

# TEST REPORT

**Applicant:** Arashi Vision Inc.  
**Address:** Foresea Life Center, Tower 2, 11F, Shenzhen, Guangdong, P.R. China  
**Equipment Type:** Insta360 Sphere  
**Model Name:** CINSTAW/A  
**Brand Name:** Insta360  
**FCC ID:** 2AWWH-CINSTAW-A  
**Test Standard:** 47 CFR Part 15 Subpart E (refer section 3.1)  
**Test Date:** Nov. 30, 2021 - Dec. 25, 2021  
**Date of Issue:** Apr. 26, 2022

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu

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**Approved by:** Liao Jianming  
(Technical Director)

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<b>Revision History</b>		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 26, 2022</u>	<u>Initial Issue</u>

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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, 1/F, Baisha Science and Technology Park Shahe Xi Road, Nanshan District Shenzhen, Guangdong Province, People's Republic of 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, 1/F, Baisha Science and Technology Park Shahe Xi Road, Nanshan District Shenzhen, Guangdong Province, People's Republic of China
Description	All measurement facilities used to collect the measurement data are located at Block B, 1/F, Baisha Science and Technology Park Shahe Xi Road, Nanshan District Shenzhen, Guangdong Province, People's Republic of China

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Arashi Vision Inc.
Address	Foresea Life Center, Tower 2, 11F, Shenzhen, Guangdong, P.R. China

### 2.2 Manufacturer Information

Manufacturer	Arashi Vision Inc.
Address	Foresea Life Center, Tower 2, 11F, Shenzhen, Guangdong, P.R. China

### 2.3 Factory Information

Factory	Arashi Vision Inc.
Address	Foresea Life Center, Tower 2, 11F, Shenzhen, Guangdong, P.R. China

### 2.4 General Description for Equipment under Test (EUT)

EUT Name	Insta360 Sphere
Model Name Under Test	CINSTAW/A
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V0.1
Software Version	v1.0.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

## 2.5 Technical Information

Network and Wireless connectivity	Bluetooth BLE WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac U-NII-1/3
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Product Type	Mobile for FCC standard
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 9.48 dBm U-NII-3: 8.32 dBm
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	FPC Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 2.50 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.94 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)
About the Product	The equipment is Camera, intended for used with information technology equipment.

## 2.6 Additional Instructions

EUT Software Settings:

Mode	<input checked="" type="checkbox"/> Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
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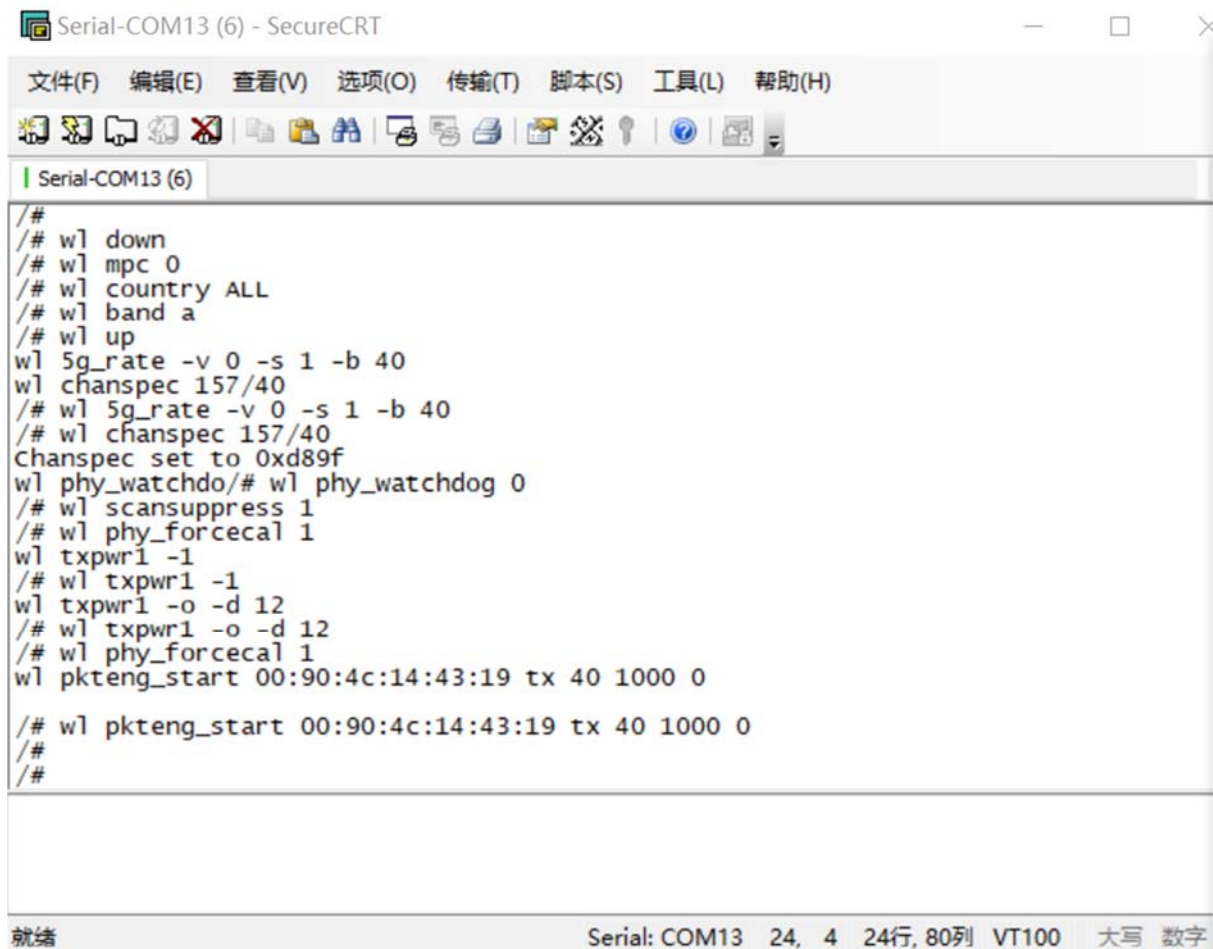
During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test Software Version	SecureCRT		
Support Units (Software installation media)	Description	Manufacturer	Model
	Notebook	HP	N/A

U-NII-1 (5150 - 5250 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH36	5180	11
11a	CH44	5220	11
11a	CH48	5240	11
11n (HT20)	CH36	5180	11
11n (HT20)	CH44	5220	11
11n (HT20)	CH48	5240	11
11n (HT40)	CH38	5190	11
11n (HT40)	CH46	5230	11
11ac (VHT20)	CH36	5180	12
11ac (VHT20)	CH44	5220	12
11ac (VHT20)	CH48	5240	12
11ac (VHT40)	CH38	5190	12
11ac (VHT40)	CH46	5230	12
11ac (VHT80)	CH42	5210	12

U-NII-3 (5725 - 5850 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH149	5745	11
11a	CH157	5785	11
11a	CH165	5825	11
11n (HT20)	CH149	5745	11
11n (HT20)	CH157	5785	11
11n (HT20)	CH165	5825	11
11n (HT40)	CH151	5755	11
11n (HT40)	CH159	5795	12
11ac (VHT20)	CH149	5745	12
11ac (VHT20)	CH157	5785	12
11ac (VHT20)	CH165	5825	12
11ac (VHT40)	CH151	5755	12
11ac (VHT40)	CH159	5795	12
11ac (VHT80)	CH155	5775	12

Run Software:



```

/#
/# wl down
/# wl mpc 0
/# wl country ALL
/# wl band a
/# wl up
wl 5g_rate -v 0 -s 1 -b 40
wl chanspec 157/40
/# wl 5g_rate -v 0 -s 1 -b 40
/# wl chanspec 157/40
Chanspec set to 0xd89f
wl phy_watchdo/# wl phy_watchdog 0
/# wl scansuppress 1
/# wl phy_forcecal 1
wl txpwr1 -1
/# wl txpwr1 -1
wl txpwr1 -o -d 12
/# wl txpwr1 -o -d 12
/# wl phy_forcecal 1
wl pkteng_start 00:90:4c:14:43:19 tx 40 1000 0

/# wl pkteng_start 00:90:4c:14:43:19 tx 40 1000 0
/#
/#
    
```

就绪 Serial: COM13 24, 4 24行, 80列 VT100 大写 数字



## 2.7 Channel List

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

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)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (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)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (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)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	155	Mid	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	U-NII-1	U-NII-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
6 dB bandwidth	11a	6	BPSK	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	165/157/149
	11n(40 MHz)	13.5		N/A	159/151
	11ac(20 MHz)	6.5		N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	159/151
	11ac(80 MHz)	29.3		N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/36	165/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

#### 3.2 Test Verdict

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

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

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

Note <sup>3</sup>: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

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

Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
	LT (Low Temperature)	-5°C
	HT (High Temperature)	+40°C
Working Voltage of the EUT	NV (Normal Voltage)	3.80 V
	LV (Low Voltage)	3.00 V
	HV (High Voltage)	4.35 V

### 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2021.04.01	2022.03.31
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.01.04	2023.01.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2021.06.01	2022.05.31
Bluetooth Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2021.08.09	2022.08.08
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2021.02.08	2022.02.09
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2022.02.09	2023.02.08
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2021.08.24	2022.08.23
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2021.06.01	2022.05.31
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2021.09.13	2022.09.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.10.10	2022.10.09
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.06.08	2022.06.07
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.04.16	2024.04.15
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.08.20	2024.08.19
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2022.07.01
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1917	2021.07.02	2023.07.01
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2021.09.04	2024.09.09

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2021.08.15	2024.08.14
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

### 4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V19.8.28.435	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

### 4.4 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.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.82°C
Humidity	4.1%

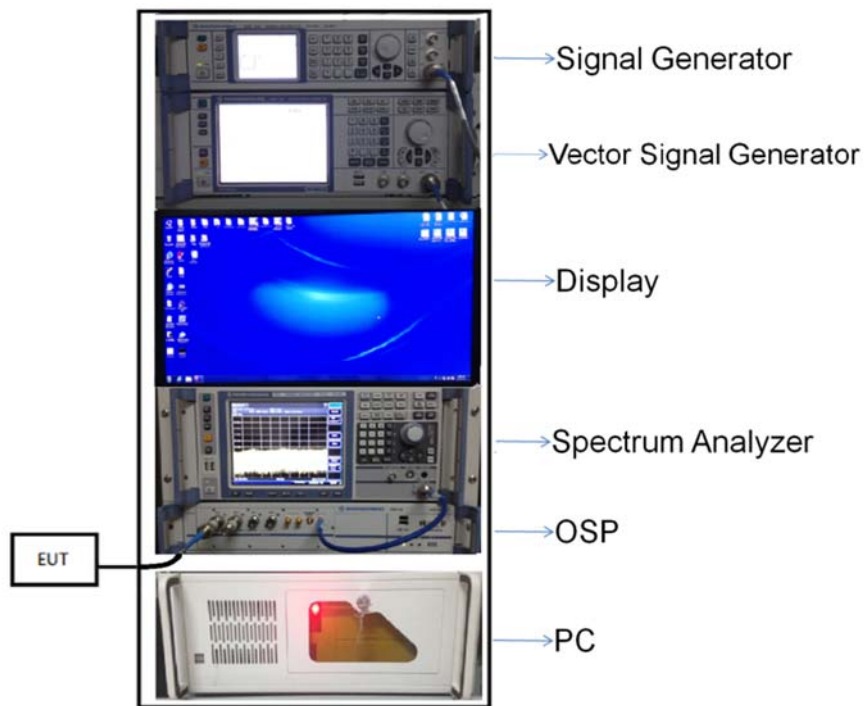
## 4.5 Description of Test Setup

### 4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

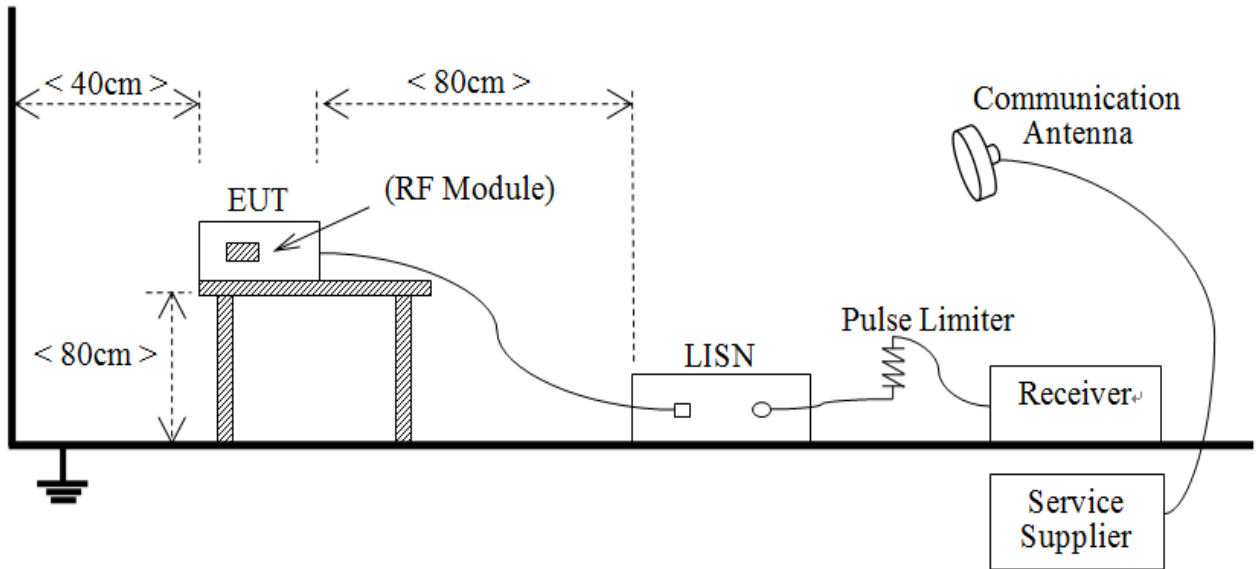
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



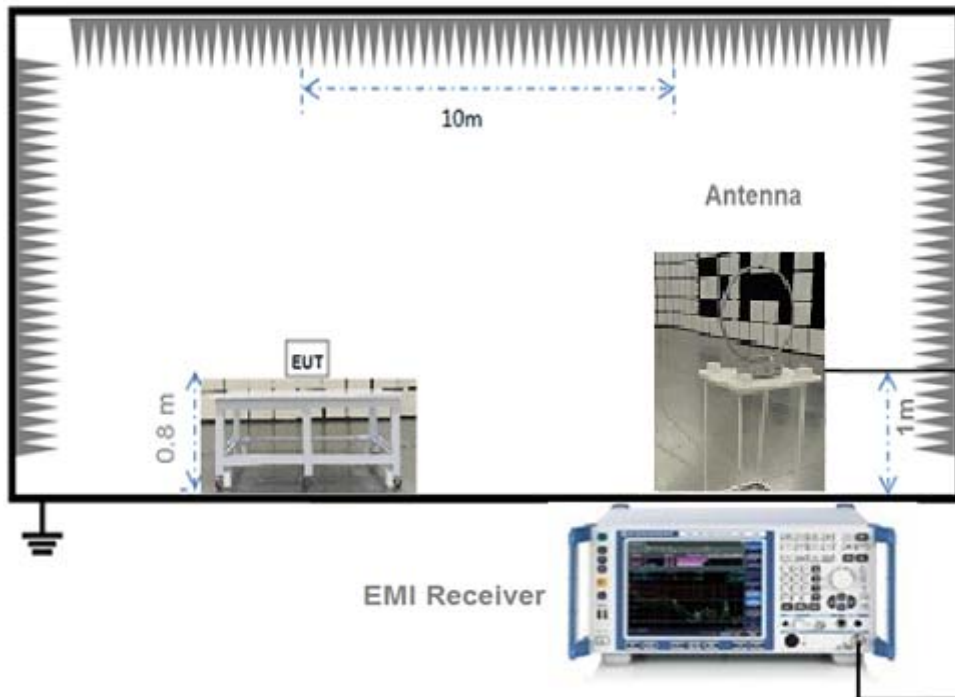
(Diagram 1)

### 4.5.2 For AC Power Supply Port Test



(Diagram 2)

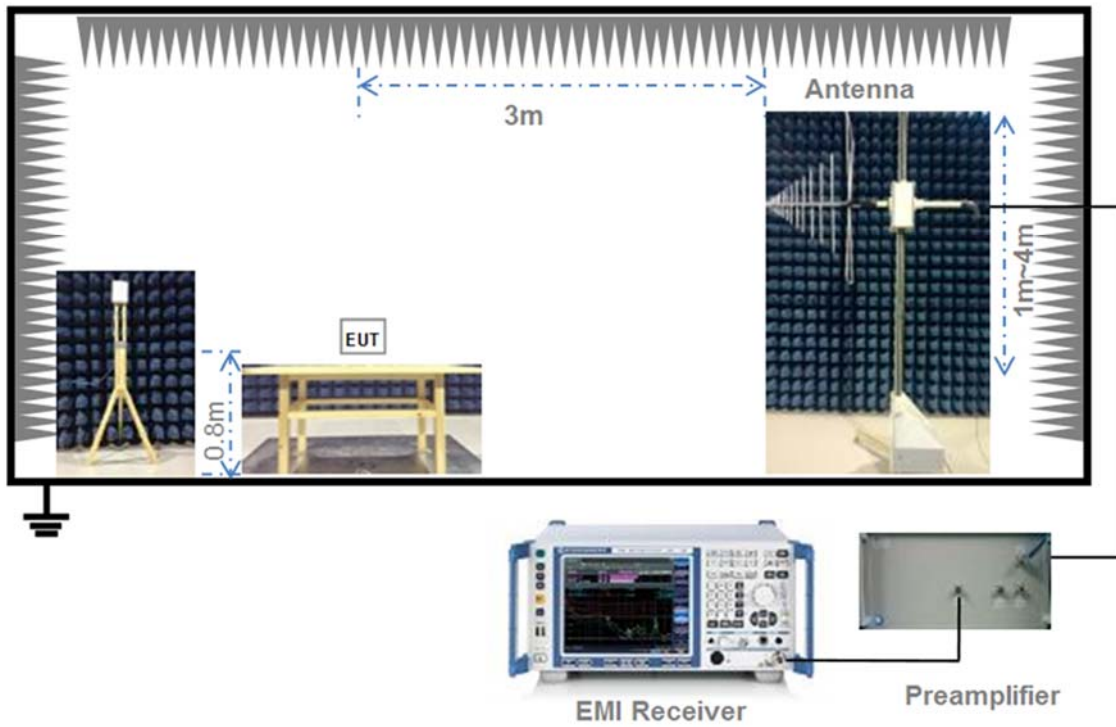
### 4.5.3 For Radiated Test (Below 30 MHz)



(Diagram 3)

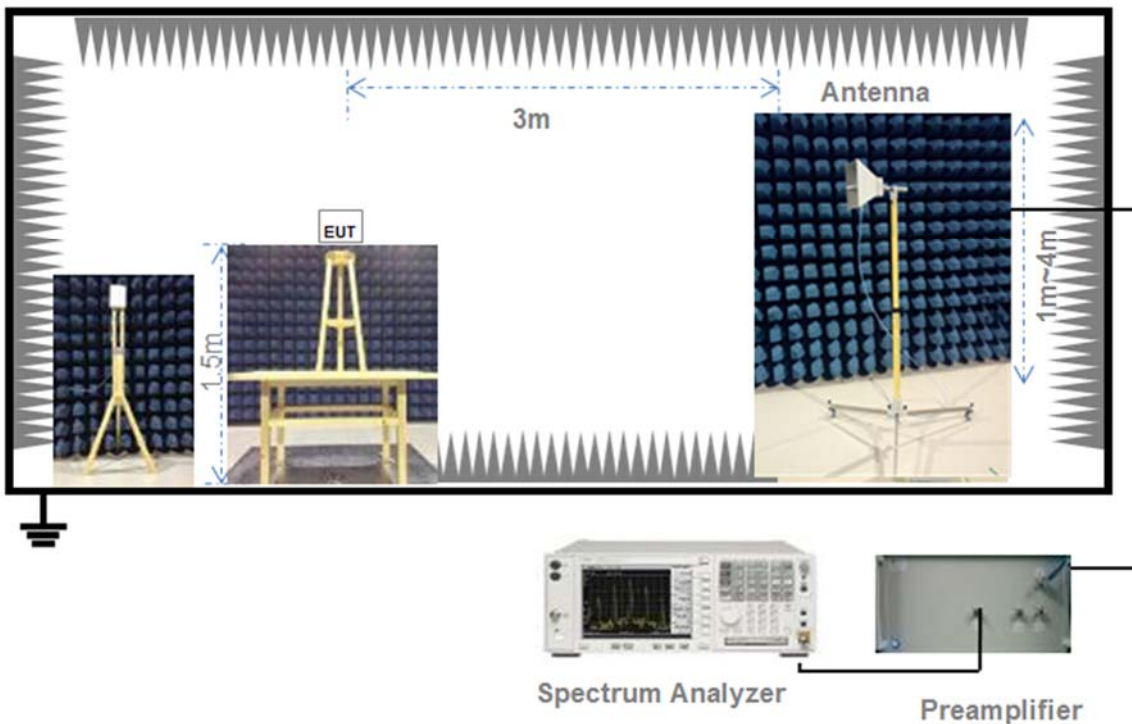


#### 4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

#### 4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)



## 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.	

#### 5.1.2 Test Setup

The section 4.5.1 (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)

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

### 5.2.3 Test Procedure

#### Emission bandwidth

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

#### Occupied Bandwidth

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

#### 6 dB bandwidth

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

### 5.2.4 Test Result

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

## 5.3 Power Spectral density (PSD)

### 5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

### 5.3.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

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

1. Set RBW = 510 kHz/1 MHz, VBW  $\geq$  3\*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

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 U-NII-150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

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

### 5.4.2 Test Setup

The section 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.4.3 Test Procedure

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

### 5.4.4 Test Result

Please refer to ANNEX A.5.

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

### 5.5.1 Limit

FCC §15.209 & 15.407(b)

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<sup>1</sup>: The Limit for radiated test was performed according to FCC Part 15C

Note<sup>2</sup>: 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	<p>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.</p>

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

## 5.5.2 Test Setup

The section 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

## 5.5.3 Test Procedure

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

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

### General Procedure for conducted measurements in restricted bands

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

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

where:

E = electric field strength in dB $\mu$ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

### Quasi-Peak measurement procedure

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

Electrotechnical Commission.

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

#### Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle,  $x$ , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW  $\geq 3 \times$  RBW.
- e) Detector = RMS, if  $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$ . Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
  - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
  - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB

averaging shall not be used.

g) Sweep time = auto.

h) Perform a trace average of at least 100 traces.

i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is  $10 \log(1/x)$ , where  $x$  is the duty cycle.

2) If linear voltage averaging mode was used in step f), then the applicable correction factor is  $20 \log(1/x)$ , where  $x$  is the duty cycle.

3) If a specific emission is demonstrated to be continuous ( $\geq 98$  percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

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

#### Determining the applicable transmit antenna gain

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

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

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

#### Radiated spurious emission test

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



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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

#### 5.5.4 Test Result

Please refer to ANNEX A.6.

