

FCC Test Report

Product Name	LeanOrder detectionShelf
Model No.	01 , 02
FCC ID.	2ANAA-LODSHELF01

Applicant	Intellion AG
Address	Schuppisstrasse 10, 9016 St. Gallen, Switzerland

Date of Receipt	Aug 09, 2017
Issued Date	Apr 20, 2018
Report No.	1780164R-RFUSP23V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

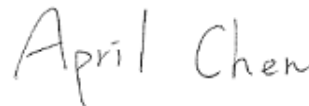
Issued Date: Apr 20, 2018

Report No.: 1780164R-RFUSP23V00



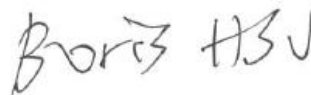
Product Name	LeanOrder detectionShelf
Applicant	Intellion AG
Address	Schuppisstrasse 10, 9016 St. Gallen, Switzerland
Manufacturer	Identec Solutions AG
Model No.	01 , 02
FCC ID.	2ANAA-LODSHELF01
EUT Rated Voltage	DC 9V
EUT Test Voltage	DC 9V
Trade Name	Intellion
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2017 ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By :



(Adm. Specialist / April Chen)

Tested By :



(Engineer / Boris Hsu)

Approved By :



(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	LeanOrder detectionShelf
Trade Name	Intellion
Model No.	01 , 02
FCC ID.	2ANAA-LODSHELF01
Frequency Range	912.80-920.15MHz
Channel Number	50
Type of Modulation	FHSS
Antenna Type	Integrated Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	IB-Lenhardt AG	N/A	Integrated	2.85 dBi for 920MHz

Note:

1. The antenna of EUT conforms to FCC 15.203.
2. Only the higher gain antenna was tested and recorded in this report.

Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	912.80 MHz	Channel 14:	914.75 MHz	Channel 27:	916.70 MHz	Channel 40:	918.65 MHz
Channel 02:	912.95 MHz	Channel 15:	914.90 MHz	Channel 28:	916.85 MHz	Channel 41:	918.80 MHz
Channel 03:	913.10 MHz	Channel 16:	915.05 MHz	Channel 29:	917.00 MHz	Channel 42:	918.95 MHz
Channel 04:	913.25 MHz	Channel 17:	915.20 MHz	Channel 30:	917.15 MHz	Channel 43:	919.10 MHz
Channel 05:	913.40 MHz	Channel 18:	915.35 MHz	Channel 31:	917.30 MHz	Channel 44:	919.25 MHz
Channel 06:	913.55 MHz	Channel 19:	915.50 MHz	Channel 32:	917.45 MHz	Channel 45:	919.40 MHz
Channel 07:	913.70 MHz	Channel 20:	915.65 MHz	Channel 33:	917.60 MHz	Channel 46:	919.55 MHz
Channel 08:	913.85 MHz	Channel 21:	915.80 MHz	Channel 34:	917.75 MHz	Channel 47:	919.70 MHz
Channel 09:	914.00 MHz	Channel 22:	915.95 MHz	Channel 35:	917.90 MHz	Channel 48:	919.85 MHz
Channel 10:	914.15 MHz	Channel 23:	916.10 MHz	Channel 36:	918.05 MHz	Channel 49:	920.00 MHz
Channel 11:	914.30 MHz	Channel 24:	916.25 MHz	Channel 37:	918.20MHz	Channel 50:	920.15 MHz
Channel 12:	914.45 MHz	Channel 25:	916.40 MHz	Channel 38:	918.35 MHz		
Channel 13:	914.60 MHz	Channel 26:	916.55 MHz	Channel 39:	918.50 MHz		

Note:

1. The EUT is a LeanOrder detectionShelf with a built-in 912.80-920.15MHz FHSS transceiver.
2. The EUT is including two type for different dimension and antenna number.
3. These tests were conducted on a sample for the purpose of demonstrating compliance of 902-928MHz transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
4. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmit(130x80)-Port 1 Mode 1: Transmit(130x80)-Port 2 Mode 1: Transmit(130x80)-Port 4 Mode 1: Transmit(130x80)-Port 5 Mode 1: Transmit(130x80)-Port 6 Mode 2: Transmit(100x60)-Port 1 Mode 2: Transmit(100x60)-Port 2 Mode 2: Transmit(100x60)-Port 3 Mode 2: Transmit(100x60)-Port 4
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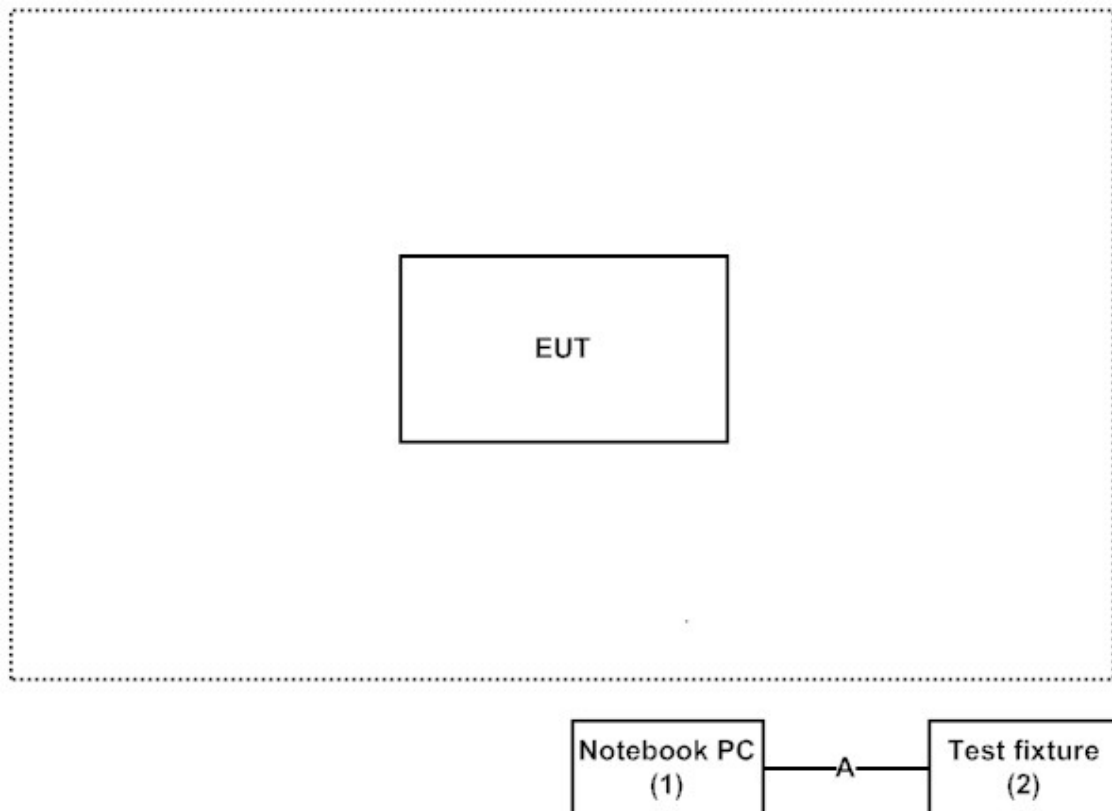
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1. Notebook PC	DELL	Latitude E5440	B6TYTZ1	Non-Shielded, 0.8m
2. Test fixture	N/A	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A. LAN Cable	Non-shielded, 4.7m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1. Setup the EUT as shown in Section 1.4.
2. Execute software “ Gen 3 Tag Certification v1.0.0.23480” on the notebook PC, Wireless control the EUT.
3. Configure the test mode, the test channel, and the data rate.
4. Press “OK” to start the continuous Transmit.
5. Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	30-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/chinese/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: [http:// www.dekra.com.tw](http://www.dekra.com.tw)

Site Description: Accredited by TAF
Accredited Number: 3023

Site Name: DEKRA Testing and Certification Co., Ltd
Site Address: No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451,
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E-Mail : info.tw@dekra.com

FCC Accreditation Number: TW3023

1.7. List of Test Equipment

For Conducted measurements /CB3/SR8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
	Temperature Chamber	WIT GROUP	TH-1S-B	EQ-201-00146	2018/2/12	2019/2/11
X	Spectrum Analyzer	Agilent	N9010A	MY48030495	2017/10/13	2018/10/12
X	Power Meter	Anritsu	ML2495A	6K00003357	2017/8/7	2018/8/6
X	Pulse power sensor	Anritsu	MA2411B	0846193	2017/8/7	2018/8/6
X	EMI Test Receiver	R&S	ESCS 30	100369	2017/11/7	2018/11/6
X	LISN	R&S	ESH3-Z5	836679/017	2018/2/9	2019/2/8
X	LISN	R&S	ENV216	100097	2018/2/9	2019/2/8
X	Coaxial Cable	DEKRA	RG 400	LC018-RG	2017/6/22	2018/6/21

For Radiated measurements /Site3/CB8

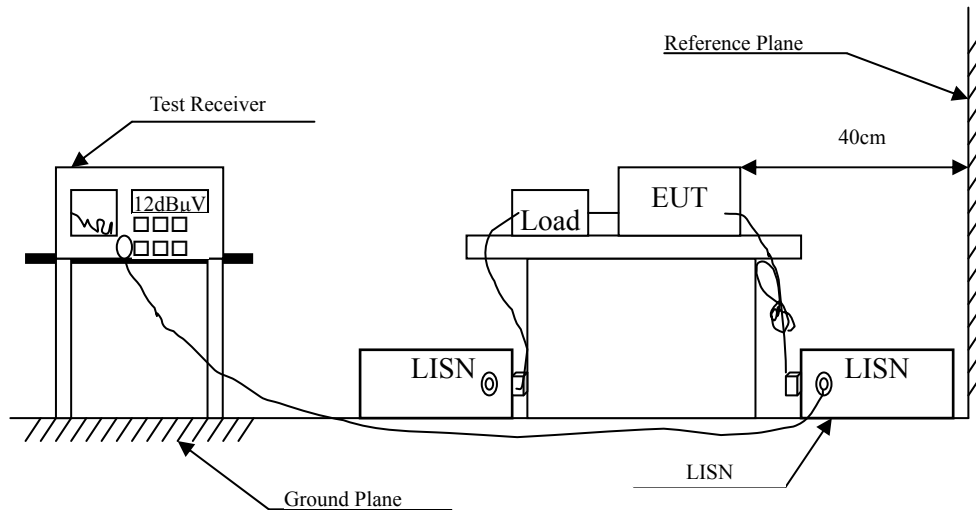
	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
X	Spectrum Analyzer	R&S	FSP40	100170	2018/3/12	2019/3/11
X	Loop Antenna	Teseq	HLA6121	37133	2017/10/13	2018/10/12
X	Bilog Antenna	Schaffner Chase	CBL6112B	2707	2017/06/25	2018/06/24
X	Coaxial Cable	DEKRA	RG 214	LC003-RG	2017/06/15	2018/06/14
X	Pre-Amplifier	Jet-Power	JPA-10M1G33	170101000330010	2017/07/19	2018/07/18
X	Horn Antenna	ETS-Lindgren	3117	00135205	2017/04/28	2018/04/27
X	Pre-Amplifier	EMCI	EMC012630SE	980210	2017/02/24	2018/02/23
X	Coaxial Cable	QuieTek	SF-106	LC035/37/41-SF	2017/6/21	2018/6/20
X	Horn Antenna	ETS-Lindgren	3117	00135205	2017/04/28	2018/04/27
X	Pre-Amplifier	EMCI	EMC012630SE	980210	2017/02/24	2018/02/23
	Amplifier + Cable	EMCI	EMC184045SE	980370	2018/03/21	2019/03/20
	Horn Antenna	Com-Power	AH-840	101043	2018/01/09	2019/01/08
X	Filter	MicroTRON	BRM50701	019	2017/11/21	2018/11/20
X	Filter	Microwave Circuits	N0257881	36681	2018/1/22	2019/1/21

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version :QuieTek EMI 2.0 V2.1.113.

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dB μ V) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

The EUT and Peripherals are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 3 MHz using a receiver bandwidth of 9kHz.

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

2.4. Uncertainty

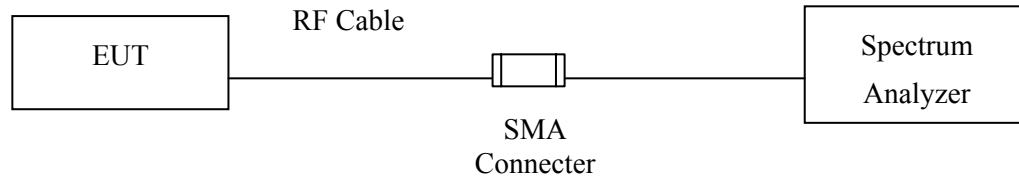
± 2.26 dB

2.5. Test Result of Conducted Emission

Owing to the DC operation of EUT, this test item is not performed.

3. Occupied Bandwidth

3.1. Test Setup



3.2. Limits

According to FCC Section 15.247(a)(1)(i). The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz

3.3. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

3.4. Uncertainty

$\pm 283\text{Hz}$

3.5. Test Result of Occupied Bandwidth

Product : LeanOrder detectionShelf
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit(130x80)-Port 1

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	912.8	313	<500	PASS
25	916.55	312	<500	PASS
49	920.15	311	<500	PASS

Figure Channel 01:

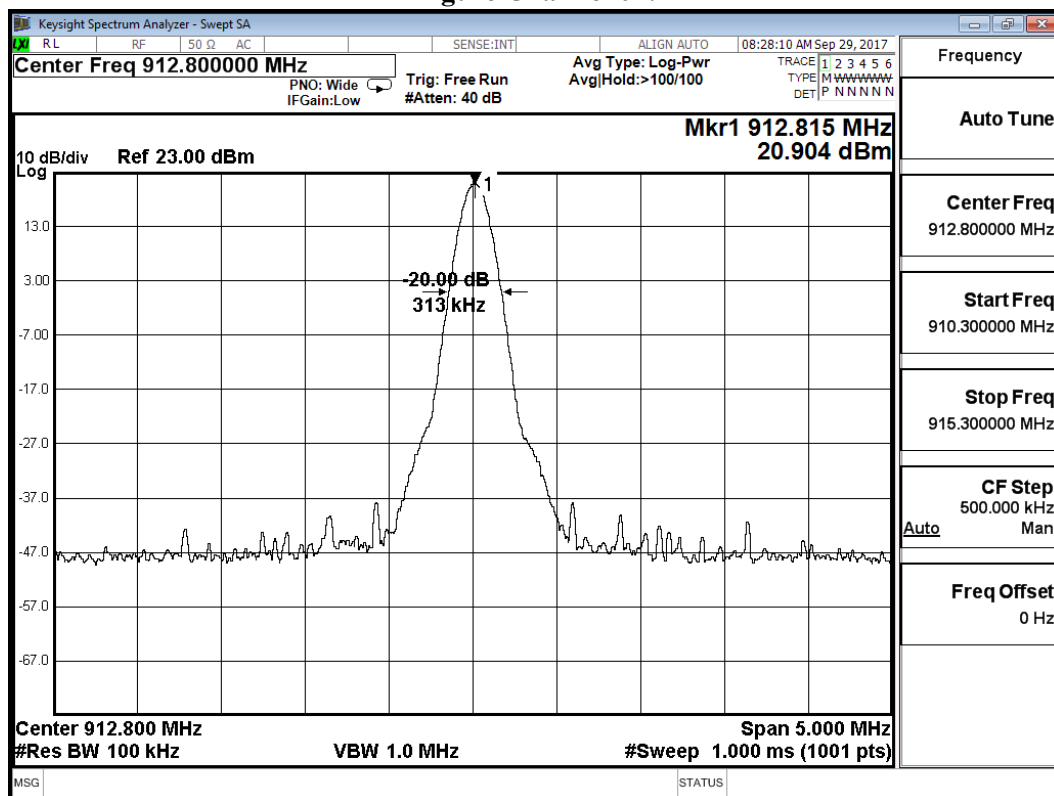


Figure Channel 25:

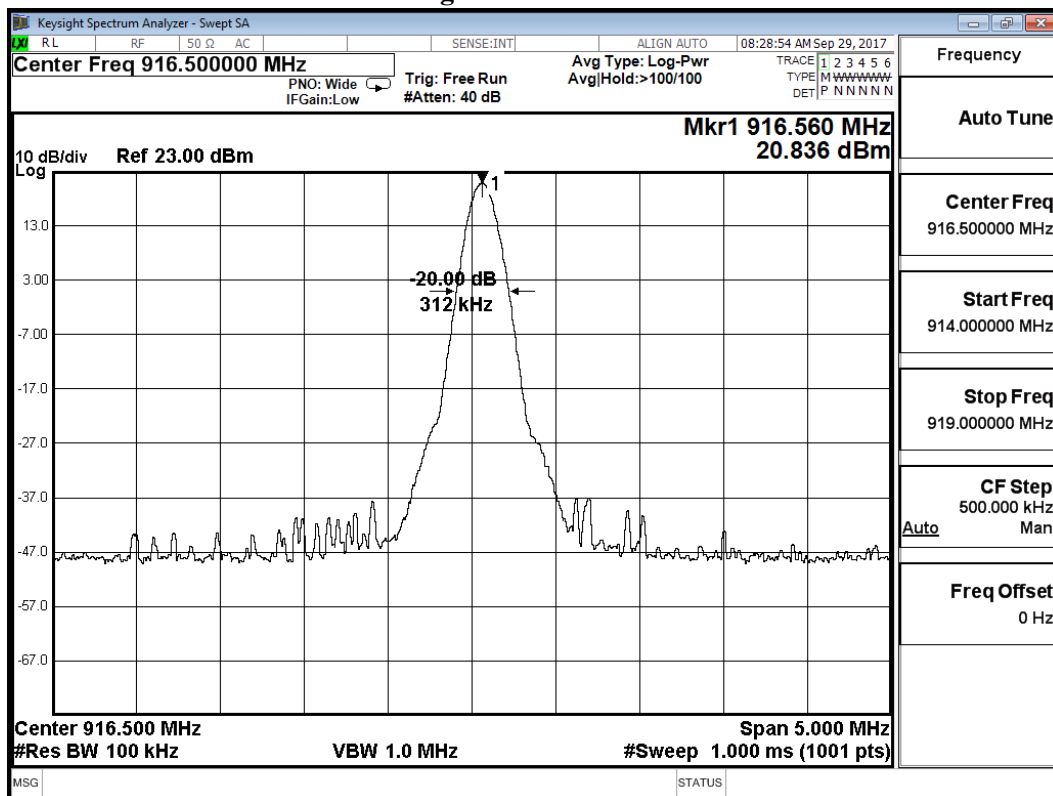
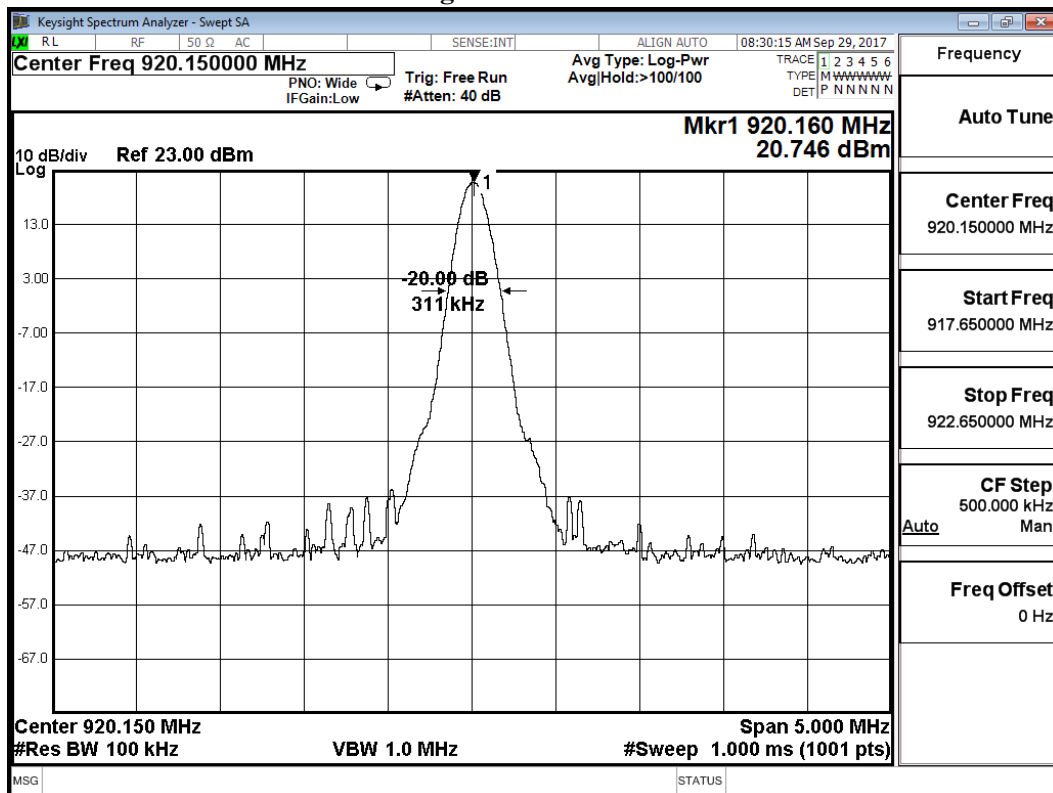
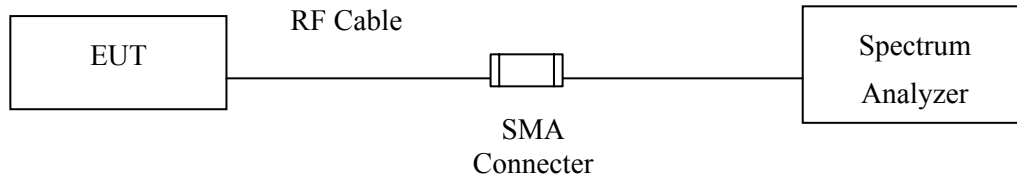


Figure Channel 49:



4. Channel Number

4.1. Test Setup



4.2. Limit

According to FCC Section 15.247(a)(1)(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.

4.3. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

4.4. Uncertainty

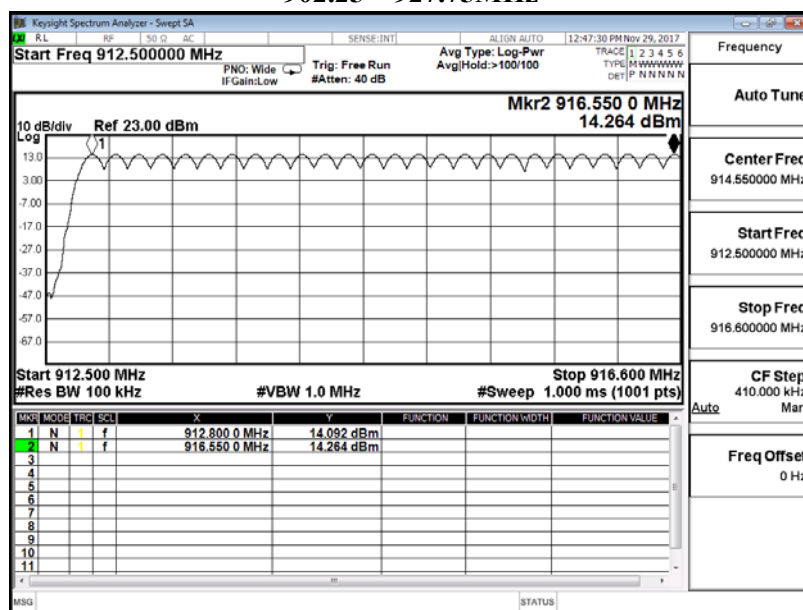
N/A

4.5. Test Result of Channel Number

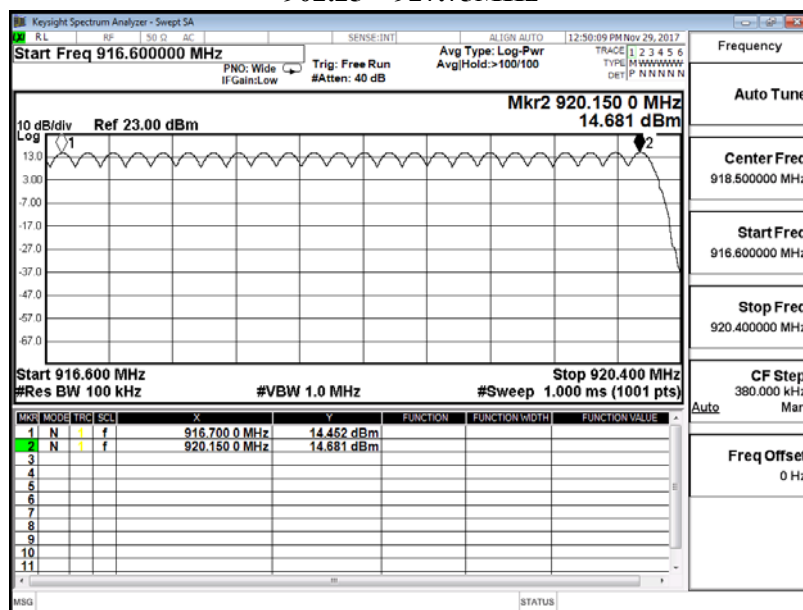
Product : LeanOrder detectionShelf
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit(130x80)-Port 1

Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
902.25 ~ 927.75	50	>25	Pass

902.25 ~ 927.75MHz

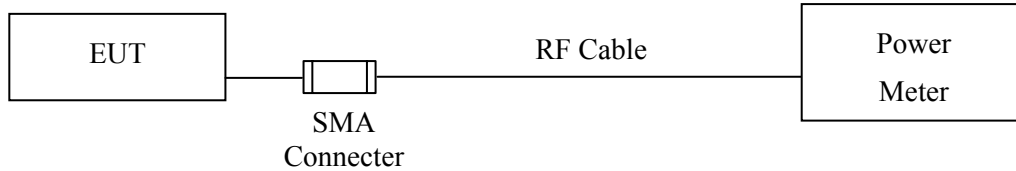


902.25 ~ 927.75MHz



5. Peak Power Output

5.1. Test Setup



5.2. Limit

According to FCC Section 15.247(b)(2). For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels.

5.3. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

5.4. Uncertainty

± 1.19 dB

5.5. Test Result of Peak Power Output

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit(130x80)-Port 1

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	20.85	1 Watt= 30 dBm	Pass
Channel 26	916.55	20.74	1 Watt= 30 dBm	Pass
Channel 50	920.15	20.59	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit(130x80)-Port 2

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	20.71	1 Watt= 30 dBm	Pass
Channel 26	916.55	20.72	1 Watt= 30 dBm	Pass
Channel 50	920.15	20.66	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit(130x80)-Port 4

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	20.73	1 Watt= 30 dBm	Pass
Channel 26	916.55	20.72	1 Watt= 30 dBm	Pass
Channel 50	920.15	18.39	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit(130x80)-Port 5

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	18.47	1 Watt= 30 dBm	Pass
Channel 26	916.55	17.37	1 Watt= 30 dBm	Pass
Channel 50	920.15	20.21	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit(130x80)-Port 6

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	20.79	1 Watt= 30 dBm	Pass
Channel 26	916.55	20.71	1 Watt= 30 dBm	Pass
Channel 50	920.15	20.83	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit(100x60)-Port 1

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	20.85	1 Watt= 30 dBm	Pass
Channel 26	916.55	20.74	1 Watt= 30 dBm	Pass
Channel 50	920.15	20.59	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit(100x60)-Port 2

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	20.71	1 Watt= 30 dBm	Pass
Channel 26	916.55	20.72	1 Watt= 30 dBm	Pass
Channel 50	920.15	20.66	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit(100x60)-Port 3

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	20.70	1 Watt= 30 dBm	Pass
Channel 26	916.55	20.66	1 Watt= 30 dBm	Pass
Channel 50	920.15	20.69	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : LeanOrder detectionShelf
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit(100x60)-Port 4

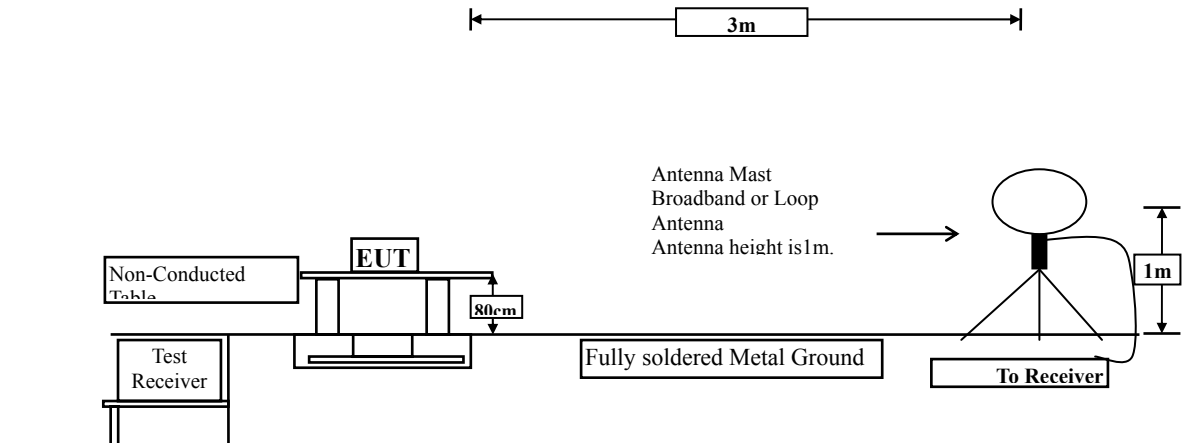
Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 01	912.8	20.73	1 Watt= 30 dBm	Pass
Channel 26	916.55	20.72	1 Watt= 30 dBm	Pass
Channel 50	920.15	18.39	1 Watt= 30 dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

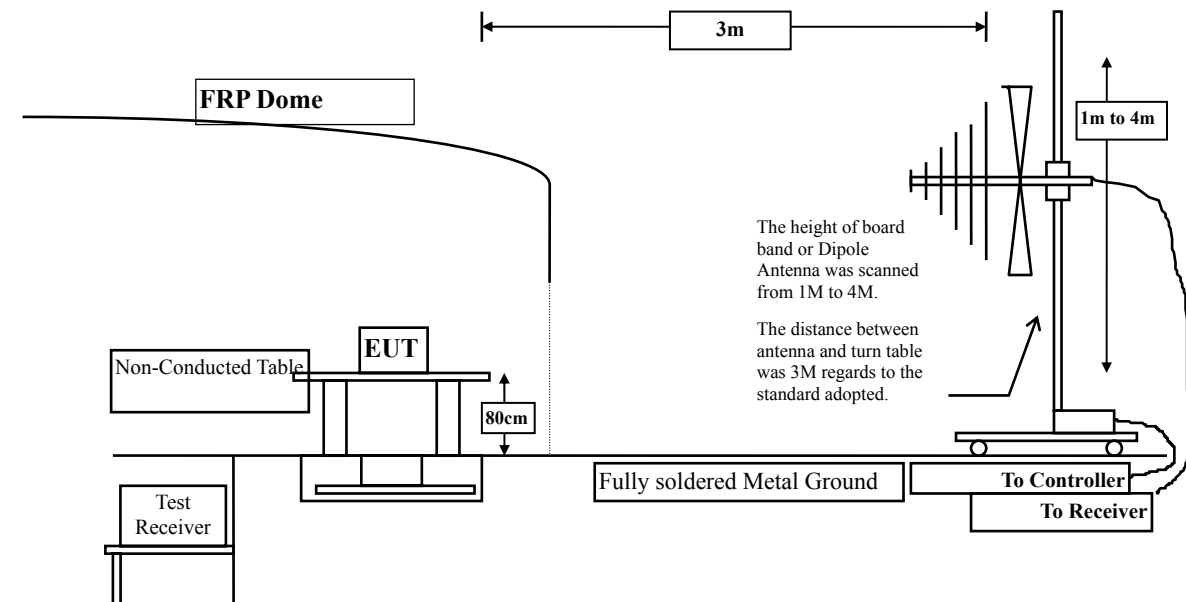
6. Radiated Emission

6.1. Test Setup

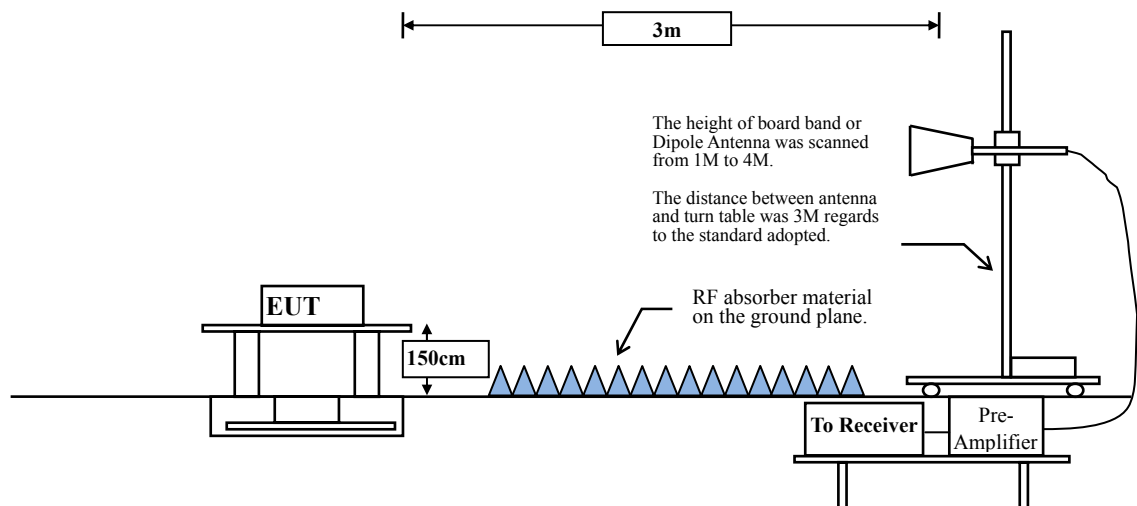
Under 30MHz



Below 1GHz



Above 1GHz



6.2. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBμV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks:
1. RF Voltage (dBμV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 ; tested to FHSS test procedure of FCC Public Notice DA 00-705 and tested compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 3 MHz setting on the field strength meter is 9kHz and 3 MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 3 MHz are made using Loop Antenna and 3 MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

