FCC RF TEST REPORT

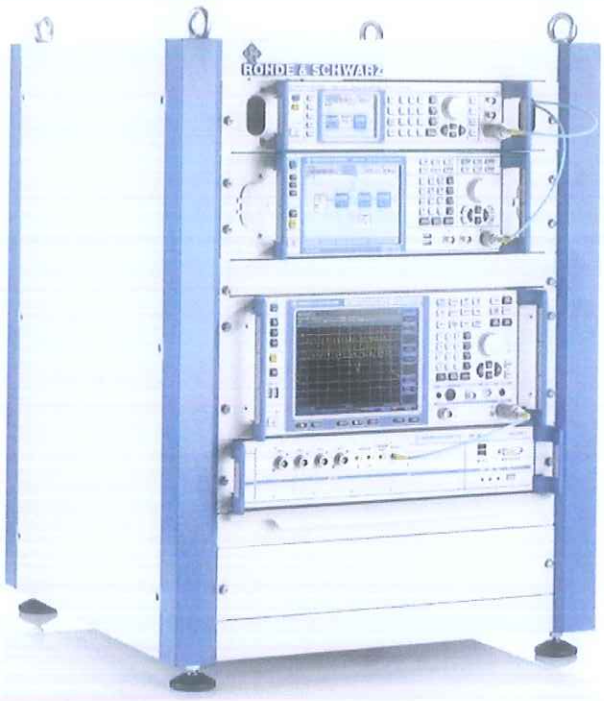
ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

Gee Chain X

ISSUED TO
Beijing Geek-geek Technology Co., Ltd.

Haidian Street No. 3 Building 1 1201-A1219/1201-A1220, Haidian District, No. 11, 1002, Beijing



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Date Apr. 23, 2018

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Date Apr. 23, 2018

Report No.:	BL-SZ1810291-602
EUT Name:	Gee Chain X
Model Name:	C526AW
Brand Name:	HIWIFI
Test Standard:	47 CFR Part 15 Subpart E
FCC ID:	2AOXH-GJAN182018002
Test Conclusion:	Pass
Test Date:	Mar. 21, 2018 ~ Apr. 08, 2018
Date of Issue:	Apr. 23, 2018

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Apr. 17, 2018	Initial Issue
Rev. 02	Apr. 23, 2018	Update the product type on page 6,revise the array gain and directional gain of PSD on page 6.update the limit of PSD on page 19.update the note and the Limit on page 32/33

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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℃ to 25℃
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 v4.2.

(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	Beijing Geek-geek Technology Co., Ltd.
Address	Haidian Street No. 3 Building 1 1201-A1219/1201-A1220, Haidian District, No. 11, 1002, Beijing

2.2 Manufacturer

Manufacturer	Beijing Geek-geek Technology Co., Ltd.
Address	Haidian Street No. 3 Building 1 1201-A1219/1201-A1220, Haidian District, No. 11, 1002, Beijing

2.3 Factory

Factory	Shenzhen Phoenix Telecom Technology Co., Ltd
Address	West of FuYuan 1st Road, Fuyong street, Baoan District, ShenZhen, Guangdong, China.

2.4 General Description for Equipment under Test (EUT)

EUT Name	Gee Chain X
Model Name Under Test	C526AW
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	C526A-V1
Software Version	1.4.10
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Ancillary Equipment 1	Adapter	
	Brand Name	RUIJING
	Model No.	RJT-AS120250U301
	Serial No.	N/A
	Rated Input	100-240 V~, 50 / 60 Hz, 1000 mA
	Rated Output	12.0 V⎓ 2500 mA

2.6 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac

Frequency Range		Band I: 5150 MHz to 5250 MHz, Band IV: 5725 MHz to 5850 MHz
Modulation technology		OFDM
Modulation Type		256QAM, 64QAM, 16QAM, BPSK, QPSK
Product Type		☒ Indoor Access Point
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: 20.03 dBm Band IV: 26.22 dBm
Antenna System (eg., MIMO, Smart Antenna)		Cyclic Delay Diversity (CDD)
Categorization as Correlated or Completely Uncorrelated		Correlated
Antenna Type	Antenna 0 (ANT 0)	Dipole Antenna
	Antenna 1 (ANT 1)	
Antenna Gain	Antenna 0 (ANT 0)	Band I: 5150 MHz to 5250 MHz: 5 dBi Band IV: 5725 MHz to 5850 MHz: 5 dBi
	Antenna 1 (ANT 1)	Band I: 5150 MHz to 5250 MHz: 5 dBi Band IV: 5725 MHz to 5850 MHz: 5 dBi
Total directional gain	For power spectral density(PSD) measurements	Band I: 5150 MHz to 5250 MHz: 8 dBi Band IV: 5725 MHz to 5850 MHz: 8 dBi Formulas: Directional gain = GANT + Array Gain, *Array Gain = 10 log(NANT/NSS) dB*. *NSS* =1, ,Array gain =10*log(2/1)=3dB.GANT set equal to the gain of the antenna having the highest gain. GANT=5dBi. So Directional gain = GANT + Array Gain=5+3=8dBi
	For power measurements	Band I: 5150 MHz to 5250 MHz: 5 dBi Band IV: 5725 MHz to 5850 MHz: 5 dBi Formulas: Directional gain = GANT + Array Gain, *Array Gain* = 0.so Directional gain=5+0=5dBi.
About the Product		The equipment is Gee Chain X, intended for used with information technology equipment.

2.7 Additional Instructions

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.

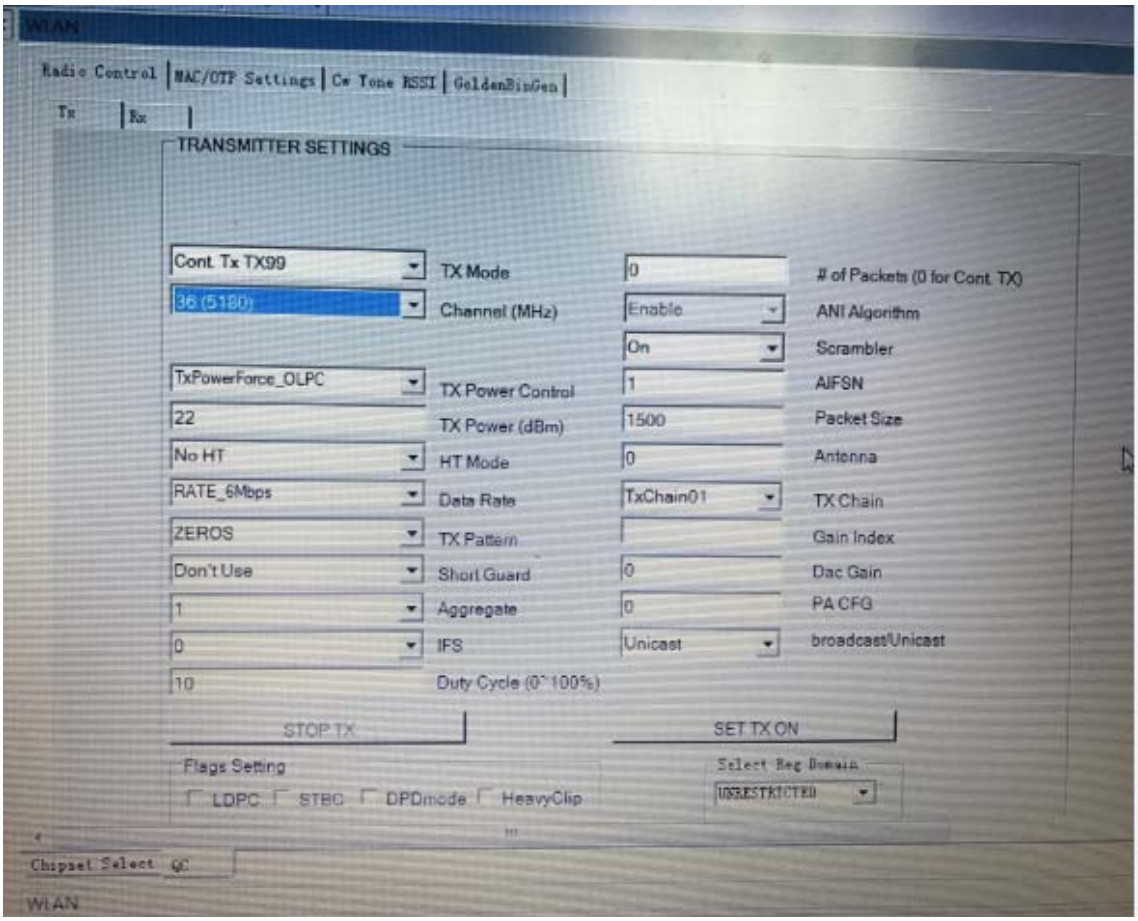
EUT Software Settings:

Test Software Version	QRCT

Band I (5150 - 5250 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH36	5180	12
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	17
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



2.8 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(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(80 MHz)	VHT-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(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(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(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(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(80 MHz)	MCS0		42	155
Frequency Stability	Unmodulated	N/A	N/A	N/A	N/A

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E (10-1-16 Edition)	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	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	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	Conducted Spurious Emission and Band Edge (Authorized-band)	15.407(b) 15.209	ANNEX A.6	Pass
8	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.7	Pass
9	Frequency Stability	15.407(g)	ANNEX A.8	Pass
10	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℃ to +25℃
	LT (Low Temperature)	-0℃
	HT (High Temperature)	+40℃
Working Voltage of the EUT	NV (Normal Voltage)	120 V
	LV (Low Voltage)	110 V
	HV (High Voltage)	130 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2017.06.12	2018.06.11
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2017.06.12	2018.06.11
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2017.09.07	2018.09.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2017.06.22	2018.06.21
LISN	SCHWARZBECK	NSLK 8127	8127-687	2017.06.22	2018.06.21
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2017.06.12	2018.06.11
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2017.06.12	2018.06.11
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2017.06.22	2018.06.21
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2017.06.22	2018.06.21
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.06.22	2018.06.21
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2017.11.07	2019.11.08
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2017.07.22	2019.07.21
Test Antenna-Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2016.07.12	2018.07.11
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2017.01.07	2019.01.06
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2019.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2016.08.09	2018.08.08
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2017.06.12	2018.06.11
Power Amplifier	OPHIR RF	5225F	1037	2018.02.17	2019.02.16

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Power Amplifier	OPHIR RF	5273F	1016	2018.02.17	2019.02.16
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	2017.05.22	2018.05.21
Mouth Simulator	B&K	4227	2423931	2017.11.16	2018.11.15
Sound Calibrator	B&K	4231	2430337	2017.11.16	2018.11.15
Sound Level Meter	B&K	NL-20	00844023	2017.11.16	2018.11.15
Ear Simulator	B&K	4185	2409449	2017.11.16	2018.11.15
Ear Simulator	B&K	4195	2418189	2017.11.16	2018.11.15
Audio analyzer	B&K	UPL 16	100129	2017.11.16	2018.11.15

4.3 Measurement Uncertainty

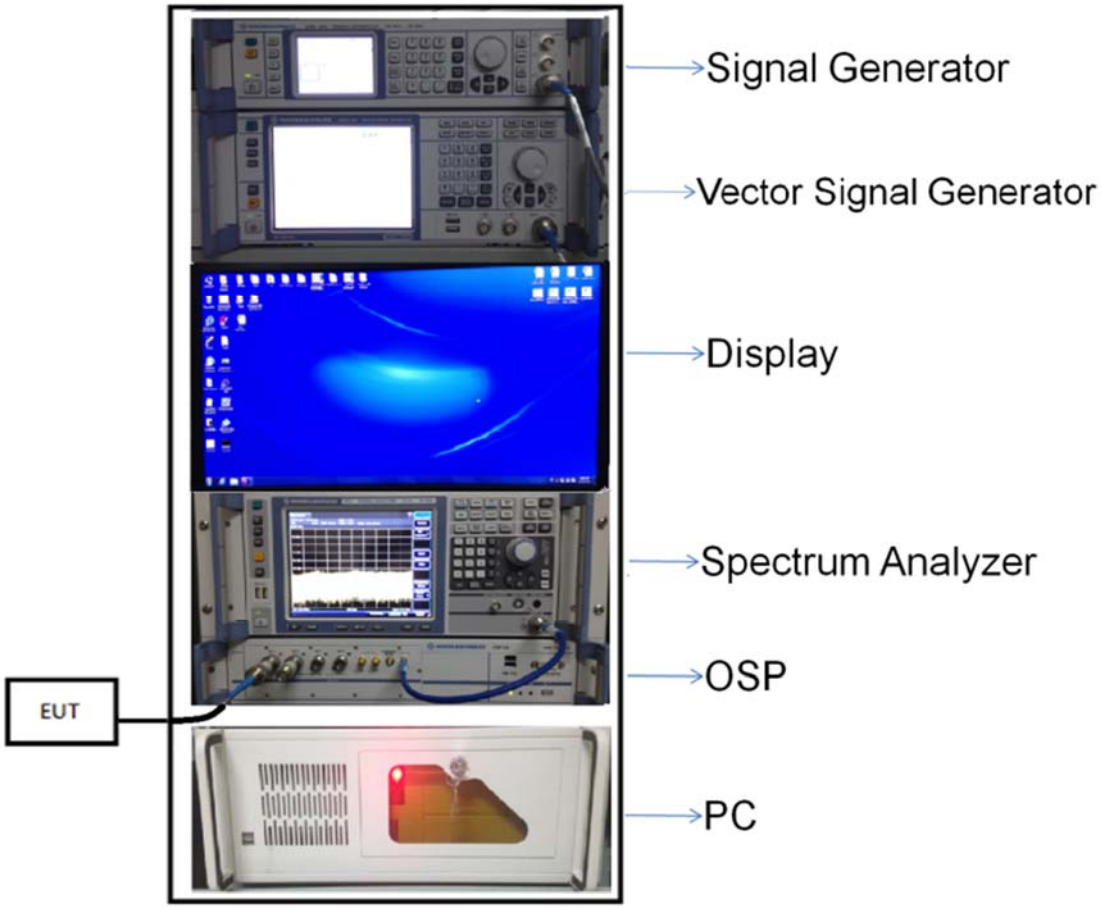
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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%

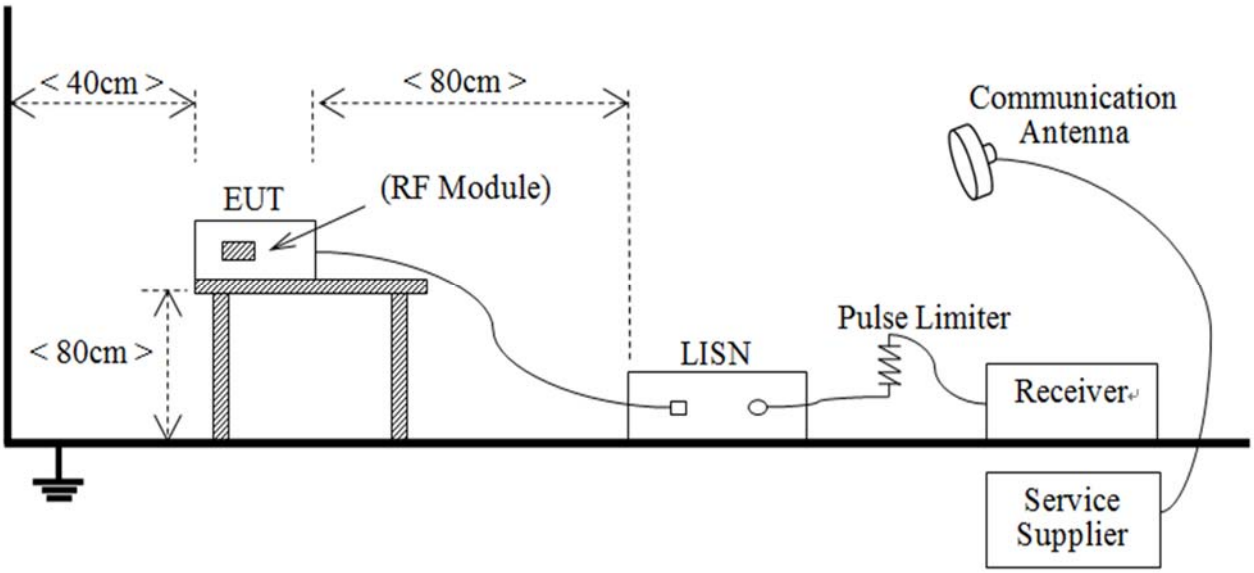
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



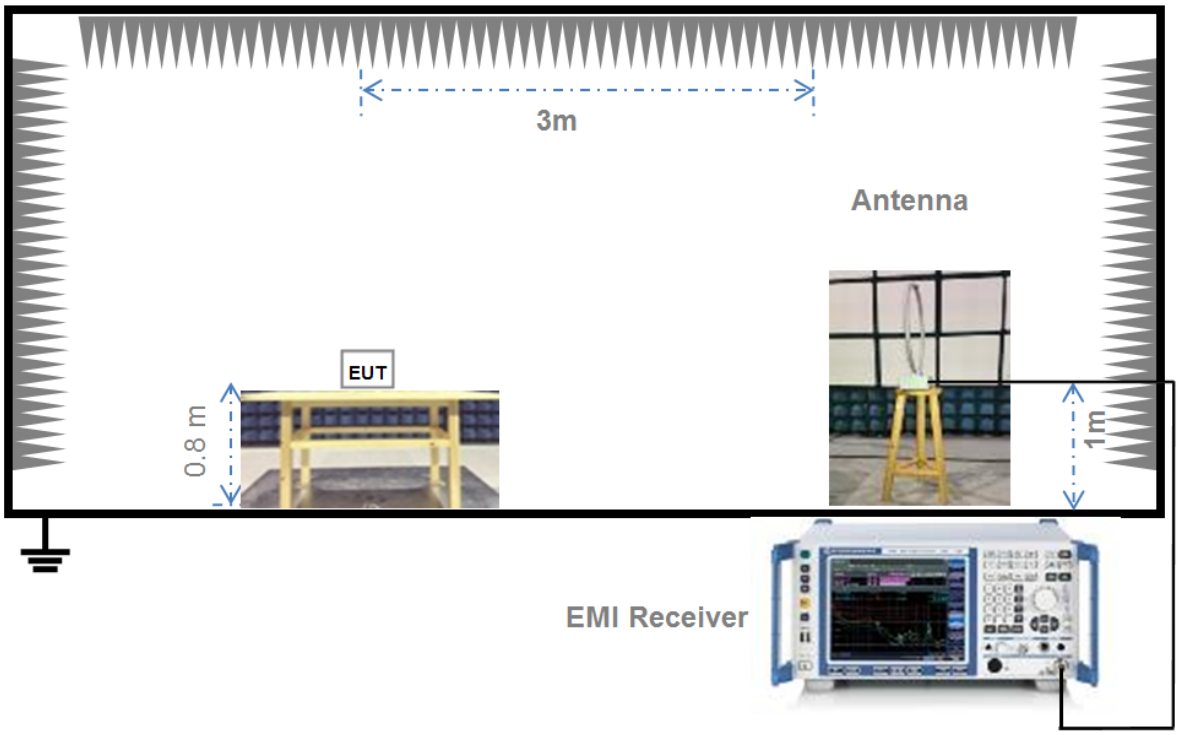
(Diagram 1)