## ANNEX A TEST RESULT

### A.1 RF Output Power

Note: 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

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	8.58	7.21	250	Pass
11a	CH44	8.53	7.13	250	Pass
11a	CH48	8.45	7.00	250	Pass
11n (HT20)	CH36	8.96	7.87	250	Pass
11n (HT20)	CH44	8.89	7.74	250	Pass
11n (HT20)	CH48	8.65	7.33	250	Pass
11n (HT40)	CH38	7.41	5.51	250	Pass
11n (HT40)	CH46	7.31	5.38	250	Pass
11ac (VHT20)	CH36	9.48	8.87	250	Pass
11ac (VHT20)	CH44	9.35	8.61	250	Pass
11ac (HVT20)	CH48	9.36	8.63	250	Pass
11ac (VHT40)	CH38	8.07	6.41	250	Pass
11ac (VHT40)	CH46	8.17	6.56	250	Pass
11ac (VHT80)	CH42	8.26	6.70	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	7.13	5.16	1000	Pass
11a	CH157	6.41	4.38	1000	Pass
11a	CH165	5.83	3.83	1000	Pass
11n (HT20)	CH149	7.29	5.36	1000	Pass
11n (HT20)	CH157	6.63	4.60	1000	Pass
11n (HT20)	CH165	6.06	4.04	1000	Pass
11n (HT40)	CH151	6.83	4.82	1000	Pass
11n (HT40)	CH159	6.27	4.24	1000	Pass
11ac (VHT20)	CH149	8.32	6.79	1000	Pass
11ac (VHT20)	CH157	7.96	6.25	1000	Pass
11ac (VHT20)	CH165	7.19	5.24	1000	Pass
11ac (VHT40)	CH151	7.53	5.66	1000	Pass
11ac (VHT40)	CH159	7.12	5.15	1000	Pass
11ac (VHT80)	CH155	7.29	5.36	1000	Pass

## A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ21B0948-603 Data Part 1.pdf".

### Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	21.16	16.73
11a	CH44	21.12	16.73
11a	CH48	21.16	16.73
11n (HT20)	CH36	21.60	17.83
11n (HT20)	CH44	21.56	17.89
11n (HT20)	CH48	21.56	17.89
11n (HT40)	CH38	40.30	36.35
11n (HT40)	CH46	40.30	36.47
11ac (VHT20)	CH36	21.32	17.77
11ac (VHT20)	CH44	21.28	17.83
11ac (VHT20)	CH48	21.20	17.77
11ac (VHT40)	CH38	40.20	36.35
11ac (VHT40)	CH46	40.20	36.35
11ac (VHT80)	CH42	82.00	75.72

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	21.28	16.73
11a	CH157	21.28	16.73
11a	CH165	21.28	16.73
11n (HT20)	CH149	21.60	17.89
11n (HT20)	CH157	21.60	17.89
11n (HT20)	CH165	21.56	17.89
11n (HT40)	CH151	40.40	36.47
11n (HT40)	CH159	40.20	36.35
11ac (VHT20)	CH149	21.28	17.83
11ac (VHT20)	CH157	21.36	17.83
11ac (VHT20)	CH165	21.28	17.83
11ac (VHT40)	CH151	40.30	36.47
11ac (VHT40)	CH159	40.40	36.35
11ac (VHT80)	CH155	82.00	75.95

### A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ21B0948-603 Data Part 2.pdf".

#### Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.42	500.00	Pass
11a	CH157	16.42	500.00	Pass
11a	CH165	16.42	500.00	Pass
11n (HT20)	CH149	17.67	500.00	Pass
11n (HT20)	CH157	17.67	500.00	Pass
11n (HT20)	CH165	17.67	500.00	Pass
11n (HT40)	CH151	35.87	500.00	Pass
11n (HT40)	CH159	36.12	500.00	Pass
11ac (VHT20)	CH149	17.82	500.00	Pass
11ac (VHT20)	CH157	17.77	500.00	Pass
11ac (VHT20)	CH165	17.82	500.00	Pass
11ac (VHT40)	CH151	36.37	500.00	Pass
11ac (VHT40)	CH159	36.12	500.00	Pass
11ac (VHT80)	CH155	75.47	500.00	Pass

## A.4 Power Spectral Density

Note<sup>1</sup>: Test plots please refer to the document “Annex No.: BL-SZ21B0948-603 Data Part 3.pdf”.

Note<sup>2</sup>: The RBW used in U-NII-3 is 1 MHz, and the PSD factor is:  $10 \cdot \log(500 \text{ kHz/RBW}) = -3 \text{ dBm}$ .

### Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	-3.07	11.00	Pass
11a	CH44	-3.91	11.00	Pass
11a	CH48	-3.91	11.00	Pass
11n (HT20)	CH36	-4.03	11.00	Pass
11n (HT20)	CH44	-4.21	11.00	Pass
11n (HT20)	CH48	-4.59	11.00	Pass
11n (HT40)	CH38	-7.29	11.00	Pass
11n (HT40)	CH46	-7.34	11.00	Pass
11ac (VHT20)	CH36	-4.31	11.00	Pass
11ac (VHT20)	CH44	-4.83	11.00	Pass
11ac (VHT20)	CH48	-5.94	11.00	Pass
11ac (VHT40)	CH38	-6.17	11.00	Pass
11ac (VHT40)	CH46	-6.47	11.00	Pass
11ac (VHT80)	CH42	-10.37	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-6.79	30.00	Pass
11a	CH157	-5.71	30.00	Pass
11a	CH165	-7.14	30.00	Pass
11n (HT20)	CH149	-6.82	30.00	Pass
11n (HT20)	CH157	-6.76	30.00	Pass
11n (HT20)	CH165	-7.08	30.00	Pass
11n (HT40)	CH151	-10.36	30.00	Pass
11n (HT40)	CH159	-10.85	30.00	Pass
11ac (VHT20)	CH149	-7.94	30.00	Pass
11ac (VHT20)	CH157	-8.52	30.00	Pass
11ac (VHT20)	CH165	-9.08	30.00	Pass
11ac (VHT40)	CH151	-9.15	30.00	Pass
11ac (VHT40)	CH159	-10.13	30.00	Pass
11ac (VHT80)	CH155	-12.90	30.00	Pass

## A.5 Conducted Emissions

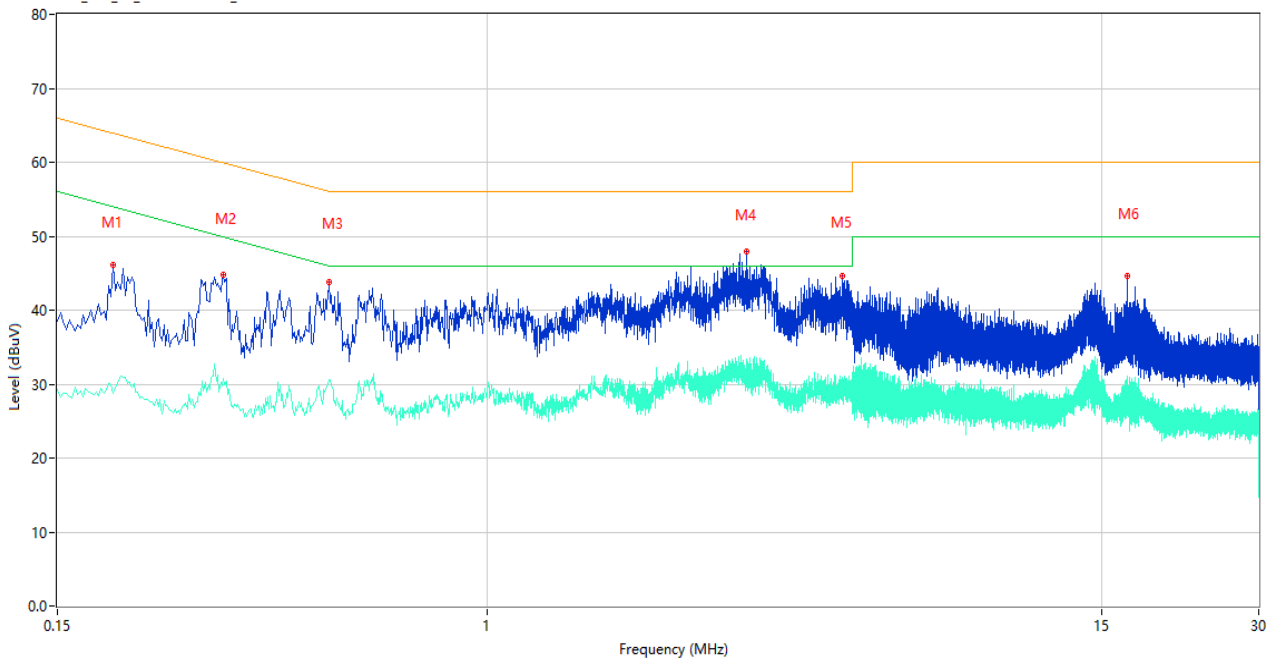
Note<sup>1</sup>: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note<sup>2</sup>: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

### Test Data and Plots

**PHASE L**

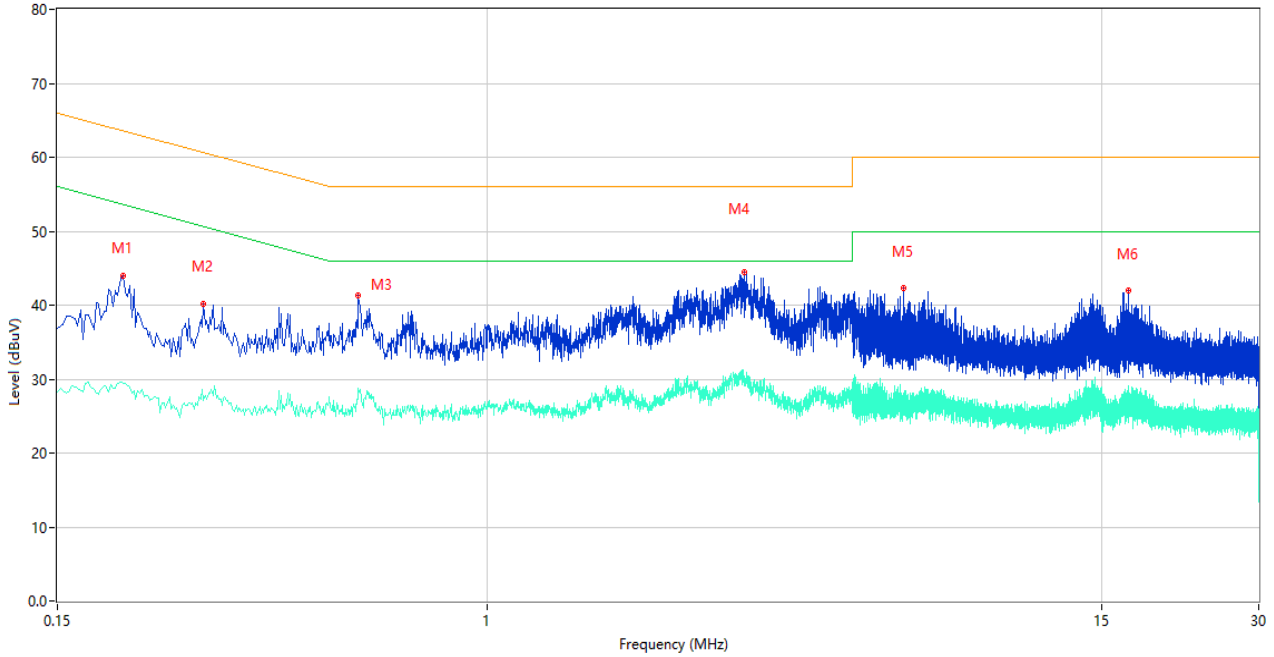
CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.192	46.06	10.96	63.95	-17.89	Peak	L	Pass
1**	0.192	28.70	10.96	53.95	-25.25	AV	L	Pass
2	0.312	44.79	10.88	59.92	-15.13	Peak	L	Pass
2**	0.312	30.76	10.88	49.92	-19.16	AV	L	Pass
3	0.498	43.85	10.92	56.03	-12.18	Peak	L	Pass
3**	0.498	30.35	10.92	46.03	-15.68	AV	L	Pass
4	3.138	47.91	10.70	56.00	-8.09	Peak	L	Pass
4**	3.138	33.39	10.70	46.00	-12.61	AV	L	Pass
5	4.774	44.57	10.69	56.00	-11.43	Peak	L	Pass
5**	4.774	30.90	10.69	46.00	-15.10	AV	L	Pass
6	16.782	44.65	10.66	60.00	-15.35	Peak	L	Pass
6**	16.782	31.02	10.66	50.00	-18.98	AV	L	Pass

PHASE N

CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.200	44.02	10.96	63.61	-19.59	Peak	N	Pass
1**	0.200	29.44	10.96	53.61	-24.17	AV	N	Pass
2	0.286	40.24	10.89	60.64	-20.40	Peak	N	Pass
2**	0.286	27.03	10.89	50.64	-23.61	AV	N	Pass
3	0.566	41.35	10.89	56.00	-14.65	Peak	N	Pass
3**	0.566	28.72	10.89	46.00	-17.28	AV	N	Pass
4	3.102	44.53	10.70	56.00	-11.47	Peak	N	Pass
4**	3.102	29.39	10.70	46.00	-16.61	AV	N	Pass
5	6.278	42.31	10.71	60.00	-17.69	Peak	N	Pass
5**	6.278	25.68	10.71	50.00	-24.32	AV	N	Pass
6	16.898	41.96	10.66	60.00	-18.04	Peak	N	Pass
6**	16.898	26.65	10.66	50.00	-23.35	AV	N	Pass



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

### Test Data

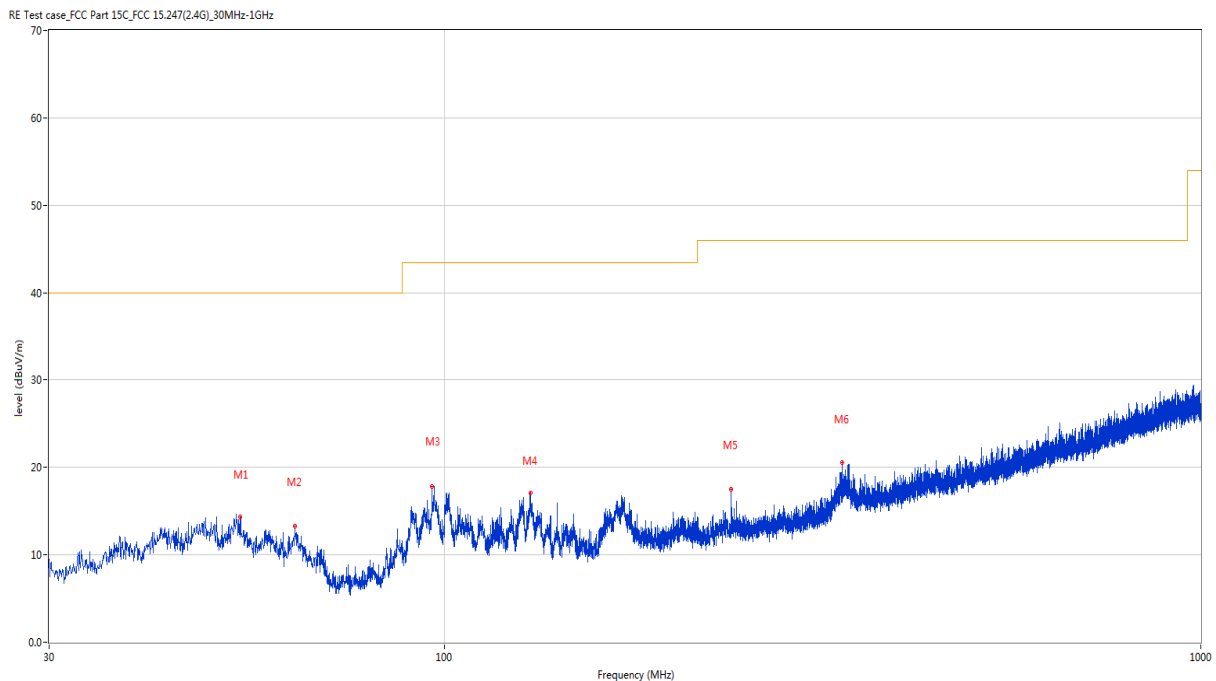
Note<sup>1</sup>: The symbol of "--" in the table which means not application.

Note<sup>2</sup>: 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<sup>3</sup>: 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.

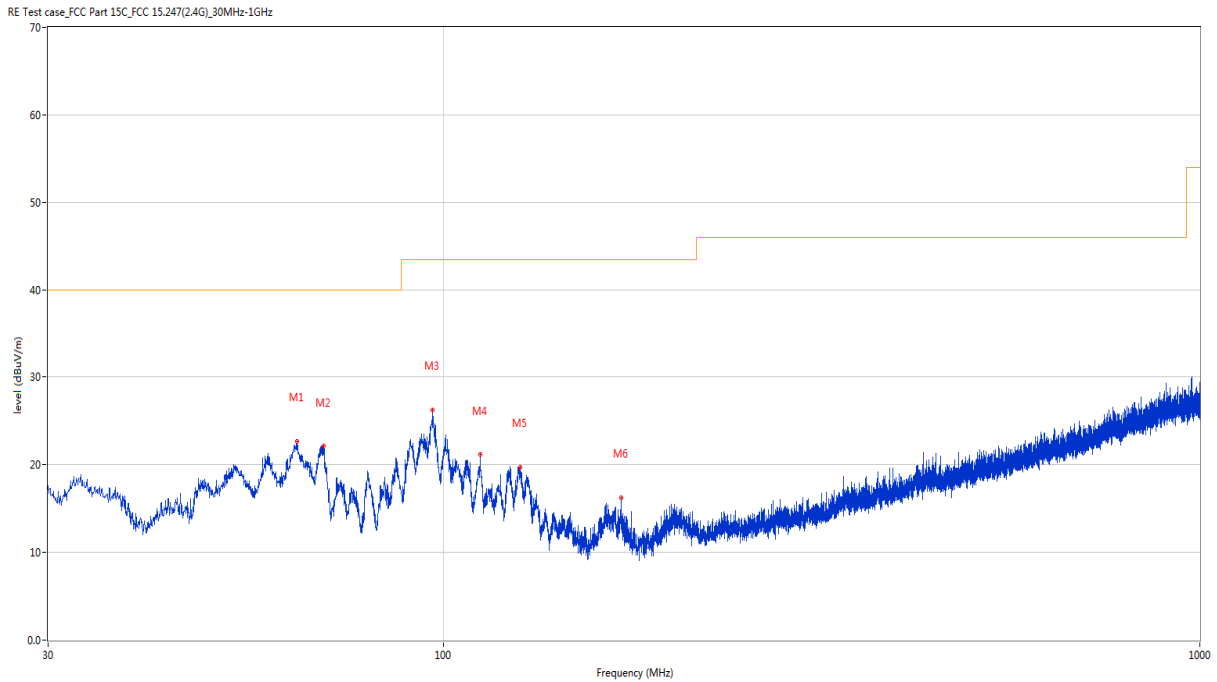
Note<sup>4</sup>: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

### 30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.717	14.27	-22.95	40.0	-25.73	Peak	85.10	100	Horizontal	Pass
2	63.416	13.22	-24.83	40.0	-26.78	Peak	212.20	200	Horizontal	Pass
3	96.299	17.76	-24.76	43.5	-25.74	Peak	338.90	200	Horizontal	Pass
4	129.813	17.05	-27.04	43.5	-26.45	Peak	77.70	200	Horizontal	Pass
5	239.472	17.43	-23.10	46.0	-28.57	Peak	358.70	200	Horizontal	Pass
6	335.356	20.48	-20.27	46.0	-25.52	Peak	234.40	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.950	22.65	-24.92	40.0	-17.35	Peak	298.80	100	Vertical	Pass
2	69.479	22.07	-26.87	40.0	-17.93	Peak	165.10	100	Vertical	Pass
3	96.639	26.25	-24.80	43.5	-17.25	Peak	328.90	100	Vertical	Pass
4	111.868	21.14	-24.46	43.5	-22.36	Peak	359.00	100	Vertical	Pass
5	126.175	19.73	-26.68	43.5	-23.77	Peak	6.20	100	Vertical	Pass
6	171.620	16.17	-26.48	43.5	-27.33	Peak	147.50	100	Vertical	Pass

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

#### 11a, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.300	51.82	-17.54	68.2	-16.38	Peak	120.00	150	Horizontal	Pass
1**	1501.300	38.75	-17.54	54.0	-15.25	AV	120.00	150	Horizontal	Pass
2	2814.900	55.89	-10.08	68.2	-12.31	Peak	340.00	150	Horizontal	Pass
2**	2814.900	35.49	-10.08	54.0	-18.51	AV	340.00	150	Horizontal	Pass
3	3695.800	53.70	-5.69	68.2	-14.50	Peak	115.00	150	Horizontal	Pass
3**	3695.800	45.58	-5.69	54.0	-8.42	AV	115.00	150	Horizontal	Pass
4	5178.800	98.09	-2.68	--	--	Peak	115.00	150	Horizontal	N/A
4**	5178.800	90.43	-2.68	--	--	AV	115.00	150	Horizontal	N/A
5	7508.300	49.41	-3.60	68.2	-18.79	Peak	215.00	150	Horizontal	Pass
5**	7508.300	40.75	-3.60	54.0	-13.25	AV	215.00	150	Horizontal	Pass
6	11667.562	53.15	0.20	68.2	-15.05	Peak	307.00	150	Horizontal	Pass
6**	11667.562	43.20	0.20	54.0	-10.80	AV	307.00	150	Horizontal	Pass

#### 11a, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.600	49.05	-17.53	68.2	-19.15	Peak	151.00	150	Vertical	Pass
1**	1501.600	37.04	-17.53	54.0	-16.96	AV	151.00	150	Vertical	Pass
2	2771.600	57.70	-10.49	68.2	-10.50	Peak	134.00	150	Vertical	Pass
2**	2771.600	44.71	-10.49	54.0	-9.29	AV	134.00	150	Vertical	Pass
3	3696.200	52.06	-5.71	68.2	-16.14	Peak	163.00	150	Vertical	Pass
3**	3696.200	44.02	-5.71	54.0	-9.98	AV	163.00	150	Vertical	Pass
4	5181.000	94.79	-2.70	--	--	Peak	163.00	150	Vertical	N/A
4**	5181.000	87.96	-2.70	--	--	AV	163.00	150	Vertical	N/A
5	7619.562	49.92	-2.97	68.2	-18.28	Peak	152.00	150	Vertical	Pass
5**	7619.562	39.83	-2.97	54.0	-14.17	AV	152.00	150	Vertical	Pass
6	11963.975	54.58	0.87	68.2	-13.62	Peak	251.00	150	Vertical	Pass
6**	11963.975	44.39	0.87	54.0	-9.61	AV	251.00	150	Vertical	Pass

## 11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.400	51.51	-17.53	68.2	-16.69	Peak	127.00	150	Horizontal	Pass
1**	1501.400	39.81	-17.53	54.0	-14.19	AV	127.00	150	Horizontal	Pass
2	2771.800	57.93	-10.49	68.2	-10.27	Peak	12.00	150	Horizontal	Pass
2**	2771.800	42.92	-10.49	54.0	-11.08	AV	12.00	150	Horizontal	Pass
3	3695.800	52.79	-5.69	68.2	-15.41	Peak	156.00	150	Horizontal	Pass
3**	3695.800	44.64	-5.69	54.0	-9.36	AV	156.00	150	Horizontal	Pass
4	5221.400	99.68	-3.04	--	--	Peak	118.00	150	Horizontal	N/A
4**	5221.400	92.51	-3.04	--	--	AV	118.00	150	Horizontal	N/A
5	7294.975	49.17	-3.60	68.2	-19.03	Peak	360.00	150	Horizontal	Pass
5**	7294.975	40.08	-3.60	54.0	-13.92	AV	360.00	150	Horizontal	Pass
6	12222.151	53.59	1.26	68.2	-14.61	Peak	88.00	150	Horizontal	Pass
6**	12222.151	44.95	1.26	54.0	-9.05	AV	88.00	150	Horizontal	Pass

