.588 20.583 20.559 20.578 20.578 20.556 20.556 20.556 20.556 20.556 20.556 20.556 20.556	60 60 66 60 60 60 60 60 60 60 60 60 60 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N N N N N N N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.44 42.49 42.70 43.16	0.020 0.020 0.020 0.040 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.023 0.031 0.029 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.548 20.548 20.548 20.572 20.586 20.583 20.5554 20.572 20.586 20.555 20.578 20.563 20.5551 20.576 20.563 20.5550 20.5555	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N L1 N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 242.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 40.70 40.98 41.44 42.44 42.49 42.70 43.16 43.61	0.020 0.020 0.020 0.040 0.020 0.020 0.065 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.554 20.554 20.572 20.586 20.583 20.559 20.578 20.578 20.5651 20.576 20.563 20.550 20.555 20.569	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 N N L1 N N N N N N N N L1 N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.44 42.49 42.70 43.16 43.79	0.020 0.020 0.020 0.040 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.021 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.588 20.543 20.548 20.554 20.554 20.572 20.586 20.583 20.559 20.578 20.559 20.578 20.556 20.5551 20.556 20.555 20.556 20.555	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N N N N N N N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.49 42.70 43.16 43.61 43.79 44.42	0.020 0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.020 0.023 0.031 0.029 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.548 20.548 20.548 20.554 20.572 20.586 20.583 20.559 20.578 20.546 20.5551 20.576 20.555 20.569 20.5551 20.576	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N L1 N N N L1 N N N L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.198 M 1.657 M 514.65 k 242.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 40.70 40.98 41.44 42.44 42.49 42.70 43.16 43.61 43.79 44.42 45.79	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.554 20.554 20.572 20.588 20.558 20.555 20.578 20.578 20.578 20.5563 20.550 20.555 20.569 20.551 20.576 20.569 20.551 20.576	60 60 66 60 60 60 60 60 60 60 66 66 66 6	30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 N N N L1 N N N N N L1 N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.49 42.70 43.16 43.61 43.79 44.42 45.79 46.34	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.588 20.543 20.548 20.546 20.554 20.572 20.588 20.558 20.558 20.555 20.557 20.588 20.555 20.555 20.563 20.555 20.569 20.5551 20.576 20.565 20.5555	60 60 66 60 60 60 60 60 60 60 66 66 66 6	30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N N L1 L1 N N L1 L1 N N L1 L1 N L1 N L1 N L1 N L1 N L1 N L1 L1 N L1 N L1 L1 N L1 L1 N L1 L1 L1 N L1 L1 L1 N L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k 1.95 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.49 42.70 43.16 43.61 43.79 44.42 45.79 46.34	0.020 0.020 0.020 0.040 0.020 0.020 0.065 0.020 0.020 0.020 0.020 0.020 0.023 0.031 0.029 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.588 20.548 20.548 20.554 20.572 20.586 20.583 20.559 20.578 20.555 20.563 20.555 20.565 20.555 20.565 20.555 20.566 20.555 20.568	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -19.66 -13.63	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N N L1 N N N L1 L1 N N N L1 L1 L1 N N L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.49 42.70 43.16 43.61 43.79 44.42 45.79 46.34	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.588 20.543 20.548 20.546 20.554 20.572 20.588 20.558 20.558 20.555 20.557 20.588 20.555 20.555 20.563 20.555 20.569 20.5551 20.576 20.565 20.5555	60 60 66 60 60 60 60 60 60 60 66 66 66 6	30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21 -19.66 -13.63 -19.62	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N N L1 L1 N N L1 L1 N N L1 L1 N L1 N L1 N L1 N L1 N L1 N L1 L1 N L1 N L1 L1 N L1 L1 N L1 L1 L1 N L1 L1 L1 N L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k 1.261 M 743.3 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 40.70 40.98 41.44 42.44 42.49 42.70 43.16 43.61 43.79 44.42 45.79 46.34 46.37 46.38	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546 20.554 20.572 20.588 20.554 20.576 20.563 20.576 20.563 20.555 20.569 20.555 20.566 20.555 20.5665 20.555 20.565 20.5555 20.565 20.5555 20.565	60 60 66 60 60 60 60 60 60 60 66 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -19.66 -13.63	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 N N L1 N N N N L1 N N N L1 N N L1