4.4.2 For AC Power Supply Port Test



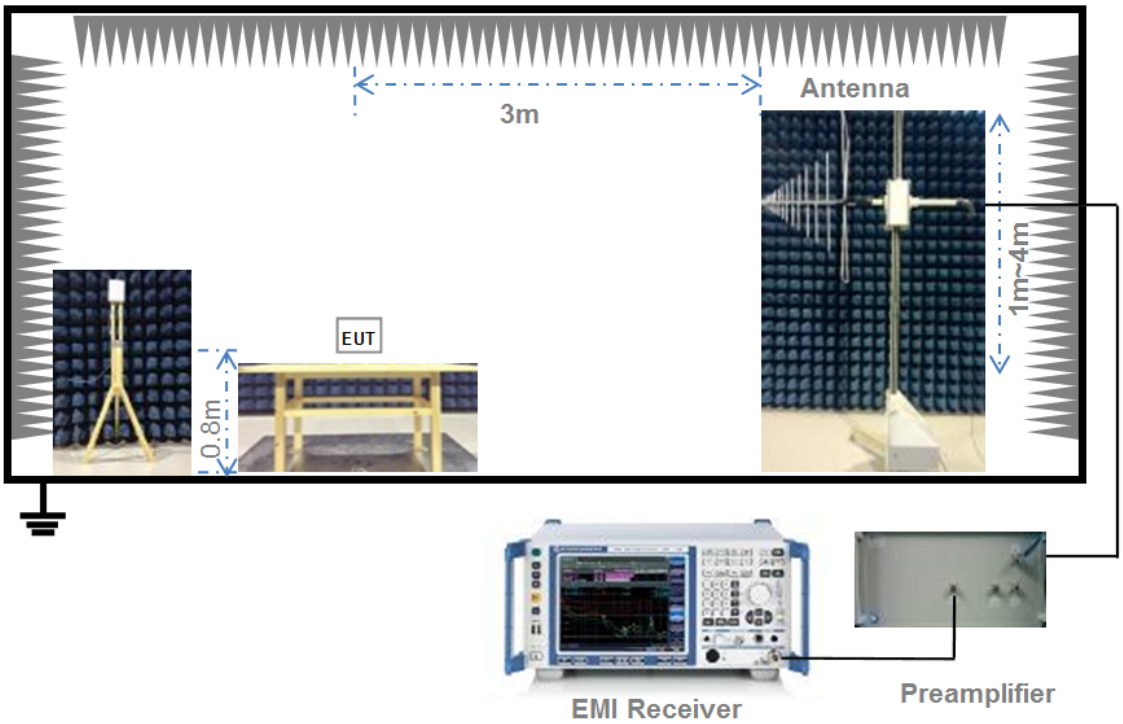
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



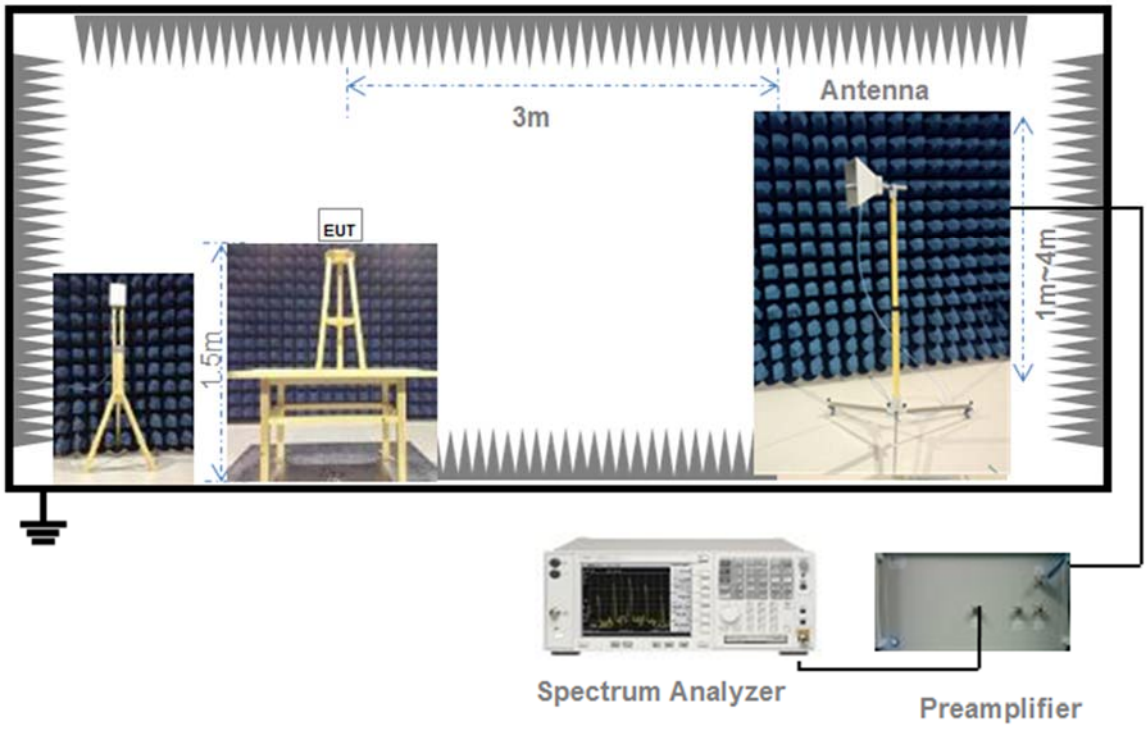
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



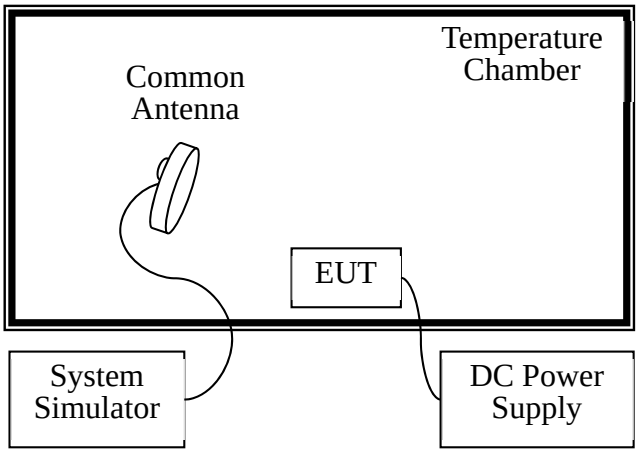
(Diagram 4)

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 ≥ 3*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 ≥ 3*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	17 dBm/MHz
5725-5850	30 dBm/500kHz

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 ≥ 3*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 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	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.

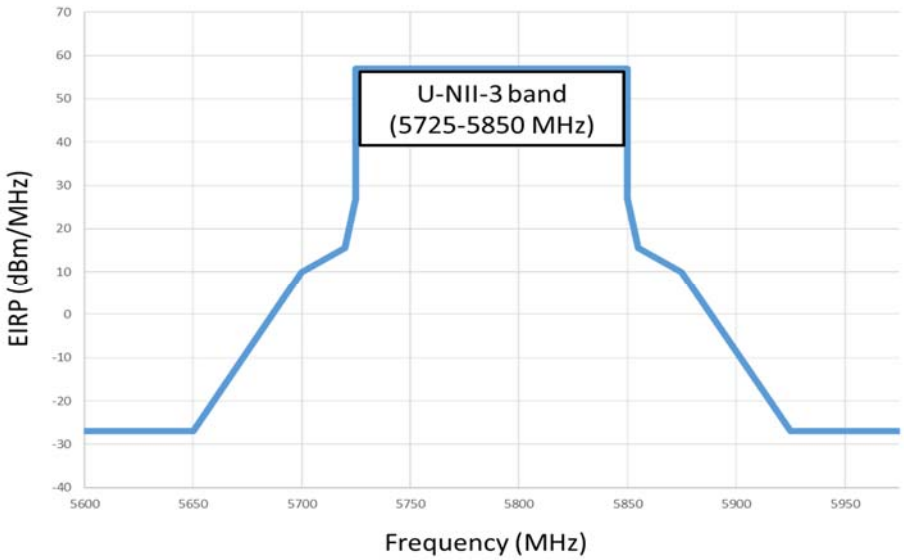
5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Conducted Spurious Emission and Band Edge (Authorized-band)

5.5.1 Limit

FCC §15.407(b)

Un-restricted band emissions	
Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
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. 

RSS-247, 6.2

Un-restricted band emissions	
Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm, However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz.
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm. And any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of 10 dBm/MHz, The device shall be labelled “for indoor use only.”
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
5725 - 5850	5715 -5725 MHz: e.i.r.p. -17 dBm 5850 -5860 MHz: e.i.r.p. -17 dBm Other un-restricted band: e.i.r.p .-27 dBm

5.5.2 Test Setup

See section 4.4.2 (Diagram 2) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Allow the trace to stabilize

5.5.4 Test Result

Please refer to ANNEX A.6.

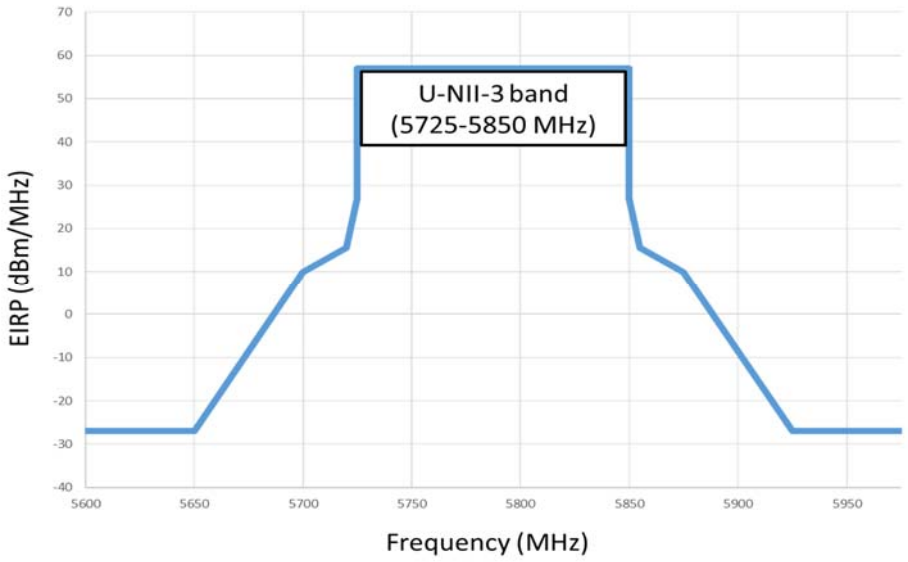
5.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

5.6.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

Frequency (MHz)	Field Strength (μV/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

Note [1]: The Limit for radiated test was performed according to FCC Part 15C
Note [2]: 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.

5.6.2 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.

5.6.3 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:

$E = EIRP – 20\log D + 104.8$

where:

E = electric field strength in dBμV/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 ≥ 3 x 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 ≥ 3 x RBW.

e) Detector = RMS, if span/(# of points in sweep) ≤ (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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

5.6.4 Test Result

Please refer to ANNEX A.7 and Please refer to ANNEX A.9

5.7 Frequency Stability

5.7.1 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.

5.7.2 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.

5.7.3 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.

5.7.4 Test Result

Please refer to ANNEX A.8.

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 0 (dBm)	Conducted Power 1 (dBm)	Conducted Power Total (dBm)	Conducted Power Total (mW)	FCC Limit (mW)	Verdict
11a	CH36	5180	18.62	19.13	/	/	250.00	Pass
11a	CH44	5220	18.71	20.03	/	/	250.00	Pass
11a	CH48	5240	18.81	19.93	/	/	250.00	Pass
11n (HT20)	CH36	5180	18.84	19.36	22.12	162.86	250.00	Pass
11n (HT20)	CH44	5220	18.92	19.30	22.12	163.09	250.00	Pass
11n (HT20)	CH48	5240	19.00	19.15	22.09	161.65	250.00	Pass
11n (HT40)	CH38	5190	18.48	18.54	21.52	141.92	250.00	Pass
11n (HT40)	CH46	5230	18.79	18.98	21.90	154.75	250.00	Pass
11ac (VHT20)	CH36	5180	18.83	18.40	21.63	145.56	250.00	Pass
11ac (VHT20)	CH44	5220	18.95	19.33	22.15	164.22	250.00	Pass
11ac (VHT20)	CH48	5240	19.05	19.17	22.12	162.95	250.00	Pass
11ac (VHT40)	CH38	5190	18.46	18.53	21.51	141.44	250.00	Pass
11ac (VHT40)	CH46	5230	18.77	18.98	21.89	154.41	250.00	Pass
11ac (VHT80)	CH42	5210	18.65	18.77	21.72	148.62	250.00	Pass

Band IV (5725 - 5850 MHz)								
Mode	Channel	Frequency (MHz)	Conducted Power 0 (dBm)	Conducted Power 1 (dBm)	Conducted Power Total (dBm)	Conducted Power Total (mW)	FCC/IC Limit (W)	Verdict
11a	CH149	5745	26.05	25.91	/	/	1.00	Pass
11a	CH157	5785	25.78	25.72	/	/	1.00	Pass
11a	CH165	5825	25.94	25.98	/	/	1.00	Pass
11n (HT20)	CH149	5745	26.17	26.19	29.19	829.91	1.00	Pass
11n (HT20)	CH157	5785	25.94	25.93	28.95	784.38	1.00	Pass
11n (HT20)	CH165	5825	26.20	26.16	29.19	829.92	1.00	Pass
11n (HT40)	CH151	5755	25.96	25.92	28.95	785.30	1.00	Pass
11n (HT40)	CH159	5795	25.51	25.50	28.52	710.44	1.00	Pass
11ac (VHT20)	CH149	5745	26.22	26.14	29.19	829.94	1.00	Pass
11ac (VHT20)	CH157	5785	25.97	25.93	28.96	787.11	1.00	Pass
11ac (VHT20)	CH165	5825	26.14	26.18	29.17	826.10	1.00	Pass
11ac (VHT40)	CH151	5755	25.94	25.89	28.93	780.79	1.00	Pass
11ac (VHT40)	CH159	5795	25.54	25.43	28.50	707.24	1.00	Pass
11ac (VHT80)	CH155	5775	25.92	25.81	28.88	771.91	1.00	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ1810291-602 Data Part 1.pdf”.

Test Data

Band I (5150 - 5250 MHz)						
Mode	Channel	Frequency	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
		(MHz)	ANT0	ANT1	ANT0	ANT1
11a	CH36	5180	19.16	19.16	16.38	16.44
11a	CH44	5220	19.16	19.08	16.44	16.44
11a	CH48	5240	19.16	19.20	16.44	16.38
11n (HT20)	CH36	5180	19.92	19.88	17.60	17.60
11n (HT20)	CH44	5220	19.96	19.92	17.60	17.60
11n (HT20)	CH48	5240	19.92	19.88	17.60	17.60
11n (HT40)	CH38	5190	39.70	39.80	36.00	35.89
11n (HT40)	CH46	5230	39.60	39.70	35.89	36.00
11ac (VHT20)	CH36	5180	20.00	20.08	17.60	17.60
11ac (VHT20)	CH44	5220	20.00	20.00	17.60	17.60
11ac (VHT20)	CH48	5240	19.92	20.00	17.60	17.60
11ac (VHT40)	CH38	5190	40.00	39.80	36.00	35.89
11ac (VHT40)	CH46	5230	39.70	39.80	36.00	36.00
11ac (VHT80)	CH42	5210	81.40	81.40	75.72	75.95

Band IV (5725 - 5850 MHz)				
Mode	Channel	Frequency	99% Bandwidth (MHz)	
		(MHz)	ANT0	ANT1
11a	CH149	5745	16.38	16.38
11a	CH157	5785	16.38	16.38
11a	CH165	5825	16.38	16.38
11n (HT20)	CH149	5745	17.54	16.54
11n (HT20)	CH157	5785	17.60	17.60
11n (HT20)	CH165	5825	17.54	17.54
11n (HT40)	CH151	5755	35.89	35.89
11n (HT40)	CH159	5795	36.00	36.00
11ac (VHT20)	CH149	5745	17.54	17.54
11ac (VHT20)	CH157	5785	17.60	17.60
11ac (VHT20)	CH165	5825	17.54	17.54
11ac (VHT40)	CH151	5755	35.89	35.89
11ac (VHT40)	CH159	5795	35.89	36.00
11ac (VHT80)	CH155	5775	75.72	75.95

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ1810291-602 Data Part 2.pdf”.

Test Data

Band IV (5725 - 5850 MHz)						
Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Limit (kHz)	Verdict
			ANT0	ANT1		
11a	CH149	5745	16.42	16.42	500.00	Pass
11a	CH157	5785	16.57	16.42	500.00	Pass
11a	CH165	5825	16.42	16.57	500.00	Pass
11n (HT20)	CH149	5745	17.82	17.82	500.00	Pass
11n (HT20)	CH157	5785	17.72	17.77	500.00	Pass
11n (HT20)	CH165	5825	17.67	17.77	500.00	Pass
11n (HT40)	CH151	5755	36.42	36.02	500.00	Pass
11n (HT40)	CH159	5795	36.42	36.42	500.00	Pass
11ac (VHT20)	CH149	5745	17.82	17.72	500.00	Pass
11ac (VHT20)	CH157	5785	17.67	17.82	500.00	Pass
11ac (VHT20)	CH165	5825	17.72	17.72	500.00	Pass
11ac (VHT40)	CH151	5755	33.87	36.42	500.00	Pass
11ac (VHT40)	CH159	5795	35.77	36.52	500.00	Pass
11ac (VHT80)	CH155	5775	76.52	76.47	500.00	Pass

A.4 Power Spectral Density

Note1: Test plots please refer to the document “Annex No.: BL-SZ1810291-602 Data Part 3.pdf”.

