

# TEST REPORT

**Applicant:** Xiaomi Communications Co., Ltd.  
**Address:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,  
Haidian District, Beijing, China, 100085  
**Equipment Type:** Mobile Phone  
**Model Name:** 23124RA7EO  
**Brand Name:** Redmi  
**FCC ID:** 2AFZZA7EO  
**Test Standard:** 47 CFR Part 15 Subpart E  
(refer to section 3.1)  
**Sample Arrival Date:** Oct. 16, 2023  
**Test Date:** Dec. 09, 2023 - Dec. 14, 2023  
**Date of Issue:** Dec. 20, 2023

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Yu Yingyuan

**Checked by:** Ye Hongji

**Approved by:** Liao Jianming

(Technical Director)



<b>Revision History</b>		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Dec. 20, 2023</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

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

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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

EUT Name	Mobile Phone
Model Name Under Test	23124RA7EO
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135100N7
Software Version	MIUI14
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S09, S14
IMEI Number	S09: IMEI1: 861678060050540
	S14: IMEI1: 861678060046266

## 2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA Band 1/5/8 4G Network FDD LTE Band 1/3/5/7/8/20/28 TDD LTE Band 38/40/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_40C Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, Galileo, BDS, SBAS, FM receiver, NFC
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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-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Product Type	Portable for FCC standard
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 27.48 mW U-NII-2A: 28.31 mW U-NII-2C: 29.72 mW U-NII-3: 29.65 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: -1.5 dBi U-NII-2A: 5250 MHz to 5350 MHz: -2.5 dBi U-NII-2C: 5470 MHz to 5725 MHz: -2.6 dBi U-NII-3: 5725 MHz to 5850 MHz: -2.2 dBi
About the Product	The equipment is Mobile Phon, intended for used with information

	technology equipment.
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## 2.5 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>58</b>	<b>5290</b>
<b>44</b>	<b>5220</b>	<b>54</b>	<b>5270</b>	<b>106</b>	<b>5530</b>
<b>48</b>	<b>5240</b>	<b>62</b>	<b>5310</b>	<b>122</b>	<b>5610</b>
<b>52</b>	<b>5260</b>	<b>102</b>	<b>5510</b>	<b>155</b>	<b>5775</b>
56	5280	110	5550		
<b>60</b>	<b>5300</b>	<b>118</b>	<b>5590</b>		
<b>64</b>	<b>5320</b>	126	5630		
<b>100</b>	<b>5500</b>	<b>134</b>	<b>5670</b>		
104	5520	<b>151</b>	<b>5755</b>		
108	5540	<b>159</b>	<b>5795</b>		
112	5560				
<b>116</b>	<b>5580</b>				
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
<b>140</b>	<b>5700</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-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
44	Mid	5220	60	Mid	5300
48	High	5240	64	High	5320

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
100	Low	5500	149	Low	5745
116	Mid	5580	157	Mid	5785
140	High	5700	165	High	5825

For 802.11n(HT40)/ac(VHT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	54	Low	5270
46	High	5230	62	High	5310

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
118	Mid	5590	159	High	5795
134	High	5670			

For 802.11ac(VHT80)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	58	Mid	5290

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
106	Low	5530	155	Mid	5775
122	High	5610	--	--	--



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-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	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

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

Note 2: 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	42% to 62%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.3°C to +26.3°C
	LT (Low Temperature)	0.0°C
	HT (High Temperature)	40.0°C
Working Voltage of the EUT	NV (Normal Voltage)	3.89 V
	LV (Low Voltage)	3.60 V
	HV (High Voltage)	4.25 V

### 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2023.05.16	2024.05.15
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2023.07.12	2024.07.11
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.12.28	2023.12.27
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2023.09.05	2024.09.04
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2023.06.19	2024.06.18
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.03	2025.02.02
Test Antenna-Horn	A-INFO	LB- 180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2024.09.03
Amplifier	COM-MV	ZT30- 1000M	18110850	2023.09.05	2024.09.04
Amplifier	COM-MV	LSCX_LNA 1-12G-01	180602	2023.09.05	2024.09.04
Amplifier	COM-MV	XKu_LNA7- 18G-01	180601	2023.09.05	2024.09.04
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2023.12.06	2024.12.05
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	00883	2022.04.01	2025.03.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
Shielded Enclosure	YiHeng Electronic	3.5m*3.1m*	112	2022.02.19	2025.02.18

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
	Co., Ltd	2.8m			

### 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	V22.930	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	0.8°C
Humidity	4%

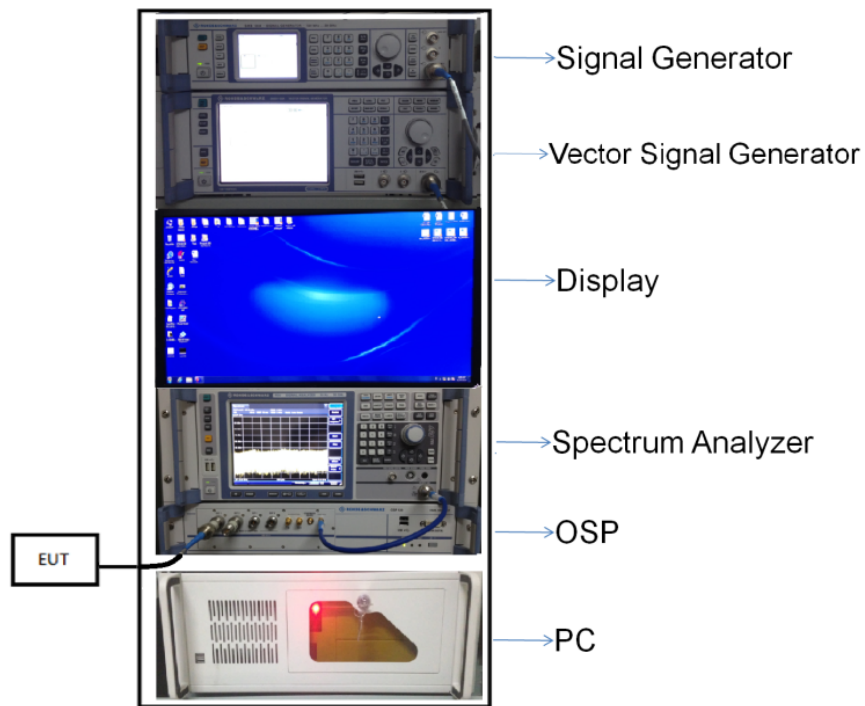
## 4.5 Description of Test Setup

### 4.5.1 For Antenna Port Test

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

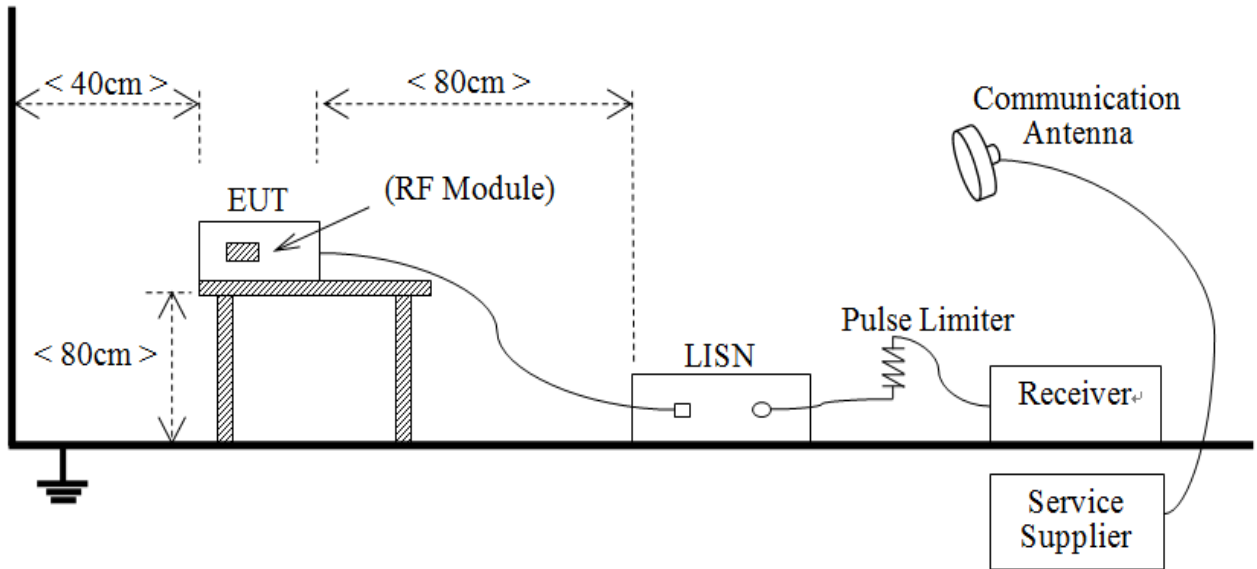
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



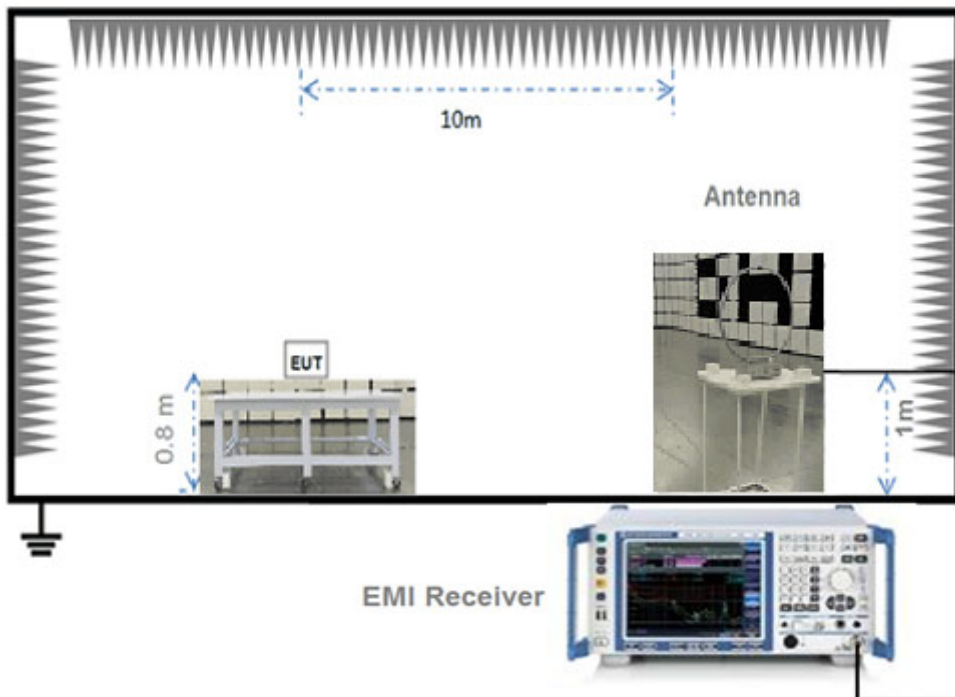
(Diagram 1)

### 4.5.2 For AC Power Supply Port Test



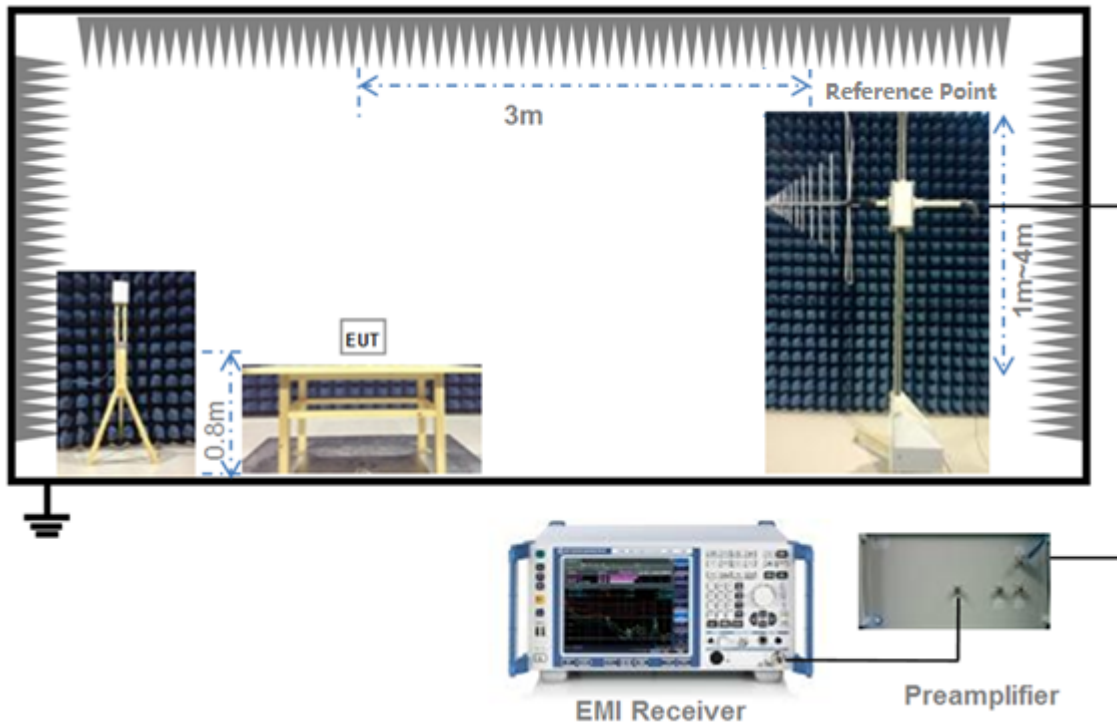
(Diagram 2)

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



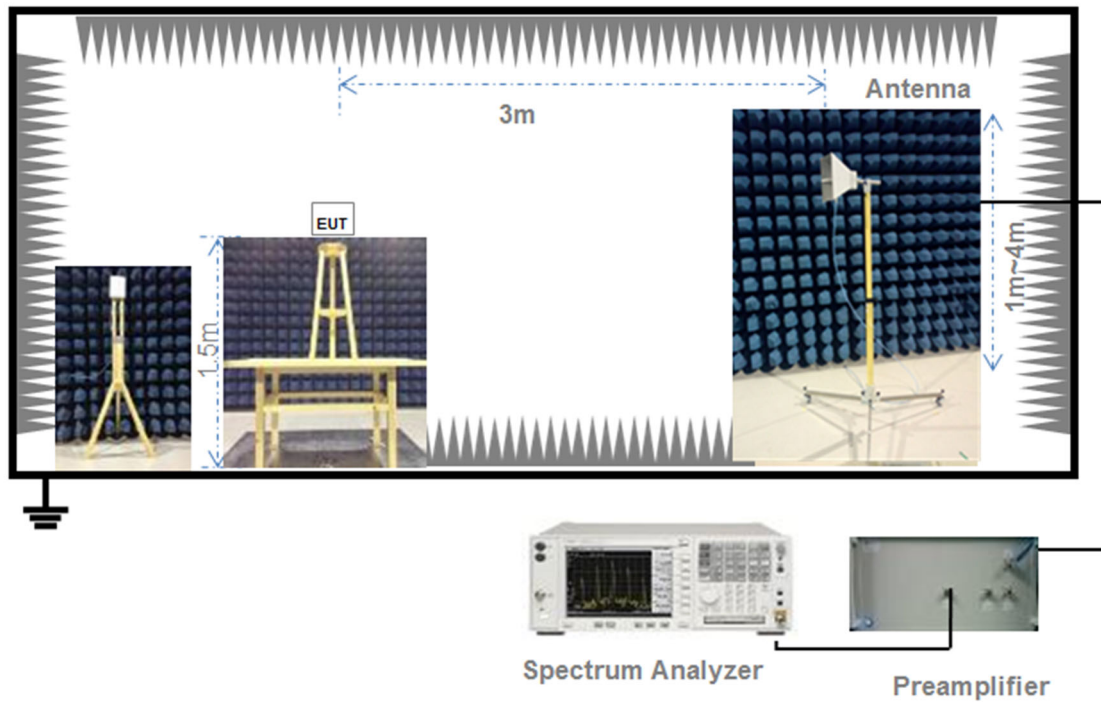
(Diagram 3)

#### 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 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).
- c) 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).
- d) 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.

- e) Compare the resultant electric field strength level to the applicable limit.
- f) 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 1: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.3890	1.4280	97.27%
11n (HT20)	1.3000	1.3370	97.23%
11n (HT40)	0.6443	0.6805	94.68%
11ac (VHT20)	1.3080	1.3450	97.25%
11ac (VHT40)	0.6517	0.6880	94.72%
11ac (VHT80)	0.3242	0.3607	89.88%

#### Test Data

##### Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.27	21.23	250	Pass
11a	CH44	13.09	20.37	250	Pass
11a	CH48	13.77	23.82	250	Pass
11n (HT20)	CH36	13.58	22.80	250	Pass
11n (HT20)	CH44	13.47	22.23	250	Pass
11n (HT20)	CH48	13.33	21.53	250	Pass
11n (HT40)	CH38	13.75	23.71	250	Pass
11n (HT40)	CH46	14.01	25.18	250	Pass
11ac (VHT20)	CH36	13.55	22.65	250	Pass
11ac (VHT20)	CH44	13.42	21.98	250	Pass
11ac (VHT20)	CH48	13.37	21.73	250	Pass
11ac (VHT40)	CH38	14.39	27.48	250	Pass
11ac (VHT40)	CH46	14.06	25.47	250	Pass
11ac (VHT80)	CH42	14.36	27.29	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	14.16	26.06	250	Pass
11a	CH60	14.23	26.49	250	Pass
11a	CH64	14.17	26.12	250	Pass
11n (HT20)	CH52	13.95	24.83	250	Pass
11n (HT20)	CH60	14.36	27.29	250	Pass
11n (HT20)	CH64	14.08	25.59	250	Pass
11n (HT40)	CH54	14.14	25.94	250	Pass
11n (HT40)	CH62	14.13	25.88	250	Pass
11ac (VHT20)	CH52	14.05	25.41	250	Pass
11ac (VHT20)	CH60	14.17	26.12	250	Pass
11ac (VHT20)	CH64	14.24	26.55	250	Pass
11ac (VHT40)	CH54	14.04	25.35	250	Pass
11ac (VHT40)	CH62	14.30	26.92	250	Pass
11ac (VHT80)	CH58	14.52	28.31	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	14.30	26.92	250	Pass
11a	CH116	13.97	24.95	250	Pass
11a	CH140	13.94	24.77	250	Pass
11n (HT20)	CH100	14.73	29.72	250	Pass
11n (HT20)	CH116	13.33	21.53	250	Pass
11n (HT20)	CH140	14.24	26.55	250	Pass
11n (HT40)	CH102	14.39	27.48	250	Pass
11n (HT40)	CH118	13.66	23.23	250	Pass
11n (HT40)	CH134	14.20	26.30	250	Pass
11ac (VHT20)	CH100	14.29	26.85	250	Pass
11ac (VHT20)	CH116	14.04	25.35	250	Pass
11ac (VHT20)	CH140	13.75	23.71	250	Pass
11ac (VHT40)	CH102	14.52	28.31	250	Pass
11ac (VHT40)	CH118	13.53	22.54	250	Pass
11ac (VHT40)	CH134	14.06	25.47	250	Pass
11ac (VHT80)	CH106	14.71	29.58	250	Pass
11ac (VHT80)	CH122	14.09	25.64	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.41	21.93	1000	Pass
11a	CH157	13.82	24.10	1000	Pass
11a	CH165	13.48	22.28	1000	Pass
11n (HT20)	CH149	13.70	23.44	1000	Pass
11n (HT20)	CH157	13.53	22.54	1000	Pass
11n (HT20)	CH165	13.65	23.17	1000	Pass
11n (HT40)	CH151	14.34	27.16	1000	Pass
11n (HT40)	CH159	14.57	28.64	1000	Pass
11ac (VHT20)	CH149	14.12	25.82	1000	Pass
11ac (VHT20)	CH157	13.96	24.89	1000	Pass
11ac (VHT20)	CH165	13.75	23.71	1000	Pass
11ac (VHT40)	CH151	14.51	28.25	1000	Pass
11ac (VHT40)	CH159	14.72	29.65	1000	Pass
11ac (VHT80)	CH155	14.03	25.29	1000	Pass

## A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ23A0971-604 Data Part 1.pdf".

### Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	22.90	16.59
11a	CH44	22.94	16.60
11a	CH48	22.89	16.56
11n (HT20)	CH36	23.11	17.77
11n (HT20)	CH44	23.46	17.76
11n (HT20)	CH48	23.16	17.74
11n (HT40)	CH38	41.66	36.24
11n (HT40)	CH46	41.37	36.25
11ac (VHT20)	CH36	23.13	17.75
11ac (VHT20)	CH44	23.44	17.75
11ac (VHT20)	CH48	23.43	17.74
11ac (VHT40)	CH38	41.35	36.24
11ac (VHT40)	CH46	41.57	36.23
11ac (VHT80)	CH42	84.61	75.86

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	22.64	16.57
11a	CH60	22.68	16.57
11a	CH64	22.62	16.56
11n (HT20)	CH52	23.38	17.75
11n (HT20)	CH60	23.25	17.74
11n (HT20)	CH64	23.17	17.74
11n (HT40)	CH54	41.76	36.25
11n (HT40)	CH62	41.47	36.24
11ac (VHT20)	CH52	23.26	17.74
11ac (VHT20)	CH60	23.37	17.74
11ac (VHT20)	CH64	23.03	17.74
11ac (VHT40)	CH54	41.75	36.25
11ac (VHT40)	CH62	41.49	36.26
11ac (VHT80)	CH58	84.51	75.88

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	22.69	16.60
11a	CH116	22.68	16.60
11a	CH140	23.27	16.63
11n (HT20)	CH100	23.38	17.76
11n (HT20)	CH116	23.21	17.76
11n (HT20)	CH140	23.79	17.78
11n (HT40)	CH102	41.44	36.26
11n (HT40)	CH118	41.66	36.27
11n (HT40)	CH134	41.66	36.26
11ac (VHT20)	CH100	23.10	17.75
11ac (VHT20)	CH116	23.15	17.75
11ac (VHT20)	CH140	23.59	17.78
11ac (VHT40)	CH102	41.26	36.22
11ac (VHT40)	CH118	41.45	36.25
11ac (VHT40)	CH134	41.89	36.28
11ac (VHT80)	CH106	84.05	75.92
11ac (VHT80)	CH122	84.68	76.02

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	22.75	16.62
11a	CH157	22.70	16.60
11a	CH165	22.70	16.63
11n (HT20)	CH149	23.81	17.79
11n (HT20)	CH157	23.49	17.78
11n (HT20)	CH165	23.23	17.77
11n (HT40)	CH151	41.30	36.26
11n (HT40)	CH159	41.47	36.27
11ac (VHT20)	CH149	23.47	17.77
11ac (VHT20)	CH157	23.57	17.76
11ac (VHT20)	CH165	23.32	17.78
11ac (VHT40)	CH151	41.20	36.27
11ac (VHT40)	CH159	41.23	36.26
11ac (VHT80)	CH155	84.29	75.90



### A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ23A0971-604 Data Part 2.pdf".

#### Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.25	500.00	Pass
11a	CH157	15.45	500.00	Pass
11a	CH165	15.25	500.00	Pass
11n (HT20)	CH149	15.25	500.00	Pass
11n (HT20)	CH157	15.25	500.00	Pass
11n (HT20)	CH165	15.25	500.00	Pass
11n (HT40)	CH151	35.55	500.00	Pass
11n (HT40)	CH159	36.00	500.00	Pass
11ac (VHT20)	CH149	15.25	500.00	Pass
11ac (VHT20)	CH157	15.40	500.00	Pass
11ac (VHT20)	CH165	15.25	500.00	Pass
11ac (VHT40)	CH151	36.10	500.00	Pass
11ac (VHT40)	CH159	35.75	500.00	Pass
11ac (VHT80)	CH155	75.20	500.00	Pass

## A.4 Power Spectral Density

Note <sup>1</sup>: Test plots please refer to the document "Annex No.: BL-SZ23A0971-604 Data Part 3.pdf".

### Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.00	11.00	Pass
11a	CH44	1.94	11.00	Pass
11a	CH48	3.04	11.00	Pass
11n (HT20)	CH36	2.08	11.00	Pass
11n (HT20)	CH44	2.03	11.00	Pass
11n (HT20)	CH48	2.09	11.00	Pass
11n (HT40)	CH38	-0.74	11.00	Pass
11n (HT40)	CH46	-0.28	11.00	Pass
11ac (VHT20)	CH36	1.85	11.00	Pass
11ac (VHT20)	CH44	1.85	11.00	Pass
11ac (VHT20)	CH48	1.94	11.00	Pass
11ac (VHT40)	CH38	0.11	11.00	Pass
11ac (VHT40)	CH46	-0.36	11.00	Pass
11ac (VHT80)	CH42	-3.46	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	3.33	11.00	Pass
11a	CH60	3.22	11.00	Pass
11a	CH64	3.16	11.00	Pass
11n (HT20)	CH52	2.66	11.00	Pass
11n (HT20)	CH60	3.24	11.00	Pass
11n (HT20)	CH64	2.79	11.00	Pass
11n (HT40)	CH54	0.08	11.00	Pass
11n (HT40)	CH62	0.03	11.00	Pass
11ac (VHT20)	CH52	2.89	11.00	Pass
11ac (VHT20)	CH60	2.79	11.00	Pass
11ac (VHT20)	CH64	3.32	11.00	Pass
11ac (VHT40)	CH54	0.10	11.00	Pass
11ac (VHT40)	CH62	-0.03	11.00	Pass
11ac (VHT80)	CH58	-2.82	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	3.70	11.00	Pass
11a	CH116	3.20	11.00	Pass
11a	CH140	2.74	11.00	Pass
11n (HT20)	CH100	3.24	11.00	Pass
11n (HT20)	CH116	2.52	11.00	Pass
11n (HT20)	CH140	2.73	11.00	Pass
11n (HT40)	CH102	0.35	11.00	Pass
11n (HT40)	CH118	-0.34	11.00	Pass
11n (HT40)	CH134	-0.44	11.00	Pass
11ac (VHT20)	CH100	3.16	11.00	Pass
11ac (VHT20)	CH116	2.76	11.00	Pass
11ac (VHT20)	CH140	2.68	11.00	Pass
11ac (VHT40)	CH102	0.35	11.00	Pass
11ac (VHT40)	CH118	-0.30	11.00	Pass
11ac (VHT40)	CH134	-0.56	11.00	Pass
11ac (VHT80)	CH106	-2.75	11.00	Pass
11ac (VHT80)	CH122	-3.17	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-0.74	30.00	Pass
11a	CH157	0.08	30.00	Pass
11a	CH165	-0.10	30.00	Pass
11n (HT20)	CH149	-0.75	30.00	Pass
11n (HT20)	CH157	-0.80	30.00	Pass
11n (HT20)	CH165	-0.50	30.00	Pass
11n (HT40)	CH151	-2.89	30.00	Pass
11n (HT40)	CH159	-2.33	30.00	Pass
11ac (VHT20)	CH149	-0.09	30.00	Pass
11ac (VHT20)	CH157	0.27	30.00	Pass
11ac (VHT20)	CH165	0.06	30.00	Pass
11ac (VHT40)	CH151	-2.37	30.00	Pass
11ac (VHT40)	CH159	-1.91	30.00	Pass
11ac (VHT80)	CH155	-5.76	30.00	Pass

## A.5 Conducted Emissions

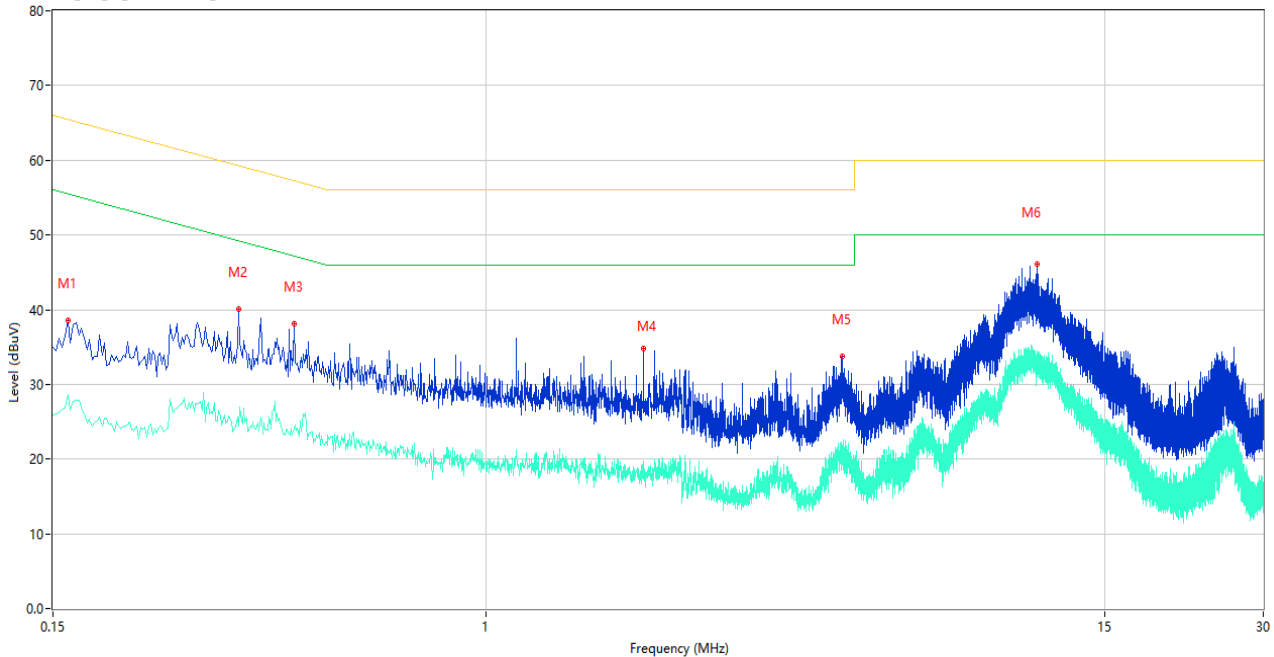
Note<sup>1</sup>: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