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k 1.261 M 743.3 k 1.603 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.49 42.70 43.16 43.61 43.61 43.79 44.42 45.79 46.34 46.37 46.38 46.69	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.554 20.572 20.588 20.554 20.572 20.588 20.555 20.569 20.575 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555	60 60 66 66 60 60 66 66 60 60 66 66 60 66 66	30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21 -19.66 -13.63 -19.66 -13.63 -19.62 -13.31	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N N L1 N N N L1 N N N L1 L1 N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 609.95 k 1.261 M 74.33 k 1.603 M 1.1444 M 399.9 k 686.35 k	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.49 42.70 43.16 43.61 43.79 44.42 45.79 46.38 46.37 46.38 46.69 47.01 49.32 47.77	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546 20.554 20.572 20.588 20.554 20.576 20.563 20.576 20.563 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555 20.565 20.555	60 60 66 66 60 60 60 66 66 60 60 60 66 66	30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21 -19.66 -13.63 -19.66 -13.63 -19.62 -13.31 -12.99 -16.68 -18.23	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N N L1 N N N L1 L1 L1 L1 N N N L1 N N N L1 L1 N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k 1.95 k 1.95 k 1.633 M 1.144 M 399.9 k 686.35 k 2.458 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.44 42.49 42.70 43.16 43.61 43.79 44.42 45.79 46.34 46.37 46.38 46.69 47.01 49.32 47.77	0.020 0.020 0.020 0.040 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.023 0.031 0.029 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.583 20.588 20.548 20.546 20.554 20.572 20.586 20.583 20.559 20.578 20.559 20.576 20.563 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.565 20.555 20.569 20.555 20.568	60 60 60 66 66 60 60 66 66 60 60 66 66 6	-30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21 -19.66 -13.63 -19.62 -13.63 -19.62 -13.63 -19.62 -13.63 -19.62 -13.63 -19.66 -13.63 -19.62 -13.63 -19.66 -13.63 -19.62 -13.63 -19.66 -13.63 -19.66 -13.63 -19.69	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N L1 N N L1 N N L1 L1 N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k 1.261 M 743.3 k 1.603 M 1.144 M 399.9 k 686.35 k 2.458 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 40.70 40.98 41.44 42.44 42.49 42.70 43.16 43.79 44.42 45.79 46.34 46.37 46.38 46.69 47.01 49.32 47.77 49.04 58.97	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.554 20.554 20.572 20.586 20.583 20.558 20.578 20.566 20.555 20.566 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.568 20.559 20.559 20.559	60 60 66 66 60 66 66 66 66 66 66 66 66 6	30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21 -19.66 -13.63 -19.62 -13.31 -12.99 -16.68 -18.23 -10.96 -7.03	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 N N N N N N N N N N N N
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k 1.261 M 743.3 k 1.603 M 1.144 M 399.9 k 686.35 k 2.458 M 155.1 k 2.575 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 43.19 40.64 40.70 40.98 41.44 42.49 42.70 43.16 43.61 43.79 44.42 45.79 46.38 46.37 46.38 46.69 47.01 49.32 47.77 49.04 58.97 52.99	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.546 20.554 20.572 20.588 20.554 20.576 20.563 20.555 20.563 20.555 20.566 20.555 20.566 20.555 20.569 20.555 20.565 20.555 20.565 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.568 20.579 20.562 20.568 20.579	60 60 66 66 60 60 60 66 66 60 60 66 66 6	30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21 -19.66 -13.63 -19.66 -19.66 -19.67 -1	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 L1 N N L1 N N N L1 N N N L1 L1 L1 L1 N N N L1 L1 N N L1 L1 N L1 L1 N L
Frequency(Hz) 1.369 M 1.081 M 201.0 k 1.54 M 1.828 M 168.7 k 3.331 M 3.439 M 1.027 M 1.315 M 1.198 M 1.657 M 514.65 k 285.15 k 342.1 k 1.936 M 3.043 M 973.65 k 1.486 M 459.4 k 2.179 M 1.432 M 1.72 M 574.15 k 859.75 k 2.926 M 629.4 k 801.95 k 1.261 M 743.3 k 1.603 M 1.144 M 399.9 k 686.35 k 2.458 M	Level(dBuV) 29.39 33.31 41.10 35.22 36.54 46.70 38.24 38.39 38.59 38.66 39.28 39.60 44.64 40.70 40.98 41.44 42.44 42.49 42.70 43.16 43.79 44.42 45.79 46.34 46.37 46.38 46.69 47.01 49.32 47.77 49.04 58.97	0.020 0.020 0.020 0.040 0.020	20.549 20.544 20.591 20.552 20.557 20.593 20.583 20.585 20.543 20.548 20.554 20.554 20.572 20.586 20.583 20.558 20.578 20.566 20.555 20.566 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.569 20.555 20.568 20.559 20.559 20.559	60 60 66 66 60 66 66 66 66 66 66 66 66 6	30.61 -26.69 -24.9 -24.78 -23.46 -19.3 -21.76 -21.61 -21.41 -21.34 -20.72 -20.4 -26.4 -21.36 -22.81 -19.36 -19.3 -25.02 -18.56 -23.56 -17.51 -17.3 -16.84 -22.39 -22.21 -15.58 -20.21 -19.66 -13.63 -19.62 -13.31 -12.99 -16.68 -18.23 -10.96 -7.03	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 L1 N N L1 L1 N N N N N N N N N N N N

