

FCC

RF

TEST REPORT

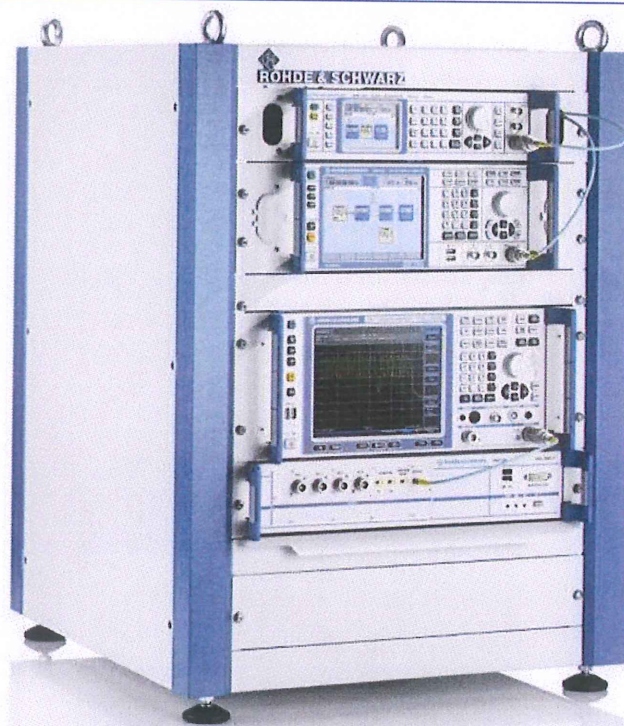
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
10 INCH TFT Console

ISSUED TO
Health In Motion LLC

255 Airport Circle, Suite 101 Corona, CA 92880, US



Prepared by:

Tu Lang

(Engineer)

Date

Jun 15, 2019

Approved by:

Wei Yanquan

(Chief Engineer)

Date

Jul. 15, 2019

Report No.: BL-HK1940235-604

EUT Name: 10 INCH TFT Console

Model Name: CZ001B

Brand Name: INSPIRE FITNESS

Test Standard: 47 CFR Part 15 Subpart E

FCC ID: 2ATO8-INSPIRE

Test Conclusion: Pass

Test Date: Apr. 19, 2019 ~ May 23, 2019

Date of Issue: Jul. 15, 2019

NOTE: This test report of test results only related to testing samples, which can be duplicated completely for the legal use with the approval of the applicant; it shall not be reproduced except in full, without the written approval of Shenzhen BALUN Technology Co., Ltd. Any objections should be raised within thirty days from the date of issue. To validate the report, please contact us.

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jun. 17, 2019</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jul. 15, 2019</u>	<u>Updated the EUT Name and Product Type</u>

TABLE OF CONTENTS

1	ADMINISTRATIVE DATA (GENERAL INFORMATION)	4
1.1	Identification of the Testing Laboratory	4
1.2	Identification of the Responsible Testing Location	4
1.3	Laboratory Condition	4
1.4	Announce	4
2	PRODUCT INFORMATION	5
2.1	Applicant	5
2.2	Manufacturer	5
2.3	Factory	5
2.4	General Description for Equipment under Test (EUT)	5
2.5	Technical Information	6
2.6	Additional Instructions	7
2.7	Channel List	9
3	SUMMARY OF TEST RESULTS	11
3.1	Test Standards	11
3.2	Verdict	11
4	GENERAL TEST CONFIGURATIONS	12
4.1	Test Environments	12
4.2	Test Equipment List	12
4.3	Measurement Uncertainty	13
4.4	Description of Test Setup	14
5	TEST ITEMS	17
5.1	RF Output Power	17
5.2	Emission Bandwidth and 6 dB Bandwidth	18
5.3	Power Spectral density (PSD)	19
5.4	Conducted Emission	20

5.5	Radiated Spurious Emissions and Band Edge (Restricted-band).....	21
5.6	Frequency Stability.....	26
ANNEX A	TEST RESULT	27
A.1	RF Output Power	27
A.2	Emission Bandwidth & 99% Bandwidth	28
A.3	6 dB Bandwidth	29
A.4	Power Spectral Density	30
A.5	Conducted Emissions	31
A.6	Radiated Spurious Emissions and Band Edge (Restricted-band).....	33
A.7	Frequency Stability.....	70
ANNEX B	TEST SETUP PHOTOS	72
ANNEX C	EUT EXTERNAL PHOTOS	72
ANNEX D	EUT INTERNAL PHOTOS	72

1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v4.3.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	Health In Motion LLC
Address	255 Airport Circle, Suite 101 Corona, CA 92880, US

2.2 Manufacturer

Manufacturer	N/A
Address	N/A

2.3 Factory

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	10 INCH TFT Console
Model Name Under Test	CZ001B
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	01
Software Version	01
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	Bluetooth 4.2 (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac
-----------------------------------	---

The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	Band I: 5150 MHz to 5250 MHz, Band IV: 5725 MHz to 5850 MHz
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Product Type	Indoor for IC standard Mobile and portable for FCC standard
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36 / 24 / 18/12 / 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	Band I: 16.62 dBm Band IV: 16.47 dBm
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	3 dBi
About the Product	The equipment is 10" TFT console, intended for used with information technology equipment.

2.6 Additional Instructions

EUT Software Settings:

Mode	☒ Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
------	--

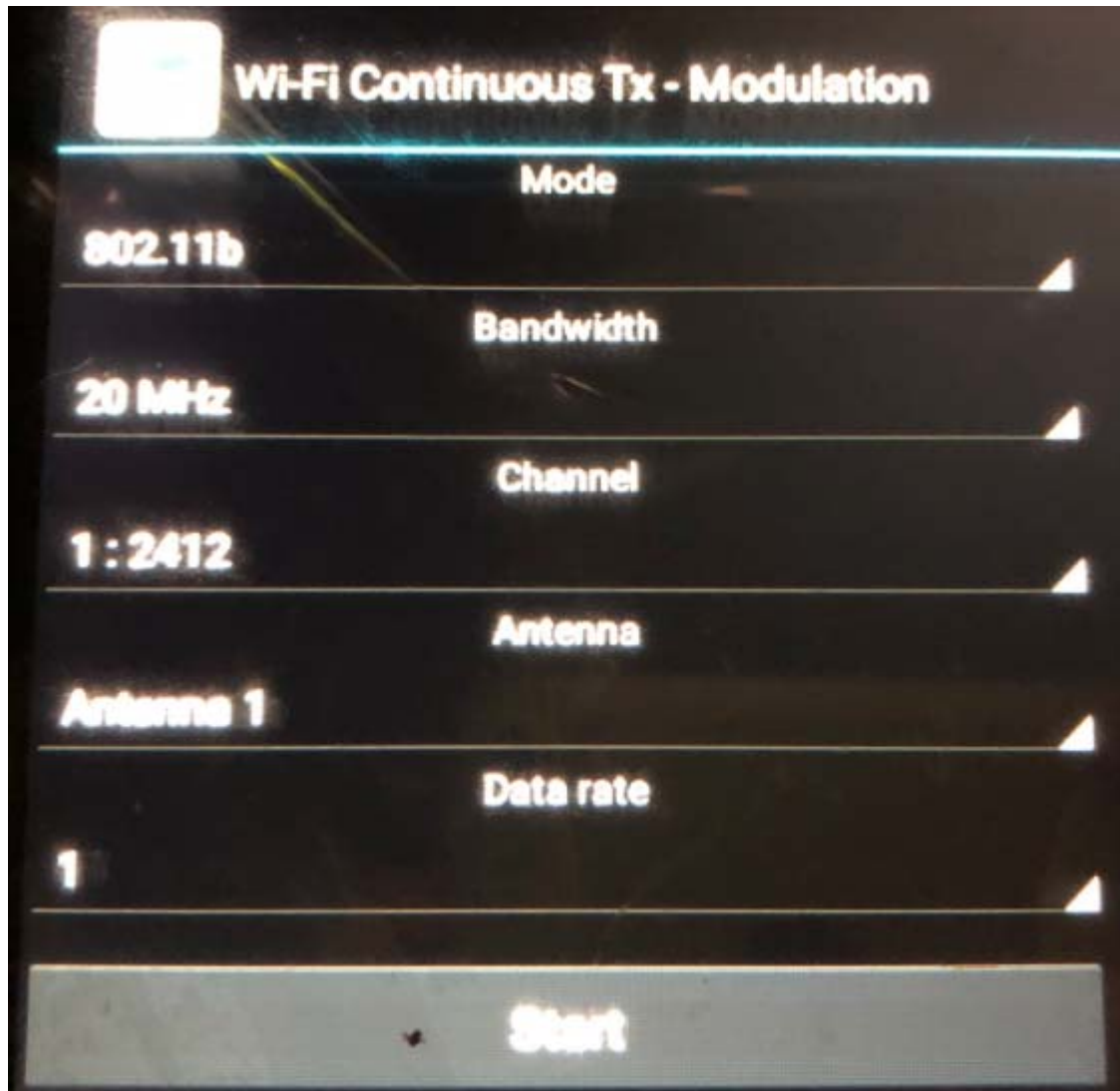
During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test Software Version	Ampak RFTTestTool5.6
-----------------------	----------------------

Band I (5150 - 5250 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH36	5180	TX LEVEL is built-in set parameters and cannot be changed and selected.
11a	CH44	5220	
11a	CH48	5240	
11n (HT20)	CH36	5180	
11n (HT20)	CH44	5220	
11n (HT20)	CH48	5240	
11n (HT40)	CH38	5190	
11n (HT40)	CH46	5230	
11ac (VHT20)	CH36	5180	
11ac (VHT20)	CH44	5220	
11ac (VHT20)	CH48	5240	
11ac (VHT40)	CH38	5190	
11ac (VHT40)	CH46	5230	
11ac (VHT80)	CH42	5210	

Band IV (5725 - 5850 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH149	5745	TX LEVEL is built-in set parameters and cannot be changed and selected.
11a	CH157	5785	
11a	CH165	5825	
11n (HT20)	CH149	5745	
11n (HT20)	CH157	5785	
11n (HT20)	CH165	5825	
11n (HT40)	CH151	5755	
11n (HT40)	CH159	5795	
11ac (VHT20)	CH149	5745	
11ac (VHT20)	CH157	5785	
11ac (VHT20)	CH165	5825	
11ac (VHT40)	CH151	5755	
11ac (VHT40)	CH159	5795	
11ac (VHT80)	CH155	5775	

Run Software



2.7 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	155	5775
44	5220	151	5755		
48	5240	159	5795		
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

Note: Until further notice, devices subject to this section shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of weather radars operating in this band.

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n(HT40)/ac(VHT40)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

For 802.11ac(VHT80)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Low	5210	155	Low	5775

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	Band I	Band IV
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	MCS0		42	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	MCS0		42	155
6 dB bandwidth	11a	6	BPSK	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	165/157/149
	11n(40 MHz)	13.5		N/A	159/151
	11ac(20 MHz)	6.5		N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	159/151
	11ac(80 MHz)	MCS0		N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	MCS0		42	155
Conducted Spurious Emission and Band Edge (Authorized-band)	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	MCS0		42	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	MCS0		42	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/36	165/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	MCS0		42	155
Frequency Stability	Unmodulated	N/A	N/A	36	149

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v01r04	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.6	Pass
8	Frequency Stability	15.407(g)	ANNEX A.7	Pass
9	Receiver Spurious Emissions	--	--	N/A ^{Note2}

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note ²: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
	LT (Low Temperature)	-20°C
	HT (High Temperature)	+40°C
Working Voltage of the EUT	NV (Normal Voltage)	12 V
	LV (Low Voltage)	11.4 V
	HV (High Voltage)	12.6 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2018.06.15	2019.06.14
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2018.06.15	2019.06.14
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2018.11.07	2019.11.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2018.06.13	2019.06.12
LISN	SCHWARZBECK	NSLK 8127	8127-687	2018.06.13	2019.06.12
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2018.06.15	2019.06.14
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2018.06.15	2019.06.14
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2018.06.14	2019.06.13
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2018.06.26	2019.06.25
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.11.09	2019.11.08
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2017.07.22	2019.07.21
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2018.07.11	2020.07.10
Test Antenna-Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2018.06.21	2019.06.20
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2019.01.05	2021.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2020.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2017.08.08	2019.08.07
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2018.06.15	2019.06.14
Power Amplifier	OPHIR RF	5225F	1037	2019.02.28	2020.02.27

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Power Amplifier	OPHIR RF	5273F	1016	2019.02.28	2020.02.27
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Feld Strength Meter	Narda	EP601	511WX51129	2018.05.21	2019.05.20
Mouth Simulator	B&K	4227	2423931	2018.11.15	2019.11.14
Sound Calibrator	B&K	4231	2430337	2018.11.15	2019.11.14
Sound Level Meter	B&K	NL-20	00844023	2018.11.15	2019.11.14
Ear Simulator	B&K	4185	2409449	2018.11.15	2019.11.14
Ear Simulator	B&K	4195	2418189	2018.11.15	2019.11.14
Audio analyzer	B&K	UPL 16	100129	2018.11.15	2019.11.14

4.3 Measurement Uncertainty

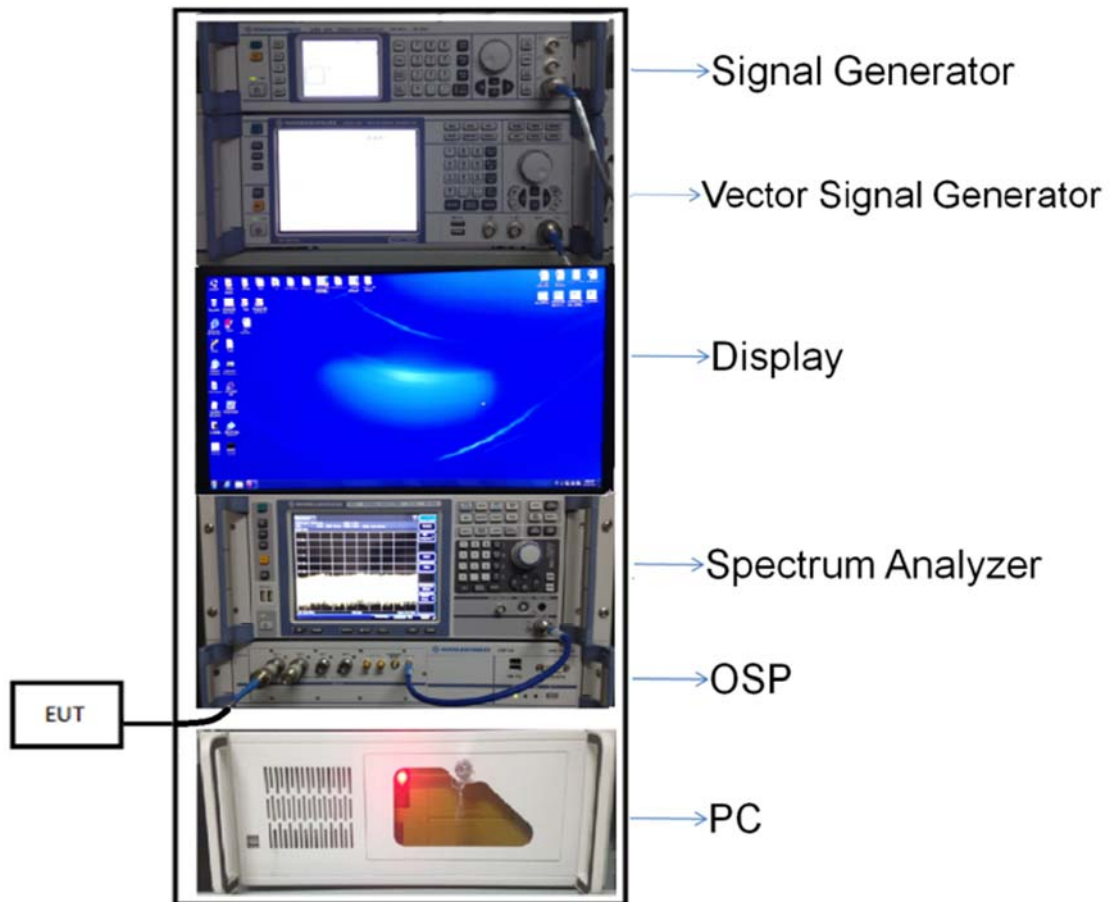
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%

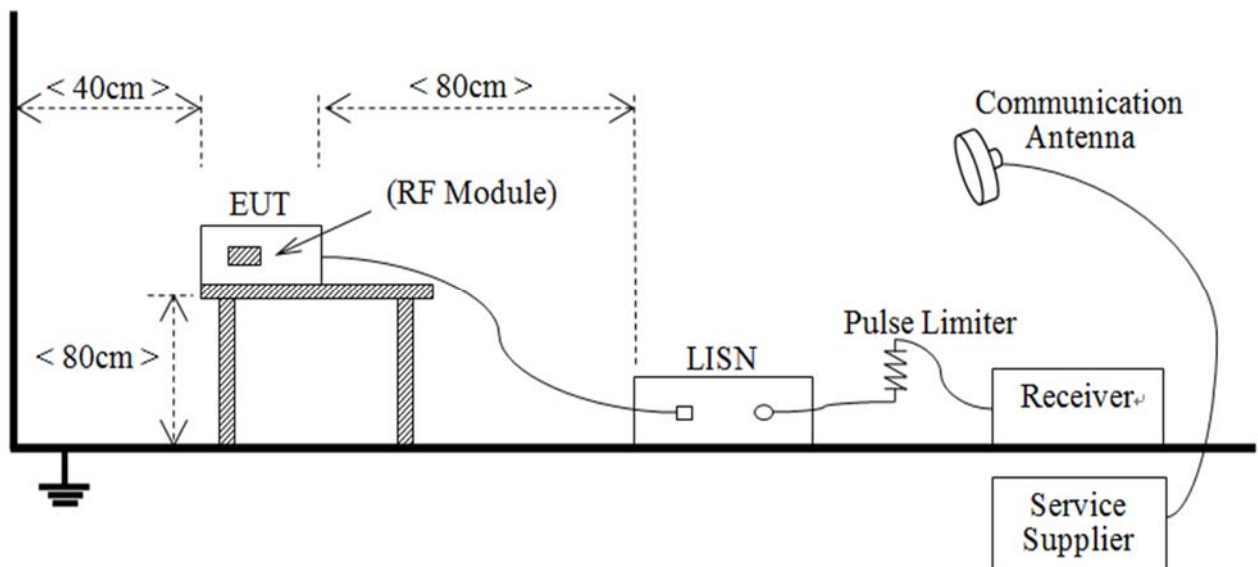
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