Note2: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band of the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For IC standard, if transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density of band IV (5725 - 5850 MHz) shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For PSD limit in band 5150-5250 is 17-(8-6)=15 dBm/MHz. For PSD limit in band 5725-5850MHz is 30-(8-6)=28 dBm/MHz

Test Data

Band I (5150 - 5250 MHz)							
Note [1]: Transmitting antennas of directional gain in Band I(5150 MHz to 5250 MHz) is 8 dBi Formulas: Directional gain = GANT + Array Gain, *Array Gain* = 10 log(NANT/NSS) dB. NSS =1,. Directional gain=8dBi. Note [2]: The total PSD method used the sum spectra maxima across the outputs.							
Mode	Channel	Frequency (MHz)	PSD at ant 0 (dBm/MHz)	PSD at ant 1 (dBm/MHz)	Total PSD (dBm/MHz)	FCC Limit(dBm/MHz)	Verdict
11a	CH36	5180	6.66	6.27	/	15.00	Pass
11a	CH44	5220	7.06	7.13	/	15.00	Pass
11a	CH48	5240	6.64	6.73	/	15.00	Pass
11n (HT20)	CH36	5180	6.27	7.76	10.09	15.00	Pass
11n (HT20)	CH44	5220	7.28	6.78	10.05	15.00	Pass
11n (HT20)	CH48	5240	8.17	6.75	10.53	15.00	Pass
11n (HT40)	CH38	5190	3.48	3.82	6.66	15.00	Pass
11n (HT40)	CH46	5230	3.50	4.22	6.89	15.00	Pass
11ac (VHT20)	CH36	5180	8.23	6.09	10.30	15.00	Pass
11ac (VHT20)	CH44	5220	7.40	7.79	10.61	15.00	Pass
11ac (VHT20)	CH48	5240	6.81	7.18	10.01	15.00	Pass
11ac (VHT40)	CH38	5190	3.55	3.40	6.49	15.00	Pass
11ac (VHT40)	CH46	5230	3.96	4.42	7.21	15.00	Pass
11ac (VHT80)	CH42	5210	-0.07	0.49	3.23	15.00	Pass

Band IV (5725 - 5850 MHz)							
Note [3]: Transmitting antennas of directional gain in Band III (5470 MHz to 5725 MHz) is 8 dBi Formulas: Directional gain = GANT + Array Gain, *Array Gain* = 10 log(NANT/NSS) dB. NSS =1,. Directional gain=8dBi. Note [4]: The total PSD method used the sum spectra maxima across the outputs.							
Mode	Channel	Frequency (MHz)	PSD at ant 0 (dBm/MHz)	PSD at ant 1 (dBm/MHz)	Total PSD (dBm/MHz)	FCC/IC Limit(dBm/ 500 kHz)	Verdict
11a	CH149	5745	9.89	9.81	/	28.00	Pass
11a	CH157	5785	9.50	9.55	/	28.00	Pass
11a	CH165	5825	9.76	9.95	/	28.00	Pass
11n (HT20)	CH149	5745	10.27	10.26	13.28	28.00	Pass
11n (HT20)	CH157	5785	10.15	10.13	13.15	28.00	Pass
11n (HT20)	CH165	5825	10.37	10.28	13.34	28.00	Pass
11n (HT40)	CH151	5755	1.63	2.00	4.83	28.00	Pass
11n (HT40)	CH159	5795	0.56	0.96	3.77	28.00	Pass
11ac (VHT20)	CH149	5745	10.31	10.23	13.28	28.00	Pass
11ac (VHT20)	CH157	5785	10.15	9.80	12.99	28.00	Pass
11ac (VHT20)	CH165	5825	10.26	10.28	13.28	28.00	Pass
11ac (VHT40)	CH151	5755	2.02	1.04	4.57	28.00	Pass
11ac (VHT40)	CH159	5795	1.00	0.20	3.63	28.00	Pass
11ac (VHT80)	CH155	5775	2.54	2.25	5.41	28.00	Pass

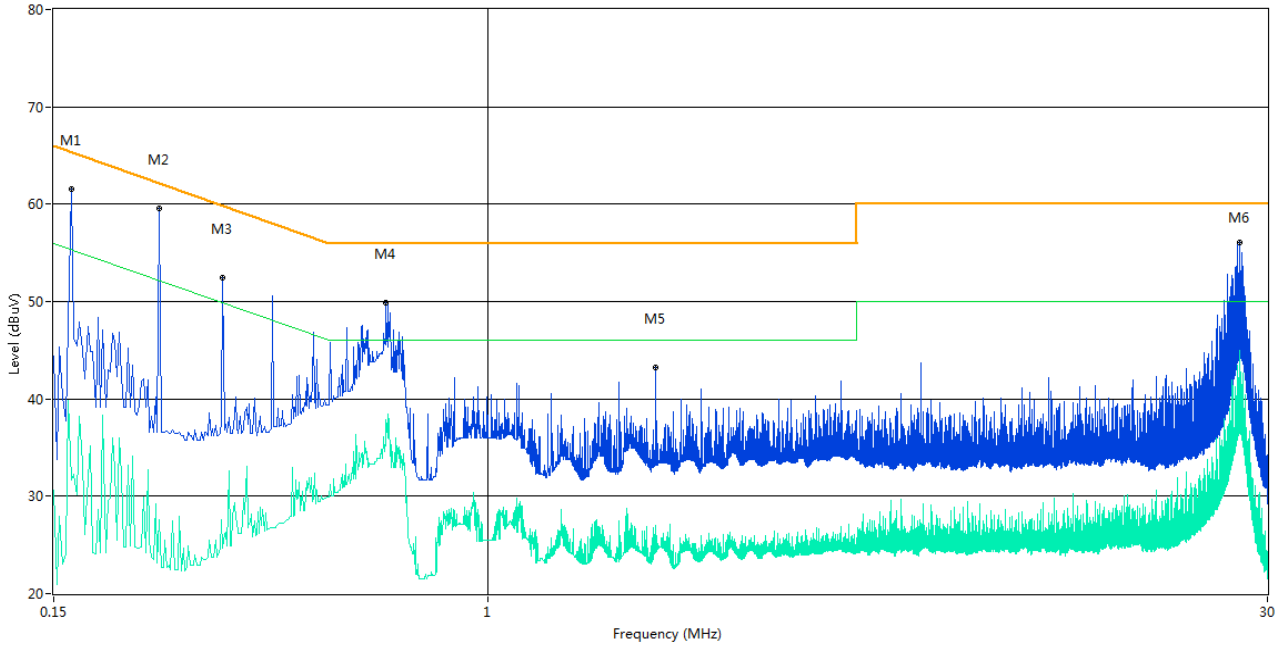
A.5 Conducted Emissions

Note [1]: The EUT is working in the Normal link mode.

Note [2]: 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.

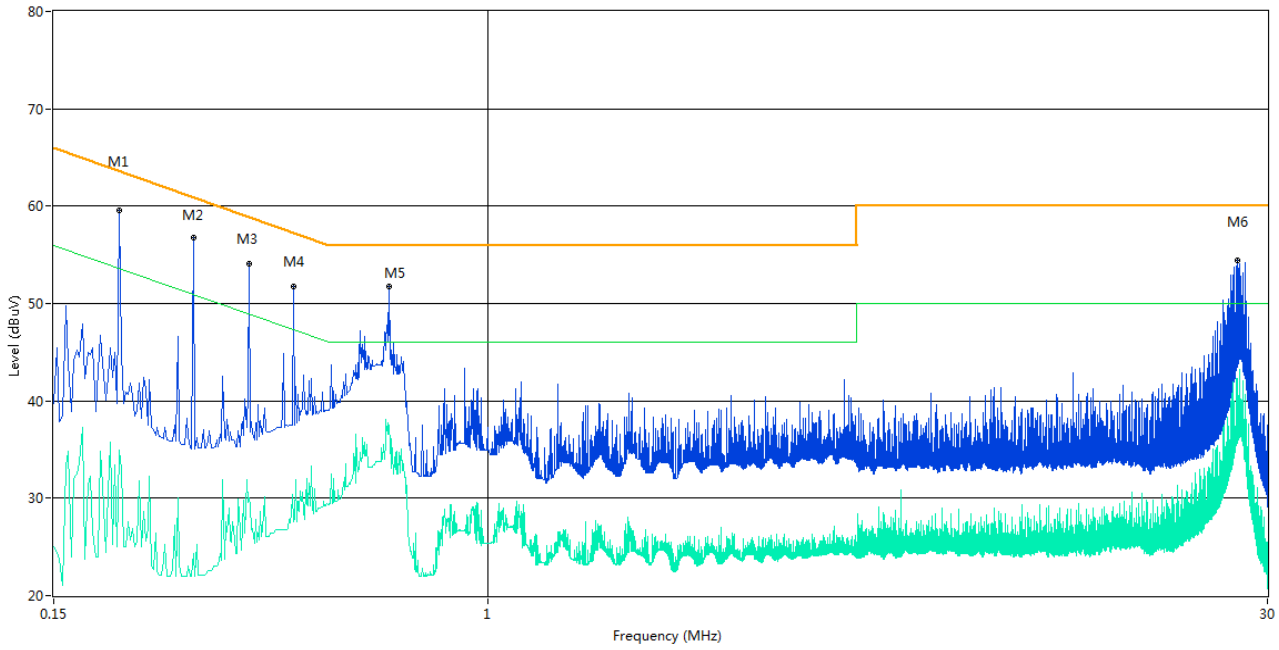
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	61.6	10.04	65.4	3.80	Peak	L Line	Pass
1**	0.162	31.7	10.04	55.4	23.70	AV	L Line	Pass
2	0.238	60.58	10.04	62.2	1.62	Peak	L Line	N/A
2*	0.238	47.08	10.04	62.2	15.12	QP	L Line	Pass
2**	0.238	23.06	10.04	52.2	29.14	AV	L Line	Pass
3	0.314	52.4	10.04	59.9	7.50	Peak	L Line	Pass
3**	0.314	23.0	10.04	49.9	26.90	AV	L Line	Pass
4	0.640	49.9	10.05	56.0	6.10	Peak	L Line	Pass
4**	0.640	37.9	10.05	46.0	8.10	AV	L Line	Pass
5	2.074	43.2	10.09	56.0	12.80	Peak	L Line	Pass
5**	2.074	27.1	10.09	46.0	18.90	AV	L Line	Pass
6	26.590	56.1	10.78	60.0	3.90	Peak	L Line	Pass
6**	26.590	44.2	10.78	50.0	5.80	AV	L Line	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.200	59.6	10.04	63.6	4.00	Peak	N Line	Pass
1**	0.200	34.9	10.04	53.6	18.70	AV	N Line	Pass
2	0.276	56.8	10.04	60.9	4.10	Peak	N Line	Pass
2**	0.276	24.3	10.04	50.9	26.60	AV	N Line	Pass
3	0.352	54.0	10.04	58.9	4.90	Peak	N Line	Pass
3**	0.352	30.0	10.04	48.9	18.90	AV	N Line	Pass
4	0.428	51.7	10.04	57.3	5.60	Peak	N Line	Pass
4**	0.428	27.4	10.04	47.3	19.90	AV	N Line	Pass
5	0.650	51.7	10.05	56.0	4.30	Peak	N Line	Pass
5**	0.650	37.2	10.05	46.0	8.80	AV	N Line	Pass
6	26.314	54.4	10.77	60.0	5.60	Peak	N Line	Pass
6**	26.314	42.3	10.77	50.0	7.70	AV	N Line	Pass

A.6 Conducted Spurious Emission and Band Edge (Authorized-band)

Note [1]: Test plots please refer to the document “Annex No.: BL-SZ1810291-602 Data Part 4.pdf”.
Note [2]: The margin of all individual chains in the report is greater than 3 db, so the total value meets the limit requirement.

ANT 0

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

ANT 1

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

A.7 Radiated Spurious Emissions and Band Edge (Restricted-band)

Test Data

Cabinet Radiated spurious emission test

Note [1]: The symbol of "--" in the table which means not application.

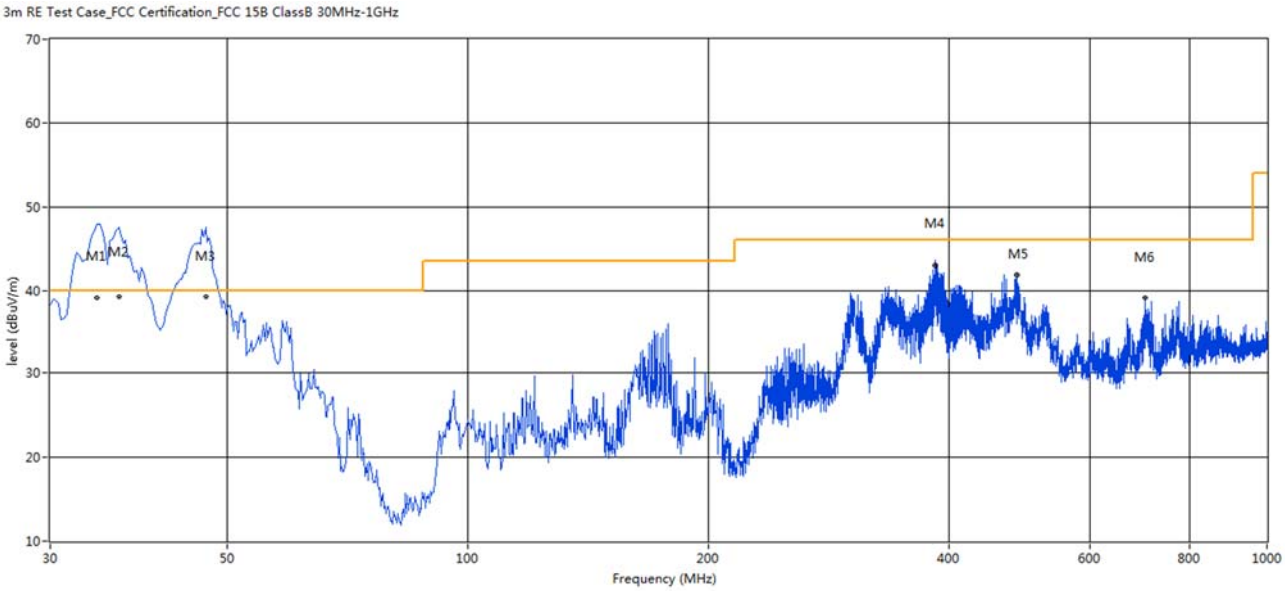
Note [2]: For the test data above 1 GHz，According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

Note [5]: For Multiple transmitter output, the quantity *10 log (NANT)* dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding *10 log(NANT)* if the measurements are made relative to the in-band emissions on the individual outputs.

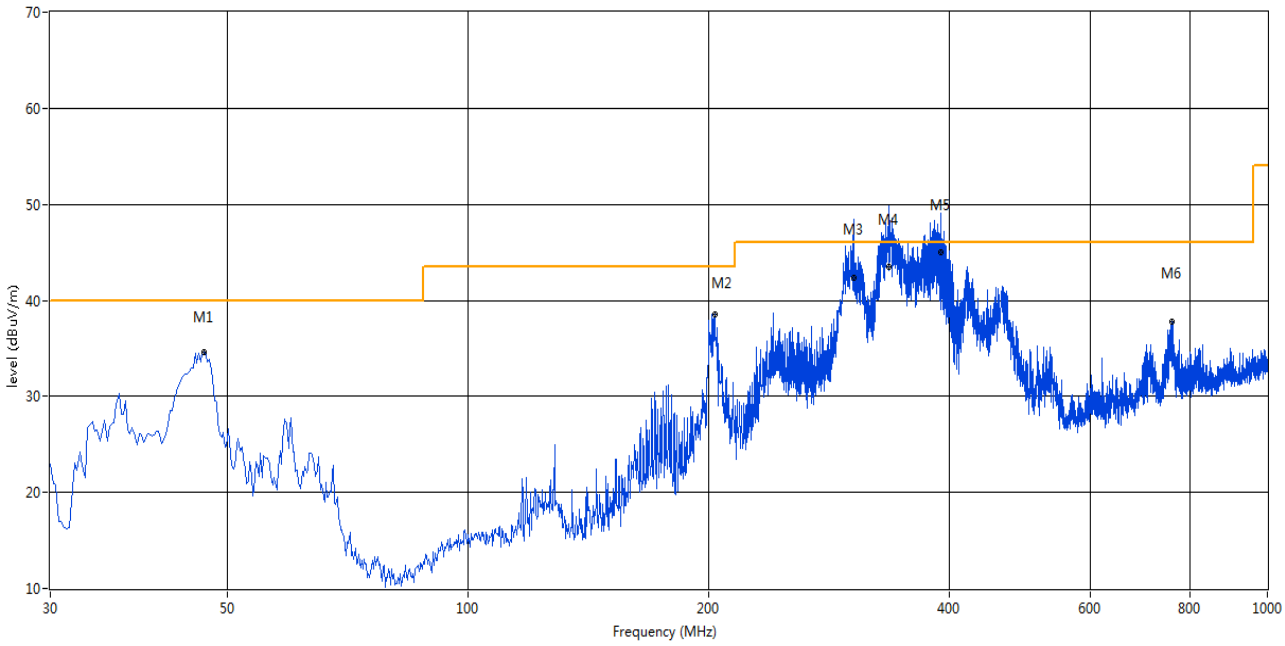
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	34.365	47.99	-26.67	40.0	-7.99	Peak	1.00	100	Vertical	N/A
1*	34.365	38.99	-26.67	40.0	1.01	QP	1.00	100	Vertical	Pass
2	36.547	47.49	-25.63	40.0	-7.49	Peak	44.00	100	Vertical	N/A
2*	36.547	39.19	-25.63	40.0	0.81	QP	44.00	100	Vertical	Pass
3	46.975	47.55	-23.42	40.0	-7.55	Peak	3.00	100	Vertical	N/A
3*	46.975	39.16	-23.42	40.0	0.84	QP	3.00	100	Vertical	Pass
4	384.535	43.67	-18.37	46.0	2.33	Peak	2.00	100	Vertical	N/A
4*	384.535	42.92	-18.37	46.0	3.08	QP	2.00	100	Vertical	Pass
5	486.627	41.87	-15.77	46.0	4.13	Peak	4.00	100	Vertical	Pass
6	703.180	39.03	-11.29	46.0	6.97	Peak	2.00	100	Vertical	Pass

30 MHz to 1 GHz, ANT H

3m RE Test Case_FCC Certification_FCC 15B ClassB 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	46.733	34.57	-23.44	40.0	5.43	Peak	325.00	100	Horizontal	Pass
2	203.388	38.57	-23.82	43.5	4.93	Peak	10.00	100	Horizontal	Pass
3	303.384	48.44	-20.65	46.0	-2.44	Peak	167.00	108	Horizontal	N/A
3*	303.384	42.29	-20.65	46.0	3.71	QP	167.00	108	Horizontal	Pass
4	336.138	49.83	-19.34	46.0	-3.83	Peak	149.00	101	Horizontal	N/A
4*	336.138	43.52	-19.34	46.0	2.48	QP	149.00	101	Horizontal	Pass
5	390.017	48.94	-18.23	46.0	-2.94	Peak	161.00	108	Horizontal	N/A
5*	390.017	44.97	-18.23	46.0	1.03	QP	161.00	108	Horizontal	Pass
6	759.682	37.82	-9.99	46.0	8.18	Peak	268.00	100	Horizontal	Pass