## 11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	49.29	-17.52	68.2	-18.91	Peak	153.00	150	Vertical	Pass
1**	1501.700	36.98	-17.52	54.0	-17.02	AV	153.00	150	Vertical	Pass
2	2714.200	55.92	-11.28	68.2	-12.28	Peak	135.00	150	Vertical	Pass
2**	2714.200	42.91	-11.28	54.0	-11.09	AV	135.00	150	Vertical	Pass
3	3696.000	53.45	-5.70	68.2	-14.75	Peak	160.00	150	Vertical	Pass
3**	3696.000	44.05	-5.70	54.0	-9.95	AV	160.00	150	Vertical	Pass
4	5219.200	94.68	-3.04	--	--	Peak	160.00	150	Vertical	N/A
4**	5219.200	87.44	-3.04	--	--	AV	160.00	150	Vertical	N/A
5	7335.513	49.32	-3.35	68.2	-18.88	Peak	298.00	150	Vertical	Pass
5**	7335.513	40.97	-3.35	54.0	-13.03	AV	298.00	150	Vertical	Pass
6	12280.800	53.94	1.80	68.2	-14.26	Peak	0.00	150	Vertical	Pass
6**	12280.800	44.08	1.80	54.0	-9.92	AV	0.00	150	Vertical	Pass

## 11a, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	51.97	-17.53	68.2	-16.23	Peak	119.00	150	Horizontal	Pass
1**	1501.500	40.26	-17.53	54.0	-13.74	AV	119.00	150	Horizontal	Pass
2	2772.200	61.18	-10.49	68.2	-7.02	Peak	87.00	150	Horizontal	Pass
2**	2772.200	44.21	-10.49	54.0	-9.79	AV	87.00	150	Horizontal	Pass
3	3695.600	53.41	-5.67	68.2	-14.79	Peak	125.00	150	Horizontal	Pass
3**	3695.600	43.24	-5.67	54.0	-10.76	AV	125.00	150	Horizontal	Pass
4	5239.000	99.81	-2.72	--	--	Peak	138.00	150	Horizontal	N/A
4**	5239.000	93.06	-2.72	--	--	AV	138.00	150	Horizontal	N/A
5	7334.938	49.39	-3.40	68.2	-18.81	Peak	178.00	150	Horizontal	Pass
5**	7334.938	40.72	-3.40	54.0	-13.28	AV	178.00	150	Horizontal	Pass
6	12324.500	53.65	1.42	68.2	-14.55	Peak	14.00	150	Horizontal	Pass
6**	12324.500	44.28	1.42	54.0	-9.72	AV	14.00	150	Horizontal	Pass

## 11a, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.600	49.21	-17.53	68.2	-18.99	Peak	157.00	150	Vertical	Pass
1**	1501.600	37.39	-17.53	54.0	-16.61	AV	157.00	150	Vertical	Pass
2	2713.700	55.77	-11.29	68.2	-12.43	Peak	139.00	150	Vertical	Pass
2**	2713.700	42.53	-11.29	54.0	-11.47	AV	139.00	150	Vertical	Pass
3	3695.400	54.91	-5.69	68.2	-13.29	Peak	137.00	150	Vertical	Pass
3**	3695.400	42.47	-5.69	54.0	-11.53	AV	137.00	150	Vertical	Pass
4	5242.800	94.58	-2.69	--	--	Peak	75.00	150	Vertical	N/A
4**	5242.800	86.96	-2.69	--	--	AV	75.00	150	Vertical	N/A
5	7336.088	49.14	-3.40	68.2	-19.06	Peak	51.00	150	Vertical	Pass
5**	7336.088	41.45	-3.40	54.0	-12.55	AV	51.00	150	Vertical	Pass
6	12259.812	53.59	1.07	68.2	-14.61	Peak	273.00	150	Vertical	Pass
6**	12259.812	44.78	1.07	54.0	-9.22	AV	273.00	150	Vertical	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	51.85	-17.52	68.2	-16.35	Peak	119.00	150	Horizontal	Pass
1**	1501.700	39.44	-17.52	54.0	-14.56	AV	119.00	150	Horizontal	Pass
2	2771.900	58.11	-10.49	68.2	-10.09	Peak	93.00	150	Horizontal	Pass
2**	2771.900	44.61	-10.49	54.0	-9.39	AV	93.00	150	Horizontal	Pass
3	3695.800	54.00	-5.69	68.2	-14.20	Peak	102.00	150	Horizontal	Pass
3**	3695.800	45.78	-5.69	54.0	-8.22	AV	102.00	150	Horizontal	Pass
4	5178.600	98.22	-2.69	--	--	Peak	116.00	150	Horizontal	N/A
4**	5178.600	90.55	-2.69	--	--	AV	116.00	150	Horizontal	N/A
5	7373.750	50.13	-3.75	68.2	-18.07	Peak	123.00	150	Horizontal	Pass
5**	7373.750	40.10	-3.75	54.0	-13.90	AV	123.00	150	Horizontal	Pass
6	12275.625	53.87	1.64	68.2	-14.33	Peak	123.00	150	Horizontal	Pass
6**	12275.625	44.55	1.64	54.0	-9.45	AV	123.00	150	Horizontal	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.400	49.95	-17.53	68.2	-18.25	Peak	153.00	150	Vertical	Pass
1**	1501.400	37.51	-17.53	54.0	-16.49	AV	153.00	150	Vertical	Pass
2	2772.000	61.65	-10.49	68.2	-6.55	Peak	127.00	150	Vertical	Pass
2**	2772.000	49.04	-10.49	54.0	-4.96	AV	127.00	150	Vertical	Pass
3	3695.800	52.80	-5.69	68.2	-15.40	Peak	286.00	150	Vertical	Pass
3**	3695.800	44.04	-5.69	54.0	-9.96	AV	286.00	150	Vertical	Pass
4	5181.200	94.25	-2.71	--	--	Peak	153.00	150	Vertical	N/A
4**	5181.200	86.41	-2.71	--	--	AV	153.00	150	Vertical	N/A
5	7346.438	49.80	-3.82	68.2	-18.40	Peak	201.00	150	Vertical	Pass
5**	7346.438	40.32	-3.82	54.0	-13.68	AV	201.00	150	Vertical	Pass
6	11895.550	53.47	1.70	68.2	-14.73	Peak	183.00	150	Vertical	Pass
6**	11895.550	42.27	1.70	54.0	-11.73	AV	183.00	150	Vertical	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	51.43	-17.53	68.2	-16.77	Peak	119.00	150	Horizontal	Pass
1**	1501.500	37.06	-17.53	54.0	-16.94	AV	119.00	150	Horizontal	Pass
2	2770.800	55.94	-10.52	68.2	-12.26	Peak	360.00	150	Horizontal	Pass
2**	2770.800	41.79	-10.52	54.0	-12.21	AV	360.00	150	Horizontal	Pass
3	3695.800	52.98	-5.69	68.2	-15.22	Peak	153.00	150	Horizontal	Pass
3**	3695.800	44.61	-5.69	54.0	-9.39	AV	153.00	150	Horizontal	Pass
4	5221.400	99.91	-3.04	--	--	Peak	127.00	150	Horizontal	N/A
4**	5221.400	92.57	-3.04	--	--	AV	127.00	150	Horizontal	N/A
5	7326.888	49.69	-3.65	68.2	-18.51	Peak	274.00	150	Horizontal	Pass
5**	7326.888	40.10	-3.65	54.0	-13.90	AV	274.00	150	Horizontal	Pass
6	12264.125	53.37	1.25	68.2	-14.83	Peak	32.00	150	Horizontal	Pass
6**	12264.125	44.32	1.25	54.0	-9.68	AV	32.00	150	Horizontal	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.900	48.74	-17.52	68.2	-19.46	Peak	154.00	150	Vertical	Pass
1**	1501.900	35.34	-17.52	54.0	-18.66	AV	154.00	150	Vertical	Pass
2	2771.900	59.33	-10.49	68.2	-8.87	Peak	292.00	150	Vertical	Pass
2**	2771.900	46.74	-10.49	54.0	-7.26	AV	292.00	150	Vertical	Pass
3	3696.200	54.16	-5.71	68.2	-14.04	Peak	127.00	150	Vertical	Pass
3**	3696.200	44.65	-5.71	54.0	-9.35	AV	127.00	150	Vertical	Pass
4	5218.400	94.28	-2.99	--	--	Peak	164.00	150	Vertical	N/A
4**	5218.400	87.19	-2.99	--	--	AV	164.00	150	Vertical	N/A
5	7454.538	49.99	-3.89	68.2	-18.21	Peak	13.00	150	Vertical	Pass
5**	7454.538	39.46	-3.89	54.0	-14.54	AV	13.00	150	Vertical	Pass
6	12329.675	53.40	1.42	68.2	-14.80	Peak	181.00	150	Vertical	Pass
6**	12329.675	44.46	1.42	54.0	-9.54	AV	181.00	150	Vertical	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	51.76	-17.53	68.2	-16.44	Peak	127.00	150	Horizontal	Pass
1**	1501.500	39.69	-17.53	54.0	-14.31	AV	127.00	150	Horizontal	Pass
2	2771.500	58.93	-10.49	68.2	-9.27	Peak	266.00	150	Horizontal	Pass
2**	2771.500	42.29	-10.49	54.0	-11.71	AV	266.00	150	Horizontal	Pass
3	3696.000	54.09	-5.70	68.2	-14.11	Peak	162.00	150	Horizontal	Pass
3**	3696.000	46.50	-5.70	54.0	-7.50	AV	162.00	150	Horizontal	Pass
4	5239.200	99.70	-2.72	--	--	Peak	136.00	150	Horizontal	N/A
4**	5239.200	92.40	-2.72	--	--	AV	136.00	150	Horizontal	N/A
5	7322.862	49.41	-3.61	68.2	-18.79	Peak	104.00	150	Horizontal	Pass
5**	7322.862	39.69	-3.61	54.0	-14.31	AV	104.00	150	Horizontal	Pass
6	11715.000	53.35	0.75	68.2	-14.85	Peak	70.00	150	Horizontal	Pass
6**	11715.000	43.92	0.75	54.0	-10.08	AV	70.00	150	Horizontal	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.800	48.85	-17.52	68.2	-19.35	Peak	148.00	150	Vertical	Pass
1**	1501.800	34.90	-17.52	54.0	-19.10	AV	148.00	150	Vertical	Pass
2	2772.200	60.03	-10.49	68.2	-8.17	Peak	252.00	150	Vertical	Pass
2**	2772.200	49.95	-10.49	54.0	-4.05	AV	252.00	150	Vertical	Pass
3	3696.400	53.59	-5.72	68.2	-14.61	Peak	290.00	150	Vertical	Pass
3**	3696.400	44.78	-5.72	54.0	-9.22	AV	290.00	150	Vertical	Pass
4	5241.400	93.48	-2.70	--	--	Peak	126.00	150	Vertical	N/A
4**	5241.400	85.68	-2.70	--	--	AV	126.00	150	Vertical	N/A
5	7618.413	49.54	-2.92	68.2	-18.66	Peak	121.00	150	Vertical	Pass
5**	7618.413	40.60	-2.92	54.0	-13.40	AV	121.00	150	Vertical	Pass
6	11937.237	53.53	1.69	68.2	-14.67	Peak	351.00	150	Vertical	Pass
6**	11937.237	44.45	1.69	54.0	-9.55	AV	351.00	150	Vertical	Pass



## 11n40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	50.95	-17.52	68.2	-17.25	Peak	126.00	150	Horizontal	Pass
1**	1501.700	39.51	-17.52	54.0	-14.49	AV	126.00	150	Horizontal	Pass
2	2772.500	59.35	-10.48	68.2	-8.85	Peak	71.00	150	Horizontal	Pass
2**	2772.500	43.61	-10.48	54.0	-10.39	AV	71.00	150	Horizontal	Pass
3	3695.200	53.93	-5.72	68.2	-14.27	Peak	128.00	150	Horizontal	Pass
3**	3695.200	42.52	-5.72	54.0	-11.48	AV	128.00	150	Horizontal	Pass
4	5192.200	94.16	-2.68	--	--	Peak	116.00	150	Horizontal	N/A
4**	5192.200	87.30	-2.68	--	--	AV	116.00	150	Horizontal	N/A
5	7334.362	49.51	-3.44	68.2	-18.69	Peak	43.00	150	Horizontal	Pass
5**	7334.362	41.58	-3.44	54.0	-12.42	AV	43.00	150	Horizontal	Pass
6	11941.838	53.48	1.63	68.2	-14.72	Peak	140.00	150	Horizontal	Pass
6**	11941.838	43.62	1.63	54.0	-10.38	AV	140.00	150	Horizontal	Pass

## 11n40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.300	49.22	-17.54	68.2	-18.98	Peak	161.00	150	Vertical	Pass
1**	1501.300	35.68	-17.54	54.0	-18.32	AV	161.00	150	Vertical	Pass
2	2773.600	58.88	-10.48	68.2	-9.32	Peak	262.00	150	Vertical	Pass
2**	2773.600	40.93	-10.48	54.0	-13.07	AV	262.00	150	Vertical	Pass
3	3696.200	53.82	-5.71	68.2	-14.38	Peak	132.00	150	Vertical	Pass
3**	3696.200	44.99	-5.71	54.0	-9.01	AV	132.00	150	Vertical	Pass
4	5191.600	90.76	-2.64	--	--	Peak	156.00	150	Vertical	N/A
4**	5191.600	82.48	-2.64	--	--	AV	156.00	150	Vertical	N/A
5	7624.737	49.78	-3.04	68.2	-18.42	Peak	286.00	150	Vertical	Pass
5**	7624.737	40.12	-3.04	54.0	-13.88	AV	286.00	150	Vertical	Pass
6	12301.213	53.80	1.45	68.2	-14.40	Peak	66.00	150	Vertical	Pass
6**	12301.213	43.85	1.45	54.0	-10.15	AV	66.00	150	Vertical	Pass

## 11n40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.100	51.30	-17.55	68.2	-16.90	Peak	128.00	150	Horizontal	Pass
1**	1501.100	38.14	-17.55	54.0	-15.86	AV	128.00	150	Horizontal	Pass
2	2813.400	56.80	-10.03	68.2	-11.40	Peak	128.00	150	Horizontal	Pass
2**	2813.400	36.38	-10.03	54.0	-17.62	AV	128.00	150	Horizontal	Pass
3	3696.200	53.35	-5.71	68.2	-14.85	Peak	121.00	150	Horizontal	Pass
3**	3696.200	46.69	-5.71	54.0	-7.31	AV	121.00	150	Horizontal	Pass
4	5231.600	95.19	-2.91	--	--	Peak	121.00	150	Horizontal	N/A
4**	5231.600	88.17	-2.91	--	--	AV	121.00	150	Horizontal	N/A
5	7556.025	48.95	-2.75	68.2	-19.25	Peak	243.00	150	Horizontal	Pass
5**	7556.025	39.20	-2.75	54.0	-14.80	AV	243.00	150	Horizontal	Pass
6	11938.675	53.51	1.69	68.2	-14.69	Peak	0.00	150	Horizontal	Pass
6**	11938.675	44.00	1.69	54.0	-10.00	AV	0.00	150	Horizontal	Pass

## 11n40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.800	48.30	-17.52	68.2	-19.90	Peak	149.00	150	Vertical	Pass
1**	1501.800	37.33	-17.52	54.0	-16.67	AV	149.00	150	Vertical	Pass
2	2730.100	57.79	-10.95	68.2	-10.41	Peak	94.00	150	Vertical	Pass
2**	2730.100	34.85	-10.95	54.0	-19.15	AV	94.00	150	Vertical	Pass
3	3695.600	54.20	-5.67	68.2	-14.00	Peak	129.00	150	Vertical	Pass
3**	3695.600	43.64	-5.67	54.0	-10.36	AV	129.00	150	Vertical	Pass
4	5227.800	90.05	-2.94	--	--	Peak	153.00	150	Vertical	N/A
4**	5227.800	82.19	-2.94	--	--	AV	153.00	150	Vertical	N/A
5	7344.425	49.58	-3.59	68.2	-18.62	Peak	360.00	150	Vertical	Pass
5**	7344.425	40.08	-3.59	54.0	-13.92	AV	360.00	150	Vertical	Pass
6	12242.562	54.24	1.04	68.2	-13.96	Peak	140.00	150	Vertical	Pass
6**	12242.562	44.01	1.04	54.0	-9.99	AV	140.00	150	Vertical	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.600	51.22	-17.53	68.2	-16.98	Peak	126.00	150	Horizontal	Pass
1**	1501.600	38.41	-17.53	54.0	-15.59	AV	126.00	150	Horizontal	Pass
2	2814.100	59.17	-10.04	68.2	-9.03	Peak	80.00	150	Horizontal	Pass
2**	2814.100	34.69	-10.04	54.0	-19.31	AV	80.00	150	Horizontal	Pass
3	3696.200	52.79	-5.71	68.2	-15.41	Peak	163.00	150	Horizontal	Pass
3**	3696.200	45.72	-5.71	54.0	-8.28	AV	163.00	150	Horizontal	Pass
4	5180.400	99.43	-2.70	--	--	Peak	137.00	150	Horizontal	N/A
4**	5180.400	91.72	-2.70	--	--	AV	137.00	150	Horizontal	N/A
5	7334.075	51.10	-3.46	68.2	-17.10	Peak	93.00	150	Horizontal	Pass
5**	7334.075	40.37	-3.46	54.0	-13.63	AV	93.00	150	Horizontal	Pass
6	12106.287	52.81	0.59	68.2	-15.39	Peak	323.00	150	Horizontal	Pass
6**	12106.287	43.72	0.59	54.0	-10.28	AV	323.00	150	Horizontal	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	48.72	-17.52	68.2	-19.48	Peak	163.00	150	Vertical	Pass
1**	1501.700	37.81	-17.52	54.0	-16.19	AV	163.00	150	Vertical	Pass
2	2772.000	59.37	-10.49	68.2	-8.83	Peak	109.00	150	Vertical	Pass
2**	2772.000	48.23	-10.49	54.0	-5.77	AV	109.00	150	Vertical	Pass
3	3696.600	53.44	-5.74	68.2	-14.76	Peak	278.00	150	Vertical	Pass
3**	3696.600	44.99	-5.74	54.0	-9.01	AV	278.00	150	Vertical	Pass
4	5179.800	94.39	-2.69	--	--	Peak	152.00	150	Vertical	N/A
4**	5179.800	87.91	-2.69	--	--	AV	152.00	150	Vertical	N/A
5	7334.075	49.83	-3.46	68.2	-18.37	Peak	116.00	150	Vertical	Pass
5**	7334.075	40.02	-3.46	54.0	-13.98	AV	116.00	150	Vertical	Pass
6	12200.588	53.59	0.70	68.2	-14.61	Peak	90.00	150	Vertical	Pass
6**	12200.588	43.05	0.70	54.0	-10.95	AV	90.00	150	Vertical	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	51.76	-17.52	68.2	-16.44	Peak	127.00	150	Horizontal	Pass
1**	1501.700	39.03	-17.52	54.0	-14.97	AV	127.00	150	Horizontal	Pass
2	2773.300	60.93	-10.48	68.2	-7.27	Peak	127.00	150	Horizontal	Pass
2**	2773.300	41.80	-10.48	54.0	-12.20	AV	127.00	150	Horizontal	Pass
3	3695.800	53.94	-5.69	68.2	-14.26	Peak	117.00	150	Horizontal	Pass
3**	3695.800	45.94	-5.69	54.0	-8.06	AV	117.00	150	Horizontal	Pass
4	5218.000	100.30	-2.96	--	--	Peak	129.00	150	Horizontal	N/A
4**	5218.000	93.18	-2.96	--	--	AV	129.00	150	Horizontal	N/A
5	7479.837	49.24	-4.21	68.2	-18.96	Peak	360.00	150	Horizontal	Pass
5**	7479.837	39.07	-4.21	54.0	-14.93	AV	360.00	150	Horizontal	Pass
6	12230.776	53.52	1.28	68.2	-14.68	Peak	121.00	150	Horizontal	Pass
6**	12230.776	44.13	1.28	54.0	-9.87	AV	121.00	150	Horizontal	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	48.89	-17.53	68.2	-19.31	Peak	151.00	150	Vertical	Pass
1**	1501.500	37.16	-17.53	54.0	-16.84	AV	151.00	150	Vertical	Pass
2	2813.500	58.34	-10.03	68.2	-9.86	Peak	95.00	150	Vertical	Pass
2**	2813.500	45.91	-10.03	54.0	-8.09	AV	95.00	150	Vertical	Pass
3	3696.200	53.30	-5.71	68.2	-14.90	Peak	292.00	150	Vertical	Pass
3**	3696.200	44.46	-5.71	54.0	-9.54	AV	292.00	150	Vertical	Pass
4	5221.400	94.69	-3.04	--	--	Peak	154.00	150	Vertical	N/A
4**	5221.400	87.73	-3.04	--	--	AV	154.00	150	Vertical	N/A
5	7372.025	49.38	-3.85	68.2	-18.82	Peak	95.00	150	Vertical	Pass
5**	7372.025	39.42	-3.85	54.0	-14.58	AV	95.00	150	Vertical	Pass
6	12093.638	53.41	0.52	68.2	-14.79	Peak	338.00	150	Vertical	Pass
6**	12093.638	44.29	0.52	54.0	-9.71	AV	338.00	150	Vertical	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	51.96	-17.53	68.2	-16.24	Peak	122.00	150	Horizontal	Pass
1**	1501.500	39.47	-17.53	54.0	-14.53	AV	122.00	150	Horizontal	Pass
2	2813.500	56.90	-10.03	68.2	-11.30	Peak	99.00	150	Horizontal	Pass
2**	2813.500	40.06	-10.03	54.0	-13.94	AV	99.00	150	Horizontal	Pass
3	3696.000	52.57	-5.70	68.2	-15.63	Peak	153.00	150	Horizontal	Pass
3**	3696.000	46.88	-5.70	54.0	-7.12	AV	153.00	150	Horizontal	Pass
4	5238.000	100.14	-2.76	--	--	Peak	127.00	150	Horizontal	N/A
4**	5238.000	93.07	-2.76	--	--	AV	127.00	150	Horizontal	N/A
5	7342.413	48.95	-3.65	68.2	-19.25	Peak	186.00	150	Horizontal	Pass
5**	7342.413	41.02	-3.65	54.0	-12.98	AV	186.00	150	Horizontal	Pass
6	12212.950	53.48	1.12	68.2	-14.72	Peak	360.00	150	Horizontal	Pass
6**	12212.950	43.94	1.12	54.0	-10.06	AV	360.00	150	Horizontal	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.200	49.00	-17.54	68.2	-19.20	Peak	154.00	150	Vertical	Pass
1**	1501.200	35.30	-17.54	54.0	-18.70	AV	154.00	150	Vertical	Pass
2	2813.800	56.28	-10.02	68.2	-11.92	Peak	242.00	150	Vertical	Pass
2**	2813.800	35.48	-10.02	54.0	-18.52	AV	242.00	150	Vertical	Pass
3	3696.600	53.90	-5.74	68.2	-14.30	Peak	142.00	150	Vertical	Pass
3**	3696.600	43.52	-5.74	54.0	-10.48	AV	142.00	150	Vertical	Pass
4	5242.200	95.46	-2.70	--	--	Peak	155.00	150	Vertical	N/A
4**	5242.200	87.56	-2.70	--	--	AV	155.00	150	Vertical	N/A
5	7379.500	49.15	-3.63	68.2	-19.05	Peak	291.00	150	Vertical	Pass
5**	7379.500	40.34	-3.63	54.0	-13.66	AV	291.00	150	Vertical	Pass
6	11765.313	53.44	1.30	68.2	-14.76	Peak	317.00	150	Vertical	Pass
6**	11765.313	43.56	1.30	54.0	-10.44	AV	317.00	150	Vertical	Pass