6.4. Uncertainty

± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

6.5. Test Result of Radiated Emission

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 1(912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1825.600	-15.102	69.647	54.545	-19.455	74.000
2738.400	-11.750	64.924	53.174	-20.826	74.000
3651.200	-12.029	54.516	42.488	-31.512	74.000
4564.000	-11.207	55.874	44.668	-29.332	74.000
5476.800	-8.944	52.639	43.696	-30.304	74.000
6389.600	-6.730	52.344	45.614	-28.386	74.000
7302.400	-3.885	51.377	47.491	-26.509	74.000
8215.200	0.243	47.468	47.711	-26.289	74.000
9128.000	-2.521	51.651	49.129	-24.871	74.000
Average Detector:					
1825.600	-15.102	55.230	40.128	-13.872	54.000
Vertical					
Peak Detector:					
1825.600	-13.473	65.215	51.742	-22.258	74.000
2738.400	-11.912	62.943	51.032	-22.968	74.000
3651.200	-11.142	51.917	40.776	-33.224	74.000
4564.000	-7.576	52.461	44.885	-29.115	74.000
5476.800	-7.364	50.482	43.119	-30.881	74.000
6389.600	-5.267	50.227	44.960	-29.040	74.000
7302.400	-3.070	50.986	47.915	-26.085	74.000
8215.200	-0.159	49.510	49.351	-24.649	74.000
9128.000	-2.513	51.796	49.283	-24.717	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 1(916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1833.100	-15.069	69.764	54.695	-19.305	74.000
2749.650	-11.672	64.480	52.809	-21.191	74.000
3666.200	-12.216	56.304	44.089	-29.911	74.000
4582.750	-11.236	59.857	48.622	-25.378	74.000
5499.300	-8.724	54.386	45.662	-28.338	74.000
6415.850	-6.570	52.101	45.532	-28.468	74.000
7332.400	-3.860	52.766	48.905	-25.095	74.000
8248.950	-0.025	48.429	48.404	-25.596	74.000
9165.500	-2.403	51.738	49.334	-24.666	74.000
Average Detector:					
1833.100	-15.069	56.233	41.164	-12.836	54.000
Vertical					
Peak Detector:					
1833.100	-13.565	66.154	52.589	-21.411	74.000
2749.650	-11.842	60.900	49.059	-24.941	74.000
3666.200	-11.231	54.331	43.101	-30.899	74.000
4582.750	-7.499	57.357	49.859	-24.141	74.000
5499.300	-7.261	51.790	44.529	-29.471	74.000
6415.850	-5.168	51.167	45.999	-28.001	74.000
7332.400	-2.943	51.536	48.593	-25.407	74.000
8248.950	-0.045	49.770	49.724	-24.276	74.000
9165.500	-2.514	51.975	49.461	-24.539	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 1(920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1840.300	-15.038	69.993	54.955	-19.045	74.000
2760.450	-11.596	65.389	53.793	-20.207	74.000
3680.600	-12.396	56.394	43.998	-30.002	74.000
4600.750	-11.238	58.384	47.146	-26.854	74.000
5520.900	-8.819	53.426	44.607	-29.393	74.000
6441.050	-6.524	52.678	46.155	-27.845	74.000
7361.200	-3.868	52.518	48.650	-25.350	74.000
8281.350	0.124	48.955	49.079	-24.921	74.000
9201.500	-2.344	52.705	50.361	-23.639	74.000
Average					
Detector:					
1840.300	-15.038	56.303	41.265	-12.735	54.000
Vertical					
Peak Detector:					
1840.300	-13.654	64.962	51.308	-22.692	74.000
2760.450	-11.773	61.298	49.525	-24.475	74.000
3680.600	-11.317	54.303	42.986	-31.014	74.000
4600.750	-7.415	54.060	46.645	-27.355	74.000
5520.900	-7.352	52.055	44.703	-29.297	74.000
6441.050	-5.215	51.414	46.200	-27.800	74.000
7361.200	-2.838	52.233	49.395	-24.605	74.000
8281.350	0.000	50.125	50.124	-23.876	74.000
9201.500	-2.528	53.242	50.714	-23.286	74.000
Average					
Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 2 (912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal Peak Detector:					
1825.600	-15.102	70.535	55.433	-18.567	74.000
2738.400	-11.750	66.688	54.938	-19.062	74.000
3651.200	-12.029	57.979	45.951	-28.049	74.000
4564.000	-11.207	59.284	48.078	-25.922	74.000
5476.800	-8.944	53.489	44.546	-29.454	74.000
6389.600	-6.730	52.440	45.710	-28.290	74.000
7302.400	-3.885	51.518	47.632	-26.368	74.000
8215.200	0.243	48.857	49.100	-24.900	74.000
9128.000	-2.521	52.429	49.907	-24.093	74.000
Average Detector:					
1825.600	-15.102	58.359	43.257	-10.743	54.000
2738.400	-11.750	52.653	40.903	-13.097	54.000
Vertical Peak Detector:					
1825.600	-13.473	65.055	51.582	-22.418	74.000
2738.400	-11.912	65.771	53.860	-20.140	74.000
3651.200	-11.142	54.818	43.677	-30.323	74.000
4564.000	-7.576	55.170	47.594	-26.406	74.000
5476.800	-7.364	51.356	43.993	-30.007	74.000
6389.600	-5.267	50.640	45.373	-28.627	74.000
7302.400	-3.070	51.404	48.333	-25.667	74.000
8215.200	-0.159	49.821	49.662	-24.338	74.000
9128.000	-2.513	52.207	49.694	-24.306	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 2 (916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1833.100	-15.069	72.720	57.651	-16.349	74.000
2749.650	-11.672	67.547	55.876	-18.124	74.000
3666.200	-12.216	61.427	49.212	-24.788	74.000
4582.750	-11.236	67.906	56.671	-17.329	74.000
5499.300	-8.724	64.767	56.043	-17.957	74.000
6415.850	-6.570	55.416	48.847	-25.153	74.000
7332.400	-3.860	52.281	48.420	-25.580	74.000
8248.950	-0.025	48.529	48.504	-25.496	74.000
9165.500	-2.403	52.090	49.686	-24.314	74.000
Average Detector:					
1833.100	-15.069	60.253	45.184	-8.816	54.000
2749.650	-11.672	53.267	41.596	-12.404	54.000
4582.750	-11.236	50.141	38.906	-15.094	54.000
5499.300	-8.724	43.930	35.206	-18.794	54.000
Vertical					
Peak Detector:					
1833.100	-13.565	68.228	54.663	-19.337	74.000
2749.650	-11.842	65.526	53.685	-20.315	74.000
3666.200	-11.231	59.800	48.570	-25.430	74.000
4582.750	-7.499	65.142	57.644	-16.356	74.000
5499.300	-7.261	57.481	50.220	-23.780	74.000
6415.850	-5.168	52.545	47.377	-26.623	74.000
7332.400	-2.943	52.774	49.831	-24.169	74.000
8248.950	-0.045	49.866	49.820	-24.180	74.000
9165.500	-2.514	52.273	49.759	-24.241	74.000
Average Detector:					
1833.100	-13.565	55.885	42.320	-11.680	54.000
4582.750	-7.499	47.948	40.450	-13.550	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 2 (920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1840.300	-15.038	72.538	57.500	-16.500	74.000
2760.450	-11.596	67.081	55.485	-18.515	74.000
3680.600	-12.396	63.271	50.875	-23.125	74.000
4600.750	-11.238	68.282	57.044	-16.956	74.000
5520.900	-8.819	64.666	55.847	-18.153	74.000
6441.050	-6.524	56.746	50.223	-23.777	74.000
7361.200	-3.868	52.910	49.042	-24.958	74.000
8281.350	0.124	48.803	48.927	-25.073	74.000
9201.500	-2.344	52.750	50.406	-23.594	74.000
Average					
Detector:					
1840.300	-15.038	60.304	45.266	-8.734	54.000
2760.450	-11.596	52.481	40.885	-13.115	54.000
4600.750	-11.238	50.531	39.293	-14.707	54.000
5520.900	-8.819	47.087	38.268	-15.732	54.000
Vertical					
Peak Detector:					
1840.300	-13.654	67.645	53.991	-20.009	74.000
2760.450	-11.773	64.898	53.125	-20.875	74.000
3680.600	-11.317	60.944	49.627	-24.373	74.000
4600.750	-7.415	65.556	58.141	-15.859	74.000
5520.900	-7.352	58.619	51.267	-22.733	74.000
6441.050	-5.215	53.251	48.037	-25.963	74.000
7361.200	-2.838	52.647	49.809	-24.191	74.000
8281.350	0.000	49.980	49.979	-24.021	74.000
9201.500	-2.528	52.862	50.334	-23.666	74.000
Average					
Detector:					
4600.750	-7.415	47.944	40.529	-13.471	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 4 (912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1825.600	-15.102	70.411	55.309	-18.691	74.000
2738.400	-11.750	73.814	62.064	-11.936	74.000
3651.200	-12.029	67.332	55.304	-18.696	74.000
4564.000	-11.207	79.823	68.617	-5.383	74.000
5476.800	-8.944	73.235	64.292	-9.708	74.000
6389.600	-6.730	57.453	50.723	-23.277	74.000
7302.400	-3.885	50.201	46.315	-27.685	74.000
8215.200	0.243	48.711	48.954	-25.046	74.000
9128.000	-2.521	47.840	45.318	-28.682	74.000
Average					
Detector:					
1825.600	-15.102	62.366	47.264	-6.736	54.000
2738.400	-11.750	56.659	44.909	-9.091	54.000
3651.200	-12.029	52.227	40.199	-13.801	54.000
4564.000	-11.207	56.758	45.552	-8.448	54.000
5476.800	-8.944	56.782	47.839	-6.161	54.000
Vertical					
Peak Detector:					
1825.600	-13.473	64.114	50.641	-23.359	74.000
2738.400	-11.912	70.191	58.280	-15.720	74.000
3651.200	-11.142	67.793	56.652	-17.348	74.000
4564.000	-7.576	78.389	70.813	-3.187	74.000
5476.800	-7.364	68.989	61.626	-12.374	74.000
6389.600	-5.267	56.253	50.986	-23.014	74.000
7302.400	-3.070	49.272	46.201	-27.799	74.000
8215.200	-0.159	47.630	47.471	-26.529	74.000
9128.000	-2.513	47.262	44.749	-29.251	74.000
Average					
Detector:					
2738.500	-11.911	54.339	42.429	-11.571	54.000
3651.300	-11.142	51.867	40.725	-13.275	54.000
4564.100	-7.575	56.869	49.294	-4.706	54.000
5476.900	-7.363	51.341	43.978	-10.022	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 4 (916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1833.100	-15.069	73.629	58.560	-15.440	74.000
2749.650	-11.672	77.016	65.345	-8.655	74.000
3666.200	-12.216	72.241	60.026	-13.974	74.000
4582.750	-11.236	82.930	71.695	-2.305	74.000
5499.300	-8.724	76.505	67.781	-6.219	74.000
6415.850	-6.570	58.322	51.753	-22.247	74.000
7332.400	-3.860	47.906	44.045	-29.955	74.000
8248.950	-0.025	48.804	48.779	-25.221	74.000
9165.500	-2.403	45.982	43.578	-30.422	74.000
Average					
Detector:					
1833.100	-15.069	59.440	44.371	-9.629	54.000
2749.650	-11.672	59.485	47.814	-6.186	54.000
3666.200	-12.216	56.674	44.459	-9.541	54.000
4582.750	-11.236	61.428	50.193	-3.807	54.000
5499.300	-8.724	57.494	48.770	-5.230	54.000
Vertical					
Peak Detector:					
1833.100	-13.565	70.251	56.686	-17.314	74.000
2749.650	-11.842	74.162	62.321	-11.679	74.000
3666.200	-11.231	68.455	57.225	-16.775	74.000
4582.750	-7.499	80.797	73.299	-0.701	74.000
5499.300	-7.261	71.533	64.272	-9.728	74.000
6415.850	-5.168	57.071	51.903	-22.097	74.000
7332.400	-2.943	49.023	46.080	-27.920	74.000
8248.950	-0.045	48.416	48.370	-25.630	74.000
9165.500	-2.514	46.061	43.547	-30.453	74.000
Average					
Detector:					
1833.100	-13.565	57.242	43.677	-10.323	54.000
2749.650	-11.842	57.457	45.616	-8.384	54.000
3666.200	-11.231	53.577	42.347	-11.653	54.000
4582.750	-7.499	59.182	51.684	-2.316	54.000
5499.300	-7.261	53.411	46.150	-7.850	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 4 (920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1840.300	-15.038	78.002	62.964	-11.036	74.000
2760.450	-11.596	83.589	71.993	-2.007	74.000
3680.600	-12.396	73.425	61.029	-12.971	74.000
4600.750	-11.238	84.780	73.542	-0.458	74.000
5520.900	-8.819	75.150	66.331	-7.669	74.000
6441.050	-6.524	63.014	56.491	-17.509	74.000
7361.200	-3.868	51.695	47.827	-26.173	74.000
8281.350	0.124	55.230	55.354	-18.646	74.000
9201.500	-2.344	48.642	46.298	-27.702	74.000
Average					
Detector:					
1840.300	-15.038	66.477	51.439	-2.561	54.000
2760.450	-11.596	65.179	53.583	-0.417	54.000
3680.600	-12.396	56.816	44.420	-9.580	54.000
4600.750	-11.238	63.897	52.659	-1.341	54.000
5520.900	-8.819	59.311	50.492	-3.508	54.000
6441.050	-6.524	48.803	42.280	-11.720	54.000
Vertical					
Peak Detector:					
1840.300	-13.654	72.703	59.049	-14.951	74.000
2760.450	-11.773	78.657	66.884	-7.116	74.000
3680.600	-11.317	69.373	58.056	-15.944	74.000
4600.750	-7.415	80.862	73.447	-0.553	74.000
5520.900	-7.352	67.954	60.602	-13.398	74.000
6441.050	-5.215	58.385	53.171	-20.829	74.000
7361.200	-2.838	49.638	46.800	-27.200	74.000
8281.350	0.000	48.604	48.603	-25.397	74.000
9201.500	-2.528	44.564	42.036	-31.964	74.000
Average					
Detector:					
1840.300	-13.654	58.201	44.547	-9.453	54.000
2760.450	-11.773	59.304	47.531	-6.469	54.000
3680.600	-11.317	56.351	45.034	-8.966	54.000
4600.750	-7.415	58.188	50.773	-3.227	54.000
5520.900	-7.352	51.144	43.792	-10.208	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 5 (912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1825.600	-15.102	73.835	58.733	-15.267	74.000
2738.400	-11.750	80.007	68.257	-5.743	74.000
3651.200	-12.029	71.166	59.138	-14.862	74.000
4564.000	-11.207	84.380	73.174	-0.826	74.000
5476.800	-8.944	76.390	67.447	-6.553	74.000
6389.600	-6.730	61.744	55.014	-18.986	74.000
7302.400	-3.885	49.709	45.823	-28.177	74.000
8215.200	0.243	50.865	51.108	-22.892	74.000
9128.000	-2.521	46.958	44.436	-29.564	74.000
Average					
Detector:					
1825.600	-15.102	61.785	46.683	-7.317	54.000
2738.400	-11.750	59.175	47.425	-6.575	54.000
3651.200	-12.029	53.736	41.708	-12.292	54.000
4564.000	-11.207	60.045	48.839	-5.161	54.000
5476.800	-8.944	57.079	48.136	-5.864	54.000
6389.600	-6.730	47.374	40.644	-13.356	54.000
Vertical					
Peak Detector:					
1825.600	-13.473	70.422	56.949	-17.051	74.000
2738.400	-11.912	81.245	69.334	-4.666	74.000
3651.200	-11.142	65.629	54.488	-19.512	74.000
4564.000	-7.576	80.485	72.909	-1.091	74.000
5476.800	-7.364	68.608	61.245	-12.755	74.000
6389.600	-5.267	58.440	53.173	-20.827	74.000
7302.400	-3.070	51.389	48.318	-25.682	74.000
8215.200	-0.159	51.588	51.429	-22.571	74.000
9128.000	-2.513	46.476	43.963	-30.037	74.000
Average					
Detector:					
1825.600	-13.473	60.369	46.896	-7.104	54.000
2738.400	-11.912	62.858	50.947	-3.053	54.000
3651.200	-11.142	52.325	41.184	-12.816	54.000
4564.000	-7.576	58.717	51.141	-2.859	54.000
5476.800	-7.364	53.856	46.493	-7.507	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 5 (916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal Peak Detector:					
1833.100	-15.069	73.012	57.943	-16.057	74.000
2749.650	-11.672	76.165	64.494	-9.506	74.000
3666.200	-12.216	70.901	58.686	-15.314	74.000
4582.750	-11.236	78.650	67.415	-6.585	74.000
5499.300	-8.724	77.357	68.633	-5.367	74.000
6415.850	-6.570	60.350	53.781	-20.219	74.000
7332.400	-3.860	48.519	44.658	-29.342	74.000
8248.950	-0.025	50.072	50.047	-23.953	74.000
9166.500	-2.403	47.306	44.902	-29.098	74.000
Average Detector:					
1833.100	-15.069	60.298	45.229	-8.771	54.000
2749.650	-11.672	59.493	47.822	-6.178	54.000
3666.200	-12.216	52.343	40.128	-13.872	54.000
4582.750	-11.236	56.143	44.908	-9.092	54.000
5499.300	-8.724	59.254	50.530	-3.470	54.000
Vertical Peak Detector:					
1833.100	-13.565	63.338	49.773	-24.227	74.000
2749.650	-11.842	73.551	61.710	-12.290	74.000
3666.200	-11.231	70.146	58.916	-15.084	74.000
4582.750	-7.499	78.964	71.466	-2.534	74.000
5499.300	-7.261	69.922	62.661	-11.339	74.000
6415.850	-5.168	60.043	54.875	-19.125	74.000
7332.400	-2.943	49.234	46.291	-27.709	74.000
8248.950	-0.045	48.824	48.778	-25.222	74.000
9165.500	-2.514	46.584	44.070	-29.930	74.000
Average Detector:					
2749.650	-11.842	54.224	42.383	-11.617	54.000
3666.200	-11.231	52.179	40.949	-13.051	54.000
4582.750	-7.499	57.292	49.794	-4.206	54.000
5499.300	-7.261	52.332	45.071	-8.929	54.000
6415.850	-5.168	46.417	41.249	-12.751	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 5 (920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1840.300	-15.038	74.619	59.581	-14.419	74.000
2760.450	-11.596	82.528	70.932	-3.068	74.000
3680.600	-12.396	70.997	58.601	-15.399	74.000
4600.750	-11.238	82.602	71.364	-2.636	74.000
5520.900	-8.819	77.167	68.348	-5.652	74.000
6441.050	-6.524	65.683	59.160	-14.840	74.000
7361.200	-3.868	56.521	52.653	-21.347	74.000
8281.350	0.124	54.536	54.660	-19.340	74.000
9201.500	-2.344	49.685	47.341	-26.659	74.000
Average					
Detector:					
1840.300	-15.038	65.439	50.401	-3.599	54.000
2760.450	-11.596	62.754	51.158	-2.842	54.000
3680.600	-12.396	56.633	44.237	-9.763	54.000
4600.750	-11.238	62.142	50.904	-3.096	54.000
5520.900	-8.819	57.702	48.883	-5.117	54.000
6441.050	-6.524	49.661	43.138	-10.862	54.000
8281.350	0.124	42.903	43.027	-10.973	54.000
Vertical					
Peak Detector:					
1840.300	-13.654	66.552	52.898	-21.102	74.000
2760.450	-11.773	80.105	68.332	-5.668	74.000
3680.600	-11.317	70.371	59.054	-14.946	74.000
4600.750	-7.415	80.935	73.520	-0.480	74.000
5520.900	-7.352	68.979	61.627	-12.373	74.000
6441.050	-5.215	63.863	58.649	-15.351	74.000
7361.200	-2.838	52.302	49.464	-24.536	74.000
8281.350	0.000	53.333	53.332	-20.668	74.000
9201.500	-2.528	46.979	44.451	-29.549	74.000
Average					
Detector:					
2760.450	-11.773	60.559	48.786	-5.214	54.000
3680.600	-11.317	54.597	43.280	-10.720	54.000
4600.750	-7.415	60.887	53.472	-0.528	54.000
5520.900	-7.352	52.429	45.077	-8.923	54.000
6441.050	-5.215	49.546	44.332	-9.668	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 6 (912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal Peak Detector:					
1825.600	-15.102	71.955	56.853	-17.147	74.000
2738.400	-11.750	60.834	49.084	-24.916	74.000
3651.200	-12.029	53.841	41.813	-32.187	74.000
4564.000	-11.207	61.448	50.242	-23.758	74.000
5476.800	-8.944	55.844	46.901	-27.099	74.000
6389.600	-6.730	53.370	46.640	-27.360	74.000
7302.400	-3.885	52.252	48.366	-25.634	74.000
8215.200	0.243	47.711	47.954	-26.046	74.000
9128.000	-2.521	51.484	48.962	-25.038	74.000
Average Detector:					
1825.600	-15.102	61.393	46.291	-7.709	54.000
Vertical Peak Detector:					
1825.600	-13.473	66.007	52.534	-21.466	74.000
2738.400	-11.912	59.843	47.932	-26.068	74.000
3651.200	-11.142	54.420	43.279	-30.721	74.000
4561.000	-7.589	56.124	48.536	-25.464	74.000
5476.800	-7.364	52.682	45.319	-28.681	74.000
6389.600	-5.267	50.884	45.617	-28.383	74.000
7302.400	-3.070	49.983	46.912	-27.088	74.000
8215.200	-0.159	48.248	48.089	-25.911	74.000
9128.000	-2.513	51.408	48.895	-25.105	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 6 (916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1833.100	-15.069	68.137	53.068	-20.932	74.000
2749.890	-11.669	58.901	47.231	-26.769	74.000
3666.200	-12.216	57.762	45.547	-28.453	74.000
4582.750	-11.236	60.409	49.174	-24.826	74.000
5499.300	-8.724	54.292	45.568	-28.432	74.000
6415.850	-6.570	50.233	43.664	-30.336	74.000
7332.400	-3.860	50.275	46.414	-27.586	74.000
8248.950	-0.025	48.500	48.475	-25.525	74.000
9165.500	-2.403	51.054	48.650	-25.350	74.000
Average Detector:					
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Vertical					
Peak Detector:					
1833.100	-13.565	65.136	51.571	-22.429	74.000
2749.650	-11.842	55.384	43.543	-30.457	74.000
3666.200	-11.231	56.333	45.103	-28.897	74.000
4582.750	-7.499	53.897	46.399	-27.601	74.000
5499.300	-7.261	52.646	45.385	-28.615	74.000
6415.850	-5.168	50.602	45.434	-28.566	74.000
7332.400	-2.943	50.847	47.904	-26.096	74.000
8248.950	-0.045	48.822	48.776	-25.224	74.000
9165.500	-2.514	50.990	48.476	-25.524	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 1: Transmit(130x80)-Port 6 (920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1840.300	-15.038	67.693	52.655	-21.345	74.000
2760.450	-11.596	57.877	46.281	-27.719	74.000
3680.600	-12.396	57.440	45.044	-28.956	74.000
4600.750	-11.238	60.320	49.082	-24.918	74.000
5520.900	-8.819	53.947	45.128	-28.872	74.000
6441.050	-6.524	52.195	45.672	-28.328	74.000
7361.200	-3.868	51.770	47.902	-26.098	74.000
8281.350	0.124	47.975	48.099	-25.901	74.000
9201.500	-2.344	52.357	50.013	-23.987	74.000
Average					
Detector:					
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Vertical					
Peak Detector:					
1840.300	-13.654	65.522	51.868	-22.132	74.000
2760.450	-11.773	57.062	45.289	-28.711	74.000
3680.600	-11.317	53.567	42.250	-31.750	74.000
4600.750	-7.415	51.882	44.467	-29.533	74.000
5520.900	-7.352	52.647	45.295	-28.705	74.000
6441.050	-5.215	51.692	46.478	-27.522	74.000
7361.200	-2.838	51.982	49.144	-24.856	74.000
8281.350	0.000	49.627	49.626	-24.374	74.000
9201.500	-2.528	52.053	49.525	-24.475	74.000
Average					
Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 1 (912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1825.600	-15.102	79.544	64.442	-9.558	74.000
2738.400	-11.750	84.844	73.094	-0.906	74.000
3651.200	-12.029	75.848	63.820	-10.180	74.000
4564.000	-11.207	81.550	70.344	-3.656	74.000
5476.800	-8.944	71.868	62.925	-11.075	74.000
6389.600	-6.730	64.895	58.165	-15.835	74.000
7302.400	-3.885	56.385	52.499	-21.501	74.000
8215.200	0.243	49.022	49.265	-24.735	74.000
9128.000	-2.521	50.749	48.227	-25.773	74.000
Average					
Detector:					
1825.600	-15.102	63.571	48.469	-5.531	54.000
2738.400	-11.750	61.909	50.159	-3.841	54.000
3651.200	-12.029	57.355	45.327	-8.673	54.000
4564.000	-11.207	58.607	47.401	-6.599	54.000
5476.800	-8.944	54.212	45.269	-8.731	54.000
6389.600	-6.730	49.801	43.071	-10.929	54.000
Vertical					
Peak Detector:					
1825.600	-13.473	69.511	56.038	-17.962	74.000
2738.400	-11.912	80.326	68.415	-5.585	74.000
3651.200	-11.142	72.552	61.411	-12.589	74.000
4564.000	-7.576	79.369	71.793	-2.207	74.000
5476.800	-7.364	70.465	63.102	-10.898	74.000
6389.600	-5.267	64.554	59.287	-14.713	74.000
7302.400	-3.070	58.819	55.748	-18.252	74.000
8215.200	-0.159	52.109	51.950	-22.050	74.000
9128.000	-2.513	51.498	48.985	-25.015	74.000
Average					
Detector:					
1825.600	-13.473	59.440	45.967	-8.033	54.000
2738.400	-11.912	58.693	46.782	-7.218	54.000
3651.200	-11.142	55.904	44.763	-9.237	54.000
4564.000	-7.576	58.236	50.660	-3.340	54.000
5476.800	-7.364	52.543	45.180	-8.820	54.000
6389.600	-5.267	49.401	44.134	-9.866	54.000
7302.400	-3.070	45.331	42.260	-11.740	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 1 (916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1833.100	-15.069	80.984	65.915	-8.085	74.000
2749.650	-11.672	78.746	67.075	-6.925	74.000
3666.200	-12.216	74.938	62.723	-11.277	74.000
4582.750	-11.236	84.247	73.012	-0.988	74.000
5499.300	-8.724	74.373	65.649	-8.351	74.000
6415.850	-6.570	64.487	57.918	-16.082	74.000
7332.400	-3.860	58.098	54.237	-19.763	74.000
8248.950	-0.025	53.664	53.639	-20.361	74.000
9165.500	-2.403	52.998	50.594	-23.406	74.000
Average					
Detector:					
1833.100	-15.069	68.645	53.576	-0.424	54.000
2749.650	-11.672	60.867	49.196	-4.804	54.000
3666.200	-12.216	58.102	45.887	-8.113	54.000
4582.750	-11.236	62.096	50.861	-3.139	54.000
5499.300	-8.724	56.659	47.935	-6.065	54.000
6415.850	-6.570	49.835	43.266	-10.734	54.000
7332.400	-3.860	44.883	41.022	-12.978	54.000
Vertical					
Peak Detector:					
1833.100	-13.565	71.488	57.923	-16.077	74.000
2749.650	-11.842	75.361	63.520	-10.480	74.000
3666.200	-11.231	75.346	64.116	-9.884	74.000
4582.750	-7.499	78.464	70.966	-3.034	74.000
5499.300	-7.261	69.945	62.684	-11.316	74.000
6415.850	-5.168	65.931	60.763	-13.237	74.000
7332.400	-2.943	57.586	54.643	-19.357	74.000
8248.950	-0.045	51.552	51.506	-22.494	74.000
9165.500	-2.514	49.185	46.671	-27.329	74.000
Average					
Detector:					
1833.100	-13.565	60.498	46.933	-7.067	54.000
2749.650	-11.842	57.836	45.995	-8.005	54.000
3666.200	-11.231	57.056	45.826	-8.174	54.000
4582.750	-7.499	58.989	51.491	-2.509	54.000
5499.300	-7.261	54.379	47.118	-6.882	54.000
6415.850	-5.168	50.920	45.752	-8.248	54.000
7332.400	-2.943	45.270	42.327	-11.673	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 1 (920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1840.300	-15.038	77.433	62.395	-11.605	74.000
2760.450	-11.596	72.767	61.171	-12.829	74.000
3680.600	-12.396	72.421	60.025	-13.975	74.000
4600.750	-11.238	80.014	68.776	-5.224	74.000
5520.900	-8.819	73.577	64.758	-9.242	74.000
6441.050	-6.524	64.585	58.062	-15.938	74.000
7361.200	-3.868	54.541	50.673	-23.327	74.000
8281.350	0.124	49.401	49.525	-24.475	74.000
9201.500	-2.344	46.790	44.446	-29.554	74.000
Average Detector:					
1840.300	-15.038	66.822	51.784	-2.216	54.000
2760.450	-11.596	57.745	46.149	-7.851	54.000
3680.600	-12.396	57.174	44.778	-9.222	54.000
4600.750	-11.238	59.858	48.620	-5.380	54.000
5520.900	-8.819	55.845	47.026	-6.974	54.000
6441.050	-6.524	49.108	42.585	-11.415	54.000
Vertical					
Peak Detector:					
1840.300	-13.654	70.170	56.516	-17.484	74.000
2760.450	-11.773	70.262	58.489	-15.511	74.000
3680.600	-11.317	72.948	61.631	-12.369	74.000
4600.750	-7.415	78.654	71.239	-2.761	74.000
5520.900	-7.352	70.061	62.709	-11.291	74.000
6441.050	-5.215	61.234	56.020	-17.980	74.000
7361.200	-2.838	56.266	53.428	-20.572	74.000
8281.350	0.000	50.557	50.556	-23.444	74.000
9201.500	-2.528	50.424	47.896	-26.104	74.000
Average Detector:					
1840.300	-13.654	58.990	45.336	-8.664	54.000
2760.450	-11.773	55.918	44.145	-9.855	54.000
3680.600	-11.317	56.904	45.587	-8.413	54.000
4600.750	-7.415	58.660	51.245	-2.755	54.000
5520.900	-7.352	53.007	45.655	-8.345	54.000
6441.050	-5.215	47.387	42.173	-11.827	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 2 (912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1825.600	-15.102	79.192	64.090	-9.910	74.000
2738.400	-11.750	77.135	65.385	-8.615	74.000
3651.200	-12.029	73.079	61.051	-12.949	74.000
4564.000	-11.207	81.712	70.506	-3.494	74.000
5476.800	-8.944	75.877	66.934	-7.066	74.000
6389.600	-6.730	66.081	59.351	-14.649	74.000
7302.400	-3.885	56.136	52.250	-21.750	74.000
8215.200	0.243	52.299	52.542	-21.458	74.000
9128.000	-2.521	48.727	46.205	-27.795	74.000
Average Detector:					
1825.600	-15.102	66.742	51.640	-2.360	54.000
2738.400	-11.750	58.318	46.568	-7.432	54.000
3651.200	-12.029	57.156	45.128	-8.872	54.000
4564.000	-11.207	61.942	50.736	-3.264	54.000
5476.800	-8.944	56.744	47.801	-6.199	54.000
6389.600	-6.730	51.274	44.544	-9.456	54.000
Vertical					
Peak Detector:					
1825.600	-13.473	75.111	61.638	-12.362	74.000
2738.400	-11.912	73.368	61.457	-12.543	74.000
3651.200	-11.142	72.336	61.195	-12.805	74.000
4564.000	-7.576	78.132	70.556	-3.444	74.000
5476.800	-7.364	72.843	65.480	-8.520	74.000
6389.600	-5.267	64.535	59.268	-14.732	74.000
7302.400	-3.070	56.439	53.368	-20.632	74.000
8215.200	-0.159	52.921	52.762	-21.238	74.000
9128.000	-2.513	47.253	44.740	-29.260	74.000
Average Detector:					
1825.600	-13.473	62.035	48.562	-5.438	54.000
2738.400	-11.912	54.894	42.983	-11.017	54.000
3651.200	-11.142	55.732	44.591	-9.409	54.000
4564.000	-7.576	58.341	50.765	-3.235	54.000
5476.800	-7.364	54.781	47.418	-6.582	54.000
6389.600	-5.267	51.535	46.268	-7.732	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 2 (916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1833.100	-15.069	77.507	62.438	-11.562	74.000
2749.650	-11.672	72.629	60.958	-13.042	74.000
3666.200	-12.216	70.680	58.465	-15.535	74.000
4582.750	-11.236	80.427	69.192	-4.808	74.000
5499.300	-8.724	71.688	62.964	-11.036	74.000
6415.850	-6.570	62.237	55.668	-18.332	74.000
7332.400	-3.860	52.810	48.949	-25.051	74.000