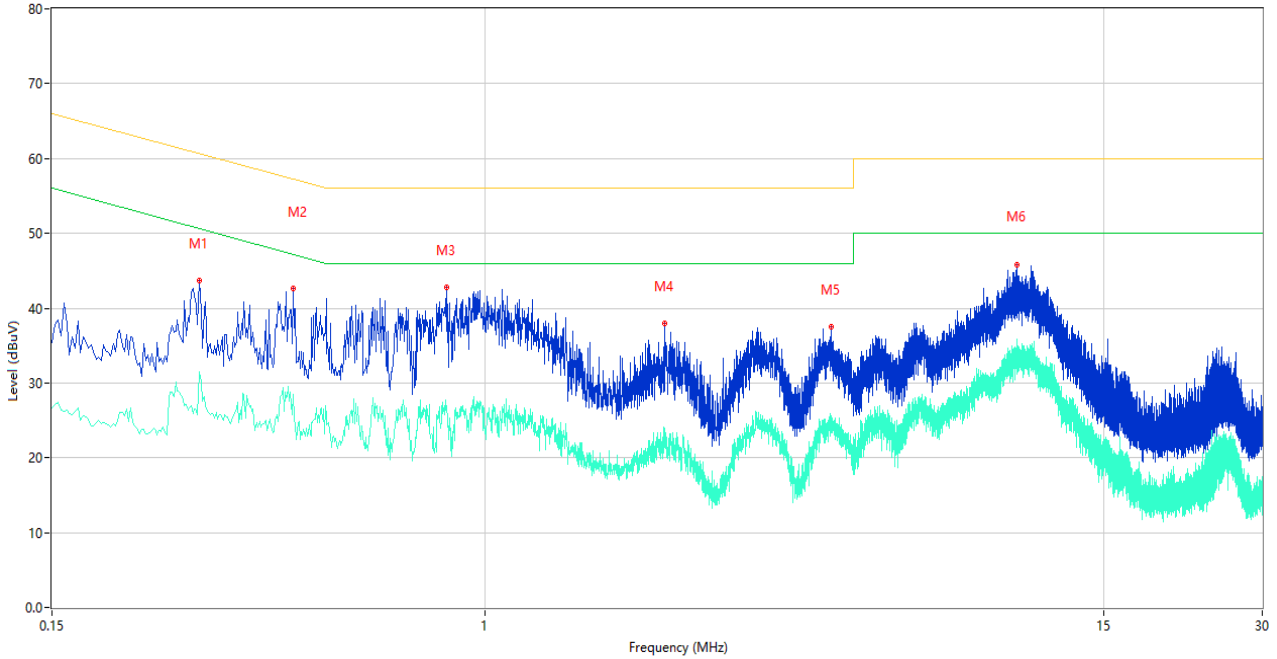
CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	38.60	9.46	65.46	26.86	Peak	L	Pass
1**	0.160	28.68	9.46	55.46	26.78	AV	L	Pass
2	0.338	40.08	9.36	59.25	19.17	Peak	L	Pass
2**	0.338	24.45	9.36	49.25	24.80	AV	L	Pass
3	0.432	38.09	9.96	57.21	19.12	Peak	L	Pass
3**	0.432	23.98	9.96	47.21	23.23	AV	L	Pass
4	1.988	34.78	9.47	56.00	21.22	Peak	L	Pass
4**	1.988	17.53	9.47	46.00	28.47	AV	L	Pass
5	4.744	33.78	9.51	56.00	22.22	Peak	L	Pass
5**	4.744	19.44	9.51	46.00	26.56	AV	L	Pass
6	11.142	46.05	8.38	60.00	13.95	Peak	L	Pass
6**	11.142	33.72	8.38	50.00	16.28	AV	L	Pass

PHASE N

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



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.286	43.69	9.43	60.64	16.95	Peak	N	Pass
1**	0.286	31.45	9.43	50.64	19.19	AV	N	Pass
2	0.432	42.58	9.96	57.21	14.63	Peak	N	Pass
2**	0.432	28.45	9.96	47.21	18.76	AV	N	Pass
3	0.846	42.75	9.90	56.00	13.25	Peak	N	Pass
3**	0.846	26.35	9.90	46.00	19.65	AV	N	Pass
4	2.194	38.00	9.73	56.00	18.00	Peak	N	Pass
4**	2.194	24.02	9.73	46.00	21.98	AV	N	Pass
5	4.538	37.54	9.41	56.00	18.46	Peak	N	Pass
5**	4.538	23.60	9.41	46.00	22.40	AV	N	Pass
6	10.260	45.87	8.83	60.00	14.13	Peak	N	Pass
6**	10.260	31.17	8.83	50.00	18.83	AV	N	Pass

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

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.

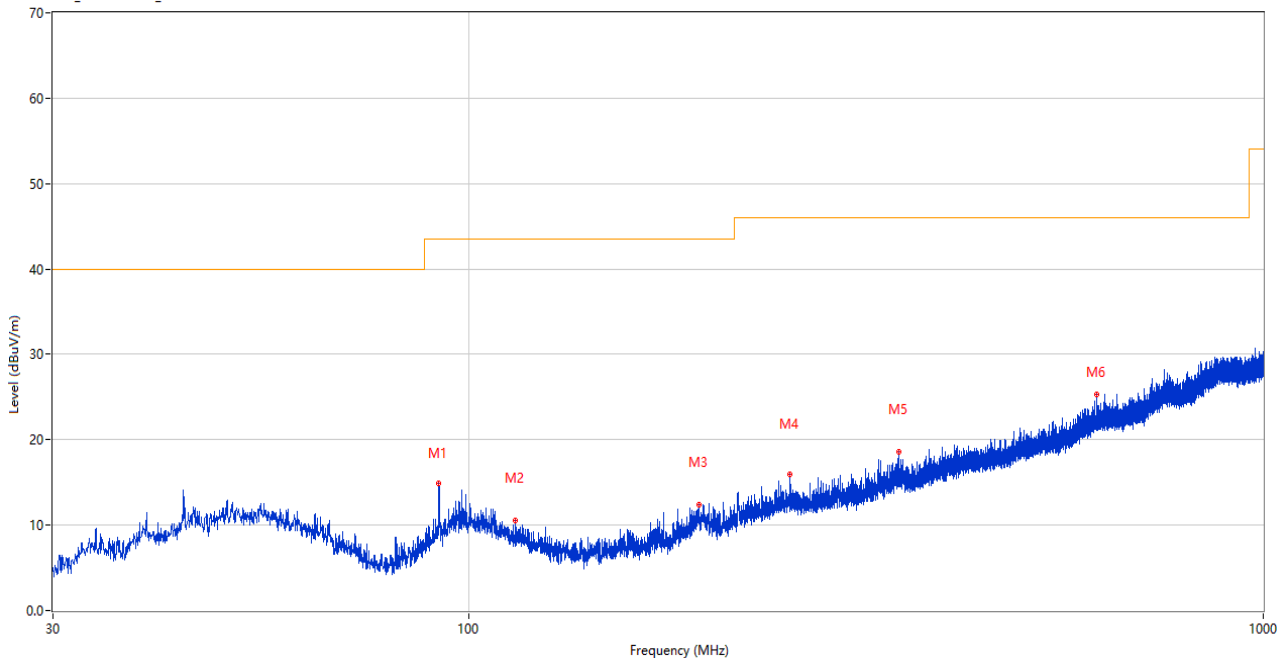
Note<sup>3</sup>: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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.

### Test Data and Plots

#### 30 MHz to 1 GHz, ANT H

RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz

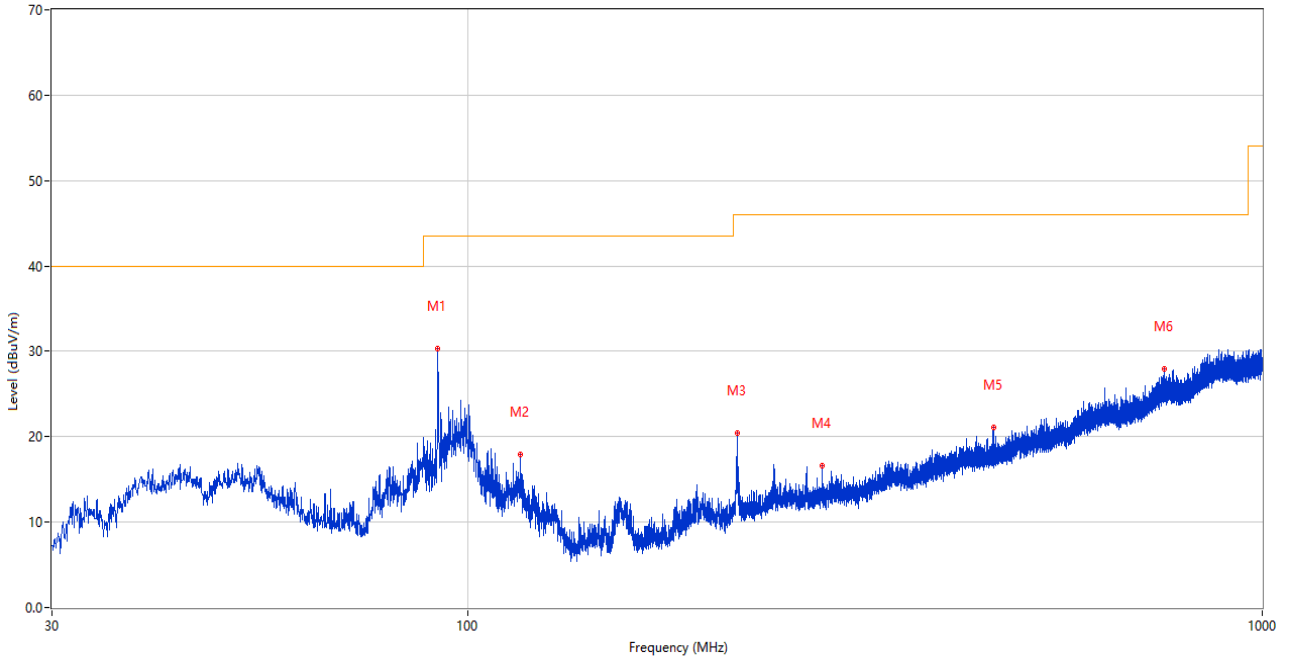


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	91.789	14.91	-28.28	43.5	28.59	Peak	191.00	200	Horizontal	Pass
2	114.535	10.57	-28.21	43.5	32.93	Peak	243.00	100	Horizontal	Pass
3	194.803	12.43	-26.05	43.5	31.07	Peak	95.00	100	Horizontal	Pass
4	253.634	15.92	-24.35	46.0	30.08	Peak	29.00	200	Horizontal	Pass
5	347.772	18.60	-21.78	46.0	27.40	Peak	91.00	100	Horizontal	Pass
6	616.462	25.36	-15.11	46.0	20.64	Peak	185.00	100	Horizontal	Pass



30 MHz to 1 GHz, ANT V

RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	91.741	30.27	-28.30	43.5	13.23	Peak	62.00	100	Vertical	Pass
2	116.476	17.99	-28.63	43.5	25.51	Peak	210.00	100	Vertical	Pass
3	218.665	20.49	-26.03	46.0	25.51	Peak	24.00	100	Vertical	Pass
4	279.435	16.59	-24.08	46.0	29.41	Peak	20.00	100	Vertical	Pass
5	458.691	21.11	-19.69	46.0	24.89	Peak	130.00	200	Vertical	Pass
6	752.262	27.95	-11.97	46.0	18.05	Peak	220.00	200	Vertical	Pass

Note 1: The marked "N/A" spikes near 5150MHz-5850MHz MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious from 18GHz to 40GHz 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	1487.200	40.57	-19.58	74.0	33.43	Peak	240.00	100	Horizontal	Pass
1**	1487.200	28.42	-19.58	54.0	25.58	AV	240.00	100	Horizontal	Pass
2	2876.500	43.78	-12.38	74.0	30.22	Peak	145.00	300	Horizontal	Pass
2**	2876.500	33.58	-12.38	54.0	20.42	AV	145.00	300	Horizontal	Pass
3	4353.750	46.91	-6.60	74.0	27.09	Peak	188.00	150	Horizontal	Pass
3**	4353.750	38.50	-6.60	54.0	15.50	AV	188.00	150	Horizontal	Pass
4	5181.250	101.76	-4.67	--	--	Peak	162.00	200	Horizontal	N/A
4**	5181.250	94.84	-4.67	--	--	AV	162.00	200	Horizontal	N/A
5	7538.500	54.40	-0.23	74.0	19.60	Peak	335.00	100	Horizontal	Pass
5**	7538.500	45.12	-0.23	54.0	8.88	AV	335.00	100	Horizontal	Pass
6	12363.825	53.22	0.62	74.0	20.78	Peak	50.00	400	Horizontal	Pass
6**	12363.825	43.51	0.62	54.0	10.49	AV	50.00	400	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	1464.900	42.41	-19.79	74.0	31.59	Peak	269.00	100	Vertical	Pass
1**	1464.900	28.79	-19.79	54.0	25.21	AV	269.00	100	Vertical	Pass
2	2726.200	44.34	-11.64	74.0	29.66	Peak	144.00	400	Vertical	Pass
2**	2726.200	34.78	-11.64	54.0	19.22	AV	144.00	400	Vertical	Pass
3	4322.750	47.27	-5.92	74.0	26.73	Peak	111.00	200	Vertical	Pass
3**	4322.750	39.53	-5.92	54.0	14.47	AV	111.00	200	Vertical	Pass
4	5178.250	92.96	-4.84	--	--	Peak	261.00	100	Vertical	N/A
4**	5178.250	86.14	-4.84	--	--	AV	261.00	100	Vertical	N/A
5	7541.500	54.63	-0.23	74.0	19.37	Peak	277.00	100	Vertical	Pass
5**	7541.500	44.92	-0.23	54.0	9.08	AV	277.00	100	Vertical	Pass
6	12369.050	52.52	0.57	74.0	21.48	Peak	72.00	400	Vertical	Pass
6**	12369.050	42.88	0.57	54.0	11.12	AV	72.00	400	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	1498.900	40.88	-19.51	74.0	33.12	Peak	227.00	200	Horizontal	Pass
1**	1498.900	28.67	-19.51	54.0	25.33	AV	227.00	200	Horizontal	Pass
2	2860.800	43.60	-12.38	74.0	30.40	Peak	52.00	100	Horizontal	Pass
2**	2860.800	33.99	-12.38	54.0	20.01	AV	52.00	100	Horizontal	Pass
3	4342.500	48.45	-6.28	74.0	25.55	Peak	262.00	150	Horizontal	Pass
3**	4342.500	38.62	-6.28	54.0	15.38	AV	262.00	150	Horizontal	Pass
4	5218.750	102.23	-4.79	--	--	Peak	172.00	200	Horizontal	N/A
4**	5218.750	94.30	-4.79	--	--	AV	172.00	200	Horizontal	N/A
5	7533.000	55.05	-0.49	74.0	18.95	Peak	206.00	150	Horizontal	Pass
5**	7533.000	45.32	-0.49	54.0	8.68	AV	206.00	150	Horizontal	Pass
6	12574.250	52.72	1.39	74.0	21.28	Peak	160.00	300	Horizontal	Pass
6**	12574.250	43.77	1.39	54.0	10.23	AV	160.00	300	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	1464.900	39.53	-19.79	74.0	34.47	Peak	295.00	200	Vertical	Pass
1**	1464.900	28.52	-19.79	54.0	25.48	AV	295.00	200	Vertical	Pass
2	2739.400	43.73	-12.22	74.0	30.27	Peak	270.00	400	Vertical	Pass
2**	2739.400	33.84	-12.22	54.0	20.16	AV	270.00	400	Vertical	Pass
3	4341.750	47.30	-6.31	74.0	26.70	Peak	104.00	150	Vertical	Pass
3**	4341.750	38.08	-6.31	54.0	15.92	AV	104.00	150	Vertical	Pass
4	5221.000	94.14	-4.79	--	--	Peak	261.00	100	Vertical	N/A
4**	5221.000	86.09	-4.79	--	--	AV	261.00	100	Vertical	N/A
5	7500.750	54.70	-0.78	74.0	19.30	Peak	277.00	100	Vertical	Pass
5**	7500.750	46.07	-0.78	54.0	7.93	AV	277.00	100	Vertical	Pass
6	12607.737	52.96	1.08	74.0	21.04	Peak	308.00	200	Vertical	Pass
6**	12607.737	44.14	1.08	54.0	9.86	AV	308.00	200	Vertical	Pass
1	1498.200	40.08	-17.55	74.0	33.92	Peak	94.00	300	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	1465.300	41.14	-19.80	74.0	32.86	Peak	239.00	100	Horizontal	Pass
1**	1465.300	30.46	-19.80	54.0	23.54	AV	239.00	100	Horizontal	Pass
2	2866.000	44.64	-12.32	74.0	29.36	Peak	239.00	100	Horizontal	Pass
2**	2866.000	33.99	-12.32	54.0	20.01	AV	239.00	100	Horizontal	Pass
3	4349.500	46.88	-6.59	74.0	27.12	Peak	107.00	200	Horizontal	Pass
3**	4349.500	37.88	-6.59	54.0	16.12	AV	107.00	200	Horizontal	Pass
4	5238.000	103.65	-5.20	--	--	Peak	173.00	200	Horizontal	N/A
4**	5238.000	96.21	-5.20	--	--	AV	173.00	200	Horizontal	N/A
5	7598.250	54.76	-0.38	74.0	19.24	Peak	206.00	150	Horizontal	Pass
5**	7598.250	45.12	-0.38	54.0	8.88	AV	206.00	150	Horizontal	Pass
6	12583.276	52.63	1.30	74.0	21.37	Peak	286.00	200	Horizontal	Pass
6**	12583.276	43.50	1.30	54.0	10.50	AV	286.00	200	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	1497.700	40.42	-19.53	74.0	33.58	Peak	241.00	200	Vertical	Pass
1**	1497.700	27.86	-19.53	54.0	26.14	AV	241.00	200	Vertical	Pass
2	2835.500	43.55	-12.53	74.0	30.45	Peak	87.00	100	Vertical	Pass
2**	2835.500	34.23	-12.53	54.0	19.77	AV	87.00	100	Vertical	Pass
3	4205.750	47.20	-7.58	74.0	26.80	Peak	243.00	150	Vertical	Pass
3**	4205.750	37.68	-7.58	54.0	16.32	AV	243.00	150	Vertical	Pass
4	5235.500	94.81	-5.10	--	--	Peak	259.00	100	Vertical	N/A
4**	5235.500	86.00	-5.10	--	--	AV	259.00	100	Vertical	N/A
5	7488.500	54.57	-0.33	74.0	19.43	Peak	0.00	150	Vertical	Pass
5**	7488.500	45.87	-0.33	54.0	8.13	AV	0.00	150	Vertical	Pass
6	12332.713	52.63	0.71	74.0	21.37	Peak	274.00	400	Vertical	Pass
6**	12332.713	43.16	0.71	54.0	10.84	AV	274.00	400	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	1463.400	42.39	-19.76	74.0	31.61	Peak	230.00	400	Horizontal	Pass
1**	1463.400	29.11	-19.76	54.0	24.89	AV	230.00	400	Horizontal	Pass
2	2738.500	43.23	-12.12	74.0	30.77	Peak	195.00	200	Horizontal	Pass
2**	2738.500	34.47	-12.12	54.0	19.53	AV	195.00	200	Horizontal	Pass
3	4335.000	47.13	-6.14	74.0	26.87	Peak	329.00	150	Horizontal	Pass
3**	4335.000	38.88	-6.14	54.0	15.12	AV	329.00	150	Horizontal	Pass
4	5179.750	101.36	-4.75	--	--	Peak	172.00	200	Horizontal	N/A
4**	5179.750	93.00	-4.75	--	--	AV	172.00	200	Horizontal	N/A
5	7502.750	55.05	-0.92	74.0	18.95	Peak	197.00	100	Horizontal	Pass
5**	7502.750	45.80	-0.92	54.0	8.20	AV	197.00	100	Horizontal	Pass
6	12577.338	53.56	1.36	74.0	20.44	Peak	139.00	300	Horizontal	Pass
6**	12577.338	43.90	1.36	54.0	10.10	AV	139.00	300	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	1466.500	41.51	-19.82	74.0	32.49	Peak	301.00	200	Vertical	Pass
1**	1466.500	28.90	-19.82	54.0	25.10	AV	301.00	200	Vertical	Pass
2	2791.000	43.12	-12.58	74.0	30.88	Peak	342.00	200	Vertical	Pass
2**	2791.000	34.53	-12.58	54.0	19.47	AV	342.00	200	Vertical	Pass
3	4334.750	47.88	-6.14	74.0	26.12	Peak	237.00	100	Vertical	Pass
3**	4334.750	39.67	-6.14	54.0	14.33	AV	237.00	100	Vertical	Pass
4	5179.500	92.29	-4.76	--	--	Peak	262.00	300	Vertical	N/A
4**	5179.500	86.24	-4.76	--	--	AV	262.00	300	Vertical	N/A
5	7492.500	54.62	-0.41	74.0	19.38	Peak	155.00	150	Vertical	Pass
5**	7492.500	45.29	-0.41	54.0	8.71	AV	155.00	150	Vertical	Pass
6	12613.913	52.86	1.03	74.0	21.14	Peak	253.00	200	Vertical	Pass
6**	12613.913	44.02	1.03	54.0	9.98	AV	253.00	200	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	1491.100	39.28	-19.47	74.0	34.72	Peak	234.00	400	Horizontal	Pass
1**	1491.100	28.42	-19.47	54.0	25.58	AV	234.00	400	Horizontal	Pass
2	2874.700	43.77	-12.36	74.0	30.23	Peak	61.00	400	Horizontal	Pass
2**	2874.700	34.45	-12.36	54.0	19.55	AV	61.00	400	Horizontal	Pass
3	4307.000	47.35	-6.33	74.0	26.65	Peak	156.00	150	Horizontal	Pass
3**	4307.000	38.58	-6.33	54.0	15.42	AV	156.00	150	Horizontal	Pass
4	5219.500	101.55	-4.80	--	--	Peak	173.00	400	Horizontal	N/A
4**	5219.500	93.88	-4.80	--	--	AV	173.00	400	Horizontal	N/A
5	7493.000	54.81	-0.42	74.0	19.19	Peak	116.00	150	Horizontal	Pass
5**	7493.000	45.39	-0.42	54.0	8.61	AV	116.00	150	Horizontal	Pass
6	12420.825	53.33	0.55	74.0	20.67	Peak	185.00	200	Horizontal	Pass
6**	12420.825	44.63	0.55	54.0	9.37	AV	185.00	200	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	1195.500	41.26	-20.26	74.0	32.74	Peak	312.00	150	Vertical	Pass
1**	1195.500	27.34	-20.26	54.0	26.66	AV	312.00	150	Vertical	Pass
2	2851.400	43.15	-12.15	74.0	30.85	Peak	258.00	400	Vertical	Pass
2**	2851.400	34.32	-12.15	54.0	19.68	AV	258.00	400	Vertical	Pass
3	4351.750	47.28	-6.62	74.0	26.72	Peak	62.00	200	Vertical	Pass
3**	4351.750	37.91	-6.62	54.0	16.09	AV	62.00	200	Vertical	Pass
4	5220.750	93.00	-4.80	--	--	Peak	260.00	300	Vertical	N/A
4**	5220.750	86.07	-4.80	--	--	AV	260.00	300	Vertical	N/A
5	7494.500	54.06	-0.41	74.0	19.94	Peak	4.00	100	Vertical	Pass
5**	7494.500	45.81	-0.41	54.0	8.19	AV	4.00	100	Vertical	Pass
6	12550.500	52.40	1.61	74.0	21.60	Peak	59.00	300	Vertical	Pass
6**	12550.500	43.41	1.61	54.0	10.59	AV	59.00	300	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	1462.200	40.65	-19.75	74.0	33.35	Peak	236.00	200	Horizontal	Pass
1**	1462.200	27.54	-19.75	54.0	26.46	AV	236.00	200	Horizontal	Pass
2	2869.200	44.42	-12.43	74.0	29.58	Peak	84.00	400	Horizontal	Pass
2**	2869.200	34.35	-12.43	54.0	19.65	AV	84.00	400	Horizontal	Pass
3	4306.750	47.49	-6.35	74.0	26.51	Peak	224.00	100	Horizontal	Pass
3**	4306.750	37.72	-6.35	54.0	16.28	AV	224.00	100	Horizontal	Pass
4	5237.500	102.56	-5.17	--	--	Peak	168.00	100	Horizontal	N/A
4**	5237.500	95.29	-5.17	--	--	AV	168.00	100	Horizontal	N/A
5	7502.500	54.10	-0.90	74.0	19.90	Peak	272.00	100	Horizontal	Pass
5**	7502.500	45.13	-0.90	54.0	8.87	AV	272.00	100	Horizontal	Pass
6	12540.287	53.27	1.40	74.0	20.73	Peak	290.00	100	Horizontal	Pass
6**	12540.287	43.06	1.40	54.0	10.94	AV	290.00	100	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	1599.500	38.52	-20.07	74.0	35.48	Peak	224.00	100	Vertical	Pass
1**	1599.500	30.14	-20.07	54.0	23.86	AV	224.00	100	Vertical	Pass
2	2790.000	43.86	-12.61	74.0	30.14	Peak	67.00	300	Vertical	Pass
2**	2790.000	33.90	-12.61	54.0	20.10	AV	67.00	300	Vertical	Pass
3	4341.750	47.14	-6.31	74.0	26.86	Peak	345.00	150	Vertical	Pass
3**	4341.750	38.24	-6.31	54.0	15.76	AV	345.00	150	Vertical	Pass
4	5239.250	94.61	-5.17	--	--	Peak	264.00	200	Vertical	N/A
4**	5239.250	87.33	-5.17	--	--	AV	264.00	200	Vertical	N/A
5	7499.000	54.46	-0.70	74.0	19.54	Peak	70.00	100	Vertical	Pass
5**	7499.000	45.99	-0.70	54.0	8.01	AV	70.00	100	Vertical	Pass
6	12554.537	53.00	1.57	74.0	21.00	Peak	132.00	300	Vertical	Pass
6**	12554.537	43.58	1.57	54.0	10.42	AV	132.00	300	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	1500.100	42.10	-19.47	74.0	31.90	Peak	235.00	400	Horizontal	Pass
1**	1500.100	32.20	-19.47	54.0	21.80	AV	235.00	400	Horizontal	Pass
2	2886.900	43.92	-12.16	74.0	30.08	Peak	320.00	200	Horizontal	Pass
2**	2886.900	33.89	-12.16	54.0	20.11	AV	320.00	200	Horizontal	Pass
3	4365.500	47.27	-6.76	74.0	26.73	Peak	353.00	200	Horizontal	Pass
3**	4365.500	37.83	-6.76	54.0	16.17	AV	353.00	200	Horizontal	Pass
4	5185.750	98.54	-4.55	--	--	Peak	166.00	100	Horizontal	N/A
4**	5185.750	90.85	-4.55	--	--	AV	166.00	100	Horizontal	N/A
5	7580.000	54.44	-1.43	74.0	19.56	Peak	0.00	100	Horizontal	Pass
5**	7580.000	45.40	-1.43	54.0	8.60	AV	0.00	100	Horizontal	Pass
6	12545.037	52.83	1.50	74.0	21.17	Peak	140.00	200	Horizontal	Pass
6**	12545.037	43.94	1.50	54.0	10.06	AV	140.00	200	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	1597.000	41.56	-19.98	74.0	32.44	Peak	224.00	200	Vertical	Pass
1**	1597.000	28.35	-19.98	54.0	25.65	AV	224.00	200	Vertical	Pass
2	2889.600	43.43	-12.16	74.0	30.57	Peak	309.00	200	Vertical	Pass
2**	2889.600	34.66	-12.16	54.0	19.34	AV	309.00	200	Vertical	Pass
3	4342.250	47.66	-6.29	74.0	26.34	Peak	97.00	100	Vertical	Pass
3**	4342.250	39.18	-6.29	54.0	14.82	AV	97.00	100	Vertical	Pass
4	5192.500	90.77	-4.38	--	--	Peak	260.00	200	Vertical	N/A
4**	5192.500	83.54	-4.38	--	--	AV	260.00	200	Vertical	N/A
5	7501.500	55.37	-0.82	74.0	18.63	Peak	260.00	150	Vertical	Pass
5**	7501.500	45.56	-0.82	54.0	8.44	AV	260.00	150	Vertical	Pass
6	12515.588	53.18	0.85	74.0	20.82	Peak	163.00	400	Vertical	Pass
6**	12515.588	42.72	0.85	54.0	11.28	AV	163.00	400	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	1506.100	39.79	-19.55	74.0	34.21	Peak	230.00	400	Horizontal	Pass
1**	1506.100	28.70	-19.55	54.0	25.30	AV	230.00	400	Horizontal	Pass
2	2727.200	43.33	-11.57	74.0	30.67	Peak	14.00	200	Horizontal	Pass
2**	2727.200	34.46	-11.57	54.0	19.54	AV	14.00	200	Horizontal	Pass
3	4332.500	47.64	-6.08	74.0	26.36	Peak	278.00	150	Horizontal	Pass
3**	4332.500	38.73	-6.08	54.0	15.27	AV	278.00	150	Horizontal	Pass
4	5226.500	98.63	-4.93	--	--	Peak	165.00	300	Horizontal	N/A
4**	5226.500	90.31	-4.93	--	--	AV	165.00	300	Horizontal	N/A
5	7536.000	54.84	-0.37	74.0	19.16	Peak	206.00	150	Horizontal	Pass
5**	7536.000	45.00	-0.37	54.0	9.00	AV	206.00	150	Horizontal	Pass
6	12585.650	52.61	1.28	74.0	21.39	Peak	187.00	400	Horizontal	Pass
6**	12585.650	44.33	1.28	54.0	9.67	AV	187.00	400	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	1463.800	39.27	-19.76	74.0	34.73	Peak	243.00	400	Vertical	Pass
1**	1463.800	30.03	-19.76	54.0	23.97	AV	243.00	400	Vertical	Pass
2	2889.500	43.16	-12.15	74.0	30.84	Peak	131.00	100	Vertical	Pass
2**	2889.500	34.94	-12.15	54.0	19.06	AV	131.00	100	Vertical	Pass
3	4342.500	47.70	-6.28	74.0	26.30	Peak	329.00	150	Vertical	Pass
3**	4342.500	38.90	-6.28	54.0	15.10	AV	329.00	150	Vertical	Pass
4	5228.250	90.07	-4.97	--	--	Peak	264.00	100	Vertical	N/A
4**	5228.250	81.75	-4.97	--	--	AV	264.00	100	Vertical	N/A
5	7514.500	54.49	-1.32	74.0	19.51	Peak	182.00	200	Vertical	Pass
5**	7514.500	44.74	-1.32	54.0	9.26	AV	182.00	200	Vertical	Pass
6	12452.650	52.97	0.87	74.0	21.03	Peak	86.00	200	Vertical	Pass
6**	12452.650	43.80	0.87	54.0	10.20	AV	86.00	200	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	1463.300	42.32	-19.76	74.0	31.68	Peak	235.00	200	Horizontal	Pass
1**	1463.300	29.25	-19.76	54.0	24.75	AV	235.00	200	Horizontal	Pass
2	2798.700	44.02	-12.74	74.0	29.98	Peak	28.00	300	Horizontal	Pass
2**	2798.700	33.49	-12.74	54.0	20.51	AV	28.00	300	Horizontal	Pass
3	4199.000	47.32	-7.46	74.0	26.68	Peak	31.00	150	Horizontal	Pass
3**	4199.000	37.63	-7.46	54.0	16.37	AV	31.00	150	Horizontal	Pass
4	5182.500	100.33	-4.63	--	--	Peak	172.00	400	Horizontal	N/A
4**	5182.500	92.38	-4.63	--	--	AV	172.00	400	Horizontal	N/A
5	7490.500	54.67	-0.32	74.0	19.33	Peak	317.00	150	Horizontal	Pass
5**	7490.500	46.24	-0.32	54.0	7.76	AV	317.00	150	Horizontal	Pass
6	12423.675	53.04	0.58	74.0	20.96	Peak	163.00	300	Horizontal	Pass
6**	12423.675	43.27	0.58	54.0	10.73	AV	163.00	300	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	1593.200	40.56	-20.00	74.0	33.44	Peak	225.00	400	Vertical	Pass
1**	1593.200	28.88	-20.00	54.0	25.12	AV	225.00	400	Vertical	Pass
2	2884.700	43.55	-12.25	74.0	30.45	Peak	269.00	300	Vertical	Pass
2**	2884.700	33.55	-12.25	54.0	20.45	AV	269.00	300	Vertical	Pass
3	4114.250	47.51	-7.23	74.0	26.49	Peak	82.00	200	Vertical	Pass
3**	4114.250	37.80	-7.23	54.0	16.20	AV	82.00	200	Vertical	Pass
4	5178.500	93.40	-4.83	--	--	Peak	263.00	400	Vertical	N/A
4**	5178.500	85.61	-4.83	--	--	AV	263.00	400	Vertical	N/A
5	7403.750	54.51	-2.16	74.0	19.49	Peak	164.00	150	Vertical	Pass
5**	7403.750	44.53	-2.16	54.0	9.47	AV	164.00	150	Vertical	Pass
6	12606.550	53.30	1.09	74.0	20.70	Peak	155.00	400	Vertical	Pass
6**	12606.550	43.85	1.09	54.0	10.15	AV	155.00	400	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	1499.600	42.06	-19.49	74.0	31.94	Peak	234.00	300	Horizontal	Pass
1**	1499.600	32.50	-19.49	54.0	21.50	AV	234.00	300	Horizontal	Pass
2	2883.900	44.21	-12.28	74.0	29.79	Peak	120.00	100	Horizontal	Pass
2**	2883.900	33.83	-12.28	54.0	20.17	AV	120.00	100	Horizontal	Pass
3	4346.250	47.80	-6.48	74.0	26.20	Peak	307.00	200	Horizontal	Pass
3**	4346.250	38.69	-6.48	54.0	15.31	AV	307.00	200	Horizontal	Pass
4	5221.750	100.95	-4.78	--	--	Peak	167.00	100	Horizontal	N/A
4**	5221.750	92.85	-4.78	--	--	AV	167.00	100	Horizontal	N/A
5	7498.750	54.18	-0.68	74.0	19.82	Peak	53.00	200	Horizontal	Pass
5**	7498.750	45.76	-0.68	54.0	8.24	AV	53.00	200	Horizontal	Pass
6	12579.000	52.67	1.34	74.0	21.33	Peak	133.00	200	Horizontal	Pass
6**	12579.000	43.70	1.34	54.0	10.30	AV	133.00	200	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	1497.400	40.49	-19.52	74.0	33.51	Peak	299.00	300	Vertical	Pass
1**	1497.400	32.50	-19.52	54.0	21.50	AV	299.00	300	Vertical	Pass
2	2786.700	43.07	-12.77	74.0	30.93	Peak	275.00	200	Vertical	Pass
2**	2786.700	33.58	-12.77	54.0	20.42	AV	275.00	200	Vertical	Pass
3	4355.750	47.99	-6.63	74.0	26.01	Peak	77.00	200	Vertical	Pass
3**	4355.750	38.35	-6.63	54.0	15.65	AV	77.00	200	Vertical	Pass
4	5220.750	93.75	-4.80	--	--	Peak	264.00	100	Vertical	N/A
4**	5220.750	85.99	-4.80	--	--	AV	264.00	100	Vertical	N/A
5	7489.750	55.07	-0.32	74.0	18.93	Peak	44.00	200	Vertical	Pass
5**	7489.750	45.53	-0.32	54.0	8.47	AV	44.00	200	Vertical	Pass
6	12301.125	53.54	0.66	74.0	20.46	Peak	42.00	200	Vertical	Pass
6**	12301.125	43.04	0.66	54.0	10.96	AV	42.00	200	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	1504.600	40.60	-19.56	74.0	33.40	Peak	230.00	400	Horizontal	Pass
1**	1504.600	32.10	-19.56	54.0	21.90	AV	230.00	400	Horizontal	Pass
2	2887.900	44.08	-12.12	74.0	29.92	Peak	41.00	100	Horizontal	Pass
2**	2887.900	34.34	-12.12	54.0	19.66	AV	41.00	100	Horizontal	Pass
3	4327.000	47.77	-5.94	74.0	26.23	Peak	236.00	200	Horizontal	Pass
3**	4327.000	39.78	-5.94	54.0	14.22	AV	236.00	200	Horizontal	Pass
4	5241.500	103.75	-5.20	--	--	Peak	170.00	200	Horizontal	N/A
4**	5241.500	96.03	-5.20	--	--	AV	170.00	200	Horizontal	N/A
5	7290.750	54.79	-2.02	74.0	19.21	Peak	236.00	100	Horizontal	Pass
5**	7290.750	43.30	-2.02	54.0	10.70	AV	236.00	100	Horizontal	Pass
6	12400.874	53.02	0.32	74.0	20.98	Peak	218.00	300	Horizontal	Pass
6**	12400.874	42.65	0.32	54.0	11.35	AV	218.00	300	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	1597.000	40.02	-19.98	74.0	33.98	Peak	226.00	100	Vertical	Pass
1**	1597.000	28.48	-19.98	54.0	25.52	AV	226.00	100	Vertical	Pass
2	2721.800	44.11	-11.94	74.0	29.89	Peak	360.00	100	Vertical	Pass
2**	2721.800	34.56	-11.94	54.0	19.44	AV	360.00	100	Vertical	Pass
3	4356.250	47.68	-6.65	74.0	26.32	Peak	21.00	100	Vertical	Pass
3**	4356.250	39.04	-6.65	54.0	14.96	AV	21.00	100	Vertical	Pass
4	5241.750	93.75	-5.21	--	--	Peak	258.00	400	Vertical	N/A
4**	5241.750	86.65	-5.21	--	--	AV	258.00	400	Vertical	N/A
5	7580.500	54.40	-1.42	74.0	19.60	Peak	193.00	150	Vertical	Pass
5**	7580.500	44.82	-1.42	54.0	9.18	AV	193.00	150	Vertical	Pass
6	12394.937	52.68	0.35	74.0	21.32	Peak	277.00	100	Vertical	Pass
6**	12394.937	42.77	0.35	54.0	11.23	AV	277.00	100	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	1481.600	43.47	-19.66	74.0	30.53	Peak	234.00	400	Horizontal	Pass
1**	1481.600	30.07	-19.66	54.0	23.93	AV	234.00	400	Horizontal	Pass
2	2733.400	44.15	-11.69	74.0	29.85	Peak	273.00	200	Horizontal	Pass
2**	2733.400	34.40	-11.69	54.0	19.60	AV	273.00	200	Horizontal	Pass
3	4356.250	47.20	-6.65	74.0	26.80	Peak	0.00	150	Horizontal	Pass
3**	4356.250	38.70	-6.65	54.0	15.30	AV	0.00	150	Horizontal	Pass
4	5187.000	100.22	-4.43	--	--	Peak	169.00	100	Horizontal	N/A
4**	5187.000	91.64	-4.43	--	--	AV	169.00	100	Horizontal	N/A
5	7489.500	55.27	-0.33	74.0	18.73	Peak	217.00	150	Horizontal	Pass
5**	7489.500	45.07	-0.33	54.0	8.93	AV	217.00	150	Horizontal	Pass
6	12299.463	52.91	0.65	74.0	21.09	Peak	286.00	400	Horizontal	Pass
6**	12299.463	43.36	0.65	54.0	10.64	AV	286.00	400	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	1548.600	38.57	-19.78	74.0	35.43	Peak	57.00	300	Vertical	Pass
1**	1548.600	27.89	-19.78	54.0	26.11	AV	57.00	300	Vertical	Pass
2	2857.200	44.60	-12.34	74.0	29.40	Peak	360.00	400	Vertical	Pass
2**	2857.200	34.97	-12.34	54.0	19.03	AV	360.00	400	Vertical	Pass
3	4344.500	46.78	-6.35	74.0	27.22	Peak	169.00	100	Vertical	Pass
3**	4344.500	38.65	-6.35	54.0	15.35	AV	169.00	100	Vertical	Pass
4	5187.500	90.28	-4.41	--	--	Peak	258.00	400	Vertical	N/A
4**	5187.500	82.62	-4.41	--	--	AV	258.00	400	Vertical	N/A
5	7495.000	54.23	-0.41	74.0	19.77	Peak	360.00	150	Vertical	Pass
5**	7495.000	45.70	-0.41	54.0	8.30	AV	360.00	150	Vertical	Pass
6	12613.200	53.15	1.04	74.0	20.85	Peak	160.00	300	Vertical	Pass
6**	12613.200	43.31	1.04	54.0	10.69	AV	160.00	300	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	1500.400	41.56	-19.48	74.0	32.44	Peak	231.00	400	Horizontal	Pass
1**	1500.400	29.10	-19.48	54.0	24.90	AV	231.00	400	Horizontal	Pass
2	2854.300	43.42	-12.29	74.0	30.58	Peak	269.00	300	Horizontal	Pass
2**	2854.300	35.02	-12.29	54.0	18.98	AV	269.00	300	Horizontal	Pass
3	4352.250	47.19	-6.62	74.0	26.81	Peak	236.00	150	Horizontal	Pass
3**	4352.250	38.81	-6.62	54.0	15.19	AV	236.00	150	Horizontal	Pass
4	5235.500	98.95	-5.10	--	--	Peak	170.00	400	Horizontal	N/A
4**	5235.500	91.24	-5.10	--	--	AV	170.00	400	Horizontal	N/A
5	7489.500	54.69	-0.33	74.0	19.31	Peak	302.00	150	Horizontal	Pass
5**	7489.500	47.44	-0.33	54.0	6.56	AV	302.00	150	Horizontal	Pass
6	12336.750	52.50	0.71	74.0	21.50	Peak	145.00	400	Horizontal	Pass
6**	12336.750	42.51	0.71	54.0	11.49	AV	145.00	400	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	1594.900	37.85	-19.96	74.0	36.15	Peak	0.00	100	Vertical	Pass
1**	1594.900	29.34	-19.96	54.0	24.66	AV	0.00	100	Vertical	Pass
2	2738.200	43.76	-12.08	74.0	30.24	Peak	136.00	200	Vertical	Pass
2**	2738.200	33.98	-12.08	54.0	20.02	AV	136.00	200	Vertical	Pass
3	4299.000	48.58	-6.61	74.0	25.42	Peak	185.00	200	Vertical	Pass
3**	4299.000	37.62	-6.61	54.0	16.38	AV	185.00	200	Vertical	Pass
4	5219.250	90.28	-4.80	--	--	Peak	259.00	100	Vertical	N/A
4**	5219.250	82.68	-4.80	--	--	AV	259.00	100	Vertical	N/A
5	7500.000	54.46	-0.74	74.0	19.54	Peak	127.00	150	Vertical	Pass
5**	7500.000	45.68	-0.74	54.0	8.32	AV	127.00	150	Vertical	Pass
6	12585.650	53.21	1.28	74.0	20.79	Peak	62.00	300	Vertical	Pass
6**	12585.650	43.97	1.28	54.0	10.03	AV	62.00	300	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	1468.600	41.19	-19.77	74.0	32.81	Peak	232.00	300	Horizontal	Pass
1**	1468.600	28.14	-19.77	54.0	25.86	AV	232.00	300	Horizontal	Pass
2	2887.300	43.35	-12.14	74.0	30.65	Peak	258.00	400	Horizontal	Pass
2**	2887.300	34.16	-12.14	54.0	19.84	AV	258.00	400	Horizontal	Pass
3	4327.750	48.18	-5.94	74.0	25.82	Peak	265.00	150	Horizontal	Pass
3**	4327.750	38.04	-5.94	54.0	15.96	AV	265.00	150	Horizontal	Pass
4	5219.500	96.67	-4.80	--	--	Peak	171.00	400	Horizontal	N/A
4**	5219.500	88.08	-4.80	--	--	AV	171.00	400	Horizontal	N/A
5	7499.000	54.86	-0.70	74.0	19.14	Peak	133.00	100	Horizontal	Pass
5**	7499.000	46.67	-0.70	54.0	7.33	AV	133.00	100	Horizontal	Pass
6	12607.737	52.57	1.08	74.0	21.43	Peak	338.00	300	Horizontal	Pass
6**	12607.737	43.66	1.08	54.0	10.34	AV	338.00	300	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	1459.800	40.01	-19.70	74.0	33.99	Peak	273.00	200	Vertical	Pass
1**	1459.800	27.22	-19.70	54.0	26.78	AV	273.00	200	Vertical	Pass
2	2725.000	43.81	-11.69	74.0	30.19	Peak	360.00	200	Vertical	Pass
2**	2725.000	34.59	-11.69	54.0	19.41	AV	360.00	200	Vertical	Pass
3	4324.500	48.13	-5.93	74.0	25.87	Peak	168.00	200	Vertical	Pass
3**	4324.500	38.60	-5.93	54.0	15.40	AV	168.00	200	Vertical	Pass
4	5217.500	88.38	-4.73	--	--	Peak	259.00	200	Vertical	N/A
4**	5217.500	79.89	-4.73	--	--	AV	259.00	200	Vertical	N/A
5	7496.000	54.43	-0.49	74.0	19.57	Peak	307.00	150	Vertical	Pass
5**	7496.000	46.41	-0.49	54.0	7.59	AV	307.00	150	Vertical	Pass
6	12581.137	52.56	1.32	74.0	21.44	Peak	352.00	200	Vertical	Pass
6**	12581.137	44.22	1.32	54.0	9.78	AV	352.00	200	Vertical	Pass