## 11ac40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	52.06	-17.53	68.2	-16.14	Peak	127.00	150	Horizontal	Pass
1**	1501.500	37.04	-17.53	54.0	-16.96	AV	127.00	150	Horizontal	Pass
2	2813.500	55.47	-10.03	68.2	-12.73	Peak	253.00	150	Horizontal	Pass
2**	2813.500	43.37	-10.03	54.0	-10.63	AV	253.00	150	Horizontal	Pass
3	3696.600	54.09	-5.74	68.2	-14.11	Peak	120.00	150	Horizontal	Pass
3**	3696.600	46.74	-5.74	54.0	-7.26	AV	120.00	150	Horizontal	Pass
4	5192.600	99.74	-2.71	--	--	Peak	120.00	150	Horizontal	N/A
4**	5192.600	91.96	-2.71	--	--	AV	120.00	150	Horizontal	N/A
5	7541.362	49.48	-2.69	68.2	-18.72	Peak	19.00	150	Horizontal	Pass
5**	7541.362	38.61	-2.69	54.0	-15.39	AV	19.00	150	Horizontal	Pass
6	12271.887	53.59	1.51	68.2	-14.61	Peak	224.00	150	Horizontal	Pass
6**	12271.887	44.41	1.51	54.0	-9.59	AV	224.00	150	Horizontal	Pass

## 11ac40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.600	49.66	-17.53	68.2	-18.54	Peak	163.00	150	Vertical	Pass
1**	1501.600	34.75	-17.53	54.0	-19.25	AV	163.00	150	Vertical	Pass
2	2771.500	58.30	-10.49	68.2	-9.90	Peak	94.00	150	Vertical	Pass
2**	2771.500	44.38	-10.49	54.0	-9.62	AV	94.00	150	Vertical	Pass
3	3696.200	52.59	-5.71	68.2	-15.61	Peak	125.00	150	Vertical	Pass
3**	3696.200	44.37	-5.71	54.0	-9.63	AV	125.00	150	Vertical	Pass
4	5191.400	95.04	-2.63	--	--	Peak	164.00	150	Vertical	N/A
4**	5191.400	87.22	-2.63	--	--	AV	164.00	150	Vertical	N/A
5	7294.112	49.51	-3.65	68.2	-18.69	Peak	343.00	150	Vertical	Pass
5**	7294.112	40.00	-3.65	54.0	-14.00	AV	343.00	150	Vertical	Pass
6	12223.875	53.74	1.29	68.2	-14.46	Peak	317.00	150	Vertical	Pass
6**	12223.875	44.76	1.29	54.0	-9.24	AV	317.00	150	Vertical	Pass

## 11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.400	51.86	-17.53	68.2	-16.34	Peak	121.00	150	Horizontal	Pass
1**	1501.400	37.51	-17.53	54.0	-16.49	AV	121.00	150	Horizontal	Pass
2	2729.900	58.73	-10.95	68.2	-9.47	Peak	74.00	150	Horizontal	Pass
2**	2729.900	46.40	-10.95	54.0	-7.60	AV	74.00	150	Horizontal	Pass
3	3696.200	53.26	-5.71	68.2	-14.94	Peak	151.00	150	Horizontal	Pass
3**	3696.200	46.82	-5.71	54.0	-7.18	AV	151.00	150	Horizontal	Pass
4	5234.800	100.08	-2.83	--	--	Peak	139.00	150	Horizontal	N/A
4**	5234.800	93.34	-2.83	--	--	AV	139.00	150	Horizontal	N/A
5	7380.362	49.13	-3.61	68.2	-19.07	Peak	246.00	150	Horizontal	Pass
5**	7380.362	40.90	-3.61	54.0	-13.10	AV	246.00	150	Horizontal	Pass
6	12228.475	53.68	1.31	68.2	-14.52	Peak	121.00	150	Horizontal	Pass
6**	12228.475	44.25	1.31	54.0	-9.75	AV	121.00	150	Horizontal	Pass

## 11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.100	49.26	-17.55	68.2	-18.94	Peak	156.00	150	Vertical	Pass
1**	1501.100	35.55	-17.55	54.0	-18.45	AV	156.00	150	Vertical	Pass
2	2813.500	56.50	-10.03	68.2	-11.70	Peak	267.00	150	Vertical	Pass
2**	2813.500	36.53	-10.03	54.0	-17.47	AV	267.00	150	Vertical	Pass
3	3696.000	53.03	-5.70	68.2	-15.17	Peak	265.00	150	Vertical	Pass
3**	3696.000	44.22	-5.70	54.0	-9.78	AV	265.00	150	Vertical	Pass
4	5232.600	94.94	-2.86	--	--	Peak	77.00	150	Vertical	N/A
4**	5232.600	87.40	-2.86	--	--	AV	77.00	150	Vertical	N/A
5	7350.750	49.60	-3.87	68.2	-18.60	Peak	291.00	150	Vertical	Pass
5**	7350.750	40.52	-3.87	54.0	-13.48	AV	291.00	150	Vertical	Pass
6	12233.362	53.52	1.21	68.2	-14.68	Peak	291.00	150	Vertical	Pass
6**	12233.362	45.28	1.21	54.0	-8.72	AV	291.00	150	Vertical	Pass

## 11ac80, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.400	51.16	-17.53	68.2	-17.04	Peak	122.00	150	Horizontal	Pass
1**	1501.400	39.55	-17.53	54.0	-14.45	AV	122.00	150	Horizontal	Pass
2	2771.700	57.12	-10.49	68.2	-11.08	Peak	360.00	150	Horizontal	Pass
2**	2771.700	42.48	-10.49	54.0	-11.52	AV	360.00	150	Horizontal	Pass
3	3696.200	53.48	-5.71	68.2	-14.72	Peak	127.00	150	Horizontal	Pass
3**	3696.200	47.10	-5.71	54.0	-6.90	AV	127.00	150	Horizontal	Pass
4	5216.800	97.25	-2.88	--	--	Peak	127.00	150	Horizontal	N/A
4**	5216.800	89.50	-2.88	--	--	AV	127.00	150	Horizontal	N/A
5	7292.100	49.65	-3.65	68.2	-18.55	Peak	167.00	150	Horizontal	Pass
5**	7292.100	41.05	-3.65	54.0	-12.95	AV	167.00	150	Horizontal	Pass
6	11967.138	52.91	0.83	68.2	-15.29	Peak	217.00	150	Horizontal	Pass
6**	11967.138	43.19	0.83	54.0	-10.81	AV	217.00	150	Horizontal	Pass

## 11ac80, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.400	48.86	-17.53	68.2	-19.34	Peak	156.00	150	Vertical	Pass
1**	1501.400	37.40	-17.53	54.0	-16.60	AV	156.00	150	Vertical	Pass
2	2772.700	61.72	-10.48	68.2	-6.48	Peak	142.00	150	Vertical	Pass
2**	2772.700	43.93	-10.48	54.0	-10.07	AV	142.00	150	Vertical	Pass
3	3696.600	53.21	-5.74	68.2	-14.99	Peak	277.00	150	Vertical	Pass
3**	3696.600	43.21	-5.74	54.0	-10.79	AV	277.00	150	Vertical	Pass
4	5216.200	92.57	-2.87	--	--	Peak	74.00	150	Vertical	N/A
4**	5216.200	84.09	-2.87	--	--	AV	74.00	150	Vertical	N/A
5	7351.900	50.26	-3.85	68.2	-17.94	Peak	67.00	150	Vertical	Pass
5**	7351.900	40.51	-3.85	54.0	-13.49	AV	67.00	150	Vertical	Pass
6	11359.651	53.58	-0.24	68.2	-14.62	Peak	143.00	150	Vertical	Pass
6**	11359.651	43.23	-0.24	54.0	-10.77	AV	143.00	150	Vertical	Pass



## 11a, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.300	51.28	-17.54	68.2	-16.92	Peak	126.00	150	Horizontal	Pass
1**	1501.300	39.96	-17.54	54.0	-14.04	AV	126.00	150	Horizontal	Pass
2	2814.100	55.06	-10.04	68.2	-13.14	Peak	1.00	150	Horizontal	Pass
2**	2814.100	35.02	-10.04	54.0	-18.98	AV	1.00	150	Horizontal	Pass
3	3696.200	53.37	-5.71	68.2	-14.83	Peak	153.00	150	Horizontal	Pass
3**	3696.200	47.75	-5.71	54.0	-6.25	AV	153.00	150	Horizontal	Pass
4	5746.000	97.56	-2.47	--	--	Peak	153.00	150	Horizontal	N/A
4**	5746.000	90.08	-2.47	--	--	AV	153.00	150	Horizontal	N/A
5	7469.487	49.60	-3.84	68.2	-18.60	Peak	157.00	150	Horizontal	Pass
5**	7469.487	39.50	-3.84	54.0	-14.50	AV	157.00	150	Horizontal	Pass
6	12216.112	53.60	1.19	68.2	-14.60	Peak	337.00	150	Horizontal	Pass
6**	12216.112	45.26	1.19	54.0	-8.74	AV	337.00	150	Horizontal	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	49.14	-17.53	68.2	-19.06	Peak	147.00	150	Vertical	Pass
1**	1501.500	35.53	-17.53	54.0	-18.47	AV	147.00	150	Vertical	Pass
2	2772.200	58.88	-10.49	68.2	-9.32	Peak	265.00	150	Vertical	Pass
2**	2772.200	47.24	-10.49	54.0	-6.76	AV	265.00	150	Vertical	Pass
3	3696.600	54.10	-5.74	68.2	-14.10	Peak	136.00	150	Vertical	Pass
3**	3696.600	45.42	-5.74	54.0	-8.58	AV	136.00	150	Vertical	Pass
4	5743.400	92.16	-2.28	--	--	Peak	136.00	150	Vertical	N/A
4**	5743.400	84.63	-2.28	--	--	AV	136.00	150	Vertical	N/A
5	7677.350	49.95	-2.41	68.2	-18.25	Peak	0.00	150	Vertical	Pass
5**	7677.350	40.21	-2.41	54.0	-13.79	AV	0.00	150	Vertical	Pass
6	12256.362	53.79	1.01	68.2	-14.41	Peak	86.00	150	Vertical	Pass
6**	12256.362	44.56	1.01	54.0	-9.44	AV	86.00	150	Vertical	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	52.06	-17.53	68.2	-16.14	Peak	123.00	150	Horizontal	Pass
1**	1501.500	39.07	-17.53	54.0	-14.93	AV	123.00	150	Horizontal	Pass
2	2773.100	57.84	-10.48	68.2	-10.36	Peak	89.00	150	Horizontal	Pass
2**	2773.100	41.63	-10.48	54.0	-12.37	AV	89.00	150	Horizontal	Pass
3	3696.000	53.16	-5.70	68.2	-15.04	Peak	162.00	150	Horizontal	Pass
3**	3696.000	47.59	-5.70	54.0	-6.41	AV	162.00	150	Horizontal	Pass
4	5783.600	97.38	-2.26	--	--	Peak	151.00	150	Horizontal	N/A
4**	5783.600	89.59	-2.26	--	--	AV	151.00	150	Horizontal	N/A
5	7391.862	49.49	-4.10	68.2	-18.71	Peak	70.00	150	Horizontal	Pass
5**	7391.862	39.99	-4.10	54.0	-14.01	AV	70.00	150	Horizontal	Pass
6	11381.213	53.02	-0.28	68.2	-15.18	Peak	88.00	150	Horizontal	Pass
6**	11381.213	43.20	-0.28	54.0	-10.80	AV	88.00	150	Horizontal	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.400	49.34	-17.53	68.2	-18.86	Peak	156.00	150	Vertical	Pass
1**	1501.400	37.00	-17.53	54.0	-17.00	AV	156.00	150	Vertical	Pass
2	2714.000	55.74	-11.29	68.2	-12.46	Peak	131.00	150	Vertical	Pass
2**	2714.000	42.68	-11.29	54.0	-11.32	AV	131.00	150	Vertical	Pass
3	3696.200	54.47	-5.71	68.2	-13.73	Peak	137.00	150	Vertical	Pass
3**	3696.200	46.06	-5.71	54.0	-7.94	AV	137.00	150	Vertical	Pass
4	5784.200	92.21	-2.31	--	--	Peak	137.00	150	Vertical	N/A
4**	5784.200	85.81	-2.31	--	--	AV	137.00	150	Vertical	N/A
5	7605.188	49.43	-3.61	68.2	-18.77	Peak	224.00	150	Vertical	Pass
5**	7605.188	39.39	-3.61	54.0	-14.61	AV	224.00	150	Vertical	Pass
6	12255.500	53.43	0.99	68.2	-14.77	Peak	243.00	150	Vertical	Pass
6**	12255.500	44.40	0.99	54.0	-9.60	AV	243.00	150	Vertical	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.600	51.94	-17.53	68.2	-16.26	Peak	122.00	150	Horizontal	Pass
1**	1501.600	39.09	-17.53	54.0	-14.91	AV	122.00	150	Horizontal	Pass
2	2771.300	56.14	-10.49	68.2	-12.06	Peak	0.00	150	Horizontal	Pass
2**	2771.300	41.36	-10.49	54.0	-12.64	AV	0.00	150	Horizontal	Pass
3	3696.800	52.76	-5.75	68.2	-15.44	Peak	118.00	150	Horizontal	Pass
3**	3696.800	44.11	-5.75	54.0	-9.89	AV	118.00	150	Horizontal	Pass
4	5824.400	98.44	-2.40	--	--	Peak	157.00	150	Horizontal	N/A
4**	5824.400	90.89	-2.40	--	--	AV	157.00	150	Horizontal	N/A
5	7351.037	49.55	-3.86	68.2	-18.65	Peak	182.00	150	Horizontal	Pass
5**	7351.037	41.27	-3.86	54.0	-12.73	AV	182.00	150	Horizontal	Pass
6	11583.325	53.57	-0.32	68.2	-14.63	Peak	239.00	150	Horizontal	Pass
6**	11583.325	42.69	-0.32	54.0	-11.31	AV	239.00	150	Horizontal	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	49.32	-17.52	68.2	-18.88	Peak	152.00	150	Vertical	Pass
1**	1501.700	37.98	-17.52	54.0	-16.02	AV	152.00	150	Vertical	Pass
2	2714.000	55.37	-11.29	68.2	-12.83	Peak	141.00	150	Vertical	Pass
2**	2714.000	44.08	-11.29	54.0	-9.92	AV	141.00	150	Vertical	Pass
3	3696.200	52.64	-5.71	68.2	-15.56	Peak	265.00	150	Vertical	Pass
3**	3696.200	45.44	-5.71	54.0	-8.56	AV	265.00	150	Vertical	Pass
4	5826.600	93.89	-2.35	--	--	Peak	139.00	150	Vertical	N/A
4**	5826.600	85.78	-2.35	--	--	AV	139.00	150	Vertical	N/A
5	7463.162	49.45	-3.60	68.2	-18.75	Peak	150.00	150	Vertical	Pass
5**	7463.162	40.51	-3.60	54.0	-13.49	AV	150.00	150	Vertical	Pass
6	11727.362	53.11	0.86	68.2	-15.09	Peak	232.00	150	Vertical	Pass
6**	11727.362	43.44	0.86	54.0	-10.56	AV	232.00	150	Vertical	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.200	51.54	-17.54	68.2	-16.66	Peak	122.00	150	Horizontal	Pass
1**	1501.200	39.19	-17.54	54.0	-14.81	AV	122.00	150	Horizontal	Pass
2	2771.600	55.32	-10.49	68.2	-12.88	Peak	133.00	150	Horizontal	Pass
2**	2771.600	47.62	-10.49	54.0	-6.38	AV	133.00	150	Horizontal	Pass
3	3696.000	54.42	-5.70	68.2	-13.78	Peak	146.00	150	Horizontal	Pass
3**	3696.000	47.26	-5.70	54.0	-6.74	AV	146.00	150	Horizontal	Pass
4	5743.400	97.49	-2.28	--	--	Peak	158.00	150	Horizontal	N/A
4**	5743.400	89.33	-2.28	--	--	AV	158.00	150	Horizontal	N/A
5	7349.887	49.28	-3.87	68.2	-18.92	Peak	0.00	150	Horizontal	Pass
5**	7349.887	40.60	-3.87	54.0	-13.40	AV	0.00	150	Horizontal	Pass
6	11948.738	53.44	1.43	68.2	-14.76	Peak	70.00	150	Horizontal	Pass
6**	11948.738	44.49	1.43	54.0	-9.51	AV	70.00	150	Horizontal	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	48.90	-17.52	68.2	-19.30	Peak	156.00	150	Vertical	Pass
1**	1501.700	34.90	-17.52	54.0	-19.10	AV	156.00	150	Vertical	Pass
2	2730.800	58.73	-10.93	68.2	-9.47	Peak	122.00	150	Vertical	Pass
2**	2730.800	34.53	-10.93	54.0	-19.47	AV	122.00	150	Vertical	Pass
3	4775.400	51.88	-2.98	68.2	-16.32	Peak	0.00	150	Vertical	Pass
3**	4775.400	42.40	-2.98	54.0	-11.60	AV	0.00	150	Vertical	Pass
4	5743.400	92.74	-2.28	--	-37.26	Peak	130.00	150	Vertical	N/A
4**	5743.400	85.47	-2.28	--	85.47	AV	130.00	150	Vertical	N/A
5	7332.638	49.64	-3.55	68.2	-18.56	Peak	271.00	150	Vertical	Pass
5**	7332.638	40.58	-3.55	54.0	-13.42	AV	271.00	150	Vertical	Pass
6	12255.213	53.49	0.99	68.2	-14.71	Peak	297.00	150	Vertical	Pass
6**	12255.213	43.74	0.99	54.0	-10.26	AV	297.00	150	Vertical	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.600	51.26	-17.53	68.2	-16.94	Peak	153.00	150	Horizontal	Pass
1**	1501.600	39.67	-17.53	54.0	-14.33	AV	153.00	150	Horizontal	Pass
2	2771.400	58.86	-10.49	68.2	-9.34	Peak	341.00	150	Horizontal	Pass
2**	2771.400	43.62	-10.49	54.0	-10.38	AV	341.00	150	Horizontal	Pass
3	3695.800	55.57	-5.69	68.2	-12.63	Peak	135.00	150	Horizontal	Pass
3**	3695.800	46.72	-5.69	54.0	-7.28	AV	135.00	150	Horizontal	Pass
4	5786.200	97.59	-2.45	--	--	Peak	148.00	150	Horizontal	N/A
4**	5786.200	89.42	-2.45	--	--	AV	148.00	150	Horizontal	N/A
5	7470.350	49.35	-3.95	68.2	-18.85	Peak	245.00	150	Horizontal	Pass
5**	7470.350	39.38	-3.95	54.0	-14.62	AV	245.00	150	Horizontal	Pass
6	11974.038	53.60	0.81	68.2	-14.60	Peak	169.00	150	Horizontal	Pass
6**	11974.038	44.13	0.81	54.0	-9.87	AV	169.00	150	Horizontal	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.200	49.06	-17.54	68.2	-19.14	Peak	157.00	150	Vertical	Pass
1**	1501.200	37.24	-17.54	54.0	-16.76	AV	157.00	150	Vertical	Pass
2	2771.300	56.68	-10.49	68.2	-11.52	Peak	236.00	150	Vertical	Pass
2**	2771.300	41.18	-10.49	54.0	-12.82	AV	236.00	150	Vertical	Pass
3	3695.600	53.56	-5.67	68.2	-14.64	Peak	148.00	150	Vertical	Pass
3**	3695.600	44.15	-5.67	54.0	-9.85	AV	148.00	150	Vertical	Pass
4	5783.000	92.89	-2.22	--	--	Peak	135.00	150	Vertical	N/A
4**	5783.000	86.34	-2.22	--	--	AV	135.00	150	Vertical	N/A
5	7337.238	49.72	-3.51	68.2	-18.48	Peak	322.00	150	Vertical	Pass
5**	7337.238	40.86	-3.51	54.0	-13.14	AV	322.00	150	Vertical	Pass
6	10933.862	53.19	0.01	68.2	-15.01	Peak	322.00	150	Vertical	Pass
6**	10933.862	42.32	0.01	54.0	-11.68	AV	322.00	150	Vertical	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	51.08	-17.52	68.2	-17.12	Peak	122.00	150	Horizontal	Pass
1**	1501.700	39.43	-17.52	54.0	-14.57	AV	122.00	150	Horizontal	Pass
2	2771.100	57.56	-10.50	68.2	-10.64	Peak	251.00	150	Horizontal	Pass
2**	2771.100	42.34	-10.50	54.0	-11.66	AV	251.00	150	Horizontal	Pass
3	3696.000	54.78	-5.70	68.2	-13.42	Peak	143.00	150	Horizontal	Pass
3**	3696.000	47.15	-5.70	54.0	-6.85	AV	143.00	150	Horizontal	Pass
4	5826.400	97.54	-2.35	--	--	Peak	143.00	150	Horizontal	N/A
4**	5826.400	90.18	-2.35	--	--	AV	143.00	150	Horizontal	N/A
5	7336.375	50.27	-3.43	68.2	-17.93	Peak	92.00	150	Horizontal	Pass
5**	7336.375	40.00	-3.43	54.0	-14.00	AV	92.00	150	Horizontal	Pass
6	12405.862	53.37	1.47	68.2	-14.83	Peak	362.00	150	Horizontal	Pass
6**	12405.862	43.74	1.47	54.0	-10.26	AV	362.00	150	Horizontal	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.300	49.20	-17.54	68.2	-19.00	Peak	155.00	150	Vertical	Pass
1**	1501.300	33.94	-17.54	54.0	-20.06	AV	155.00	150	Vertical	Pass
2	2813.200	56.15	-10.05	68.2	-12.05	Peak	121.00	150	Vertical	Pass
2**	2813.200	36.03	-10.05	54.0	-17.97	AV	121.00	150	Vertical	Pass
3	3697.000	53.21	-5.76	68.2	-14.99	Peak	131.00	150	Vertical	Pass
3**	3697.000	46.00	-5.76	54.0	-8.00	AV	131.00	150	Vertical	Pass
4	5826.200	94.18	-2.36	--	--	Peak	131.00	150	Vertical	N/A
4**	5826.200	86.26	-2.36	--	--	AV	131.00	150	Vertical	N/A
5	7624.450	49.22	-3.02	68.2	-18.98	Peak	0.00	150	Vertical	Pass
5**	7624.450	39.90	-3.02	54.0	-14.10	AV	0.00	150	Vertical	Pass
6	12257.225	53.95	1.02	68.2	-14.25	Peak	242.00	150	Vertical	Pass
6**	12257.225	45.15	1.02	54.0	-8.85	AV	242.00	150	Vertical	Pass

## 11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1097.000	52.77	-18.56	68.2	-15.43	Peak	134.00	150	Horizontal	Pass
1**	1097.000	40.99	-18.56	54.0	-13.01	AV	134.00	150	Horizontal	Pass
2	2813.900	55.86	-10.03	68.2	-12.34	Peak	344.00	150	Horizontal	Pass
2**	2813.900	34.96	-10.03	54.0	-19.04	AV	344.00	150	Horizontal	Pass
3	3696.000	54.74	-5.70	68.2	-13.46	Peak	150.00	150	Horizontal	Pass
3**	3696.000	46.94	-5.70	54.0	-7.06	AV	150.00	150	Horizontal	Pass
4	5756.800	93.91	-2.03	--	--	Peak	150.00	150	Horizontal	N/A
4**	5756.800	86.53	-2.03	--	--	AV	150.00	150	Horizontal	N/A
5	7286.350	50.27	-3.69	68.2	-17.93	Peak	315.00	150	Horizontal	Pass
5**	7286.350	40.54	-3.69	54.0	-13.46	AV	315.00	150	Horizontal	Pass
6	12214.674	53.44	1.17	68.2	-14.76	Peak	360.00	150	Horizontal	Pass
6**	12214.674	44.27	1.17	54.0	-9.73	AV	360.00	150	Horizontal	Pass