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1906.000	34.2	-14.06	--	-34.20	AV	1.70	150	Vertical	Pass
1	1906.000	45.75	-14.06	68.2	22.45	Peak	1.70	150	Vertical	Pass
2**	2745.000	39.2	-8.86	54.0	14.80	AV	2.90	150	Vertical	Pass
2	2745.000	46.28	-8.86	74.0	27.72	Peak	2.90	150	Vertical	Pass
3**	3916.000	45.8	-3.81	54.0	8.20	AV	246.40	150	Vertical	Pass
3	3916.000	48.71	-3.81	74.0	25.29	Peak	246.40	150	Vertical	Pass
4**	5183.000	99.9	-1.07	--	-99.90	AV	4.30	150	Vertical	N/A
4	5183.000	104.17	-1.07	--	-99.87	Peak	4.30	150	Vertical	N/A
5**	6250.000	44.0	0.32	--	-44.00	AV	153.00	150	Vertical	Pass
5	6250.000	53.70	0.32	68.2	14.50	Peak	153.00	150	Vertical	Pass
6**	12055.687	46.6	17.37	54.0	7.40	AV	52.20	150	Vertical	Pass
6	12055.687	53.02	17.37	74.0	20.98	Peak	52.20	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1346.500	42.8	-14.54	54.0	11.20	AV	44.20	150	Horizontal	Pass
1	1346.500	49.56	-14.54	74.0	24.44	Peak	44.20	150	Horizontal	Pass
2**	2011.500	31.3	-13.68	--	-31.30	AV	182.70	150	Horizontal	N/A
2	2011.500	45.11	-13.68	68.2	23.09	Peak	182.70	150	Horizontal	Pass
3**	3667.000	47.3	-4.63	54.0	6.70	AV	99.10	150	Horizontal	Pass
3	3667.000	52.68	-4.63	74.0	21.32	Peak	99.10	150	Horizontal	Pass
4**	5187.000	104.3	-1.09	--	-104.30	AV	254.70	150	Horizontal	N/A
4	5187.000	108.18	-1.09	--	146.52	Peak	254.70	150	Horizontal	Pass
5**	9969.875	43.9	16.42	--	-43.90	AV	192.90	150	Horizontal	N/A
5	9969.875	50.02	16.42	68.2	18.18	Peak	192.90	150	Horizontal	Pass
6**	16701.938	48.3	21.28	--	-48.30	AV	0.00	150	Horizontal	N/A
6	16701.938	54.49	21.28	68.2	13.71	Peak	0.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1341.000	40.6	-14.42	54.0	13.40	AV	226.80	150	Vertical	Pass
1	1341.000	50.01	-14.42	74.0	23.99	Peak	226.80	150	Vertical	Pass
2**	2758.500	38.6	-9.12	54.0	15.40	AV	222.90	150	Vertical	Pass
2	2758.500	45.21	-9.12	74.0	28.79	Peak	222.90	150	Vertical	Pass
3**	3667.000	48.5	-4.63	54.0	5.50	AV	19.70	150	Vertical	Pass
3	3667.000	53.74	-4.63	74.0	20.26	Peak	19.70	150	Vertical	Pass
4**	5197.000	99.4	-1.20	--	-99.40	AV	117.10	150	Vertical	N/A
4	5197.000	104.27	-1.20	--	12.83	Peak	117.10	150	Vertical	Pass
5**	6250.000	44.8	0.32	--	-44.80	AV	0.00	150	Vertical	N/A
5	6250.000	53.61	0.32	68.2	14.59	Peak	0.00	150	Vertical	Pass
6**	11002.000	44.1	15.91	54.0	9.90	AV	79.60	150	Vertical	Pass
6	11002.000	51.13	15.91	74.0	22.87	Peak	79.60	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1974.000	40.9	-13.75	--	-40.90	AV	156.30	150	Horizontal	N/A
1	1974.000	50.79	-13.75	68.2	17.41	Peak	156.30	150	Horizontal	Pass
2**	2762.500	49.9	-8.73	54.0	4.10	AV	73.30	150	Horizontal	Pass
2	2762.500	53.56	-8.73	74.0	20.44	Peak	73.30	150	Horizontal	Pass
3**	5196.000	102.8	-1.22	--	-102.80	AV	268.70	150	Horizontal	N/A
3	5196.000	107.48	-1.22	--	161.22	Peak	268.70	150	Horizontal	Pass
4**	6250.000	43.8	0.32	--	-43.80	AV	126.60	150	Horizontal	N/A
4	6250.000	52.16	0.32	68.2	16.04	Peak	126.60	150	Horizontal	Pass
5**	10178.312	45.8	15.52	--	-45.80	AV	357.60	150	Horizontal	N/A
5	10178.312	50.80	15.52	68.2	17.40	Peak	357.60	150	Horizontal	Pass
6**	16758.375	47.9	20.54	--	-47.90	AV	360.00	150	Horizontal	N/A
6	16758.375	54.54	20.54	68.2	13.66	Peak	360.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1925.000	43.7	-14.16	--	-43.70	AV	171.60	150	Vertical	N/A
1	1925.000	50.75	-14.16	68.2	17.45	Peak	171.60	150	Vertical	Pass
2**	2808.000	39.6	-8.49	54.0	14.40	AV	0.00	150	Vertical	Pass
2	2808.000	47.59	-8.49	74.0	26.41	Peak	0.00	150	Vertical	Pass
3**	3667.000	48.0	-4.63	54.0	6.00	AV	19.30	150	Vertical	Pass
3	3667.000	53.75	-4.63	74.0	20.25	Peak	19.30	150	Vertical	Pass
4**	5248.000	101.2	-1.13	--	-101.20	AV	214.60	150	Vertical	N/A
4	5248.000	105.65	-1.13	--	108.95	Peak	214.60	150	Vertical	Pass
5**	7313.375	48.9	16.30	54.0	5.10	AV	109.30	150	Vertical	Pass
5	7313.375	53.27	16.30	74.0	20.73	Peak	109.30	150	Vertical	Pass
6**	16696.688	48.0	21.17	--	-48.00	AV	0.40	150	Vertical	N/A
6	16696.688	53.58	21.17	68.2	14.62	Peak	0.40	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1341.500	44.5	-14.45	54.0	9.50	AV	35.80	150	Horizontal	Pass
1	1341.500	48.91	-14.45	74.0	25.09	Peak	35.80	150	Horizontal	Pass
2**	2802.500	49.6	-8.29	54.0	4.40	AV	254.40	150	Horizontal	Pass
2	2802.500	56.29	-8.29	74.0	17.71	Peak	254.40	150	Horizontal	Pass
3**	3667.000	47.1	-4.63	54.0	6.90	AV	96.70	150	Horizontal	Pass
3	3667.000	52.02	-4.63	74.0	21.98	Peak	96.70	150	Horizontal	Pass
4**	5248.000	105.6	-1.13	--	-105.60	AV	74.10	150	Horizontal	N/A
4	5248.000	108.89	-1.13	--	-34.79	Peak	74.10	150	Horizontal	N/A
5**	8009.125	44.1	16.54	--	-44.10	AV	176.20	150	Horizontal	N/A
5	8009.125	50.67	16.54	68.2	17.53	Peak	176.20	150	Horizontal	Pass
6**	16757.063	47.8	20.53	--	-47.80	AV	0.60	150	Horizontal	N/A
6	16757.063	54.43	20.53	68.2	13.77	Peak	0.60	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11n(HT20) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1972.000	40.2	-13.91	--	-40.20	AV	359.10	150	Vertical	N/A
1	1972.000	50.85	-13.91	68.2	17.35	Peak	359.10	150	Vertical	Pass
2**	2738.500	45.8	-8.96	54.0	8.20	AV	356.40	150	Vertical	Pass
2	2738.500	51.71	-8.96	74.0	22.29	Peak	356.40	150	Vertical	Pass
3**	5188.000	101.3	-1.13	--	-101.30	AV	118.00	150	Vertical	N/A
3	5188.000	106.13	-1.13	--	11.87	Peak	118.00	150	Vertical	Pass
4**	6250.000	45.0	0.32	--	-45.00	AV	343.80	150	Vertical	N/A
4	6250.000	53.99	0.32	68.2	14.21	Peak	343.80	150	Vertical	Pass
5**	10092.063	44.1	15.64	--	-44.10	AV	308.50	150	Vertical	N/A
5	10092.063	50.54	15.64	68.2	17.66	Peak	308.50	150	Vertical	Pass
6**	16711.125	48.2	21.09	--	-48.20	AV	235.00	150	Vertical	N/A
6	16711.125	54.57	21.09	68.2	13.63	Peak	235.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11n(HT20) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1345.500	43.6	-14.58	54.0	10.40	AV	46.80	150	Horizontal	Pass
1	1345.500	50.16	-14.58	74.0	23.84	Peak	46.80	150	Horizontal	Pass
2**	1799.000	32.9	-15.13	--	-32.90	AV	50.80	150	Horizontal	N/A
2	1799.000	44.86	-15.13	68.2	23.34	Peak	50.80	150	Horizontal	Pass
3**	3667.000	48.9	-4.63	54.0	5.10	AV	92.20	150	Horizontal	Pass
3	3667.000	51.96	-4.63	74.0	22.04	Peak	92.20	150	Horizontal	Pass
4**	5188.000	104.5	-1.13	--	-104.50	AV	43.50	150	Horizontal	N/A
4	5188.000	108.53	-1.13	--	-65.03	Peak	43.50	150	Horizontal	N/A
5**	8129.875	45.7	16.67	54.0	8.30	AV	32.20	150	Horizontal	Pass
5	8129.875	51.13	16.67	74.0	22.87	Peak	32.20	150	Horizontal	Pass
6**	16711.125	47.6	21.09	--	-47.60	AV	224.50	150	Horizontal	N/A
6	16711.125	53.41	21.09	68.2	14.79	Peak	224.50	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11n(HT20) Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1767.000	37.6	-15.29	--	-37.60	AV	162.90	150	Vertical	N/A
1	1767.000	49.46	-15.29	68.2	18.74	Peak	162.90	150	Vertical	Pass
2**	2763.500	44.3	-8.63	54.0	9.70	AV	353.90	150	Vertical	Pass
2	2763.500	52.98	-8.63	74.0	21.02	Peak	353.90	150	Vertical	Pass
3**	3666.000	51.5	-4.61	54.0	2.50	AV	16.20	150	Vertical	Pass
3	3666.000	52.71	-4.61	74.0	21.29	Peak	16.20	150	Vertical	Pass
4**	5197.000	101.2	-1.20	--	-101.20	AV	273.60	150	Vertical	N/A
4	5197.000	105.96	-1.20	--	167.64	Peak	273.60	150	Vertical	Pass
5**	7311.938	45.6	16.25	54.0	8.40	AV	280.50	150	Vertical	Pass
5	7311.938	52.14	16.25	74.0	21.86	Peak	280.50	150	Vertical	Pass
6**	16699.312	48.5	21.28	--	-48.50	AV	309.90	150	Vertical	N/A
6	16699.312	53.57	21.28	68.2	14.63	Peak	309.90	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11n(HT20) Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1344.500	42.0	-14.59	54.0	12.00	AV	43.20	150	Horizontal	Pass
1	1344.500	48.19	-14.59	74.0	25.81	Peak	43.20	150	Horizontal	Pass
2**	2764.000	49.7	-8.58	54.0	4.30	AV	199.10	150	Horizontal	Pass
2	2764.000	58.37	-8.58	74.0	15.63	Peak	199.10	150	Horizontal	Pass
3**	3666.000	50.1	-4.61	54.0	3.90	AV	96.00	150	Horizontal	Pass
3	3666.000	52.00	-4.61	74.0	22.00	Peak	96.00	150	Horizontal	Pass
4**	5208.000	104.5	-1.06	--	-104.50	AV	43.10	150	Horizontal	N/A
4	5208.000	109.52	-1.06	--	-66.42	Peak	43.10	150	Horizontal	N/A
5**	9962.687	44.8	16.42	--	-44.80	AV	8.30	150	Horizontal	N/A
5	9962.687	50.20	16.42	68.2	18.00	Peak	8.30	150	Horizontal	Pass
6**	16709.812	48.5	21.14	--	-48.50	AV	62.50	150	Horizontal	N/A
6	16709.812	53.51	21.14	68.2	14.69	Peak	62.50	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11n(HT20) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1952.500	43.1	-14.19	--	-43.10	AV	350.40	150	Vertical	N/A
1	1952.500	51.88	-14.19	68.2	16.32	Peak	350.40	150	Vertical	Pass
2**	2808.500	42.7	-8.40	54.0	11.30	AV	156.00	150	Vertical	Pass
2	2808.500	49.82	-8.40	74.0	24.18	Peak	156.00	150	Vertical	Pass
3**	3666.000	51.5	-4.61	54.0	2.50	AV	77.00	150	Vertical	Pass
3	3666.000	53.04	-4.61	74.0	20.96	Peak	77.00	150	Vertical	Pass
4**	5249.000	102.9	-1.00	--	-102.90	AV	121.50	150	Vertical	N/A
4	5249.000	105.59	-1.00	--	15.91	Peak	121.50	150	Vertical	Pass
5**	6250.000	43.4	0.32	--	-43.40	AV	359.50	150	Vertical	N/A
5	6250.000	52.94	0.32	68.2	15.26	Peak	359.50	150	Vertical	Pass
6**	10477.312	48.2	15.75	--	-48.20	AV	131.40	150	Vertical	N/A
6	10477.312	53.25	15.75	68.2	14.95	Peak	131.40	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11n(HT20) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1343.000	42.6	-14.58	54.0	11.40	AV	47.10	150	Horizontal	Pass
1	1343.000	48.23	-14.58	74.0	25.77	Peak	47.10	150	Horizontal	Pass
2**	1950.500	39.6	-14.24	--	-39.60	AV	39.80	150	Horizontal	N/A
2	1950.500	47.35	-14.24	68.2	20.85	Peak	39.80	150	Horizontal	Pass
3**	3665.000	45.7	-4.67	54.0	8.30	AV	98.20	150	Horizontal	Pass
3	3665.000	51.54	-4.67	74.0	22.46	Peak	98.20	150	Horizontal	Pass
4**	5248.000	104.8	-1.13	--	-104.80	AV	271.20	150	Horizontal	N/A
4	5248.000	108.07	-1.13	--	163.13	Peak	271.20	150	Horizontal	Pass
5**	6251.000	49.1	0.36	--	-49.10	AV	129.00	150	Horizontal	N/A
5	6251.000	50.94	0.36	68.2	17.26	Peak	129.00	150	Horizontal	Pass
6**	16741.313	48.2	20.35	--	-48.20	AV	353.60	150	Horizontal	N/A
6	16741.313	54.30	20.35	68.2	13.90	Peak	353.60	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11n(HT40) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1915.500	40.5	-14.12	--	-40.50	AV	149.00	150	Vertical	N/A
1	1915.500	50.35	-14.12	68.2	17.85	Peak	149.00	150	Vertical	Pass
2**	3666.000	51.1	-4.61	54.0	2.90	AV	91.10	150	Vertical	Pass
2	3666.000	52.98	-4.61	74.0	21.02	Peak	91.10	150	Vertical	Pass
3**	5199.000	96.4	-1.15	--	-96.40	AV	126.40	150	Vertical	N/A
3	5199.000	99.75	-1.15	--	26.65	Peak	126.40	150	Vertical	Pass
4**	6250.000	43.7	0.32	--	-43.70	AV	343.60	150	Vertical	N/A
4	6250.000	53.78	0.32	68.2	14.42	Peak	343.60	150	Vertical	Pass
5**	9923.875	44.1	16.68	--	-44.10	AV	271.40	150	Vertical	N/A
5	9923.875	49.80	16.68	68.2	18.40	Peak	271.40	150	Vertical	Pass
6**	16757.063	47.0	20.53	--	-47.00	AV	333.70	150	Vertical	N/A
6	16757.063	54.04	20.53	68.2	14.16	Peak	333.70	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11n(HT40) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1343.000	42.5	-14.58	54.0	11.50	AV	38.50	150	Horizontal	Pass
1	1343.000	49.66	-14.58	74.0	24.34	Peak	38.50	150	Horizontal	Pass
2**	2759.000	46.1	-9.10	54.0	7.90	AV	254.20	150	Horizontal	Pass
2	2759.000	52.20	-9.10	74.0	21.80	Peak	254.20	150	Horizontal	Pass
3**	3667.000	50.6	-4.63	54.0	3.40	AV	100.40	150	Horizontal	Pass
3	3667.000	52.63	-4.63	74.0	21.37	Peak	100.40	150	Horizontal	Pass
4**	5197.000	102.2	-1.20	--	-102.20	AV	251.30	150	Horizontal	N/A
4	5197.000	106.26	-1.20	--	145.04	Peak	251.30	150	Horizontal	Pass
5**	7717.313	44.3	16.32	54.0	9.70	AV	37.00	150	Horizontal	Pass
5	7717.313	51.69	16.32	74.0	22.31	Peak	37.00	150	Horizontal	Pass
6**	16705.875	48.1	21.22	--	-48.10	AV	299.90	150	Horizontal	N/A
6	16705.875	54.67	21.22	68.2	13.53	Peak	299.90	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11n(HT40) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1922.500	42.1	-13.93	--	-42.10	AV	163.00	150	Vertical	N/A
1	1922.500	49.92	-13.93	68.2	18.28	Peak	163.00	150	Vertical	Pass
2**	3667.000	52.0	-4.63	54.0	2.00	AV	29.40	150	Vertical	Pass
2	3667.000	53.20	-4.63	74.0	20.80	Peak	29.40	150	Vertical	Pass
3**	5241.000	96.7	-1.15	--	-96.70	AV	126.60	150	Vertical	N/A
3	5241.000	100.92	-1.15	--	25.68	Peak	126.60	150	Vertical	Pass
4**	6250.000	44.7	0.32	--	-44.70	AV	348.40	150	Vertical	N/A
4	6250.000	53.59	0.32	68.2	14.61	Peak	348.40	150	Vertical	Pass
5**	10468.688	44.0	15.63	--	-44.00	AV	7.80	150	Vertical	N/A
5	10468.688	50.20	15.63	68.2	18.00	Peak	7.80	150	Vertical	Pass
6**	16694.062	47.9	21.05	--	-47.90	AV	359.20	150	Vertical	N/A
6	16694.062	53.63	21.05	68.2	14.57	Peak	359.20	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11n(HT40) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1343.000	43.1	-14.58	54.0	10.90	AV	37.90	150	Horizontal	Pass
1	1343.000	48.42	-14.58	74.0	25.58	Peak	37.90	150	Horizontal	Pass
2**	1811.000	37.6	-15.18	--	-37.60	AV	41.60	150	Horizontal	N/A
2	1811.000	44.68	-15.18	68.2	23.52	Peak	41.60	150	Horizontal	Pass
3**	2779.500	42.7	-8.03	54.0	11.30	AV	248.20	150	Horizontal	Pass
3	2779.500	52.03	-8.03	74.0	21.97	Peak	248.20	150	Horizontal	Pass
4**	5236.000	101.9	-1.07	--	-101.90	AV	268.50	150	Horizontal	N/A
4	5236.000	106.97	-1.07	--	161.53	Peak	268.50	150	Horizontal	Pass
5**	6250.000	43.5	0.32	--	-43.50	AV	135.30	150	Horizontal	N/A
5	6250.000	51.49	0.32	68.2	16.71	Peak	135.30	150	Horizontal	Pass
6**	16708.500	49.7	21.18	--	-49.70	AV	317.80	150	Horizontal	N/A
6	16708.500	54.13	21.18	68.2	14.07	Peak	317.80	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac(VHT20) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1971.500	38.7	-13.97	--	-38.70	AV	266.80	150	Vertical	N/A
1	1971.500	50.03	-13.97	68.2	18.17	Peak	266.80	150	Vertical	Pass
2**	2747.000	43.2	-8.84	54.0	10.80	AV	150.30	150	Vertical	Pass
2	2747.000	52.12	-8.84	74.0	21.88	Peak	150.30	150	Vertical	Pass
3**	3666.000	48.9	-4.61	54.0	5.10	AV	25.30	150	Vertical	Pass
3	3666.000	53.16	-4.61	74.0	20.84	Peak	25.30	150	Vertical	Pass
4**	5187.000	101.7	-1.09	--	-101.70	AV	219.00	150	Vertical	N/A
4	5187.000	105.73	-1.09	--	113.27	Peak	219.00	150	Vertical	Pass
5**	8175.875	44.0	17.07	54.0	10.00	AV	292.90	150	Vertical	Pass
5	8175.875	51.24	17.07	74.0	22.76	Peak	292.90	150	Vertical	Pass
6**	16692.750	47.8	20.99	--	-47.80	AV	138.60	150	Vertical	N/A
6	16692.750	54.40	20.99	68.2	13.80	Peak	138.60	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac(VHT20) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1747.000	35.2	-15.61	--	-35.20	AV	48.30	150	Horizontal	N/A
1	1747.000	45.58	-15.61	68.2	22.62	Peak	48.30	150	Horizontal	Pass
2**	2746.500	51.4	-8.84	54.0	2.60	AV	228.30	150	Horizontal	Pass
2	2746.500	58.37	-8.84	74.0	15.63	Peak	228.30	150	Horizontal	Pass
3**	3666.000	50.6	-4.61	54.0	3.40	AV	100.50	150	Horizontal	Pass
3	3666.000	52.04	-4.61	74.0	21.96	Peak	100.50	150	Horizontal	Pass
4**	5173.000	104.7	-1.14	--	-104.70	AV	60.60	150	Horizontal	N/A
4	5173.000	108.18	-1.14	--	-47.58	Peak	60.60	150	Horizontal	N/A
5**	7613.813	45.9	16.32	54.0	8.10	AV	132.30	150	Horizontal	Pass
5	7613.813	50.75	16.32	74.0	23.25	Peak	132.30	150	Horizontal	Pass
6**	16652.063	47.3	20.57	--	-47.30	AV	0.90	150	Horizontal	N/A
6	16652.063	53.84	20.57	68.2	14.36	Peak	0.90	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac(VHT20) Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1975.500	44.1	-13.77	--	-44.10	AV	282.50	150	Vertical	N/A
1	1975.500	53.21	-13.77	68.2	14.99	Peak	282.50	150	Vertical	Pass
2**	3666.000	52.3	-4.61	54.0	1.70	AV	19.40	150	Vertical	Pass
2	3666.000	53.30	-4.61	74.0	20.70	Peak	19.40	150	Vertical	Pass
3**	5208.000	100.0	-1.06	--	-100.00	AV	125.80	150	Vertical	N/A
3	5208.000	105.19	-1.06	--	20.61	Peak	125.80	150	Vertical	Pass