Wide Band, Transmit, 120VAC 60Hz

Test Information

Test Details
User Entry
Test:
LISN - FCC15 Class A
Project:
LOJack

 Test:
 LISN - FCC15 Class A

 Project:
 LoJack

 Test Notes:
 WB, Tx, 120VAC 60Hz

 Temperature:
 22C

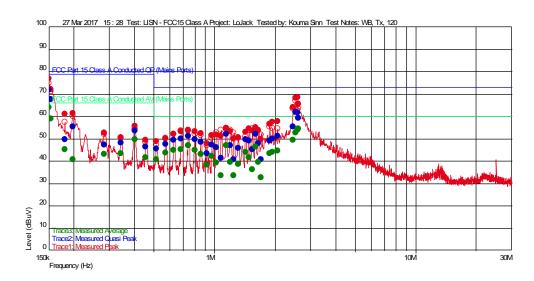
 Humidity:
 27%, 1007mbar

 Tested by:
 Kouma Sinn

 Test Started:
 27 Mar 2017 15 : 28

Additional Information

Prescan Emission Graph



Measured Peak ValueMeasured Quasi Peak Value

Measured Average Value

Maximum Value of Mast and Turntable

__ Swept Peak Data

_ Swept Quasi Peak Data

__ Swept Average Data

Emissions Test Data

Trace2: Measure	ed Quasi Peak							
Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
1.252 M	40.66	0.020	20.547	73	-32.34	9 k		N
1.711 M	40.70	0.020	20.555	73	-32.3	9 k		L1
180.6 k	49.66	0.056	20.592	79	-29.34	9 k		L1
1.081 M	41.34	0.020	20.544	73	-31.66	9 k		L1
284.3 k	47.25	0.032	20.586	79	-31.75	9 k		L1
916.7 k	43.33	0.020	20.548	79	-35.67	9 k		L1
342.95 k	48.17	0.029	20.583	79	-30.83	9 k		L1
1.54 M	45.23	0.020	20.552	73	-27.77	9 k		L1
456.85 k	46.31	0.025	20.576	79	-32.69	9 k		N
515.5 k	45.63	0.023	20.572	79	-33.37	9 k		N
1.315 M	45.80	0.020	20.548	73	-27.2	9 k		N
1.027 M	46.04	0.020	20.543	73	-26.96	9 k		L1
1.198 M	47.03	0.020	20.546	73	-25.97	9 k		L1
973.65 k	47.44	0.020	20.545	79	-31.56	9 k		N
197.6 k	55.29	0.042	20.591	79	-23.71	9 k		N
572.45 k	47.68	0.021	20.569	79	-31.32	9 k		L1
1.657 M	47.78	0.020	20.554	73	-25.22	9 k		N
858.9 k	48.54	0.020	20.551	79	-30.46	9 k		L1
1.882 M	49.19	0.020	20.558	73	-23.81	9 k		L1
1.486 M	49.22	0.020	20.551	73	-23.78	9 k		L1
628.55 k	49.35	0.020	20.566	79	-29.65	9 k		L1
1.432 M	49.62	0.020	20.550	73	-23.38	9 k		N
800.25 k	49.77	0.020	20.555	79	-29.23	9 k		N
1.936 M	50.14	0.020	20.559	73	-22.86	9 k		L1
684.65 k 2.062 M	50.14	0.020	20.562	79 73	-28.86	9 k 9 k		L1
743.3 k	51.10 51.29	0.020 0.020	20.561 20.559	73 79	-21.9 -27.71	9 k		L1 N
402.45 k	53.60	0.020	20.579	79 79	-25.4	9 k		N
1.603 M	52.07	0.027	20.553	73	-20.93	9 k		L1
1.144 M	52.12	0.020	20.545	73	-20.88	9 k		L1
2.458 M	55.26	0.020	20.568	73	-17.74	9 k		L1
154.25 k	67.57	0.077	20.594	79 79	-11.43	9 k		N
2.611 M	59.37	0.020	20.571	73	-13.63	9 k		Ľ1
2.593 M	61.58	0.020	20.570	73	-11.42	9 k		L1
150.0 k	71.78	0.080	20.594	79	-7.22	9 k		N.
2.539 M	62.06	0.020	20.570	73	-10.94	9 k		L1
Trace3: Measure	ed Average							
Trace3: Measure	· ·	TF	PA+CL	Limit(dBuV)	Marqin(dBuV)	RBW(Hz)	Comment	LINE
Trace3: Measure Frequency(Hz) 1.711 M	ed Average Level(dBuV) 32.74	TF 0.020	PA+CL 20.555	Limit(dBuV) 60	Margin(dBuV) -27.26	RBW(Hz) 9 k	Comment	LINE L1
Frequency(Hz) 1.711 M 197.6 k	Level(dBuV) 32.74 40.84	0.020 0.042	20.555 20.591	60 66	-27.26 -25.16	9 k 9 k	Comment	L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M	Level(dBuV) 32.74 40.84 33.49	0.020 0.042 0.020	20.555 20.591 20.544	60 66 60	-27.26 -25.16 -26.51	9 k 9 k 9 k	Comment	L1 N L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M	Level(dBuV) 32.74 40.84 33.49 33.55	0.020 0.042 0.020 0.020	20.555 20.591 20.544 20.547	60 66 60 60	-27.26 -25.16 -26.51 -26.45	9 k 9 k 9 k 9 k	Comment	L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28	0.020 0.042 0.020 0.020 0.020	20.555 20.591 20.544 20.547 20.552	60 66 60 60	-27.26 -25.16 -26.51 -26.45 -23.72	9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12	0.020 0.042 0.020 0.020 0.020 0.056	20.555 20.591 20.544 20.547 20.552 20.592	60 66 60 60 60 66	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88	