8248.950	-0.025	47.853	47.828	-26.172	74.000
9165.500	-2.403	48.465	46.061	-27.939	74.000
Average Detector:					
1833.100	-15.069	65.353	50.284	-3.716	54.000
2749.650	-11.672	55.312	43.641	-10.359	54.000
3666.200	-12.216	54.226	42.011	-11.989	54.000
4582.750	-11.236	58.866	47.631	-6.369	54.000
5499.300	-8.724	53.698	44.974	-9.026	54.000
6415.850	-6.570	50.893	44.324	-9.676	54.000
Vertical					
Peak Detector:					
1833.100	-13.565	72.957	59.392	-14.608	74.000
2749.650	-11.842	68.409	56.568	-17.432	74.000
3666.200	-11.231	72.928	61.698	-12.302	74.000
4582.750	-7.499	77.013	69.515	-4.485	74.000
5499.300	-7.261	69.279	62.018	-11.982	74.000
6415.850	-5.168	60.600	55.432	-18.568	74.000
7332.400	-2.943	52.561	49.618	-24.382	74.000
8248.950	-0.045	49.247	49.201	-24.799	74.000
9165.500	-2.514	46.550	44.036	-29.964	74.000
Average Detector:					
1833.100	-13.565	60.975	47.410	-6.590	54.000
2749.650	-11.842	53.590	41.749	-12.251	54.000
3666.200	-11.231	55.041	43.811	-10.189	54.000
4582.750	-7.499	56.648	49.150	-4.850	54.000
5499.300	-7.261	52.913	45.652	-8.348	54.000
6415.850	-5.168	47.815	42.647	-11.353	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 2 (920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1840.300	-15.038	75.353	60.315	-13.685	74.000
2760.450	-11.596	70.119	58.523	-15.477	74.000
3680.600	-12.396	70.616	58.220	-15.780	74.000
4600.750	-11.238	74.880	63.642	-10.358	74.000
5520.900	-8.819	68.102	59.283	-14.717	74.000
6441.050	-6.524	57.514	50.991	-23.009	74.000
7361.200	-3.868	50.129	46.261	-27.739	74.000
8281.350	0.124	47.811	47.935	-26.065	74.000
9201.500	-2.344	47.038	44.694	-29.306	74.000
Average					
Detector:					
1840.300	-15.038	65.926	50.888	-3.112	54.000
2760.450	-11.596	53.284	41.688	-12.312	54.000
3680.600	-12.396	54.901	42.505	-11.495	54.000
4600.750	-11.238	56.071	44.833	-9.167	54.000
5520.900	-8.819	53.988	45.169	-8.831	54.000
Vertical					
Peak Detector:					
1840.300	-13.654	69.675	56.021	-17.979	74.000
2760.450	-11.773	67.986	56.213	-17.787	74.000
3680.600	-11.317	69.307	57.990	-16.010	74.000
4600.750	-7.415	73.483	66.068	-7.932	74.000
5520.900	-7.352	64.583	57.231	-16.769	74.000
6441.050	-5.215	54.168	48.954	-25.046	74.000
7361.200	-2.838	50.713	47.875	-26.125	74.000
8281.350	0.000	49.099	49.098	-24.902	74.000
9201.500	-2.528	48.201	45.673	-28.327	74.000
Average					
Detector:					
1840.300	-13.654	58.162	44.508	-9.492	54.000
2760.450	-11.773	55.043	43.270	-10.730	54.000
3680.600	-11.317	54.368	43.051	-10.949	54.000
4600.750	-7.415	54.300	46.885	-7.115	54.000
5520.900	-7.352	52.709	45.357	-8.643	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 3 (912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal Peak Detector:					
1825.600	-15.102	63.284	48.182	-25.818	74.000
2738.400	-11.750	58.159	46.409	-27.591	74.000
3651.200	-12.029	49.792	37.764	-36.236	74.000
4564.000	-11.207	50.286	39.080	-34.920	74.000
5476.800	-8.944	47.064	38.121	-35.879	74.000
6389.600	-6.730	46.742	40.012	-33.988	74.000
7302.400	-3.885	45.634	41.748	-32.252	74.000
8215.200	0.243	45.349	45.592	-28.408	74.000
9128.000	-2.521	44.852	42.330	-31.670	74.000
Average Detector:					
--					
Vertical Peak Detector:					
1825.600	-13.473	63.276	49.803	-24.197	74.000
2738.400	-11.912	60.545	48.634	-25.366	74.000
3651.200	-11.142	51.919	40.778	-33.222	74.000
4564.000	-7.576	50.162	42.586	-31.414	74.000
5476.800	-7.364	49.975	42.612	-31.388	74.000
6389.600	-5.267	48.885	43.618	-30.382	74.000
7302.400	-3.070	48.811	45.740	-28.260	74.000
8215.200	-0.159	48.446	48.287	-25.713	74.000
9128.000	-2.513	47.996	45.483	-28.517	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 3 (916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1833.100	-15.069	62.856	47.787	-26.213	74.000
2749.650	-11.672	58.070	46.399	-27.601	74.000
3666.200	-12.216	53.538	41.323	-32.677	74.000
4582.750	-11.236	52.690	41.455	-32.545	74.000
5499.300	-8.724	49.383	40.659	-33.341	74.000
6415.850	-6.570	49.169	42.600	-31.400	74.000
7332.400	-3.860	48.943	45.082	-28.918	74.000
8248.950	-0.025	47.432	47.407	-26.593	74.000
9165.500	-2.403	48.660	46.256	-27.744	74.000
Average Detector:					
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Vertical					
Peak Detector:					
1833.100	-13.565	60.344	46.779	-27.221	74.000
2749.650	-11.842	60.089	48.248	-25.752	74.000
3666.200	-11.231	53.430	42.200	-31.800	74.000
4582.750	-7.499	51.458	43.960	-30.040	74.000
5499.300	-7.261	49.669	42.408	-31.592	74.000
6415.850	-5.168	49.479	44.311	-29.689	74.000
7332.400	-2.943	47.763	44.820	-29.180	74.000
8248.950	-0.045	47.547	47.501	-26.499	74.000
9165.500	-2.514	47.858	45.344	-28.656	74.000
Average Detector:					
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Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 3 (920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1840.300	-15.038	64.950	49.912	-24.088	74.000
2760.450	-11.596	63.755	52.159	-21.841	74.000
3680.600	-12.396	52.846	40.450	-33.550	74.000
4600.750	-11.238	52.041	40.803	-33.197	74.000
5520.900	-8.819	51.862	43.043	-30.957	74.000
6441.050	-6.524	49.235	42.712	-31.288	74.000
7361.200	-3.868	47.703	43.835	-30.165	74.000
8281.350	0.124	47.338	47.462	-26.538	74.000
9201.500	-2.344	48.876	46.532	-27.468	74.000
Average Detector:					
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Vertical					
Peak Detector:					
1840.300	-13.654	61.079	47.425	-26.575	74.000
2760.450	-11.773	60.830	49.057	-24.943	74.000
3680.600	-11.317	54.587	43.270	-30.730	74.000
4600.750	-7.415	50.450	43.035	-30.965	74.000
5520.900	-7.352	49.638	42.286	-31.714	74.000
6441.050	-5.215	49.820	44.606	-29.394	74.000
7361.200	-2.838	48.350	45.512	-28.488	74.000
8281.350	0.000	48.666	48.665	-25.335	74.000
9201.500	-2.528	48.916	46.388	-27.612	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 4 (912.8MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal Peak Detector:					
1825.600	-15.102	64.440	49.338	-24.662	74.000
2738.400	-11.750	60.374	48.624	-25.376	74.000
3651.200	-12.029	52.882	40.854	-33.146	74.000
4564.000	-11.207	54.738	43.532	-30.468	74.000
5476.800	-8.944	51.665	42.722	-31.278	74.000
6389.600	-6.730	47.681	40.951	-33.049	74.000
7302.400	-3.885	46.337	42.451	-31.549	74.000
8215.200	0.243	46.216	46.459	-27.541	74.000
9128.000	-2.521	46.728	44.206	-29.794	74.000
Average Detector:					
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Vertical Peak Detector:					
1825.600	-13.473	62.485	49.012	-24.988	74.000
2738.400	-11.912	61.099	49.188	-24.812	74.000
3651.200	-11.142	54.224	43.083	-30.917	74.000
4564.000	-7.576	49.741	42.165	-31.835	74.000
5476.800	-7.364	49.640	42.277	-31.723	74.000
6389.600	-5.267	47.083	41.816	-32.184	74.000
7302.400	-3.070	46.076	43.005	-30.995	74.000
8215.200	-0.159	46.827	46.668	-27.332	74.000
9128.000	-2.513	46.464	43.951	-30.049	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 4 (916.55MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector:					
1833.100	-15.069	65.434	50.365	-23.635	74.000
2749.650	-11.672	62.167	50.496	-23.504	74.000
3666.200	-12.216	57.369	45.154	-28.846	74.000
4582.750	-11.236	57.231	45.996	-28.004	74.000
5499.300	-8.724	50.265	41.541	-32.459	74.000
6415.850	-6.570	47.894	41.325	-32.675	74.000
7332.400	-3.860	46.724	42.863	-31.137	74.000
8248.950	-0.025	46.749	46.724	-27.276	74.000
9165.500	-2.403	46.325	43.921	-30.079	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
1833.100	-13.565	60.841	47.276	-26.724	74.000
2749.650	-11.842	56.524	44.683	-29.317	74.000
3666.200	-11.231	55.094	43.864	-30.136	74.000
4582.750	-7.499	52.428	44.930	-29.070	74.000
5499.300	-7.261	48.521	41.260	-32.740	74.000
6415.850	-5.168	46.993	41.825	-32.175	74.000
7332.400	-2.943	45.803	42.860	-31.140	74.000
8248.950	-0.045	45.611	45.565	-28.435	74.000
9165.500	-2.514	46.319	43.805	-30.195	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/17
 Test Mode : Mode 2: Transmit(100x60)-Port 4 (920.15MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
1840.300	-15.038	63.570	48.532	-25.468	74.000
2760.450	-11.773	57.372	45.599	-28.401	74.000
3680.600	-11.317	52.000	40.683	-33.317	74.000
4600.750	-7.415	53.126	45.711	-28.289	74.000
5520.900	-7.352	48.231	40.879	-33.121	74.000
6441.050	-5.215	47.930	42.716	-31.284	74.000
7361.200	-2.838	47.341	44.503	-29.497	74.000
8281.350	0.000	46.591	46.590	-27.410	74.000
9201.500	-2.528	46.206	43.678	-30.322	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
1840.300	-13.654	62.688	49.034	-24.966	74.000
2760.450	-11.773	58.002	46.229	-27.771	74.000
3680.600	-11.317	51.773	40.456	-33.544	74.000
4600.750	-7.415	51.409	43.994	-30.006	74.000
5520.900	-7.352	51.634	44.282	-29.718	74.000
6441.050	-5.215	47.532	42.318	-31.682	74.000
7361.200	-2.838	48.204	45.366	-28.634	74.000
8281.350	0.000	45.268	45.267	-28.733	74.000
9201.500	-2.528	47.236	44.708	-29.292	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 1 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
43.990	-1.706	32.421	30.715	-9.285	40.000
149.696	-11.743	37.196	25.453	-18.047	43.500
393.750	1.065	31.077	32.142	-13.858	46.000
519.663	3.280	28.428	31.708	-14.292	46.000
749.728	6.871	32.079	38.950	-7.050	46.000
937.821	8.130	28.237	36.367	-9.633	46.000
Vertical					
121.715	-7.375	36.811	29.435	-14.065	43.500
219.647	-0.163	32.302	32.138	-13.862	46.000
396.859	0.489	29.611	30.100	-15.900	46.000
749.728	5.081	30.554	35.635	-10.365	46.000
815.016	6.360	28.238	34.597	-11.403	46.000
986.010	9.272	28.765	38.037	-15.963	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 1 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
79.744	-8.244	36.180	27.936	-12.064	40.000
392.196	0.963	28.238	29.201	-16.799	46.000
533.654	3.930	26.759	30.690	-15.310	46.000
633.141	6.682	25.452	32.134	-13.866	46.000
717.083	6.241	27.075	33.316	-12.684	46.000
964.247	8.431	26.430	34.861	-19.139	54.000
Vertical					
149.696	-5.501	34.808	29.307	-14.193	43.500
191.667	-1.150	33.636	32.486	-11.014	43.500
417.067	0.792	27.256	28.048	-17.952	46.000
611.378	3.742	26.470	30.211	-15.789	46.000
815.016	6.360	27.167	33.526	-12.474	46.000
959.583	9.142	27.469	36.611	-9.389	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 1 (920.15MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
39.327	3.591	29.800	33.391	-6.609	40.000
260.064	-5.482	31.668	26.186	-19.814	46.000
396.859	1.277	30.761	32.038	-13.962	46.000
547.644	4.596	27.591	32.187	-13.813	46.000
634.696	6.669	29.234	35.903	-10.097	46.000
819.679	7.788	28.765	36.553	-9.447	46.000
Vertical					
140.369	-4.993	33.533	28.540	-14.960	43.500
199.439	-0.008	30.344	30.336	-13.164	43.500
396.859	0.489	29.800	30.289	-15.711	46.000
519.663	1.616	26.702	28.318	-17.682	46.000
738.846	4.901	26.984	31.885	-14.115	46.000
961.138	9.144	25.819	34.963	-19.037	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 2 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
39.327	3.591	28.988	32.579	-7.421	40.000
101.506	-3.217	29.134	25.917	-17.583	43.500
337.788	-2.735	28.206	25.471	-20.529	46.000
415.513	1.632	27.711	29.343	-16.657	46.000
724.856	6.396	27.928	34.325	-11.675	46.000
967.356	8.468	25.882	34.350	-19.650	54.000
Vertical					
81.298	-9.384	38.637	29.253	-10.747	40.000
230.529	-0.314	30.724	30.411	-15.589	46.000
395.304	0.382	29.932	30.314	-15.686	46.000
606.715	3.715	28.689	32.404	-13.596	46.000
805.689	6.085	27.293	33.378	-12.622	46.000
967.356	9.178	27.590	36.768	-17.232	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 2 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
101.506	-3.217	28.583	25.366	-18.134	43.500
371.987	-0.415	27.469	27.054	-18.946	46.000
608.269	6.948	28.614	35.561	-10.439	46.000
701.538	5.947	26.191	32.138	-13.862	46.000
790.144	7.616	27.845	35.460	-10.540	46.000
953.365	8.302	26.231	34.533	-11.467	46.000
Vertical					
197.885	-0.212	32.761	32.549	-10.951	43.500
395.304	0.382	28.659	29.041	-16.959	46.000
575.625	3.065	32.779	35.844	-10.156	46.000
749.728	5.081	30.153	35.234	-10.766	46.000
897.404	8.798	27.641	36.439	-9.561	46.000
978.237	9.238	28.552	37.790	-16.210	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 2 (920.15MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
36.218	4.144	29.840	33.984	-6.016	40.000
101.506	-3.217	30.024	26.807	-16.693	43.500
395.304	1.176	30.217	31.393	-14.607	46.000
598.942	6.986	28.125	35.111	-10.889	46.000
790.144	7.616	26.606	34.221	-11.779	46.000
950.256	8.273	28.125	36.398	-9.602	46.000
Vertical					
143.478	-5.124	34.007	28.883	-14.617	43.500
205.657	0.040	30.616	30.656	-12.844	43.500
418.622	0.805	27.076	27.881	-18.119	46.000
616.042	3.781	27.555	31.336	-14.664	46.000
835.224	6.957	25.626	32.583	-13.417	46.000
990.673	9.295	26.271	35.566	-18.434	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 4 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
34.663	4.359	28.238	32.597	-7.403	40.000
199.439	-9.488	30.128	20.640	-22.860	43.500
396.859	1.277	28.915	30.192	-15.808	46.000
542.981	4.379	26.983	31.363	-14.637	46.000
818.125	7.786	24.667	32.453	-13.547	46.000
967.356	8.468	24.906	33.374	-20.626	54.000
Vertical					
99.952	-2.846	29.501	26.655	-16.845	43.500
219.647	-0.163	32.893	32.729	-13.271	46.000
384.423	-0.414	31.406	30.992	-15.008	46.000
586.506	3.333	28.286	31.619	-14.381	46.000
797.917	5.876	27.961	33.837	-12.163	46.000
922.276	8.973	27.761	36.734	-9.266	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 4 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
39.327	3.591	29.234	32.825	-7.175	40.000
107.724	-5.310	30.554	25.243	-18.257	43.500
384.423	0.432	32.874	33.306	-12.694	46.000
602.051	7.017	28.582	35.600	-10.400	46.000
830.561	7.769	28.157	35.927	-10.073	46.000
959.583	8.375	28.286	36.661	-9.339	46.000
Vertical					
99.952	-2.846	26.606	23.760	-19.740	43.500
207.212	0.022	27.166	27.188	-16.312	43.500
432.612	0.852	26.606	27.458	-18.542	46.000
612.933	3.762	25.407	29.169	-16.831	46.000
790.144	5.746	26.371	32.116	-13.884	46.000
976.683	9.234	25.986	35.220	-18.780	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 4 (920.15MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
33.109	4.338	29.061	33.399	-6.601	40.000
149.696	-11.743	34.831	23.088	-20.412	43.500
392.196	0.963	27.021	27.984	-18.016	46.000
594.279	6.781	26.431	33.212	-12.788	46.000
790.144	7.616	25.296	32.911	-13.089	46.000
953.365	8.302	26.088	34.390	-11.610	46.000
Vertical					
106.170	-4.252	28.582	24.330	-19.170	43.500
199.439	-0.008	29.446	29.438	-14.062	43.500
403.077	0.742	26.702	27.444	-18.556	46.000
575.625	3.065	30.902	33.967	-12.033	46.000
864.760	7.840	28.884	36.724	-9.276	46.000
933.157	9.020	26.891	35.911	-10.089	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 5 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
39.327	3.591	28.505	32.096	-7.904	40.000
281.827	-5.389	28.505	23.116	-22.884	46.000
487.019	2.248	28.349	30.596	-15.404	46.000
622.260	6.802	26.606	33.408	-12.592	46.000
746.619	6.812	26.797	33.609	-12.391	46.000
951.811	8.292	28.044	36.336	-9.664	46.000
Vertical					
81.298	-9.384	39.523	30.139	-9.861	40.000
141.923	-5.031	35.361	30.330	-13.170	43.500
218.093	-0.135	32.471	32.336	-13.664	46.000
445.048	0.888	27.503	28.391	-17.609	46.000
864.760	7.840	35.339	43.179	-2.821	46.000
937.821	8.130	28.237	36.367	-9.633	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 5 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
50.208	-10.283	36.970	26.687	-13.313	40.000
121.715	-9.600	39.221	29.621	-13.879	43.500
418.622	1.661	31.882	33.543	-12.457	46.000
631.587	6.702	29.473	36.175	-9.825	46.000
807.244	7.795	28.884	36.679	-9.321	46.000
987.564	8.705	28.613	37.318	-16.682	54.000
Vertical					
47.099	-9.186	38.017	28.831	-11.169	40.000
218.093	-0.135	28.076	27.941	-18.059	46.000
250.737	-0.669	27.590	26.921	-19.079	46.000
421.731	0.804	27.468	28.272	-17.728	46.000
480.801	1.025	34.378	35.403	-10.597	46.000
788.590	5.720	27.795	33.514	-12.486	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 5 (920.15MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
79.744	-8.244	37.775	29.531	-10.469	40.000
384.423	0.432	31.775	32.207	-13.793	46.000
532.099	3.853	26.759	30.612	-15.388	46.000
620.705	6.815	27.878	34.692	-11.308	46.000
824.343	7.776	26.759	34.535	-11.465	46.000
951.811	8.292	26.371	34.663	-11.337	46.000
Vertical					
73.526	-10.282	40.593	30.312	-9.688	40.000
204.103	0.060	29.446	29.506	-13.994	43.500
516.554	1.535	29.840	31.375	-14.625	46.000
763.718	5.311	28.396	33.707	-12.293	46.000
903.622	8.891	27.590	36.481	-9.519	46.000
981.346	9.257	26.231	35.488	-18.512	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 6 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
68.862	-8.510	41.546	33.036	-6.964	40.000
384.423	0.432	34.401	34.833	-11.167	46.000
429.503	1.747	29.638	31.385	-14.615	46.000
609.824	6.935	28.735	35.671	-10.329	46.000
799.471	7.796	28.660	36.455	-9.545	46.000
930.048	8.042	28.840	36.882	-9.118	46.000
Vertical					
121.715	-7.375	36.667	29.291	-14.209	43.500
208.766	0.000	29.262	29.262	-14.238	43.500
395.304	0.382	33.142	33.524	-12.476	46.000
546.090	2.298	26.796	29.094	-16.906	46.000
644.022	3.943	26.272	30.215	-15.785	46.000
780.817	5.581	27.845	33.427	-12.573	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 6 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
87.516	-8.559	42.724	34.165	-5.835	40.000
396.859	1.277	34.282	35.559	-10.441	46.000
589.615	6.561	28.349	34.910	-11.090	46.000
797.917	7.762	28.427	36.190	-9.810	46.000
897.404	7.703	27.469	35.172	-10.828	46.000
970.465	8.509	28.735	37.243	-16.757	54.000
Vertical					
81.298	-9.384	41.350	31.966	-8.034	40.000
353.333	-2.700	28.285	25.585	-20.415	46.000
516.554	1.535	27.416	28.951	-17.049	46.000
738.846	4.901	28.765	33.666	-12.334	46.000
819.679	6.501	27.021	33.522	-12.478	46.000
993.782	9.296	27.076	36.372	-17.628	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 1: Transmit(130x80)-Port 6 (920.15MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
45.545	-3.817	35.700	31.882	-8.118	40.000
121.715	-9.600	40.295	30.695	-12.805	43.500
371.987	-0.415	30.306	29.891	-16.109	46.000
546.090	4.519	29.061	33.580	-12.420	46.000
768.381	7.200	30.700	37.900	-8.100	46.000
911.394	7.838	28.044	35.881	-10.119	46.000
Vertical					
43.990	-7.201	40.028	32.826	-7.174	40.000
260.064	-1.784	33.187	31.404	-14.596	46.000
449.712	0.912	29.500	30.412	-15.588	46.000
606.715	3.715	28.043	31.758	-14.242	46.000
807.244	6.126	28.583	34.709	-11.291	46.000
959.583	9.142	28.659	37.801	-8.199	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 1 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
89.071	-8.632	40.574	31.942	-11.558	43.500
260.064	-5.482	33.866	28.384	-17.616	46.000
382.869	0.322	33.032	33.354	-12.646	46.000
449.712	1.926	30.880	32.805	-13.195	46.000
810.353	7.798	28.810	36.608	-9.392	46.000
919.167	7.917	28.475	36.391	-9.609	46.000
Vertical					
43.990	-7.201	40.028	32.826	-7.174	40.000
191.667	-1.150	36.899	35.749	-7.751	43.500
396.859	0.489	35.713	36.202	-9.798	46.000
546.090	2.298	29.839	32.137	-13.863	46.000
768.381	5.378	30.844	36.222	-9.778	46.000
975.128	9.220	28.884	38.104	-15.896	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 1 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
65.753	-9.723	35.993	26.269	-13.731	40.000
344.006	-2.323	27.328	25.005	-20.995	46.000
426.394	1.722	26.606	28.328	-17.672	46.000
510.337	2.840	26.890	29.730	-16.270	46.000
620.705	6.815	25.776	32.590	-13.410	46.000
715.529	6.206	27.292	33.498	-12.502	46.000
Vertical					
87.516	-7.217	37.759	30.542	-9.458	40.000
214.984	-0.085	29.932	29.847	-13.653	43.500
389.087	-0.079	32.684	32.605	-13.395	46.000
595.833	3.582	27.257	30.838	-15.162	46.000
699.984	4.239	27.075	31.314	-14.686	46.000
917.612	8.958	27.256	36.214	-9.786	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 1 (920.15MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
40.881	2.311	29.090	31.401	-8.599	40.000
121.715	-9.600	37.938	28.338	-15.162	43.500
260.064	-5.482	31.101	25.619	-20.381	46.000
384.423	0.432	30.616	31.048	-14.952	46.000
519.663	3.280	27.293	30.573	-15.427	46.000
639.359	6.621	26.431	33.052	-12.948	46.000
Vertical					
200.994	0.081	28.158	28.239	-15.261	43.500
384.423	-0.414	29.706	29.292	-16.708	46.000
519.663	1.616	27.928	29.544	-16.456	46.000
640.913	3.930	27.556	31.486	-14.514	46.000
808.798	6.177	26.702	32.879	-13.121	46.000
925.385	8.987	26.271	35.258	-10.742	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 2 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
68.862	-8.510	39.253	30.743	-9.257	40.000
385.978	0.531	30.517	31.049	-14.951	46.000
398.413	1.386	31.807	33.194	-12.806	46.000
588.061	6.495	27.167	33.661	-12.339	46.000
745.064	6.778	27.962	34.739	-11.261	46.000
967.356	8.468	27.076	35.544	-18.456	54.000
Vertical					
68.862	-10.912	40.889	29.977	-10.023	40.000
197.885	-0.212	29.867	29.655	-13.845	43.500
389.087	-0.079	31.406	31.327	-14.673	46.000
588.061	3.388	28.044	31.432	-14.568	46.000
759.054	5.227	28.885	34.112	-11.888	46.000
961.138	9.144	28.506	37.650	-16.350	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 2 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
76.635	-8.186	34.664	26.478	-13.522	40.000
260.064	-5.482	32.471	26.989	-19.011	46.000
448.157	1.912	27.845	29.757	-16.243	46.000
636.250	6.657	27.794	34.451	-11.549	46.000
752.837	6.926	27.203	34.129	-11.871	46.000
984.455	8.671	27.556	36.227	-17.773	54.000
Vertical					
87.516	-7.217	35.828	28.611	-11.389	40.000
199.439	-0.008	28.238	28.230	-15.270	43.500
247.628	-0.530	25.734	25.203	-20.797	46.000
353.333	-2.700	26.331	23.631	-22.369	46.000
516.554	1.535	23.535	25.070	-20.930	46.000
752.837	5.128	25.408	30.536	-15.464	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 2 (920.15MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
246.074	-5.828	30.760	24.932	-21.068	46.000
491.683	2.292	28.988	31.279	-14.721	46.000
710.865	6.124	28.158	34.282	-11.718	46.000
808.798	7.799	27.256	35.055	-10.945	46.000
945.593	8.217	28.396	36.613	-9.387	46.000
986.010	8.688	27.590	36.278	-17.722	54.000
Vertical					
43.990	-7.201	37.603	30.401	-9.599	40.000
121.715	-7.375	37.695	30.319	-13.181	43.500
244.519	-0.497	30.517	30.020	-15.980	46.000
395.304	0.382	31.538	31.920	-14.080	46.000
672.003	4.088	32.920	37.008	-8.992	46.000
925.385	8.987	26.663	35.650	-10.350	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 3 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
71.971	-8.098	41.102	33.004	-6.996	40.000
260.064	-5.482	32.471	26.989	-19.011	46.000
443.494	1.861	29.445	31.306	-14.694	46.000
602.051	7.017	28.735	35.753	-10.247	46.000
780.817	7.432	27.879	35.311	-10.689	46.000
970.465	8.509	27.994	36.502	-17.498	54.000
Vertical					
79.744	-9.815	37.510	27.695	-12.305	40.000
194.776	-0.684	31.077	30.393	-13.107	43.500
382.869	-0.538	32.893	32.355	-13.645	46.000
754.391	5.162	28.810	33.972	-12.028	46.000
811.907	6.267	28.396	34.663	-11.337	46.000
908.285	8.915	28.396	37.311	-8.689	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 3 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
68.862	-8.510	39.244	30.734	-9.266	40.000
396.859	1.277	29.018	30.295	-15.705	46.000
532.099	3.853	27.469	31.322	-14.678	46.000
713.974	6.185	27.328	33.513	-12.487	46.000
864.760	7.748	30.579	38.327	-7.673	46.000
933.157	8.071	27.257	35.328	-10.672	46.000
Vertical					
47.099	-9.186	38.043	28.857	-11.143	40.000
121.715	-7.375	39.199	31.823	-11.677	43.500
218.093	-0.135	30.217	30.082	-15.918	46.000
387.532	-0.193	30.518	30.325	-15.675	46.000
539.872	2.142	27.416	29.558	-16.442	46.000
633.141	3.878	26.130	30.008	-15.992	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 3 (920.15MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
43.990	-1.706	32.636	30.930	-9.070	40.000
256.955	-5.502	29.933	24.431	-21.569	46.000
381.314	0.223	27.555	27.778	-18.222	46.000
427.949	1.737	26.371	28.108	-17.892	46.000
672.003	6.239	31.483	37.722	-8.278	46.000
804.135	7.802	26.272	34.074	-11.926	46.000
Vertical					
85.962	-7.762	34.935	27.173	-12.827	40.000
205.657	0.040	27.928	27.968	-15.532	43.500
260.064	-1.784	31.985	30.202	-15.798	46.000
480.801	1.025	31.516	32.541	-13.459	46.000
745.064	5.008	25.924	30.931	-15.069	46.000
939.375	9.054	27.845	36.899	-9.101	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 4 (912.8MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
121.715	-9.600	36.408	26.808	-16.692	43.500
532.099	3.853	25.923	29.776	-16.224	46.000
696.875	5.953	25.251	31.204	-14.796	46.000
766.827	7.176	26.089	33.265	-12.735	46.000
852.324	7.745	26.028	33.773	-12.227	46.000
972.019	8.531	26.606	35.137	-18.863	54.000
Vertical					
121.715	-7.375	39.343	31.967	-11.533	43.500
204.103	0.060	28.659	28.719	-14.781	43.500
633.141	3.878	27.928	31.806	-14.194	46.000
763.718	5.311	28.659	33.970	-12.030	46.000
827.452	6.724	28.582	35.307	-10.693	46.000
959.583	9.142	27.642	36.784	-9.216	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 4 (916.55MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
45.545	-3.817	34.906	31.088	-8.912	40.000
87.516	-8.559	37.443	28.884	-11.116	40.000
286.490	-5.374	31.571	26.197	-19.803	46.000
724.856	6.396	28.914	35.311	-10.689	46.000
811.907	7.794	28.583	36.377	-9.623	46.000
909.840	7.819	29.305	37.124	-8.876	46.000
Vertical					
121.715	-7.375	39.343	31.967	-11.533	43.500
396.859	0.489	33.663	34.152	-11.848	46.000
651.795	3.982	28.286	32.268	-13.732	46.000
741.955	4.949	28.076	33.024	-12.976	46.000
897.404	8.798	28.735	37.533	-8.467	46.000
972.019	9.211	27.328	36.539	-17.461	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : LeanOrder detectionShelf
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Date : 2018/04/19
 Test Mode : Mode 2: Transmit(100x60)-Port 4 (920.15MHz)