## 11a, U-NII-2A, 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	1471.800	41.28	-19.74	74.0	32.72	Peak	234.00	200	Horizontal	Pass
1**	1471.800	27.72	-19.74	54.0	26.28	AV	234.00	200	Horizontal	Pass
2	2728.700	43.58	-11.47	74.0	30.42	Peak	317.00	400	Horizontal	Pass
2**	2728.700	34.18	-11.47	54.0	19.82	AV	317.00	400	Horizontal	Pass
3	4341.000	47.39	-6.30	74.0	26.61	Peak	360.00	100	Horizontal	Pass
3**	4341.000	39.05	-6.30	54.0	14.95	AV	360.00	100	Horizontal	Pass
4	5255.500	104.20	-5.24	--	--	Peak	173.00	300	Horizontal	N/A
4**	5255.500	95.24	-5.24	--	--	AV	173.00	300	Horizontal	N/A
5	7483.500	54.38	-0.59	74.0	19.62	Peak	353.00	150	Horizontal	Pass
5**	7483.500	44.65	-0.59	54.0	9.35	AV	353.00	150	Horizontal	Pass
6	12610.113	53.35	1.06	74.0	20.65	Peak	60.00	200	Horizontal	Pass
6**	12610.113	43.37	1.06	54.0	10.63	AV	60.00	200	Horizontal	Pass

## 11a, U-NII-2A, 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	1592.700	39.64	-19.98	74.0	34.36	Peak	224.00	150	Vertical	Pass
1**	1592.700	31.50	-19.98	54.0	22.50	AV	224.00	150	Vertical	Pass
2	2724.000	43.24	-11.75	74.0	30.76	Peak	266.00	150	Vertical	Pass
2**	2724.000	34.04	-11.75	54.0	19.96	AV	266.00	150	Vertical	Pass
3	4350.000	47.35	-6.60	74.0	26.65	Peak	170.00	150	Vertical	Pass
3**	4350.000	38.06	-6.60	54.0	15.94	AV	170.00	150	Vertical	Pass
4	5265.250	94.98	-5.12	--	--	Peak	79.00	150	Vertical	N/A
4**	5265.250	86.95	-5.12	--	--	AV	79.00	150	Vertical	N/A
5	7705.000	54.27	-1.46	74.0	19.73	Peak	12.00	150	Vertical	Pass
5**	7705.000	44.89	-1.46	54.0	9.11	AV	12.00	150	Vertical	Pass
6	12453.363	53.54	0.86	74.0	20.46	Peak	162.00	150	Vertical	Pass
6**	12453.363	43.67	0.86	54.0	10.33	AV	162.00	150	Vertical	Pass



## 11a, U-NII-2A, 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	1466.200	41.52	-19.82	74.0	32.48	Peak	227.00	100	Horizontal	Pass
1**	1466.200	29.86	-19.82	54.0	24.14	AV	227.00	100	Horizontal	Pass
2	2875.700	43.62	-12.36	74.0	30.38	Peak	53.00	200	Horizontal	Pass
2**	2875.700	34.56	-12.36	54.0	19.44	AV	53.00	200	Horizontal	Pass
3	4351.000	49.30	-6.61	74.0	24.70	Peak	54.00	100	Horizontal	Pass
3**	4351.000	39.12	-6.61	54.0	14.88	AV	54.00	100	Horizontal	Pass
4	5301.750	104.20	-5.66	--	--	Peak	170.00	400	Horizontal	N/A
4**	5301.750	97.12	-5.66	--	--	AV	170.00	400	Horizontal	N/A
5	7487.000	54.44	-0.36	74.0	19.56	Peak	304.00	100	Horizontal	Pass
5**	7487.000	45.44	-0.36	54.0	8.56	AV	304.00	100	Horizontal	Pass
6	12577.812	52.51	1.35	74.0	21.49	Peak	145.00	300	Horizontal	Pass
6**	12577.812	43.94	1.35	54.0	10.06	AV	145.00	300	Horizontal	Pass

## 11a, U-NII-2A, 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	1598.500	40.78	-20.04	74.0	33.22	Peak	223.00	100	Vertical	Pass
1**	1598.500	28.06	-20.04	54.0	25.94	AV	223.00	100	Vertical	Pass
2	2885.600	43.72	-12.22	74.0	30.28	Peak	183.00	100	Vertical	Pass
2**	2885.600	34.94	-12.22	54.0	19.06	AV	183.00	100	Vertical	Pass
3	4346.000	47.69	-6.48	74.0	26.31	Peak	4.00	200	Vertical	Pass
3**	4346.000	38.54	-6.48	54.0	15.46	AV	4.00	200	Vertical	Pass
4	5297.000	95.72	-5.51	--	--	Peak	266.00	300	Vertical	N/A
4**	5297.000	87.84	-5.51	--	--	AV	266.00	300	Vertical	N/A
5	7500.250	54.79	-0.75	74.0	19.21	Peak	241.00	100	Vertical	Pass
5**	7500.250	45.66	-0.75	54.0	8.34	AV	241.00	100	Vertical	Pass
6	12270.963	52.58	0.49	74.0	21.42	Peak	274.00	300	Vertical	Pass
6**	12270.963	43.27	0.49	54.0	10.73	AV	274.00	300	Vertical	Pass

## 11a, U-NII-2A, 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	1516.200	39.69	-19.62	74.0	34.31	Peak	225.00	200	Horizontal	Pass
1**	1516.200	29.36	-19.62	54.0	24.64	AV	225.00	200	Horizontal	Pass
2	2836.800	43.72	-12.55	74.0	30.28	Peak	357.00	200	Horizontal	Pass
2**	2836.800	33.64	-12.55	54.0	20.36	AV	357.00	200	Horizontal	Pass
3	4216.000	48.33	-7.72	74.0	25.67	Peak	350.00	200	Horizontal	Pass
3**	4216.000	37.17	-7.72	54.0	16.83	AV	350.00	200	Horizontal	Pass
4	5321.250	104.22	-5.61	--	--	Peak	162.00	400	Horizontal	N/A
4**	5321.250	97.75	-5.61	--	--	AV	162.00	400	Horizontal	N/A
5	7505.000	54.36	-1.02	74.0	19.64	Peak	43.00	150	Horizontal	Pass
5**	7505.000	45.62	-1.02	54.0	8.38	AV	43.00	150	Horizontal	Pass
6	12546.224	53.06	1.53	74.0	20.94	Peak	174.00	300	Horizontal	Pass
6**	12546.224	43.44	1.53	54.0	10.56	AV	174.00	300	Horizontal	Pass

## 11a, U-NII-2A, 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	1593.500	39.73	-20.01	74.0	34.27	Peak	219.00	300	Vertical	Pass
1**	1593.500	31.07	-20.01	54.0	22.93	AV	219.00	300	Vertical	Pass
2	2800.200	43.63	-12.82	74.0	30.37	Peak	8.00	300	Vertical	Pass
2**	2800.200	33.41	-12.82	54.0	20.59	AV	8.00	300	Vertical	Pass
3	4358.250	47.64	-6.59	74.0	26.36	Peak	15.00	200	Vertical	Pass
3**	4358.250	38.00	-6.59	54.0	16.00	AV	15.00	200	Vertical	Pass
4	5318.750	95.28	-5.68	--	--	Peak	74.00	100	Vertical	N/A
4**	5318.750	88.58	-5.68	--	--	AV	74.00	100	Vertical	N/A
5	7596.500	54.97	-0.45	74.0	19.03	Peak	253.00	200	Vertical	Pass
5**	7596.500	44.99	-0.45	54.0	9.01	AV	253.00	200	Vertical	Pass
6	12308.250	53.07	0.67	74.0	20.93	Peak	162.00	400	Vertical	Pass
6**	12308.250	43.16	0.67	54.0	10.84	AV	162.00	400	Vertical	Pass

## 11n20, U-NII-2A, 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	1497.500	39.77	-19.52	74.0	34.23	Peak	289.00	100	Horizontal	Pass
1**	1497.500	31.43	-19.52	54.0	22.57	AV	289.00	100	Horizontal	Pass
2	2788.000	43.42	-12.74	74.0	30.58	Peak	70.00	400	Horizontal	Pass
2**	2788.000	33.45	-12.74	54.0	20.55	AV	70.00	400	Horizontal	Pass
3	4290.750	47.73	-6.75	74.0	26.27	Peak	152.00	150	Horizontal	Pass
3**	4290.750	37.25	-6.75	54.0	16.75	AV	152.00	150	Horizontal	Pass
4	5258.000	103.57	-5.25	--	--	Peak	169.00	100	Horizontal	N/A
4**	5258.000	95.07	-5.25	--	--	AV	169.00	100	Horizontal	N/A
5	7525.250	54.49	-0.94	74.0	19.51	Peak	250.00	150	Horizontal	Pass
5**	7525.250	44.91	-0.94	54.0	9.09	AV	250.00	150	Horizontal	Pass
6	12643.125	52.58	0.78	74.0	21.42	Peak	295.00	300	Horizontal	Pass
6**	12643.125	42.85	0.78	54.0	11.15	AV	295.00	300	Horizontal	Pass

## 11n20, U-NII-2A, 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	1493.300	39.37	-19.42	74.0	34.63	Peak	264.00	200	Vertical	Pass
1**	1493.300	27.42	-19.42	54.0	26.58	AV	264.00	200	Vertical	Pass
2	2725.900	43.51	-11.65	74.0	30.49	Peak	77.00	400	Vertical	Pass
2**	2725.900	33.65	-11.65	54.0	20.35	AV	77.00	400	Vertical	Pass
3	4331.000	47.45	-6.00	74.0	26.55	Peak	142.00	200	Vertical	Pass
3**	4331.000	39.16	-6.00	54.0	14.84	AV	142.00	200	Vertical	Pass
4	5258.750	95.08	-5.26	--	--	Peak	264.00	200	Vertical	N/A
4**	5258.750	87.33	-5.26	--	--	AV	264.00	200	Vertical	N/A
5	7501.000	54.19	-0.79	74.0	19.81	Peak	346.00	100	Vertical	Pass
5**	7501.000	46.03	-0.79	54.0	7.97	AV	346.00	100	Vertical	Pass
6	12301.362	53.81	0.66	74.0	20.19	Peak	141.00	300	Vertical	Pass
6**	12301.362	42.96	0.66	54.0	11.04	AV	141.00	300	Vertical	Pass

## 11n20, U-NII-2A, 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	1518.000	40.38	-19.59	74.0	33.62	Peak	232.00	100	Horizontal	Pass
1**	1518.000	28.95	-19.59	54.0	25.05	AV	232.00	100	Horizontal	Pass
2	2726.600	43.18	-11.61	74.0	30.82	Peak	179.00	100	Horizontal	Pass
2**	2726.600	33.95	-11.61	54.0	20.05	AV	179.00	100	Horizontal	Pass
3	4326.000	47.47	-5.94	74.0	26.53	Peak	0.00	100	Horizontal	Pass
3**	4326.000	38.75	-5.94	54.0	15.25	AV	0.00	100	Horizontal	Pass
4	5297.750	103.63	-5.52	--	--	Peak	169.00	200	Horizontal	N/A
4**	5297.750	95.88	-5.52	--	--	AV	169.00	200	Horizontal	N/A
5	7717.250	54.77	-1.53	74.0	19.23	Peak	339.00	100	Horizontal	Pass
5**	7717.250	46.06	-1.53	54.0	7.94	AV	339.00	100	Horizontal	Pass
6	12254.338	53.01	0.39	74.0	20.99	Peak	72.00	200	Horizontal	Pass
6**	12254.338	41.72	0.39	54.0	12.28	AV	72.00	200	Horizontal	Pass

## 11n20, U-NII-2A, 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	1598.000	40.58	-20.03	74.0	33.42	Peak	315.00	200	Vertical	Pass
1**	1598.000	28.15	-20.03	54.0	25.85	AV	315.00	200	Vertical	Pass
2	2851.600	43.37	-12.14	74.0	30.63	Peak	0.00	400	Vertical	Pass
2**	2851.600	34.02	-12.14	54.0	19.98	AV	0.00	400	Vertical	Pass
3	4328.250	47.64	-5.94	74.0	26.36	Peak	39.00	150	Vertical	Pass
3**	4328.250	39.25	-5.94	54.0	14.75	AV	39.00	150	Vertical	Pass
4	5297.750	95.51	-5.52	--	--	Peak	79.00	400	Vertical	N/A
4**	5297.750	88.21	-5.52	--	--	AV	79.00	400	Vertical	N/A
5	7491.500	54.86	-0.36	74.0	19.14	Peak	217.00	100	Vertical	Pass
5**	7491.500	46.42	-0.36	54.0	7.58	AV	217.00	100	Vertical	Pass
6	12581.613	52.69	1.32	74.0	21.31	Peak	207.00	400	Vertical	Pass
6**	12581.613	43.10	1.32	54.0	10.90	AV	207.00	400	Vertical	Pass

## 11n20, U-NII-2A, 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	1464.600	41.86	-19.78	74.0	32.14	Peak	234.00	200	Horizontal	Pass
1**	1464.600	31.76	-19.78	54.0	22.24	AV	234.00	200	Horizontal	Pass
2	2880.000	43.72	-12.29	74.0	30.28	Peak	98.00	400	Horizontal	Pass
2**	2880.000	33.67	-12.29	54.0	20.33	AV	98.00	400	Horizontal	Pass
3	4310.750	46.98	-6.20	74.0	27.02	Peak	208.00	150	Horizontal	Pass
3**	4310.750	37.79	-6.20	54.0	16.21	AV	208.00	150	Horizontal	Pass
4	5318.750	103.54	-5.68	--	--	Peak	168.00	400	Horizontal	N/A
4**	5318.750	95.95	-5.68	--	--	AV	168.00	400	Horizontal	N/A
5	7696.250	54.06	-1.42	74.0	19.94	Peak	119.00	100	Horizontal	Pass
5**	7696.250	44.29	-1.42	54.0	9.71	AV	119.00	100	Horizontal	Pass
6	12362.162	52.44	0.63	74.0	21.56	Peak	129.00	400	Horizontal	Pass
6**	12362.162	43.45	0.63	54.0	10.55	AV	129.00	400	Horizontal	Pass