4**	6250.000	44.4	0.32	--	-44.40	AV	342.40	150	Vertical	N/A
4	6250.000	53.87	0.32	68.2	14.33	Peak	342.40	150	Vertical	Pass
5**	10409.750	46.3	15.71	--	-46.30	AV	215.00	150	Vertical	N/A
5	10409.750	50.72	15.71	68.2	17.48	Peak	215.00	150	Vertical	Pass
6**	16695.375	47.6	21.11	--	-47.60	AV	114.60	150	Vertical	N/A
6	16695.375	54.24	21.11	68.2	13.96	Peak	114.60	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac(VHT20) Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1341.500	44.2	-14.45	54.0	9.80	AV	39.60	150	Horizontal	Pass
1	1341.500	48.49	-14.45	74.0	25.51	Peak	39.60	150	Horizontal	Pass
2**	1962.500	33.7	-13.84	--	-33.70	AV	31.70	150	Horizontal	N/A
2	1962.500	44.64	-13.84	68.2	23.56	Peak	31.70	150	Horizontal	Pass
3**	3666.000	48.6	-4.61	54.0	5.40	AV	99.60	150	Horizontal	Pass
3	3666.000	51.72	-4.61	74.0	22.28	Peak	99.60	150	Horizontal	Pass
4**	5208.000	104.9	-1.06	--	-104.90	AV	54.90	150	Horizontal	N/A
4	5208.000	108.18	-1.06	--	-53.28	Peak	54.90	150	Horizontal	N/A
5**	10393.938	43.0	15.62	--	-43.00	AV	136.10	150	Horizontal	N/A
5	10393.938	50.21	15.62	68.2	17.99	Peak	136.10	150	Horizontal	Pass
6**	16675.687	48.5	20.43	--	-48.50	AV	354.70	150	Horizontal	N/A
6	16675.687	54.40	20.43	68.2	13.80	Peak	354.70	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac(VHT20) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1950.000	41.8	-14.17	--	-41.80	AV	155.30	150	Vertical	N/A
1	1950.000	51.61	-14.17	68.2	16.59	Peak	155.30	150	Vertical	Pass
2**	3666.000	51.4	-4.61	54.0	2.60	AV	11.40	150	Vertical	Pass
2	3666.000	53.31	-4.61	74.0	20.69	Peak	11.40	150	Vertical	Pass
3**	5249.000	103.1	-1.00	--	-103.10	AV	122.10	150	Vertical	N/A
3	5249.000	106.34	-1.00	--	15.76	Peak	122.10	150	Vertical	Pass
4**	6250.000	44.9	0.32	--	-44.90	AV	359.20	150	Vertical	N/A
4	6250.000	53.31	0.32	68.2	14.89	Peak	359.20	150	Vertical	Pass
5**	10474.438	47.8	15.71	--	-47.80	AV	120.80	150	Vertical	N/A
5	10474.438	52.80	15.71	68.2	15.40	Peak	120.80	150	Vertical	Pass
6**	16701.938	48.3	21.28	--	-48.30	AV	120.10	150	Vertical	N/A
6	16701.938	53.75	21.28	68.2	14.45	Peak	120.10	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac(VHT20) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1911.500	30.7	-14.09	--	-30.70	AV	36.20	150	Horizontal	N/A
1	1911.500	45.81	-14.09	68.2	22.39	Peak	36.20	150	Horizontal	Pass
2**	3666.000	50.3	-4.61	54.0	3.70	AV	96.20	150	Horizontal	Pass
2	3666.000	51.95	-4.61	74.0	22.05	Peak	96.20	150	Horizontal	Pass
3**	5232.000	102.4	-0.88	--	-102.40	AV	43.10	150	Horizontal	N/A
3	5232.000	108.30	-0.88	--	-65.20	Peak	43.10	150	Horizontal	N/A
4**	6250.000	43.6	0.32	--	-43.60	AV	135.90	150	Horizontal	N/A
4	6250.000	49.97	0.32	68.2	18.23	Peak	135.90	150	Horizontal	Pass
5**	9923.875	44.3	16.68	--	-44.30	AV	126.50	150	Horizontal	N/A
5	9923.875	50.30	16.68	68.2	17.90	Peak	126.50	150	Horizontal	Pass
6**	16712.438	47.9	21.04	--	-47.90	AV	81.30	150	Horizontal	N/A
6	16712.438	54.08	21.04	68.2	14.12	Peak	81.30	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac(VHT40) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1842.000	41.6	-16.54	--	-41.60	AV	158.20	150	Vertical	N/A
1	1842.000	53.30	-16.54	68.2	14.90	Peak	158.20	150	Vertical	Pass
2**	2747.500	33.7	-10.33	54.0	20.30	AV	217.20	150	Vertical	Pass
2	2747.500	43.09	-10.33	74.0	30.91	Peak	217.20	150	Vertical	Pass
3**	3667.000	49.9	-7.65	54.0	4.10	AV	289.30	150	Vertical	Pass
3	3667.000	51.70	-7.65	74.0	22.30	Peak	289.30	150	Vertical	Pass
4**	5181.000	89.8	-3.43	--	-89.80	AV	118.40	150	Vertical	N/A
4	5181.000	94.94	-3.43	--	23.46	Peak	118.40	150	Vertical	Pass
5**	7309.063	48.0	13.97	54.0	6.00	AV	3.10	150	Vertical	Pass
5	7309.063	53.35	13.97	74.0	20.65	Peak	3.10	150	Vertical	Pass
6**	12614.875	47.2	17.81	54.0	6.80	AV	349.30	150	Vertical	Pass
6	12614.875	53.29	17.81	74.0	20.71	Peak	349.30	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac(VHT40) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1842.500	45.7	-16.56	--	-45.70	AV	324.10	150	Horizontal	N/A
1	1842.500	52.05	-16.56	68.2	16.15	Peak	324.10	150	Horizontal	Pass
2**	2758.500	44.7	-10.20	54.0	9.30	AV	194.50	150	Horizontal	Pass
2	2758.500	53.79	-10.20	74.0	20.21	Peak	194.50	150	Horizontal	Pass
3**	3667.000	46.5	-7.65	54.0	7.50	AV	299.80	150	Horizontal	Pass
3	3667.000	48.63	-7.65	74.0	25.37	Peak	299.80	150	Horizontal	Pass
4**	5182.000	98.6	-3.47	--	-98.60	AV	266.90	150	Horizontal	N/A
4	5182.000	102.48	-3.47	--	164.42	Peak	266.90	150	Horizontal	Pass
5**	9128.937	42.6	15.50	54.0	11.40	AV	77.40	150	Horizontal	Pass
5	9128.937	49.71	15.50	74.0	24.29	Peak	77.40	150	Horizontal	Pass
6**	12508.500	46.5	16.71	54.0	7.50	AV	271.40	150	Horizontal	Pass
6	12508.500	53.04	16.71	74.0	20.96	Peak	271.40	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac(VHT40) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1824.500	43.7	-16.67	--	-43.70	AV	147.30	150	Vertical	N/A
1	1824.500	53.67	-16.67	68.2	14.53	Peak	147.30	150	Vertical	Pass
2**	3487.000	47.9	-8.47	--	-47.90	AV	210.90	150	Vertical	N/A
2	3487.000	50.21	-8.47	68.2	17.99	Peak	210.90	150	Vertical	Pass
3**	3667.000	50.0	-7.65	54.0	4.00	AV	288.40	150	Vertical	Pass
3	3667.000	52.09	-7.65	74.0	21.91	Peak	288.40	150	Vertical	Pass
4**	5242.000	90.9	-2.37	--	-90.90	AV	83.20	150	Vertical	N/A
4	5242.000	94.85	-2.37	--	-11.65	Peak	83.20	150	Vertical	N/A
5**	7311.938	49.3	13.96	54.0	4.70	AV	96.60	150	Vertical	Pass
5	7311.938	53.47	13.96	74.0	20.53	Peak	96.60	150	Vertical	Pass
6**	12462.500	47.1	17.02	54.0	6.90	AV	12.80	150	Vertical	Pass
6	12462.500	52.47	17.02	74.0	21.53	Peak	12.80	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac(VHT40) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1842.500	45.0	-16.56	--	-45.00	AV	360.00	150	Horizontal	N/A
1	1842.500	50.60	-16.56	68.2	17.60	Peak	360.00	150	Horizontal	Pass
2**	2791.000	40.6	-10.16	54.0	13.40	AV	222.70	150	Horizontal	Pass
2	2791.000	48.97	-10.16	74.0	25.03	Peak	222.70	150	Horizontal	Pass
3**	3667.000	46.7	-7.65	54.0	7.30	AV	294.20	150	Horizontal	Pass
3	3667.000	48.72	-7.65	74.0	25.28	Peak	294.20	150	Horizontal	Pass
4**	5238.000	98.1	-2.44	--	-98.10	AV	272.30	150	Horizontal	N/A
4	5238.000	102.78	-2.44	--	169.52	Peak	272.30	150	Horizontal	Pass
5**	9294.250	43.0	15.38	--	-43.00	AV	2.70	150	Horizontal	N/A
5	9294.250	49.33	15.38	68.2	18.87	Peak	2.70	150	Horizontal	Pass
6**	12337.438	45.4	17.21	54.0	8.60	AV	264.80	150	Horizontal	Pass
6	12337.438	52.88	17.21	74.0	21.12	Peak	264.80	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band I 11ac(VHT80) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1842.500	47.8	-16.56	--	-47.80	AV	10.40	150	Vertical	N/A
1	1842.500	55.11	-16.56	68.2	13.09	Peak	10.40	150	Vertical	Pass
2**	3667.000	49.6	-7.65	54.0	4.40	AV	290.20	150	Vertical	Pass
2	3667.000	51.88	-7.65	74.0	22.12	Peak	290.20	150	Vertical	Pass
3**	3915.000	39.4	-7.57	54.0	14.60	AV	251.50	150	Vertical	Pass
3	3915.000	46.66	-7.57	74.0	27.34	Peak	251.50	150	Vertical	Pass
4**	5245.000	86.5	-2.30	--	-86.50	AV	85.30	150	Vertical	N/A
4	5245.000	90.82	-2.30	--	-5.52	Peak	85.30	150	Vertical	N/A
5**	8450.438	42.9	14.88	54.0	11.10	AV	232.80	150	Vertical	Pass
5	8450.438	48.51	14.88	74.0	25.49	Peak	232.80	150	Vertical	Pass
6**	12072.937	45.5	16.64	54.0	8.50	AV	148.90	150	Vertical	Pass
6	12072.937	52.05	16.64	74.0	21.95	Peak	148.90	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band I 11ac(VHT80) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1762.000	42.7	-17.14	--	-42.70	AV	133.30	150	Horizontal	N/A
1	1762.000	49.11	-17.14	68.2	19.09	Peak	133.30	150	Horizontal	Pass
2**	2782.000	39.3	-9.91	54.0	14.70	AV	202.70	150	Horizontal	Pass
2	2782.000	47.23	-9.91	74.0	26.77	Peak	202.70	150	Horizontal	Pass
3**	3667.000	46.9	-7.65	54.0	7.10	AV	335.60	150	Horizontal	Pass
3	3667.000	48.90	-7.65	74.0	25.10	Peak	335.60	150	Horizontal	Pass
4**	5191.000	95.7	-3.47	--	-95.70	AV	251.30	150	Horizontal	N/A
4	5191.000	100.33	-3.47	--	150.97	Peak	251.30	150	Horizontal	Pass
5**	7894.125	43.3	13.83	--	-43.30	AV	358.70	150	Horizontal	N/A
5	7894.125	48.37	13.83	68.2	19.83	Peak	358.70	150	Horizontal	Pass
6**	12426.563	46.7	17.29	54.0	7.30	AV	52.30	150	Horizontal	Pass
6	12426.563	52.91	17.29	74.0	21.09	Peak	52.30	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1848.500	37.8	-16.26	--	-37.80	AV	136.20	150	Vertical	N/A
1	1848.500	52.52	-16.26	68.2	15.68	Peak	136.20	150	Vertical	Pass
2**	3667.000	47.8	-7.65	54.0	6.20	AV	291.60	150	Vertical	Pass
2	3667.000	54.06	-7.65	74.0	19.94	Peak	291.60	150	Vertical	Pass
3**	5339.000	43.2	0.38	--	-43.20	AV	57.40	150	Vertical	N/A
3	5339.000	48.45	0.38	68.2	19.75	Peak	57.40	150	Vertical	Pass
4**	5753.000	102.1	-2.47	--	-102.10	AV	31.00	150	Vertical	N/A
4	5753.000	106.04	-2.47	--	-75.04	Peak	31.00	150	Vertical	N/A
5**	7309.063	48.2	13.97	54.0	5.80	AV	290.60	150	Vertical	Pass
5	7309.063	53.40	13.97	74.0	20.60	Peak	290.60	150	Vertical	Pass
6**	11492.187	49.6	15.51	54.0	4.40	AV	248.80	150	Vertical	Pass
6	11492.187	57.67	15.51	74.0	16.33	Peak	248.80	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1992.000	29.8	-15.37	--	-29.80	AV	44.50	150	Horizontal	N/A
1	1992.000	43.26	-15.37	68.2	24.94	Peak	44.50	150	Horizontal	Pass
2**	2693.000	33.8	-10.33	54.0	20.20	AV	196.00	150	Horizontal	Pass
2	2693.000	42.13	-10.33	74.0	31.87	Peak	196.00	150	Horizontal	Pass
3**	3667.000	46.7	-7.65	54.0	7.30	AV	202.30	150	Horizontal	Pass
3	3667.000	53.30	-7.65	74.0	20.70	Peak	202.30	150	Horizontal	Pass
4**	5748.000	102.9	-2.40	--	-102.90	AV	69.10	150	Horizontal	N/A
4	5748.000	106.43	-2.40	--	-37.33	Peak	69.10	150	Horizontal	N/A
5**	7309.063	42.2	13.97	54.0	11.80	AV	187.30	150	Horizontal	Pass
5	7309.063	50.61	13.97	74.0	23.39	Peak	187.30	150	Horizontal	Pass
6**	17233.500	54.1	17.41	--	-54.10	AV	73.60	150	Horizontal	N/A
6	17233.500	60.74	17.41	68.2	7.46	Peak	73.60	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1831.500	35.6	-16.72	--	-35.60	AV	140.70	150	Vertical	N/A
1	1831.500	53.15	-16.72	68.2	15.05	Peak	140.70	150	Vertical	Pass
2**	3667.000	47.6	-7.65	54.0	6.40	AV	290.60	150	Vertical	Pass
2	3667.000	53.79	-7.65	74.0	20.21	Peak	290.60	150	Vertical	Pass
3**	5500.000	40.2	-2.58	--	-40.20	AV	63.90	150	Vertical	N/A
3	5500.000	50.22	-2.58	68.2	17.98	Peak	63.90	150	Vertical	Pass
4**	5792.000	102.3	-2.54	--	-102.30	AV	19.90	150	Vertical	N/A
4	5792.000	105.79	-2.54	--	-85.89	Peak	19.90	150	Vertical	N/A
5**	7309.063	45.5	13.97	54.0	8.50	AV	337.50	150	Vertical	Pass
5	7309.063	51.52	13.97	74.0	22.48	Peak	337.50	150	Vertical	Pass
6**	11568.375	50.8	15.89	54.0	3.20	AV	254.70	150	Vertical	Pass
6	11568.375	56.81	15.89	74.0	17.19	Peak	254.70	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1991.500	32.5	-15.35	--	-32.50	AV	128.80	150	Horizontal	N/A
1	1991.500	44.60	-15.35	68.2	23.60	Peak	128.80	150	Horizontal	Pass
2**	3667.000	46.7	-7.65	54.0	7.30	AV	203.00	150	Horizontal	Pass
2	3667.000	52.58	-7.65	74.0	21.42	Peak	203.00	150	Horizontal	Pass
3**	4874.000	42.5	-4.53	54.0	11.50	AV	38.90	150	Horizontal	Pass
3	4874.000	53.39	-4.53	74.0	20.61	Peak	38.90	150	Horizontal	Pass
4**	5792.000	102.4	-2.54	--	-102.40	AV	60.80	150	Horizontal	N/A
4	5792.000	107.42	-2.54	--	-46.62	Peak	60.80	150	Horizontal	N/A
5**	11566.937	46.4	15.89	54.0	7.60	AV	83.80	150	Horizontal	Pass
5	11566.937	52.88	15.89	74.0	21.12	Peak	83.80	150	Horizontal	Pass
6**	17355.563	53.9	17.13	--	-53.90	AV	73.00	150	Horizontal	N/A
6	17355.563	59.17	17.13	68.2	9.03	Peak	73.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1822.500	36.7	-16.64	--	-36.70	AV	158.00	150	Vertical	N/A
1	1822.500	50.74	-16.64	68.2	17.46	Peak	158.00	150	Vertical	Pass
2**	3667.000	47.8	-7.65	54.0	6.20	AV	291.10	150	Vertical	Pass
2	3667.000	54.57	-7.65	74.0	19.43	Peak	291.10	150	Vertical	Pass
3**	5500.000	40.6	-2.58	--	-40.60	AV	69.90	150	Vertical	N/A
3	5500.000	50.50	-2.58	68.2	17.70	Peak	69.90	150	Vertical	Pass
4**	5823.000	102.5	-2.84	--	-102.50	AV	335.60	150	Vertical	N/A
4	5823.000	106.32	-2.84	--	229.28	Peak	335.60	150	Vertical	Pass
5**	7309.063	48.9	13.97	54.0	5.10	AV	249.50	150	Vertical	Pass
5	7309.063	53.36	13.97	74.0	20.64	Peak	249.50	150	Vertical	Pass
6**	11648.874	53.3	15.58	54.0	0.70	AV	67.90	150	Vertical	Pass
6	11648.874	58.26	15.58	74.0	15.74	Peak	67.90	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1994.000	29.9	-15.39	--	-29.90	AV	123.50	150	Horizontal	N/A
1	1994.000	42.73	-15.39	68.2	25.47	Peak	123.50	150	Horizontal	Pass
2**	2684.500	35.3	-10.42	--	-35.30	AV	193.80	150	Horizontal	N/A
2	2684.500	42.29	-10.42	68.2	25.91	Peak	193.80	150	Horizontal	Pass
3**	3884.000	50.6	-7.18	54.0	3.40	AV	123.80	150	Horizontal	Pass
3	3884.000	53.19	-7.18	74.0	20.81	Peak	123.80	150	Horizontal	Pass
4**	5831.000	102.0	-2.64	--	-102.00	AV	229.30	150	Horizontal	N/A
4	5831.000	106.87	-2.64	--	122.43	Peak	229.30	150	Horizontal	Pass
5**	11644.562	46.9	15.53	54.0	7.10	AV	149.90	150	Horizontal	Pass
5	11644.562	53.77	15.53	74.0	20.23	Peak	149.90	150	Horizontal	Pass
6**	17469.749	52.3	18.00	--	-52.30	AV	67.30	150	Horizontal	N/A
6	17469.749	59.06	18.00	68.2	9.14	Peak	67.30	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11n(HT20) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1835.500	38.8	-16.64	--	-38.80	AV	135.20	150	Vertical	N/A
1	1835.500	50.70	-16.64	68.2	17.50	Peak	135.20	150	Vertical	Pass
2**	3667.000	48.0	-7.65	54.0	6.00	AV	291.60	150	Vertical	Pass
2	3667.000	54.11	-7.65	74.0	19.89	Peak	291.60	150	Vertical	Pass
3**	5367.000	42.8	0.15	54.0	11.20	AV	141.30	150	Vertical	Pass
3	5367.000	49.51	0.15	74.0	24.49	Peak	141.30	150	Vertical	Pass
4**	5753.000	102.0	-2.47	--	-102.00	AV	326.80	150	Vertical	N/A
4	5753.000	105.85	-2.47	--	220.95	Peak	326.80	150	Vertical	Pass
5**	11499.375	49.8	15.54	54.0	4.20	AV	248.90	150	Vertical	Pass
5	11499.375	57.12	15.54	74.0	16.88	Peak	248.90	150	Vertical	Pass
6**	16736.062	44.1	17.00	--	-44.10	AV	169.30	150	Vertical	N/A
6	16736.062	51.26	17.00	68.2	16.94	Peak	169.30	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11n(HT20) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1995.500	38.3	-15.27	--	-38.30	AV	43.20	150	Horizontal	N/A
1	1995.500	46.67	-15.27	68.2	21.53	Peak	43.20	150	Horizontal	Pass
2**	3667.000	45.6	-7.65	54.0	8.40	AV	128.10	150	Horizontal	Pass
2	3667.000	51.77	-7.65	74.0	22.23	Peak	128.10	150	Horizontal	Pass
3**	4874.000	42.8	-4.53	54.0	11.20	AV	75.40	150	Horizontal	Pass
3	4874.000	54.78	-4.53	74.0	19.22	Peak	75.40	150	Horizontal	Pass
4**	5749.000	102.3	-2.44	--	-102.30	AV	92.90	150	Horizontal	N/A
4	5749.000	106.42	-2.44	--	-13.52	Peak	92.90	150	Horizontal	N/A
5**	11483.563	45.7	15.48	54.0	8.30	AV	149.90	150	Horizontal	Pass
5	11483.563	53.57	15.48	74.0	20.43	Peak	149.90	150	Horizontal	Pass
6**	17245.313	52.4	17.33	--	-52.40	AV	73.90	150	Horizontal	N/A
6	17245.313	57.40	17.33	68.2	10.80	Peak	73.90	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11n(HT20) Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1836.500	36.6	-16.61	--	-36.60	AV	168.40	150	Vertical	N/A
1	1836.500	50.25	-16.61	68.2	17.95	Peak	168.40	150	Vertical	Pass
2**	3857.000	49.8	-7.59	54.0	4.20	AV	73.40	150	Vertical	Pass
2	3857.000	56.10	-7.59	74.0	17.90	Peak	73.40	150	Vertical	Pass
3**	5500.000	41.4	-2.58	--	-41.40	AV	69.00	150	Vertical	N/A
3	5500.000	50.17	-2.58	68.2	18.03	Peak	69.00	150	Vertical	Pass
4**	5793.000	102.3	-2.57	--	-102.30	AV	82.30	150	Vertical	N/A
4	5793.000	105.75	-2.57	--	-23.45	Peak	82.30	150	Vertical	N/A
5**	11579.875	50.9	15.87	54.0	3.10	AV	253.70	150	Vertical	Pass
5	11579.875	56.94	15.87	74.0	17.06	Peak	253.70	150	Vertical	Pass
6**	16646.813	44.9	17.75	--	-44.90	AV	181.60	150	Vertical	N/A