## 11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.300	48.69	-17.54	68.2	-19.51	Peak	160.00	150	Vertical	Pass
1**	1501.300	34.87	-17.54	54.0	-19.13	AV	160.00	150	Vertical	Pass
2	2773.100	58.25	-10.48	68.2	-9.95	Peak	251.00	150	Vertical	Pass
2**	2773.100	41.48	-10.48	54.0	-12.52	AV	251.00	150	Vertical	Pass
3	3696.400	54.37	-5.72	68.2	-13.83	Peak	130.00	150	Vertical	Pass
3**	3696.400	46.14	-5.72	54.0	-7.86	AV	130.00	150	Vertical	Pass
4	5758.000	89.45	-1.99	--	--	Peak	130.00	150	Vertical	N/A
4**	5758.000	80.92	-1.99	--	--	AV	130.00	150	Vertical	N/A
5	7350.175	49.44	-3.87	68.2	-18.76	Peak	169.00	150	Vertical	Pass
5**	7350.175	39.92	-3.87	54.0	-14.08	AV	169.00	150	Vertical	Pass
6	11708.100	52.98	0.55	68.2	-15.22	Peak	70.00	150	Vertical	Pass
6**	11708.100	43.44	0.55	54.0	-10.56	AV	70.00	150	Vertical	Pass

## 11n40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1097.400	52.88	-18.56	68.2	-15.32	Peak	145.00	150	Horizontal	Pass
1**	1097.400	42.39	-18.56	54.0	-11.61	AV	145.00	150	Horizontal	Pass
2	2729.500	56.36	-10.96	68.2	-11.84	Peak	353.00	150	Horizontal	Pass
2**	2729.500	35.72	-10.96	54.0	-18.28	AV	353.00	150	Horizontal	Pass
3	3695.400	55.20	-5.69	68.2	-13.00	Peak	142.00	150	Horizontal	Pass
3**	3695.400	43.70	-5.69	54.0	-10.30	AV	142.00	150	Horizontal	Pass
4	5799.000	94.90	-2.76	--	--	Peak	154.00	150	Horizontal	N/A
4**	5799.000	86.65	-2.76	--	--	AV	154.00	150	Horizontal	N/A
5	7390.138	49.24	-4.04	68.2	-18.96	Peak	212.00	150	Horizontal	Pass
5**	7390.138	40.27	-4.04	54.0	-13.73	AV	212.00	150	Horizontal	Pass
6	11925.450	53.47	1.52	68.2	-14.73	Peak	0.00	150	Horizontal	Pass
6**	11925.450	42.89	1.52	54.0	-11.11	AV	0.00	150	Horizontal	Pass

## 11n40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.600	48.61	-17.53	68.2	-19.59	Peak	157.00	150	Vertical	Pass
1**	1501.600	37.31	-17.53	54.0	-16.69	AV	157.00	150	Vertical	Pass
2	2813.800	59.21	-10.02	68.2	-8.99	Peak	261.00	150	Vertical	Pass
2**	2813.800	35.57	-10.02	54.0	-18.43	AV	261.00	150	Vertical	Pass
3	3695.400	53.93	-5.69	68.2	-14.27	Peak	159.00	150	Vertical	Pass
3**	3695.400	41.95	-5.69	54.0	-12.05	AV	159.00	150	Vertical	Pass
4	5793.600	91.18	-2.55	--	--	Peak	133.00	150	Vertical	N/A
4**	5793.600	82.98	-2.55	--	--	AV	133.00	150	Vertical	N/A
5	7332.925	50.18	-3.54	68.2	-18.02	Peak	93.00	150	Vertical	Pass
5**	7332.925	40.02	-3.54	54.0	-13.98	AV	93.00	150	Vertical	Pass
6	12296.901	53.01	1.54	68.2	-15.19	Peak	167.00	150	Vertical	Pass
6**	12296.901	43.86	1.54	54.0	-10.14	AV	167.00	150	Vertical	Pass



## 11ac20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	51.93	-17.53	68.2	-16.27	Peak	120.00	150	Horizontal	Pass
1**	1501.500	40.22	-17.53	54.0	-13.78	AV	120.00	150	Horizontal	Pass
2	2730.100	58.11	-10.95	68.2	-10.09	Peak	21.00	150	Horizontal	Pass
2**	2730.100	34.71	-10.95	54.0	-19.29	AV	21.00	150	Horizontal	Pass
3	3695.600	55.48	-5.67	68.2	-12.72	Peak	152.00	150	Horizontal	Pass
3**	3695.600	45.15	-5.67	54.0	-8.85	AV	152.00	150	Horizontal	Pass
4	5746.400	98.00	-2.43	--	--	Peak	152.00	150	Horizontal	N/A
4**	5746.400	91.47	-2.43	--	--	AV	152.00	150	Horizontal	N/A
5	7619.275	49.17	-2.96	68.2	-19.03	Peak	281.00	150	Horizontal	Pass
5**	7619.275	39.44	-2.96	54.0	-14.56	AV	281.00	150	Horizontal	Pass
6	11949.887	53.19	1.40	68.2	-15.01	Peak	71.00	150	Horizontal	Pass
6**	11949.887	43.91	1.40	54.0	-10.09	AV	71.00	150	Horizontal	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.100	48.32	-17.55	68.2	-19.88	Peak	150.00	150	Vertical	Pass
1**	1501.100	37.37	-17.55	54.0	-16.63	AV	150.00	150	Vertical	Pass
2	2813.900	57.22	-10.03	68.2	-10.98	Peak	242.00	150	Vertical	Pass
2**	2813.900	45.43	-10.03	54.0	-8.57	AV	242.00	150	Vertical	Pass
3	3696.000	53.17	-5.70	68.2	-15.03	Peak	136.00	150	Vertical	Pass
3**	3696.000	45.64	-5.70	54.0	-8.36	AV	136.00	150	Vertical	Pass
4	5746.200	94.04	-2.46	--	--	Peak	136.00	150	Vertical	N/A
4**	5746.200	86.95	-2.46	--	--	AV	136.00	150	Vertical	N/A
5	7344.138	49.61	-3.56	68.2	-18.59	Peak	360.00	150	Vertical	Pass
5**	7344.138	40.53	-3.56	54.0	-13.47	AV	360.00	150	Vertical	Pass
6	11608.050	53.29	-0.04	68.2	-14.91	Peak	44.00	150	Vertical	Pass
6**	11608.050	43.20	-0.04	54.0	-10.80	AV	44.00	150	Vertical	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1097.500	53.01	-18.55	68.2	-15.19	Peak	145.00	150	Horizontal	Pass
1**	1097.500	37.06	-18.55	54.0	-16.94	AV	145.00	150	Horizontal	Pass
2	2772.600	59.66	-10.48	68.2	-8.54	Peak	117.00	150	Horizontal	Pass
2**	2772.600	42.55	-10.48	54.0	-11.45	AV	117.00	150	Horizontal	Pass
3	3696.400	56.60	-5.72	68.2	-11.60	Peak	150.00	150	Horizontal	Pass
3**	3696.400	48.02	-5.72	54.0	-5.98	AV	150.00	150	Horizontal	Pass
4	5786.400	98.50	-2.46	--	--	Peak	150.00	150	Horizontal	N/A
4**	5786.400	90.14	-2.46	--	--	AV	150.00	150	Horizontal	N/A
5	7352.763	49.08	-3.85	68.2	-19.12	Peak	20.00	150	Horizontal	Pass
5**	7352.763	39.81	-3.85	54.0	-14.19	AV	20.00	150	Horizontal	Pass
6	12211.512	53.16	1.07	68.2	-15.04	Peak	251.00	150	Horizontal	Pass
6**	12211.512	43.95	1.07	54.0	-10.05	AV	251.00	150	Horizontal	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.700	48.24	-17.52	68.2	-19.96	Peak	153.00	150	Vertical	Pass
1**	1501.700	35.70	-17.52	54.0	-18.30	AV	153.00	150	Vertical	Pass
2	2813.400	58.77	-10.03	68.2	-9.43	Peak	247.00	150	Vertical	Pass
2**	2813.400	35.99	-10.03	54.0	-18.01	AV	247.00	150	Vertical	Pass
3	3696.200	55.21	-5.71	68.2	-12.99	Peak	128.00	150	Vertical	Pass
3**	3696.200	45.98	-5.71	54.0	-8.02	AV	128.00	150	Vertical	Pass
4	5783.400	95.27	-2.25	--	--	Peak	128.00	150	Vertical	N/A
4**	5783.400	86.55	-2.25	--	--	AV	128.00	150	Vertical	N/A
5	7682.525	49.48	-2.71	68.2	-18.72	Peak	117.00	150	Vertical	Pass
5**	7682.525	40.28	-2.71	54.0	-13.72	AV	117.00	150	Vertical	Pass
6	12230.776	53.75	1.28	68.2	-14.45	Peak	317.00	150	Vertical	Pass
6**	12230.776	44.25	1.28	54.0	-9.75	AV	317.00	150	Vertical	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1097.300	53.09	-18.56	68.2	-15.11	Peak	144.00	150	Horizontal	Pass
1**	1097.300	40.58	-18.56	54.0	-13.42	AV	144.00	150	Horizontal	Pass
2	2730.500	58.99	-10.94	68.2	-9.21	Peak	21.00	150	Horizontal	Pass
2**	2730.500	35.29	-10.94	54.0	-18.71	AV	21.00	150	Horizontal	Pass
3	3696.200	53.62	-5.71	68.2	-14.58	Peak	151.00	150	Horizontal	Pass
3**	3696.200	47.84	-5.71	54.0	-6.16	AV	151.00	150	Horizontal	Pass
4	5823.400	98.63	-2.41	--	--	Peak	151.00	150	Horizontal	N/A
4**	5823.400	90.36	-2.41	--	--	AV	151.00	150	Horizontal	N/A
5	7343.850	50.04	-3.56	68.2	-18.16	Peak	360.00	150	Horizontal	Pass
5**	7343.850	40.45	-3.56	54.0	-13.55	AV	360.00	150	Horizontal	Pass
6	11637.950	53.00	-0.23	68.2	-15.20	Peak	283.00	150	Horizontal	Pass
6**	11637.950	43.78	-0.23	54.0	-10.22	AV	283.00	150	Horizontal	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	48.93	-17.53	68.2	-19.27	Peak	163.00	150	Vertical	Pass
1**	1501.500	37.02	-17.53	54.0	-16.98	AV	163.00	150	Vertical	Pass
2	2714.000	53.09	-11.29	68.2	-15.11	Peak	135.00	150	Vertical	Pass
2**	2714.000	38.90	-11.29	54.0	-15.10	AV	135.00	150	Vertical	Pass
3	3696.400	54.99	-5.72	68.2	-13.21	Peak	139.00	150	Vertical	Pass
3**	3696.400	45.75	-5.72	54.0	-8.25	AV	139.00	150	Vertical	Pass
4	5826.400	94.56	-2.35	--	--	Peak	139.00	150	Vertical	N/A
4**	5826.400	87.20	-2.35	--	--	AV	139.00	150	Vertical	N/A
5	7347.588	49.79	-3.84	68.2	-18.41	Peak	297.00	150	Vertical	Pass
5**	7347.588	40.35	-3.84	54.0	-13.65	AV	297.00	150	Vertical	Pass
6	12269.875	53.38	1.45	68.2	-14.82	Peak	95.00	150	Vertical	Pass
6**	12269.875	43.54	1.45	54.0	-10.46	AV	95.00	150	Vertical	Pass

## 11ac40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1097.100	51.71	-18.56	68.2	-16.49	Peak	140.00	150	Horizontal	Pass
1**	1097.100	39.16	-18.56	54.0	-14.84	AV	140.00	150	Horizontal	Pass
2	2729.000	55.30	-10.97	68.2	-12.90	Peak	80.00	150	Horizontal	Pass
2**	2729.000	35.09	-10.97	54.0	-18.91	AV	80.00	150	Horizontal	Pass
3	3696.000	55.67	-5.70	68.2	-12.53	Peak	140.00	150	Horizontal	Pass
3**	3696.000	48.95	-5.70	54.0	-5.05	AV	140.00	150	Horizontal	Pass
4	5757.600	95.52	-2.00	--	--	Peak	152.00	150	Horizontal	N/A
4**	5757.600	87.27	-2.00	--	--	AV	152.00	150	Horizontal	N/A
5	7347.588	49.26	-3.84	68.2	-18.94	Peak	179.00	150	Horizontal	Pass
5**	7347.588	40.06	-3.84	54.0	-13.94	AV	179.00	150	Horizontal	Pass
6	12302.937	53.06	1.42	68.2	-15.14	Peak	230.00	150	Horizontal	Pass
6**	12302.937	43.03	1.42	54.0	-10.97	AV	230.00	150	Horizontal	Pass

## 11ac40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.300	49.11	-17.54	68.2	-19.09	Peak	152.00	150	Vertical	Pass
1**	1501.300	36.60	-17.54	54.0	-17.40	AV	152.00	150	Vertical	Pass
2	2769.800	54.33	-10.58	68.2	-13.87	Peak	98.00	150	Vertical	Pass
2**	2769.800	37.41	-10.58	54.0	-16.59	AV	98.00	150	Vertical	Pass
3	3696.000	53.89	-5.70	68.2	-14.31	Peak	161.00	150	Vertical	Pass
3**	3696.000	44.65	-5.70	54.0	-9.35	AV	161.00	150	Vertical	Pass
4	5752.200	90.84	-2.19	--	--	Peak	134.00	150	Vertical	N/A
4**	5752.200	83.49	-2.19	--	--	AV	134.00	150	Vertical	N/A
5	7376.337	49.31	-3.74	68.2	-18.89	Peak	0.00	150	Vertical	Pass
5**	7376.337	39.97	-3.74	54.0	-14.03	AV	0.00	150	Vertical	Pass
6	12215.250	53.16	1.19	68.2	-15.04	Peak	325.00	150	Vertical	Pass
6**	12215.250	44.07	1.19	54.0	-9.93	AV	325.00	150	Vertical	Pass

## 11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1097.300	52.40	-18.56	68.2	-15.80	Peak	129.00	150	Horizontal	Pass
1**	1097.300	35.87	-18.56	54.0	-18.13	AV	129.00	150	Horizontal	Pass
2	2771.900	57.56	-10.49	68.2	-10.64	Peak	276.00	150	Horizontal	Pass
2**	2771.900	42.82	-10.49	54.0	-11.18	AV	276.00	150	Horizontal	Pass
3	3695.600	55.26	-5.67	68.2	-12.94	Peak	158.00	150	Horizontal	Pass
3**	3695.600	45.37	-5.67	54.0	-8.63	AV	158.00	150	Horizontal	Pass
4	5797.600	94.67	-2.72	--	--	Peak	158.00	150	Horizontal	N/A
4**	5797.600	86.41	-2.72	--	--	AV	158.00	150	Horizontal	N/A
5	7453.675	49.09	-3.90	68.2	-19.11	Peak	98.00	150	Horizontal	Pass
5**	7453.675	39.88	-3.90	54.0	-14.12	AV	98.00	150	Horizontal	Pass
6	11932.349	53.51	1.62	68.2	-14.69	Peak	228.00	150	Horizontal	Pass
6**	11932.349	44.35	1.62	54.0	-9.65	AV	228.00	150	Horizontal	Pass

## 11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.400	49.46	-17.53	68.2	-18.74	Peak	163.00	150	Vertical	Pass
1**	1501.400	36.99	-17.53	54.0	-17.01	AV	163.00	150	Vertical	Pass
2	2730.600	58.60	-10.93	68.2	-9.60	Peak	88.00	150	Vertical	Pass
2**	2730.600	34.68	-10.93	54.0	-19.32	AV	88.00	150	Vertical	Pass
3	3696.000	54.28	-5.70	68.2	-13.92	Peak	154.00	150	Vertical	Pass
3**	3696.000	45.92	-5.70	54.0	-8.08	AV	154.00	150	Vertical	Pass
4	5796.200	90.87	-2.64	--	--	Peak	127.00	150	Vertical	N/A
4**	5796.200	82.45	-2.64	--	--	AV	127.00	150	Vertical	N/A
5	7357.938	49.25	-4.11	68.2	-18.95	Peak	360.00	150	Vertical	Pass
5**	7357.938	40.11	-4.11	54.0	-13.89	AV	360.00	150	Vertical	Pass
6	12288.850	53.50	1.69	68.2	-14.70	Peak	20.00	150	Vertical	Pass
6**	12288.850	43.95	1.69	54.0	-10.05	AV	20.00	150	Vertical	Pass

## 11ac80, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1097.200	52.50	-18.56	68.2	-15.70	Peak	146.00	150	Horizontal	Pass
1**	1097.200	38.06	-18.56	54.0	-15.94	AV	146.00	150	Horizontal	Pass
2	2772.300	59.20	-10.49	68.2	-9.00	Peak	343.00	150	Horizontal	Pass
2**	2772.300	42.18	-10.49	54.0	-11.82	AV	343.00	150	Horizontal	Pass
3	3696.400	54.27	-5.72	68.2	-13.93	Peak	156.00	150	Horizontal	Pass
3**	3696.400	47.45	-5.72	54.0	-6.55	AV	156.00	150	Horizontal	Pass
4	5781.400	91.73	-2.14	--	--	Peak	156.00	150	Horizontal	N/A
4**	5781.400	83.73	-2.14	--	--	AV	156.00	150	Horizontal	N/A
5	7360.237	49.29	-4.04	68.2	-18.91	Peak	197.00	150	Horizontal	Pass
5**	7360.237	40.29	-4.04	54.0	-13.71	AV	197.00	150	Horizontal	Pass
6	12298.912	53.26	1.50	68.2	-14.94	Peak	122.00	150	Horizontal	Pass
6**	12298.912	43.73	1.50	54.0	-10.27	AV	122.00	150	Horizontal	Pass

## 11ac80, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

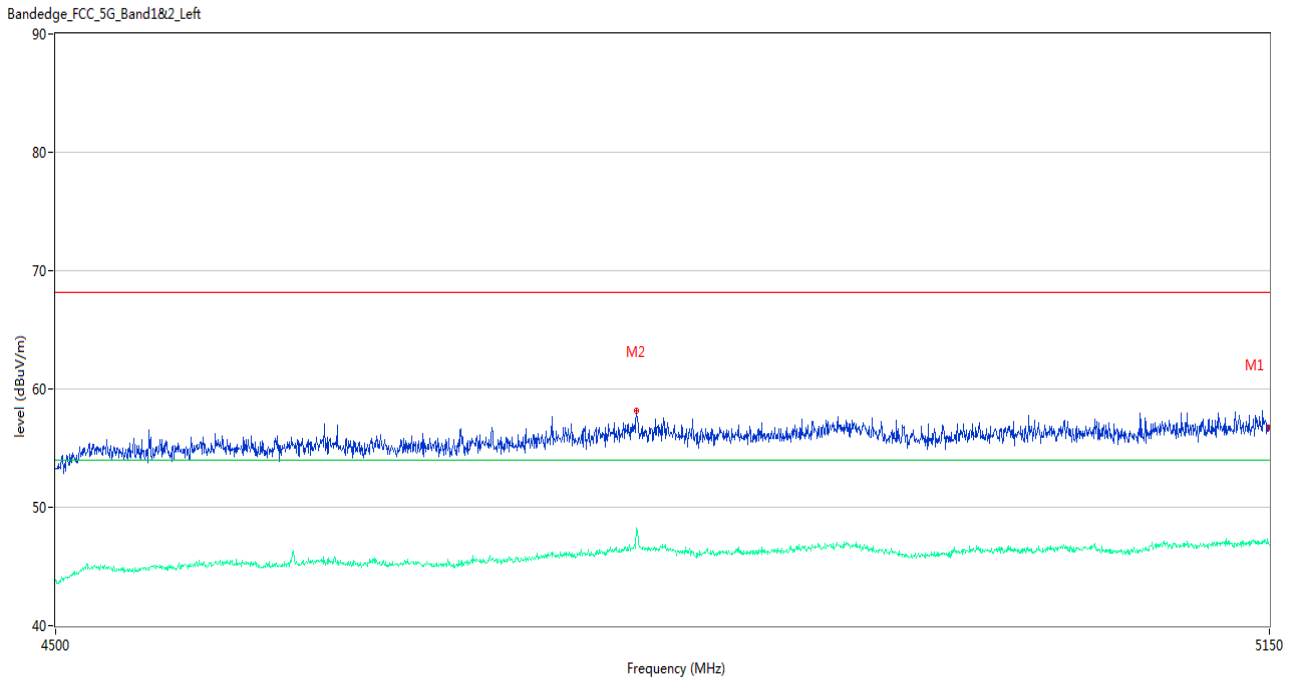
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.100	48.64	-17.55	68.2	-19.56	Peak	151.00	150	Vertical	Pass
1**	1501.100	31.01	-17.55	54.0	-22.99	AV	151.00	150	Vertical	Pass
2	2771.600	56.70	-10.49	68.2	-11.50	Peak	228.00	150	Vertical	Pass
2**	2771.600	44.64	-10.49	54.0	-9.36	AV	228.00	150	Vertical	Pass
3	3696.400	54.76	-5.72	68.2	-13.44	Peak	135.00	150	Vertical	Pass
3**	3696.400	45.84	-5.72	54.0	-8.16	AV	135.00	150	Vertical	Pass
4	5763.600	88.12	-1.84	--	--	Peak	135.00	150	Vertical	N/A
4**	5763.600	80.19	-1.84	--	--	AV	135.00	150	Vertical	N/A
5	7340.112	49.72	-3.52	68.2	-18.48	Peak	283.00	150	Vertical	Pass
5**	7340.112	40.59	-3.52	54.0	-13.41	AV	283.00	150	Vertical	Pass
6	12335.425	53.59	1.34	68.2	-14.61	Peak	20.00	150	Vertical	Pass
6**	12335.425	44.10	1.34	54.0	-9.90	AV	20.00	150	Vertical	Pass

## A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
802.11ac(VHT80)	Middle	Pass	
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
802.11ac(VHT80)	Middle	Pass	

Test Data and Plots

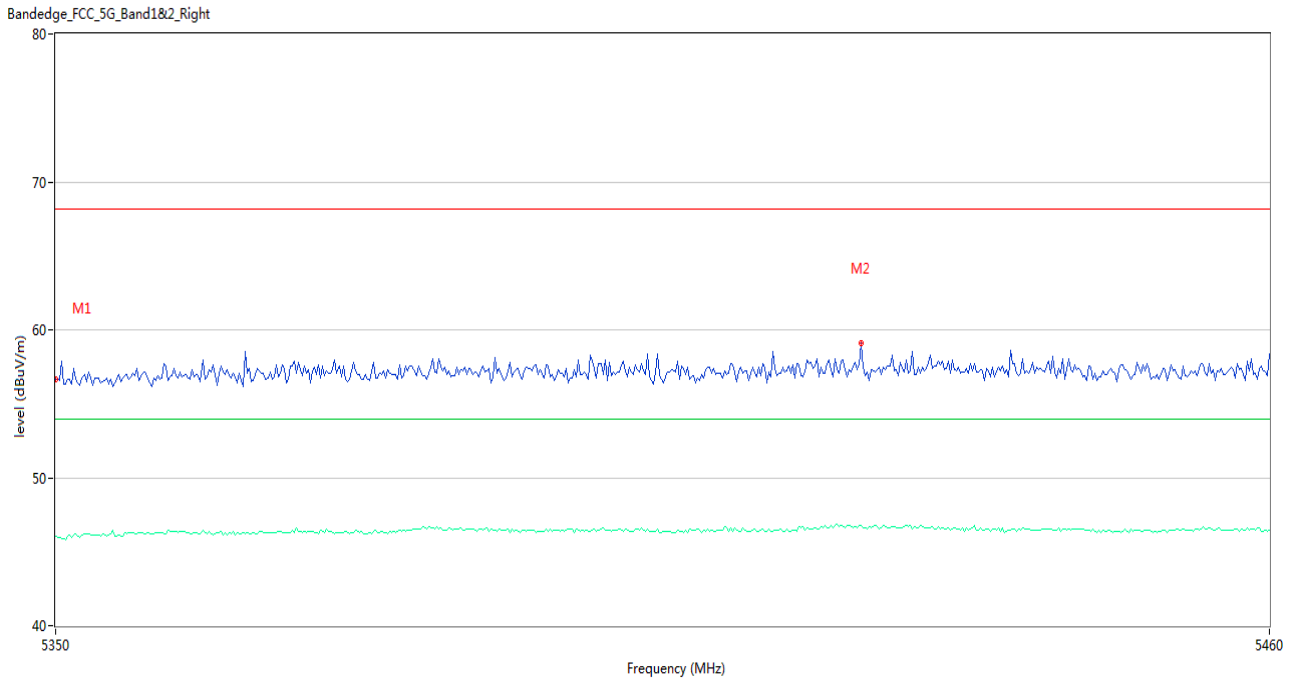
U-NII-1 11a CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.78	3.22	68.2	-11.42	Peak	115.00	150	Horizontal	Pass
1**	5150.000	46.89	3.22	54.0	-7.11	AV	115.00	150	Horizontal	Pass
2	4800.300	58.14	3.45	68.2	-10.06	Peak	110.00	150	Horizontal	Pass
2**	4800.300	48.22	3.45	54.0	-5.78	AV	110.00	150	Horizontal	Pass