## 11n20, U-NII-2A, 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	1463.900	38.54	-19.77	74.0	35.46	Peak	266.00	400	Vertical	Pass
1**	1463.900	31.22	-19.77	54.0	22.78	AV	266.00	400	Vertical	Pass
2	2876.900	43.45	-12.39	74.0	30.55	Peak	218.00	100	Vertical	Pass
2**	2876.900	34.07	-12.39	54.0	19.93	AV	218.00	100	Vertical	Pass
3	4348.750	47.70	-6.55	74.0	26.30	Peak	75.00	100	Vertical	Pass
3**	4348.750	38.32	-6.55	54.0	15.68	AV	75.00	100	Vertical	Pass
4	5322.250	95.79	-5.60	--	--	Peak	264.00	200	Vertical	N/A
4**	5322.250	87.44	-5.60	--	--	AV	264.00	200	Vertical	N/A
5	7513.000	54.39	-1.33	74.0	19.61	Peak	175.00	100	Vertical	Pass
5**	7513.000	44.95	-1.33	54.0	9.05	AV	175.00	100	Vertical	Pass
6	12578.763	53.08	1.35	74.0	20.92	Peak	285.00	400	Vertical	Pass
6**	12578.763	45.05	1.35	54.0	8.95	AV	285.00	400	Vertical	Pass

## 11n40, U-NII-2A, 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	1463.600	41.91	-19.76	74.0	32.09	Peak	227.00	100	Horizontal	Pass
1**	1463.600	28.87	-19.76	54.0	25.13	AV	227.00	100	Horizontal	Pass
2	2887.500	43.68	-12.13	74.0	30.32	Peak	279.00	300	Horizontal	Pass
2**	2887.500	34.86	-12.13	54.0	19.14	AV	279.00	300	Horizontal	Pass
3	4339.250	47.74	-6.22	74.0	26.26	Peak	271.00	200	Horizontal	Pass
3**	4339.250	39.24	-6.22	54.0	14.76	AV	271.00	200	Horizontal	Pass
4	5266.500	101.08	-5.11	--	--	Peak	173.00	300	Horizontal	N/A
4**	5266.500	92.88	-5.11	--	--	AV	173.00	300	Horizontal	N/A
5	7490.750	54.53	-0.33	74.0	19.47	Peak	279.00	150	Horizontal	Pass
5**	7490.750	45.93	-0.33	54.0	8.07	AV	279.00	150	Horizontal	Pass
6	12418.213	52.31	0.52	74.0	21.69	Peak	183.00	400	Horizontal	Pass
6**	12418.213	43.12	0.52	54.0	10.88	AV	183.00	400	Horizontal	Pass

## 11n40, U-NII-2A, 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	1592.700	40.78	-19.98	74.0	33.22	Peak	218.00	300	Vertical	Pass
1**	1592.700	31.43	-19.98	54.0	22.57	AV	218.00	300	Vertical	Pass
2	2821.900	43.67	-12.77	74.0	30.33	Peak	281.00	200	Vertical	Pass
2**	2821.900	33.55	-12.77	54.0	20.45	AV	281.00	200	Vertical	Pass
3	4353.750	47.46	-6.60	74.0	26.54	Peak	249.00	200	Vertical	Pass
3**	4353.750	38.56	-6.60	54.0	15.44	AV	249.00	200	Vertical	Pass
4	5266.750	92.96	-5.11	--	--	Peak	265.00	300	Vertical	N/A
4**	5266.750	84.98	-5.11	--	--	AV	265.00	300	Vertical	N/A
5	7531.500	54.37	-0.61	74.0	19.63	Peak	78.00	100	Vertical	Pass
5**	7531.500	45.74	-0.61	54.0	8.26	AV	78.00	100	Vertical	Pass
6	12335.088	53.14	0.71	74.0	20.86	Peak	351.00	100	Vertical	Pass
6**	12335.088	42.91	0.71	54.0	11.09	AV	351.00	100	Vertical	Pass

## 11n40, U-NII-2A, 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	1464.000	40.27	-19.77	74.0	33.73	Peak	216.00	400	Horizontal	Pass
1**	1464.000	27.48	-19.77	54.0	26.52	AV	216.00	400	Horizontal	Pass
2	2721.800	43.28	-11.94	74.0	30.72	Peak	45.00	200	Horizontal	Pass
2**	2721.800	33.79	-11.94	54.0	20.21	AV	45.00	200	Horizontal	Pass
3	4309.250	47.14	-6.29	74.0	26.86	Peak	265.00	150	Horizontal	Pass
3**	4309.250	38.17	-6.29	54.0	15.83	AV	265.00	150	Horizontal	Pass
4	5313.250	100.65	-5.71	--	--	Peak	175.00	100	Horizontal	N/A
4**	5313.250	93.05	-5.71	--	--	AV	175.00	100	Horizontal	N/A
5	7497.250	54.70	-0.59	74.0	19.30	Peak	101.00	200	Horizontal	Pass
5**	7497.250	46.11	-0.59	54.0	7.89	AV	101.00	200	Horizontal	Pass
6	12334.137	52.31	0.71	74.0	21.69	Peak	296.00	400	Horizontal	Pass
6**	12334.137	42.92	0.71	54.0	11.08	AV	296.00	400	Horizontal	Pass

## 11n40, U-NII-2A, 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	1498.700	39.84	-19.52	74.0	34.16	Peak	74.00	100	Vertical	Pass
1**	1498.700	28.10	-19.52	54.0	25.90	AV	74.00	100	Vertical	Pass
2	2855.400	43.58	-12.32	74.0	30.42	Peak	327.00	100	Vertical	Pass
2**	2855.400	34.70	-12.32	54.0	19.30	AV	327.00	100	Vertical	Pass
3	4367.250	47.94	-6.82	74.0	26.06	Peak	360.00	100	Vertical	Pass
3**	4367.250	39.36	-6.82	54.0	14.64	AV	360.00	100	Vertical	Pass
4	5313.000	93.43	-5.71	--	--	Peak	265.00	100	Vertical	N/A
4**	5313.000	85.53	-5.71	--	--	AV	265.00	100	Vertical	N/A
5	7603.000	54.59	-0.51	74.0	19.41	Peak	110.00	200	Vertical	Pass
5**	7603.000	45.70	-0.51	54.0	8.30	AV	110.00	200	Vertical	Pass
6	12422.963	52.51	0.57	74.0	21.49	Peak	352.00	100	Vertical	Pass
6**	12422.963	43.06	0.57	54.0	10.94	AV	352.00	100	Vertical	Pass

## 11ac20, U-NII-2A, 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	1481.300	38.96	-19.67	74.0	35.04	Peak	231.00	200	Horizontal	Pass
1**	1481.300	29.84	-19.67	54.0	24.16	AV	231.00	200	Horizontal	Pass
2	2722.800	43.65	-11.85	74.0	30.35	Peak	84.00	100	Horizontal	Pass
2**	2722.800	34.28	-11.85	54.0	19.72	AV	84.00	100	Horizontal	Pass
3	4173.500	47.97	-6.75	74.0	26.03	Peak	348.00	100	Horizontal	Pass
3**	4173.500	37.43	-6.75	54.0	16.57	AV	348.00	100	Horizontal	Pass
4	5263.000	103.14	-5.19	--	--	Peak	168.00	100	Horizontal	N/A
4**	5263.000	96.10	-5.19	--	--	AV	168.00	100	Horizontal	N/A
5	7495.500	54.73	-0.45	74.0	19.27	Peak	241.00	100	Horizontal	Pass
5**	7495.500	46.16	-0.45	54.0	7.84	AV	241.00	100	Horizontal	Pass
6	12452.650	52.44	0.87	74.0	21.56	Peak	114.00	300	Horizontal	Pass
6**	12452.650	43.61	0.87	54.0	10.39	AV	114.00	300	Horizontal	Pass

## 11ac20, U-NII-2A, 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	1499.700	41.43	-19.49	74.0	32.57	Peak	300.00	200	Vertical	Pass
1**	1499.700	35.06	-19.49	54.0	18.94	AV	300.00	200	Vertical	Pass
2	2882.300	44.55	-12.25	74.0	29.45	Peak	48.00	100	Vertical	Pass
2**	2882.300	34.18	-12.25	54.0	19.82	AV	48.00	100	Vertical	Pass
3	4348.250	48.16	-6.52	74.0	25.84	Peak	207.00	100	Vertical	Pass
3**	4348.250	38.43	-6.52	54.0	15.57	AV	207.00	100	Vertical	Pass
4	5258.750	95.63	-5.26	--	--	Peak	265.00	400	Vertical	N/A
4**	5258.750	89.03	-5.26	--	--	AV	265.00	400	Vertical	N/A
5	7539.250	55.33	-0.21	74.0	18.67	Peak	0.00	150	Vertical	Pass
5**	7539.250	45.27	-0.21	54.0	8.73	AV	0.00	150	Vertical	Pass
6	12438.875	52.93	0.76	74.0	21.07	Peak	204.00	200	Vertical	Pass
6**	12438.875	43.15	0.76	54.0	10.85	AV	204.00	200	Vertical	Pass



## 11ac20, U-NII-2A, 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	1480.500	40.20	-19.68	74.0	33.80	Peak	220.00	400	Horizontal	Pass
1**	1480.500	30.55	-19.68	54.0	23.45	AV	220.00	400	Horizontal	Pass
2	2785.200	43.33	-12.84	74.0	30.67	Peak	3.00	300	Horizontal	Pass
2**	2785.200	33.57	-12.84	54.0	20.43	AV	3.00	300	Horizontal	Pass
3	4342.750	47.93	-6.27	74.0	26.07	Peak	275.00	200	Horizontal	Pass
3**	4342.750	39.10	-6.27	54.0	14.90	AV	275.00	200	Horizontal	Pass
4	5297.750	103.72	-5.52	--	--	Peak	176.00	200	Horizontal	N/A
4**	5297.750	96.18	-5.52	--	--	AV	176.00	200	Horizontal	N/A
5	7591.000	54.78	-0.74	74.0	19.22	Peak	4.00	200	Horizontal	Pass
5**	7591.000	44.68	-0.74	54.0	9.32	AV	4.00	200	Horizontal	Pass
6	12368.338	53.03	0.58	74.0	20.97	Peak	302.00	100	Horizontal	Pass
6**	12368.338	44.02	0.58	54.0	9.98	AV	302.00	100	Horizontal	Pass

## 11ac20, U-NII-2A, 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	1592.500	39.54	-19.97	74.0	34.46	Peak	231.00	200	Vertical	Pass
1**	1592.500	28.00	-19.97	54.0	26.00	AV	231.00	200	Vertical	Pass
2	2807.200	43.07	-13.12	74.0	30.93	Peak	332.00	100	Vertical	Pass
2**	2807.200	33.28	-13.12	54.0	20.72	AV	332.00	100	Vertical	Pass
3	4338.250	47.93	-6.16	74.0	26.07	Peak	150.00	100	Vertical	Pass
3**	4338.250	38.73	-6.16	54.0	15.27	AV	150.00	100	Vertical	Pass
4	5297.750	94.38	-5.52	--	--	Peak	264.00	400	Vertical	N/A
4**	5297.750	87.96	-5.52	--	--	AV	264.00	400	Vertical	N/A
5	7492.500	54.08	-0.41	74.0	19.92	Peak	223.00	150	Vertical	Pass
5**	7492.500	45.09	-0.41	54.0	8.91	AV	223.00	150	Vertical	Pass
6	12574.488	52.15	1.39	74.0	21.85	Peak	266.00	400	Vertical	Pass
6**	12574.488	43.08	1.39	54.0	10.92	AV	266.00	400	Vertical	Pass

## 11ac20, U-NII-2A, 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	1594.100	38.91	-20.00	74.0	35.09	Peak	340.00	300	Horizontal	Pass
1**	1594.100	27.77	-20.00	54.0	26.23	AV	340.00	300	Horizontal	Pass
2	2889.700	43.34	-12.16	74.0	30.66	Peak	250.00	300	Horizontal	Pass
2**	2889.700	34.41	-12.16	54.0	19.59	AV	250.00	300	Horizontal	Pass
3	4339.500	47.72	-6.24	74.0	26.28	Peak	90.00	150	Horizontal	Pass
3**	4339.500	39.11	-6.24	54.0	14.89	AV	90.00	150	Horizontal	Pass
4	5318.750	104.31	-5.68	--	--	Peak	172.00	400	Horizontal	N/A
4**	5318.750	97.68	-5.68	--	--	AV	172.00	400	Horizontal	N/A
5	7479.250	54.29	-1.00	74.0	19.71	Peak	0.00	150	Horizontal	Pass
5**	7479.250	44.85	-1.00	54.0	9.15	AV	0.00	150	Horizontal	Pass
6	12413.700	52.46	0.47	74.0	21.54	Peak	234.00	200	Horizontal	Pass
6**	12413.700	42.21	0.47	54.0	11.79	AV	234.00	200	Horizontal	Pass

## 11ac20, U-NII-2A, 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	1597.500	39.88	-20.01	74.0	34.12	Peak	222.00	400	Vertical	Pass
1**	1597.500	28.21	-20.01	54.0	25.79	AV	222.00	400	Vertical	Pass
2	2805.400	43.60	-13.05	74.0	30.40	Peak	112.00	300	Vertical	Pass
2**	2805.400	34.47	-13.05	54.0	19.53	AV	112.00	300	Vertical	Pass
3	4337.500	47.43	-6.10	74.0	26.57	Peak	38.00	200	Vertical	Pass
3**	4337.500	38.77	-6.10	54.0	15.23	AV	38.00	200	Vertical	Pass
4	5315.500	95.05	-5.72	--	--	Peak	266.00	100	Vertical	N/A
4**	5315.500	87.04	-5.72	--	--	AV	266.00	100	Vertical	N/A
5	7598.750	53.92	-0.36	74.0	20.08	Peak	87.00	100	Vertical	Pass
5**	7598.750	45.14	-0.36	54.0	8.86	AV	87.00	100	Vertical	Pass
6	12611.063	52.25	1.06	74.0	21.75	Peak	0.00	200	Vertical	Pass
6**	12611.063	44.65	1.06	54.0	9.35	AV	0.00	200	Vertical	Pass

## 11ac40, U-NII-2A, 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	1465.000	42.99	-19.79	74.0	31.01	Peak	230.00	300	Horizontal	Pass
1**	1465.000	27.25	-19.79	54.0	26.75	AV	230.00	300	Horizontal	Pass
2	2722.000	43.91	-11.92	74.0	30.09	Peak	179.00	100	Horizontal	Pass
2**	2722.000	34.05	-11.92	54.0	19.95	AV	179.00	100	Horizontal	Pass
3	4373.000	47.56	-7.06	74.0	26.44	Peak	113.00	150	Horizontal	Pass
3**	4373.000	38.03	-7.06	54.0	15.97	AV	113.00	150	Horizontal	Pass
4	5274.500	100.71	-4.96	--	--	Peak	163.00	400	Horizontal	N/A
4**	5274.500	93.52	-4.96	--	--	AV	163.00	400	Horizontal	N/A
5	7496.750	54.12	-0.55	74.0	19.88	Peak	204.00	100	Horizontal	Pass
5**	7496.750	45.68	-0.55	54.0	8.32	AV	204.00	100	Horizontal	Pass
6	12577.575	52.75	1.36	74.0	21.25	Peak	193.00	300	Horizontal	Pass
6**	12577.575	44.12	1.36	54.0	9.88	AV	193.00	300	Horizontal	Pass

## 11ac40, U-NII-2A, 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	1592.700	39.72	-19.98	74.0	34.28	Peak	2.00	200	Vertical	Pass
1**	1592.700	27.39	-19.98	54.0	26.61	AV	2.00	200	Vertical	Pass
2	2733.600	43.46	-11.71	74.0	30.54	Peak	62.00	300	Vertical	Pass
2**	2733.600	34.09	-11.71	54.0	19.91	AV	62.00	300	Vertical	Pass
3	4341.000	48.18	-6.30	74.0	25.82	Peak	82.00	100	Vertical	Pass
3**	4341.000	38.53	-6.30	54.0	15.47	AV	82.00	100	Vertical	Pass
4	5273.250	93.24	-4.97	--	--	Peak	264.00	300	Vertical	N/A
4**	5273.250	85.59	-4.97	--	--	AV	264.00	300	Vertical	N/A
5	7510.000	56.17	-1.29	74.0	17.83	Peak	57.00	200	Vertical	Pass
5**	7510.000	45.23	-1.29	54.0	8.77	AV	57.00	200	Vertical	Pass
6	12604.888	52.87	1.11	74.0	21.13	Peak	70.00	400	Vertical	Pass
6**	12604.888	43.77	1.11	54.0	10.23	AV	70.00	400	Vertical	Pass

## 11ac40, U-NII-2A, 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	1459.400	43.08	-19.71	74.0	30.92	Peak	237.00	400	Horizontal	Pass
1**	1459.400	27.05	-19.71	54.0	26.95	AV	237.00	400	Horizontal	Pass
2	2728.000	43.56	-11.50	74.0	30.44	Peak	1.00	400	Horizontal	Pass
2**	2728.000	33.76	-11.50	54.0	20.24	AV	1.00	400	Horizontal	Pass
3	4332.250	47.46	-6.06	74.0	26.54	Peak	309.00	200	Horizontal	Pass
3**	4332.250	37.85	-6.06	54.0	16.15	AV	309.00	200	Horizontal	Pass
4	5312.250	100.74	-5.70	--	--	Peak	172.00	300	Horizontal	N/A
4**	5312.250	92.74	-5.70	--	--	AV	172.00	300	Horizontal	N/A
5	7490.500	55.19	-0.32	74.0	18.81	Peak	100.00	150	Horizontal	Pass
5**	7490.500	45.78	-0.32	54.0	8.22	AV	100.00	150	Horizontal	Pass
6	12272.625	52.61	0.50	74.0	21.39	Peak	60.00	400	Horizontal	Pass
6**	12272.625	43.26	0.50	54.0	10.74	AV	60.00	400	Horizontal	Pass

## 11ac40, U-NII-2A, 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	1594.600	39.10	-19.98	74.0	34.90	Peak	231.00	400	Vertical	Pass
1**	1594.600	28.72	-19.98	54.0	25.28	AV	231.00	400	Vertical	Pass
2	2880.300	42.93	-12.28	74.0	31.07	Peak	140.00	200	Vertical	Pass
2**	2880.300	33.19	-12.28	54.0	20.81	AV	140.00	200	Vertical	Pass
3	4354.250	46.95	-6.60	74.0	27.05	Peak	360.00	100	Vertical	Pass
3**	4354.250	38.42	-6.60	54.0	15.58	AV	360.00	100	Vertical	Pass
4	5311.500	93.02	-5.71	--	--	Peak	82.00	100	Vertical	N/A
4**	5311.500	84.46	-5.71	--	--	AV	82.00	100	Vertical	N/A
5	7494.250	54.06	-0.41	74.0	19.94	Peak	115.00	150	Vertical	Pass
5**	7494.250	44.98	-0.41	54.0	9.02	AV	115.00	150	Vertical	Pass
6	12431.275	52.55	0.67	74.0	21.45	Peak	199.00	200	Vertical	Pass
6**	12431.275	42.90	0.67	54.0	11.10	AV	199.00	200	Vertical	Pass

## 11ac80, U-NII-2A, 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	1463.600	41.01	-19.76	74.0	32.99	Peak	222.00	100	Horizontal	Pass
1**	1463.600	27.81	-19.76	54.0	26.19	AV	222.00	100	Horizontal	Pass
2	2845.300	45.04	-12.29	74.0	28.96	Peak	131.00	100	Horizontal	Pass
2**	2845.300	33.65	-12.29	54.0	20.35	AV	131.00	100	Horizontal	Pass
3	4348.750	46.98	-6.55	74.0	27.02	Peak	5.00	200	Horizontal	Pass
3**	4348.750	38.57	-6.55	54.0	15.43	AV	5.00	200	Horizontal	Pass
4	5282.750	98.73	-5.10	--	--	Peak	171.00	400	Horizontal	N/A
4**	5282.750	91.82	-5.10	--	--	AV	171.00	400	Horizontal	N/A
5	7500.250	55.90	-0.75	74.0	18.10	Peak	212.00	200	Horizontal	Pass
5**	7500.250	45.24	-0.75	54.0	8.76	AV	212.00	200	Horizontal	Pass
6	12572.588	53.15	1.40	74.0	20.85	Peak	190.00	100	Horizontal	Pass
6**	12572.588	44.05	1.40	54.0	9.95	AV	190.00	100	Horizontal	Pass

## 11ac80, U-NII-2A, 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	1495.300	38.87	-19.47	74.0	35.13	Peak	238.00	200	Vertical	Pass
1**	1495.300	27.83	-19.47	54.0	26.17	AV	238.00	200	Vertical	Pass
2	2789.300	46.53	-12.65	74.0	27.47	Peak	289.00	400	Vertical	Pass
2**	2789.300	36.53	-12.65	54.0	17.47	AV	289.00	400	Vertical	Pass
3	4313.500	47.78	-6.02	74.0	26.22	Peak	95.00	100	Vertical	Pass
3**	4313.500	37.92	-6.02	54.0	16.08	AV	95.00	100	Vertical	Pass
4	5277.750	89.79	-4.98	--	--	Peak	268.00	200	Vertical	N/A
4**	5277.750	82.43	-4.98	--	--	AV	268.00	200	Vertical	N/A
5	7489.000	54.42	-0.33	74.0	19.58	Peak	218.00	100	Vertical	Pass
5**	7489.000	44.97	-0.33	54.0	9.03	AV	218.00	100	Vertical	Pass
6	12583.987	52.42	1.30	74.0	21.58	Peak	0.00	300	Vertical	Pass
6**	12583.987	43.37	1.30	54.0	10.63	AV	0.00	300	Vertical	Pass

## 11a, U-NII-2C, 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	1464.600	41.75	-19.78	74.0	32.25	Peak	234.00	200	Horizontal	Pass
1**	1464.600	28.44	-19.78	54.0	25.56	AV	234.00	200	Horizontal	Pass
2	2804.000	43.36	-12.99	74.0	30.64	Peak	123.00	200	Horizontal	Pass
2**	2804.000	33.28	-12.99	54.0	20.72	AV	123.00	200	Horizontal	Pass
3	4321.750	47.36	-5.93	74.0	26.64	Peak	344.00	100	Horizontal	Pass
3**	4321.750	38.35	-5.93	54.0	15.65	AV	344.00	100	Horizontal	Pass
4	5502.250	100.54	-4.85	--	--	Peak	162.00	400	Horizontal	N/A
4**	5502.250	93.37	-4.85	--	--	AV	162.00	400	Horizontal	N/A
5	7567.250	53.92	-1.64	74.0	20.08	Peak	270.00	200	Horizontal	Pass
5**	7567.250	44.52	-1.64	54.0	9.48	AV	270.00	200	Horizontal	Pass
6	12615.576	52.85	1.02	74.0	21.15	Peak	289.00	200	Horizontal	Pass
6**	12615.576	42.78	1.02	54.0	11.22	AV	289.00	200	Horizontal	Pass

## 11a, U-NII-2C, 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	1593.900	38.30	-20.01	74.0	35.70	Peak	360.00	400	Vertical	Pass
1**	1593.900	28.48	-20.01	54.0	25.52	AV	360.00	400	Vertical	Pass
2	2783.800	43.66	-12.95	74.0	30.34	Peak	50.00	300	Vertical	Pass
2**	2783.800	34.19	-12.95	54.0	19.81	AV	50.00	300	Vertical	Pass
3	4339.000	47.22	-6.21	74.0	26.78	Peak	63.00	200	Vertical	Pass
3**	4339.000	39.28	-6.21	54.0	14.72	AV	63.00	200	Vertical	Pass
4	5498.250	94.24	-4.81	--	--	Peak	88.00	400	Vertical	N/A
4**	5498.250	86.71	-4.81	--	--	AV	88.00	400	Vertical	N/A
5	7491.750	54.79	-0.38	74.0	19.21	Peak	147.00	200	Vertical	Pass
5**	7491.750	45.58	-0.38	54.0	8.42	AV	147.00	200	Vertical	Pass
6	12402.062	53.26	0.33	74.0	20.74	Peak	51.00	400	Vertical	Pass
6**	12402.062	43.10	0.33	54.0	10.90	AV	51.00	400	Vertical	Pass

## 11a, U-NII-2C, 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	1493.700	40.09	-19.42	74.0	33.91	Peak	235.00	150	Horizontal	Pass
1**	1493.700	28.02	-19.42	54.0	25.98	AV	235.00	150	Horizontal	Pass
2	2852.100	43.50	-12.16	74.0	30.50	Peak	360.00	150	Horizontal	Pass
2**	2852.100	34.36	-12.16	54.0	19.64	AV	360.00	150	Horizontal	Pass
3	4336.000	47.41	-6.11	74.0	26.59	Peak	269.00	150	Horizontal	Pass
3**	4336.000	38.76	-6.11	54.0	15.24	AV	269.00	150	Horizontal	Pass
4	5577.750	98.30	-5.24	--	--	Peak	177.00	150	Horizontal	N/A
4**	5577.750	90.66	-5.24	--	--	AV	177.00	150	Horizontal	N/A
5	7485.750	54.86	-0.42	74.0	19.14	Peak	94.00	150	Horizontal	Pass
5**	7485.750	45.17	-0.42	54.0	8.83	AV	94.00	150	Horizontal	Pass
6	12284.262	52.80	0.56	74.0	21.20	Peak	102.00	150	Horizontal	Pass
6**	12284.262	42.51	0.56	54.0	11.49	AV	102.00	150	Horizontal	Pass

## 11a, U-NII-2C, 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	1464.400	40.26	-19.78	74.0	33.74	Peak	266.00	100	Vertical	Pass
1**	1464.400	27.93	-19.78	54.0	26.07	AV	266.00	100	Vertical	Pass
2	2750.400	43.46	-12.90	74.0	30.54	Peak	82.00	300	Vertical	Pass
2**	2750.400	33.04	-12.90	54.0	20.96	AV	82.00	300	Vertical	Pass
3	4343.750	47.17	-6.27	74.0	26.83	Peak	136.00	100	Vertical	Pass
3**	4343.750	38.36	-6.27	54.0	15.64	AV	136.00	100	Vertical	Pass
4	5577.250	92.97	-5.25	--	--	Peak	87.00	200	Vertical	N/A
4**	5577.250	85.72	-5.25	--	--	AV	87.00	200	Vertical	N/A
5	7513.250	54.67	-1.33	74.0	19.33	Peak	260.00	200	Vertical	Pass
5**	7513.250	44.70	-1.33	54.0	9.30	AV	260.00	200	Vertical	Pass
6	12549.075	52.88	1.59	74.0	21.12	Peak	259.00	400	Vertical	Pass
6**	12549.075	44.10	1.59	54.0	9.90	AV	259.00	400	Vertical	Pass

## 11a, U-NII-2C, 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	1463.700	38.74	-19.76	74.0	35.26	Peak	312.00	300	Horizontal	Pass
1**	1463.700	28.34	-19.76	54.0	25.66	AV	312.00	300	Horizontal	Pass
2	2859.600	43.41	-12.36	74.0	30.59	Peak	26.00	150	Horizontal	Pass
2**	2859.600	34.35	-12.36	54.0	19.65	AV	26.00	150	Horizontal	Pass
3	4343.250	47.45	-6.26	74.0	26.55	Peak	218.00	300	Horizontal	Pass
3**	4343.250	38.46	-6.26	54.0	15.54	AV	218.00	300	Horizontal	Pass
4	5701.500	96.71	-5.25	--	--	Peak	132.00	100	Horizontal	N/A
4**	5701.500	89.50	-5.25	--	--	AV	132.00	100	Horizontal	N/A
5	7510.750	54.65	-1.31	74.0	19.35	Peak	0.00	200	Horizontal	Pass
5**	7510.750	44.61	-1.31	54.0	9.39	AV	0.00	200	Horizontal	Pass
6	12443.150	52.67	0.81	74.0	21.33	Peak	192.00	300	Horizontal	Pass
6**	12443.150	42.76	0.81	54.0	11.24	AV	192.00	300	Horizontal	Pass

## 11a, U-NII-2C, 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	1460.100	39.13	-19.70	74.0	34.87	Peak	299.00	150	Vertical	Pass
1**	1460.100	27.38	-19.70	54.0	26.62	AV	299.00	150	Vertical	Pass
2	2721.500	43.34	-11.98	74.0	30.66	Peak	360.00	100	Vertical	Pass
2**	2721.500	34.15	-11.98	54.0	19.85	AV	360.00	100	Vertical	Pass
3	4368.500	47.39	-6.86	74.0	26.61	Peak	286.00	200	Vertical	Pass
3**	4368.500	38.37	-6.86	54.0	15.63	AV	286.00	200	Vertical	Pass
4	5698.000	93.14	-5.17	--	--	Peak	84.00	150	Vertical	N/A
4**	5698.000	84.79	-5.17	--	--	AV	84.00	150	Vertical	N/A
5	7487.000	54.23	-0.36	74.0	19.77	Peak	76.00	300	Vertical	Pass
5**	7487.000	45.62	-0.36	54.0	8.38	AV	76.00	300	Vertical	Pass
6	12367.863	53.35	0.58	74.0	20.65	Peak	152.00	150	Vertical	Pass
6**	12367.863	43.14	0.58	54.0	10.86	AV	152.00	150	Vertical	Pass



## 11n20, U-NII-2C, 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	1599.900	39.13	-20.07	74.0	34.87	Peak	358.00	150	Horizontal	Pass
1**	1599.900	28.18	-20.07	54.0	25.82	AV	358.00	150	Horizontal	Pass
2	2886.800	43.56	-12.17	74.0	30.44	Peak	46.00	100	Horizontal	Pass
2**	2886.800	34.19	-12.17	54.0	19.81	AV	46.00	100	Horizontal	Pass
3	4339.500	47.50	-6.24	74.0	26.50	Peak	277.00	200	Horizontal	Pass
3**	4339.500	38.42	-6.24	54.0	15.58	AV	277.00	200	Horizontal	Pass
4	5498.750	100.83	-4.78	--	--	Peak	178.00	150	Horizontal	N/A
4**	5498.750	92.53	-4.78	--	--	AV	178.00	150	Horizontal	N/A
5	7524.250	54.58	-0.96	74.0	19.42	Peak	310.00	100	Horizontal	Pass
5**	7524.250	44.55	-0.96	54.0	9.45	AV	310.00	100	Horizontal	Pass
6	12430.800	52.53	0.66	74.0	21.47	Peak	261.00	200	Horizontal	Pass
6**	12430.800	42.95	0.66	54.0	11.05	AV	261.00	200	Horizontal	Pass