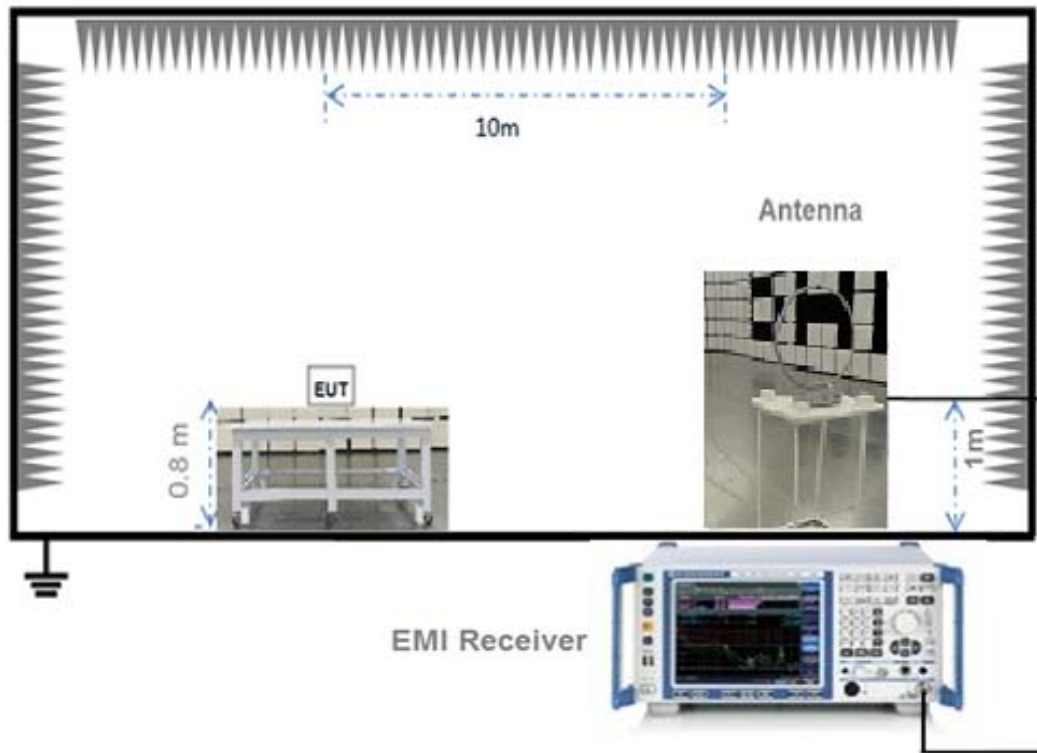
(Diagram 1)

4.4.2 For AC Power Supply Port Test



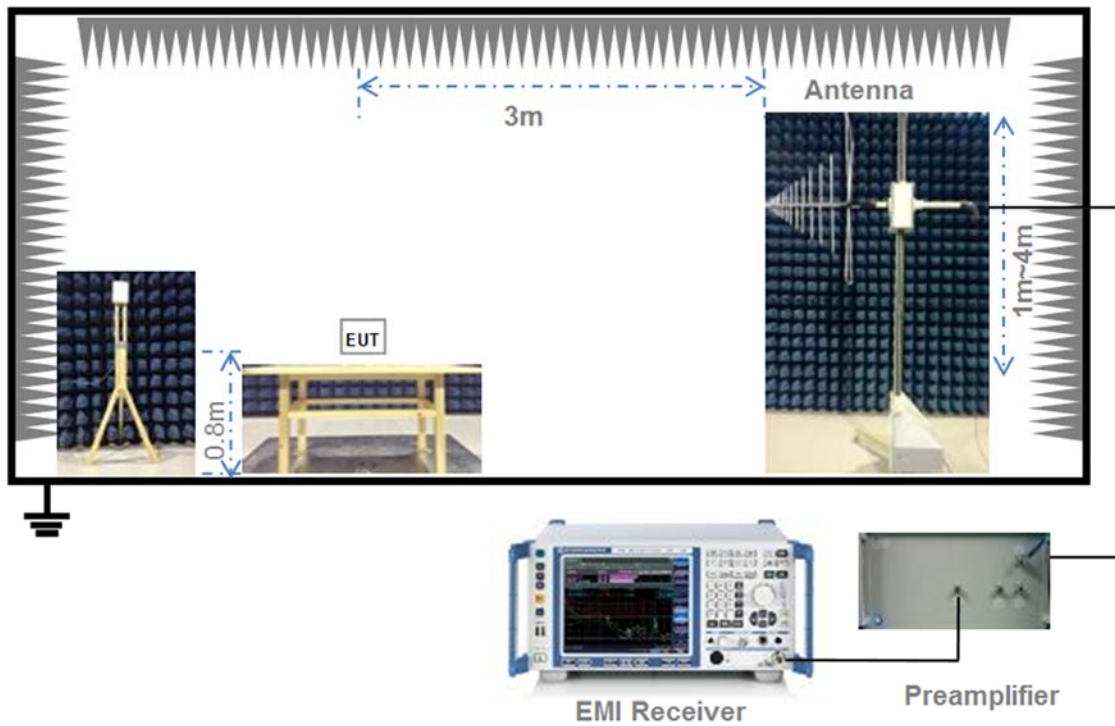
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



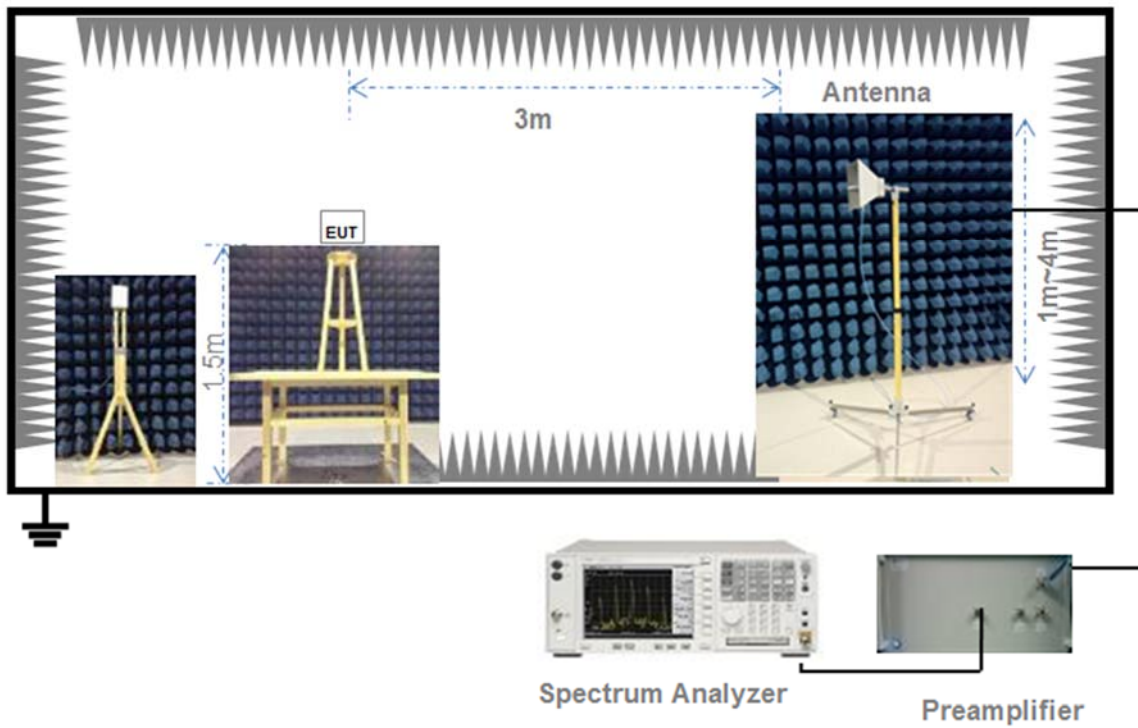
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



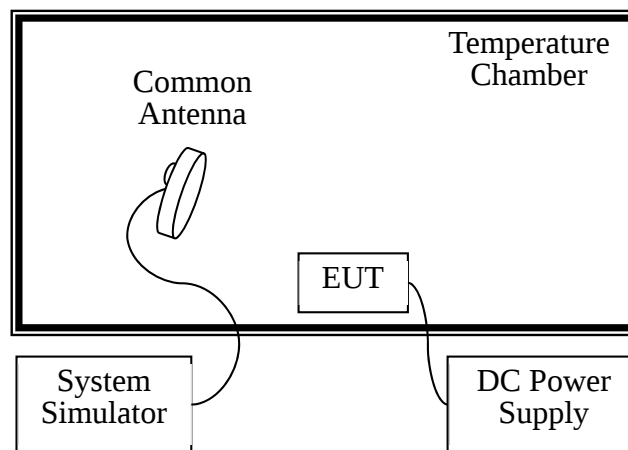
(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.4.6 For Frequency Stability Test



(Diagram 6)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 26 dB emissions bandwidth in MHz.	

RSS-247, 6.2

The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 99% emissions bandwidth in MHz.	

The maximum e.i.r.p. shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	200 mW or 10 dBm + 10log B, whichever is less.
5250-5350	1W or 17 dBm + 10log B, whichever is less.
5470-5725	1W or 17 dBm + 10log B, whichever is less.
5725-5850	N/A
Note: Where "B" is the 99% emissions bandwidth in MHz.	

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a), RSS-247, 6.2

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2.2 Test Setup

The test setup photo please refer to 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq 3 \times$ RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW $\geq 3 \times$ RBW, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.
2. Detector = Peak. Trace mode = Max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	11 dBm/MHz
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

RSS-247, 6.2

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

The e.i.r.p. spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	10 dBm/MHz
5250-5350	N/A
5470-5725	N/A
5725-5850	N/A

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

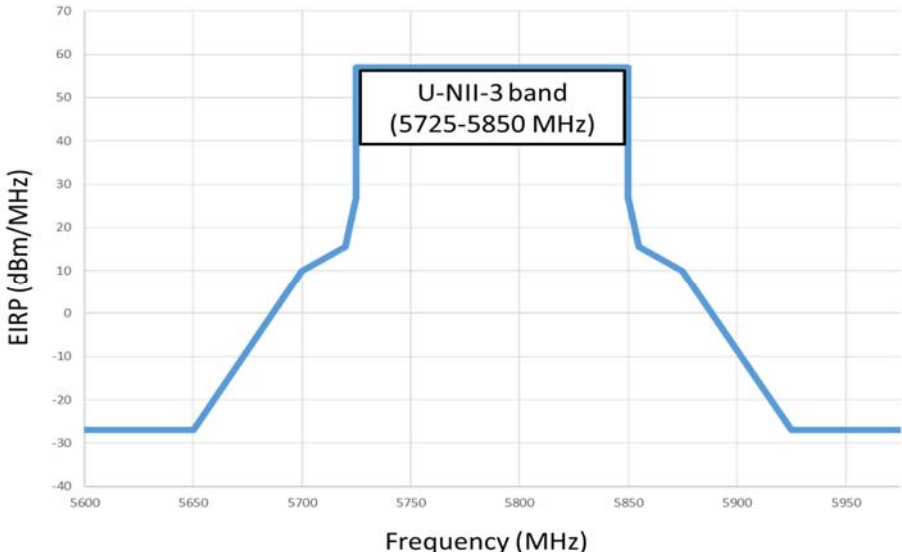
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note¹: The Limit for radiated test was performed according to FCC Part 15C

Note²: The tighter limit applies at the band edge.

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5150 - 5250	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5250 - 5350	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5470 - 5725	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. 

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength.

5.5.2 Test Setup

The section 4.4.3-4.4.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

- 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
- 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

5.6 Frequency Stability

5.6.1 Limit

FCC §15.407(g)

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

5.6.2 Test Setup

The section 4.4.6 (Diagram 6) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT is installed in an environment test chamber with external power source.

Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.

A sufficient stabilization period at each temperatures is used prior to each frequency measurement.

When temperature is stabled, measure the frequency stability.

The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage.

Change setting of chamber and external power source to complete all conditions.

5.6.4 Test Result

Please refer to ANNEX A.7.

ANNEX A TEST RESULT

A.1 RF Output Power

Note 1: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Data

Conducted Power

Band I (5150 - 5250 MHz)						
Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	5180	14.38	27.42	250	Pass
11a	CH44	5220	15.67	36.90	250	Pass
11a	CH48	5240	16.62	45.92	250	Pass
11n (HT20)	CH36	5180	14.15	26.00	250	Pass
11n (HT20)	CH44	5220	15.36	34.36	250	Pass
11n (HT20)	CH48	5240	16.44	44.06	250	Pass
11n (HT40)	CH38	5190	14.09	25.64	250	Pass
11n (HT40)	CH46	5230	15.78	37.84	250	Pass
11ac (VHT20)	CH36	5180	14.14	25.94	250	Pass
11ac (VHT20)	CH44	5220	15.43	34.91	250	Pass
11ac (VHT20)	CH48	5240	16.41	43.75	250	Pass
11ac (VHT40)	CH38	5190	14.10	25.70	250	Pass
11ac (VHT40)	CH46	5230	15.63	36.56	250	Pass
11ac (VHT80)	CH42	5210	14.04	25.35	250	Pass

Band IV (5725 - 5850 MHz)						
Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (W)	Verdict
11a	CH149	5745	16.47	44.36	1.00	Pass
11a	CH157	5785	16.30	42.66	1.00	Pass
11a	CH165	5825	16.04	40.18	1.00	Pass
11n (HT20)	CH149	5745	16.02	39.99	1.00	Pass
11n (HT20)	CH157	5785	15.89	38.82	1.00	Pass
11n (HT20)	CH165	5825	15.59	36.22	1.00	Pass
11n (HT40)	CH151	5755	16.00	39.81	1.00	Pass
11n (HT40)	CH159	5795	15.44	34.99	1.00	Pass
11ac (VHT20)	CH149	5745	16.06	40.36	1.00	Pass
11ac (VHT20)	CH157	5785	15.86	38.55	1.00	Pass
11ac (VHT20)	CH165	5825	15.57	36.06	1.00	Pass
11ac (VHT40)	CH151	5755	16.14	41.11	1.00	Pass
11ac (VHT40)	CH159	5795	15.51	35.56	1.00	Pass
11ac (VHT80)	CH155	5775	14.88	30.76	1.00	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-HK1940235-604 Data Part 1.pdf”.

Test Data

Band I (5150 - 5250 MHz)				
Mode	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	5180	24.36	17.37
11a	CH44	5220	23.76	17.08
11a	CH48	5240	23.32	16.96
11n (HT20)	CH36	5180	24.04	18.12
11n (HT20)	CH44	5220	23.00	18.06
11n (HT20)	CH48	5240	23.40	18.00
11n (HT40)	CH38	5190	58.50	37.16
11n (HT40)	CH46	5230	48.00	36.82
11ac (VHT20)	CH36	5180	23.64	18.12
11ac (VHT20)	CH44	5220	23.12	18.06
11ac (VHT20)	CH48	5240	22.52	18.00
11ac (VHT40)	CH38	5190	54.50	37.05
11ac (VHT40)	CH46	5230	47.00	36.82
11ac (VHT80)	CH42	5210	112.80	76.87

Band IV (5725 - 5850 MHz)				
Mode	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	5745	21.60	16.85
11a	CH157	5785	21.64	16.90
11a	CH165	5825	22.12	16.96
11n (HT20)	CH149	5745	21.72	17.89
11n (HT20)	CH157	5785	21.80	17.95
11n (HT20)	CH165	5825	21.96	17.95
11n (HT40)	CH151	5755	43.40	36.58
11n (HT40)	CH159	5795	43.90	36.70
11ac (VHT20)	CH149	5745	21.76	17.95
11ac (VHT20)	CH157	5785	21.64	17.95
11ac (VHT20)	CH165	5825	21.76	18.00
11ac (VHT40)	CH151	5755	43.20	36.58
11ac (VHT40)	CH159	5795	46.00	36.70
11ac (VHT80)	CH155	5775	85.00	75.95

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-HK1940235-604 Data Part 2.pdf”.

Test Data

Band I (5150 - 5250 MHz)					
Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Verdict
11a	CH36	5180	16.52	0.5	Pass
11a	CH44	5220	16.47	0.5	Pass
11a	CH48	5240	16.47	0.5	Pass
11n (HT20)	CH36	5180	17.47	0.5	Pass
11n (HT20)	CH44	5220	17.67	0.5	Pass
11n (HT20)	CH48	5240	17.67	0.5	Pass
11n (HT40)	CH38	5190	36.52	0.5	Pass
11n (HT40)	CH46	5230	34.57	0.5	Pass
11ac (VHT20)	CH36	5180	17.72	0.5	Pass
11ac (VHT20)	CH44	5220	17.67	0.5	Pass
11ac (VHT20)	CH48	5240	14.02	0.5	Pass
11ac (VHT40)	CH38	5190	35.57	0.5	Pass
11ac (VHT40)	CH46	5230	35.77	0.5	Pass
11ac (VHT80)	CH42	5210	75.27	0.5	Pass

Band IV (5725 - 5850 MHz)					
Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Verdict
11a	CH149	5745	16.42	0.5	Pass
11a	CH157	5785	16.42	0.5	Pass
11a	CH165	5825	16.47	0.5	Pass
11n (HT20)	CH149	5745	17.72	0.5	Pass
11n (HT20)	CH157	5785	17.67	0.5	Pass
11n (HT20)	CH165	5825	17.72	0.5	Pass
11n (HT40)	CH151	5755	36.12	0.5	Pass
11n (HT40)	CH159	5795	33.62	0.5	Pass
11ac (VHT20)	CH149	5745	17.42	0.5	Pass
11ac (VHT20)	CH157	5785	17.67	0.5	Pass
11ac (VHT20)	CH165	5825	17.67	0.5	Pass
11ac (VHT40)	CH151	5755	36.37	0.5	Pass
11ac (VHT40)	CH159	5795	36.47	0.5	Pass
11ac (VHT80)	CH155	5775	73.97	0.5	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document "Annex No.: BL-HK1940235-604 Data Part 3.pdf".