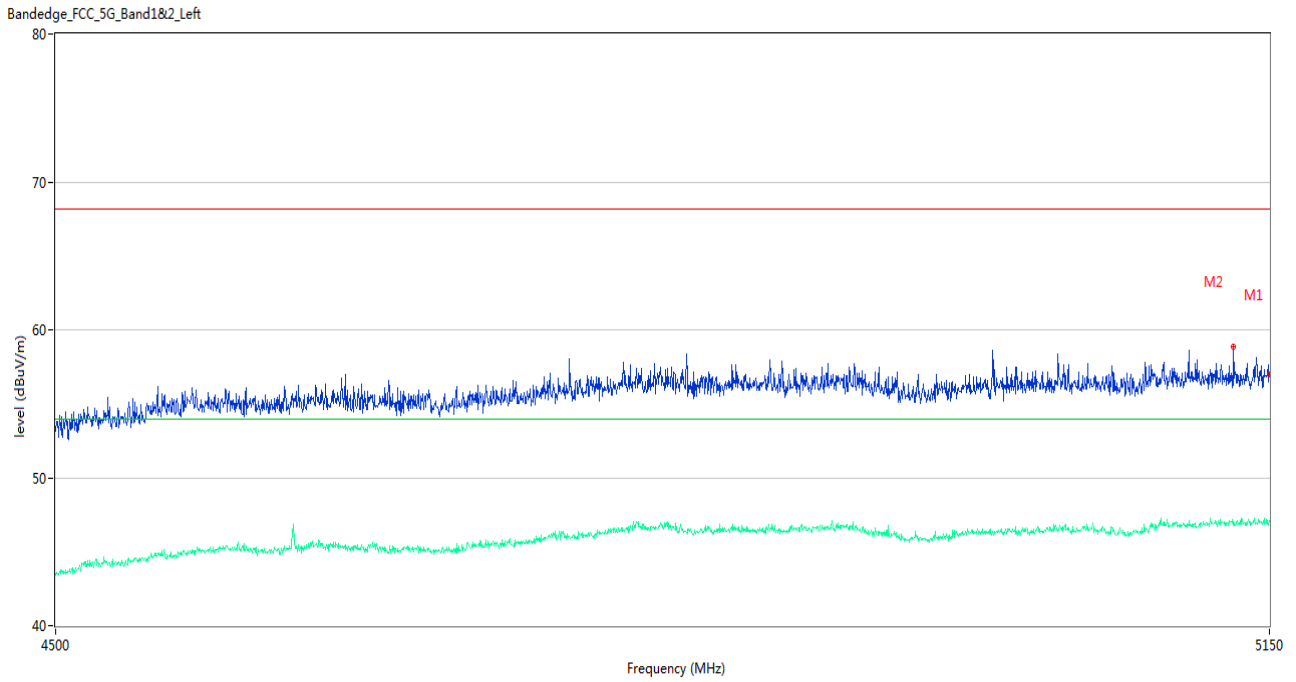


U-NII-1 11a CH48



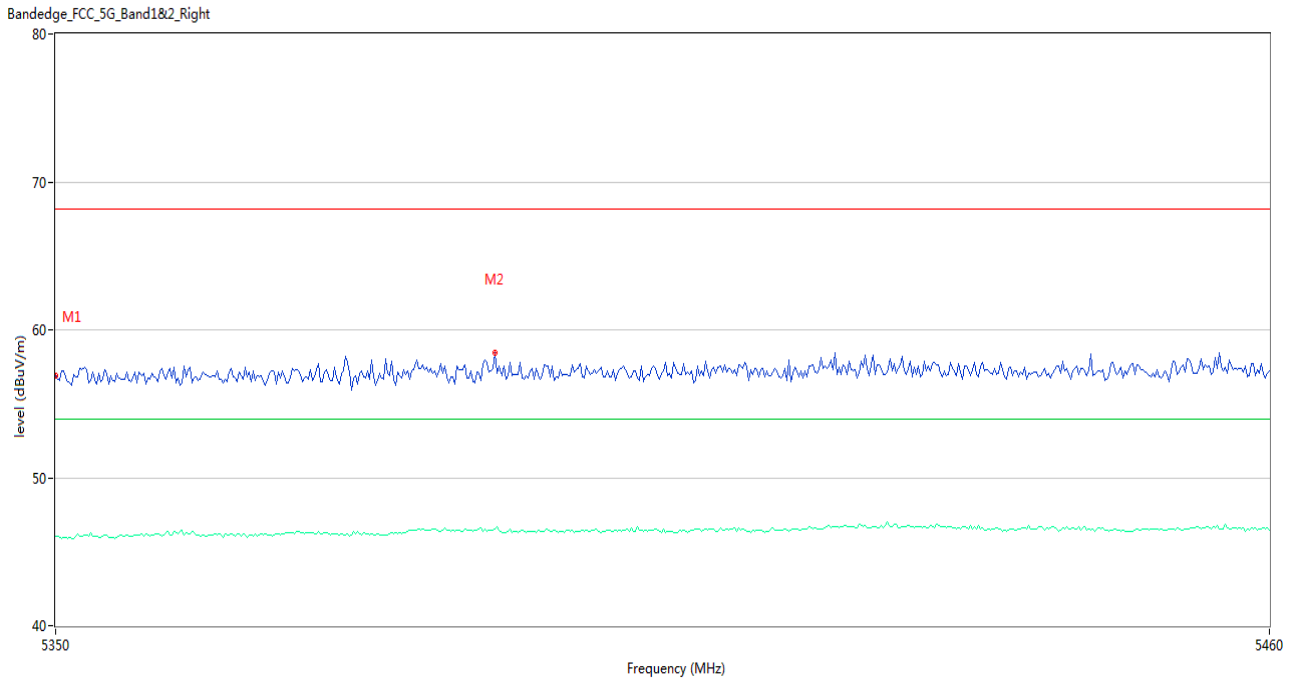
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.62	2.98	68.2	-11.58	Peak	155.00	150	Horizontal	Pass
1**	5350.000	46.03	2.98	54.0	-7.97	AV	155.00	150	Horizontal	Pass
2	5422.783	59.14	3.29	68.2	-9.06	Peak	328.00	150	Horizontal	Pass
2**	5422.783	46.79	3.29	54.0	-7.21	AV	328.00	150	Horizontal	Pass

U-NII-1 11n20 CH36



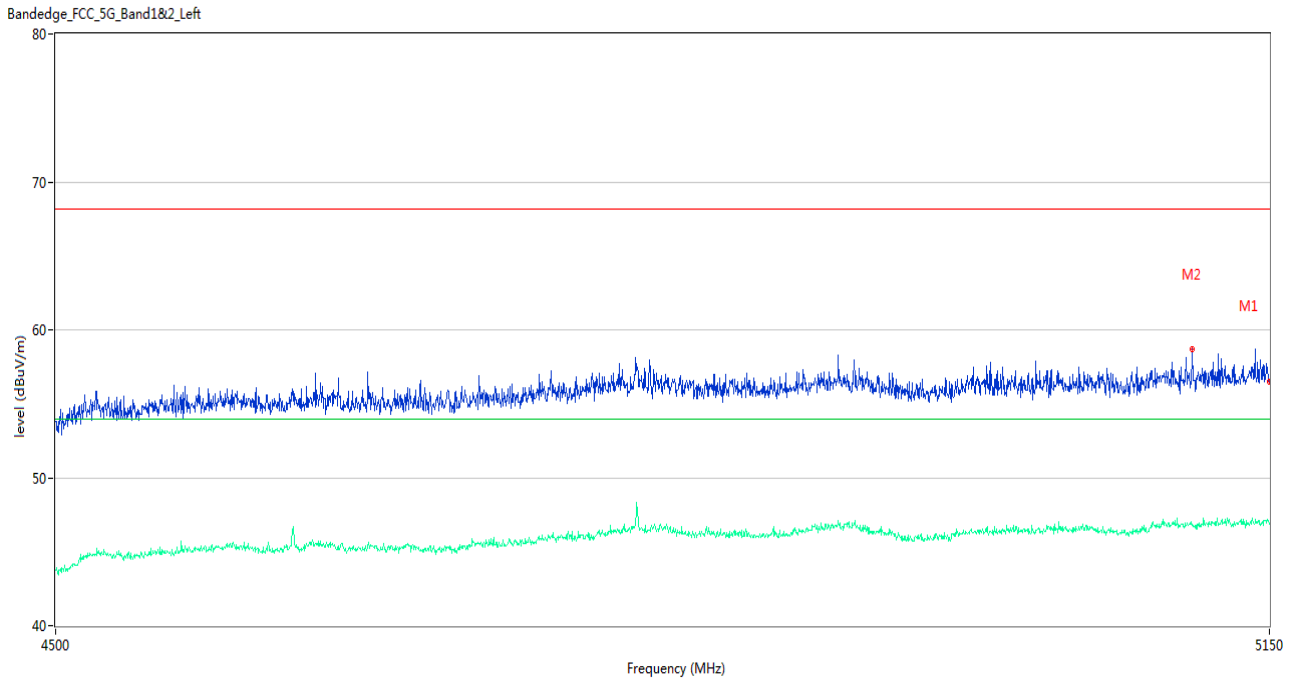
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.94	3.22	68.2	-11.26	Peak	319.00	150	Horizontal	Pass
1**	5150.000	47.07	3.22	54.0	-6.93	AV	319.00	150	Horizontal	Pass
2	5129.525	58.83	3.65	68.2	-9.37	Peak	97.00	150	Horizontal	Pass
2**	5129.525	46.76	3.65	54.0	-7.24	AV	97.00	150	Horizontal	Pass

U-NII-1 11n20 CH48



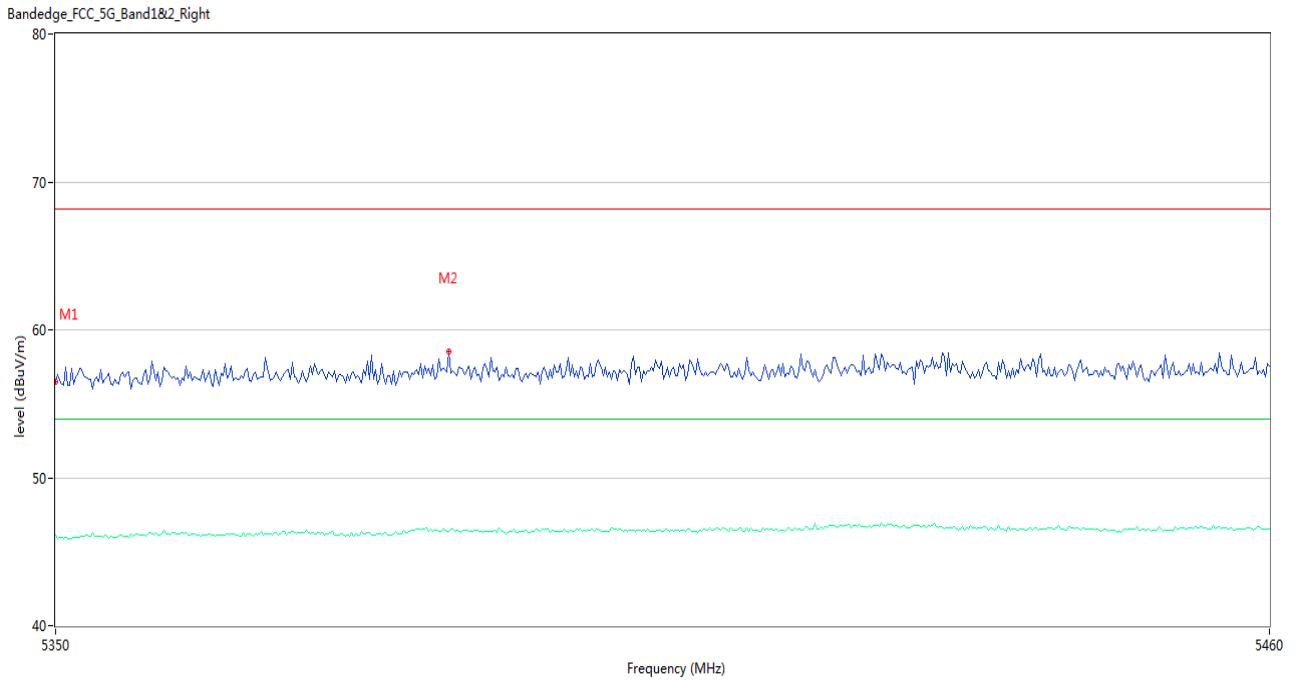
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.92	2.98	68.2	-11.28	Peak	68.00	150	Horizontal	Pass
1**	5350.000	46.02	2.98	54.0	-7.98	AV	68.00	150	Horizontal	Pass
2	5389.600	58.47	3.38	68.2	-9.73	Peak	235.00	150	Horizontal	Pass
2**	5389.600	46.53	3.38	54.0	-7.47	AV	235.00	150	Horizontal	Pass

U-NII-1 11n40 CH38



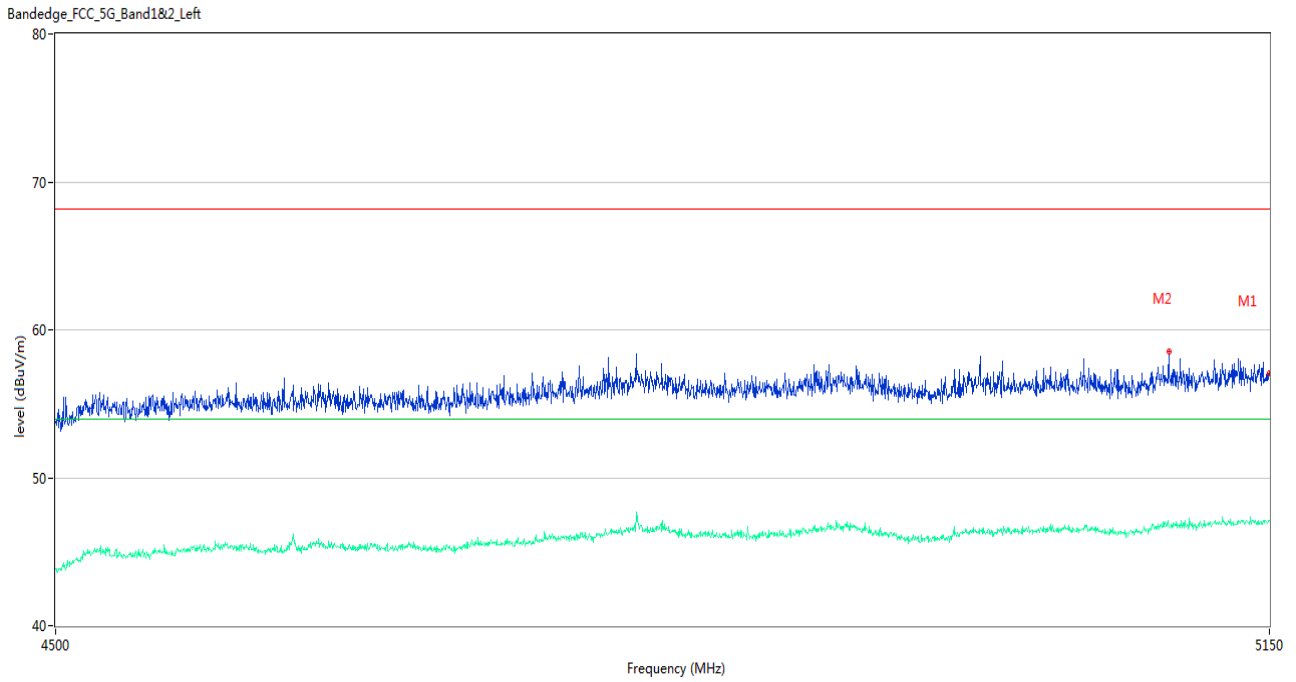
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.50	3.22	68.2	-11.70	Peak	70.00	150	Horizontal	Pass
1**	5150.000	46.86	3.22	54.0	-7.14	AV	70.00	150	Horizontal	Pass
2	5106.125	58.71	3.59	68.2	-9.49	Peak	343.00	150	Horizontal	Pass
2**	5106.125	46.89	3.59	54.0	-7.11	AV	343.00	150	Horizontal	Pass

U-NII-1 11n40 CH46



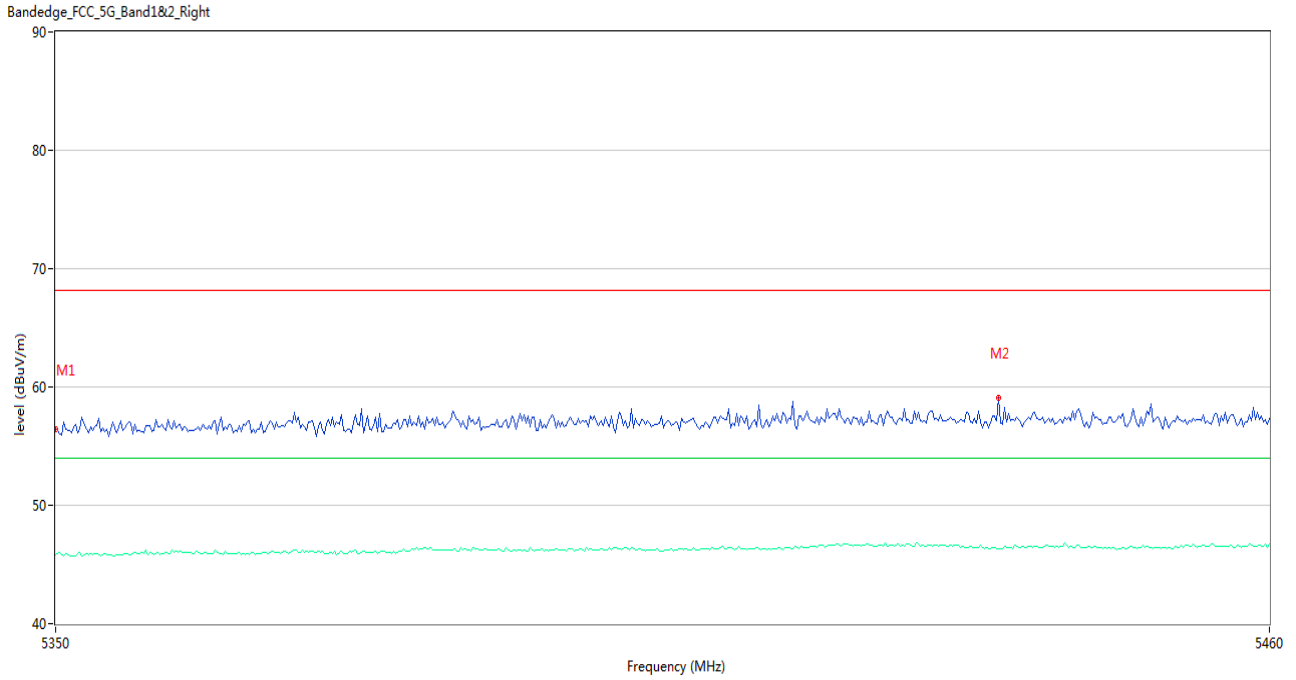
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.51	2.98	68.2	-11.69	Peak	192.00	150	Horizontal	Pass
1**	5350.000	46.12	2.98	54.0	-7.88	AV	192.00	150	Horizontal	Pass
2	5385.383	58.51	3.46	68.2	-9.69	Peak	321.00	150	Horizontal	Pass
2**	5385.383	46.33	3.46	54.0	-7.67	AV	321.00	150	Horizontal	Pass

U-NII-1 11ac20 CH36



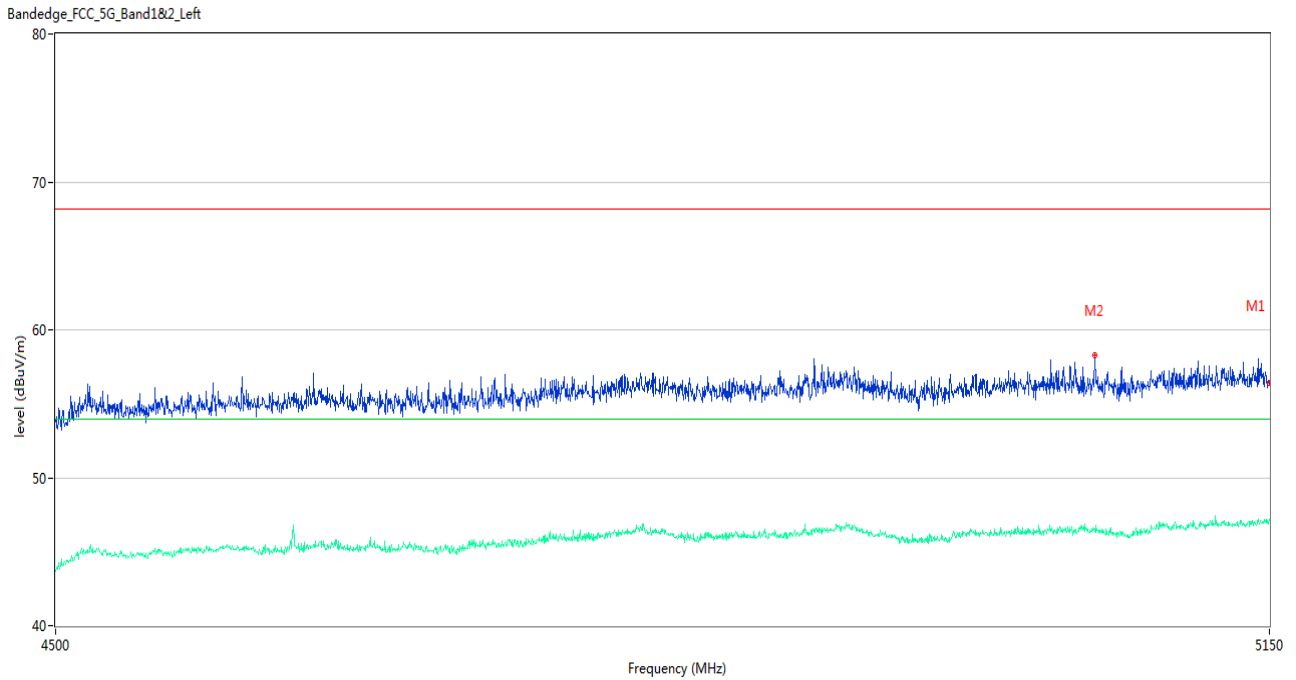
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	57.06	3.22	68.2	-11.14	Peak	332.00	150	Horizontal	Pass
1**	5150.000	47.09	3.22	54.0	-6.91	AV	332.00	150	Horizontal	Pass
2	5092.800	58.55	3.41	68.2	-9.65	Peak	273.00	150	Horizontal	Pass
2**	5092.800	46.70	3.41	54.0	-7.30	AV	273.00	150	Horizontal	Pass

U-NII-1 11ac20 CH48



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.44	2.98	68.2	-11.76	Peak	39.00	150	Horizontal	Pass
1**	5350.000	45.82	2.98	54.0	-8.18	AV	39.00	150	Horizontal	Pass
2	5435.250	59.05	3.39	68.2	-9.15	Peak	59.00	150	Horizontal	Pass
2**	5435.250	46.34	3.39	54.0	-7.66	AV	59.00	150	Horizontal	Pass