9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32	0.020 0.042 0.020 0.020 0.020 0.056 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548	60 66 60 60 60 66 66	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68	9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.586	60 66 60 60 60 66 66 66	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89	9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.586 20.548	60 66 60 60 60 66 66 66 66	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.586 20.548 20.543	60 66 60 60 60 66 66 66 66	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.022 0.020 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.586 20.548 20.543 20.546	60 66 60 60 60 66 66 66 66 60 60	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.586 20.548 20.543 20.554	60 60 60 60 60 66 66 66 66 60 60	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.42	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.588 20.548 20.548 20.543 20.543 20.554 20.554	60 66 60 60 60 66 66 66 66 60 60	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k	Level(dBuV) 32.74 40.84 43.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.543 20.543 20.554 20.554 20.554 20.558	60 66 60 60 60 66 66 66 60 60 60 60 60 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 N L1 N L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.588 20.548 20.548 20.543 20.543 20.554 20.554	60 66 60 60 60 66 66 66 60 60 60 60	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 N L1 L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.029 0.025 0.023	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.543 20.546 20.554 20.554 20.555 20.576	60 60 60 60 60 66 66 66 60 60 60 60 66 66	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.42 -20.42 -22.47 -24.41 -25.14	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.025 0.023	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.543 20.546 20.554 20.554 20.572 20.575	60 66 60 60 66 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.029 0.025 0.023 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.543 20.543 20.554 20.554 20.553 20.576 20.572 20.551	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 L1 L1 L1 N L1 N L1 N N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.025 0.023 0.020 0.020 0.020 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.554 20.555 20.572 20.551 20.5551	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 N L1 N N L1 N N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.025 0.023 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.545 20.554 20.556 20.572 20.572 20.551 20.5551 20.558	60 66 60 60 60 66 66 66 60 60 60 60 66 66	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N N L1 N N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98	0.020 0.042 0.020 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.020 0.025 0.023 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.554 20.572 20.572 20.551 20.555 20.569 20.558 20.569 20.559 20.555	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N N L1 N N L1 N N L1 N N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.029 0.025 0.023 0.020	20.555 20.591 20.544 20.547 20.552 20.5592 20.548 20.548 20.543 20.543 20.554 20.554 20.576 20.572 20.551 20.5551 20.555 20.558 20.569 20.559 20.550 20.561	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N N L1 N L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.020 0.025 0.023 