Test Data

Band I (5150 - 5250 MHz)					
Mode	Channel	Frequency (MHz)	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	5180	3.98	11	Pass
11a	CH44	5220	5.07	11	Pass
11a	CH48	5240	5.70	11	Pass
11n (HT20)	CH36	5180	3.63	11	Pass
11n (HT20)	CH44	5220	4.39	11	Pass
11n (HT20)	CH48	5240	5.48	11	Pass
11n (HT40)	CH38	5190	-0.75	11	Pass
11n (HT40)	CH46	5230	0.35	11	Pass
11ac (VHT20)	CH36	5180	3.28	11	Pass
11ac (VHT20)	CH44	5220	4.44	11	Pass
11ac (VHT20)	CH48	5240	5.50	11	Pass
11ac (VHT40)	CH38	5190	-0.34	11	Pass
11ac (VHT40)	CH46	5230	1.54	11	Pass
11ac (VHT80)	CH42	5210	-4.88	11	Pass

Band IV (5725 - 5850 MHz)					
Mode	Channel	Frequency (MHz)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	5745	3.28	30	Pass
11a	CH157	5785	3.09	30	Pass
11a	CH165	5825	2.77	30	Pass
11n (HT20)	CH149	5745	2.77	30	Pass
11n (HT20)	CH157	5785	2.37	30	Pass
11n (HT20)	CH165	5825	2.03	30	Pass
11n (HT40)	CH151	5755	-0.75	30	Pass
11n (HT40)	CH159	5795	-1.02	30	Pass
11ac (VHT20)	CH149	5745	2.66	30	Pass
11ac (VHT20)	CH157	5785	2.75	30	Pass
11ac (VHT20)	CH165	5825	2.06	30	Pass
11ac (VHT40)	CH151	5755	-0.56	30	Pass
11ac (VHT40)	CH159	5795	-1.07	30	Pass
11ac (VHT80)	CH155	5775	-5.77	30	Pass

A.5 Conducted Emissions

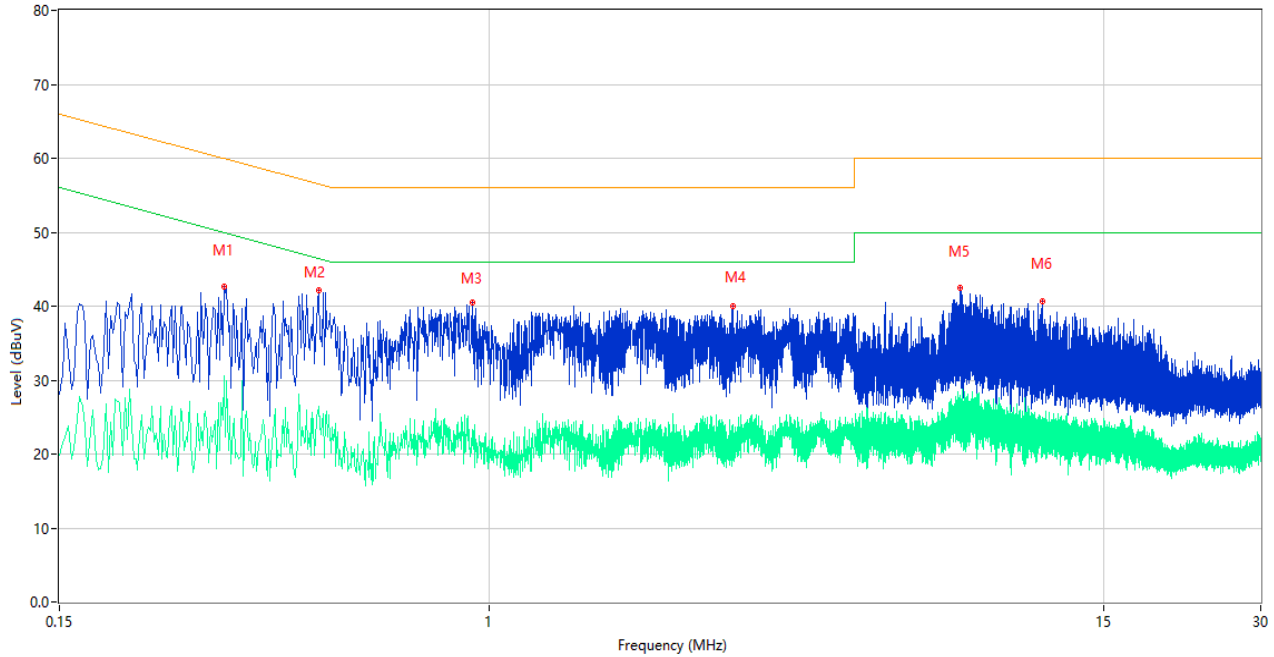
Note¹: The EUT is working in the Normal link mode.

Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test Data and Plots

PHASE L

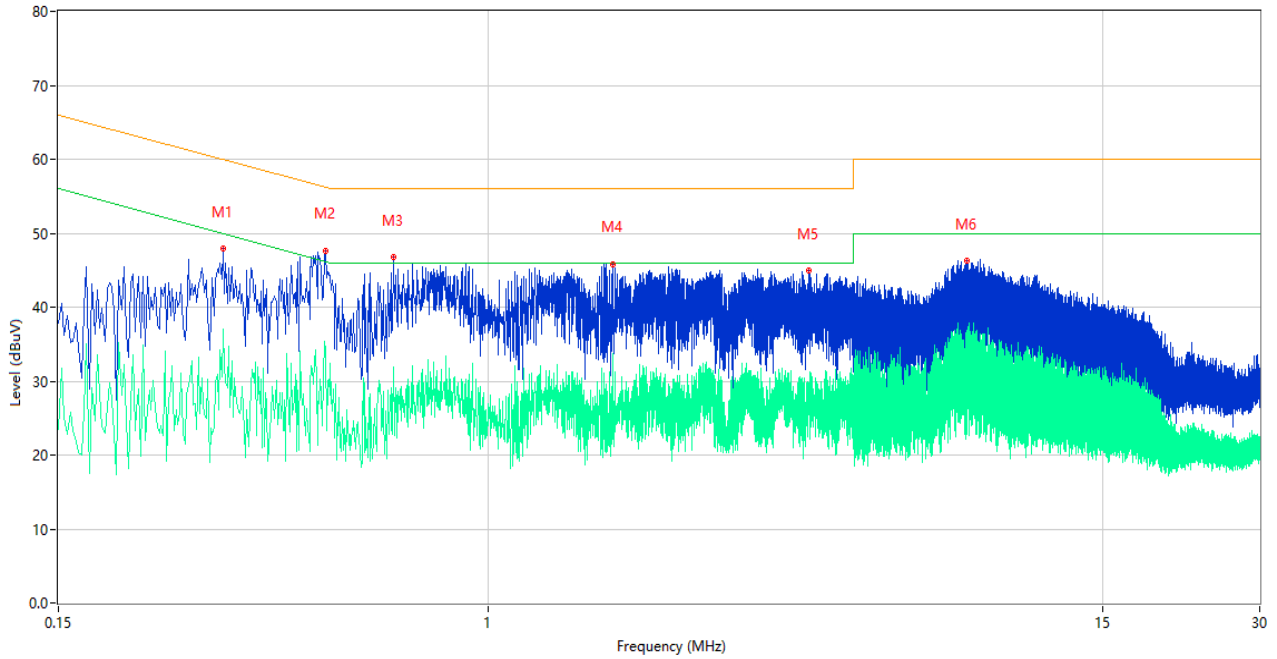
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.310	42.59	10.33	59.97	-17.38	Peak	L	Pass
1**	0.310	30.61	10.33	49.97	-19.36	AV	L	Pass
2	0.470	42.22	10.30	56.51	-14.29	Peak	L	Pass
2**	0.470	25.07	10.30	46.51	-21.44	AV	L	Pass
3	0.926	40.51	10.24	56.00	-15.49	Peak	L	Pass
3**	0.926	23.30	10.24	46.00	-22.70	AV	L	Pass
4	2.922	40.08	10.28	56.00	-15.92	Peak	L	Pass
4**	2.922	24.01	10.28	46.00	-21.99	AV	L	Pass
5	7.962	42.48	10.35	60.00	-17.52	Peak	L	Pass
5**	7.962	26.25	10.35	50.00	-23.75	AV	L	Pass
6	11.458	40.71	10.38	60.00	-19.29	Peak	L	Pass
6**	11.458	25.00	10.38	50.00	-25.00	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.310	47.97	10.33	59.97	-12.00	Peak	N	Pass
1**	0.310	36.99	10.33	49.97	-12.98	AV	N	Pass
2	0.488	47.68	10.29	56.20	-8.52	Peak	N	Pass
2**	0.488	34.68	10.29	46.20	-11.52	AV	N	Pass
3	0.658	46.73	10.28	56.00	-9.27	Peak	N	Pass
3**	0.658	31.82	10.28	46.00	-14.18	AV	N	Pass
4	1.734	45.85	10.26	56.00	-10.15	Peak	N	Pass
4**	1.734	33.79	10.26	46.00	-12.21	AV	N	Pass
5	4.102	44.89	10.30	56.00	-11.11	Peak	N	Pass
5**	4.102	28.67	10.30	46.00	-17.33	AV	N	Pass
6	8.250	46.36	10.34	60.00	-13.64	Peak	N	Pass
6**	8.250	36.78	10.34	50.00	-13.22	AV	N	Pass

A.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

Test Data

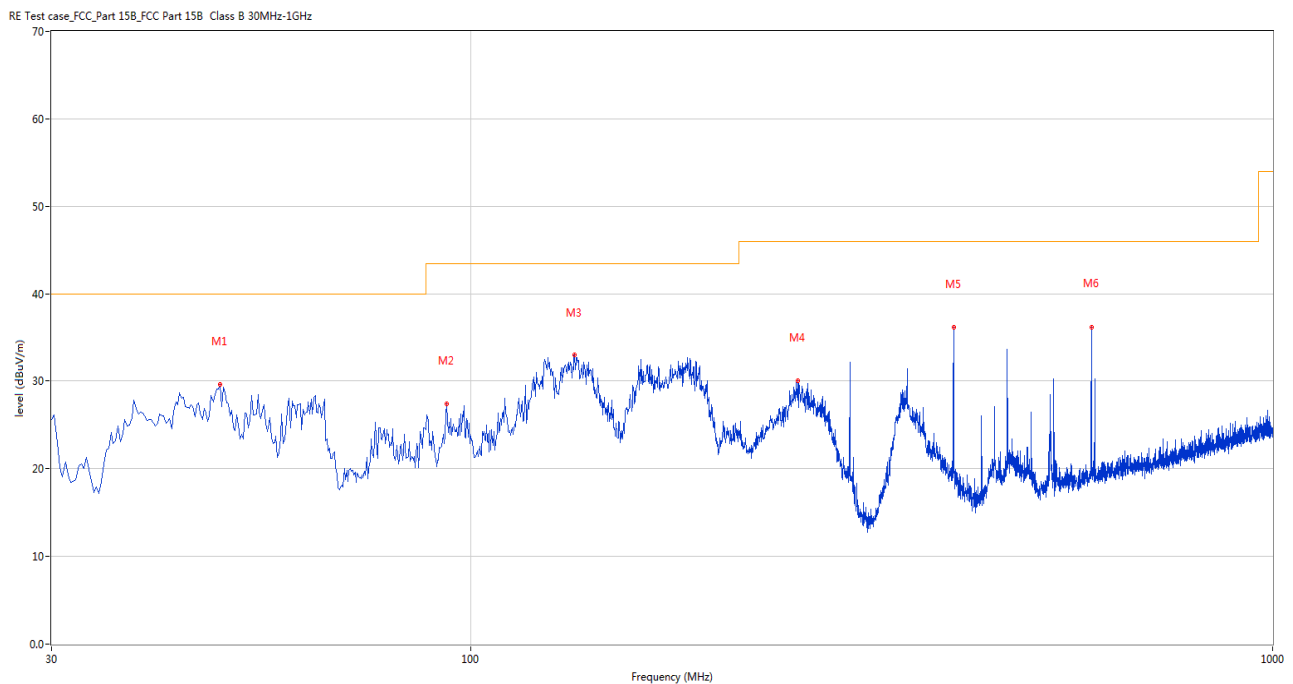
Note 1: The symbol of “--” in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz.

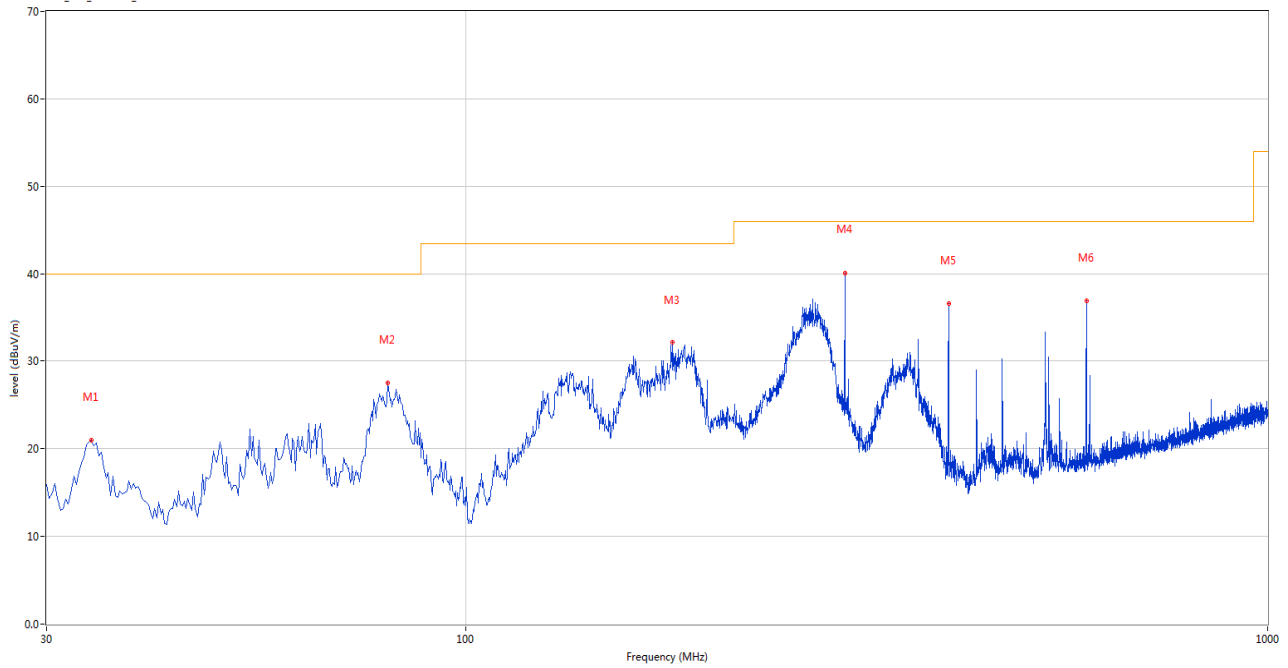
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	48.672	29.63	-23.30	40.0	-10.37	Peak	212.30	200	Vertical	Pass
2	93.293	27.34	-25.92	43.5	-16.16	Peak	192.10	100	Vertical	Pass
3	134.760	32.91	-27.88	43.5	-10.59	Peak	305.10	100	Vertical	Pass
4	255.525	30.03	-22.97	46.0	-15.97	Peak	212.30	200	Vertical	Pass
5	400.055	36.19	-19.59	46.0	-9.81	Peak	348.40	100	Vertical	Pass
6	594.055	36.25	-15.00	46.0	-9.75	Peak	102.30	100	Vertical	Pass

30 MHz to 1 GHz, ANT H

RE Test case_FCC_Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	34.123	20.91	-26.31	40.0	-19.09	Peak	0.00	200	Horizontal	Pass
2	79.955	27.46	-28.82	40.0	-12.54	Peak	99.60	200	Horizontal	Pass
3	180.835	32.06	-26.46	43.5	-11.44	Peak	116.10	200	Horizontal	Pass
4	296.992	40.12	-22.17	46.0	-5.88	Peak	295.80	100	Horizontal	Pass
5	400.055	36.61	-19.59	46.0	-9.39	Peak	256.80	100	Horizontal	Pass
6	594.055	36.92	-15.00	46.0	-9.08	Peak	230.20	100	Horizontal	Pass

Note: The spurious from 18G-40G is noise only, do not show on the report.