6	16646.813	51.32	17.75	68.2	16.88	Peak	181.60	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11n(HT20) Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2017.000	30.3	-14.96	--	-30.30	AV	198.90	150	Horizontal	N/A
1	2017.000	43.08	-14.96	68.2	25.12	Peak	198.90	150	Horizontal	Pass
2**	3667.000	45.5	-7.65	54.0	8.50	AV	128.20	150	Horizontal	Pass
2	3667.000	52.11	-7.65	74.0	21.89	Peak	128.20	150	Horizontal	Pass
3**	5500.000	42.8	-2.58	--	-42.80	AV	57.80	150	Horizontal	N/A
3	5500.000	49.68	-2.58	68.2	18.52	Peak	57.80	150	Horizontal	Pass
4**	5777.000	100.8	-2.56	--	-100.80	AV	80.00	150	Horizontal	N/A
4	5777.000	107.43	-2.56	--	-27.43	Peak	80.00	150	Horizontal	N/A
5**	9087.250	43.8	15.67	54.0	10.20	AV	78.20	150	Horizontal	Pass
5	9087.250	49.91	15.67	74.0	24.09	Peak	78.20	150	Horizontal	Pass
6**	17367.376	52.8	17.20	--	-52.80	AV	68.90	150	Horizontal	N/A
6	17367.376	60.68	17.20	68.2	7.52	Peak	68.90	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11n(HT20) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1848.500	40.5	-16.26	--	-40.50	AV	162.90	150	Vertical	N/A
1	1848.500	49.93	-16.26	68.2	18.27	Peak	162.90	150	Vertical	Pass
2**	3667.000	47.9	-7.65	54.0	6.10	AV	291.90	150	Vertical	Pass
2	3667.000	54.19	-7.65	74.0	19.81	Peak	291.90	150	Vertical	Pass
3**	5817.000	100.0	-3.00	--	-100.00	AV	331.20	150	Vertical	N/A
3	5817.000	106.22	-3.00	--	224.98	Peak	331.20	150	Vertical	Pass
4**	7311.938	49.0	13.96	54.0	5.00	AV	166.60	150	Vertical	Pass
4	7311.938	52.28	13.96	74.0	21.72	Peak	166.60	150	Vertical	Pass
5**	11646.000	51.4	15.55	54.0	2.60	AV	249.70	150	Vertical	Pass
5	11646.000	58.07	15.55	74.0	15.93	Peak	249.70	150	Vertical	Pass
6**	16946.062	45.7	17.23	--	-45.70	AV	160.10	150	Vertical	N/A
6	16946.062	50.82	17.23	68.2	17.38	Peak	160.10	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11n(HT20) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1816.500	30.8	-16.87	--	-30.80	AV	179.90	150	Horizontal	N/A
1	1816.500	46.20	-16.87	68.2	22.00	Peak	179.90	150	Horizontal	Pass
2**	3884.000	50.8	-7.18	54.0	3.20	AV	123.20	150	Horizontal	Pass
2	3884.000	53.84	-7.18	74.0	20.16	Peak	123.20	150	Horizontal	Pass
3**	4874.000	42.0	-4.53	54.0	12.00	AV	78.80	150	Horizontal	Pass
3	4874.000	53.64	-4.53	74.0	20.36	Peak	78.80	150	Horizontal	Pass
4**	5819.000	104.7	-3.07	--	-104.70	AV	78.80	150	Horizontal	N/A
4	5819.000	106.83	-3.07	--	-28.03	Peak	78.80	150	Horizontal	N/A
5**	9104.500	43.8	15.60	54.0	10.20	AV	359.50	150	Horizontal	Pass
5	9104.500	49.50	15.60	74.0	24.50	Peak	359.50	150	Horizontal	Pass
6**	17482.875	54.7	18.34	--	-54.70	AV	73.30	150	Horizontal	N/A
6	17482.875	59.35	18.34	68.2	8.85	Peak	73.30	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11n(HT40) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1835.500	46.7	-16.64	--	-46.70	AV	143.70	150	Vertical	N/A
1	1835.500	54.52	-16.64	68.2	13.68	Peak	143.70	150	Vertical	Pass
2**	3667.000	47.4	-7.65	54.0	6.60	AV	291.70	150	Vertical	Pass
2	3667.000	53.80	-7.65	74.0	20.20	Peak	291.70	150	Vertical	Pass
3**	4874.000	42.0	-4.53	54.0	12.00	AV	282.80	150	Vertical	Pass
3	4874.000	55.80	-4.53	74.0	18.20	Peak	282.80	150	Vertical	Pass
4**	5805.000	99.0	-2.87	--	-99.00	AV	83.90	150	Vertical	N/A
4	5805.000	104.30	-2.87	--	-20.40	Peak	83.90	150	Vertical	N/A
5**	7311.938	49.9	13.96	54.0	4.10	AV	104.10	150	Vertical	Pass
5	7311.938	55.58	13.96	74.0	18.42	Peak	104.10	150	Vertical	Pass
6**	11584.187	50.1	15.91	54.0	3.90	AV	248.80	150	Vertical	Pass
6	11584.187	55.71	15.91	74.0	18.29	Peak	248.80	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11n(HT40) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1995.000	30.4	-15.31	--	-30.40	AV	126.80	150	Horizontal	N/A
1	1995.000	42.15	-15.31	68.2	26.05	Peak	126.80	150	Horizontal	Pass
2**	3864.000	50.3	-7.68	54.0	3.70	AV	119.20	150	Horizontal	Pass
2	3864.000	53.22	-7.68	74.0	20.78	Peak	119.20	150	Horizontal	Pass
3**	4874.000	39.2	-4.53	54.0	14.80	AV	101.60	150	Horizontal	Pass
3	4874.000	50.32	-4.53	74.0	23.68	Peak	101.60	150	Horizontal	Pass
4**	5794.000	100.8	-2.62	--	-100.80	AV	92.70	150	Horizontal	N/A
4	5794.000	107.20	-2.62	--	-14.50	Peak	92.70	150	Horizontal	N/A
5**	8473.438	41.9	14.94	54.0	12.10	AV	352.00	150	Horizontal	Pass
5	8473.438	49.29	14.94	74.0	24.71	Peak	352.00	150	Horizontal	Pass
6**	17402.812	51.5	17.22	--	-51.50	AV	69.30	150	Horizontal	N/A
6	17402.812	56.87	17.22	68.2	11.33	Peak	69.30	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11n(HT40) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1881.500	41.0	-16.25	--	-41.00	AV	164.70	150	Vertical	N/A
1	1881.500	50.64	-16.25	68.2	17.56	Peak	164.70	150	Vertical	Pass
2**	3837.000	49.2	-7.19	54.0	4.80	AV	74.10	150	Vertical	Pass
2	3837.000	55.74	-7.19	74.0	18.26	Peak	74.10	150	Vertical	Pass
3**	5500.000	41.4	-2.58	--	-41.40	AV	69.50	150	Vertical	N/A
3	5500.000	49.18	-2.58	68.2	19.02	Peak	69.50	150	Vertical	Pass
4**	5766.000	99.2	-2.66	--	-99.20	AV	16.70	150	Vertical	N/A
4	5766.000	103.81	-2.66	--	-87.11	Peak	16.70	150	Vertical	N/A
5**	11518.063	49.4	15.61	54.0	4.60	AV	51.60	150	Vertical	Pass
5	11518.063	56.44	15.61	74.0	17.56	Peak	51.60	150	Vertical	Pass
6**	16604.812	44.9	17.63	--	-44.90	AV	182.20	150	Vertical	N/A
6	16604.812	51.37	17.63	68.2	16.83	Peak	182.20	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11n(HT40) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1892.500	30.1	-16.13	--	-30.10	AV	113.50	150	Horizontal	N/A
1	1892.500	42.44	-16.13	68.2	25.76	Peak	113.50	150	Horizontal	Pass
2**	3667.000	45.8	-7.65	54.0	8.20	AV	206.40	150	Horizontal	Pass
2	3667.000	52.36	-7.65	74.0	21.64	Peak	206.40	150	Horizontal	Pass
3**	4874.000	40.3	-4.53	54.0	13.70	AV	25.90	150	Horizontal	Pass
3	4874.000	50.33	-4.53	74.0	23.67	Peak	25.90	150	Horizontal	Pass
4**	5770.000	100.8	-2.59	--	-100.80	AV	83.00	150	Horizontal	N/A
4	5770.000	106.12	-2.59	--	-23.12	Peak	83.00	150	Horizontal	N/A
5**	11508.000	46.1	15.57	54.0	7.90	AV	177.30	150	Horizontal	Pass
5	11508.000	52.16	15.57	74.0	21.84	Peak	177.30	150	Horizontal	Pass
6**	17255.813	45.1	17.38	--	-45.10	AV	63.60	150	Horizontal	N/A
6	17255.813	54.06	17.38	68.2	14.14	Peak	63.60	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac(VHT20) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1889.500	37.3	-16.11	--	-37.30	AV	163.60	150	Vertical	N/A
1	1889.500	48.68	-16.11	68.2	19.52	Peak	163.60	150	Vertical	Pass
2**	3667.000	48.0	-7.65	54.0	6.00	AV	291.40	150	Vertical	Pass
2	3667.000	54.07	-7.65	74.0	19.93	Peak	291.40	150	Vertical	Pass
3**	5753.000	101.8	-2.47	--	-101.80	AV	326.60	150	Vertical	N/A
3	5753.000	105.29	-2.47	--	221.31	Peak	326.60	150	Vertical	Pass
4**	7310.500	47.9	13.97	54.0	6.10	AV	108.80	150	Vertical	Pass
4	7310.500	53.25	13.97	74.0	20.75	Peak	108.80	150	Vertical	Pass
5**	11499.375	50.9	15.54	54.0	3.10	AV	248.30	150	Vertical	Pass
5	11499.375	56.00	15.54	74.0	18.00	Peak	248.30	150	Vertical	Pass
6**	17578.689	45.3	19.13	--	-45.30	AV	261.50	150	Vertical	N/A
6	17578.689	51.66	19.13	68.2	16.54	Peak	261.50	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac(VHT20) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1994.000	33.0	-15.39	--	-33.00	AV	126.90	150	Horizontal	N/A
1	1994.000	45.74	-15.39	68.2	22.46	Peak	126.90	150	Horizontal	Pass
2**	3667.000	46.8	-7.65	54.0	7.20	AV	203.20	150	Horizontal	Pass
2	3667.000	52.70	-7.65	74.0	21.30	Peak	203.20	150	Horizontal	Pass
3**	4875.000	53.7	-4.55	54.0	0.30	AV	74.20	150	Horizontal	Pass
3	4875.000	54.99	-4.55	74.0	19.01	Peak	74.20	150	Horizontal	Pass
4**	5753.000	102.6	-2.47	--	-102.60	AV	74.20	150	Horizontal	N/A
4	5753.000	106.94	-2.47	--	-32.74	Peak	74.20	150	Horizontal	N/A
5**	11502.250	46.3	15.55	54.0	7.70	AV	73.20	150	Horizontal	Pass
5	11502.250	52.43	15.55	74.0	21.57	Peak	73.20	150	Horizontal	Pass
6**	17242.687	49.3	17.32	--	-49.30	AV	72.80	150	Horizontal	N/A
6	17242.687	56.26	17.32	68.2	11.94	Peak	72.80	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac(VHT20) Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1849.000	33.4	-16.22	--	-33.40	AV	166.20	150	Vertical	N/A
1	1849.000	52.72	-16.22	68.2	15.48	Peak	166.20	150	Vertical	Pass
2**	3857.000	49.9	-7.59	54.0	4.10	AV	73.90	150	Vertical	Pass
2	3857.000	56.22	-7.59	74.0	17.78	Peak	73.90	150	Vertical	Pass
3**	5500.000	41.1	-2.58	--	-41.10	AV	73.90	150	Vertical	N/A
3	5500.000	49.37	-2.58	68.2	18.83	Peak	73.90	150	Vertical	Pass
4**	5787.000	100.9	-2.48	--	-100.90	AV	86.90	150	Vertical	N/A
4	5787.000	106.09	-2.48	--	-19.19	Peak	86.90	150	Vertical	N/A
5**	7310.500	50.5	13.97	54.0	3.50	AV	259.60	150	Vertical	Pass
5	7310.500	53.59	13.97	74.0	20.41	Peak	259.60	150	Vertical	Pass
6**	11565.500	51.4	15.88	54.0	2.60	AV	254.40	150	Vertical	Pass
6	11565.500	57.32	15.88	74.0	16.68	Peak	254.40	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac(VHT20) Middle channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1752.500	42.9	-17.15	--	-42.90	AV	27.00	150	Horizontal	N/A
1	1752.500	48.02	-17.15	68.2	20.18	Peak	27.00	150	Horizontal	Pass
2**	3857.000	46.9	-7.59	54.0	7.10	AV	123.30	150	Horizontal	Pass
2	3857.000	53.21	-7.59	74.0	20.79	Peak	123.30	150	Horizontal	Pass
3**	4874.000	39.9	-4.53	54.0	14.10	AV	61.30	150	Horizontal	Pass
3	4874.000	51.95	-4.53	74.0	22.05	Peak	61.30	150	Horizontal	Pass
4**	5778.000	102.8	-2.62	--	-102.80	AV	83.70	150	Horizontal	N/A
4	5778.000	107.52	-2.62	--	-23.82	Peak	83.70	150	Horizontal	N/A
5**	11569.812	47.4	15.89	54.0	6.60	AV	161.00	150	Horizontal	Pass
5	11569.812	54.64	15.89	74.0	19.36	Peak	161.00	150	Horizontal	Pass
6**	17351.625	51.9	16.99	--	-51.90	AV	72.90	150	Horizontal	N/A
6	17351.625	58.99	16.99	68.2	9.21	Peak	72.90	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac(VHT20) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1826.000	36.1	-16.70	--	-36.10	AV	140.40	150	Vertical	N/A
1	1826.000	51.23	-16.70	68.2	16.97	Peak	140.40	150	Vertical	Pass
2**	3667.000	47.7	-7.65	54.0	6.30	AV	291.00	150	Vertical	Pass
2	3667.000	54.24	-7.65	74.0	19.76	Peak	291.00	150	Vertical	Pass
3**	4875.000	52.7	-4.55	54.0	1.30	AV	28.50	150	Vertical	Pass
3	4875.000	53.79	-4.55	74.0	20.21	Peak	28.50	150	Vertical	Pass
4**	5833.000	101.9	-2.53	--	-101.90	AV	331.10	150	Vertical	N/A
4	5833.000	106.11	-2.53	--	224.99	Peak	331.10	150	Vertical	Pass
5**	11644.562	51.8	15.53	54.0	2.20	AV	255.80	150	Vertical	Pass
5	11644.562	57.46	15.53	74.0	16.54	Peak	255.80	150	Vertical	Pass
6**	17478.937	51.1	18.27	--	-51.10	AV	80.10	150	Vertical	N/A
6	17478.937	54.90	18.27	68.2	13.30	Peak	80.10	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac(VHT20) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1991.500	38.8	-15.35	--	-38.80	AV	132.70	150	Horizontal	N/A
1	1991.500	46.13	-15.35	68.2	22.07	Peak	132.70	150	Horizontal	Pass
2**	3667.000	46.5	-7.65	54.0	7.50	AV	202.70	150	Horizontal	Pass
2	3667.000	53.02	-7.65	74.0	20.98	Peak	202.70	150	Horizontal	Pass
3**	4874.000	43.5	-4.53	54.0	10.50	AV	52.70	150	Horizontal	Pass
3	4874.000	53.97	-4.53	74.0	20.03	Peak	52.70	150	Horizontal	Pass
4**	5833.000	102.5	-2.53	--	-102.50	AV	233.50	150	Horizontal	N/A
4	5833.000	107.05	-2.53	--	126.45	Peak	233.50	150	Horizontal	Pass
5**	11650.312	46.8	15.60	54.0	7.20	AV	176.60	150	Horizontal	Pass
5	11650.312	52.91	15.60	74.0	21.09	Peak	176.60	150	Horizontal	Pass
6**	17461.875	45.4	17.78	--	-45.40	AV	73.80	150	Horizontal	N/A
6	17461.875	54.35	17.78	68.2	13.85	Peak	73.80	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac(VHT40) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1862.000	49.3	-16.02	--	-49.30	AV	157.00	150	Vertical	N/A
1	1862.000	58.38	-16.02	68.2	9.82	Peak	157.00	150	Vertical	Pass
2**	3017.000	39.7	-8.84	--	-39.70	AV	113.40	150	Vertical	N/A
2	3017.000	45.90	-8.84	68.2	22.30	Peak	113.40	150	Vertical	Pass
3**	3667.000	51.2	-7.65	54.0	2.80	AV	295.20	150	Vertical	Pass
3	3667.000	53.29	-7.65	74.0	20.71	Peak	295.20	150	Vertical	Pass
4**	5762.000	100.0	-2.61	--	-100.00	AV	82.30	150	Vertical	N/A
4	5762.000	104.20	-2.61	--	-21.90	Peak	82.30	150	Vertical	N/A
5**	9988.563	42.9	15.43	--	-42.90	AV	228.50	150	Vertical	N/A
5	9988.563	49.64	15.43	68.2	18.56	Peak	228.50	150	Vertical	Pass
6**	11520.938	51.2	15.62	54.0	2.80	AV	244.00	150	Vertical	Pass
6	11520.938	55.28	15.62	74.0	18.72	Peak	244.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac(VHT40) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1753.000	42.4	-17.17	--	-42.40	AV	256.40	150	Horizontal	N/A
1	1753.000	47.05	-17.17	68.2	21.15	Peak	256.40	150	Horizontal	Pass
2**	3667.000	51.4	-7.65	54.0	2.60	AV	206.00	150	Horizontal	Pass
2	3667.000	53.34	-7.65	74.0	20.66	Peak	206.00	150	Horizontal	Pass
3**	4874.000	49.4	-4.53	54.0	4.60	AV	46.30	150	Horizontal	Pass
3	4874.000	54.40	-4.53	74.0	19.60	Peak	46.30	150	Horizontal	Pass
4**	5762.000	100.9	-2.61	--	-100.90	AV	64.40	150	Horizontal	N/A
4	5762.000	106.72	-2.61	--	-42.32	Peak	64.40	150	Horizontal	N/A
5**	11516.625	46.8	15.61	54.0	7.20	AV	101.40	150	Horizontal	Pass
5	11516.625	51.73	15.61	74.0	22.27	Peak	101.40	150	Horizontal	Pass
6**	17280.750	54.6	17.34	--	-54.60	AV	71.20	150	Horizontal	N/A
6	17280.750	59.54	17.34	68.2	8.66	Peak	71.20	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac(VHT40) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1859.500	48.7	-16.15	--	-48.70	AV	162.50	150	Vertical	N/A
1	1859.500	59.54	-16.15	68.2	8.66	Peak	162.50	150	Vertical	Pass
2**	3667.000	51.3	-7.65	54.0	2.70	AV	296.00	150	Vertical	Pass
2	3667.000	53.40	-7.65	74.0	20.60	Peak	296.00	150	Vertical	Pass
3**	4874.000	55.5	-4.53	54.0	-1.50	AV	220.40	150	Vertical	Fail
3	4874.000	59.89	-4.53	74.0	14.11	Peak	220.40	150	Vertical	Pass
4**	5803.000	98.9	-2.88	--	-98.90	AV	15.60	150	Vertical	N/A
4	5803.000	104.02	-2.88	--	-88.42	Peak	15.60	150	Vertical	N/A
5**	11579.875	49.9	15.87	54.0	4.10	AV	48.70	150	Vertical	Pass
5	11579.875	55.02	15.87	74.0	18.98	Peak	48.70	150	Vertical	Pass
6**	17513.062	44.9	19.03	--	-44.90	AV	207.10	150	Vertical	N/A
6	17513.062	51.17	19.03	68.2	17.03	Peak	207.10	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac(VHT40) High channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1764.000	42.3	-17.08	--	-42.30	AV	116.20	150	Horizontal	N/A
1	1764.000	45.67	-17.08	68.2	22.53	Peak	116.20	150	Horizontal	Pass
2**	3667.000	51.6	-7.65	54.0	2.40	AV	208.20	150	Horizontal	Pass
2	3667.000	53.62	-7.65	74.0	20.38	Peak	208.20	150	Horizontal	Pass
3**	4874.000	46.7	-4.53	54.0	7.30	AV	127.50	150	Horizontal	Pass
3	4874.000	50.53	-4.53	74.0	23.47	Peak	127.50	150	Horizontal	Pass
4**	5780.000	101.4	-2.58	--	-101.40	AV	78.50	150	Horizontal	N/A
4	5780.000	105.82	-2.58	--	-27.32	Peak	78.50	150	Horizontal	N/A
5**	11584.187	46.9	15.91	54.0	7.10	AV	147.10	150	Horizontal	Pass
5	11584.187	53.06	15.91	74.0	20.94	Peak	147.10	150	Horizontal	Pass
6**	17356.876	47.4	17.18	--	-47.40	AV	76.20	150	Horizontal	N/A
6	17356.876	57.88	17.18	68.2	10.32	Peak	76.20	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V Band IV 11ac(VHT80) Low channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1864.500	44.8	-16.04	--	-44.80	AV	148.00	150	Vertical	N/A
1	1864.500	56.61	-16.04	68.2	11.59	Peak	148.00	150	Vertical	Pass
2**	3666.000	50.9	-7.69	54.0	3.10	AV	295.10	150	Vertical	Pass
2	3666.000	53.21	-7.69	74.0	20.79	Peak	295.10	150	Vertical	Pass
3**	5499.000	45.1	-2.61	--	-45.10	AV	55.60	150	Vertical	N/A
3	5499.000	49.29	-2.61	68.2	18.91	Peak	55.60	150	Vertical	Pass
4**	5780.000	94.3	-2.58	--	-94.30	AV	82.20	150	Vertical	N/A
4	5780.000	99.07	-2.58	--	-16.87	Peak	82.20	150	Vertical	N/A
5**	7307.625	48.2	13.95	54.0	5.80	AV	240.70	150	Vertical	Pass
5	7307.625	54.59	13.95	74.0	19.41	Peak	240.70	150	Vertical	Pass
6**	11562.625	48.0	15.87	54.0	6.00	AV	54.20	150	Vertical	Pass
6	11562.625	54.34	15.87	74.0	19.66	Peak	54.20	150	Vertical	Pass