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.554 20.554 20.555 20.572 20.551 20.555 20.555 20.555 20.556 20.559 20.559 20.550 20.556	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.08 -16.02 -15.33 -21.05	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06	0.020 0.042 0.020 0.020 0.020 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.021 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.554 20.572 20.551 20.555 20.555 20.566 20.558 20.566 20.555 20.565 20.555 20.566	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k 628.55 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.029 0.025 0.023 0.020	20.555 20.591 20.544 20.547 20.552 20.552 20.548 20.548 20.543 20.543 20.554 20.555 20.576 20.576 20.551 20.555 20.558 20.559 20.559 20.550 20.561 20.555 20.566 20.566 20.566	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 L1 L1 L1 L1 L1 L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k 684.65 k 1.603 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.554 20.555 20.551 20.551 20.555 20.569 20.559 20.555 20.566 20.555 20.566 20.553	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 684.65 k 1.603 M 743.3 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55 46.93	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.032 0.020 0.020 0.020 0.020 0.020 0.020 0.021 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.555 20.555 20.555 20.555 20.555 20.556 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45 -19.07	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k 684.65 k 1.603 M 743.3 k 1.144 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55 46.93 47.02	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.020 0.020 0.020 0.020 0.020 0.029 0.025 0.023 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.588 20.548 20.543 20.544 20.553 20.576 20.576 20.571 20.551 20.558 20.569 20.559 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566	60 66 60 60 60 66 66 66 60 60 66 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45 -19.07 -12.98	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k 684.65 k 1.603 M 743.3 k 1.144 M 402.45 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55 46.93 47.02 49.67	0.020 0.042 0.020 0.020 0.020 0.056 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.554 20.555 20.551 20.551 20.555 20.569 20.559 20.550 20.566 20.555 20.566 20.553 20.559 20.5559 20.5559	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45 -19.07 -12.98 -16.33	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k 684.65 k 1.603 M 743.3 k 1.144 M 402.45 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55 46.93 47.02 49.67 59.06	0.020 0.042 0.020 0.020 0.020 0.020 0.032 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.555 20.5551 20.5551 20.5551 20.5551 20.5550 20.566 20.5550 20.566 20.5550 20.5662 20.5553 20.5559 20.5559 20.5553 20.5599 20.5599 20.5599	60 66 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45 -19.07 -12.98 -16.33 -6.94	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 L1 L1 L1 N L1 L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k 628.55 k 628.55 k 61.44 M 402.45 k 1.54.25 k 1.44 M 402.45 k	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55 46.93 47.02 49.67 59.06 49.45	0.020 0.042 0.020 0.020 0.020 0.056 0.020 0.020 0.020 0.020 0.020 0.020 0.029 0.025 0.023 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.543 20.544 20.553 20.576 20.576 20.575 20.551 20.558 20.569 20.550 20.561 