1 GHz to 18 GHz, Band I 11a ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1491.500	28.76	-14.15	54.0	-25.24	AV	182.00	100	Vertical	Pass
1	1491.500	39.33	-14.15	74.0	-34.67	Peak	182.00	100	Vertical	Pass
2**	2733.500	36.43	-6.46	54.0	-17.57	AV	58.00	100	Vertical	Pass
2	2733.500	48.45	-6.46	74.0	-25.55	Peak	58.00	100	Vertical	Pass
3**	4116.000	42.82	0.73	54.0	-11.18	AV	134.00	100	Vertical	Pass
3	4116.000	52.82	0.73	74.0	-21.18	Peak	134.00	100	Vertical	Pass
4**	5177.000	65.78	8.34	--	65.78	AV	176.00	100	Vertical	N/A
4	5177.000	73.25	8.34	--	-102.75	Peak	176.00	100	Vertical	N/A
5**	7431.250	37.22	-2.47	54.0	-16.78	AV	3.00	100	Vertical	Pass
5	7431.250	47.87	-2.47	74.0	-26.13	Peak	3.00	100	Vertical	Pass
6**	12282.812	39.90	2.09	54.0	-14.10	AV	6.00	100	Vertical	Pass
6	12282.812	50.20	2.09	74.0	-23.80	Peak	6.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11a ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1385.500	28.43	-14.10	54.0	-25.57	AV	168.00	100	Horizontal	Pass
1	1385.500	38.95	-14.10	74.0	-35.05	Peak	168.00	100	Horizontal	Pass
2**	2770.000	37.14	-5.97	54.0	-16.86	AV	360.00	100	Horizontal	Pass
2	2770.000	47.83	-5.97	74.0	-26.17	Peak	360.00	100	Horizontal	Pass
3**	4155.000	42.66	1.71	54.0	-11.34	AV	323.00	100	Horizontal	Pass
3	4155.000	53.55	1.71	74.0	-20.45	Peak	323.00	100	Horizontal	Pass
4**	5176.000	64.80	8.33	--	64.80	AV	178.00	100	Horizontal	N/A
4	5176.000	73.10	8.33	--	-104.90	Peak	178.00	100	Horizontal	N/A
5**	7516.063	37.29	-1.97	54.0	-16.71	AV	9.00	100	Horizontal	Pass
5	7516.063	47.55	-1.97	74.0	-26.45	Peak	9.00	100	Horizontal	Pass
6**	11735.125	38.80	1.24	54.0	-15.20	AV	9.00	100	Horizontal	Pass
6	11735.125	50.86	1.24	74.0	-23.14	Peak	9.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11a ANT V Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1354.500	28.24	-14.16	54.0	-25.76	AV	311.00	100	Vertical	Pass
1	1354.500	39.18	-14.16	74.0	-34.82	Peak	311.00	100	Vertical	Pass
2**	2810.000	36.92	-5.68	54.0	-17.08	AV	174.00	100	Vertical	Pass
2	2810.000	47.25	-5.68	74.0	-26.75	Peak	174.00	100	Vertical	Pass
3**	4223.000	43.55	2.00	54.0	-10.45	AV	355.00	100	Vertical	Pass
3	4223.000	53.74	2.00	74.0	-20.26	Peak	355.00	100	Vertical	Pass
4**	5202.000	63.84	8.54	--	63.84	AV	150.00	100	Vertical	N/A
4	5202.000	71.41	8.54	--	-78.59	Peak	150.00	100	Vertical	N/A
5**	7514.625	37.28	-2.00	54.0	-16.72	AV	12.00	100	Vertical	Pass
5	7514.625	47.48	-2.00	74.0	-26.52	Peak	12.00	100	Vertical	Pass
6**	11980.937	40.03	1.12	54.0	-13.97	AV	13.00	100	Vertical	Pass
6	11980.937	50.11	1.12	74.0	-23.89	Peak	13.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11a ANT H Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1568.500	28.68	-14.04	54.0	-25.32	AV	360.00	100	Horizontal	Pass
1	1568.500	39.83	-14.04	74.0	-34.17	Peak	360.00	100	Horizontal	Pass
2**	2810.500	37.22	-5.61	54.0	-16.78	AV	320.00	100	Horizontal	Pass
2	2810.500	47.66	-5.61	74.0	-26.34	Peak	320.00	100	Horizontal	Pass
3**	4218.000	43.27	2.65	54.0	-10.73	AV	46.00	100	Horizontal	Pass
3	4218.000	53.38	2.65	74.0	-20.62	Peak	46.00	100	Horizontal	Pass
4**	5199.000	63.40	8.51	--	63.40	AV	134.00	100	Horizontal	N/A
4	5199.000	70.54	8.51	--	-63.46	Peak	134.00	100	Horizontal	N/A
5**	7537.625	37.79	-1.81	54.0	-16.21	AV	1.00	100	Horizontal	Pass
5	7537.625	47.60	-1.81	74.0	-26.40	Peak	1.00	100	Horizontal	Pass
6**	11587.063	38.89	0.14	54.0	-15.11	AV	7.00	100	Horizontal	Pass
6	11587.063	49.91	0.14	74.0	-24.09	Peak	7.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11a ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1517.500	28.52	-14.03	54.0	-25.48	AV	57.00	100	Vertical	Pass
1	1517.500	39.32	-14.03	74.0	-34.68	Peak	57.00	100	Vertical	Pass
2**	2845.000	37.24	-5.89	54.0	-16.76	AV	80.00	100	Vertical	Pass
2	2845.000	47.60	-5.89	74.0	-26.40	Peak	80.00	100	Vertical	Pass
3**	4215.000	42.97	2.56	54.0	-11.03	AV	201.00	100	Vertical	Pass
3	4215.000	53.34	2.56	74.0	-20.66	Peak	201.00	100	Vertical	Pass
4**	5248.000	63.00	8.65	--	63.00	AV	153.00	100	Vertical	N/A
4	5248.000	69.91	8.65	--	-83.09	Peak	153.00	100	Vertical	N/A
5**	7513.187	37.78	-2.23	54.0	-16.22	AV	360.00	100	Vertical	Pass
5	7513.187	48.30	-2.23	74.0	-25.70	Peak	360.00	100	Vertical	Pass
6**	12228.187	40.60	1.69	54.0	-13.40	AV	183.00	100	Vertical	Pass
6	12228.187	51.20	1.69	74.0	-22.80	Peak	183.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11a ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1346.000	29.43	-14.05	54.0	-24.57	AV	259.00	100	Horizontal	Pass
1	1346.000	39.54	-14.05	74.0	-34.46	Peak	259.00	100	Horizontal	Pass
2**	2813.000	36.66	-5.28	54.0	-17.34	AV	259.00	100	Horizontal	Pass
2	2813.000	47.27	-5.28	74.0	-26.73	Peak	259.00	100	Horizontal	Pass
3**	4154.000	42.90	1.60	54.0	-11.10	AV	65.00	100	Horizontal	Pass
3	4154.000	53.68	1.60	74.0	-20.32	Peak	65.00	100	Horizontal	Pass
4**	5242.000	63.98	8.61	--	63.98	AV	75.00	100	Horizontal	N/A
4	5242.000	71.42	8.61	--	-3.58	Peak	75.00	100	Horizontal	N/A
5**	7529.000	37.68	-1.88	54.0	-16.32	AV	6.00	100	Horizontal	Pass
5	7529.000	48.22	-1.88	74.0	-25.78	Peak	6.00	100	Horizontal	Pass
6**	11709.250	39.14	1.04	54.0	-14.86	AV	1.00	100	Horizontal	Pass
6	11709.250	50.23	1.04	74.0	-23.77	Peak	1.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11n20 ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1381.500	28.97	-14.01	54.0	-25.03	AV	73.00	100	Vertical	Pass
1	1381.500	39.06	-14.01	74.0	-34.94	Peak	73.00	100	Vertical	Pass
2**	2849.000	37.57	-5.70	54.0	-16.43	AV	253.00	100	Vertical	Pass
2	2849.000	47.10	-5.70	74.0	-26.90	Peak	253.00	100	Vertical	Pass
3**	4217.000	43.32	2.67	54.0	-10.68	AV	124.00	100	Vertical	Pass
3	4217.000	53.04	2.67	74.0	-20.96	Peak	124.00	100	Vertical	Pass
4**	5178.000	65.33	8.34	--	65.33	AV	181.00	100	Vertical	N/A
4	5178.000	71.94	8.34	--	-109.06	Peak	181.00	100	Vertical	N/A
5**	7537.625	36.94	-1.81	54.0	-17.06	AV	4.00	100	Vertical	Pass
5	7537.625	48.30	-1.81	74.0	-25.70	Peak	4.00	100	Vertical	Pass
6**	11568.375	39.15	-0.05	54.0	-14.85	AV	13.00	100	Vertical	Pass
6	11568.375	50.45	-0.05	74.0	-23.55	Peak	13.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11n20 ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1367.500	27.72	-14.17	54.0	-26.28	AV	165.00	100	Horizontal	Pass
1	1367.500	39.63	-14.17	74.0	-34.37	Peak	165.00	100	Horizontal	Pass
2**	2805.500	37.02	-6.10	54.0	-16.98	AV	244.00	100	Horizontal	Pass
2	2805.500	47.21	-6.10	74.0	-26.79	Peak	244.00	100	Horizontal	Pass
3**	4219.000	43.82	2.54	54.0	-10.18	AV	0.00	100	Horizontal	Pass
3	4219.000	53.25	2.54	74.0	-20.75	Peak	0.00	100	Horizontal	Pass
4**	5178.000	65.92	8.34	--	65.92	AV	173.00	100	Horizontal	N/A
4	5178.000	72.97	8.34	--	-100.03	Peak	173.00	100	Horizontal	N/A
5**	7517.500	37.51	-2.03	54.0	-16.49	AV	260.00	100	Horizontal	Pass
5	7517.500	48.62	-2.03	74.0	-25.38	Peak	260.00	100	Horizontal	Pass
6**	11690.563	39.11	0.57	54.0	-14.89	AV	271.00	100	Horizontal	Pass
6	11690.563	50.99	0.57	74.0	-23.01	Peak	271.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11n20 ANT V Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1490.500	29.15	-14.11	54.0	-24.85	AV	292.00	100	Vertical	Pass
1	1490.500	39.34	-14.11	74.0	-34.66	Peak	292.00	100	Vertical	Pass
2**	2773.500	36.95	-5.86	54.0	-17.05	AV	172.00	100	Vertical	Pass
2	2773.500	47.68	-5.86	74.0	-26.32	Peak	172.00	100	Vertical	Pass
3**	4159.000	43.63	1.98	54.0	-10.37	AV	334.00	100	Vertical	Pass
3	4159.000	53.92	1.98	74.0	-20.08	Peak	334.00	100	Vertical	Pass
4**	5202.000	63.18	8.54	--	63.18	AV	152.00	100	Vertical	N/A
4	5202.000	71.06	8.54	--	-80.94	Peak	152.00	100	Vertical	N/A
5**	7435.562	37.73	-2.50	54.0	-16.27	AV	3.00	100	Vertical	Pass
5	7435.562	47.55	-2.50	74.0	-26.45	Peak	3.00	100	Vertical	Pass
6**	11326.875	38.20	0.83	54.0	-15.80	AV	5.00	100	Vertical	Pass
6	11326.875	50.07	0.83	74.0	-23.93	Peak	5.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11n20 ANT H Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1346.000	29.82	-14.05	54.0	-24.18	AV	210.00	100	Horizontal	Pass
1	1346.000	38.99	-14.05	74.0	-35.01	Peak	210.00	100	Horizontal	Pass
2**	2807.000	37.70	-5.63	54.0	-16.30	AV	54.00	100	Horizontal	Pass
2	2807.000	47.65	-5.63	74.0	-26.35	Peak	54.00	100	Horizontal	Pass
3**	4109.000	42.64	1.01	54.0	-11.36	AV	218.00	100	Horizontal	Pass
3	4109.000	53.14	1.01	74.0	-20.86	Peak	218.00	100	Horizontal	Pass
4**	5198.000	63.19	8.50	--	63.19	AV	144.00	100	Horizontal	N/A
4	5198.000	70.91	8.50	--	-73.09	Peak	144.00	100	Horizontal	N/A
5**	8302.375	37.35	-0.86	54.0	-16.65	AV	15.00	100	Horizontal	Pass
5	8302.375	48.43	-0.86	74.0	-25.57	Peak	15.00	100	Horizontal	Pass
6**	11273.687	38.95	0.45	54.0	-15.05	AV	11.00	100	Horizontal	Pass
6	11273.687	49.87	0.45	74.0	-24.13	Peak	11.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11n20 ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1342.000	28.82	-14.12	54.0	-25.18	AV	188.00	100	Vertical	Pass
1	1342.000	39.98	-14.12	74.0	-34.02	Peak	188.00	100	Vertical	Pass
2**	2806.500	37.16	-5.79	54.0	-16.84	AV	214.00	100	Vertical	Pass
2	2806.500	46.78	-5.79	74.0	-27.22	Peak	214.00	100	Vertical	Pass
3**	4218.000	43.35	2.65	54.0	-10.65	AV	248.00	100	Vertical	Pass
3	4218.000	54.44	2.65	74.0	-19.56	Peak	248.00	100	Vertical	Pass
4**	5248.000	63.24	8.65	--	63.24	AV	157.00	100	Vertical	N/A
4	5248.000	70.53	8.65	--	-86.47	Peak	157.00	100	Vertical	N/A
5**	7524.687	37.43	-2.13	54.0	-16.57	AV	12.00	100	Vertical	Pass
5	7524.687	47.59	-2.13	74.0	-26.41	Peak	12.00	100	Vertical	Pass
6**	12070.062	39.15	1.08	54.0	-14.85	AV	15.00	100	Vertical	Pass
6	12070.062	51.43	1.08	74.0	-22.57	Peak	15.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11n20 ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1492.500	29.02	-14.23	54.0	-24.98	AV	280.00	100	Horizontal	Pass
1	1492.500	39.46	-14.23	74.0	-34.54	Peak	280.00	100	Horizontal	Pass
2**	2841.500	36.27	-5.70	54.0	-17.73	AV	266.00	100	Horizontal	Pass
2	2841.500	47.42	-5.70	74.0	-26.58	Peak	266.00	100	Horizontal	Pass
3**	4158.000	43.35	1.82	54.0	-10.65	AV	345.00	100	Horizontal	Pass
3	4158.000	53.19	1.82	74.0	-20.81	Peak	345.00	100	Horizontal	Pass
4**	5241.000	61.62	8.61	--	61.62	AV	120.00	100	Horizontal	N/A
4	5241.000	70.26	8.61	--	-49.74	Peak	120.00	100	Horizontal	N/A
5**	8173.000	37.91	-1.64	54.0	-16.09	AV	0.00	100	Horizontal	Pass
5	8173.000	48.74	-1.64	74.0	-25.26	Peak	0.00	100	Horizontal	Pass
6**	11299.562	39.31	0.62	54.0	-14.69	AV	72.00	100	Horizontal	Pass
6	11299.562	50.29	0.62	74.0	-23.71	Peak	72.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11n40 ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1541.500	29.19	-14.17	54.0	-24.81	AV	137.00	100	Vertical	Pass
1	1541.500	39.54	-14.17	74.0	-34.46	Peak	137.00	100	Vertical	Pass
2**	2802.500	36.35	-5.68	54.0	-17.65	AV	264.00	100	Vertical	Pass
2	2802.500	47.38	-5.68	74.0	-26.62	Peak	264.00	100	Vertical	Pass
3**	4226.000	43.33	1.53	54.0	-10.67	AV	7.00	100	Vertical	Pass
3	4226.000	53.77	1.53	74.0	-20.23	Peak	7.00	100	Vertical	Pass
4**	5192.000	59.58	8.43	--	59.58	AV	51.00	100	Vertical	N/A
4	5192.000	66.88	8.43	--	15.88	Peak	51.00	100	Vertical	N/A
5**	7529.000	38.09	-1.88	54.0	-15.91	AV	71.00	100	Vertical	Pass
5	7529.000	48.58	-1.88	74.0	-25.42	Peak	71.00	100	Vertical	Pass
6**	12219.563	40.04	1.64	54.0	-13.96	AV	103.00	100	Vertical	Pass
6	12219.563	51.36	1.64	74.0	-22.64	Peak	103.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11n40 ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1565.000	28.89	-13.74	54.0	-25.11	AV	250.00	100	Horizontal	Pass
1	1565.000	40.53	-13.74	74.0	-33.47	Peak	250.00	100	Horizontal	Pass
2**	2882.000	37.78	-5.21	54.0	-16.22	AV	90.00	100	Horizontal	Pass
2	2882.000	48.15	-5.21	74.0	-25.85	Peak	90.00	100	Horizontal	Pass
3**	4222.000	43.42	2.15	54.0	-10.58	AV	356.00	100	Horizontal	Pass
3	4222.000	53.64	2.15	74.0	-20.36	Peak	356.00	100	Horizontal	Pass
4**	5193.000	61.25	8.44	--	61.25	AV	97.00	100	Horizontal	N/A
4	5193.000	67.98	8.44	--	-29.02	Peak	97.00	100	Horizontal	N/A
5**	7487.312	37.36	-2.71	54.0	-16.64	AV	13.00	100	Horizontal	Pass
5	7487.312	47.89	-2.71	74.0	-26.11	Peak	13.00	100	Horizontal	Pass
6**	11907.625	39.65	1.96	54.0	-14.35	AV	5.00	100	Horizontal	Pass
6	11907.625	50.78	1.96	74.0	-23.22	Peak	5.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11n40 ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1530.500	29.11	-14.06	54.0	-24.89	AV	39.00	100	Vertical	Pass
1	1530.500	39.59	-14.06	74.0	-34.41	Peak	39.00	100	Vertical	Pass
2**	2769.500	37.27	-5.98	54.0	-16.73	AV	156.00	100	Vertical	Pass
2	2769.500	47.40	-5.98	74.0	-26.60	Peak	156.00	100	Vertical	Pass
3**	4221.000	43.43	2.28	54.0	-10.57	AV	23.00	100	Vertical	Pass
3	4221.000	53.50	2.28	74.0	-20.50	Peak	23.00	100	Vertical	Pass
4**	5248.000	57.61	8.65	--	57.61	AV	148.00	100	Vertical	N/A
4	5248.000	66.27	8.65	--	-81.73	Peak	148.00	100	Vertical	N/A
5**	7490.187	37.62	-2.80	54.0	-16.38	AV	15.00	100	Vertical	Pass
5	7490.187	48.38	-2.80	74.0	-25.62	Peak	15.00	100	Vertical	Pass
6**	12347.500	39.67	1.82	54.0	-14.33	AV	10.00	100	Vertical	Pass
6	12347.500	50.89	1.82	74.0	-23.11	Peak	10.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11n40 ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1551.500	29.02	-13.74	54.0	-24.98	AV	306.00	100	Horizontal	Pass
1	1551.500	39.58	-13.74	74.0	-34.42	Peak	306.00	100	Horizontal	Pass
2**	2776.000	36.69	-5.71	54.0	-17.31	AV	277.00	100	Horizontal	Pass
2	2776.000	47.40	-5.71	74.0	-26.60	Peak	277.00	100	Horizontal	Pass
3**	4220.000	43.67	2.40	54.0	-10.33	AV	212.00	100	Horizontal	Pass
3	4220.000	53.33	2.40	74.0	-20.67	Peak	212.00	100	Horizontal	Pass
4**	5240.000	57.80	8.61	--	57.80	AV	64.00	100	Horizontal	N/A
4	5240.000	65.57	8.61	--	1.57	Peak	64.00	100	Horizontal	N/A
5**	7537.625	37.43	-1.81	54.0	-16.57	AV	337.00	100	Horizontal	Pass
5	7537.625	48.15	-1.81	74.0	-25.85	Peak	337.00	100	Horizontal	Pass
6**	11817.062	39.13	1.14	54.0	-14.87	AV	58.00	100	Horizontal	Pass
6	11817.062	50.58	1.14	74.0	-23.42	Peak	58.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11ac20 ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1565.000	29.01	-13.74	54.0	-24.99	AV	122.00	100	Vertical	Pass
1	1565.000	39.54	-13.74	74.0	-34.46	Peak	122.00	100	Vertical	Pass
2**	2808.000	37.50	-5.60	54.0	-16.50	AV	46.00	100	Vertical	Pass
2	2808.000	47.80	-5.60	74.0	-26.20	Peak	46.00	100	Vertical	Pass
3**	4218.000	43.85	2.65	54.0	-10.15	AV	273.00	100	Vertical	Pass
3	4218.000	53.16	2.65	74.0	-20.84	Peak	273.00	100	Vertical	Pass
4**	5178.000	65.50	8.34	--	65.50	AV	180.00	100	Vertical	N/A
4	5178.000	72.14	8.34	--	-107.86	Peak	180.00	100	Vertical	N/A
5**	7537.625	37.38	-1.81	54.0	-16.62	AV	7.00	100	Vertical	Pass
5	7537.625	48.55	-1.81	74.0	-25.45	Peak	7.00	100	Vertical	Pass
6**	12271.313	39.55	1.73	54.0	-14.45	AV	4.00	100	Vertical	Pass
6	12271.313	50.19	1.73	74.0	-23.81	Peak	4.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11ac20 ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1349.500	29.65	-14.09	54.0	-24.35	AV	49.00	100	Horizontal	Pass
1	1349.500	38.93	-14.09	74.0	-35.07	Peak	49.00	100	Horizontal	Pass
2**	2814.500	36.53	-5.16	54.0	-17.47	AV	290.00	100	Horizontal	Pass
2	2814.500	47.31	-5.16	74.0	-26.69	Peak	290.00	100	Horizontal	Pass
3**	4162.000	42.94	1.73	54.0	-11.06	AV	184.00	100	Horizontal	Pass
3	4162.000	53.65	1.73	74.0	-20.35	Peak	184.00	100	Horizontal	Pass
4**	5178.000	66.33	8.34	--	66.33	AV	171.00	100	Horizontal	N/A
4	5178.000	73.03	8.34	--	-97.97	Peak	171.00	100	Horizontal	N/A
5**	7533.313	37.72	-1.65	54.0	-16.28	AV	167.00	100	Horizontal	Pass
5	7533.313	48.11	-1.65	74.0	-25.89	Peak	167.00	100	Horizontal	Pass
6**	12304.375	39.21	1.74	54.0	-14.79	AV	180.00	100	Horizontal	Pass
6	12304.375	50.93	1.74	74.0	-23.07	Peak	180.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11ac20 ANT V Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1537.500	28.81	-14.04	54.0	-25.19	AV	197.00	100	Vertical	Pass
1	1537.500	39.82	-14.04	74.0	-34.18	Peak	197.00	100	Vertical	Pass
2**	2809.500	36.92	-5.74	54.0	-17.08	AV	351.00	100	Vertical	Pass
2	2809.500	47.10	-5.74	74.0	-26.90	Peak	351.00	100	Vertical	Pass
3**	4158.000	43.22	1.82	54.0	-10.78	AV	139.00	100	Vertical	Pass
3	4158.000	53.70	1.82	74.0	-20.30	Peak	139.00	100	Vertical	Pass
4**	5202.000	63.80	8.54	--	63.80	AV	152.00	100	Vertical	N/A
4	5202.000	70.03	8.54	--	-81.97	Peak	152.00	100	Vertical	N/A
5**	7498.812	37.37	-2.49	54.0	-16.63	AV	14.00	100	Vertical	Pass
5	7498.812	47.93	-2.49	74.0	-26.07	Peak	14.00	100	Vertical	Pass
6**	12348.937	39.37	1.79	54.0	-14.63	AV	11.00	100	Vertical	Pass
6	12348.937	50.43	1.79	74.0	-23.57	Peak	11.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11ac20 ANT H Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1373.000	28.20	-14.04	54.0	-25.80	AV	86.00	100	Horizontal	Pass
1	1373.000	39.57	-14.04	74.0	-34.43	Peak	86.00	100	Horizontal	Pass
2**	2808.000	37.74	-5.60	54.0	-16.26	AV	101.00	100	Horizontal	Pass
2	2808.000	47.41	-5.60	74.0	-26.59	Peak	101.00	100	Horizontal	Pass
3**	4216.000	43.58	2.68	54.0	-10.42	AV	274.00	100	Horizontal	Pass
3	4216.000	53.97	2.68	74.0	-20.03	Peak	274.00	100	Horizontal	Pass
4**	5199.000	63.42	8.51	--	63.42	AV	141.00	100	Horizontal	N/A
4	5199.000	69.95	8.51	--	-71.05	Peak	141.00	100	Horizontal	N/A
5**	7541.938	37.72	-1.40	54.0	-16.28	AV	6.00	100	Horizontal	Pass
5	7541.938	47.95	-1.40	74.0	-26.05	Peak	6.00	100	Horizontal	Pass
6**	11612.937	39.48	0.34	54.0	-14.52	AV	6.00	100	Horizontal	Pass
6	11612.937	50.69	0.34	74.0	-23.31	Peak	6.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11ac20 ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1471.000	28.04	-13.95	54.0	-25.96	AV	217.00	100	Vertical	Pass
1	1471.000	39.14	-13.95	74.0	-34.86	Peak	217.00	100	Vertical	Pass
2**	2809.000	37.17	-5.70	54.0	-16.83	AV	336.00	100	Vertical	Pass
2	2809.000	47.37	-5.70	74.0	-26.63	Peak	336.00	100	Vertical	Pass
3**	4228.000	42.97	1.49	54.0	-11.03	AV	34.00	100	Vertical	Pass
3	4228.000	52.92	1.49	74.0	-21.08	Peak	34.00	100	Vertical	Pass
4**	5241.000	62.80	8.61	--	62.80	AV	117.00	100	Vertical	N/A
4	5241.000	71.02	8.61	--	-45.98	Peak	117.00	100	Vertical	N/A
5**	7531.875	37.65	-1.69	54.0	-16.35	AV	255.00	100	Vertical	Pass
5	7531.875	47.83	-1.69	74.0	-26.17	Peak	255.00	100	Vertical	Pass
6**	11660.375	39.87	0.48	54.0	-14.13	AV	47.00	100	Vertical	Pass
6	11660.375	50.77	0.48	74.0	-23.23	Peak	47.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11ac20 ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1564.500	28.68	-13.63	54.0	-25.32	AV	319.00	100	Horizontal	Pass
1	1564.500	40.04	-13.63	74.0	-33.96	Peak	319.00	100	Horizontal	Pass
2**	2248.000	35.20	-8.61	54.0	-18.80	AV	0.00	100	Horizontal	Pass
2	2248.000	46.59	-8.61	74.0	-27.41	Peak	0.00	100	Horizontal	Pass
3**	4157.000	43.21	1.61	54.0	-10.79	AV	266.00	100	Horizontal	Pass
3	4157.000	53.42	1.61	74.0	-20.58	Peak	266.00	100	Horizontal	Pass
4**	5241.000	62.01	8.61	--	62.01	AV	99.00	100	Horizontal	N/A
4	5241.000	70.35	8.61	--	-28.65	Peak	99.00	100	Horizontal	N/A
5**	8387.188	37.03	-0.92	54.0	-16.97	AV	6.00	100	Horizontal	Pass
5	8387.188	48.38	-0.92	74.0	-25.62	Peak	6.00	100	Horizontal	Pass
6**	11699.188	38.82	0.71	54.0	-15.18	AV	1.00	100	Horizontal	Pass
6	11699.188	49.93	0.71	74.0	-24.07	Peak	1.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11ac40 ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1532.500	29.39	-14.02	54.0	-24.61	AV	101.00	100	Vertical	Pass
1	1532.500	39.02	-14.02	74.0	-34.98	Peak	101.00	100	Vertical	Pass
2**	2770.000	37.25	-5.97	54.0	-16.75	AV	40.00	100	Vertical	Pass
2	2770.000	47.75	-5.97	74.0	-26.25	Peak	40.00	100	Vertical	Pass
3**	4220.000	43.67	2.40	54.0	-10.33	AV	334.00	100	Vertical	Pass
3	4220.000	53.46	2.40	74.0	-20.54	Peak	334.00	100	Vertical	Pass
4**	5178.000	59.54	8.34	--	59.54	AV	164.00	100	Vertical	N/A
4	5178.000	67.28	8.34	--	-96.72	Peak	164.00	100	Vertical	N/A
5**	7437.000	37.12	-2.53	54.0	-16.88	AV	14.00	100	Vertical	Pass
5	7437.000	47.55	-2.53	74.0	-26.45	Peak	14.00	100	Vertical	Pass
6**	11874.562	39.00	1.70	54.0	-15.00	AV	1.00	100	Vertical	Pass
6	11874.562	50.42	1.70	74.0	-23.58	Peak	1.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11ac40 ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1485.000	28.47	-14.29	54.0	-25.53	AV	43.00	100	Horizontal	Pass
1	1485.000	39.67	-14.29	74.0	-34.33	Peak	43.00	100	Horizontal	Pass
2**	2738.000	35.92	-6.59	54.0	-18.08	AV	147.00	100	Horizontal	Pass
2	2738.000	47.13	-6.59	74.0	-26.87	Peak	147.00	100	Horizontal	Pass
3**	4218.000	43.10	2.65	54.0	-10.90	AV	45.00	100	Horizontal	Pass
3	4218.000	53.02	2.65	74.0	-20.98	Peak	45.00	100	Horizontal	Pass
4**	5173.000	58.94	8.31	--	58.94	AV	106.00	100	Horizontal	N/A
4	5173.000	67.03	8.31	--	-38.97	Peak	106.00	100	Horizontal	N/A
5**	7487.312	37.09	-2.71	54.0	-16.91	AV	10.00	100	Horizontal	Pass
5	7487.312	47.39	-2.71	74.0	-26.61	Peak	10.00	100	Horizontal	Pass
6**	11955.063	39.10	1.30	54.0	-14.90	AV	4.00	100	Horizontal	Pass
6	11955.063	50.23	1.30	74.0	-23.77	Peak	4.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11ac40 ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1579.500	28.67	-14.03	54.0	-25.33	AV	354.00	100	Vertical	Pass
1	1579.500	39.74	-14.03	74.0	-34.26	Peak	354.00	100	Vertical	Pass
2**	2804.500	36.71	-6.05	54.0	-17.29	AV	166.00	100	Vertical	Pass
2	2804.500	47.24	-6.05	74.0	-26.76	Peak	166.00	100	Vertical	Pass
3**	4162.000	43.17	1.73	54.0	-10.83	AV	78.00	100	Vertical	Pass
3	4162.000	53.49	1.73	74.0	-20.51	Peak	78.00	100	Vertical	Pass
4**	5247.000	57.20	8.64	--	57.20	AV	148.00	100	Vertical	N/A
4	5247.000	66.01	8.64	--	-81.99	Peak	148.00	100	Vertical	N/A
5**	8211.812	37.05	-1.73	54.0	-16.95	AV	2.00	100	Vertical	Pass
5	8211.812	48.62	-1.73	74.0	-25.38	Peak	2.00	100	Vertical	Pass
6**	12609.125	40.32	2.18	54.0	-13.68	AV	8.00	100	Vertical	Pass
6	12609.125	51.26	2.18	74.0	-22.74	Peak	8.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11ac40 ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1537.000	28.78	-13.99	54.0	-25.22	AV	178.00	100	Horizontal	Pass
1	1537.000	39.50	-13.99	74.0	-34.50	Peak	178.00	100	Horizontal	Pass
2**	2806.000	36.89	-5.94	54.0	-17.11	AV	301.00	100	Horizontal	Pass
2	2806.000	47.48	-5.94	74.0	-26.52	Peak	301.00	100	Horizontal	Pass
3**	4217.000	44.02	2.67	54.0	-9.98	AV	317.00	100	Horizontal	Pass
3	4217.000	53.69	2.67	74.0	-20.31	Peak	317.00	100	Horizontal	Pass
4**	5248.000	58.47	8.65	--	58.47	AV	150.00	100	Horizontal	N/A
4	5248.000	64.90	8.65	--	-85.10	Peak	150.00	100	Horizontal	N/A
5**	7438.437	37.28	-2.63	54.0	-16.72	AV	11.00	100	Horizontal	Pass
5	7438.437	47.39	-2.63	74.0	-26.61	Peak	11.00	100	Horizontal	Pass
6**	12442.375	39.34	1.90	54.0	-14.66	AV	8.00	100	Horizontal	Pass
6	12442.375	50.90	1.90	74.0	-23.10	Peak	8.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band I 11ac80 ANT V Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1199.500	26.03	-17.55	54.0	-27.97	AV	246.00	100	Vertical	Pass
1	1199.500	36.31	-17.55	74.0	-37.69	Peak	246.00	100	Vertical	Pass
2**	2250.000	32.59	-12.41	54.0	-21.41	AV	128.00	100	Vertical	Pass
2	2250.000	41.33	-12.41	74.0	-32.67	Peak	128.00	100	Vertical	Pass
3**	4045.000	36.40	-4.93	54.0	-17.60	AV	117.00	100	Vertical	Pass
3	4045.000	46.21	-4.93	74.0	-27.79	Peak	117.00	100	Vertical	Pass
4**	5209.000	89.69	-2.85	--	89.69	AV	166.00	100	Vertical	N/A
4	5209.000	95.78	-2.85	--	-70.22	Peak	166.00	100	Vertical	Pass
5**	7370.875	37.11	-3.67	54.0	-16.89	AV	249.00	100	Vertical	Pass
5	7370.875	47.71	-3.67	74.0	-26.29	Peak	249.00	100	Vertical	Pass
6**	10813.688	39.22	0.72	54.0	-14.78	AV	360.00	100	Vertical	Pass
6	10813.688	50.23	0.72	74.0	-23.77	Peak	360.00	100	Vertical	Pass