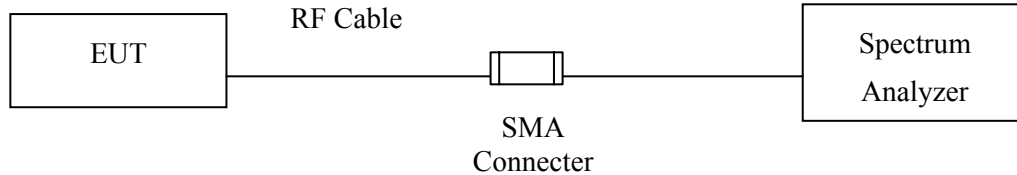
Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
107.724	-5.310	31.647	26.336	-17.164	43.500
269.391	-5.447	30.089	24.642	-21.358	46.000
382.869	0.322	29.134	29.456	-16.544	46.000
499.455	2.373	26.470	28.843	-17.157	46.000
815.016	7.791	26.890	34.681	-11.319	46.000
989.119	8.722	26.758	35.480	-18.520	54.000
Vertical					
193.221	-0.915	26.470	25.554	-17.946	43.500
340.897	-3.595	25.986	22.391	-23.609	46.000
362.660	-2.004	25.451	23.448	-22.552	46.000
511.891	1.410	27.293	28.703	-17.297	46.000
560.080	2.659	26.606	29.265	-16.735	46.000
925.385	8.987	26.567	35.554	-10.446	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