20.555 20.566 20.552 20.555 20.566 20.559 20.559 20.559 20.559 20.559 20.559 20.559	60 66 60 60 60 66 66 66 60 60 66 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45 -19.07 -12.98 -16.33 -6.94 -10.55	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k 684.65 k 1.603 M 743.3 k 1.144 M 402.45 k 154.25 k 2.458 M 2.539 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55 46.93 47.02 49.67 59.06 49.45 52.69	0.020 0.042 0.020 0.020 0.020 0.020 0.032 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.554 20.555 20.551 20.551 20.555 20.569 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.579 20.579 20.594 20.579	60 60 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45 -19.07 -12.98 -16.33 -6.94 -10.55 -7.31	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 684.65 k 1.603 M 743.3 k 1.144 M 402.45 k 1.458 M 2.593 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55 46.93 47.02 49.67 59.06 49.45 52.69 53.91	0.020 0.042 0.020 0.020 0.020 0.020 0.032 0.020	20.555 20.591 20.544 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.555 20.555 20.555 20.555 20.555 20.555 20.555 20.566 20.555 20.566 20.555 20.566 20.562 20.555 20.568 20.559 20.559 20.559 20.559 20.559 20.559 20.555	60 60 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.45 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45 -19.07 -12.98 -16.33 -6.94 -10.55 -7.31 -6.09	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 L1 L1 L1 L1 N L1 N L1 N L1 N L1
Frequency(Hz) 1.711 M 197.6 k 1.081 M 1.252 M 1.54 M 180.6 k 916.7 k 284.3 k 1.315 M 1.027 M 1.198 M 1.657 M 342.95 k 456.85 k 515.5 k 1.486 M 973.65 k 858.9 k 1.882 M 572.45 k 1.936 M 1.432 M 2.062 M 800.25 k 628.55 k 684.65 k 1.603 M 743.3 k 1.144 M 402.45 k 154.25 k 2.458 M 2.539 M	Level(dBuV) 32.74 40.84 33.49 33.55 36.28 45.12 38.32 43.11 38.78 39.15 39.55 39.58 43.53 41.59 40.86 41.75 42.38 43.14 43.46 43.71 43.92 43.98 44.67 44.95 45.06 45.27 46.55 46.93 47.02 49.67 59.06 49.45 52.69	0.020 0.042 0.020 0.020 0.020 0.020 0.032 0.020	20.555 20.591 20.544 20.547 20.552 20.592 20.548 20.548 20.548 20.548 20.554 20.554 20.555 20.551 20.551 20.555 20.569 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.555 20.566 20.579 20.579 20.594 20.579	60 60 60 60 60 66 66 66 60 60 60 66 66 6	-27.26 -25.16 -26.51 -26.45 -23.72 -20.88 -27.68 -22.89 -21.22 -20.85 -20.42 -22.47 -24.41 -25.14 -18.25 -23.62 -22.86 -16.54 -22.29 -16.08 -16.02 -15.33 -21.05 -20.94 -20.73 -13.45 -19.07 -12.98 -16.33 -6.94 -10.55 -7.31	9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k 9 k	Comment	L1 N L1 N L1 L1 L1 L1 N L1 N L1 N L1 N

Intertek

Report Number: 102940158BOX-001b Issued: 04/25/2017

Test Personnel: Kouma Sinn Absolute
Supervising/Reviewing
Engineer:
(Where Applicable)
Product Standard:
Input Voltage:
Pretest Verification w/
Ambient Signals or
BB Source:

BB Source

Kouma Sinn Absolute

N/A

FCC Part 90
Limit Applied:
FCC Part 15 Subpart B Class A

Limit Applied:
FCC Part 15 Subpart B Class A

Ambient Temperature:
22, 22 °C

Relative Humidity:
27, 22 %

Atmospheric Pressure:
1007,1008 mbars

Deviations, Additions, or Exclusions: None

Intertek

Report Number: 102940158BOX-001b Issued: 04/25/2017

17 Revision History

Revision	Date	Report Number	Prepared	Reviewed	Notes
Level			Ву	Ву	
0	04/10/2017	102940158BOX-001	KPS KB	MFM ##	Original Issue
1	04/25/2017	102940158BOX-001b	KPS LPS		Corrected the product from Mini Base station to Remote Tower Unit on page 4, 19, and 66