1 GHz to 18 GHz, Band I 11ac80 ANT H Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1200.000	27.14	-17.58	54.0	-26.86	AV	136.00	100	Horizontal	Pass
1	1200.000	37.73	-17.58	74.0	-36.27	Peak	136.00	100	Horizontal	Pass
2**	2808.000	32.37	-10.01	54.0	-21.63	AV	342.00	100	Horizontal	Pass
2	2808.000	42.82	-10.01	74.0	-31.18	Peak	342.00	100	Horizontal	Pass
3**	4060.000	36.75	-5.06	54.0	-17.25	AV	45.00	100	Horizontal	Pass
3	4060.000	46.62	-5.06	74.0	-27.38	Peak	45.00	100	Horizontal	Pass
4**	5209.000	93.58	-2.85	--	93.58	AV	108.00	100	Horizontal	N/A
4	5209.000	100.65	-2.85	--	-7.35	Peak	108.00	100	Horizontal	Pass
5**	7362.250	36.92	-3.55	54.0	-17.08	AV	360.00	100	Horizontal	Pass
5	7362.250	47.99	-3.55	74.0	-26.01	Peak	360.00	100	Horizontal	Pass
6**	15520.687	43.82	2.52	54.0	-10.18	AV	148.00	100	Horizontal	Pass
6	15520.687	54.38	2.52	74.0	-19.62	Peak	148.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11a ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.11	-17.71	54.0	-16.89	AV	314.00	100	Vertical	Pass
1	1188.000	51.25	-17.71	74.0	-22.75	Peak	314.00	100	Vertical	Pass
2**	1980.000	38.20	-15.55	--	38.20	AV	185.00	100	Vertical	N/A
2	1980.000	53.78	-15.55	68.2	-14.42	Peak	185.00	100	Vertical	Pass
3**	2772.000	37.85	-10.57	54.0	-16.15	AV	160.00	100	Vertical	Pass
3	2772.000	53.28	-10.57	74.0	-20.72	Peak	160.00	100	Vertical	Pass
4**	5752.000	93.45	-2.07	--	93.45	AV	117.00	100	Vertical	N/A
4	5752.000	101.93	-2.07	--	-15.07	Peak	117.00	100	Vertical	N/A
5**	7534.750	36.94	-1.82	54.0	-17.06	AV	153.00	100	Vertical	Pass
5	7534.750	47.33	-1.82	74.0	-26.67	Peak	153.00	100	Vertical	Pass
6**	11955.063	39.02	1.30	54.0	-14.98	AV	305.00	100	Vertical	Pass
6	11955.063	50.64	1.30	74.0	-23.36	Peak	305.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11a ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	34.56	-17.71	54.0	-19.44	AV	129.00	100	Horizontal	Pass
1	1188.000	49.35	-17.71	74.0	-24.65	Peak	129.00	100	Horizontal	Pass
2**	1980.000	35.81	-15.55	--	35.81	AV	129.00	100	Horizontal	Pass
2	1980.000	50.40	-15.55	68.2	-17.80	Peak	129.00	100	Horizontal	Pass
3**	2772.000	32.86	-10.57	54.0	-21.14	AV	188.00	100	Horizontal	Pass
3	2772.000	45.51	-10.57	74.0	-28.49	Peak	188.00	100	Horizontal	Pass
4**	5746.000	95.86	-2.08	--	95.86	AV	81.00	100	Horizontal	N/A
4	5746.000	103.69	-2.08	--	22.69	Peak	81.00	100	Horizontal	N/A
5**	7547.687	37.87	-1.43	54.0	-16.13	AV	156.00	100	Horizontal	Pass
5	7547.687	48.93	-1.43	74.0	-25.07	Peak	156.00	100	Horizontal	Pass
6**	12274.187	39.80	1.84	54.0	-14.20	AV	300.00	100	Horizontal	Pass
6	12274.187	51.23	1.84	74.0	-22.77	Peak	300.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11a ANT V Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.47	-17.71	54.0	-16.53	AV	130.00	100	Vertical	Pass
1	1188.000	51.69	-17.71	74.0	-22.31	Peak	130.00	100	Vertical	Pass
2**	1980.000	37.98	-15.55	--	37.98	AV	210.00	100	Vertical	Pass
2	1980.000	53.03	-15.55	68.2	-15.17	Peak	210.00	100	Vertical	Pass
3**	2772.000	37.09	-10.57	54.0	-16.91	AV	149.00	100	Vertical	Pass
3	2772.000	53.78	-10.57	74.0	-20.22	Peak	149.00	100	Vertical	Pass
4**	5783.000	93.93	-2.08	--	93.93	AV	102.00	100	Vertical	N/A
4	5783.000	101.29	-2.08	--	-0.71	Peak	102.00	100	Vertical	N/A
5**	7659.812	37.54	-2.72	54.0	-16.46	AV	222.00	100	Vertical	Pass
5	7659.812	48.18	-2.72	74.0	-25.82	Peak	222.00	100	Vertical	Pass
6**	11620.125	39.64	0.35	54.0	-14.36	AV	199.00	100	Vertical	Pass
6	11620.125	50.22	0.35	74.0	-23.78	Peak	199.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11a ANT H Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	33.83	-17.71	54.0	-20.17	AV	150.00	100	Horizontal	Pass
1	1188.000	48.65	-17.71	74.0	-25.35	Peak	150.00	100	Horizontal	Pass
2**	1980.500	39.38	-15.50	--	39.38	AV	126.00	100	Horizontal	Pass
2	1980.500	49.41	-15.50	68.2	-18.79	Peak	126.00	100	Horizontal	Pass
3**	2772.000	32.58	-10.57	54.0	-21.42	AV	150.00	100	Horizontal	Pass
3	2772.000	45.89	-10.57	74.0	-28.11	Peak	150.00	100	Horizontal	Pass
4**	5785.000	96.45	-2.13	--	96.45	AV	82.00	100	Horizontal	N/A
4	5785.000	103.61	-2.13	--	21.61	Peak	82.00	100	Horizontal	N/A
5**	7552.000	37.87	-1.82	54.0	-16.13	AV	181.00	100	Horizontal	Pass
5	7552.000	48.16	-1.82	74.0	-25.84	Peak	181.00	100	Horizontal	Pass
6**	12223.875	40.12	1.69	54.0	-13.88	AV	361.00	100	Horizontal	Pass
6	12223.875	51.35	1.69	74.0	-22.65	Peak	361.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11a ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.42	-17.71	54.0	-16.58	AV	145.00	100	Vertical	Pass
1	1188.000	51.95	-17.71	74.0	-22.05	Peak	145.00	100	Vertical	Pass
2**	1980.000	38.23	-15.55	--	38.23	AV	218.00	100	Vertical	Pass
2	1980.000	52.52	-15.55	68.2	-15.68	Peak	218.00	100	Vertical	Pass
3**	2772.000	37.59	-10.57	54.0	-16.41	AV	169.00	100	Vertical	Pass
3	2772.000	53.26	-10.57	74.0	-20.74	Peak	169.00	100	Vertical	Pass
4**	5827.000	95.42	-1.96	--	95.42	AV	149.00	100	Vertical	N/A
4	5827.000	101.78	-1.96	--	-47.22	Peak	149.00	100	Vertical	N/A
5**	7483.000	37.88	-3.06	54.0	-16.12	AV	361.00	100	Vertical	Pass
5	7483.000	48.29	-3.06	74.0	-25.71	Peak	361.00	100	Vertical	Pass
6**	11658.937	39.27	0.43	54.0	-14.73	AV	318.00	100	Vertical	Pass
6	11658.937	50.45	0.43	74.0	-23.55	Peak	318.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11a ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	34.45	-17.71	54.0	-19.55	AV	119.00	100	Horizontal	Pass
1	1188.000	49.34	-17.71	74.0	-24.66	Peak	119.00	100	Horizontal	Pass
2**	1980.000	35.68	-15.55	--	35.68	AV	95.00	100	Horizontal	Pass
2	1980.000	50.62	-15.55	68.2	-17.58	Peak	95.00	100	Horizontal	Pass
3**	2772.500	37.01	-10.52	54.0	-16.99	AV	119.00	100	Horizontal	Pass
3	2772.500	45.54	-10.52	74.0	-28.46	Peak	119.00	100	Horizontal	Pass
4**	5822.000	95.15	-2.14	--	95.15	AV	117.00	100	Horizontal	N/A
4	5822.000	103.73	-2.14	--	-13.27	Peak	117.00	100	Horizontal	N/A
5**	7508.875	37.74	-2.23	54.0	-16.26	AV	126.00	100	Horizontal	Pass
5	7508.875	48.12	-2.23	74.0	-25.88	Peak	126.00	100	Horizontal	Pass
6**	11900.438	40.45	2.23	54.0	-13.55	AV	268.00	100	Horizontal	Pass
6	11900.438	50.69	2.23	74.0	-23.31	Peak	268.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11n20 ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.68	-17.71	54.0	-16.32	AV	126.00	100	Vertical	Pass
1	1188.000	52.62	-17.71	74.0	-21.38	Peak	126.00	100	Vertical	Pass
2**	1980.000	36.69	-15.55	--	36.69	AV	194.00	100	Vertical	Pass
2	1980.000	52.35	-15.55	68.2	-15.85	Peak	194.00	100	Vertical	Pass
3**	2772.500	43.01	-10.52	54.0	-10.99	AV	148.00	100	Vertical	Pass
3	2772.500	52.97	-10.52	74.0	-21.03	Peak	148.00	100	Vertical	Pass
4**	5746.000	94.14	-2.08	--	94.14	AV	92.00	100	Vertical	N/A
4	5746.000	101.30	-2.08	--	9.30	Peak	92.00	100	Vertical	N/A
5**	7529.000	37.54	-1.88	54.0	-16.46	AV	243.00	100	Vertical	Pass
5	7529.000	47.85	-1.88	74.0	-26.15	Peak	243.00	100	Vertical	Pass
6**	11999.625	39.86	1.46	54.0	-14.14	AV	315.00	100	Vertical	Pass
6	11999.625	51.11	1.46	74.0	-22.89	Peak	315.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11n20 ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	33.61	-17.71	54.0	-20.39	AV	135.00	100	Horizontal	Pass
1	1188.000	48.51	-17.71	74.0	-25.49	Peak	135.00	100	Horizontal	Pass
2**	1980.000	34.06	-15.55	--	34.06	AV	135.00	100	Horizontal	Pass
2	1980.000	49.85	-15.55	68.2	-18.35	Peak	135.00	100	Horizontal	Pass
3**	2772.000	33.34	-10.57	54.0	-20.66	AV	186.00	100	Horizontal	Pass
3	2772.000	46.62	-10.57	74.0	-27.38	Peak	186.00	100	Horizontal	Pass
4**	5747.000	96.63	-2.11	--	96.63	AV	74.00	100	Horizontal	N/A
4	5747.000	104.16	-2.11	--	30.16	Peak	74.00	100	Horizontal	N/A
5**	7539.062	37.77	-1.68	54.0	-16.23	AV	336.00	100	Horizontal	Pass
5	7539.062	49.27	-1.68	74.0	-24.73	Peak	336.00	100	Horizontal	Pass
6**	12055.687	39.77	1.37	54.0	-14.23	AV	360.00	100	Horizontal	Pass
6	12055.687	51.44	1.37	74.0	-22.56	Peak	360.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11n20 ANT V Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.86	-17.71	54.0	-16.14	AV	153.00	100	Vertical	Pass
1	1188.000	51.82	-17.71	74.0	-22.18	Peak	153.00	100	Vertical	Pass
2**	1980.500	41.83	-15.50	--	41.83	AV	204.00	100	Vertical	Pass
2	1980.500	51.71	-15.50	68.2	-16.49	Peak	204.00	100	Vertical	Pass
3**	2772.500	43.16	-10.52	54.0	-10.84	AV	153.00	100	Vertical	Pass
3	2772.500	53.78	-10.52	74.0	-20.22	Peak	153.00	100	Vertical	Pass
4**	5784.000	93.40	-2.13	--	93.40	AV	100.00	100	Vertical	N/A
4	5784.000	100.95	-2.13	--	0.95	Peak	100.00	100	Vertical	N/A
5**	7445.625	37.82	-3.06	54.0	-16.18	AV	239.00	100	Vertical	Pass
5	7445.625	48.18	-3.06	74.0	-25.82	Peak	239.00	100	Vertical	Pass
6**	12336.000	39.97	1.91	54.0	-14.03	AV	215.00	100	Vertical	Pass
6	12336.000	50.93	1.91	74.0	-23.07	Peak	215.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11n20 ANT H Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	33.26	-17.71	54.0	-20.74	AV	157.00	100	Horizontal	Pass
1	1188.000	48.07	-17.71	74.0	-25.93	Peak	157.00	100	Horizontal	Pass
2**	1980.500	39.29	-15.50	--	39.29	AV	126.00	100	Horizontal	Pass
2	1980.500	49.76	-15.50	68.2	-18.44	Peak	126.00	100	Horizontal	Pass
3**	2772.000	32.93	-10.57	54.0	-21.07	AV	157.00	100	Horizontal	Pass
3	2772.000	46.67	-10.57	74.0	-27.33	Peak	157.00	100	Horizontal	Pass
4**	5792.000	95.59	-1.96	--	95.59	AV	94.00	100	Horizontal	N/A
4	5792.000	103.39	-1.96	--	9.39	Peak	94.00	100	Horizontal	N/A
5**	8111.187	38.09	-1.66	54.0	-15.91	AV	47.00	100	Horizontal	Pass
5	8111.187	48.53	-1.66	74.0	-25.47	Peak	47.00	100	Horizontal	Pass
6**	12278.500	40.44	2.03	54.0	-13.56	AV	142.00	100	Horizontal	Pass
6	12278.500	50.63	2.03	74.0	-23.37	Peak	142.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11n20 ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.74	-17.71	54.0	-16.26	AV	174.00	100	Vertical	Pass
1	1188.000	51.77	-17.71	74.0	-22.23	Peak	174.00	100	Vertical	Pass
2**	1980.000	38.04	-15.55	--	38.04	AV	225.00	100	Vertical	Pass
2	1980.000	52.27	-15.55	68.2	-15.93	Peak	225.00	100	Vertical	Pass
3**	2772.000	37.33	-10.57	54.0	-16.67	AV	174.00	100	Vertical	Pass
3	2772.000	52.79	-10.57	74.0	-21.21	Peak	174.00	100	Vertical	Pass
4**	5828.000	93.99	-1.85	--	93.99	AV	160.00	100	Vertical	N/A
4	5828.000	101.07	-1.85	--	-58.93	Peak	160.00	100	Vertical	N/A
5**	7435.562	37.40	-2.50	54.0	-16.60	AV	161.00	100	Vertical	Pass
5	7435.562	48.60	-2.50	74.0	-25.40	Peak	161.00	100	Vertical	Pass
6**	12022.625	39.23	1.14	54.0	-14.77	AV	336.00	100	Vertical	Pass
6	12022.625	50.73	1.14	74.0	-23.27	Peak	336.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11n20 ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	33.54	-17.71	54.0	-20.46	AV	116.00	100	Horizontal	Pass
1	1188.000	47.79	-17.71	74.0	-26.21	Peak	116.00	100	Horizontal	Pass
2**	1980.000	34.93	-15.55	--	34.93	AV	116.00	100	Horizontal	Pass
2	1980.000	49.16	-15.55	68.2	-19.04	Peak	116.00	100	Horizontal	Pass
3**	2772.000	32.97	-10.57	54.0	-21.03	AV	141.00	100	Horizontal	Pass
3	2772.000	45.76	-10.57	74.0	-28.24	Peak	141.00	100	Horizontal	Pass
4**	5826.000	95.92	-1.99	--	95.92	AV	105.00	100	Horizontal	N/A
4	5826.000	103.35	-1.99	--	-1.65	Peak	105.00	100	Horizontal	N/A
5**	7437.000	37.86	-2.53	54.0	-16.14	AV	-1.00	100	Horizontal	Pass
5	7437.000	47.94	-2.53	74.0	-26.06	Peak	-1.00	100	Horizontal	Pass
6**	12272.750	39.64	1.79	54.0	-14.36	AV	215.00	100	Horizontal	Pass
6	12272.750	50.92	1.79	74.0	-23.08	Peak	215.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11n40 ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.99	-17.71	54.0	-16.01	AV	140.00	100	Vertical	Pass
1	1188.000	52.53	-17.71	74.0	-21.47	Peak	140.00	100	Vertical	Pass
2**	1980.000	36.86	-15.55	--	36.86	AV	197.00	100	Vertical	Pass
2	1980.000	52.19	-15.55	68.2	-16.01	Peak	197.00	100	Vertical	Pass
3**	2772.000	38.67	-10.57	54.0	-15.33	AV	140.00	100	Vertical	Pass
3	2772.000	52.77	-10.57	74.0	-21.23	Peak	140.00	100	Vertical	Pass
4**	5753.000	92.35	-2.09	--	92.35	AV	119.00	100	Vertical	N/A
4	5753.000	100.22	-2.09	--	-18.78	Peak	119.00	100	Vertical	N/A
5**	7380.938	37.02	-3.63	54.0	-16.98	AV	305.00	100	Vertical	Pass
5	7380.938	47.67	-3.63	74.0	-26.33	Peak	305.00	100	Vertical	Pass
6**	12169.250	39.64	1.04	54.0	-14.36	AV	0.00	100	Vertical	Pass
6	12169.250	51.02	1.04	74.0	-22.98	Peak	0.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11n40 ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	34.11	-17.71	54.0	-19.89	AV	148.00	100	Horizontal	Pass
1	1188.000	48.05	-17.71	74.0	-25.95	Peak	148.00	100	Horizontal	Pass
2**	1980.000	34.22	-15.55	--	34.22	AV	148.00	100	Horizontal	N/A
2	1980.000	49.68	-15.55	68.2	-18.52	Peak	148.00	100	Horizontal	Pass
3**	2772.000	32.65	-10.57	54.0	-21.35	AV	184.00	100	Horizontal	Pass
3	2772.000	46.04	-10.57	74.0	-27.96	Peak	184.00	100	Horizontal	Pass
4**	5763.000	93.93	-2.12	--	93.93	AV	90.00	100	Horizontal	N/A
4	5763.000	102.19	-2.12	--	12.19	Peak	90.00	100	Horizontal	N/A
5**	7326.312	37.06	-3.01	54.0	-16.94	AV	89.00	100	Horizontal	Pass
5	7326.312	47.85	-3.01	74.0	-26.15	Peak	89.00	100	Horizontal	Pass
6**	11980.937	39.80	1.12	54.0	-14.20	AV	360.00	100	Horizontal	Pass
6	11980.937	50.98	1.12	74.0	-23.02	Peak	360.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11n40 ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.45	-17.71	54.0	-16.55	AV	192.00	100	Vertical	Pass
1	1188.000	52.91	-17.71	74.0	-21.09	Peak	192.00	100	Vertical	Pass
2**	1980.000	36.86	-15.55	--	36.86	AV	192.00	100	Vertical	Pass
2	1980.000	51.87	-15.55	68.2	-16.33	Peak	192.00	100	Vertical	Pass
3**	2772.000	37.71	-10.57	54.0	-16.29	AV	192.00	100	Vertical	Pass
3	2772.000	53.20	-10.57	74.0	-20.80	Peak	192.00	100	Vertical	Pass
4**	5790.000	91.24	-1.98	--	91.24	AV	81.00	100	Vertical	N/A
4	5790.000	98.93	-1.98	--	17.93	Peak	81.00	100	Vertical	N/A
5**	7518.938	37.07	-2.06	54.0	-16.93	AV	282.00	100	Vertical	Pass
5	7518.938	47.97	-2.06	74.0	-26.03	Peak	282.00	100	Vertical	Pass
6**	11615.813	39.70	0.33	54.0	-14.30	AV	56.00	100	Vertical	Pass
6	11615.813	51.03	0.33	74.0	-22.97	Peak	56.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11n40 ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	34.54	-17.71	54.0	-19.46	AV	119.00	100	Horizontal	Pass
1	1188.000	49.41	-17.71	74.0	-24.59	Peak	119.00	100	Horizontal	Pass
2**	1980.000	35.21	-15.55	--	35.21	AV	119.00	100	Horizontal	Pass
2	1980.000	49.12	-15.55	68.2	-19.08	Peak	119.00	100	Horizontal	Pass
3**	2772.000	33.19	-10.57	54.0	-20.81	AV	119.00	100	Horizontal	Pass
3	2772.000	47.57	-10.57	74.0	-26.43	Peak	119.00	100	Horizontal	Pass
4**	5794.000	95.02	-1.91	--	95.02	AV	110.00	100	Horizontal	N/A
4	5794.000	102.32	-1.91	--	-7.68	Peak	110.00	100	Horizontal	N/A
5**	7557.750	36.78	-2.30	54.0	-17.22	AV	87.00	100	Horizontal	Pass
5	7557.750	48.60	-2.30	74.0	-25.40	Peak	87.00	100	Horizontal	Pass
6**	12210.938	39.30	1.42	54.0	-14.70	AV	30.00	100	Horizontal	Pass
6	12210.938	50.79	1.42	74.0	-23.21	Peak	30.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11ac20 ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.40	-17.71	54.0	-16.60	AV	139.00	100	Vertical	Pass
1	1188.000	52.05	-17.71	74.0	-21.95	Peak	139.00	100	Vertical	Pass
2**	1980.000	36.98	-15.55	--	36.98	AV	199.00	100	Vertical	Pass
2	1980.000	52.09	-15.55	68.2	-16.11	Peak	199.00	100	Vertical	Pass
3**	2772.000	37.50	-10.57	54.0	-16.50	AV	139.00	100	Vertical	Pass
3	2772.000	53.70	-10.57	74.0	-20.30	Peak	139.00	100	Vertical	Pass
4**	5746.000	94.85	-2.08	--	94.85	AV	74.00	100	Vertical	N/A
4	5746.000	101.91	-2.08	--	27.91	Peak	74.00	100	Vertical	N/A
5**	7507.438	37.52	-2.41	54.0	-16.48	AV	287.00	100	Vertical	Pass
5	7507.438	47.89	-2.41	74.0	-26.11	Peak	287.00	100	Vertical	Pass
6**	11403.062	38.97	0.02	54.0	-15.03	AV	137.00	100	Vertical	Pass
6	11403.062	50.48	0.02	74.0	-23.52	Peak	137.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11ac20 ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	33.57	-17.71	54.0	-20.43	AV	144.00	100	Horizontal	Pass
1	1188.000	47.39	-17.71	74.0	-26.61	Peak	144.00	100	Horizontal	Pass
2**	1980.500	39.12	-15.50	--	39.12	AV	144.00	100	Horizontal	Pass
2	1980.500	48.79	-15.50	68.2	-19.41	Peak	144.00	100	Horizontal	Pass
3**	2772.000	32.52	-10.57	54.0	-21.48	AV	144.00	100	Horizontal	Pass
3	2772.000	45.90	-10.57	74.0	-28.10	Peak	144.00	100	Horizontal	Pass
4**	5741.000	95.44	-2.21	--	95.44	AV	80.00	100	Horizontal	N/A
4	5741.000	103.84	-2.21	--	23.84	Peak	80.00	100	Horizontal	N/A
5**	7379.500	37.01	-3.65	54.0	-16.99	AV	54.00	100	Horizontal	Pass
5	7379.500	47.59	-3.65	74.0	-26.41	Peak	54.00	100	Horizontal	Pass
6**	12272.750	39.77	1.79	54.0	-14.23	AV	345.00	100	Horizontal	Pass
6	12272.750	50.76	1.79	74.0	-23.24	Peak	345.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11ac20 ANT V Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	36.92	-17.71	54.0	-17.08	AV	183.00	100	Vertical	Pass
1	1188.000	52.36	-17.71	74.0	-21.64	Peak	183.00	100	Vertical	Pass
2**	1980.000	36.85	-15.55	--	36.85	AV	211.00	100	Vertical	Pass
2	1980.000	52.23	-15.55	68.2	-15.97	Peak	211.00	100	Vertical	Pass
3**	2772.000	38.37	-10.57	54.0	-15.63	AV	183.00	100	Vertical	Pass
3	2772.000	53.00	-10.57	74.0	-21.00	Peak	183.00	100	Vertical	Pass
4**	5785.000	94.32	-2.13	--	94.32	AV	87.00	100	Vertical	N/A
4	5785.000	100.84	-2.13	--	13.84	Peak	87.00	100	Vertical	N/A
5**	7422.625	37.23	-2.51	54.0	-16.77	AV	238.00	100	Vertical	Pass
5	7422.625	49.13	-2.51	74.0	-24.87	Peak	238.00	100	Vertical	Pass
6**	11589.937	39.98	0.20	54.0	-14.02	AV	51.00	100	Vertical	Pass
6	11589.937	50.30	0.20	74.0	-23.70	Peak	51.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11ac20 ANT H Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.500	38.30	-17.75	54.0	-15.70	AV	125.00	100	Horizontal	Pass
1	1188.500	47.91	-17.75	74.0	-26.09	Peak	125.00	100	Horizontal	Pass
2**	1980.000	33.95	-15.55	--	33.95	AV	125.00	100	Horizontal	Pass
2	1980.000	48.75	-15.55	68.2	-19.45	Peak	125.00	100	Horizontal	Pass
3**	2772.000	32.84	-10.57	54.0	-21.16	AV	125.00	100	Horizontal	Pass
3	2772.000	45.70	-10.57	74.0	-28.30	Peak	125.00	100	Horizontal	Pass
4**	5786.000	95.41	-2.10	--	95.41	AV	103.00	100	Horizontal	N/A
4	5786.000	103.17	-2.10	--	0.17	Peak	103.00	100	Horizontal	N/A
5**	8295.187	37.58	-1.07	54.0	-16.42	AV	155.00	100	Horizontal	Pass
5	8295.187	49.33	-1.07	74.0	-24.67	Peak	155.00	100	Horizontal	Pass
6**	12359.000	39.68	1.62	54.0	-14.32	AV	-1.00	100	Horizontal	Pass
6	12359.000	50.85	1.62	74.0	-23.15	Peak	-1.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11ac20 ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	36.99	-17.71	54.0	-17.01	AV	142.00	100	Vertical	Pass
1	1188.000	52.59	-17.71	74.0	-21.41	Peak	142.00	100	Vertical	Pass
2**	1980.000	36.86	-15.55	--	36.86	AV	170.00	100	Vertical	Pass
2	1980.000	51.64	-15.55	68.2	-16.56	Peak	170.00	100	Vertical	Pass
3**	2772.000	37.34	-10.57	54.0	-16.66	AV	142.00	100	Vertical	Pass
3	2772.000	53.09	-10.57	74.0	-20.91	Peak	142.00	100	Vertical	Pass
4**	5826.000	93.09	-1.99	--	93.09	AV	182.00	100	Vertical	N/A
4	5826.000	101.15	-1.99	--	-80.85	Peak	182.00	100	Vertical	N/A
5**	7546.250	37.72	-1.56	54.0	-16.28	AV	281.00	100	Vertical	Pass
5	7546.250	48.38	-1.56	74.0	-25.62	Peak	281.00	100	Vertical	Pass
6**	12356.125	39.52	1.65	54.0	-14.48	AV	49.00	100	Vertical	Pass
6	12356.125	50.59	1.65	74.0	-23.41	Peak	49.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11ac20 ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	33.56	-17.71	54.0	-20.44	AV	87.00	100	Horizontal	Pass
1	1188.000	47.87	-17.71	74.0	-26.13	Peak	87.00	100	Horizontal	Pass
2**	1980.000	33.81	-15.55	--	33.81	AV	145.00	100	Horizontal	Pass
2	1980.000	48.34	-15.55	68.2	-19.86	Peak	145.00	100	Horizontal	Pass
3**	2772.000	32.90	-10.57	54.0	-21.10	AV	145.00	100	Horizontal	Pass
3	2772.000	46.82	-10.57	74.0	-27.18	Peak	145.00	100	Horizontal	Pass
4**	5826.000	96.16	-1.99	--	96.16	AV	76.00	100	Horizontal	N/A
4	5826.000	104.04	-1.99	--	28.04	Peak	76.00	100	Horizontal	N/A
5**	7531.875	37.64	-1.69	54.0	-16.36	AV	0.00	100	Horizontal	Pass
5	7531.875	48.25	-1.69	74.0	-25.75	Peak	0.00	100	Horizontal	Pass
6**	10825.187	39.37	0.94	54.0	-14.63	AV	261.00	100	Horizontal	Pass
6	10825.187	50.61	0.94	74.0	-23.39	Peak	261.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11ac40 ANT V Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	37.57	-17.71	54.0	-16.43	AV	168.00	100	Vertical	Pass
1	1188.000	52.51	-17.71	74.0	-21.49	Peak	168.00	100	Vertical	Pass
2**	1980.000	37.38	-15.55	--	37.38	AV	195.00	100	Vertical	Pass
2	1980.000	53.19	-15.55	68.2	-15.01	Peak	195.00	100	Vertical	Pass
3**	2772.000	37.53	-10.57	54.0	-16.47	AV	168.00	100	Vertical	Pass
3	2772.000	53.88	-10.57	74.0	-20.12	Peak	168.00	100	Vertical	Pass
4**	5753.000	91.71	-2.09	--	91.71	AV	316.00	100	Vertical	N/A
4	5753.000	99.12	-2.09	--	-216.88	Peak	316.00	100	Vertical	N/A
5**	7421.188	37.12	-2.49	54.0	-16.88	AV	180.00	100	Vertical	Pass
5	7421.188	47.83	-2.49	74.0	-26.17	Peak	180.00	100	Vertical	Pass
6**	12279.937	39.91	2.09	54.0	-14.09	AV	284.00	100	Vertical	Pass
6	12279.937	51.25	2.09	74.0	-22.75	Peak	284.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11ac40 ANT H Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	33.70	-17.71	54.0	-20.30	AV	143.00	100	Horizontal	Pass
1	1188.000	47.62	-17.71	74.0	-26.38	Peak	143.00	100	Horizontal	Pass
2**	1980.000	34.25	-15.55	--	34.25	AV	115.00	100	Horizontal	Pass
2	1980.000	48.90	-15.55	68.2	-19.30	Peak	115.00	100	Horizontal	Pass
3**	2772.000	33.02	-10.57	54.0	-20.98	AV	143.00	100	Horizontal	Pass
3	2772.000	45.80	-10.57	74.0	-28.20	Peak	143.00	100	Horizontal	Pass
4**	5754.000	94.88	-2.25	--	94.88	AV	73.00	100	Horizontal	N/A
4	5754.000	101.94	-2.25	--	28.94	Peak	73.00	100	Horizontal	N/A
5**	8411.625	37.09	-1.22	54.0	-16.91	AV	157.00	100	Horizontal	Pass
5	8411.625	48.39	-1.22	74.0	-25.61	Peak	157.00	100	Horizontal	Pass
6**	11888.938	39.45	2.06	54.0	-14.55	AV	0.00	100	Horizontal	Pass
6	11888.938	50.72	2.06	74.0	-23.28	Peak	0.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11ac40 ANT V High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	38.08	-17.71	54.0	-15.92	AV	145.00	100	Vertical	Pass
1	1188.000	52.67	-17.71	74.0	-21.33	Peak	145.00	100	Vertical	Pass
2**	1980.500	42.08	-15.50	--	42.08	AV	200.00	100	Vertical	Pass
2	1980.500	52.18	-15.50	68.2	-16.02	Peak	200.00	100	Vertical	Pass
3**	2772.000	37.65	-10.57	54.0	-16.35	AV	171.00	100	Vertical	Pass
3	2772.000	53.50	-10.57	74.0	-20.50	Peak	171.00	100	Vertical	Pass
4**	5793.000	92.23	-1.94	--	92.23	AV	61.00	100	Vertical	N/A
4	5793.000	99.33	-1.94	--	38.33	Peak	61.00	100	Vertical	N/A
5**	7533.313	37.58	-1.65	54.0	-16.42	AV	216.00	100	Vertical	Pass
5	7533.313	48.21	-1.65	74.0	-25.79	Peak	216.00	100	Vertical	Pass
6**	11499.375	39.43	0.29	54.0	-14.57	AV	327.00	100	Vertical	Pass
6	11499.375	50.40	0.29	74.0	-23.60	Peak	327.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11ac40 ANT H High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	34.19	-17.71	54.0	-19.81	AV	98.00	100	Horizontal	Pass
1	1188.000	47.53	-17.71	74.0	-26.47	Peak	98.00	100	Horizontal	Pass
2**	1980.000	33.73	-15.55	--	33.73	AV	98.00	100	Horizontal	Pass
2	1980.000	48.34	-15.55	68.2	-19.86	Peak	98.00	100	Horizontal	Pass
3**	2772.500	37.06	-10.52	54.0	-16.94	AV	125.00	100	Horizontal	Pass
3	2772.500	46.54	-10.52	74.0	-27.46	Peak	125.00	100	Horizontal	Pass
4**	5796.000	91.11	-1.91	--	91.11	AV	104.00	100	Horizontal	N/A
4	5796.000	102.45	-1.91	--	-1.55	Peak	104.00	100	Horizontal	N/A
5**	7508.875	37.68	-2.23	54.0	-16.32	AV	-1.00	100	Horizontal	Pass
5	7508.875	48.06	-2.23	74.0	-25.94	Peak	-1.00	100	Horizontal	Pass
6**	12278.500	40.03	2.03	54.0	-13.97	AV	253.00	100	Horizontal	Pass
6	12278.500	51.15	2.03	74.0	-22.85	Peak	253.00	100	Horizontal	Pass