## 11n20, U-NII-2C, 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	1466.200	42.03	-19.82	74.0	31.97	Peak	294.00	400	Vertical	Pass
1**	1466.200	28.20	-19.82	54.0	25.80	AV	294.00	400	Vertical	Pass
2	2873.800	43.67	-12.41	74.0	30.33	Peak	6.00	300	Vertical	Pass
2**	2873.800	34.29	-12.41	54.0	19.71	AV	6.00	300	Vertical	Pass
3	3891.750	47.33	-8.39	74.0	26.67	Peak	213.00	150	Vertical	Pass
3**	3891.750	36.58	-8.39	54.0	17.42	AV	213.00	150	Vertical	Pass
4	5502.000	93.64	-4.84	--	--	Peak	87.00	100	Vertical	N/A
4**	5502.000	85.97	-4.84	--	--	AV	87.00	100	Vertical	N/A
5	7600.750	54.00	-0.40	74.0	20.00	Peak	196.00	200	Vertical	Pass
5**	7600.750	45.31	-0.40	54.0	8.69	AV	196.00	200	Vertical	Pass
6	12588.262	52.90	1.26	74.0	21.10	Peak	174.00	200	Vertical	Pass
6**	12588.262	42.85	1.26	54.0	11.15	AV	174.00	200	Vertical	Pass

## 11n20, U-NII-2C, 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	1597.500	39.06	-20.01	74.0	34.94	Peak	359.00	300	Horizontal	Pass
1**	1597.500	28.76	-20.01	54.0	25.24	AV	359.00	300	Horizontal	Pass
2	2856.800	43.06	-12.34	74.0	30.94	Peak	360.00	200	Horizontal	Pass
2**	2856.800	35.09	-12.34	54.0	18.91	AV	360.00	200	Horizontal	Pass
3	4306.500	47.23	-6.36	74.0	26.77	Peak	323.00	150	Horizontal	Pass
3**	4306.500	38.12	-6.36	54.0	15.88	AV	323.00	150	Horizontal	Pass
4	5581.000	98.34	-5.25	--	--	Peak	172.00	300	Horizontal	N/A
4**	5581.000	90.88	-5.25	--	--	AV	172.00	300	Horizontal	N/A
5	7547.750	54.22	-0.74	74.0	19.78	Peak	238.00	100	Horizontal	Pass
5**	7547.750	45.31	-0.74	54.0	8.69	AV	238.00	100	Horizontal	Pass
6	12583.037	52.86	1.31	74.0	21.14	Peak	169.00	200	Horizontal	Pass
6**	12583.037	44.20	1.31	54.0	9.80	AV	169.00	200	Horizontal	Pass

## 11n20, U-NII-2C, 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	1496.200	38.16	-19.50	74.0	35.84	Peak	68.00	150	Vertical	Pass
1**	1496.200	29.05	-19.50	54.0	24.95	AV	68.00	150	Vertical	Pass
2	2725.100	43.75	-11.69	74.0	30.25	Peak	180.00	100	Vertical	Pass
2**	2725.100	33.94	-11.69	54.0	20.06	AV	180.00	100	Vertical	Pass
3	4354.500	47.42	-6.61	74.0	26.58	Peak	241.00	200	Vertical	Pass
3**	4354.500	38.13	-6.61	54.0	15.87	AV	241.00	200	Vertical	Pass
4	5580.750	92.23	-5.25	--	--	Peak	80.00	100	Vertical	N/A
4**	5580.750	84.53	-5.25	--	--	AV	80.00	100	Vertical	N/A
5	7541.250	54.31	-0.23	74.0	19.69	Peak	96.00	200	Vertical	Pass
5**	7541.250	45.99	-0.23	54.0	8.01	AV	96.00	200	Vertical	Pass
6	12365.963	52.15	0.60	74.0	21.85	Peak	350.00	300	Vertical	Pass
6**	12365.963	43.56	0.60	54.0	10.44	AV	350.00	300	Vertical	Pass

## 11n20, U-NII-2C, 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	1499.100	38.28	-19.50	74.0	35.72	Peak	218.00	100	Horizontal	Pass
1**	1499.100	30.41	-19.50	54.0	23.59	AV	218.00	100	Horizontal	Pass
2	2727.000	43.43	-11.58	74.0	30.57	Peak	360.00	300	Horizontal	Pass
2**	2727.000	33.64	-11.58	54.0	20.36	AV	360.00	300	Horizontal	Pass
3	4340.750	47.40	-6.29	74.0	26.60	Peak	253.00	100	Horizontal	Pass
3**	4340.750	38.83	-6.29	54.0	15.17	AV	253.00	100	Horizontal	Pass
4	5698.500	97.11	-5.19	--	--	Peak	128.00	400	Horizontal	N/A
4**	5698.500	89.34	-5.19	--	--	AV	128.00	400	Horizontal	N/A
5	7494.000	54.44	-0.41	74.0	19.56	Peak	277.00	100	Horizontal	Pass
5**	7494.000	46.52	-0.41	54.0	7.48	AV	277.00	100	Horizontal	Pass
6	12307.299	52.47	0.67	74.0	21.53	Peak	197.00	400	Horizontal	Pass
6**	12307.299	42.80	0.67	54.0	11.20	AV	197.00	400	Horizontal	Pass

## 11n20, U-NII-2C, 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	1465.100	41.21	-19.79	74.0	32.79	Peak	290.00	200	Vertical	Pass
1**	1465.100	32.64	-19.79	54.0	21.36	AV	290.00	200	Vertical	Pass
2	2869.400	43.43	-12.43	74.0	30.57	Peak	53.00	100	Vertical	Pass
2**	2869.400	33.57	-12.43	54.0	20.43	AV	53.00	100	Vertical	Pass
3	4352.750	47.68	-6.61	74.0	26.32	Peak	56.00	100	Vertical	Pass
3**	4352.750	38.21	-6.61	54.0	15.79	AV	56.00	100	Vertical	Pass
4	5702.000	92.14	-5.25	--	--	Peak	89.00	400	Vertical	N/A
4**	5702.000	85.01	-5.25	--	--	AV	89.00	400	Vertical	N/A
5	7491.500	54.42	-0.36	74.0	19.58	Peak	355.00	100	Vertical	Pass
5**	7491.500	45.18	-0.36	54.0	8.82	AV	355.00	100	Vertical	Pass
6	12551.925	52.20	1.59	74.0	21.80	Peak	284.00	300	Vertical	Pass
6**	12551.925	44.21	1.59	54.0	9.79	AV	284.00	300	Vertical	Pass

## 11n40, U-NII-2C, 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	1464.600	39.18	-19.78	74.0	34.82	Peak	222.00	300	Horizontal	Pass
1**	1464.600	30.36	-19.78	54.0	23.64	AV	222.00	300	Horizontal	Pass
2	2771.200	43.53	-12.86	74.0	30.47	Peak	272.00	300	Horizontal	Pass
2**	2771.200	33.58	-12.86	54.0	20.42	AV	272.00	300	Horizontal	Pass
3	4308.750	47.80	-6.30	74.0	26.20	Peak	298.00	200	Horizontal	Pass
3**	4308.750	39.00	-6.30	54.0	15.00	AV	298.00	200	Horizontal	Pass
4	5507.750	97.25	-5.04	--	--	Peak	181.00	200	Horizontal	N/A
4**	5507.750	90.87	-5.04	--	--	AV	181.00	200	Horizontal	N/A
5	7549.750	54.12	-1.07	74.0	19.88	Peak	122.00	100	Horizontal	Pass
5**	7549.750	45.08	-1.07	54.0	8.92	AV	122.00	100	Horizontal	Pass
6	12573.776	52.82	1.39	74.0	21.18	Peak	338.00	100	Horizontal	Pass
6**	12573.776	43.29	1.39	54.0	10.71	AV	338.00	100	Horizontal	Pass

## 11n40, U-NII-2C, 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	1595.200	39.12	-19.95	74.0	34.88	Peak	317.00	200	Vertical	Pass
1**	1595.200	30.08	-19.95	54.0	23.92	AV	317.00	200	Vertical	Pass
2	2857.000	43.96	-12.34	74.0	30.04	Peak	108.00	400	Vertical	Pass
2**	2857.000	34.00	-12.34	54.0	20.00	AV	108.00	400	Vertical	Pass
3	4311.500	47.13	-6.15	74.0	26.87	Peak	156.00	150	Vertical	Pass
3**	4311.500	38.19	-6.15	54.0	15.81	AV	156.00	150	Vertical	Pass
4	5512.500	91.63	-5.24	--	--	Peak	90.00	300	Vertical	N/A
4**	5512.500	84.34	-5.24	--	--	AV	90.00	300	Vertical	N/A
5	7497.250	53.96	-0.59	74.0	20.04	Peak	298.00	150	Vertical	Pass
5**	7497.250	45.49	-0.59	54.0	8.51	AV	298.00	150	Vertical	Pass
6	12570.925	52.41	1.42	74.0	21.59	Peak	250.00	400	Vertical	Pass
6**	12570.925	44.18	1.42	54.0	9.82	AV	250.00	400	Vertical	Pass

## 11n40, U-NII-2C, 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	1501.200	38.33	-19.50	74.0	35.67	Peak	222.00	400	Horizontal	Pass
1**	1501.200	28.55	-19.50	54.0	25.45	AV	222.00	400	Horizontal	Pass
2	2888.900	43.41	-12.14	74.0	30.59	Peak	78.00	300	Horizontal	Pass
2**	2888.900	34.19	-12.14	54.0	19.81	AV	78.00	300	Horizontal	Pass
3	3727.250	46.39	-8.07	74.0	27.61	Peak	44.00	150	Horizontal	Pass
3**	3727.250	38.66	-8.07	54.0	15.34	AV	44.00	150	Horizontal	Pass
4	5591.750	96.08	-5.26	--	--	Peak	169.00	100	Horizontal	N/A
4**	5591.750	87.36	-5.26	--	--	AV	169.00	100	Horizontal	N/A
5	7496.000	54.07	-0.49	74.0	19.93	Peak	338.00	100	Horizontal	Pass
5**	7496.000	45.56	-0.49	54.0	8.44	AV	338.00	100	Horizontal	Pass
6	12243.888	52.52	0.27	74.0	21.48	Peak	0.00	300	Horizontal	Pass
6**	12243.888	42.72	0.27	54.0	11.28	AV	0.00	300	Horizontal	Pass

## 11n40, U-NII-2C, 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	1461.300	38.58	-19.73	74.0	35.42	Peak	301.00	200	Vertical	Pass
1**	1461.300	26.99	-19.73	54.0	27.01	AV	301.00	200	Vertical	Pass
2	2835.500	43.08	-12.53	74.0	30.92	Peak	156.00	100	Vertical	Pass
2**	2835.500	33.29	-12.53	54.0	20.71	AV	156.00	100	Vertical	Pass
3	4339.750	47.51	-6.25	74.0	26.49	Peak	360.00	200	Vertical	Pass
3**	4339.750	38.07	-6.25	54.0	15.93	AV	360.00	200	Vertical	Pass
4	5592.250	89.05	-5.27	--	--	Peak	82.00	400	Vertical	N/A
4**	5592.250	81.33	-5.27	--	--	AV	82.00	400	Vertical	N/A
5	7485.250	54.89	-0.45	74.0	19.11	Peak	306.00	200	Vertical	Pass
5**	7485.250	45.11	-0.45	54.0	8.89	AV	306.00	200	Vertical	Pass
6	12335.325	52.60	0.71	74.0	21.40	Peak	22.00	300	Vertical	Pass
6**	12335.325	42.96	0.71	54.0	11.04	AV	22.00	300	Vertical	Pass

## 11n40, U-NII-2C, 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	1456.200	38.43	-19.71	74.0	35.57	Peak	242.00	300	Horizontal	Pass
1**	1456.200	28.57	-19.71	54.0	25.43	AV	242.00	300	Horizontal	Pass
2	2854.000	43.69	-12.28	74.0	30.31	Peak	189.00	200	Horizontal	Pass
2**	2854.000	34.20	-12.28	54.0	19.80	AV	189.00	200	Horizontal	Pass
3	4338.250	47.48	-6.16	74.0	26.52	Peak	312.00	150	Horizontal	Pass
3**	4338.250	38.35	-6.16	54.0	15.65	AV	312.00	150	Horizontal	Pass
4	5672.250	94.40	-5.08	--	--	Peak	174.00	200	Horizontal	N/A
4**	5672.250	86.87	-5.08	--	--	AV	174.00	200	Horizontal	N/A
5	7537.000	54.32	-0.28	74.0	19.68	Peak	238.00	100	Horizontal	Pass
5**	7537.000	44.34	-0.28	54.0	9.66	AV	238.00	100	Horizontal	Pass
6	12298.512	52.58	0.65	74.0	21.42	Peak	151.00	300	Horizontal	Pass
6**	12298.512	43.36	0.65	54.0	10.64	AV	151.00	300	Horizontal	Pass

## 11n40, U-NII-2C, 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	1464.900	37.82	-19.79	74.0	36.18	Peak	295.00	100	Vertical	Pass
1**	1464.900	28.63	-19.79	54.0	25.37	AV	295.00	100	Vertical	Pass
2	2861.000	43.79	-12.38	74.0	30.21	Peak	320.00	100	Vertical	Pass
2**	2861.000	33.75	-12.38	54.0	20.25	AV	320.00	100	Vertical	Pass
3	4335.000	47.33	-6.14	74.0	26.67	Peak	290.00	100	Vertical	Pass
3**	4335.000	38.44	-6.14	54.0	15.56	AV	290.00	100	Vertical	Pass
4	5666.250	89.26	-5.07	--	--	Peak	92.00	200	Vertical	N/A
4**	5666.250	81.39	-5.07	--	--	AV	92.00	200	Vertical	N/A
5	7487.750	54.08	-0.35	74.0	19.92	Peak	120.00	150	Vertical	Pass
5**	7487.750	45.65	-0.35	54.0	8.35	AV	120.00	150	Vertical	Pass
6	12551.451	52.77	1.60	74.0	21.23	Peak	329.00	100	Vertical	Pass
6**	12551.451	43.37	1.60	54.0	10.63	AV	329.00	100	Vertical	Pass

## 11ac20, U-NII-2C, 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	1494.300	37.95	-19.43	74.0	36.05	Peak	217.00	400	Horizontal	Pass
1**	1494.300	28.57	-19.43	54.0	25.43	AV	217.00	400	Horizontal	Pass
2	2842.000	43.14	-12.43	74.0	30.86	Peak	0.00	300	Horizontal	Pass
2**	2842.000	33.51	-12.43	54.0	20.49	AV	0.00	300	Horizontal	Pass
3	4333.250	47.42	-6.10	74.0	26.58	Peak	72.00	150	Horizontal	Pass
3**	4333.250	38.07	-6.10	54.0	15.93	AV	72.00	150	Horizontal	Pass
4	5498.000	99.69	-4.82	--	--	Peak	173.00	300	Horizontal	N/A
4**	5498.000	91.86	-4.82	--	--	AV	173.00	300	Horizontal	N/A
5	7588.750	54.97	-0.89	74.0	19.03	Peak	34.00	100	Horizontal	Pass
5**	7588.750	44.64	-0.89	54.0	9.36	AV	34.00	100	Horizontal	Pass
6	12424.388	52.74	0.59	74.0	21.26	Peak	224.00	300	Horizontal	Pass
6**	12424.388	43.72	0.59	54.0	10.28	AV	224.00	300	Horizontal	Pass

## 11ac20, U-NII-2C, 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	1459.500	37.44	-19.70	74.0	36.56	Peak	278.00	100	Vertical	Pass
1**	1459.500	27.94	-19.70	54.0	26.06	AV	278.00	100	Vertical	Pass
2	2787.000	42.82	-12.76	74.0	31.18	Peak	94.00	150	Vertical	Pass
2**	2787.000	33.09	-12.76	54.0	20.91	AV	94.00	150	Vertical	Pass
3	4353.250	47.14	-6.61	74.0	26.86	Peak	140.00	100	Vertical	Pass
3**	4353.250	38.61	-6.61	54.0	15.39	AV	140.00	100	Vertical	Pass
4	5502.250	93.42	-4.85	--	--	Peak	89.00	400	Vertical	N/A
4**	5502.250	85.66	-4.85	--	--	AV	89.00	400	Vertical	N/A
5	7490.500	54.39	-0.32	74.0	19.61	Peak	249.00	100	Vertical	Pass
5**	7490.500	44.89	-0.32	54.0	9.11	AV	249.00	100	Vertical	Pass
6	12277.375	52.51	0.52	74.0	21.49	Peak	163.00	100	Vertical	Pass
6**	12277.375	42.80	0.52	54.0	11.20	AV	163.00	100	Vertical	Pass

## 11ac20, U-NII-2C, 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	1594.700	38.77	-19.97	74.0	35.23	Peak	235.00	300	Horizontal	Pass
1**	1594.700	28.20	-19.97	54.0	25.80	AV	235.00	300	Horizontal	Pass
2	2873.900	43.45	-12.40	74.0	30.55	Peak	351.00	300	Horizontal	Pass
2**	2873.900	33.64	-12.40	54.0	20.36	AV	351.00	300	Horizontal	Pass
3	4358.500	47.38	-6.59	74.0	26.62	Peak	80.00	200	Horizontal	Pass
3**	4358.500	38.52	-6.59	54.0	15.48	AV	80.00	200	Horizontal	Pass
4	5582.250	97.74	-5.21	--	--	Peak	179.00	200	Horizontal	N/A
4**	5582.250	91.05	-5.21	--	--	AV	179.00	200	Horizontal	N/A
5	7493.250	54.15	-0.42	74.0	19.85	Peak	179.00	100	Horizontal	Pass
5**	7493.250	45.07	-0.42	54.0	8.93	AV	179.00	100	Horizontal	Pass
6	12293.763	52.39	0.62	74.0	21.61	Peak	76.00	100	Horizontal	Pass
6**	12293.763	43.04	0.62	54.0	10.96	AV	76.00	100	Horizontal	Pass

## 11ac20, U-NII-2C, 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	1461.700	39.46	-19.74	74.0	34.54	Peak	288.00	400	Vertical	Pass
1**	1461.700	30.43	-19.74	54.0	23.57	AV	288.00	400	Vertical	Pass
2	2869.100	42.75	-12.44	74.0	31.25	Peak	47.00	200	Vertical	Pass
2**	2869.100	34.20	-12.44	54.0	19.80	AV	47.00	200	Vertical	Pass
3	4328.000	47.01	-5.94	74.0	26.99	Peak	288.00	200	Vertical	Pass
3**	4328.000	38.71	-5.94	54.0	15.29	AV	288.00	200	Vertical	Pass
4	5581.750	92.16	-5.22	--	--	Peak	80.00	100	Vertical	N/A
4**	5581.750	84.88	-5.22	--	--	AV	80.00	100	Vertical	N/A
5	7601.250	54.12	-0.42	74.0	19.88	Peak	262.00	100	Vertical	Pass
5**	7601.250	45.31	-0.42	54.0	8.69	AV	262.00	100	Vertical	Pass
6	12580.425	52.28	1.33	74.0	21.72	Peak	113.00	100	Vertical	Pass
6**	12580.425	43.70	1.33	54.0	10.30	AV	113.00	100	Vertical	Pass



## 11ac20, U-NII-2C, 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	1199.800	38.67	-20.19	74.0	35.33	Peak	20.00	150	Horizontal	Pass
1**	1199.800	26.33	-20.19	54.0	27.67	AV	20.00	150	Horizontal	Pass
2	2866.600	43.56	-12.32	74.0	30.44	Peak	46.00	400	Horizontal	Pass
2**	2866.600	34.21	-12.32	54.0	19.79	AV	46.00	400	Horizontal	Pass
3	4360.750	47.62	-6.71	74.0	26.38	Peak	183.00	150	Horizontal	Pass
3**	4360.750	38.68	-6.71	54.0	15.32	AV	183.00	150	Horizontal	Pass
4	5701.000	96.57	-5.24	--	--	Peak	142.00	200	Horizontal	N/A
4**	5701.000	89.27	-5.24	--	--	AV	142.00	200	Horizontal	N/A
5	7498.500	55.14	-0.67	74.0	18.86	Peak	259.00	150	Horizontal	Pass
5**	7498.500	45.62	-0.67	54.0	8.38	AV	259.00	150	Horizontal	Pass
6	12579.237	52.29	1.34	74.0	21.71	Peak	18.00	100	Horizontal	Pass
6**	12579.237	43.71	1.34	54.0	10.29	AV	18.00	100	Horizontal	Pass

## 11ac20, U-NII-2C, 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	1594.500	38.39	-19.98	74.0	35.61	Peak	308.00	400	Vertical	Pass
1**	1594.500	28.12	-19.98	54.0	25.88	AV	308.00	400	Vertical	Pass
2	2870.100	43.42	-12.42	74.0	30.58	Peak	226.00	400	Vertical	Pass
2**	2870.100	34.50	-12.42	54.0	19.50	AV	226.00	400	Vertical	Pass
3	4360.250	47.58	-6.70	74.0	26.42	Peak	45.00	200	Vertical	Pass
3**	4360.250	38.66	-6.70	54.0	15.34	AV	45.00	200	Vertical	Pass
4	5698.500	92.95	-5.19	--	--	Peak	86.00	300	Vertical	N/A
4**	5698.500	86.05	-5.19	--	--	AV	86.00	300	Vertical	N/A
5	7501.250	54.29	-0.81	74.0	19.71	Peak	103.00	100	Vertical	Pass
5**	7501.250	45.39	-0.81	54.0	8.61	AV	103.00	100	Vertical	Pass
6	12580.662	52.71	1.33	74.0	21.29	Peak	295.00	100	Vertical	Pass
6**	12580.662	43.76	1.33	54.0	10.24	AV	295.00	100	Vertical	Pass

## 11ac40, U-NII-2C, 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	1499.900	38.47	-19.48	74.0	35.53	Peak	218.00	200	Horizontal	Pass
1**	1499.900	31.54	-19.48	54.0	22.46	AV	218.00	200	Horizontal	Pass
2	2816.200	43.14	-12.91	74.0	30.86	Peak	80.00	400	Horizontal	Pass
2**	2816.200	33.37	-12.91	54.0	20.63	AV	80.00	400	Horizontal	Pass
3	4359.250	48.18	-6.64	74.0	25.82	Peak	313.00	150	Horizontal	Pass
3**	4359.250	38.39	-6.64	54.0	15.61	AV	313.00	150	Horizontal	Pass
4	5506.250	97.53	-4.97	--	--	Peak	182.00	100	Horizontal	N/A
4**	5506.250	89.21	-4.97	--	--	AV	182.00	100	Horizontal	N/A
5	7500.250	54.92	-0.75	74.0	19.08	Peak	136.00	100	Horizontal	Pass
5**	7500.250	45.27	-0.75	54.0	8.73	AV	136.00	100	Horizontal	Pass
6	12584.937	53.04	1.29	74.0	20.96	Peak	268.00	200	Horizontal	Pass
6**	12584.937	43.46	1.29	54.0	10.54	AV	268.00	200	Horizontal	Pass

## 11ac40, U-NII-2C, 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	1594.100	37.49	-20.00	74.0	36.51	Peak	221.00	300	Vertical	Pass
1**	1594.100	29.72	-20.00	54.0	24.28	AV	221.00	300	Vertical	Pass
2	2733.400	43.42	-11.69	74.0	30.58	Peak	196.00	400	Vertical	Pass
2**	2733.400	33.66	-11.69	54.0	20.34	AV	196.00	400	Vertical	Pass
3	4360.500	47.11	-6.71	74.0	26.89	Peak	312.00	100	Vertical	Pass
3**	4360.500	38.02	-6.71	54.0	15.98	AV	312.00	100	Vertical	Pass
4	5508.500	91.24	-5.08	--	--	Peak	263.00	400	Vertical	N/A
4**	5508.500	83.09	-5.08	--	--	AV	263.00	400	Vertical	N/A
5	7580.000	55.35	-1.43	74.0	18.65	Peak	105.00	200	Vertical	Pass
5**	7580.000	44.96	-1.43	54.0	9.04	AV	105.00	200	Vertical	Pass
6	12456.450	52.19	0.84	74.0	21.81	Peak	213.00	400	Vertical	Pass
6**	12456.450	42.68	0.84	54.0	11.32	AV	213.00	400	Vertical	Pass

## 11ac40, U-NII-2C, 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	1598.100	37.59	-20.03	74.0	36.41	Peak	0.00	400	Horizontal	Pass
1**	1598.100	27.38	-20.03	54.0	26.62	AV	0.00	400	Horizontal	Pass
2	2859.700	43.67	-12.36	74.0	30.33	Peak	89.00	300	Horizontal	Pass
2**	2859.700	34.47	-12.36	54.0	19.53	AV	89.00	300	Horizontal	Pass
3	3726.500	47.34	-8.13	74.0	26.66	Peak	274.00	150	Horizontal	Pass
3**	3726.500	39.08	-8.13	54.0	14.92	AV	274.00	150	Horizontal	Pass
4	5584.750	95.32	-5.22	--	--	Peak	181.00	200	Horizontal	N/A
4**	5584.750	87.86	-5.22	--	--	AV	181.00	200	Horizontal	N/A
5	7498.500	54.06	-0.67	74.0	19.94	Peak	265.00	200	Horizontal	Pass
5**	7498.500	45.89	-0.67	54.0	8.11	AV	265.00	200	Horizontal	Pass
6	12397.312	52.90	0.33	74.0	21.10	Peak	16.00	200	Horizontal	Pass
6**	12397.312	42.89	0.33	54.0	11.11	AV	16.00	200	Horizontal	Pass

## 11ac40, U-NII-2C, 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	1464.500	40.36	-19.78	74.0	33.64	Peak	297.00	100	Vertical	Pass
1**	1464.500	30.30	-19.78	54.0	23.70	AV	297.00	100	Vertical	Pass
2	2780.200	43.03	-13.04	74.0	30.97	Peak	144.00	300	Vertical	Pass
2**	2780.200	32.90	-13.04	54.0	21.10	AV	144.00	300	Vertical	Pass
3	4343.250	47.65	-6.26	74.0	26.35	Peak	120.00	150	Vertical	Pass
3**	4343.250	38.35	-6.26	54.0	15.65	AV	120.00	150	Vertical	Pass
4	5586.250	89.35	-5.24	--	--	Peak	92.00	200	Vertical	N/A
4**	5586.250	81.73	-5.24	--	--	AV	92.00	200	Vertical	N/A
5	7495.250	54.40	-0.43	74.0	19.60	Peak	0.00	100	Vertical	Pass
5**	7495.250	45.34	-0.43	54.0	8.66	AV	0.00	100	Vertical	Pass
6	12417.025	51.97	0.50	74.0	22.03	Peak	126.00	300	Vertical	Pass
6**	12417.025	42.40	0.50	54.0	11.60	AV	126.00	300	Vertical	Pass

## 11ac40, U-NII-2C, 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	1496.600	40.17	-19.51	74.0	33.83	Peak	357.00	400	Horizontal	Pass
1**	1496.600	27.20	-19.51	54.0	26.80	AV	357.00	400	Horizontal	Pass
2	2726.700	43.29	-11.60	74.0	30.71	Peak	336.00	200	Horizontal	Pass
2**	2726.700	33.51	-11.60	54.0	20.49	AV	336.00	200	Horizontal	Pass
3	4339.250	47.31	-6.22	74.0	26.69	Peak	172.00	200	Horizontal	Pass
3**	4339.250	38.74	-6.22	54.0	15.26	AV	172.00	200	Horizontal	Pass
4	5672.000	94.57	-5.08	--	--	Peak	180.00	200	Horizontal	N/A
4**	5672.000	87.32	-5.08	--	--	AV	180.00	200	Horizontal	N/A
5	7487.750	53.99	-0.35	74.0	20.01	Peak	71.00	150	Horizontal	Pass
5**	7487.750	45.08	-0.35	54.0	8.92	AV	71.00	150	Horizontal	Pass
6	12604.174	52.76	1.12	74.0	21.24	Peak	37.00	100	Horizontal	Pass
6**	12604.174	43.61	1.12	54.0	10.39	AV	37.00	100	Horizontal	Pass

## 11ac40, U-NII-2C, 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	1594.600	38.33	-19.98	74.0	35.67	Peak	313.00	200	Vertical	Pass
1**	1594.600	27.06	-19.98	54.0	26.94	AV	313.00	200	Vertical	Pass
2	2885.200	43.84	-12.24	74.0	30.16	Peak	105.00	100	Vertical	Pass
2**	2885.200	34.02	-12.24	54.0	19.98	AV	105.00	100	Vertical	Pass
3	4376.500	47.53	-7.20	74.0	26.47	Peak	304.00	100	Vertical	Pass
3**	4376.500	37.42	-7.20	54.0	16.58	AV	304.00	100	Vertical	Pass
4	5668.500	90.37	-5.04	--	--	Peak	87.00	200	Vertical	N/A
4**	5668.500	82.68	-5.04	--	--	AV	87.00	200	Vertical	N/A
5	7538.250	54.44	-0.23	74.0	19.56	Peak	4.00	150	Vertical	Pass
5**	7538.250	45.60	-0.23	54.0	8.40	AV	4.00	150	Vertical	Pass
6	12550.974	53.21	1.60	74.0	20.79	Peak	81.00	300	Vertical	Pass
6**	12550.974	44.14	1.60	54.0	9.86	AV	81.00	300	Vertical	Pass