7. RF Antenna Conducted Test

7.1. Test Setup



7.2. Limits

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.3. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

7.4. Uncertainty

$\pm 1.20\text{dB}$

7.5. Test Result of RF Antenna Conducted Test

Product : LeanOrder detectionShelf
Test Item : RF Antenna Conducted Test
Test Site : No.3 OATS
Test Date : 2017/10/13
Test Mode : Mode 1: Transmit(130x80)-Port 1

Figure Channel 01:

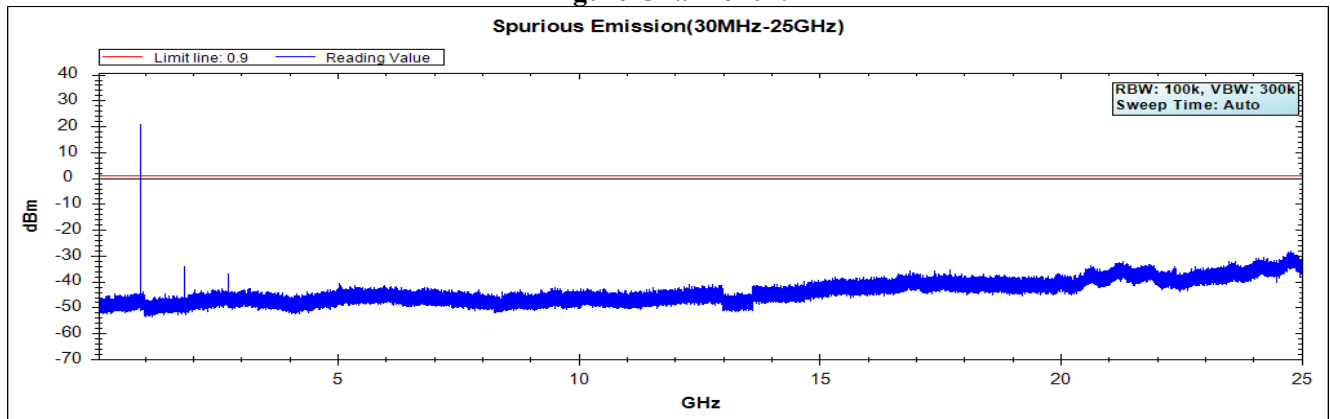


Figure Channel 26:

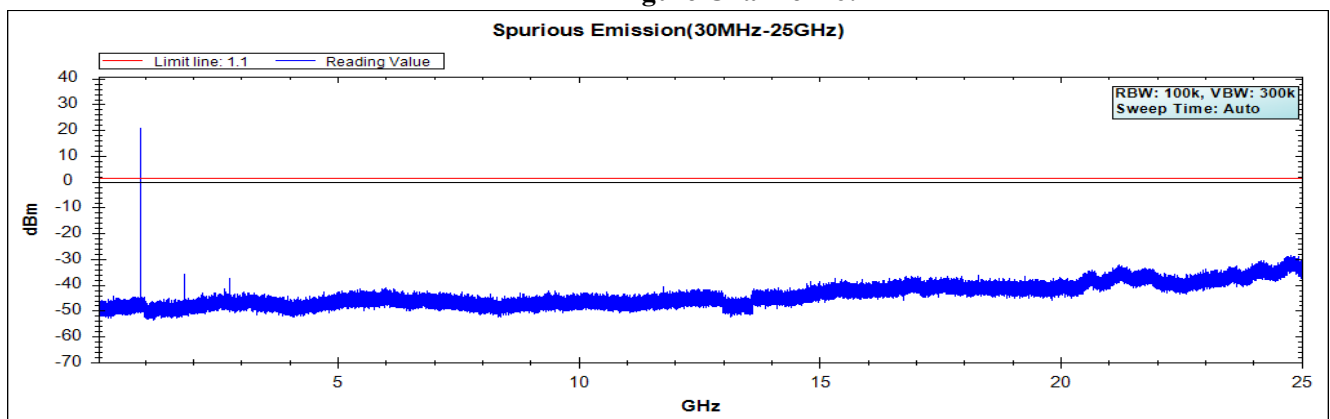
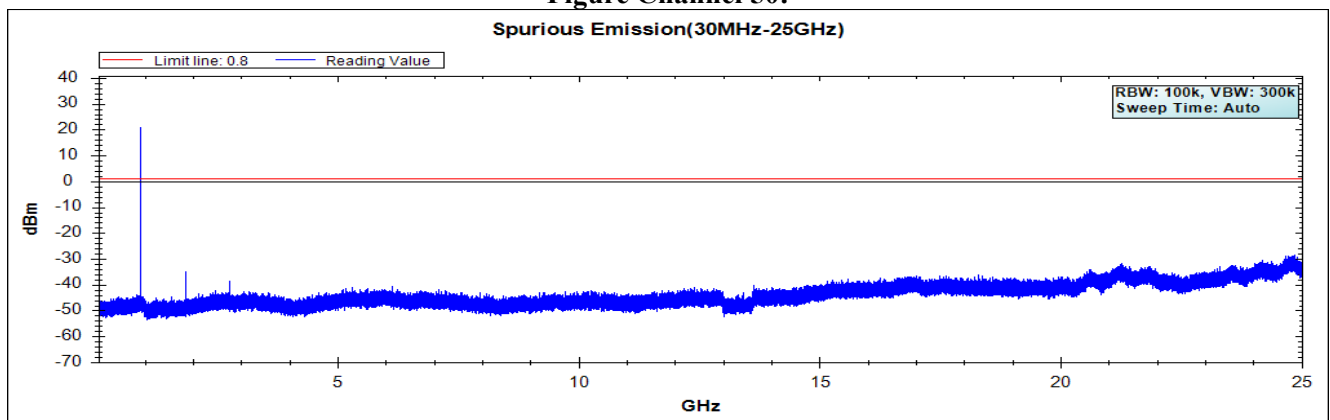


Figure Channel 50:

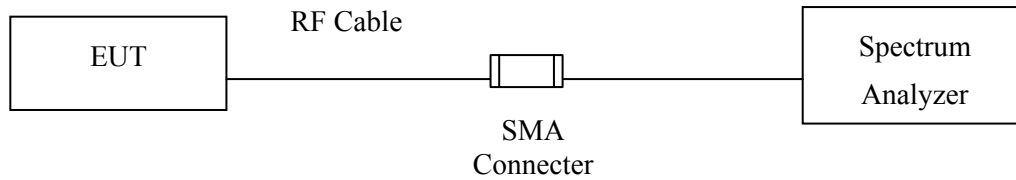


Note: The above test pattern is synthesized by multiple of the frequency range.

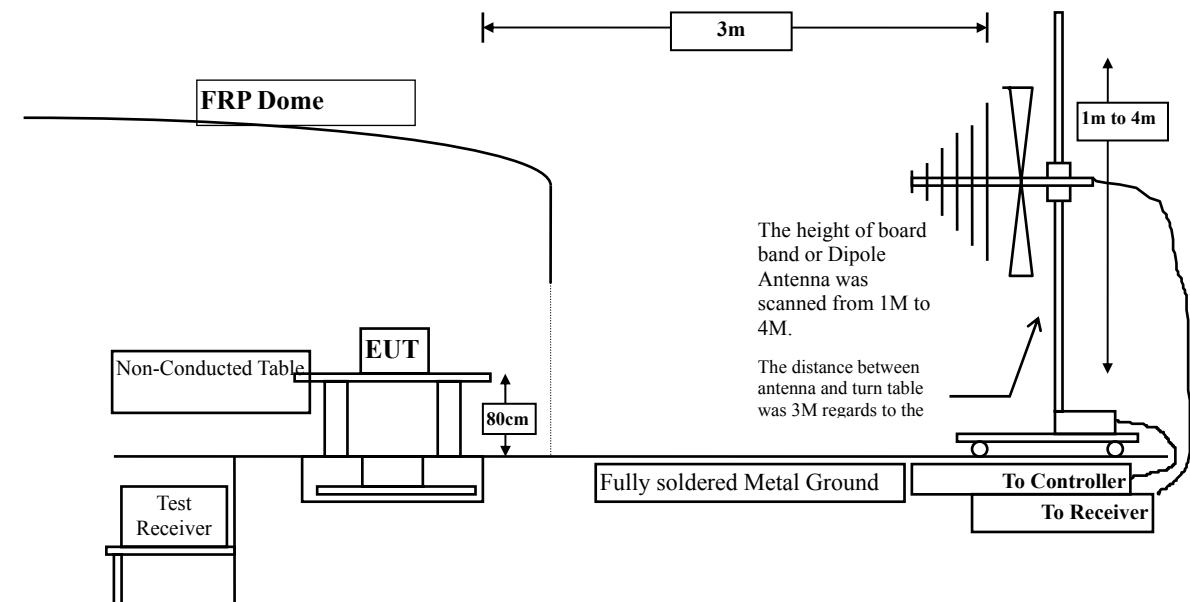
8. Band Edge

8.1. Test Setup

RF Conducted Measurement



RF Radiated Measurement



8.2. Limit

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBμV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks:
1. RF Voltage (dBμV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

8.3. Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

8.4. Uncertainty

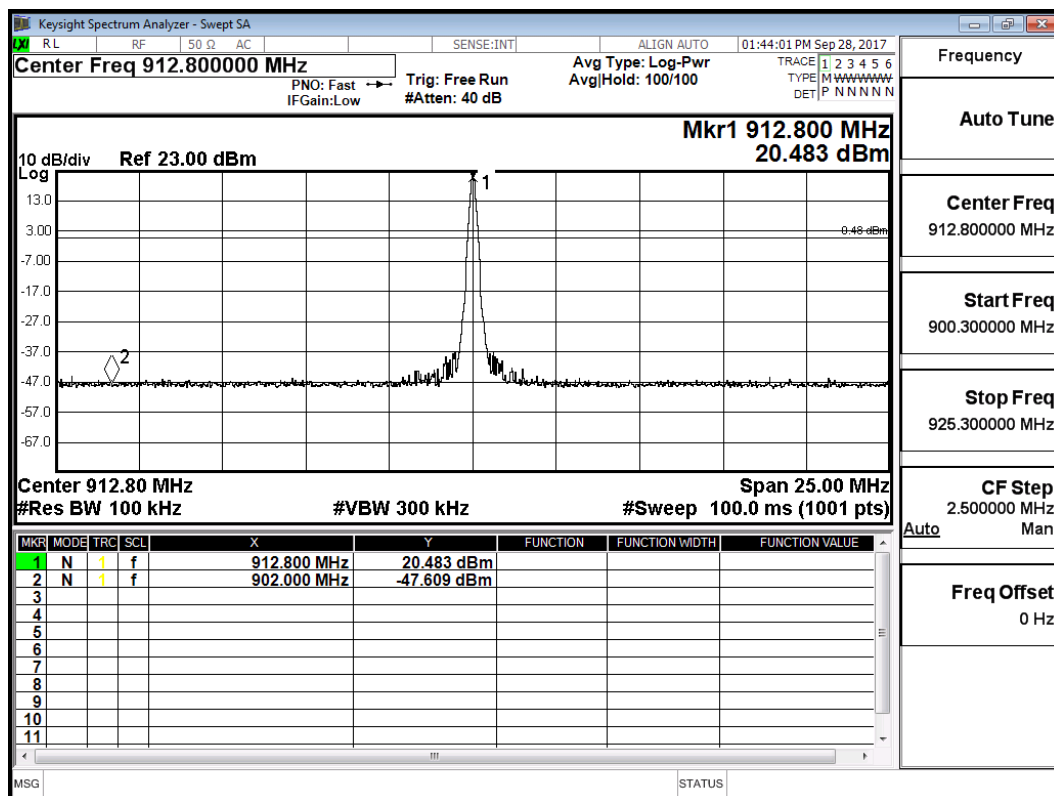
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

8.5. Test Result of Band Edge

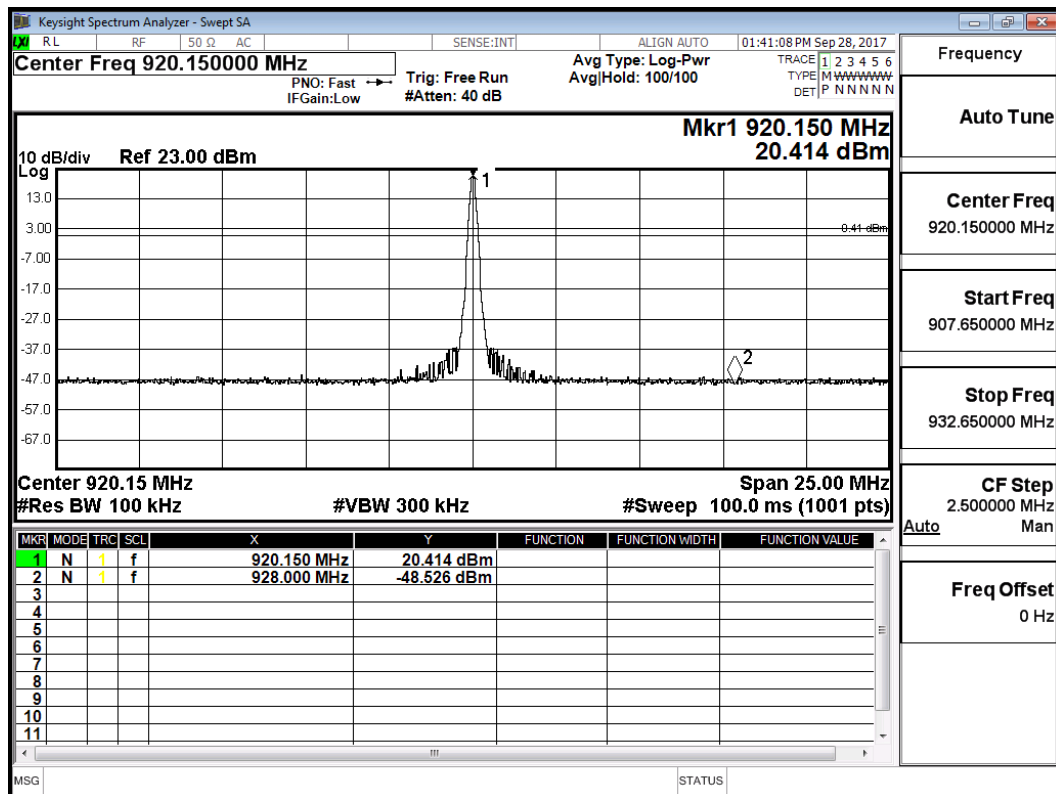
Product : LeanOrder detectionShelf
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit(130x80)-Port 1 (912.8MHz)

Test Frequency (MHz)	Measurement Level Δ (dB)	Limit Δ (dB)	Result
912.8	48.092	>20	PASS



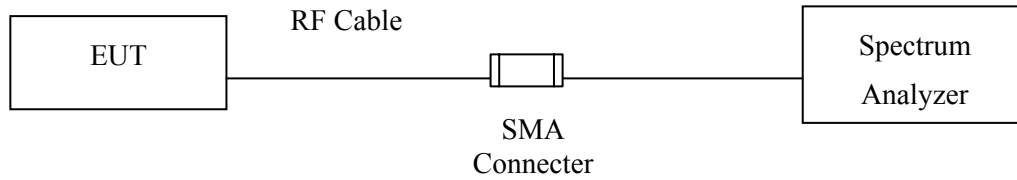
Product : LeanOrder detectionShelf
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit(130x80)-Port 1 (920.15MHz)

Test Frequency (MHz)	Measurement Level Δ (dB)	Limit Δ (dB)	Result
920.15	48.94	>20	PASS



9. Channel Separation

9.1. Test Setup



9.2. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

9.3. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

9.4. Uncertainty

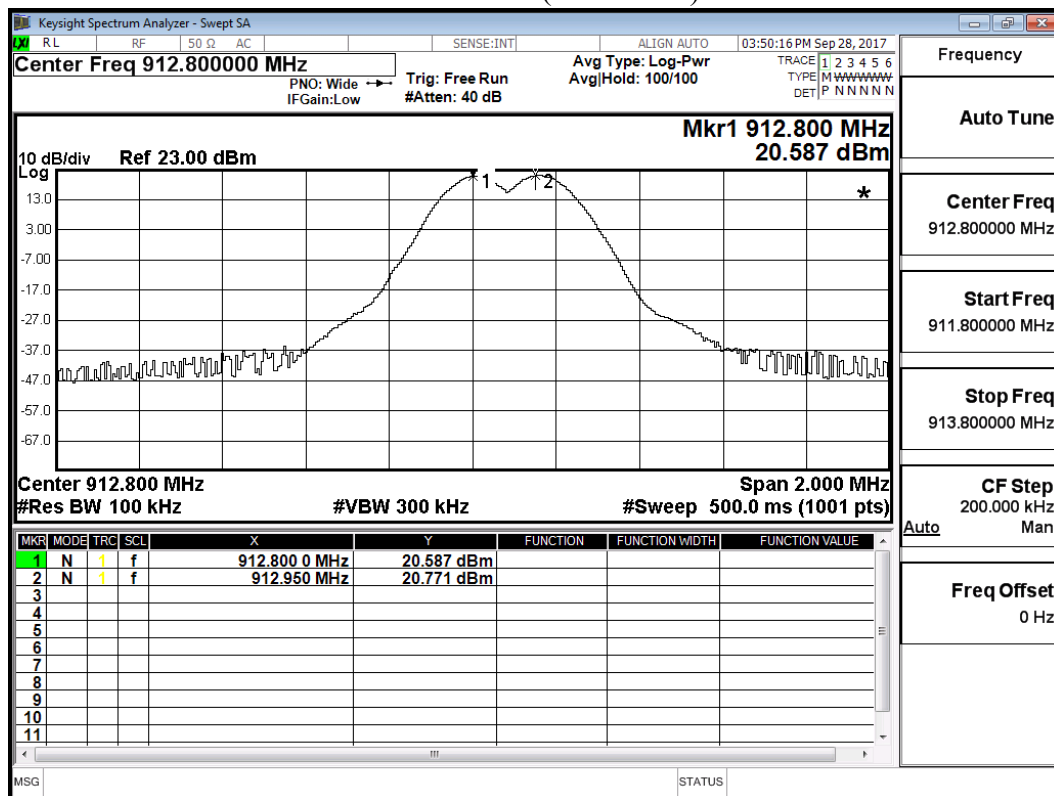
$\pm 283\text{Hz}$

9.5. Test Result of Channel Separation

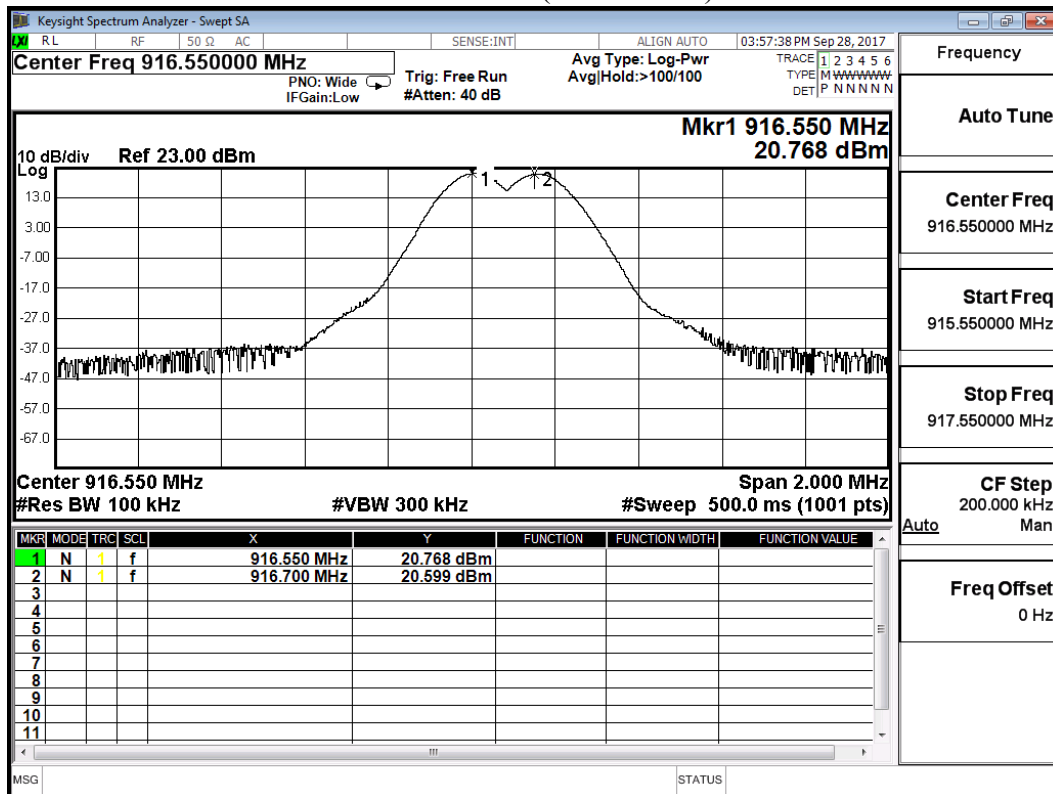
Product : LeanOrder detectionShelf
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit(130x80)-Port 1