1 GHz to 18 GHz, Band IV 11ac80 ANT V Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	38.20	-17.71	54.0	-15.80	AV	119.00	100	Vertical	Pass
1	1188.000	52.48	-17.71	74.0	-21.52	Peak	119.00	100	Vertical	Pass
2**	1980.000	37.07	-15.55	--	37.07	AV	177.00	100	Vertical	Pass
2	1980.000	52.15	-15.55	68.2	-16.05	Peak	177.00	100	Vertical	Pass
3**	2772.000	37.48	-10.57	54.0	-16.52	AV	148.00	100	Vertical	Pass
3	2772.000	52.74	-10.57	74.0	-21.26	Peak	148.00	100	Vertical	Pass
4**	5786.000	87.28	-2.10	--	87.28	AV	136.00	100	Vertical	N/A
4	5786.000	95.40	-2.10	--	-40.60	Peak	136.00	100	Vertical	N/A
5**	7539.062	37.76	-1.68	54.0	-16.24	AV	135.00	100	Vertical	Pass
5	7539.062	48.56	-1.68	74.0	-25.44	Peak	135.00	100	Vertical	Pass
6**	11477.812	38.92	0.20	54.0	-15.08	AV	306.00	100	Vertical	Pass
6	11477.812	50.44	0.20	74.0	-23.56	Peak	306.00	100	Vertical	Pass