## 11ac80, U-NII-2C, 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	1462.800	38.93	-19.75	74.0	35.07	Peak	218.00	300	Horizontal	Pass
1**	1462.800	28.60	-19.75	54.0	25.40	AV	218.00	300	Horizontal	Pass
2	2729.800	43.07	-11.53	74.0	30.93	Peak	5.00	150	Horizontal	Pass
2**	2729.800	34.49	-11.53	54.0	19.51	AV	5.00	150	Horizontal	Pass
3	4336.000	48.63	-6.11	74.0	25.37	Peak	297.00	150	Horizontal	Pass
3**	4336.000	38.26	-6.11	54.0	15.74	AV	297.00	150	Horizontal	Pass
4	5522.250	94.70	-5.22	--	--	Peak	172.00	400	Horizontal	N/A
4**	5522.250	86.23	-5.22	--	--	AV	172.00	400	Horizontal	N/A
5	7498.250	54.96	-0.65	74.0	19.04	Peak	339.00	150	Horizontal	Pass
5**	7498.250	44.99	-0.65	54.0	9.01	AV	339.00	150	Horizontal	Pass
6	12607.974	52.55	1.08	74.0	21.45	Peak	302.00	200	Horizontal	Pass
6**	12607.974	43.35	1.08	54.0	10.65	AV	302.00	200	Horizontal	Pass

## 11ac80, U-NII-2C, 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	1194.800	39.34	-20.24	74.0	34.66	Peak	338.00	150	Vertical	Pass
1**	1194.800	27.62	-20.24	54.0	26.38	AV	338.00	150	Vertical	Pass
2	2765.400	43.47	-12.74	74.0	30.53	Peak	297.00	300	Vertical	Pass
2**	2765.400	33.59	-12.74	54.0	20.41	AV	297.00	300	Vertical	Pass
3	4338.500	48.00	-6.17	74.0	26.00	Peak	221.00	200	Vertical	Pass
3**	4338.500	38.69	-6.17	54.0	15.31	AV	221.00	200	Vertical	Pass
4	5523.000	88.45	-5.20	--	--	Peak	71.00	300	Vertical	N/A
4**	5523.000	81.28	-5.20	--	--	AV	71.00	300	Vertical	N/A
5	7502.750	54.22	-0.92	74.0	19.78	Peak	196.00	200	Vertical	Pass
5**	7502.750	44.93	-0.92	54.0	9.07	AV	196.00	200	Vertical	Pass
6	12461.912	52.87	0.80	74.0	21.13	Peak	223.00	400	Vertical	Pass
6**	12461.912	42.93	0.80	54.0	11.07	AV	223.00	400	Vertical	Pass

## 11ac80, U-NII-2C, 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	1496.500	38.24	-19.51	74.0	35.76	Peak	211.00	100	Horizontal	Pass
1**	1496.500	28.79	-19.51	54.0	25.21	AV	211.00	100	Horizontal	Pass
2	2713.400	43.42	-12.74	74.0	30.58	Peak	111.00	100	Horizontal	Pass
2**	2713.400	32.83	-12.74	54.0	21.17	AV	111.00	100	Horizontal	Pass
3	4319.750	48.05	-5.98	74.0	25.95	Peak	119.00	150	Horizontal	Pass
3**	4319.750	37.44	-5.98	54.0	16.56	AV	119.00	150	Horizontal	Pass
4	5603.500	92.49	-5.37	--	--	Peak	138.00	400	Horizontal	N/A
4**	5603.500	85.03	-5.37	--	--	AV	138.00	400	Horizontal	N/A
5	7536.000	54.35	-0.37	74.0	19.65	Peak	241.00	200	Horizontal	Pass
5**	7536.000	45.91	-0.37	54.0	8.09	AV	241.00	200	Horizontal	Pass
6	12584.225	52.92	1.30	74.0	21.08	Peak	218.00	400	Horizontal	Pass
6**	12584.225	43.67	1.30	54.0	10.33	AV	218.00	400	Horizontal	Pass

## 11ac80, U-NII-2C, 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	1593.700	38.54	-20.01	74.0	35.46	Peak	310.00	100	Vertical	Pass
1**	1593.700	29.05	-20.01	54.0	24.95	AV	310.00	100	Vertical	Pass
2	2888.600	43.34	-12.13	74.0	30.66	Peak	160.00	400	Vertical	Pass
2**	2888.600	34.21	-12.13	54.0	19.79	AV	160.00	400	Vertical	Pass
3	4330.000	47.70	-5.97	74.0	26.30	Peak	235.00	200	Vertical	Pass
3**	4330.000	37.70	-5.97	54.0	16.30	AV	235.00	200	Vertical	Pass
4	5616.250	87.33	-5.32	--	--	Peak	84.00	300	Vertical	N/A
4**	5616.250	79.16	-5.32	--	--	AV	84.00	300	Vertical	N/A
5	7506.250	54.42	-1.10	74.0	19.58	Peak	310.00	200	Vertical	Pass
5**	7506.250	45.46	-1.10	54.0	8.54	AV	310.00	200	Vertical	Pass
6	12583.987	52.79	1.30	74.0	21.21	Peak	114.00	200	Vertical	Pass
6**	12583.987	43.43	1.30	54.0	10.57	AV	114.00	200	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	1493.700	39.41	-19.42	74.0	34.59	Peak	213.00	300	Horizontal	Pass
1**	1493.700	28.28	-19.42	54.0	25.72	AV	213.00	300	Horizontal	Pass
2	2854.500	43.34	-12.29	74.0	30.66	Peak	42.00	400	Horizontal	Pass
2**	2854.500	33.73	-12.29	54.0	20.27	AV	42.00	400	Horizontal	Pass
3	4351.750	47.61	-6.62	74.0	26.39	Peak	121.00	200	Horizontal	Pass
3**	4351.750	38.65	-6.62	54.0	15.35	AV	121.00	200	Horizontal	Pass
4	5743.750	97.68	-5.35	--	--	Peak	171.00	100	Horizontal	N/A
4**	5743.750	89.90	-5.35	--	--	AV	171.00	100	Horizontal	N/A
5	7544.500	54.32	-0.42	74.0	19.68	Peak	21.00	100	Horizontal	Pass
5**	7544.500	45.03	-0.42	54.0	8.97	AV	21.00	100	Horizontal	Pass
6	12298.750	52.64	0.65	74.0	21.36	Peak	306.00	400	Horizontal	Pass
6**	12298.750	44.07	0.65	54.0	9.93	AV	306.00	400	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	1594.000	38.37	-20.00	74.0	35.63	Peak	186.00	400	Vertical	Pass
1**	1594.000	29.62	-20.00	54.0	24.38	AV	186.00	400	Vertical	Pass
2	2803.700	43.31	-12.97	74.0	30.69	Peak	71.00	150	Vertical	Pass
2**	2803.700	33.93	-12.97	54.0	20.07	AV	71.00	150	Vertical	Pass
3	4152.500	47.88	-7.23	74.0	26.12	Peak	214.00	200	Vertical	Pass
3**	4152.500	37.78	-7.23	54.0	16.22	AV	214.00	200	Vertical	Pass
4	5746.250	93.25	-5.27	--	--	Peak	89.00	200	Vertical	N/A
4**	5746.250	86.53	-5.27	--	--	AV	89.00	200	Vertical	N/A
5	7495.000	55.14	-0.41	74.0	18.86	Peak	156.00	150	Vertical	Pass
5**	7495.000	45.77	-0.41	54.0	8.23	AV	156.00	150	Vertical	Pass
6	12578.288	52.08	1.35	74.0	21.92	Peak	216.00	400	Vertical	Pass
6**	12578.288	43.86	1.35	54.0	10.14	AV	216.00	400	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	1466.400	39.29	-19.82	74.0	34.71	Peak	218.00	300	Horizontal	Pass
1**	1466.400	29.55	-19.82	54.0	24.45	AV	218.00	300	Horizontal	Pass
2	2857.300	43.28	-12.34	74.0	30.72	Peak	7.00	200	Horizontal	Pass
2**	2857.300	33.82	-12.34	54.0	20.18	AV	7.00	200	Horizontal	Pass
3	4343.500	47.04	-6.25	74.0	26.96	Peak	79.00	200	Horizontal	Pass
3**	4343.500	38.98	-6.25	54.0	15.02	AV	79.00	200	Horizontal	Pass
4	5783.250	97.65	-4.70	--	--	Peak	182.00	200	Horizontal	N/A
4**	5783.250	90.99	-4.70	--	--	AV	182.00	200	Horizontal	N/A
5	7494.750	54.29	-0.40	74.0	19.71	Peak	360.00	100	Horizontal	Pass
5**	7494.750	45.47	-0.40	54.0	8.53	AV	360.00	100	Horizontal	Pass
6	12545.750	52.72	1.52	74.0	21.28	Peak	23.00	200	Horizontal	Pass
6**	12545.750	43.38	1.52	54.0	10.62	AV	23.00	200	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	1500.200	38.61	-19.47	74.0	35.39	Peak	233.00	400	Vertical	Pass
1**	1500.200	27.53	-19.47	54.0	26.47	AV	233.00	400	Vertical	Pass
2	2730.200	43.03	-11.54	74.0	30.97	Peak	301.00	300	Vertical	Pass
2**	2730.200	33.50	-11.54	54.0	20.50	AV	301.00	300	Vertical	Pass
3	4278.000	47.63	-6.98	74.0	26.37	Peak	95.00	100	Vertical	Pass
3**	4278.000	37.31	-6.98	54.0	16.69	AV	95.00	100	Vertical	Pass
4	5784.000	93.75	-4.69	--	--	Peak	87.00	400	Vertical	N/A
4**	5784.000	86.65	-4.69	--	--	AV	87.00	400	Vertical	N/A
5	7602.000	53.85	-0.46	74.0	20.15	Peak	145.00	100	Vertical	Pass
5**	7602.000	45.07	-0.46	54.0	8.93	AV	145.00	100	Vertical	Pass
6	12587.076	52.55	1.27	74.0	21.45	Peak	330.00	200	Vertical	Pass
6**	12587.076	43.43	1.27	54.0	10.57	AV	330.00	200	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	1492.700	38.26	-19.43	74.0	35.74	Peak	207.00	300	Horizontal	Pass
1**	1492.700	27.66	-19.43	54.0	26.34	AV	207.00	300	Horizontal	Pass
2	2820.300	43.20	-12.82	74.0	30.80	Peak	268.00	400	Horizontal	Pass
2**	2820.300	33.71	-12.82	54.0	20.29	AV	268.00	400	Horizontal	Pass
3	3883.250	46.28	-8.45	74.0	27.72	Peak	63.00	150	Horizontal	Pass
3**	3883.250	40.22	-8.45	54.0	13.78	AV	63.00	150	Horizontal	Pass
4	5821.750	98.63	-4.70	--	--	Peak	172.00	400	Horizontal	N/A
4**	5821.750	90.37	-4.70	--	--	AV	172.00	400	Horizontal	N/A
5	7548.500	54.05	-0.85	74.0	19.95	Peak	13.00	200	Horizontal	Pass
5**	7548.500	44.45	-0.85	54.0	9.55	AV	13.00	200	Horizontal	Pass
6	12299.700	52.30	0.65	74.0	21.70	Peak	3.00	100	Horizontal	Pass
6**	12299.700	42.89	0.65	54.0	11.11	AV	3.00	100	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	1594.100	37.56	-20.00	74.0	36.44	Peak	222.00	400	Vertical	Pass
1**	1594.100	28.65	-20.00	54.0	25.35	AV	222.00	400	Vertical	Pass
2	2740.800	42.97	-12.40	74.0	31.03	Peak	243.00	400	Vertical	Pass
2**	2740.800	33.20	-12.40	54.0	20.80	AV	243.00	400	Vertical	Pass
3	4323.750	47.55	-5.93	74.0	26.45	Peak	303.00	100	Vertical	Pass
3**	4323.750	38.50	-5.93	54.0	15.50	AV	303.00	100	Vertical	Pass
4	5824.250	93.40	-4.74	--	--	Peak	86.00	400	Vertical	N/A
4**	5824.250	85.86	-4.74	--	--	AV	86.00	400	Vertical	N/A
5	7490.750	54.30	-0.33	74.0	19.70	Peak	345.00	200	Vertical	Pass
5**	7490.750	45.60	-0.33	54.0	8.40	AV	345.00	200	Vertical	Pass
6	12577.812	52.72	1.35	74.0	21.28	Peak	115.00	200	Vertical	Pass
6**	12577.812	43.62	1.35	54.0	10.38	AV	115.00	200	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	1502.000	37.43	-19.52	74.0	36.57	Peak	216.00	200	Horizontal	Pass
1**	1502.000	27.06	-19.52	54.0	26.94	AV	216.00	200	Horizontal	Pass
2	2792.700	43.31	-12.55	74.0	30.69	Peak	257.00	400	Horizontal	Pass
2**	2792.700	33.03	-12.55	54.0	20.97	AV	257.00	400	Horizontal	Pass
3	4315.500	47.04	-6.01	74.0	26.96	Peak	229.00	200	Horizontal	Pass
3**	4315.500	37.79	-6.01	54.0	16.21	AV	229.00	200	Horizontal	Pass
4	5746.750	97.05	-5.28	--	--	Peak	146.00	300	Horizontal	N/A
4**	5746.750	90.33	-5.28	--	--	AV	146.00	300	Horizontal	N/A
5	7530.750	53.89	-0.67	74.0	20.11	Peak	354.00	150	Horizontal	Pass
5**	7530.750	44.81	-0.67	54.0	9.19	AV	354.00	150	Horizontal	Pass
6	12397.550	52.64	0.33	74.0	21.36	Peak	341.00	100	Horizontal	Pass
6**	12397.550	42.64	0.33	54.0	11.36	AV	341.00	100	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	1512.100	38.34	-19.64	74.0	35.66	Peak	0.00	200	Vertical	Pass
1**	1512.100	27.20	-19.64	54.0	26.80	AV	0.00	200	Vertical	Pass
2	2733.300	43.39	-11.68	74.0	30.61	Peak	238.00	300	Vertical	Pass
2**	2733.300	33.85	-11.68	54.0	20.15	AV	238.00	300	Vertical	Pass
3	4340.000	47.68	-6.26	74.0	26.32	Peak	55.00	150	Vertical	Pass
3**	4340.000	39.13	-6.26	54.0	14.87	AV	55.00	150	Vertical	Pass
4	5741.250	92.21	-5.32	--	--	Peak	88.00	200	Vertical	N/A
4**	5741.250	84.91	-5.32	--	--	AV	88.00	200	Vertical	N/A
5	7489.500	54.05	-0.33	74.0	19.95	Peak	305.00	100	Vertical	Pass
5**	7489.500	45.09	-0.33	54.0	8.91	AV	305.00	100	Vertical	Pass
6	12423.675	52.76	0.58	74.0	21.24	Peak	233.00	400	Vertical	Pass
6**	12423.675	43.27	0.58	54.0	10.73	AV	233.00	400	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	1479.800	38.70	-19.70	74.0	35.30	Peak	214.00	400	Horizontal	Pass
1**	1479.800	28.32	-19.70	54.0	25.68	AV	214.00	400	Horizontal	Pass
2	2785.900	43.15	-12.79	74.0	30.85	Peak	4.00	150	Horizontal	Pass
2**	2785.900	34.07	-12.79	54.0	19.93	AV	4.00	150	Horizontal	Pass
3	4275.500	47.47	-7.16	74.0	26.53	Peak	351.00	200	Horizontal	Pass
3**	4275.500	37.03	-7.16	54.0	16.97	AV	351.00	200	Horizontal	Pass
4	5786.750	98.29	-4.73	--	--	Peak	185.00	200	Horizontal	N/A
4**	5786.750	90.93	-4.73	--	--	AV	185.00	200	Horizontal	N/A
5	7493.750	54.26	-0.42	74.0	19.74	Peak	0.00	100	Horizontal	Pass
5**	7493.750	46.01	-0.42	54.0	7.99	AV	0.00	100	Horizontal	Pass
6	12586.125	52.50	1.28	74.0	21.50	Peak	260.00	300	Horizontal	Pass
6**	12586.125	43.12	1.28	54.0	10.88	AV	260.00	300	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	1497.000	40.18	-19.52	74.0	33.82	Peak	300.00	200	Vertical	Pass
1**	1497.000	27.69	-19.52	54.0	26.31	AV	300.00	200	Vertical	Pass
2	2887.600	42.91	-12.13	74.0	31.09	Peak	229.00	300	Vertical	Pass
2**	2887.600	35.22	-12.13	54.0	18.78	AV	229.00	300	Vertical	Pass
3	4358.000	47.35	-6.59	74.0	26.65	Peak	47.00	150	Vertical	Pass
3**	4358.000	38.83	-6.59	54.0	15.17	AV	47.00	150	Vertical	Pass
4	5783.250	92.95	-4.70	--	--	Peak	89.00	200	Vertical	N/A
4**	5783.250	85.78	-4.70	--	--	AV	89.00	200	Vertical	N/A
5	7707.750	54.37	-1.47	74.0	19.63	Peak	246.00	100	Vertical	Pass
5**	7707.750	44.37	-1.47	54.0	9.63	AV	246.00	100	Vertical	Pass
6	12256.950	52.73	0.40	74.0	21.27	Peak	135.00	100	Vertical	Pass
6**	12256.950	41.90	0.40	54.0	12.10	AV	135.00	100	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	1595.100	38.03	-19.96	74.0	35.97	Peak	303.00	300	Horizontal	Pass
1**	1595.100	27.69	-19.96	54.0	26.31	AV	303.00	300	Horizontal	Pass
2	2710.600	43.20	-12.90	74.0	30.80	Peak	9.00	300	Horizontal	Pass
2**	2710.600	33.08	-12.90	54.0	20.92	AV	9.00	300	Horizontal	Pass
3	3883.250	47.93	-8.45	74.0	26.07	Peak	66.00	150	Horizontal	Pass
3**	3883.250	40.70	-8.45	54.0	13.30	AV	66.00	150	Horizontal	Pass
4	5824.000	98.29	-4.73	--	--	Peak	132.00	400	Horizontal	N/A
4**	5824.000	90.24	-4.73	--	--	AV	132.00	400	Horizontal	N/A
5	7488.750	55.33	-0.33	74.0	18.67	Peak	349.00	150	Horizontal	Pass
5**	7488.750	45.12	-0.33	54.0	8.88	AV	349.00	150	Horizontal	Pass
6	12612.487	52.34	1.04	74.0	21.66	Peak	101.00	200	Horizontal	Pass
6**	12612.487	43.86	1.04	54.0	10.14	AV	101.00	200	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	1596.400	39.12	-19.95	74.0	34.88	Peak	219.00	200	Vertical	Pass
1**	1596.400	28.86	-19.95	54.0	25.14	AV	219.00	200	Vertical	Pass
2	2739.500	43.31	-12.23	74.0	30.69	Peak	281.00	100	Vertical	Pass
2**	2739.500	33.59	-12.23	54.0	20.41	AV	281.00	100	Vertical	Pass
3	4325.000	47.74	-5.94	74.0	26.26	Peak	294.00	200	Vertical	Pass
3**	4325.000	37.87	-5.94	54.0	16.13	AV	294.00	200	Vertical	Pass
4	5822.500	93.92	-4.69	--	--	Peak	83.00	200	Vertical	N/A
4**	5822.500	85.68	-4.69	--	--	AV	83.00	200	Vertical	N/A
5	7488.250	54.59	-0.34	74.0	19.41	Peak	201.00	200	Vertical	Pass
5**	7488.250	45.56	-0.34	54.0	8.44	AV	201.00	200	Vertical	Pass
6	12454.313	53.02	0.86	74.0	20.98	Peak	170.00	200	Vertical	Pass
6**	12454.313	43.67	0.86	54.0	10.33	AV	170.00	200	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	1465.000	38.25	-19.79	74.0	35.75	Peak	219.00	200	Horizontal	Pass
1**	1465.000	30.38	-19.79	54.0	23.62	AV	219.00	200	Horizontal	Pass
2	2732.400	43.35	-11.62	74.0	30.65	Peak	330.00	100	Horizontal	Pass
2**	2732.400	33.78	-11.62	54.0	20.22	AV	330.00	100	Horizontal	Pass
3	3836.500	47.33	-7.98	74.0	26.67	Peak	63.00	150	Horizontal	Pass
3**	3836.500	41.13	-7.98	54.0	12.87	AV	63.00	150	Horizontal	Pass
4	5759.000	94.52	-5.03	--	--	Peak	131.00	300	Horizontal	N/A
4**	5759.000	87.06	-5.03	--	--	AV	131.00	300	Horizontal	N/A
5	7531.750	54.43	-0.59	74.0	19.57	Peak	63.00	200	Horizontal	Pass
5**	7531.750	44.84	-0.59	54.0	9.16	AV	63.00	200	Horizontal	Pass
6	12448.612	52.65	0.87	74.0	21.35	Peak	199.00	200	Horizontal	Pass
6**	12448.612	43.74	0.87	54.0	10.26	AV	199.00	200	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	1596.000	38.61	-19.93	74.0	35.39	Peak	310.00	300	Vertical	Pass
1**	1596.000	27.55	-19.93	54.0	26.45	AV	310.00	300	Vertical	Pass
2	2812.600	43.60	-13.00	74.0	30.40	Peak	268.00	400	Vertical	Pass
2**	2812.600	32.93	-13.00	54.0	21.07	AV	268.00	400	Vertical	Pass
3	4138.750	47.22	-7.34	74.0	26.78	Peak	0.00	200	Vertical	Pass
3**	4138.750	37.15	-7.34	54.0	16.85	AV	0.00	200	Vertical	Pass
4	5744.750	90.37	-5.32	--	--	Peak	79.00	100	Vertical	N/A
4**	5744.750	82.44	-5.32	--	--	AV	79.00	100	Vertical	N/A
5	7492.000	55.51	-0.39	74.0	18.49	Peak	173.00	200	Vertical	Pass
5**	7492.000	45.12	-0.39	54.0	8.88	AV	173.00	200	Vertical	Pass
6	12358.838	52.57	0.66	74.0	21.43	Peak	228.00	300	Vertical	Pass
6**	12358.838	42.47	0.66	54.0	11.53	AV	228.00	300	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	1483.000	38.63	-19.61	74.0	35.37	Peak	217.00	100	Horizontal	Pass
1**	1483.000	28.87	-19.61	54.0	25.13	AV	217.00	100	Horizontal	Pass
2	2736.300	43.00	-11.92	74.0	31.00	Peak	49.00	400	Horizontal	Pass
2**	2736.300	33.78	-11.92	54.0	20.22	AV	49.00	400	Horizontal	Pass
3	3863.000	46.38	-7.88	74.0	27.62	Peak	37.00	150	Horizontal	Pass
3**	3863.000	38.09	-7.88	54.0	15.91	AV	37.00	150	Horizontal	Pass
4	5798.250	95.26	-4.71	--	--	Peak	129.00	300	Horizontal	N/A
4**	5798.250	87.79	-4.71	--	--	AV	129.00	300	Horizontal	N/A
5	7485.750	54.10	-0.42	74.0	19.90	Peak	278.00	100	Horizontal	Pass
5**	7485.750	45.98	-0.42	54.0	8.02	AV	278.00	100	Horizontal	Pass
6	12281.413	52.63	0.55	74.0	21.37	Peak	240.00	300	Horizontal	Pass
6**	12281.413	43.13	0.55	54.0	10.87	AV	240.00	300	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	1498.800	39.46	-19.51	74.0	34.54	Peak	0.00	300	Vertical	Pass
1**	1498.800	28.88	-19.51	54.0	25.12	AV	0.00	300	Vertical	Pass
2	2833.000	43.39	-12.53	74.0	30.61	Peak	302.00	100	Vertical	Pass
2**	2833.000	32.93	-12.53	54.0	21.07	AV	302.00	100	Vertical	Pass
3	4280.750	47.34	-6.97	74.0	26.66	Peak	15.00	200	Vertical	Pass
3**	4280.750	37.27	-6.97	54.0	16.73	AV	15.00	200	Vertical	Pass
4	5792.000	92.05	-4.73	--	--	Peak	85.00	100	Vertical	N/A
4**	5792.000	84.32	-4.73	--	--	AV	85.00	100	Vertical	N/A
5	7484.750	54.21	-0.48	74.0	19.79	Peak	85.00	150	Vertical	Pass
5**	7484.750	44.75	-0.48	54.0	9.25	AV	85.00	150	Vertical	Pass
6	12446.474	52.38	0.85	74.0	21.62	Peak	331.00	400	Vertical	Pass
6**	12446.474	43.35	0.85	54.0	10.65	AV	331.00	400	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	1502.100	38.86	-19.52	74.0	35.14	Peak	215.00	400	Horizontal	Pass
1**	1502.100	27.43	-19.52	54.0	26.57	AV	215.00	400	Horizontal	Pass
2	2826.700	43.03	-12.61	74.0	30.97	Peak	184.00	150	Horizontal	Pass
2**	2826.700	34.05	-12.61	54.0	19.95	AV	184.00	150	Horizontal	Pass
3	3864.750	46.40	-7.98	74.0	27.60	Peak	335.00	150	Horizontal	Pass
3**	3864.750	36.88	-7.98	54.0	17.12	AV	335.00	150	Horizontal	Pass
4	5746.000	97.14	-5.27	--	--	Peak	161.00	200	Horizontal	N/A
4**	5746.000	89.76	-5.27	--	--	AV	161.00	200	Horizontal	N/A
5	7527.500	54.35	-0.84	74.0	19.65	Peak	210.00	150	Horizontal	Pass
5**	7527.500	45.14	-0.84	54.0	8.86	AV	210.00	150	Horizontal	Pass
6	12452.175	52.82	0.87	74.0	21.18	Peak	307.00	400	Horizontal	Pass
6**	12452.175	42.92	0.87	54.0	11.08	AV	307.00	400	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	1595.400	38.38	-19.94	74.0	35.62	Peak	216.00	200	Vertical	Pass
1**	1595.400	28.54	-19.94	54.0	25.46	AV	216.00	200	Vertical	Pass
2	2836.100	43.28	-12.54	74.0	30.72	Peak	349.00	300	Vertical	Pass
2**	2836.100	33.91	-12.54	54.0	20.09	AV	349.00	300	Vertical	Pass
3	4337.500	47.60	-6.10	74.0	26.40	Peak	46.00	200	Vertical	Pass
3**	4337.500	38.79	-6.10	54.0	15.21	AV	46.00	200	Vertical	Pass
4	5743.250	94.15	-5.34	--	--	Peak	89.00	300	Vertical	N/A
4**	5743.250	86.52	-5.34	--	--	AV	89.00	300	Vertical	N/A
5	7592.750	54.08	-0.61	74.0	19.92	Peak	247.00	150	Vertical	Pass
5**	7592.750	45.65	-0.61	54.0	8.35	AV	247.00	150	Vertical	Pass
6	12396.838	52.33	0.33	74.0	21.67	Peak	296.00	300	Vertical	Pass
6**	12396.838	43.11	0.33	54.0	10.89	AV	296.00	300	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	1498.400	38.24	-19.53	74.0	35.76	Peak	215.00	400	Horizontal	Pass
1**	1498.400	27.81	-19.53	54.0	26.19	AV	215.00	400	Horizontal	Pass
2	2842.400	43.59	-12.43	74.0	30.41	Peak	32.00	300	Horizontal	Pass
2**	2842.400	33.80	-12.43	54.0	20.20	AV	32.00	300	Horizontal	Pass
3	3856.250	46.00	-7.57	74.0	28.00	Peak	137.00	150	Horizontal	Pass
3**	3856.250	37.80	-7.57	54.0	16.20	AV	137.00	150	Horizontal	Pass
4	5783.750	98.52	-4.69	--	--	Peak	178.00	200	Horizontal	N/A
4**	5783.750	91.85	-4.69	--	--	AV	178.00	200	Horizontal	N/A
5	7490.250	54.27	-0.32	74.0	19.73	Peak	12.00	100	Horizontal	Pass
5**	7490.250	45.43	-0.32	54.0	8.57	AV	12.00	100	Horizontal	Pass
6	12301.362	52.40	0.66	74.0	21.60	Peak	360.00	400	Horizontal	Pass
6**	12301.362	42.51	0.66	54.0	11.49	AV	360.00	400	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	1465.700	39.17	-19.81	74.0	34.83	Peak	360.00	300	Vertical	Pass
1**	1465.700	28.97	-19.81	54.0	25.03	AV	360.00	300	Vertical	Pass
2	2864.600	43.32	-12.31	74.0	30.68	Peak	294.00	100	Vertical	Pass
2**	2864.600	34.70	-12.31	54.0	19.30	AV	294.00	100	Vertical	Pass
3	4330.000	46.86	-5.97	74.0	27.14	Peak	217.00	100	Vertical	Pass
3**	4330.000	38.55	-5.97	54.0	15.45	AV	217.00	100	Vertical	Pass
4	5785.500	93.78	-4.71	--	--	Peak	86.00	300	Vertical	N/A
4**	5785.500	85.38	-4.71	--	--	AV	86.00	300	Vertical	N/A
5	7495.500	54.37	-0.45	74.0	19.63	Peak	135.00	200	Vertical	Pass
5**	7495.500	45.69	-0.45	54.0	8.31	AV	135.00	200	Vertical	Pass
6	12452.175	52.64	0.87	74.0	21.36	Peak	227.00	300	Vertical	Pass
6**	12452.175	43.16	0.87	54.0	10.84	AV	227.00	300	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	1480.200	37.63	-19.69	74.0	36.37	Peak	67.00	100	Horizontal	Pass
1**	1480.200	28.08	-19.69	54.0	25.92	AV	67.00	100	Horizontal	Pass
2	2862.000	43.11	-12.41	74.0	30.89	Peak	165.00	300	Horizontal	Pass
2**	2862.000	33.93	-12.41	54.0	20.07	AV	165.00	300	Horizontal	Pass
3	3883.000	45.91	-8.44	74.0	28.09	Peak	78.00	150	Horizontal	Pass
3**	3883.000	38.60	-8.44	54.0	15.40	AV	78.00	150	Horizontal	Pass
4	5825.500	97.88	-4.76	--	--	Peak	128.00	400	Horizontal	N/A
4**	5825.500	90.63	-4.76	--	--	AV	128.00	400	Horizontal	N/A
5	7515.750	54.45	-1.26	74.0	19.55	Peak	45.00	100	Horizontal	Pass
5**	7515.750	44.42	-1.26	54.0	9.58	AV	45.00	100	Horizontal	Pass
6	12391.850	52.08	0.38	74.0	21.92	Peak	339.00	400	Horizontal	Pass
6**	12391.850	43.19	0.38	54.0	10.81	AV	339.00	400	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	1465.800	38.42	-19.81	74.0	35.58	Peak	360.00	200	Vertical	Pass
1**	1465.800	27.41	-19.81	54.0	26.59	AV	360.00	200	Vertical	Pass
2	2870.600	43.49	-12.41	74.0	30.51	Peak	130.00	100	Vertical	Pass
2**	2870.600	33.94	-12.41	54.0	20.06	AV	130.00	100	Vertical	Pass
3	4345.250	47.60	-6.43	74.0	26.40	Peak	360.00	150	Vertical	Pass
3**	4345.250	37.96	-6.43	54.0	16.04	AV	360.00	150	Vertical	Pass
4	5826.250	93.41	-4.78	--	--	Peak	81.00	300	Vertical	N/A
4**	5826.250	86.23	-4.78	--	--	AV	81.00	300	Vertical	N/A
5	7590.750	54.61	-0.77	74.0	19.39	Peak	360.00	100	Vertical	Pass
5**	7590.750	45.00	-0.77	54.0	9.00	AV	360.00	100	Vertical	Pass
6	12398.262	53.99	0.32	74.0	20.01	Peak	193.00	200	Vertical	Pass
6**	12398.262	43.28	0.32	54.0	10.72	AV	193.00	200	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	1465.600	38.53	-19.81	74.0	35.47	Peak	221.00	300	Horizontal	Pass
1**	1465.600	27.58	-19.81	54.0	26.42	AV	221.00	300	Horizontal	Pass
2	2887.900	43.38	-12.12	74.0	30.62	Peak	246.00	400	Horizontal	Pass
2**	2887.900	34.46	-12.12	54.0	19.54	AV	246.00	400	Horizontal	Pass
3	3836.500	46.65	-7.98	74.0	27.35	Peak	52.00	150	Horizontal	Pass
3**	3836.500	39.89	-7.98	54.0	14.11	AV	52.00	150	Horizontal	Pass
4	5758.000	94.40	-5.07	--	--	Peak	166.00	300	Horizontal	N/A
4**	5758.000	86.70	-5.07	--	--	AV	166.00	300	Horizontal	N/A
5	7598.750	54.73	-0.36	74.0	19.27	Peak	108.00	200	Horizontal	Pass
5**	7598.750	45.35	-0.36	54.0	8.65	AV	108.00	200	Horizontal	Pass
6	12419.875	52.47	0.54	74.0	21.53	Peak	285.00	300	Horizontal	Pass
6**	12419.875	42.92	0.54	54.0	11.08	AV	285.00	300	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	1497.800	38.94	-19.53	74.0	35.06	Peak	304.00	200	Vertical	Pass
1**	1497.800	27.97	-19.53	54.0	26.03	AV	304.00	200	Vertical	Pass
2	2835.200	43.20	-12.53	74.0	30.80	Peak	270.00	300	Vertical	Pass
2**	2835.200	33.28	-12.53	54.0	20.72	AV	270.00	300	Vertical	Pass
3	4354.250	47.78	-6.60	74.0	26.22	Peak	144.00	150	Vertical	Pass
3**	4354.250	38.22	-6.60	54.0	15.78	AV	144.00	150	Vertical	Pass
4	5768.000	90.28	-4.78	--	--	Peak	87.00	300	Vertical	N/A
4**	5768.000	80.73	-4.78	--	--	AV	87.00	300	Vertical	N/A
5	7696.750	54.26	-1.42	74.0	19.74	Peak	0.00	100	Vertical	Pass
5**	7696.750	44.53	-1.42	54.0	9.47	AV	0.00	100	Vertical	Pass
6	12433.651	52.42	0.70	74.0	21.58	Peak	98.00	100	Vertical	Pass
6**	12433.651	42.65	0.70	54.0	11.35	AV	98.00	100	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	1464.700	39.97	-19.78	74.0	34.03	Peak	224.00	200	Horizontal	Pass
1**	1464.700	27.41	-19.78	54.0	26.59	AV	224.00	200	Horizontal	Pass
2	2887.100	43.20	-12.15	74.0	30.80	Peak	284.00	100	Horizontal	Pass
2**	2887.100	34.17	-12.15	54.0	19.83	AV	284.00	100	Horizontal	Pass
3	3863.500	46.40	-7.90	74.0	27.60	Peak	78.00	150	Horizontal	Pass
3**	3863.500	40.37	-7.90	54.0	13.63	AV	78.00	150	Horizontal	Pass
4	5793.000	96.25	-4.73	--	--	Peak	128.00	200	Horizontal	N/A
4**	5793.000	88.45	-4.73	--	--	AV	128.00	200	Horizontal	N/A
5	7484.000	54.70	-0.54	74.0	19.30	Peak	360.00	150	Horizontal	Pass
5**	7484.000	45.75	-0.54	54.0	8.25	AV	360.00	150	Horizontal	Pass
6	12552.637	52.61	1.59	74.0	21.39	Peak	250.00	400	Horizontal	Pass
6**	12552.637	43.39	1.59	54.0	10.61	AV	250.00	400	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	1501.900	38.65	-19.52	74.0	35.35	Peak	295.00	400	Vertical	Pass
1**	1501.900	28.01	-19.52	54.0	25.99	AV	295.00	400	Vertical	Pass
2	2770.900	44.09	-12.85	74.0	29.91	Peak	360.00	100	Vertical	Pass
2**	2770.900	33.12	-12.85	54.0	20.88	AV	360.00	100	Vertical	Pass
3	4308.250	47.61	-6.30	74.0	26.39	Peak	254.00	100	Vertical	Pass
3**	4308.250	37.46	-6.30	54.0	16.54	AV	254.00	100	Vertical	Pass
4	5792.000	91.85	-4.73	--	--	Peak	80.00	100	Vertical	N/A
4**	5792.000	84.56	-4.73	--	--	AV	80.00	100	Vertical	N/A
5	7498.500	54.30	-0.67	74.0	19.70	Peak	196.00	150	Vertical	Pass
5**	7498.500	46.54	-0.67	54.0	7.46	AV	196.00	150	Vertical	Pass
6	12268.349	52.47	0.47	74.0	21.53	Peak	150.00	400	Vertical	Pass
6**	12268.349	43.67	0.47	54.0	10.33	AV	150.00	400	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	1565.500	37.22	-19.91	74.0	36.78	Peak	115.00	300	Horizontal	Pass
1**	1565.500	27.54	-19.91	54.0	26.46	AV	115.00	300	Horizontal	Pass
2	2752.000	43.25	-12.96	74.0	30.75	Peak	291.00	200	Horizontal	Pass
2**	2752.000	34.36	-12.96	54.0	19.64	AV	291.00	200	Horizontal	Pass
3	3850.000	47.36	-7.46	74.0	26.64	Peak	62.00	150	Horizontal	Pass
3**	3850.000	42.08	-7.46	54.0	11.92	AV	62.00	150	Horizontal	Pass
4	5781.750	92.33	-4.69	--	--	Peak	164.00	300	Horizontal	N/A
4**	5781.750	84.13	-4.69	--	--	AV	164.00	300	Horizontal	N/A
5	7538.750	54.15	-0.22	74.0	19.85	Peak	106.00	150	Horizontal	Pass
5**	7538.750	45.35	-0.22	54.0	8.65	AV	106.00	150	Horizontal	Pass
6	12425.099	52.86	0.60	74.0	21.14	Peak	33.00	300	Horizontal	Pass
6**	12425.099	42.95	0.60	54.0	11.05	AV	33.00	300	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	1596.500	38.85	-19.95	74.0	35.15	Peak	226.00	200	Vertical	Pass
1**	1596.500	28.92	-19.95	54.0	25.08	AV	226.00	200	Vertical	Pass
2	2872.300	44.90	-12.43	74.0	29.10	Peak	28.00	300	Vertical	Pass
2**	2872.300	34.46	-12.43	54.0	19.54	AV	28.00	300	Vertical	Pass
3	4331.000	48.02	-6.00	74.0	25.98	Peak	350.00	150	Vertical	Pass
3**	4331.000	38.09	-6.00	54.0	15.91	AV	350.00	150	Vertical	Pass
4	5779.250	88.42	-4.62	--	--	Peak	83.00	200	Vertical	N/A
4**	5779.250	79.87	-4.62	--	--	AV	83.00	200	Vertical	N/A
5	7538.000	54.52	-0.24	74.0	19.48	Peak	0.00	150	Vertical	Pass
5**	7538.000	44.70	-0.24	54.0	9.30	AV	0.00	150	Vertical	Pass
6	12360.263	52.40	0.65	74.0	21.60	Peak	341.00	200	Vertical	Pass
6**	12360.263	43.92	0.65	54.0	10.08	AV	341.00	200	Vertical	Pass