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Limit (kHz)	Result
01	912.8	150	>25 kHz	Pass
26	916.55	150	>25 kHz	Pass
50	920.15	150	>25 kHz	Pass

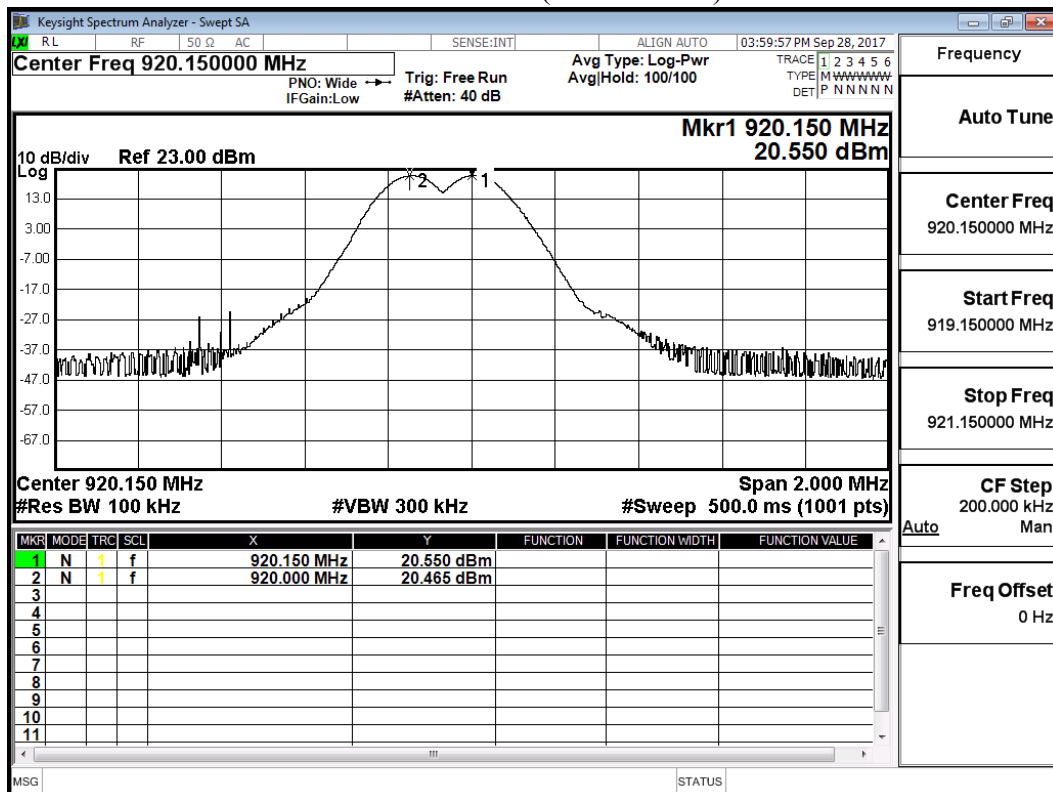
Channel 01 (912.8MHz)



Channel 26 (916.55MHz)

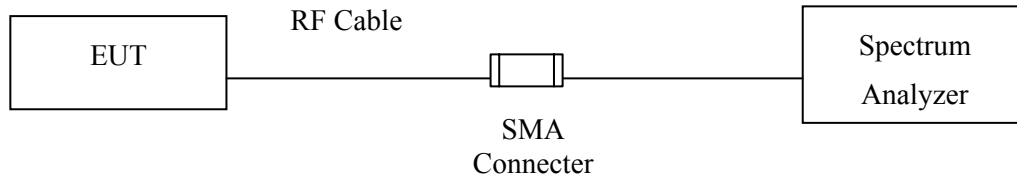


Channel 50 (920.15 MHz)



10. Dwell Time

10.1. Test Setup



10.2. Limit

According to FCC Section 15.247(a)(1)(i). If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

10.3. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

10.4. Uncertainty

$\pm 25\text{msec}$

10.5. Test Result of Dwell Time

Product : LeanOrder detectionShelf
Test Item : Dwell Time
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit(130x80)-Port 1

Frequency (MHz)	Time slot length (s)	Hopping of Number	Sweep time (s)	Dwell Time (s)	Limit (Sec)	Result
912.8	0.0153	4	10	0.061	0.4	Pass
916.55	0.0153	4	10	0.061	0.4	Pass
920.15	0.0153	4	10	0.061	0.4	Pass

Note:

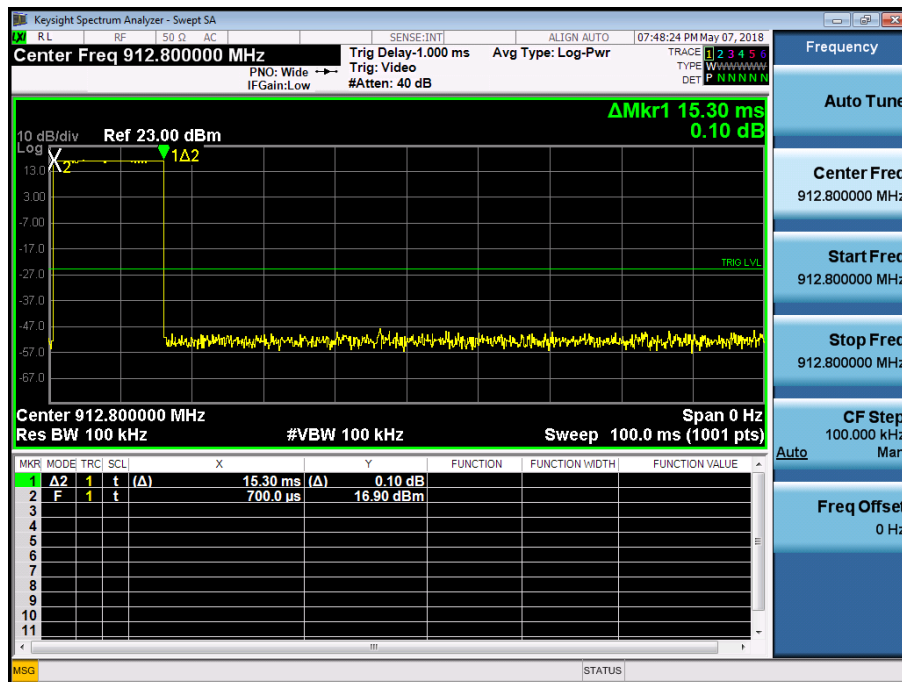
(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time).

(Number of hops in the period specified in the requirements) = 4 * (10s / 10s)

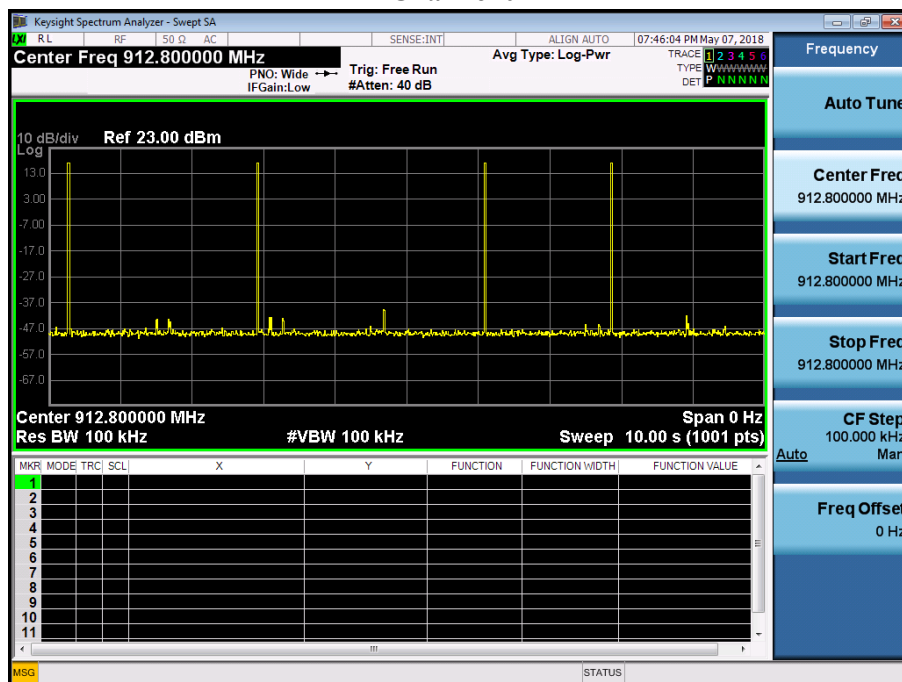
Dwell Time = (Time slot length * (Number of hops in the period specified in the requirements))

Dwell Time = (0.0153s) * 4 = 0.061s

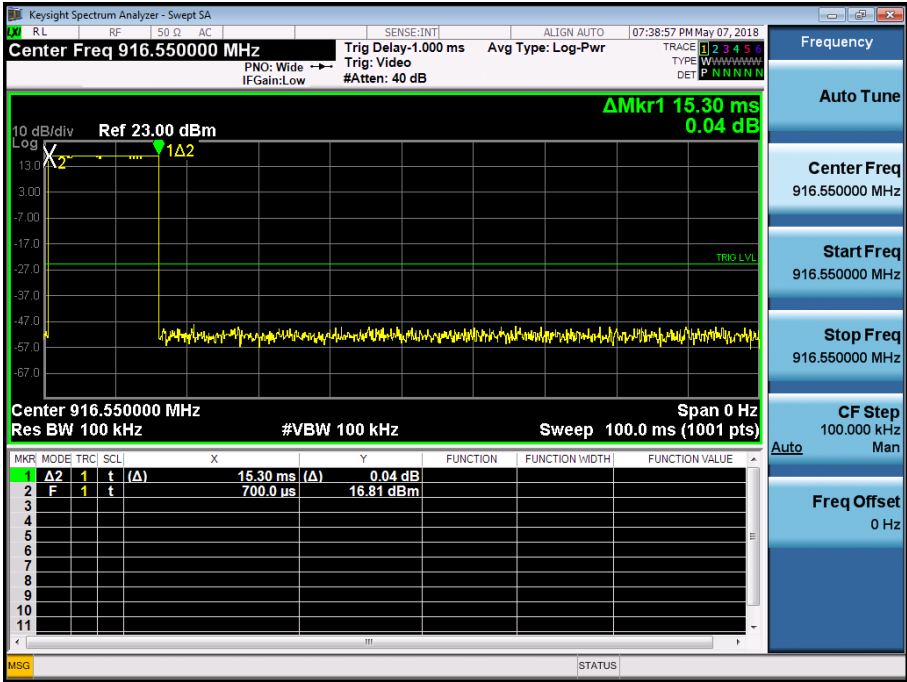
Channel 01



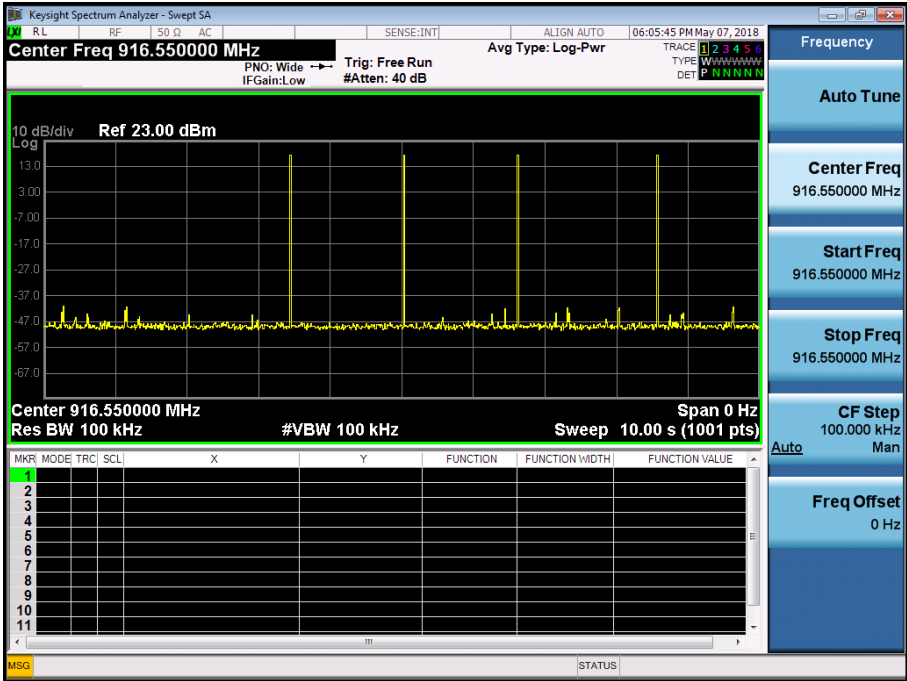
Channel 01



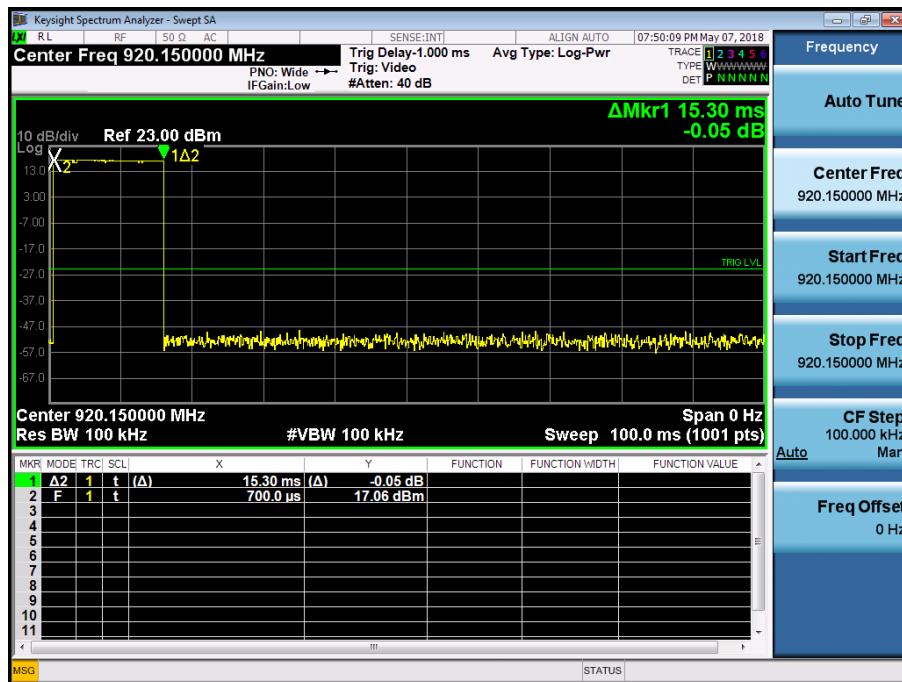
Channel 26



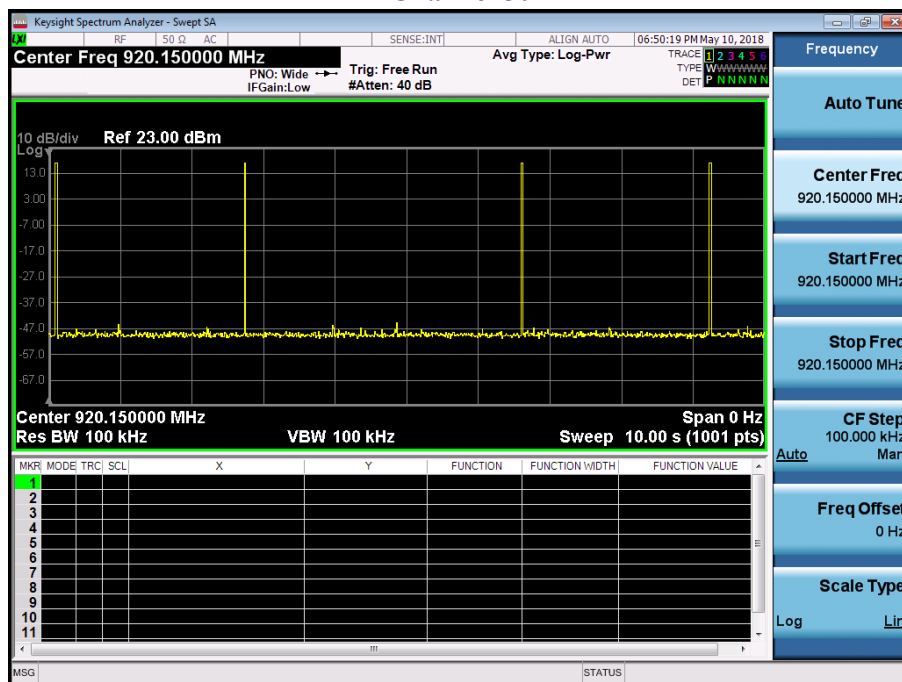
Channel 26



Channel 50



Channel 50



11. EMI Reduction Method During Compliance Testing

No modification was made during testing.