1 GHz to 18 GHz, Band IV 11ac80 ANT H Middle channel

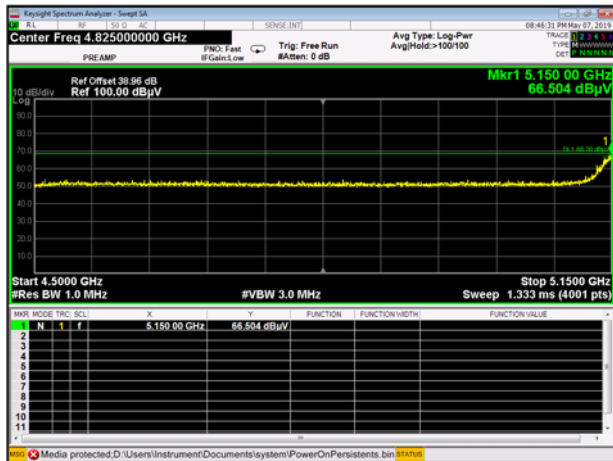
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1188.000	33.25	-17.71	54.0	-20.75	AV	140.00	100	Horizontal	Pass
1	1188.000	48.00	-17.71	74.0	-26.00	Peak	140.00	100	Horizontal	Pass
2**	1980.000	33.83	-15.55	--	33.83	AV	140.00	100	Horizontal	Pass
2	1980.000	48.87	-15.55	68.2	-19.33	Peak	140.00	100	Horizontal	Pass
3**	2772.000	32.98	-10.57	54.0	-21.02	AV	82.00	100	Horizontal	Pass
3	2772.000	47.08	-10.57	74.0	-26.92	Peak	82.00	100	Horizontal	Pass
4**	5765.000	92.51	-1.99	--	92.51	AV	79.00	100	Horizontal	N/A
4	5765.000	99.94	-1.99	--	20.94	Peak	79.00	100	Horizontal	N/A
5**	7552.000	37.80	-1.82	54.0	-16.20	AV	141.00	100	Horizontal	Pass
5	7552.000	48.37	-1.82	74.0	-25.63	Peak	141.00	100	Horizontal	Pass
6**	12472.563	39.58	1.76	54.0	-14.42	AV	358.00	100	Horizontal	Pass
6	12472.563	51.17	1.76	74.0	-22.83	Peak	358.00	100	Horizontal	Pass

A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
Band I	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
Band IV	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass

Test Plots

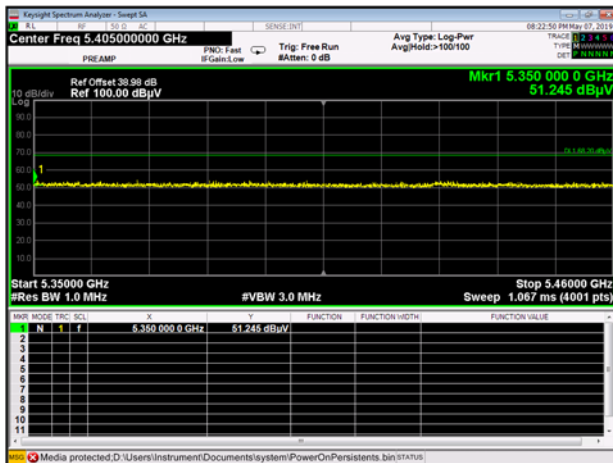
Band I 11a CH36 Peak



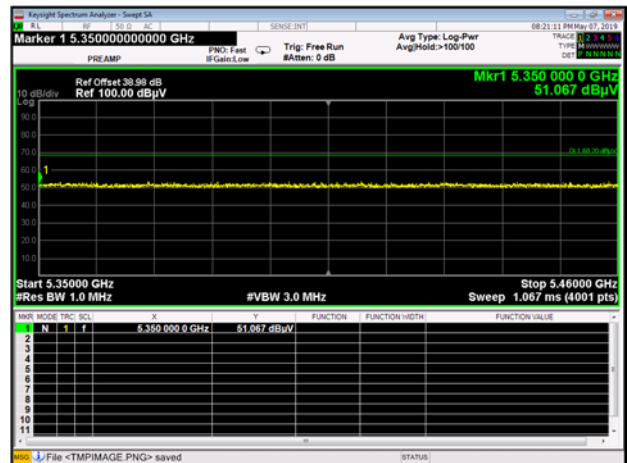
Band I 11a CH36 AV



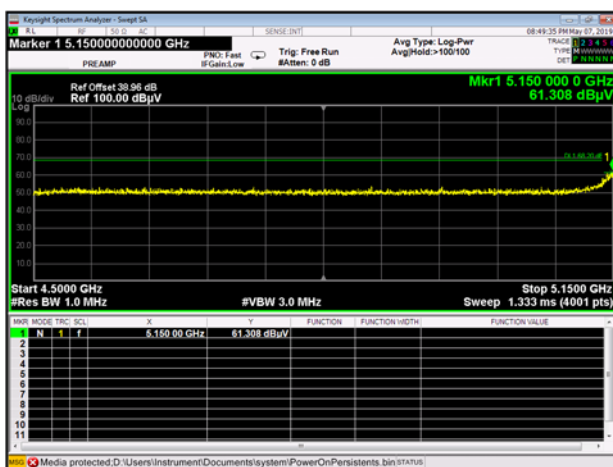
Band I 11a CH48 Peak



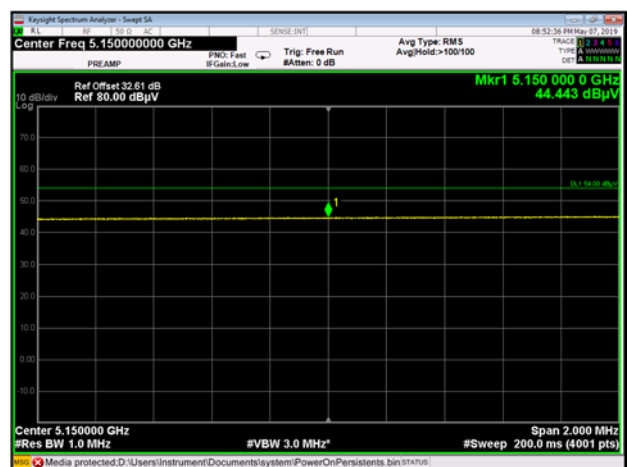
Band I 11a CH48 Peak



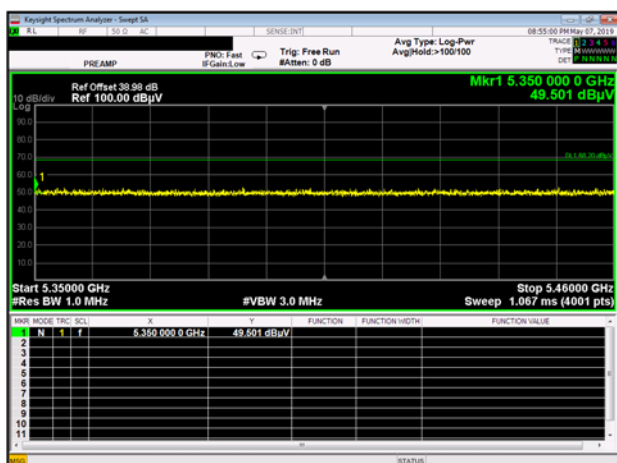
Band I 11n20 CH36 Peak



Band I 11n20 CH36 AV



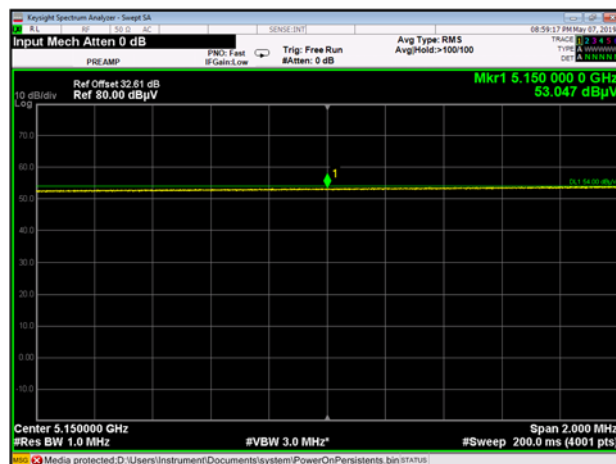
Band I 11n20 CH48 Peak



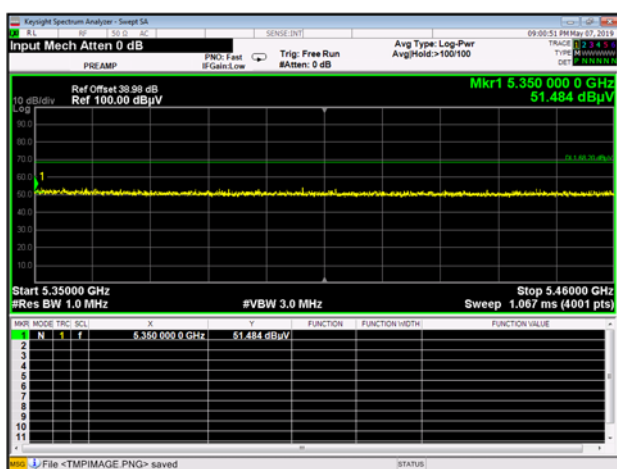
Band I 11n40 CH38 Peak



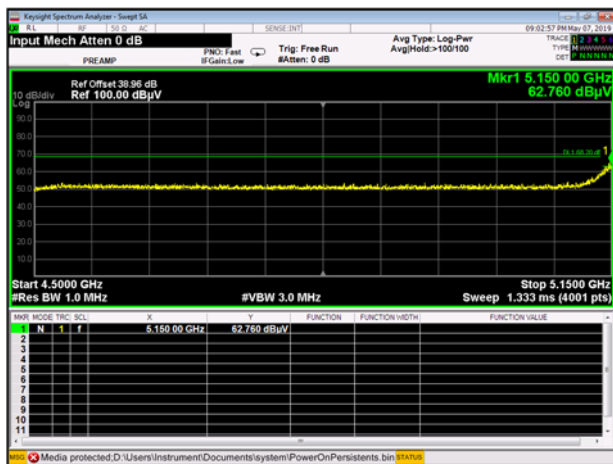
Band I 11n40 CH38 AV



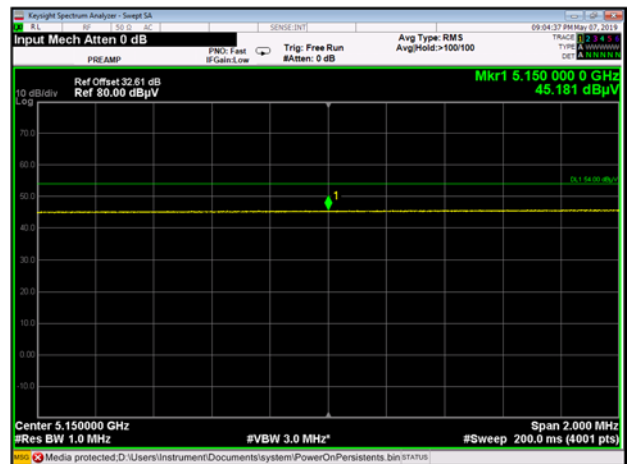
Band I 11n40 CH46 Peak



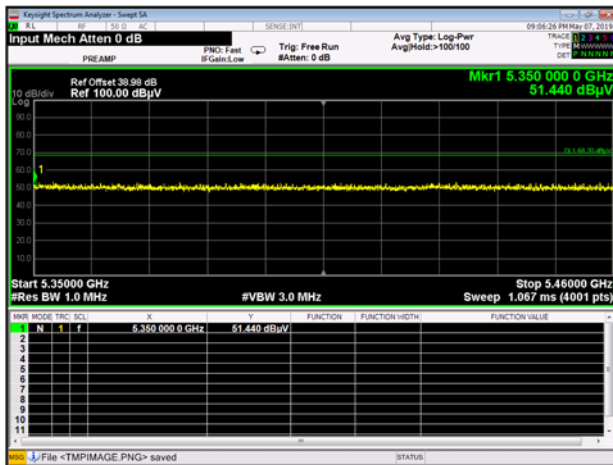
Band I 11ac20 CH36 Peak



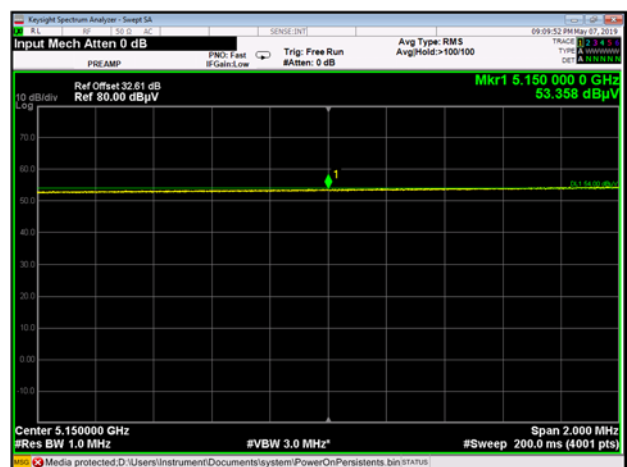
Band I 11ac20 CH36 AV



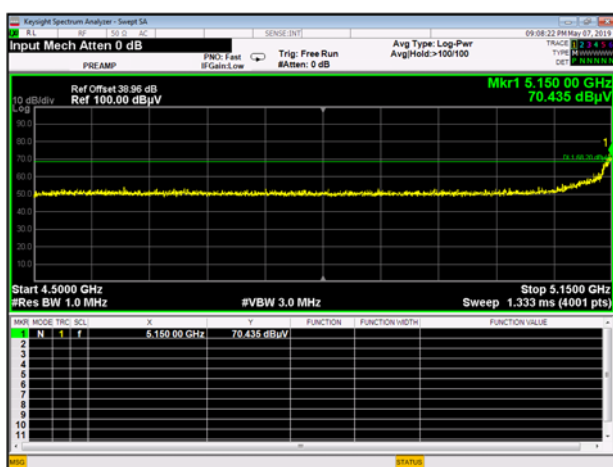
Band I 11ac20 CH48 Peak



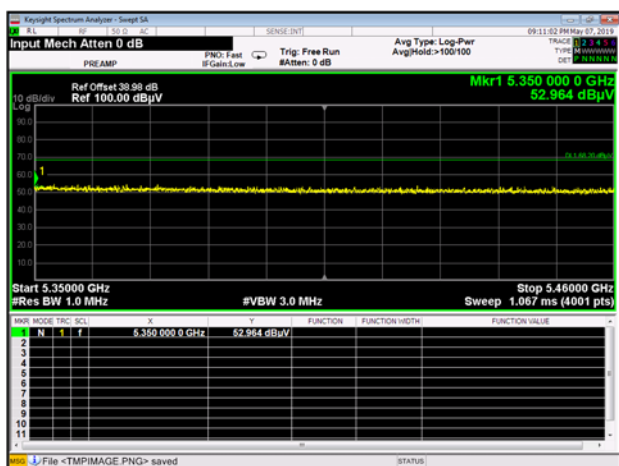
Band I 11ac40 CH38 AV



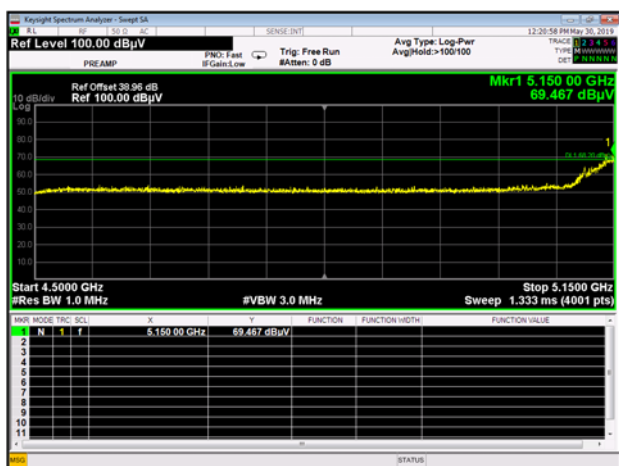
Band I 11ac40 CH38 Peak



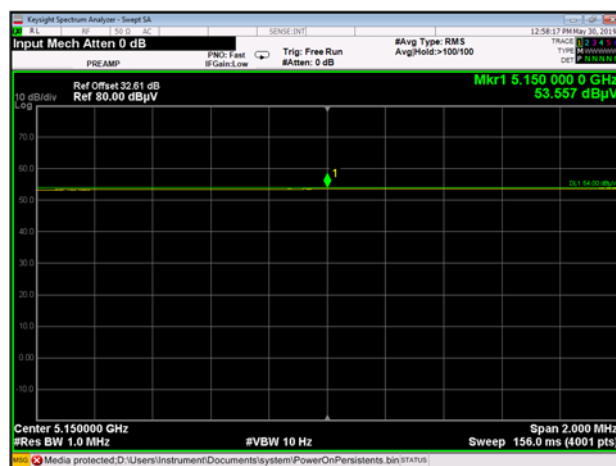
Band I 11ac40 CH46 Peak



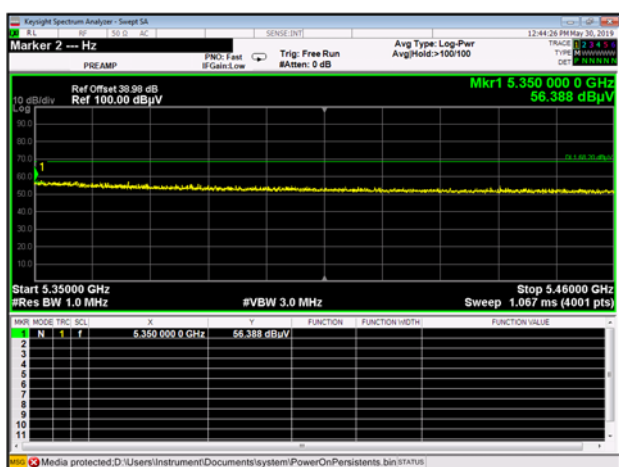
Band I 11ac80 CH42 Peak



Band I 11ac80 CH42 AV



Band I 11ac80 CH42 Peak



Band I 11ac80 CH42A V



Band IV 11a CH149 Peak



Band IV 11a CH165 Peak



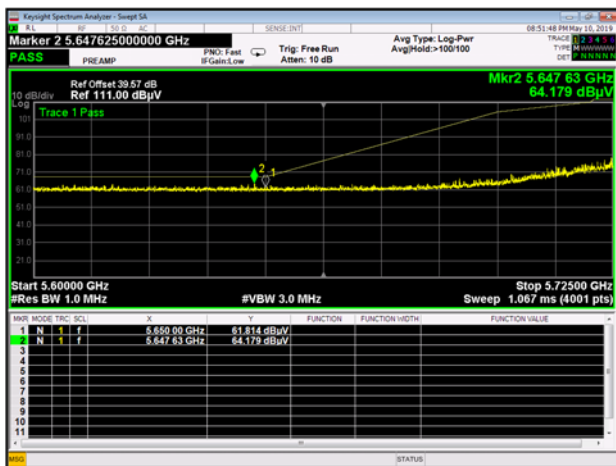
Band IV 11n20 CH149 Peak



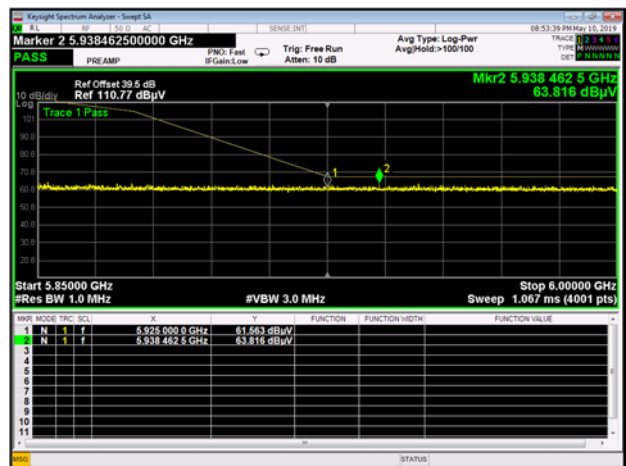
Band IV 11n20 CH165 Peak



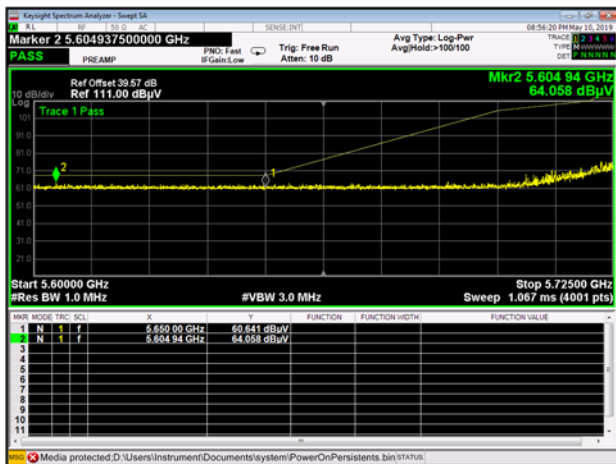
Band IV 11n40 CH151 Peak



Band IV 11n40 CH159 Peak



Band IV 11ac20 CH149 Peak



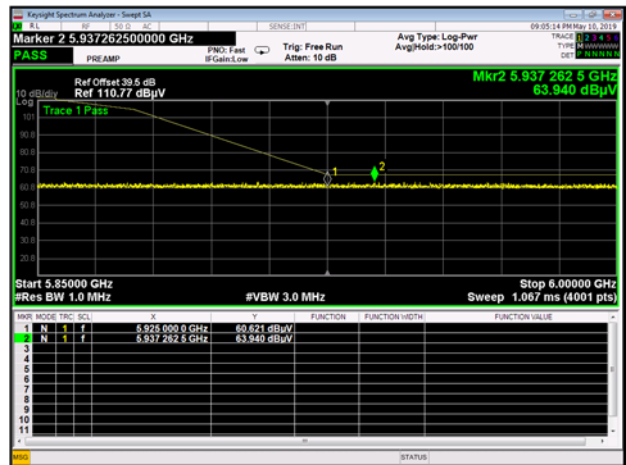
Band IV 11ac20 CH165 Peak



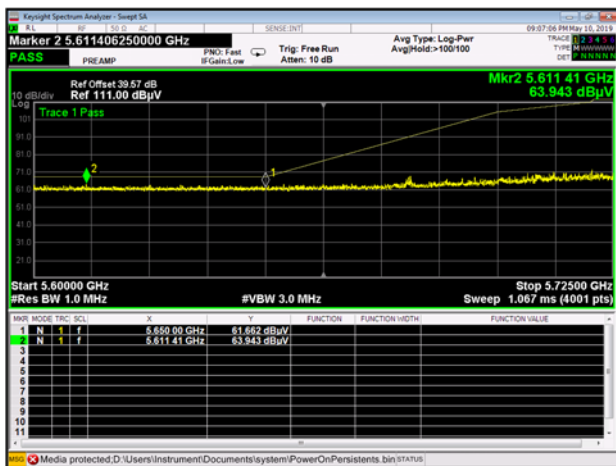
Band IV 11ac40 CH151 Peak



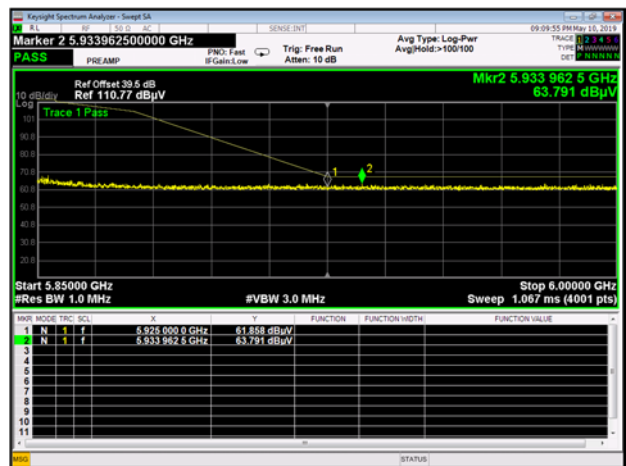
Band IV 11ac40 CH159 Peak



Band IV 11ac80 CH155 Peak



Band IV 11ac80 CH155 Peak



A.7 Frequency Stability

Voltage vs. Frequency Stability (5180 MHz)

Test Conditions		Test Frequency (MHz)	0 Minute		2 Minute		5 Minute		10Minute	
TEMP. (°C)	Voltage (VDC)		Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)
20	11.4	5180	5179.980356	-3.79	5179.961533	-7.43	5179.952888	-9.09	5179.972751	-5.26
	12	5180	5180.01948	3.76	5180.01071	2.07	5180.006097	1.18	5180.045667	8.82
	12.6	5180	5180.047816	9.23	5180.003451	0.67	5180.015787	3.05	5180.034931	6.74

Temperature vs. Frequency Stability (5180 MHz)

Test Conditions		Test Frequency (MHz)	0 Minute		2 Minute		5 Minute		10Minute	
Voltage (VDC)	TEMP. (°C)		Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)
12	-20	5180	5179.994672	-1.03	5179.971116	-5.58	5179.950893	-9.48	5179.978363	-4.18
	-10	5180	5180.018766	3.62	5180.021949	4.24	5180.023311	4.50	5180.02281	4.40
	0	5180	5180.035195	6.79	5180.007617	1.47	5180.019225	3.71	5180.020744	4.00
	10	5180	5180.028041	5.41	5180.030931	5.97	5180.016922	3.27	5180.049821	9.62
	20	5180	5179.998389	-0.31	5179.954272	-8.83	5179.974261	-4.97	5179.992722	-1.41
	30	5180	5180.003989	0.77	5180.044397	8.57	5180.00654	1.26	5180.048488	9.36
	40	5180	5180.004452	0.86	5180.044262	8.54	5180.029451	5.69	5180.002333	0.45

Voltage vs. Frequency Stability (5745 MHz)

Test Conditions		Test Frequency (MHz)	0 Minute		2 Minute		5 Minute		10Minute	
TEMP. (°C)	Voltage (VDC)		Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)
20	11.4	5745	5744.980968	-3.31	5744.951971	-8.36	5744.97805	-3.82	5744.964928	-6.10
	12	5745	5745.022237	3.87	5745.0377	6.56	5745.028793	5.01	5745.005737	1.00
	12.6	5745	5745.018388	3.20	5745.000814	0.14	5745.008154	1.42	5745.041655	7.25

Temperature vs. Frequency Stability (5745 MHz)

Test Conditions		Test Frequency (MHz)	0 Minute		2 Minute		5 Minute		10Minute	
Voltage (VDC)	TEMP. (°C)		Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Measurement Frequency (MHz)	Max. Deviation (ppm)
12	-20	5745	5744.971286	-5.00	5744.954866	-7.86	5744.965734	-5.96	5744.986666	-2.32
	-10	5745	5745.033084	5.76	5745.026126	4.55	5745.020022	3.49	5745.039375	6.85
	0	5745	5745.027826	4.84	5745.005984	1.04	5745.034654	6.03	5745.045339	7.89
	10	5745	5745.009775	1.70	5745.040185	6.99	5745.014808	2.58	5745.007912	1.38
	20	5745	5744.956294	-7.61	5744.960455	-6.88	5744.954653	-7.89	5744.964857	-6.12
	30	5745	5745.000882	0.15	5745.035425	6.17	5745.03766	6.56	5745.046262	8.05
	40	5745	5745.027666	4.82	5745.025695	4.47	5745.026513	4.61	5745.019364	3.37

ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-HK1940235-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-HK1940235-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-HK1940235-AI.PDF".

--END OF REPORT--