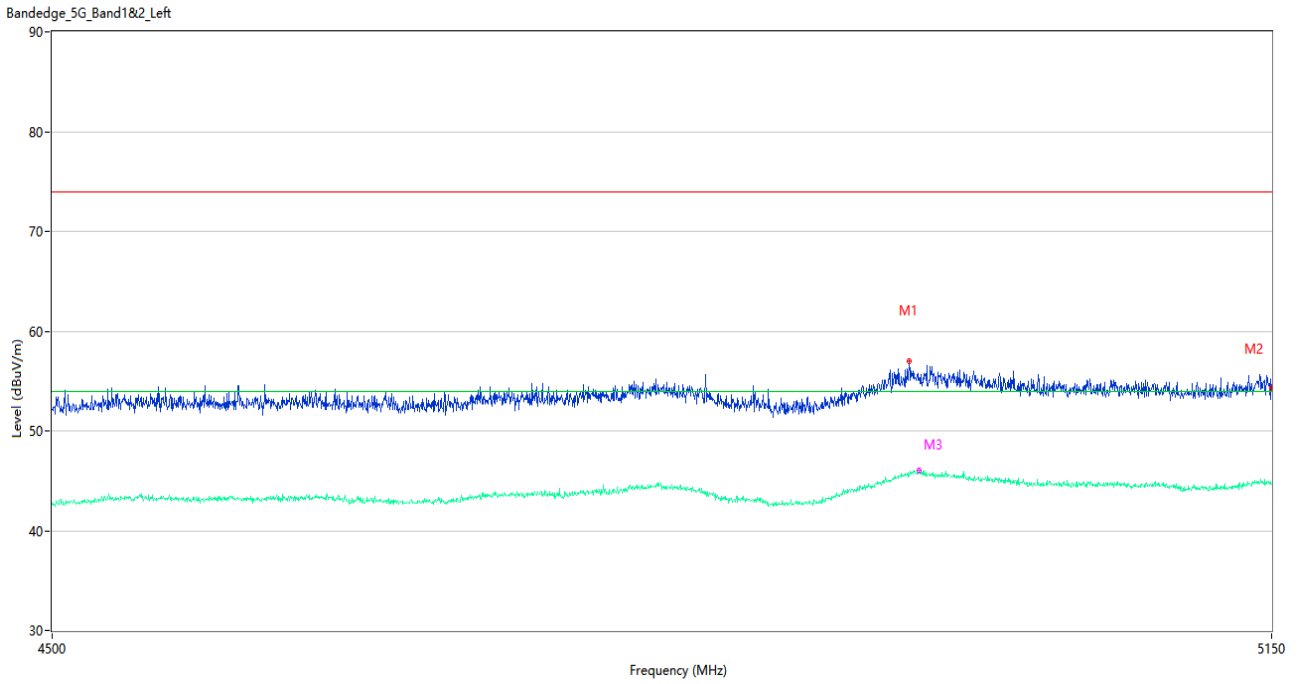
## A.6.2 Band Edge (Restricted-band)

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-2A	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-2C	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
802.11ac(VHT80)	Low	Pass	
	High	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

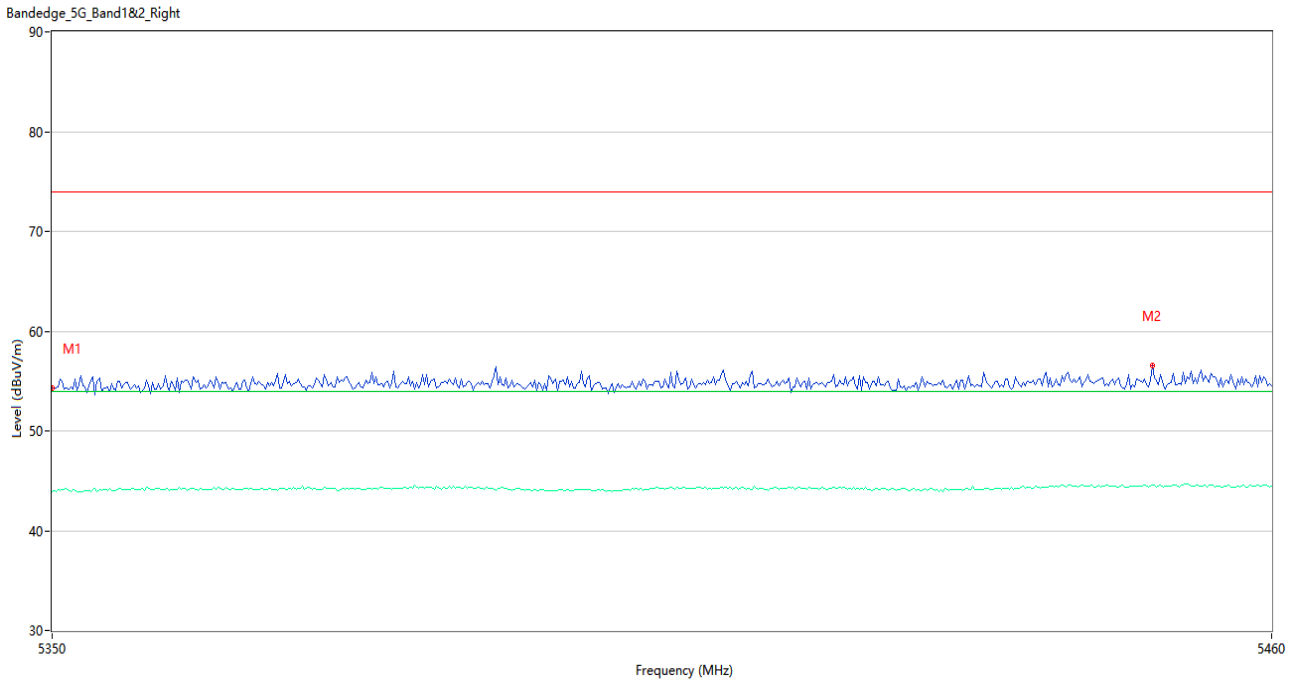
Test Data and Plots

U-NII-1 11a Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4947.525	57.04	2.33	74.0	16.96	Peak	310.00	100	Horizontal	Pass
1**	4947.525	45.49	2.33	54.0	8.51	AV	310.00	100	Horizontal	Pass
2	5150.000	54.24	0.84	74.0	19.76	Peak	181.00	100	Horizontal	Pass
2**	5150.000	44.69	0.84	54.0	9.31	AV	181.00	100	Horizontal	Pass
3	4953.050	55.06	2.40	74.0	18.94	Peak	30.00	150	Horizontal	Pass
3**	4953.050	46.06	2.40	54.0	7.94	AV	30.00	150	Horizontal	Pass

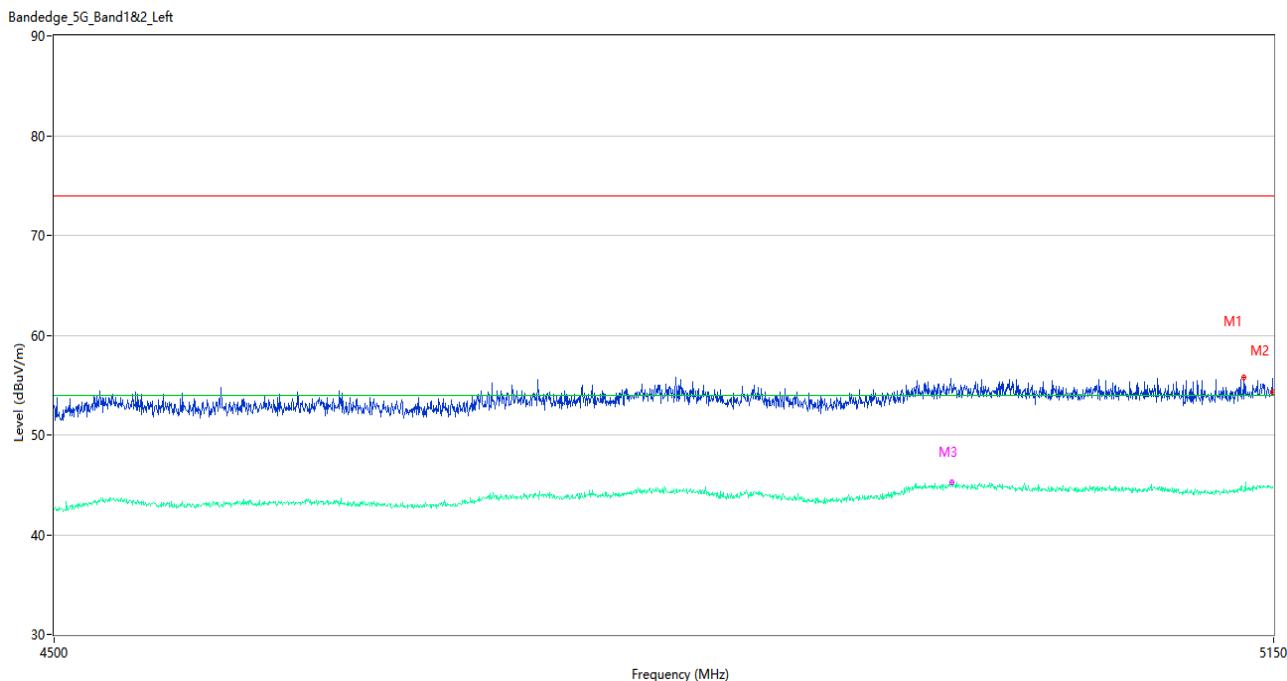
U-NII-1 11a High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.32	0.85	74.0	19.68	Peak	90.00	150	Horizontal	Pass
1**	5350.000	43.91	0.85	54.0	10.09	AV	90.00	150	Horizontal	Pass
2	5449.183	56.56	1.26	74.0	17.44	Peak	297.00	200	Horizontal	Pass
2**	5449.183	44.52	1.26	54.0	9.48	AV	297.00	200	Horizontal	Pass

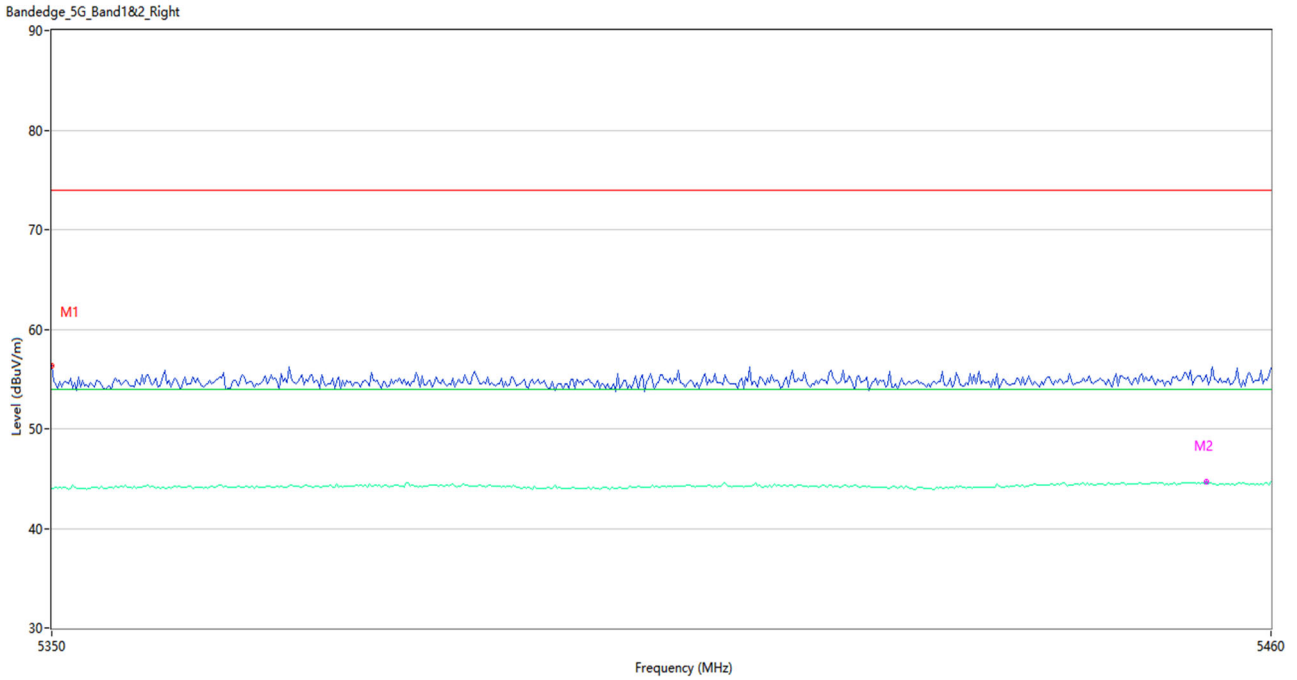


U-NII-1 11n20 Low Channel



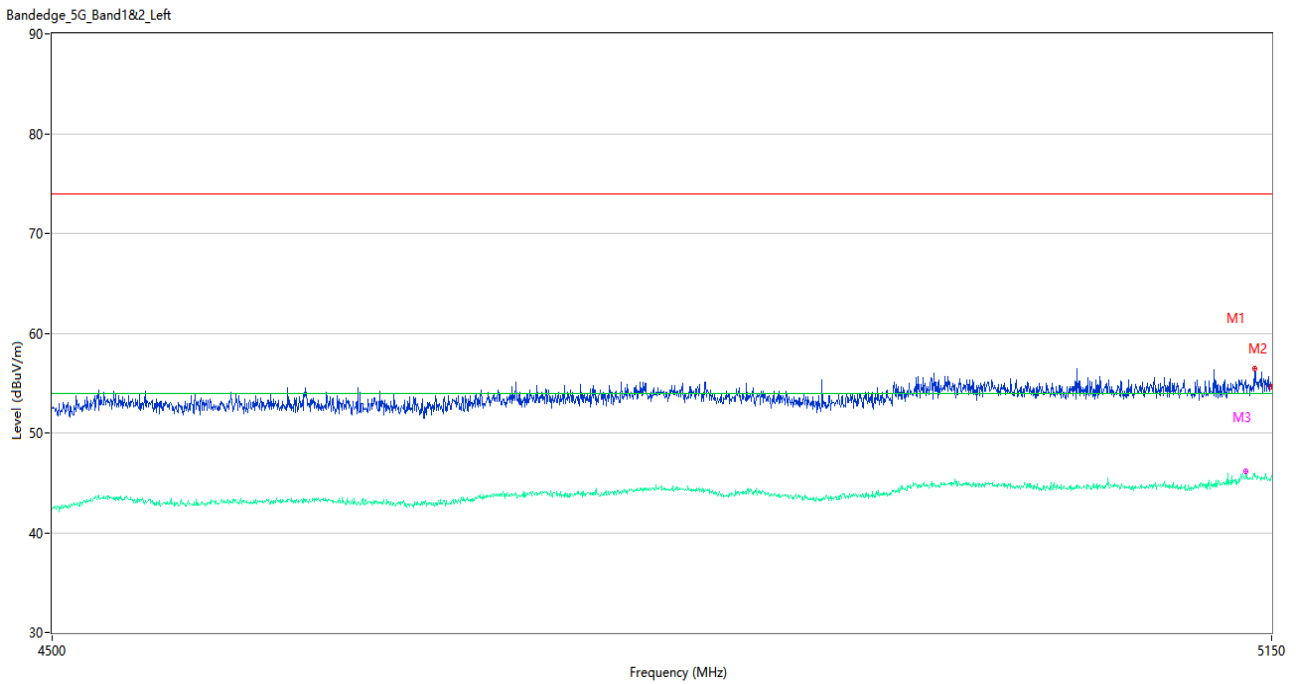
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5133.100	55.72	0.74	74.0	18.28	Peak	165.00	100	Horizontal	Pass
1**	5133.100	44.40	0.74	54.0	9.60	AV	165.00	100	Horizontal	Pass
2	5150.000	54.45	0.84	74.0	19.55	Peak	55.00	150	Horizontal	Pass
2**	5150.000	44.78	0.84	54.0	9.22	AV	55.00	150	Horizontal	Pass
3	4969.950	54.54	2.01	74.0	19.46	Peak	160.00	150	Horizontal	Pass
3**	4969.950	45.27	2.01	54.0	8.73	AV	160.00	150	Horizontal	Pass

U-NII-1 11n20 High Channel



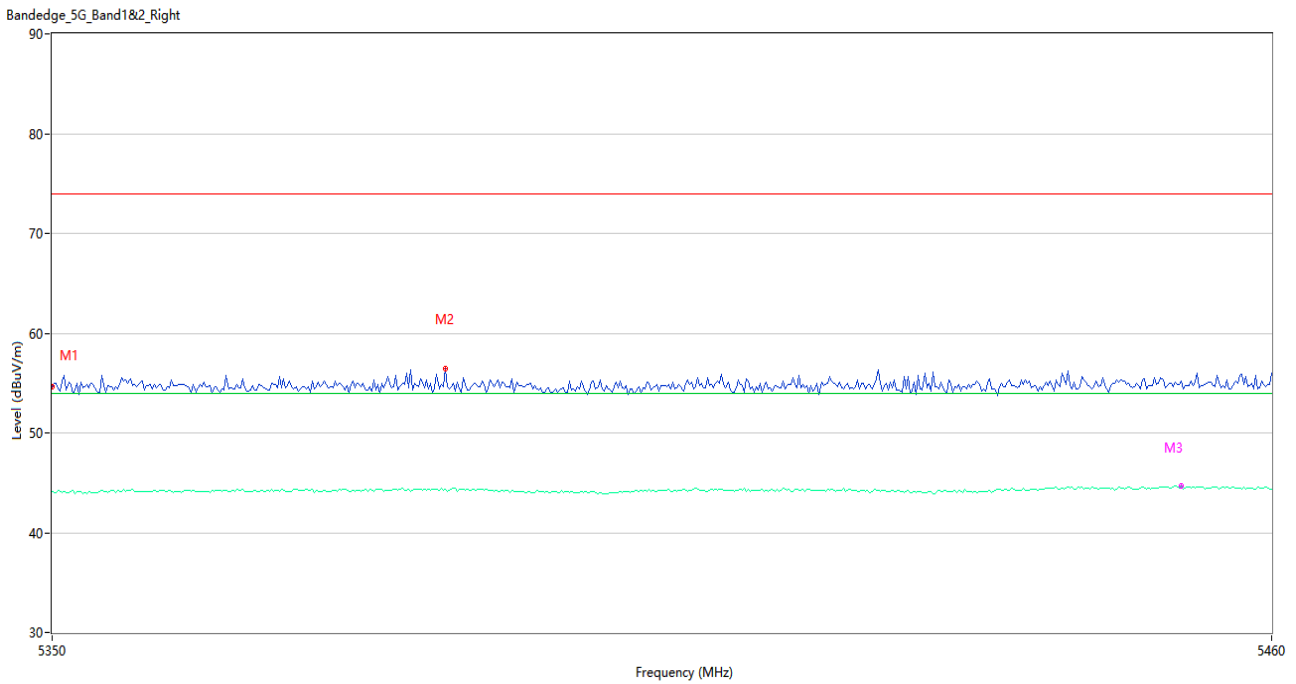
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.35	0.85	74.0	17.65	Peak	0.00	200	Horizontal	Pass
1**	5350.000	44.06	0.85	54.0	9.94	AV	0.00	200	Horizontal	Pass
2	5454.133	55.38	1.22	74.0	18.62	Peak	56.00	150	Horizontal	Pass
2**	5454.133	44.64	1.22	54.0	9.36	AV	56.00	150	Horizontal	Pass