1 GHz to 18 GHz, ANT H Band IV 11ac(VHT80) Low channel

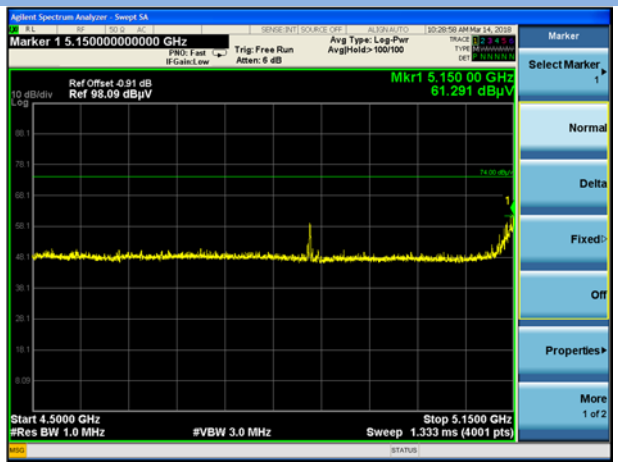
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1994.500	40.3	-15.35	--	-40.30	AV	117.60	150	Horizontal	N/A
1	1994.500	46.28	-15.35	68.2	21.92	Peak	117.60	150	Horizontal	Pass
2**	3666.000	51.1	-7.69	54.0	2.90	AV	209.30	150	Horizontal	Pass
2	3666.000	53.78	-7.69	74.0	20.22	Peak	209.30	150	Horizontal	Pass
3**	4874.000	49.3	-4.53	54.0	4.70	AV	41.70	150	Horizontal	Pass
3	4874.000	52.41	-4.53	74.0	21.59	Peak	41.70	150	Horizontal	Pass
4**	5787.000	99.3	-2.48	--	-99.30	AV	86.00	150	Horizontal	N/A
4	5787.000	103.64	-2.48	--	-17.64	Peak	86.00	150	Horizontal	N/A
5**	11574.125	45.3	15.90	54.0	8.70	AV	101.60	150	Horizontal	Pass
5	11574.125	53.11	15.90	74.0	20.89	Peak	101.60	150	Horizontal	Pass
6**	16603.500	44.9	17.68	--	-44.90	AV	285.60	150	Horizontal	N/A
6	16603.500	51.28	17.68	68.2	16.92	Peak	285.60	150	Horizontal	Pass

A.7.2 Band Edge (Restricted-band)

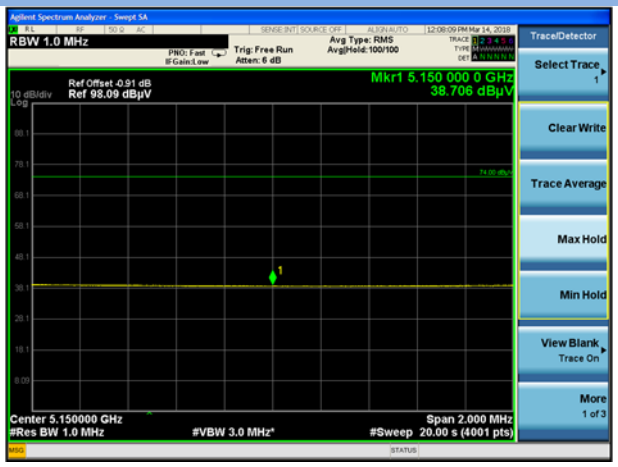
Test Band	Mode	Channel	Verdict
Band I	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Low	Pass
Band IV	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass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