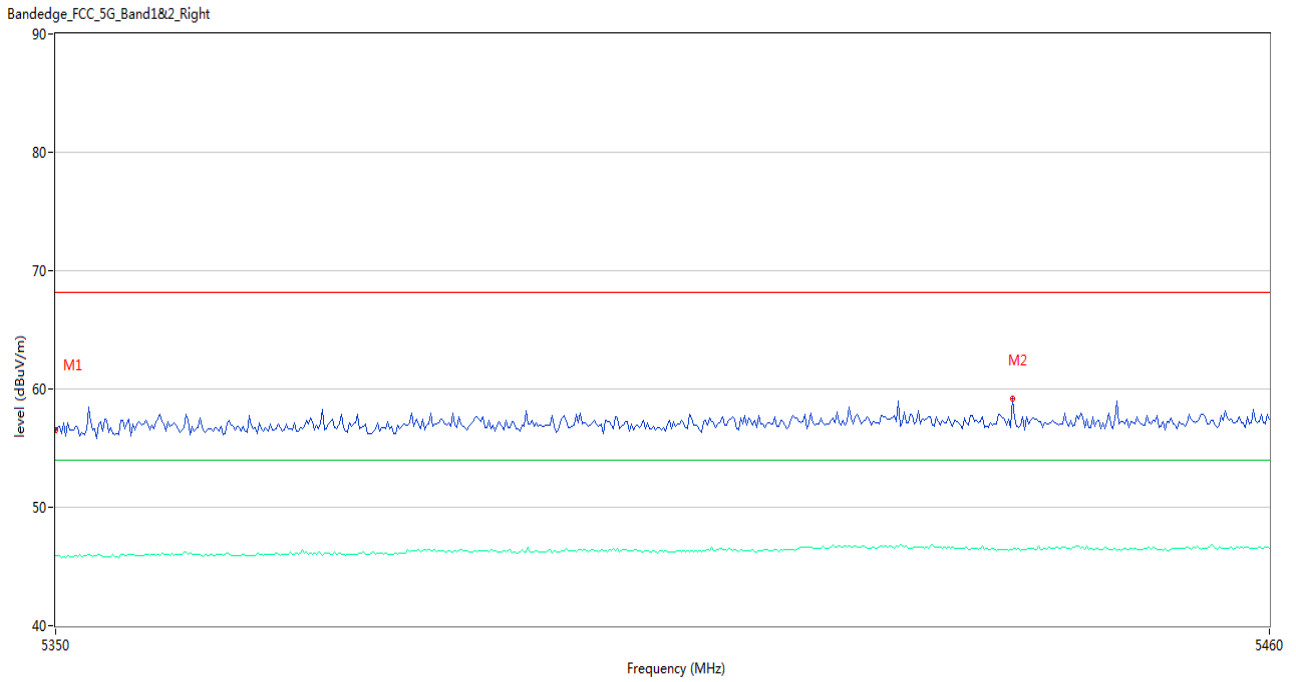
U-NII-1 11ac40 CH38



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.40	3.22	68.2	-11.80	Peak	336.00	150	Horizontal	Pass
1**	5150.000	47.15	3.22	54.0	-6.85	AV	336.00	150	Horizontal	Pass
2	5050.875	58.29	3.18	68.2	-9.91	Peak	250.00	150	Horizontal	Pass
2**	5050.875	46.52	3.18	54.0	-7.48	AV	250.00	150	Horizontal	Pass

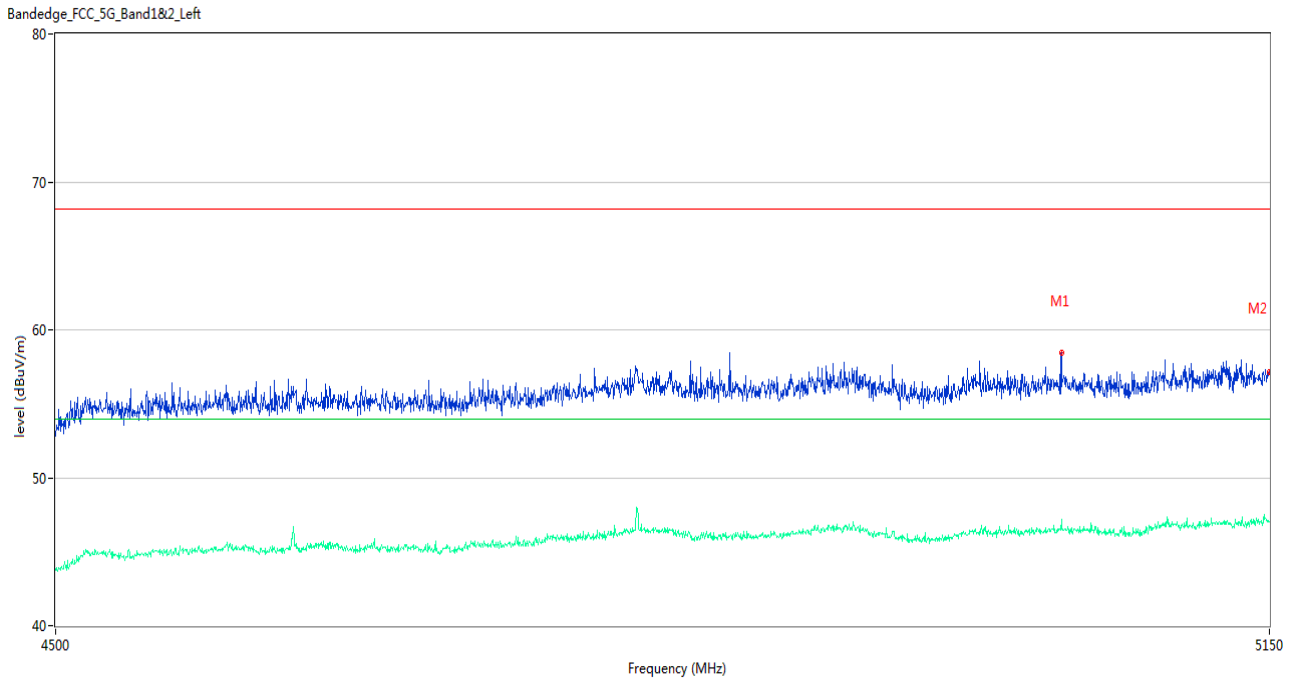


U-NII-1 11ac40 CH46



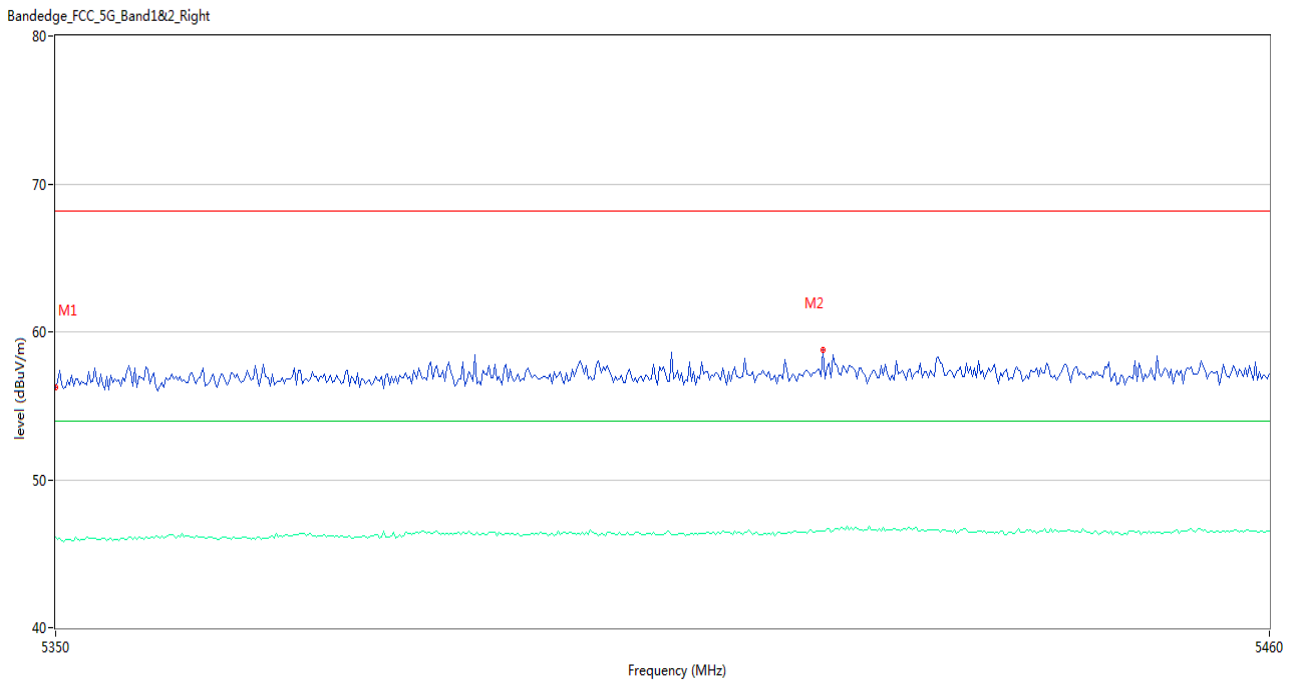
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.48	2.98	68.2	-11.72	Peak	340.00	150	Horizontal	Pass
1**	5350.000	45.91	2.98	54.0	-8.09	AV	340.00	150	Horizontal	Pass
2	5436.533	59.17	3.43	68.2	-9.03	Peak	154.00	150	Horizontal	Pass
2**	5436.533	46.45	3.43	54.0	-7.55	AV	154.00	150	Horizontal	Pass

U-NII-1 11ac80 CH42



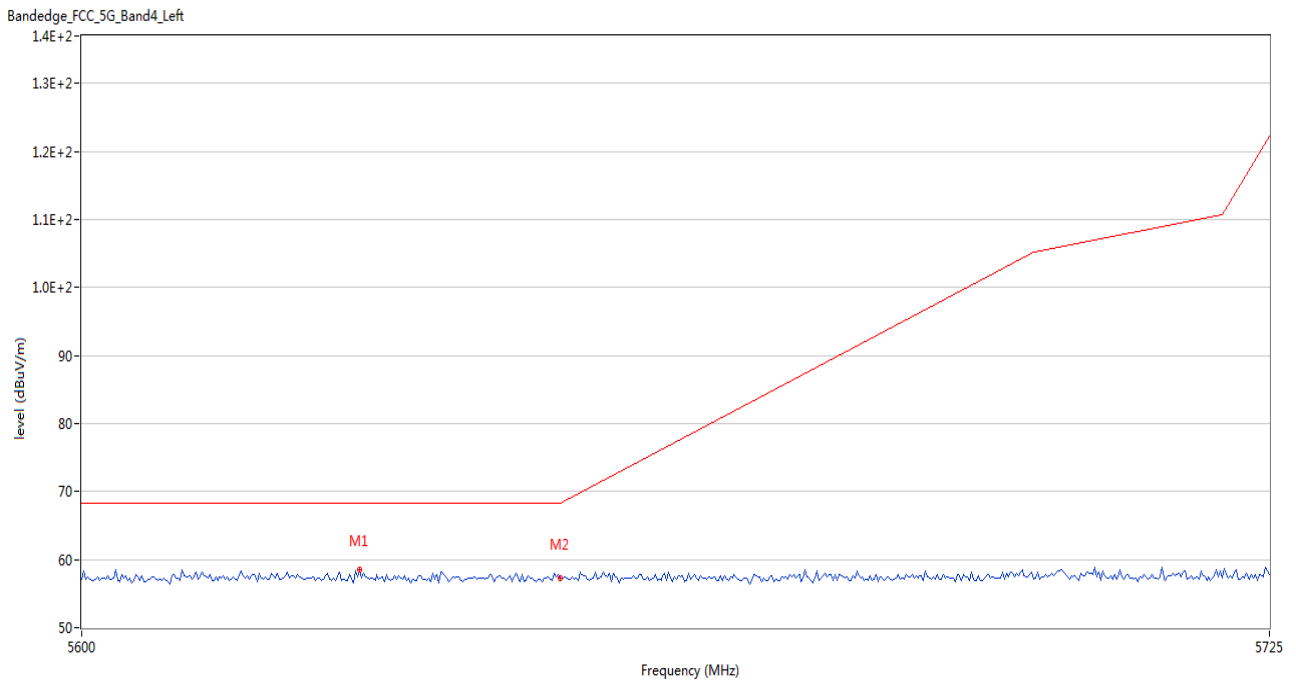
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5032.350	58.49	2.92	68.2	-9.71	Peak	121.00	150	Horizontal	Pass
1**	5032.350	47.20	2.92	54.0	-6.80	AV	121.00	150	Horizontal	Pass
2	5150.000	57.16	3.22	68.2	-11.04	Peak	58.00	150	Horizontal	Pass
2**	5150.000	47.02	3.22	54.0	-6.98	AV	58.00	150	Horizontal	Pass

U-NII-1 11ac80 CH42



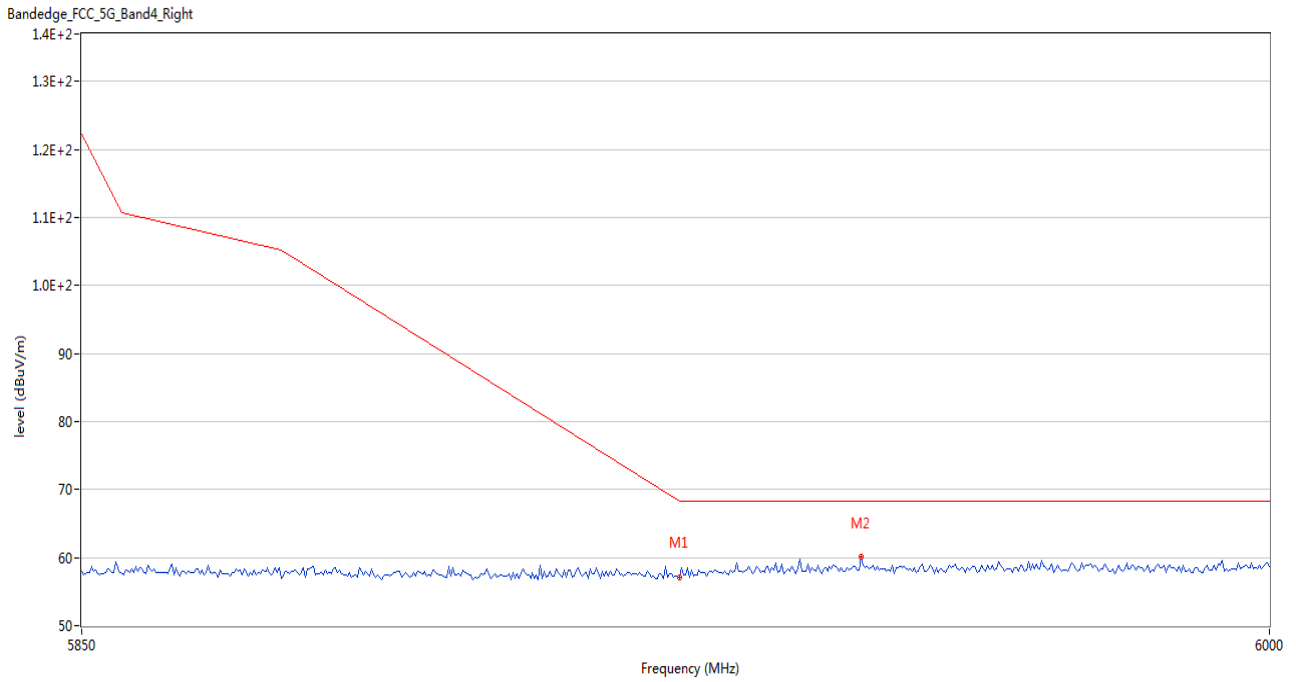
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.27	2.98	68.2	-11.93	Peak	348.00	150	Horizontal	Pass
1**	5350.000	46.09	2.98	54.0	-7.91	AV	348.00	150	Horizontal	Pass
2	5419.300	58.79	3.27	68.2	-9.41	Peak	100.00	150	Horizontal	Pass
2**	5419.300	46.57	3.27	54.0	-7.43	AV	100.00	150	Horizontal	Pass

U-NII-3 11a CH149



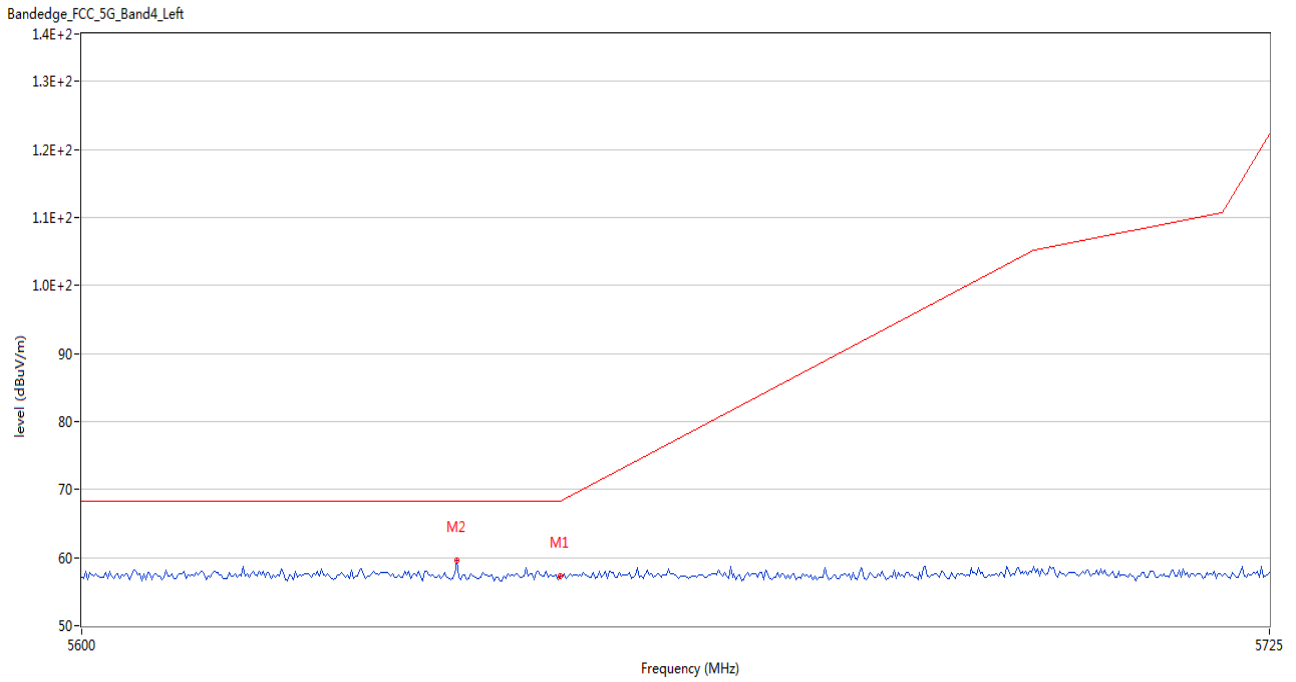
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5628.959	58.59	3.43	68.2	-9.61	Peak	214.00	150	Horizontal	Pass
2	5650.000	57.27	3.60	68.2	-10.93	Peak	289.00	150	Horizontal	Pass

U-NII-3 11a CH165



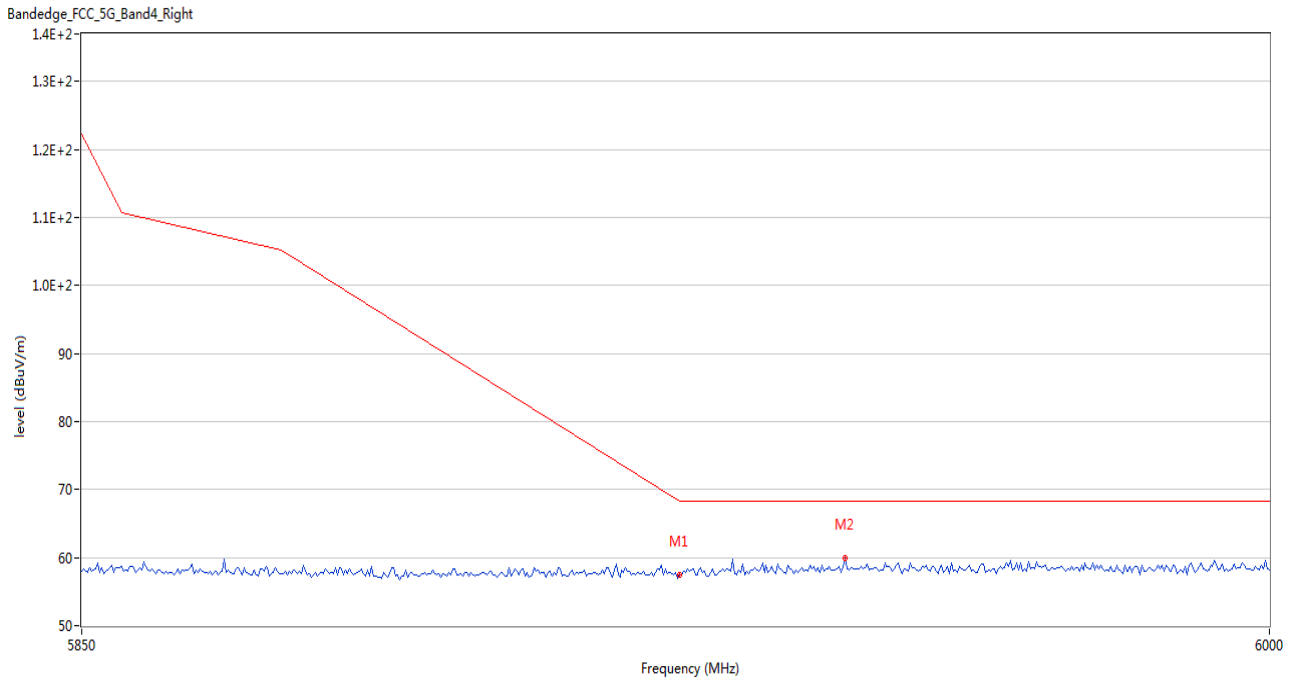
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.18	3.43	68.2	-11.02	Peak	215.00	150	Horizontal	Pass
2	5948.000	60.09	4.63	68.2	-8.11	Peak	0.00	150	Horizontal	Pass