Test Data

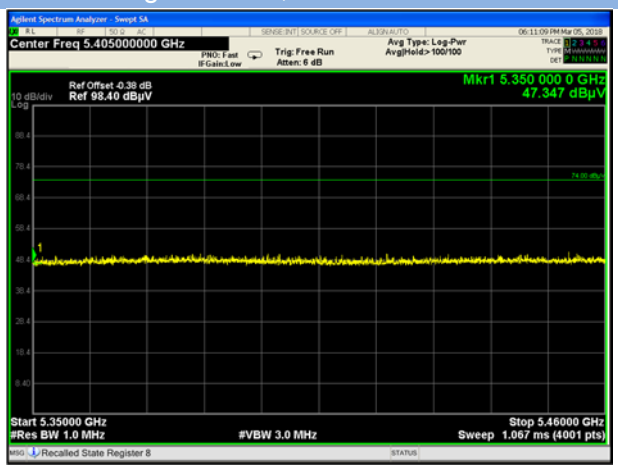
Band I 11a Low channel, PEAK



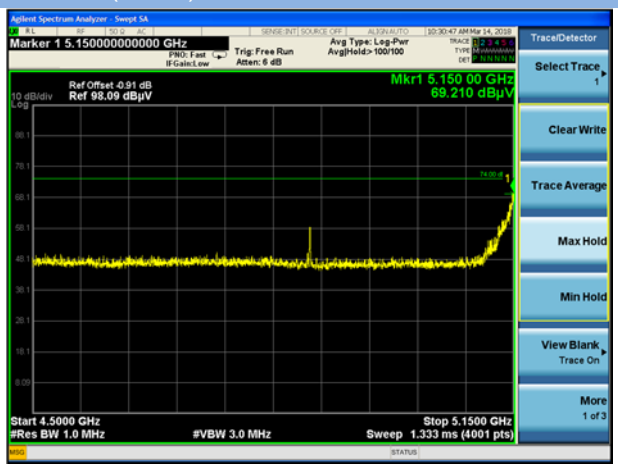
Band I 11a Low channel, AVERAGE



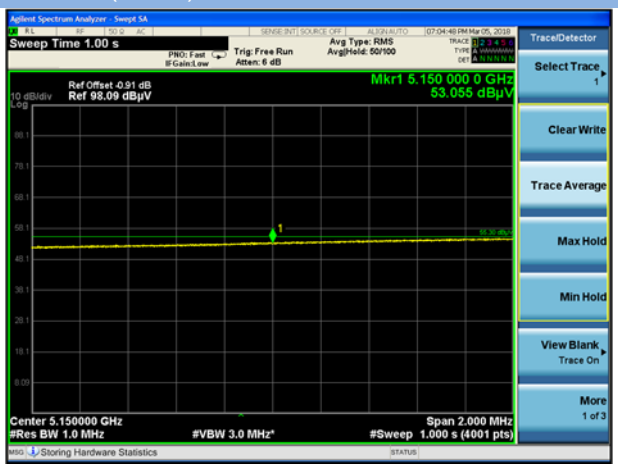
Band I 11a High channel, PEAK



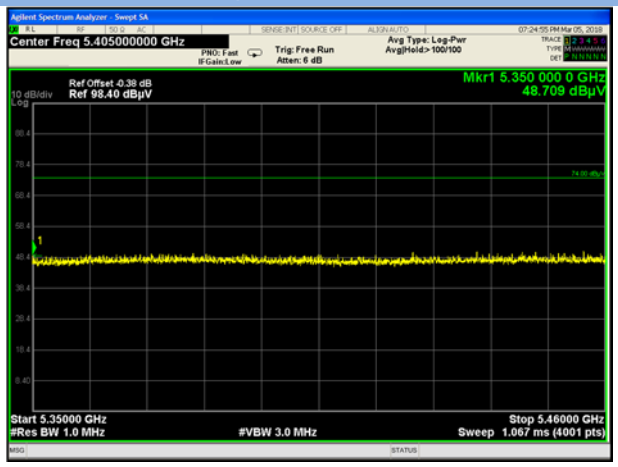
Band I 11n(HT20) Low channel, PEAK



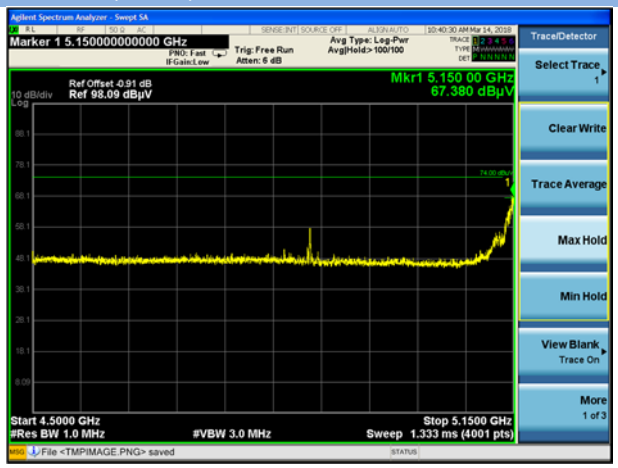
Band I 11n(HT20) Low channel, AVERAGE



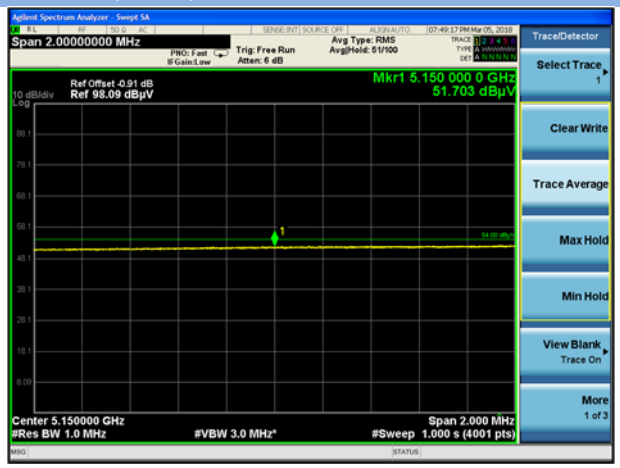
Band I 11n(HT20) High channel, PEAK



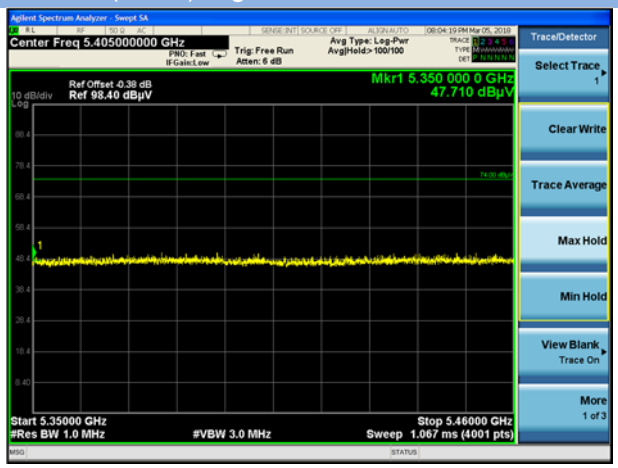
Band I 11n(HT40) Low channel, PEAK



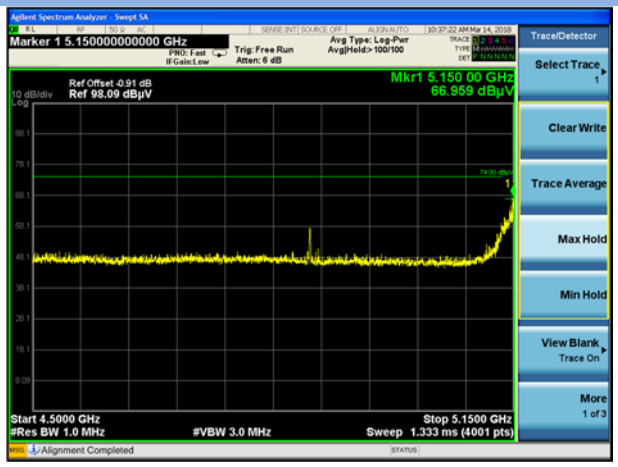
Band I 11n(HT40) Low channel, AVERAGE



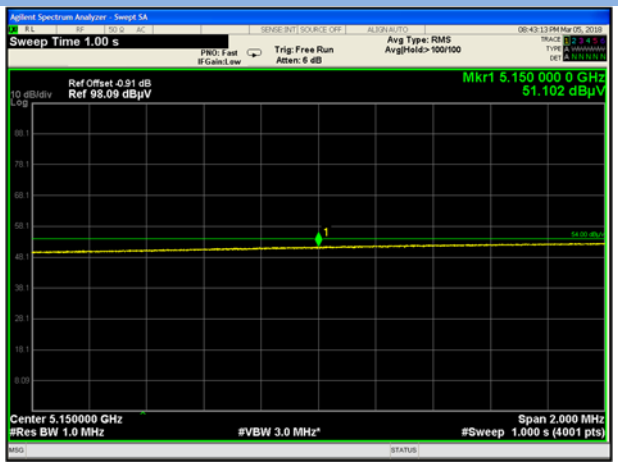
Band I 11n(HT40) High channel, PEAK



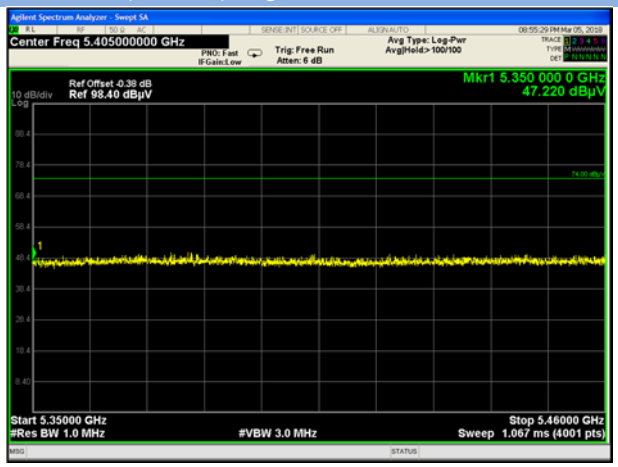
Band I 11ac(VHT20) Low channel, PEAK



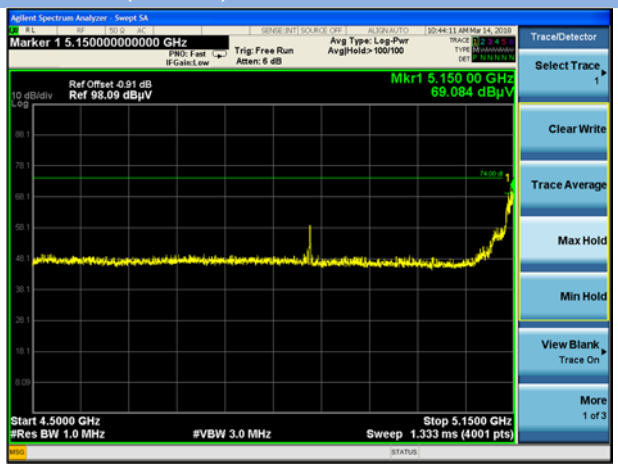
Band I 11ac(VHT20) Low channel, AVERAGE



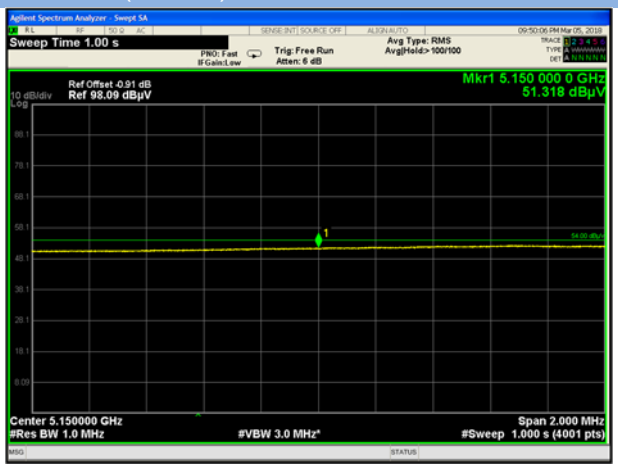
Band I 11ac(VHT20) High channel, PEAK



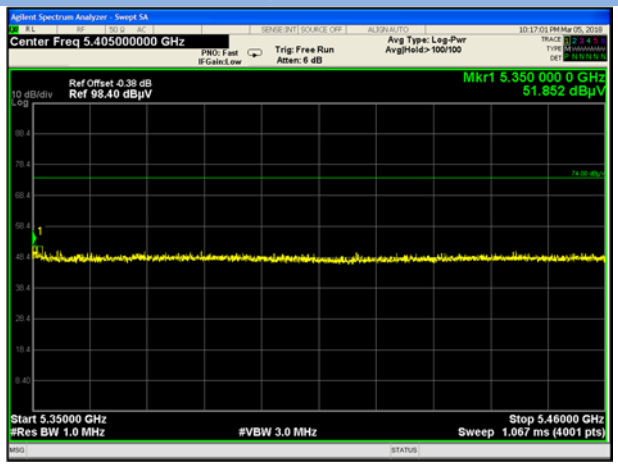
Band I 11ac(VHT40) Low channel, PEAK



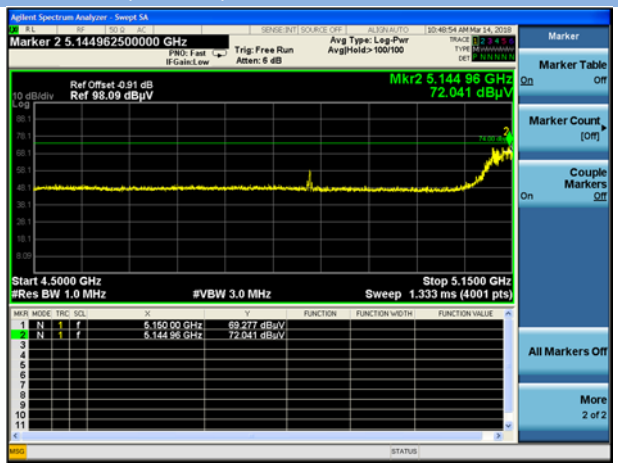
Band I 11ac(VHT40) Low channel, AVERAGE



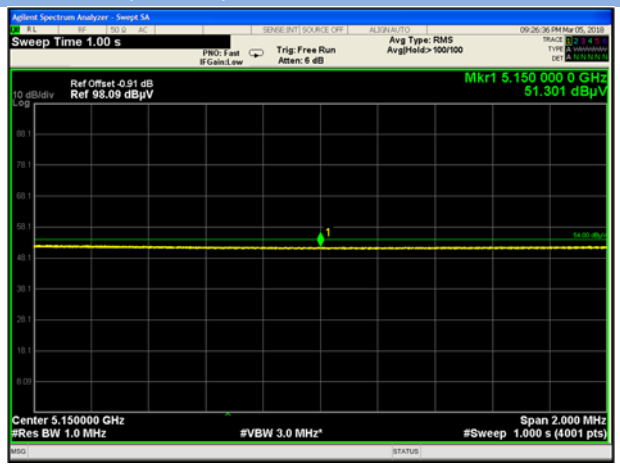
Band I 11ac(VHT40) High channel, PEAK



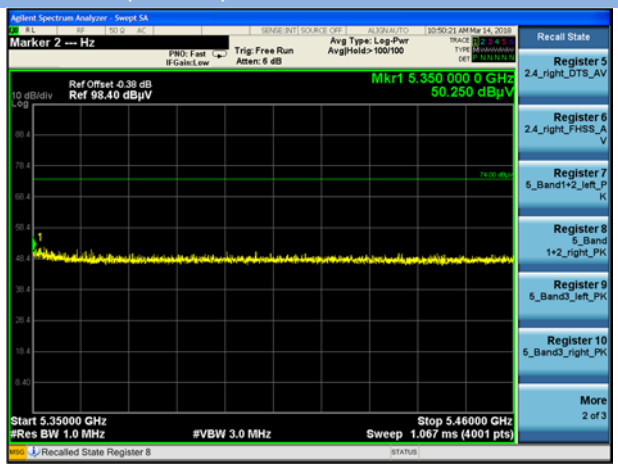
Band I 11ac(VHT80) Low channel, PEAK



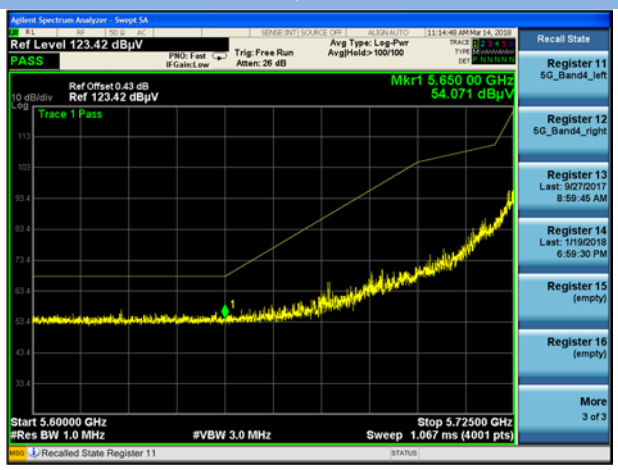
Band I 11ac(VHT80) Low channel, AVERAGE



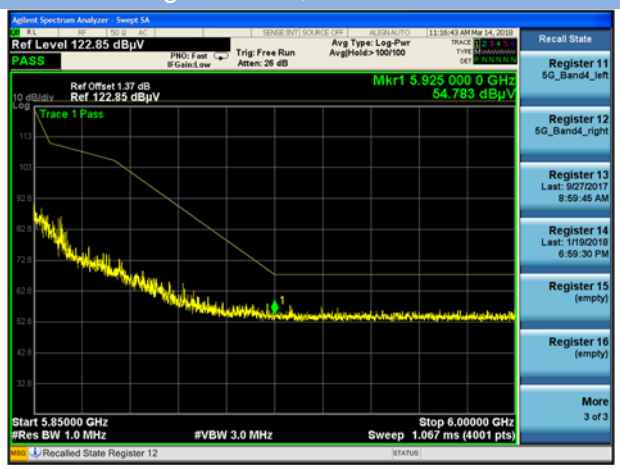
Band I 11ac(VHT80) Low channel, PEAK



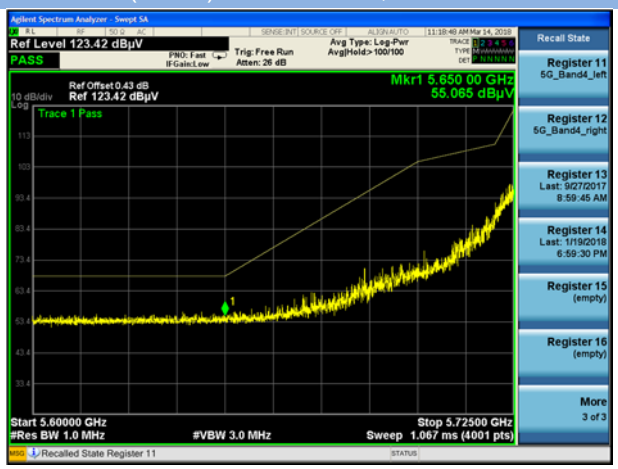
Band IV 11a Low channel, PEAK



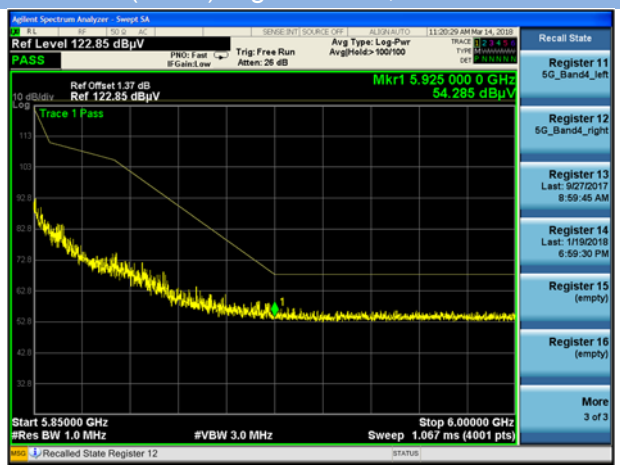
Band IV 11a High channel, PEAK



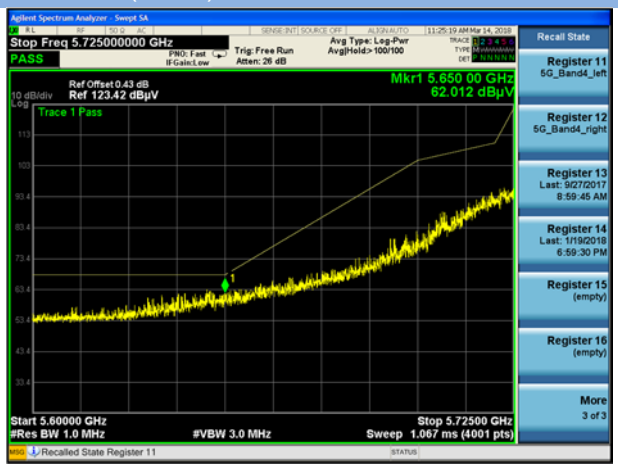
Band IV 11n(HT20) Low channel, PEAK



Band IV 11n(HT20) High channel, PEAK

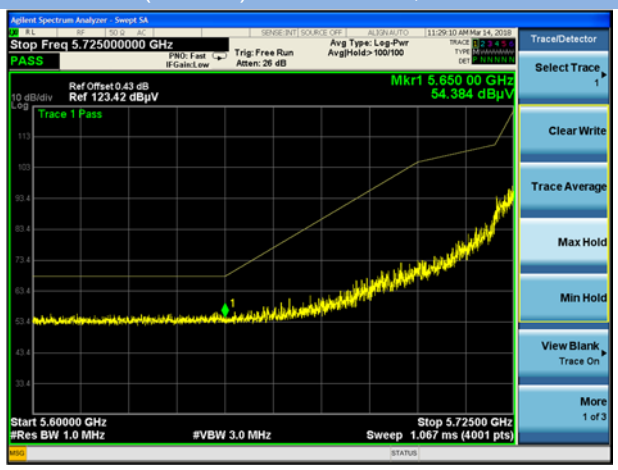


Band IV 11n(HT40) Low channel, PEAK

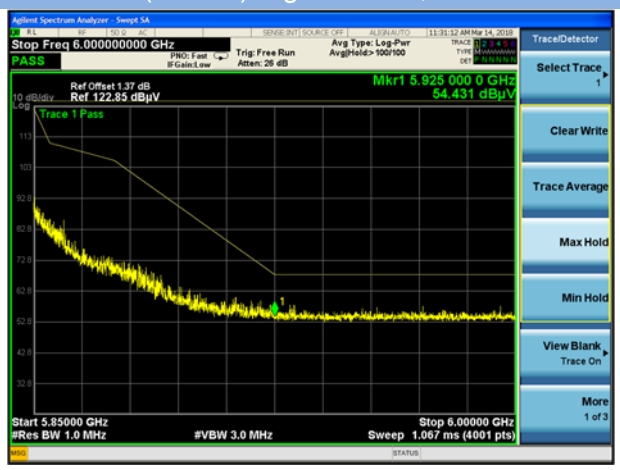


Band IV 11n(HT40) High channel, PEAK

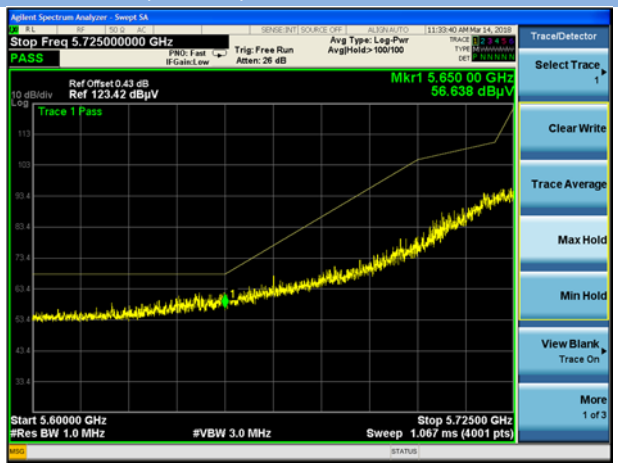
Band IV 11ac(VHT20) Low channel, PEAK



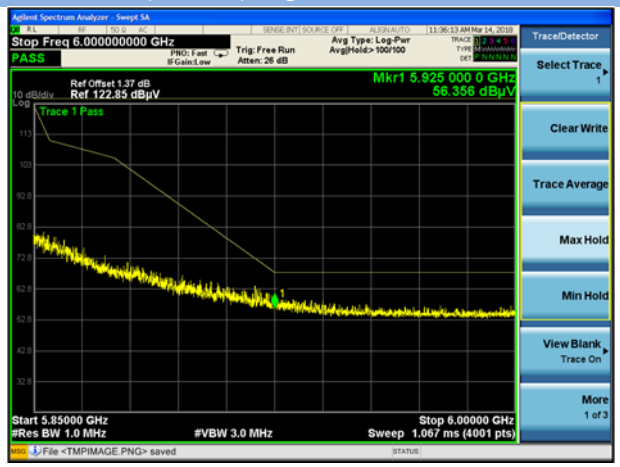
Band IV 11ac(VHT20) High channel, PEAK



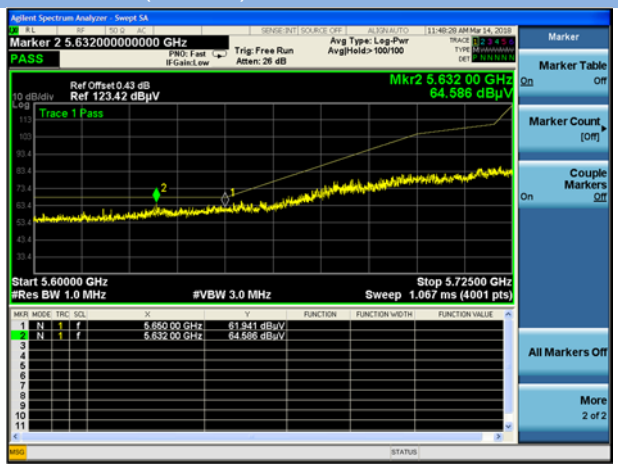
Band IV 11ac(VHT40) Low channel, PEAK



Band IV 11ac(VHT40) High channel, PEAK



Band IV 11ac(VHT80) Low channel, PEAK



Band IV 11ac(VHT80) High channel, PEAK

est Data and Plot

A.8 Frequency Stability

Measurement Data (the worst channel)

ANT 0

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	110	5180	5179.980470	-3.77	5179.959886	-7.74	5179.997991	-0.39	5179.991146	-1.71
	120	5180	5180.004922	0.95	5180.015985	3.09	5180.002687	0.52	5180.048895	9.44
	130	5180	5180.027226	5.26	5180.007182	1.39	5180.016990	3.28	5180.008880	1.71

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)
120	0	5180	5179.958418	-8.03	5179.994571	-1.05	5179.979080	-4.04	5179.976965	-4.45
	10	5180	5180.047766	9.22	5180.036808	7.11	5180.005266	1.02	5180.029588	5.71
	20	5180	5180.031989	6.18	5180.048784	9.42	5180.039714	7.67	5180.026544	5.12
	30	5180	5180.002369	0.46	5180.007695	1.49	5180.001251	0.24	5180.046614	9.00
	40	5180	5179.997829	-0.42	5179.953618	-8.95	5179.998829	-0.23	5179.970552	-5.68

ANT 1

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	110	5180	5179.968797	-6.02	5179.982663	-3.35	5179.976862	-4.47	5179.983180	-3.25
	120	5180	5180.007981	1.54	5180.024227	4.68	5180.035555	6.86	5180.039230	7.57
	130	5180	5180.017752	3.43	5180.012434	2.40	5180.045967	8.87	5180.041668	8.04

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)
120	0	5180	5179.951583	-9.35	5179.996864	-0.61	5179.985609	-2.78	5179.999202	-0.15
	10	5180	5180.048173	9.30	5180.038261	7.39	5180.038263	7.39	5180.022114	4.27
	20	5180	5180.000495	0.10	5180.004085	0.79	5180.016262	3.14	5180.027648	5.34
	30	5180	5180.011495	2.22	5180.007845	1.51	5180.014964	2.89	5180.017469	3.37
	40	5180	5179.985986	-2.71	5179.958376	-8.04	5179.992648	-1.42	5179.988026	-2.31

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ1810291-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ1810291-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ1810291-AI.PDF”.

--END OF REPORT--