U-NII-3 11n20 CH149



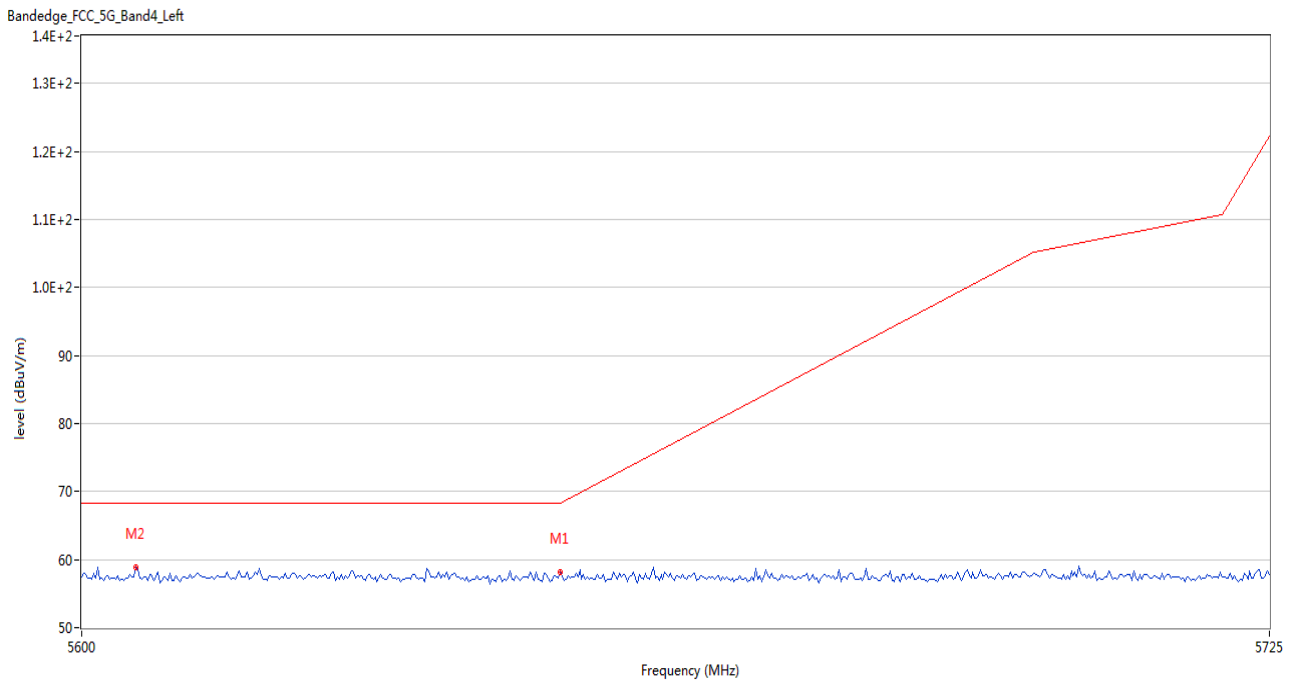
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.28	3.60	68.2	-10.92	Peak	305.00	150	Horizontal	Pass
2	5639.166	59.51	3.35	68.2	-8.69	Peak	359.00	150	Horizontal	Pass

U-NII-3 11n20 CH165



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.39	3.43	68.2	-10.81	Peak	97.00	150	Horizontal	Pass
2	5946.000	59.98	4.49	68.2	-8.22	Peak	61.00	150	Horizontal	Pass

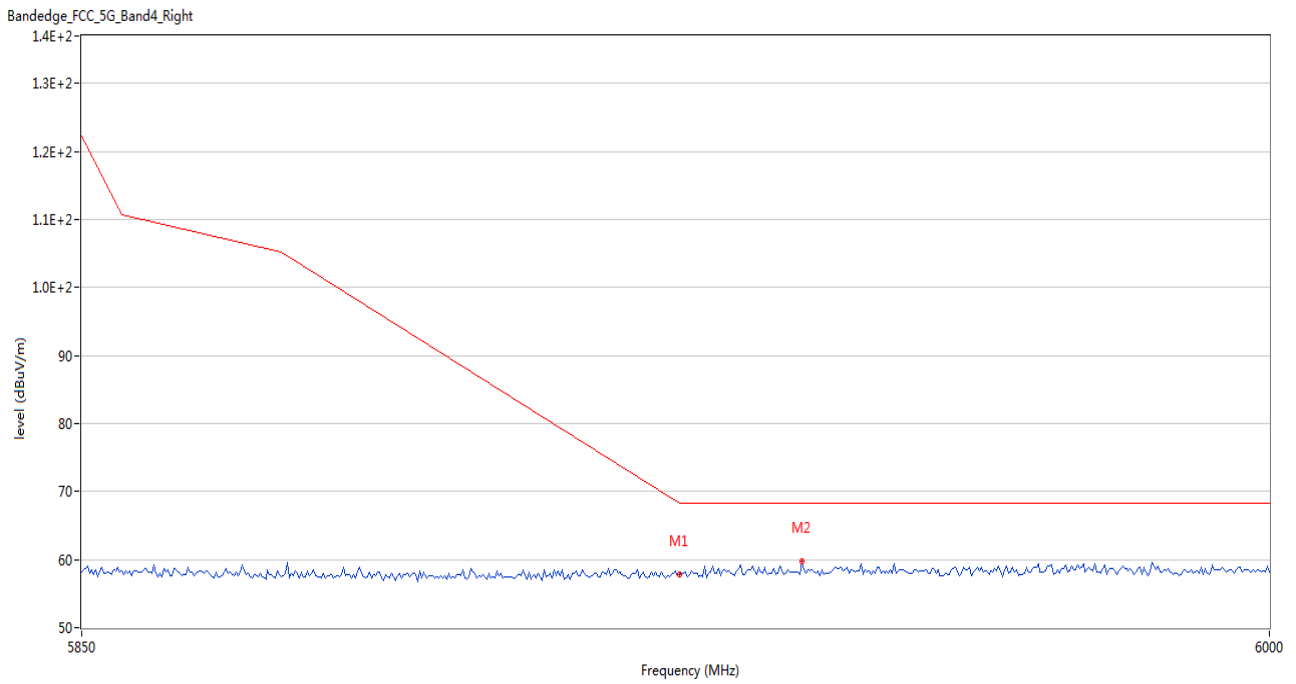
U-NII-3 11n40 CH151



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.14	3.60	68.2	-10.06	Peak	49.00	150	Horizontal	Pass
2	5605.625	58.79	3.43	68.2	-9.41	Peak	124.00	150	Horizontal	Pass

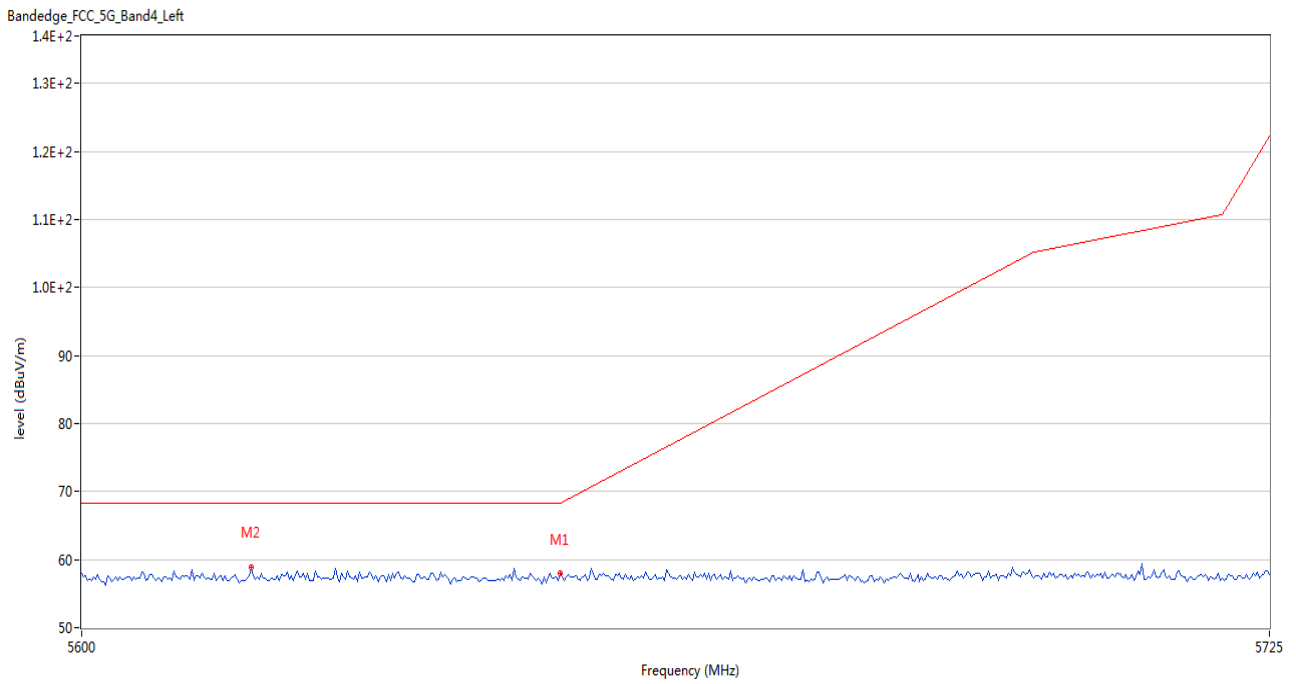


**U-NII-3 11n40 CH159**



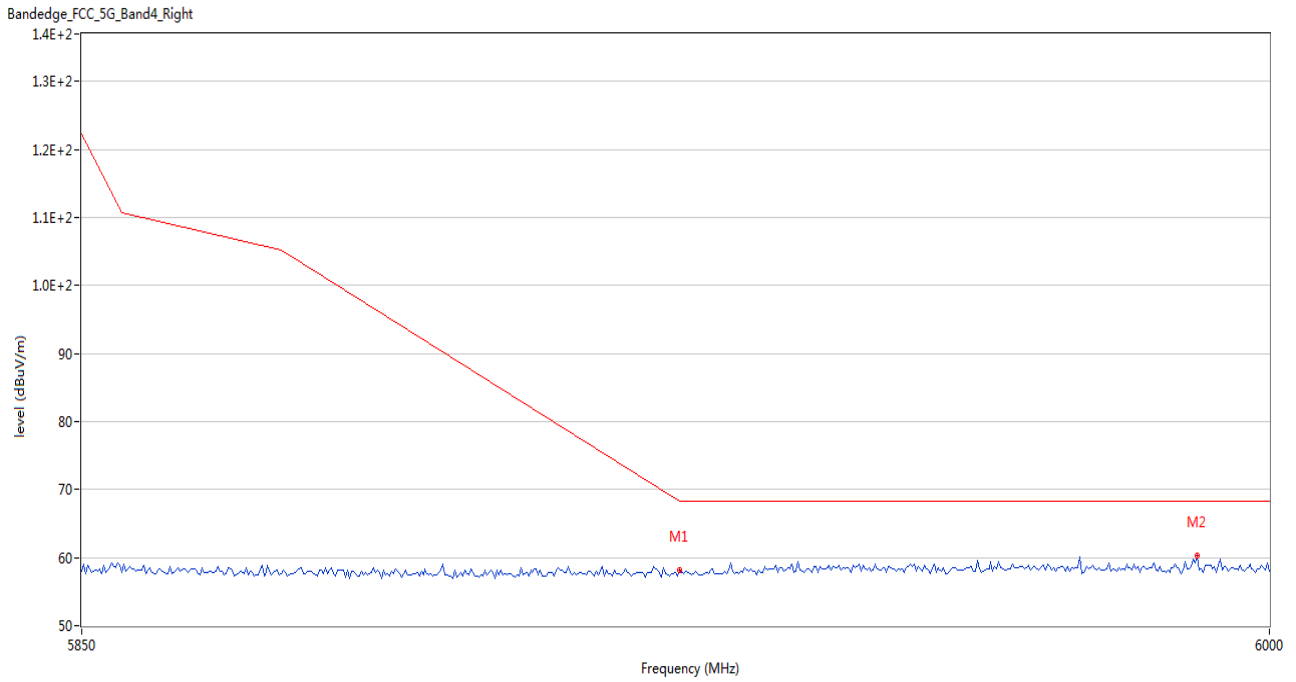
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.83	3.43	68.2	-10.37	Peak	228.00	150	Horizontal	Pass
2	5940.500	59.81	4.15	68.2	-8.39	Peak	9.00	150	Horizontal	Pass

U-NII-3 11ac20 CH149



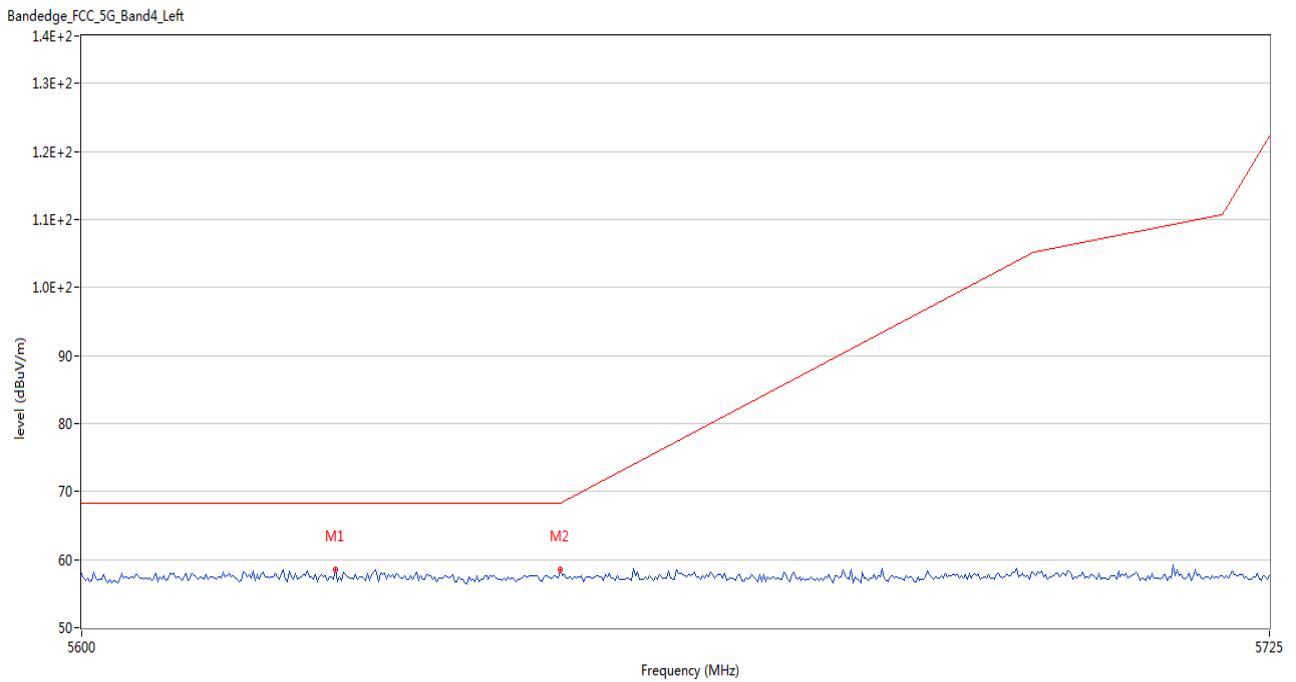
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.05	3.60	68.2	-10.15	Peak	266.00	150	Horizontal	Pass
2	5617.709	58.95	3.38	68.2	-9.25	Peak	219.00	150	Horizontal	Pass

U-NII-3 11ac20 CH165



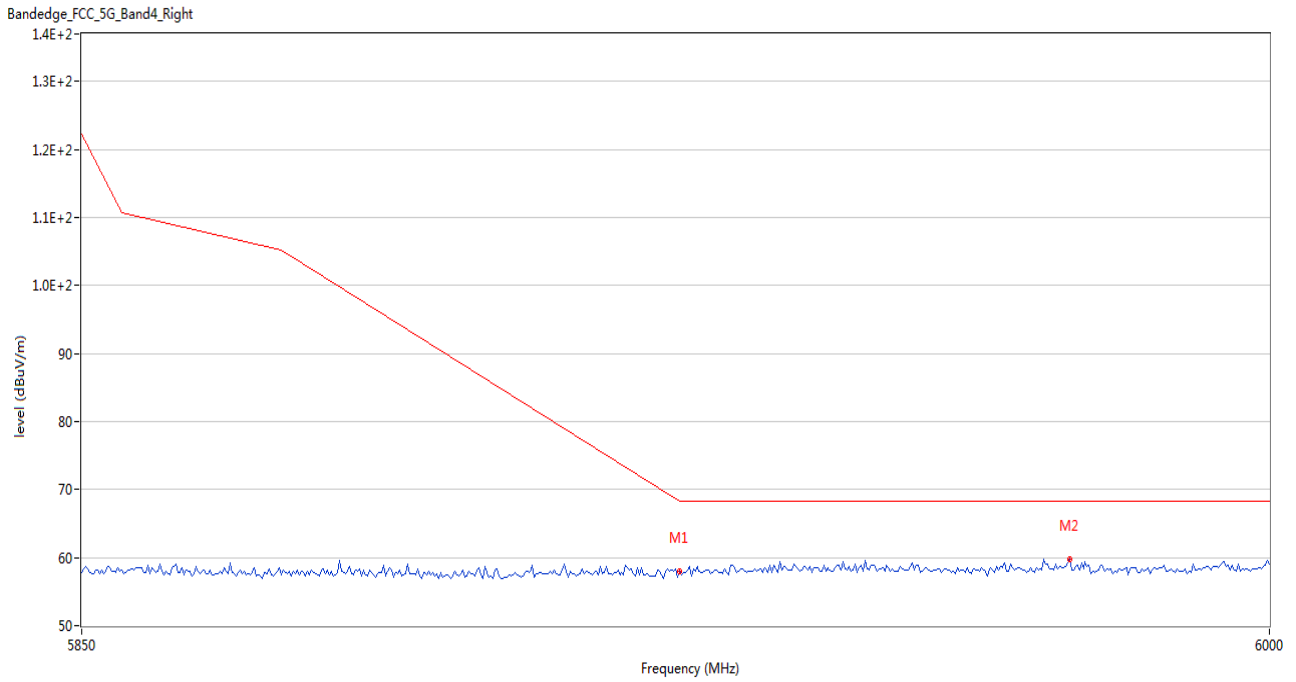
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.15	3.43	68.2	-10.05	Peak	63.00	150	Horizontal	Pass
2	5990.750	60.31	4.29	68.2	-7.89	Peak	131.00	150	Horizontal	Pass

U-NII-3 11ac40 CH151



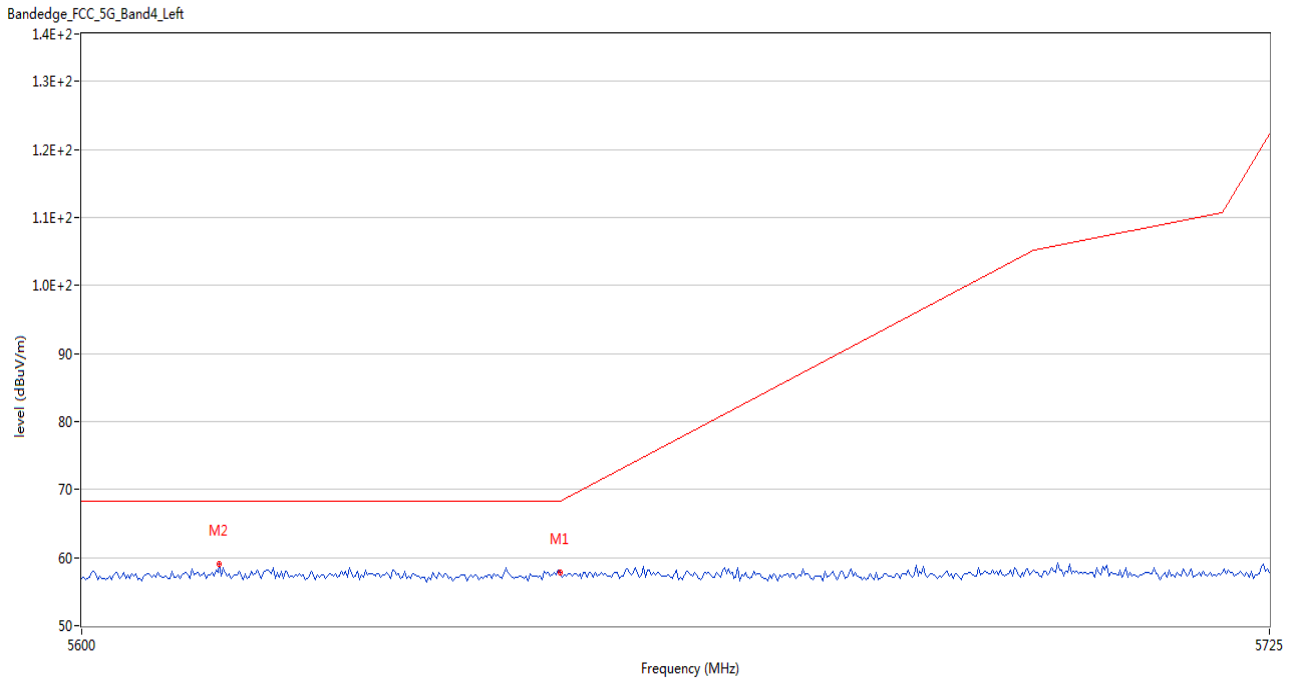
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5626.459	58.53	3.38	68.2	-9.67	Peak	250.00	150	Horizontal	Pass
2	5650.000	58.47	3.60	68.2	-9.73	Peak	65.00	150	Horizontal	Pass

U-NII-3 11ac40 CH159



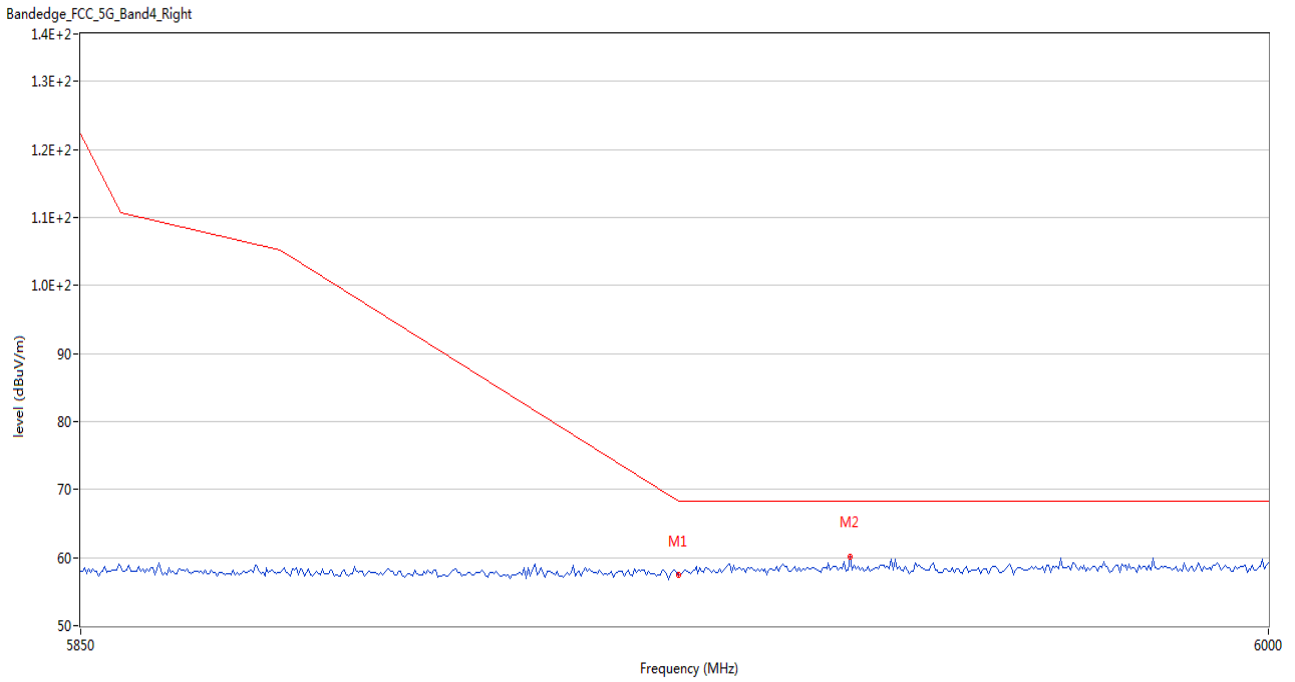
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.02	3.43	68.2	-10.18	Peak	307.00	150	Horizontal	Pass
2	5974.500	59.77	4.78	68.2	-8.43	Peak	185.00	150	Horizontal	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.83	3.60	68.2	-10.37	Peak	74.00	150	Horizontal	Pass
2	5614.375	59.10	3.48	68.2	-9.10	Peak	167.00	150	Horizontal	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.51	3.43	68.2	-10.69	Peak	211.00	150	Horizontal	Pass
2	5946.750	60.19	4.54	68.2	-8.01	Peak	360.00	150	Horizontal	Pass

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ21B0948-AR.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ21B0948-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ21B0948-AI.PDF”.



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--END OF REPORT--