U-NII-1 11n40 Low Channel



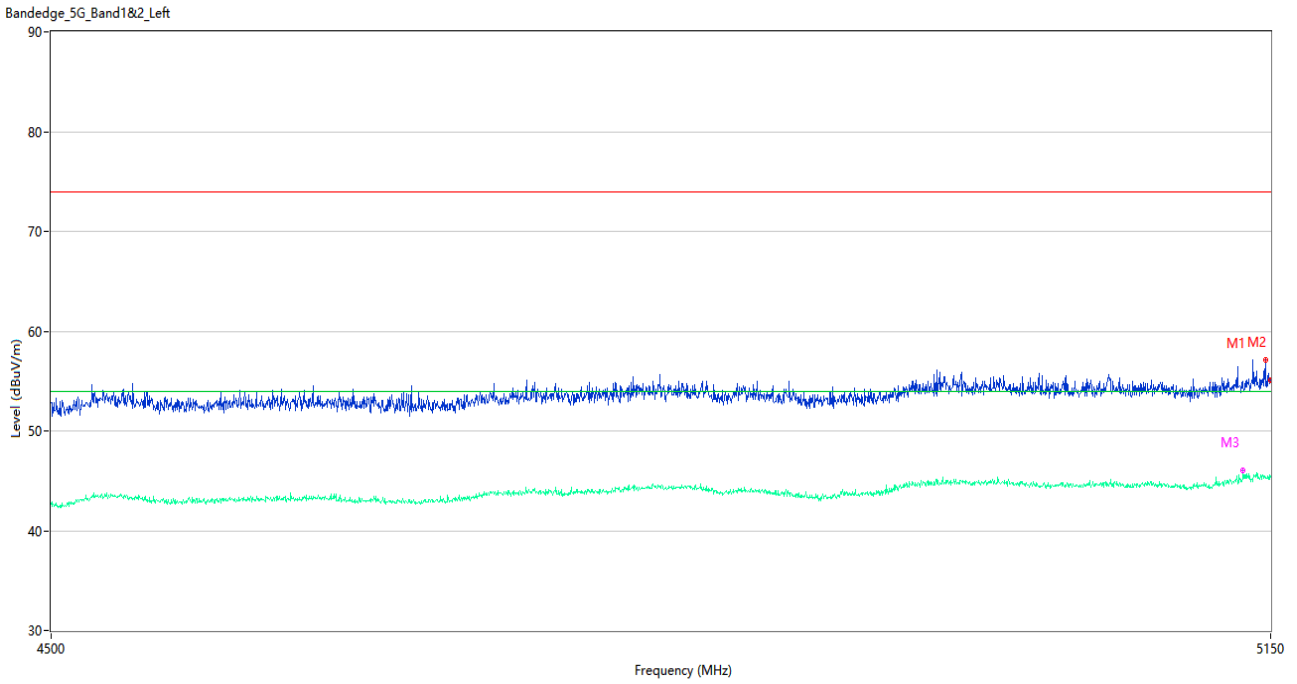
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5140.250	56.47	0.93	74.0	17.53	Peak	158.00	100	Horizontal	Pass
1**	5140.250	45.57	0.93	54.0	8.43	AV	158.00	100	Horizontal	Pass
2	5150.000	54.65	0.84	74.0	19.35	Peak	102.00	200	Horizontal	Pass
2**	5150.000	45.68	0.84	54.0	8.32	AV	102.00	200	Horizontal	Pass
3	5135.375	54.93	0.83	74.0	19.07	Peak	182.00	150	Horizontal	Pass
3**	5135.375	46.20	0.83	54.0	7.80	AV	182.00	150	Horizontal	Pass

U-NII-1 11n40 High Channel



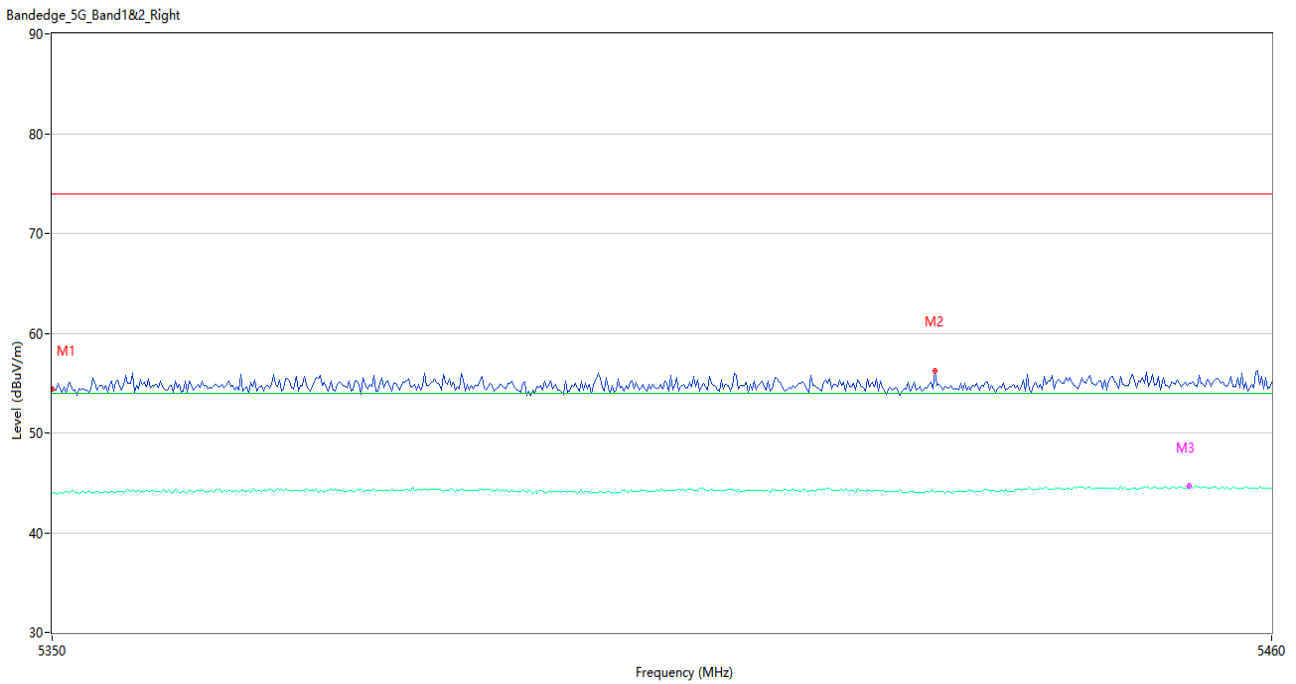
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.59	0.85	74.0	19.41	Peak	87.00	200	Horizontal	Pass
1**	5350.000	44.15	0.85	54.0	9.85	AV	87.00	200	Horizontal	Pass
2	5385.200	56.44	0.89	74.0	17.56	Peak	360.00	100	Horizontal	Pass
2**	5385.200	44.38	0.89	54.0	9.62	AV	360.00	100	Horizontal	Pass
3	5451.750	55.23	1.27	74.0	18.77	Peak	0.00	150	Horizontal	Pass
3**	5451.750	44.68	1.27	54.0	9.32	AV	0.00	150	Horizontal	Pass

U-NII-1 11ac20 Low Channel



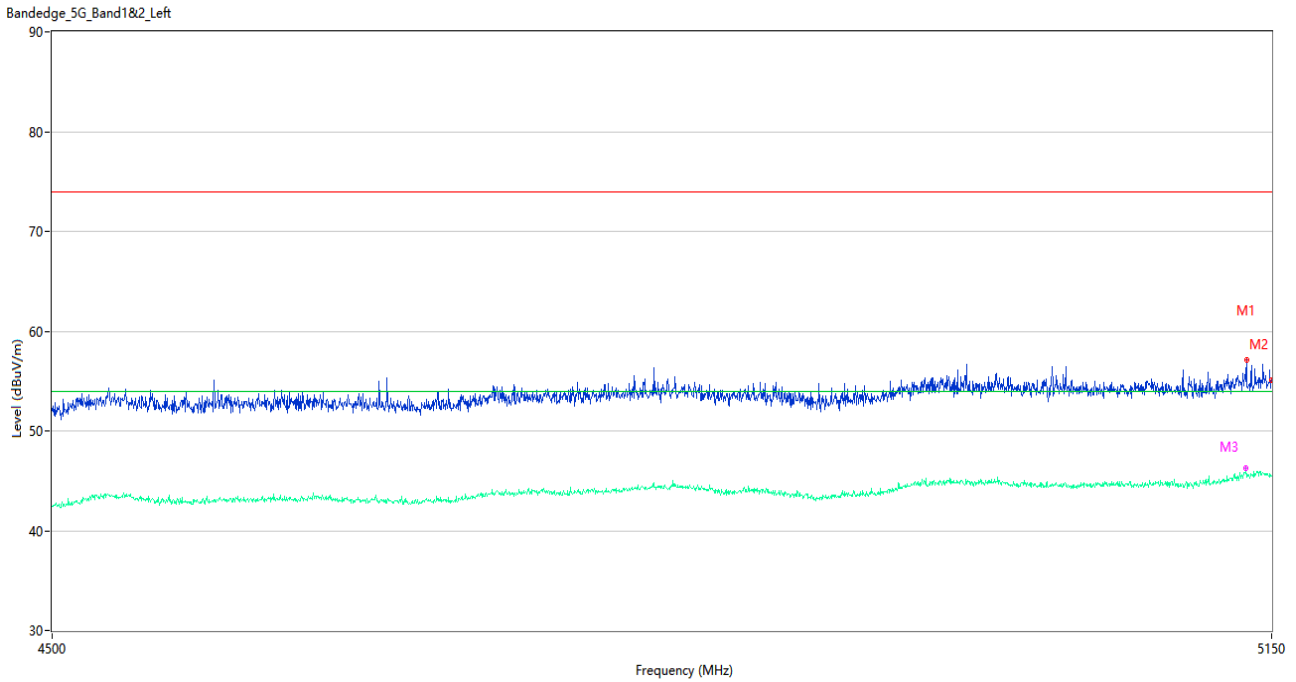
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.075	57.13	0.92	74.0	16.87	Peak	171.00	100	Horizontal	Pass
1**	5147.075	45.22	0.92	54.0	8.78	AV	171.00	100	Horizontal	Pass
2	5150.000	55.06	0.84	74.0	18.94	Peak	206.00	100	Horizontal	Pass
2**	5150.000	45.45	0.84	54.0	8.55	AV	206.00	100	Horizontal	Pass
3	5134.400	54.53	0.80	74.0	19.47	Peak	360.00	150	Horizontal	Pass
3**	5134.400	46.04	0.80	54.0	7.96	AV	360.00	150	Horizontal	Pass

U-NII-1 11ac20 High Channel



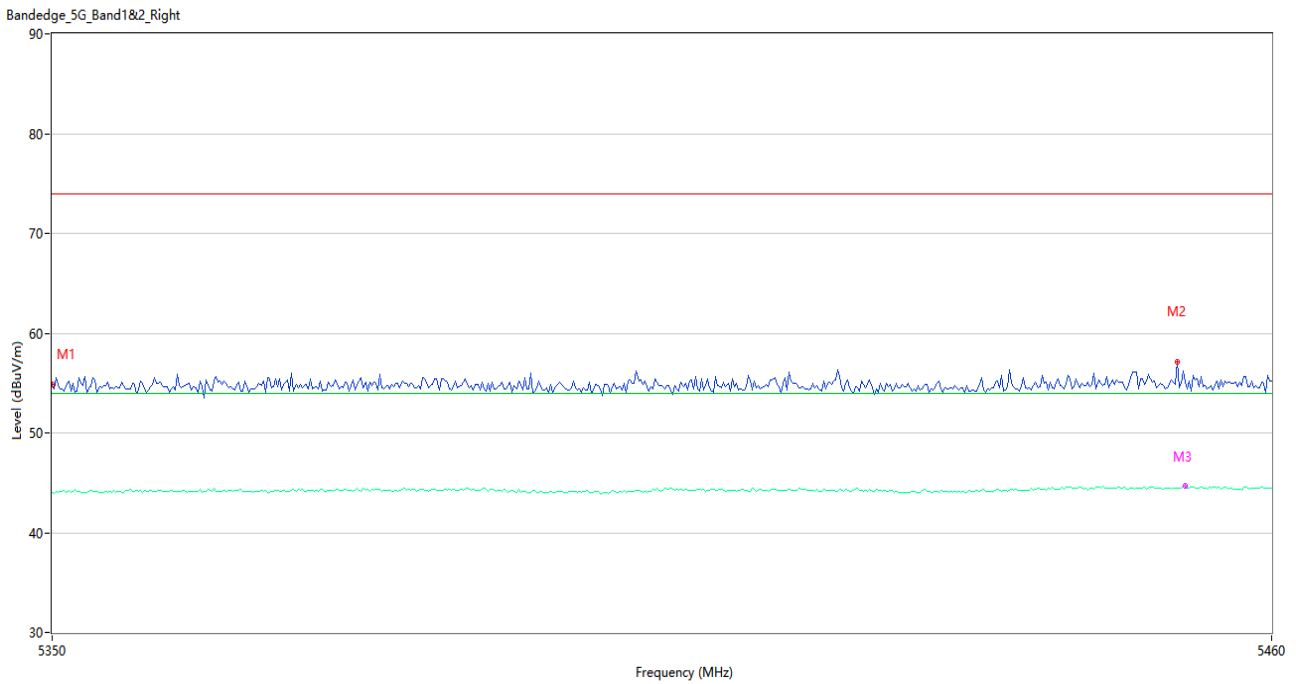
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.37	0.85	74.0	19.63	Peak	235.00	150	Horizontal	Pass
1**	5350.000	43.89	0.85	54.0	10.11	AV	235.00	150	Horizontal	Pass
2	5429.383	56.23	1.12	74.0	17.77	Peak	51.00	100	Horizontal	Pass
2**	5429.383	44.00	1.12	54.0	10.00	AV	51.00	100	Horizontal	Pass
3	5452.484	54.95	1.29	74.0	19.05	Peak	104.00	150	Horizontal	Pass
3**	5452.484	44.69	1.29	54.0	9.31	AV	104.00	150	Horizontal	Pass

U-NII-1 11ac40 Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5135.700	57.11	0.84	74.0	16.89	Peak	54.00	200	Horizontal	Pass
1**	5135.700	45.39	0.84	54.0	8.61	AV	54.00	200	Horizontal	Pass
2	5150.000	55.04	0.84	74.0	18.96	Peak	165.00	200	Horizontal	Pass
2**	5150.000	45.46	0.84	54.0	8.54	AV	165.00	200	Horizontal	Pass
3	5135.375	55.57	0.83	74.0	18.43	Peak	54.00	150	Horizontal	Pass
3**	5135.375	46.26	0.83	54.0	7.74	AV	54.00	150	Horizontal	Pass

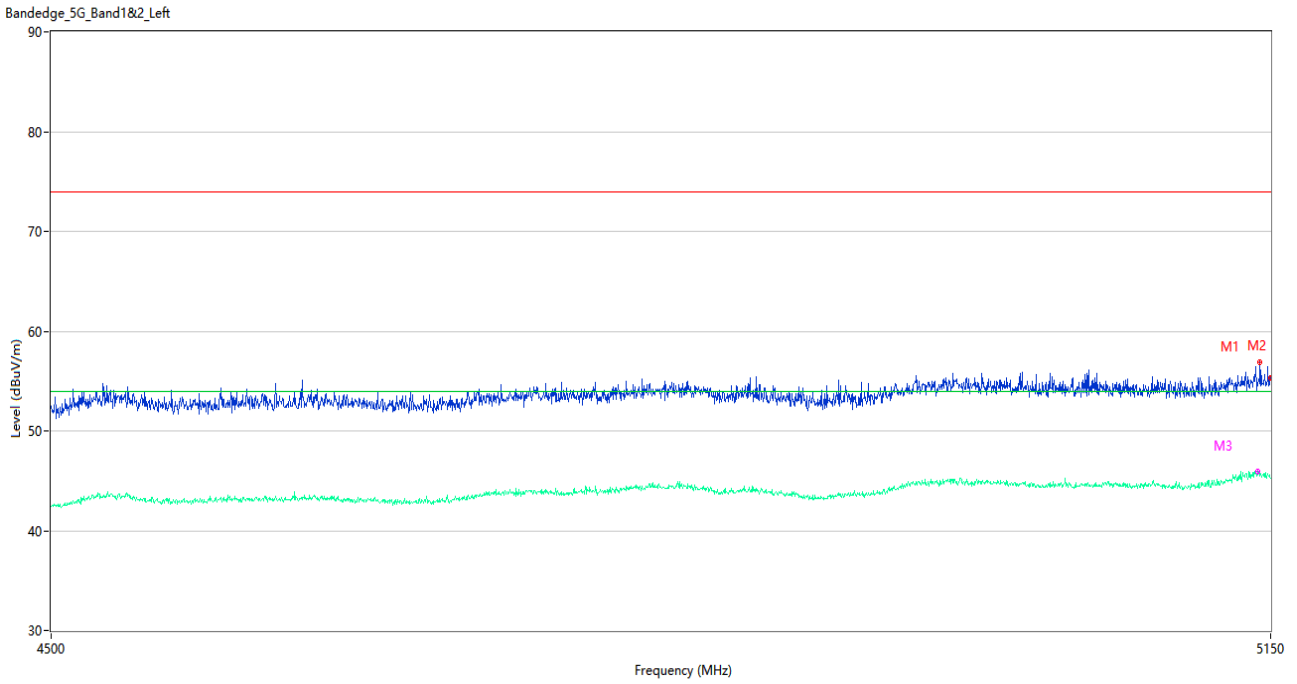
U-NII-1 11ac40 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.91	0.85	74.0	19.09	Peak	41.00	150	Horizontal	Pass
1**	5350.000	44.03	0.85	54.0	9.97	AV	41.00	150	Horizontal	Pass
2	5451.383	57.16	1.27	74.0	16.84	Peak	10.00	100	Horizontal	Pass
2**	5451.383	44.51	1.27	54.0	9.49	AV	10.00	100	Horizontal	Pass
3	5452.116	55.14	1.28	74.0	18.86	Peak	343.00	150	Horizontal	Pass
3**	5452.116	44.68	1.28	54.0	9.32	AV	343.00	150	Horizontal	Pass

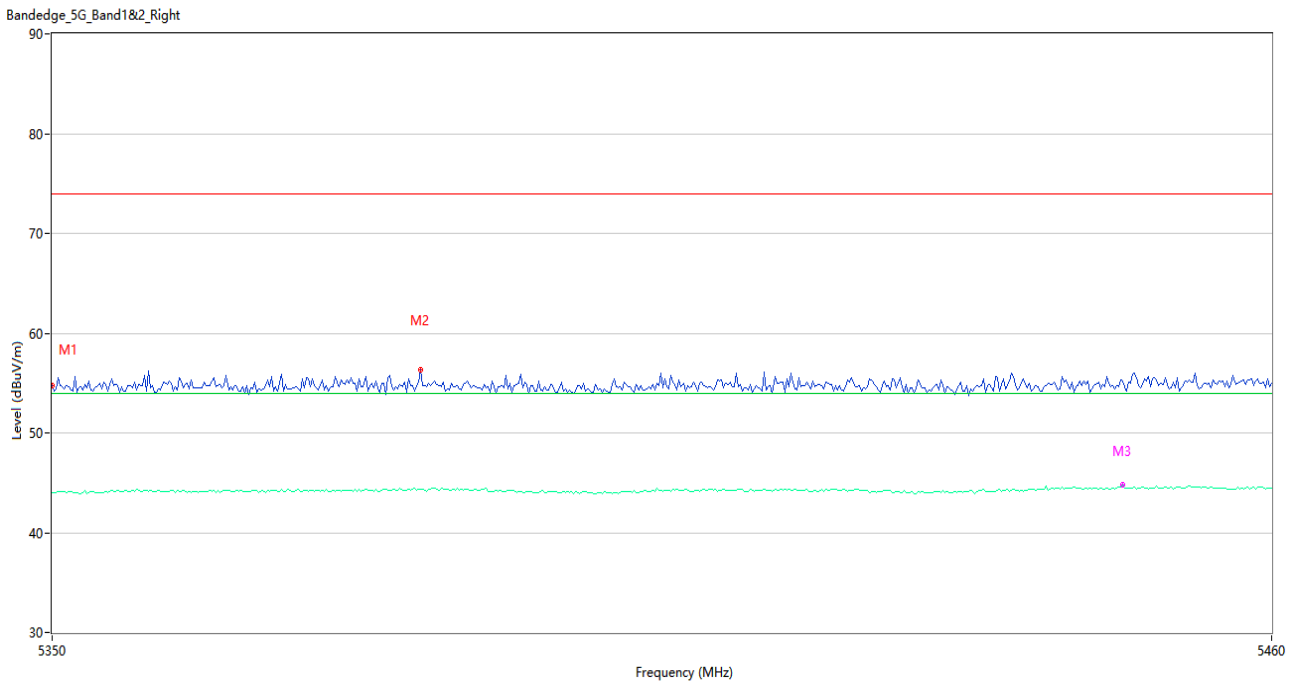


U-NII-1 11ac80 Middle Channel



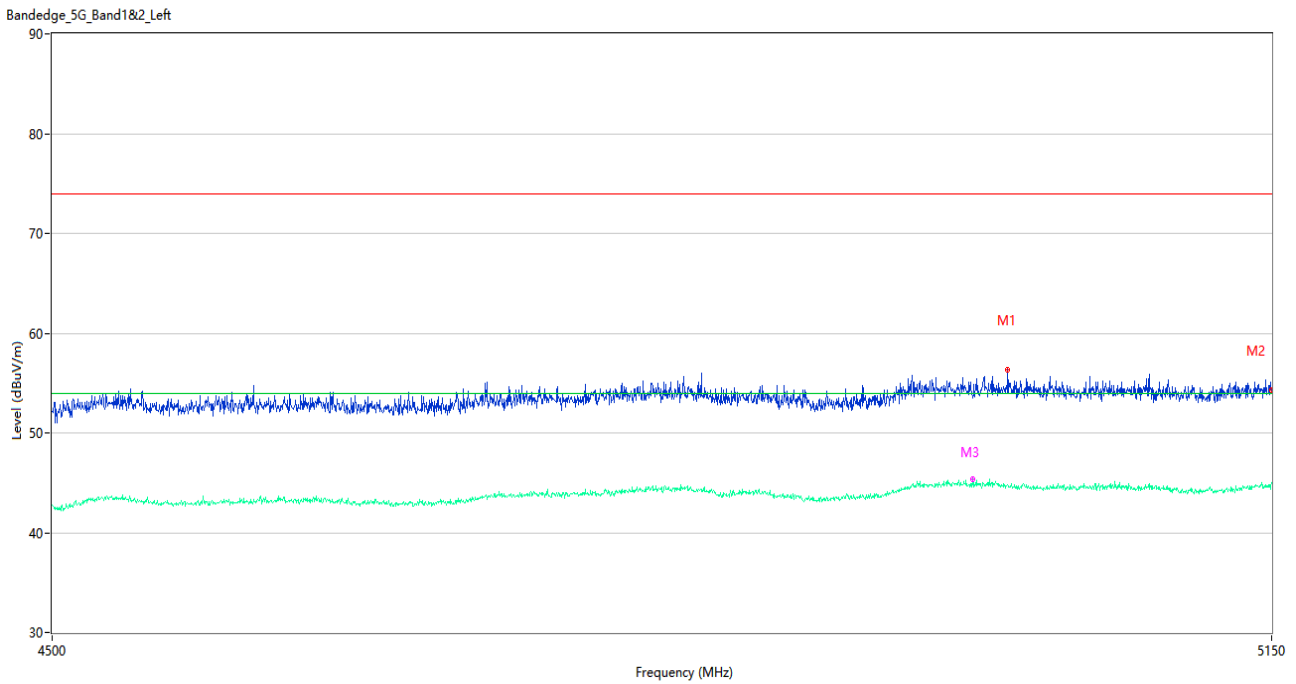
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5143.825	56.89	0.93	74.0	17.11	Peak	49.00	200	Horizontal	Pass
1**	5143.825	45.77	0.93	54.0	8.23	AV	49.00	200	Horizontal	Pass
2	5150.000	55.30	0.84	74.0	18.70	Peak	203.00	200	Horizontal	Pass
2**	5150.000	45.24	0.84	54.0	8.76	AV	203.00	200	Horizontal	Pass
3	5142.525	54.86	0.92	74.0	19.14	Peak	157.00	150	Horizontal	Pass
3**	5142.525	45.96	0.92	54.0	8.04	AV	157.00	150	Horizontal	Pass

U-NII-1 11ac80 Middle Channel



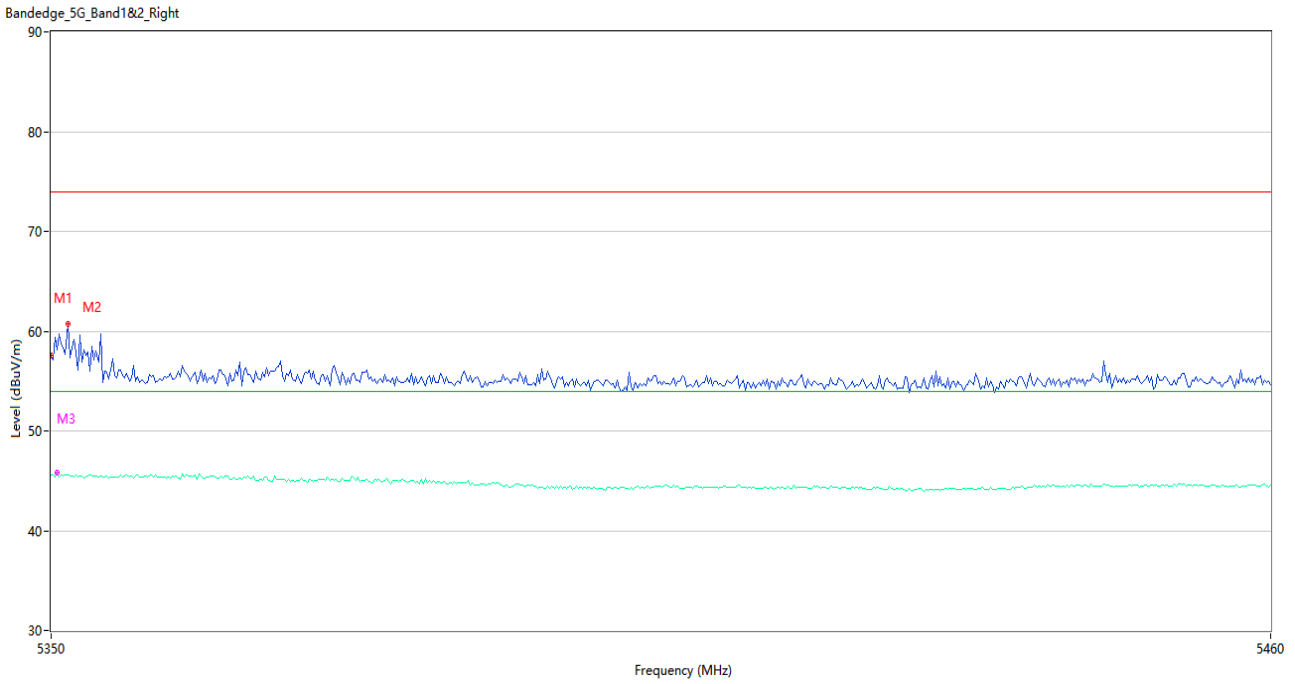
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.71	0.85	74.0	19.29	Peak	66.00	150	Horizontal	Pass
1**	5350.000	43.98	0.85	54.0	10.02	AV	66.00	150	Horizontal	Pass
2	5383.000	56.29	0.87	74.0	17.71	Peak	310.00	200	Horizontal	Pass
2**	5383.000	44.35	0.87	54.0	9.65	AV	310.00	200	Horizontal	Pass
3	5446.433	55.17	1.25	74.0	18.83	Peak	267.00	150	Horizontal	Pass
3**	5446.433	44.75	1.25	54.0	9.25	AV	267.00	150	Horizontal	Pass

U-NII-2A 11a Low Channel



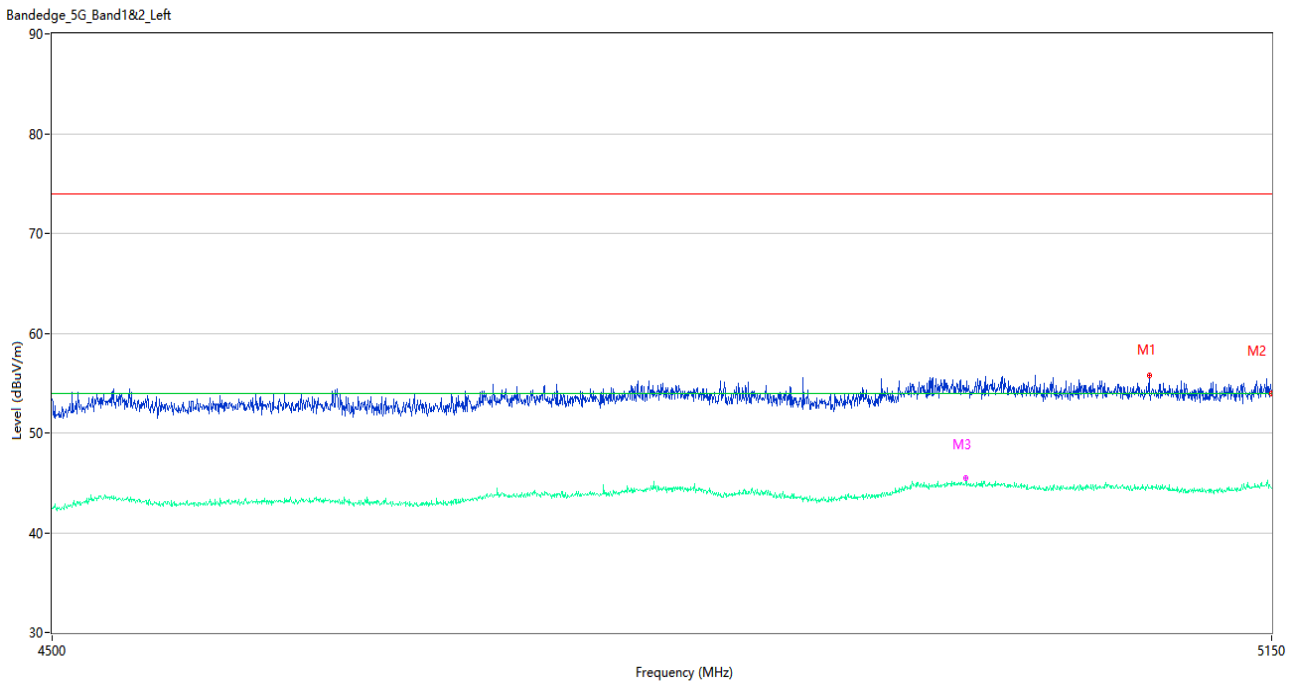
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5001.800	56.31	1.71	74.0	17.69	Peak	53.00	150	Horizontal	Pass
1**	5001.800	44.86	1.71	54.0	9.14	AV	53.00	150	Horizontal	Pass
2	5150.000	54.32	0.84	74.0	19.68	Peak	317.00	100	Horizontal	Pass
2**	5150.000	45.01	0.84	54.0	8.99	AV	317.00	100	Horizontal	Pass
3	4982.300	53.68	1.79	74.0	20.32	Peak	199.00	150	Horizontal	Pass
3**	4982.300	45.37	1.79	54.0	8.63	AV	199.00	150	Horizontal	Pass

U-NII-2A 11a High Channel



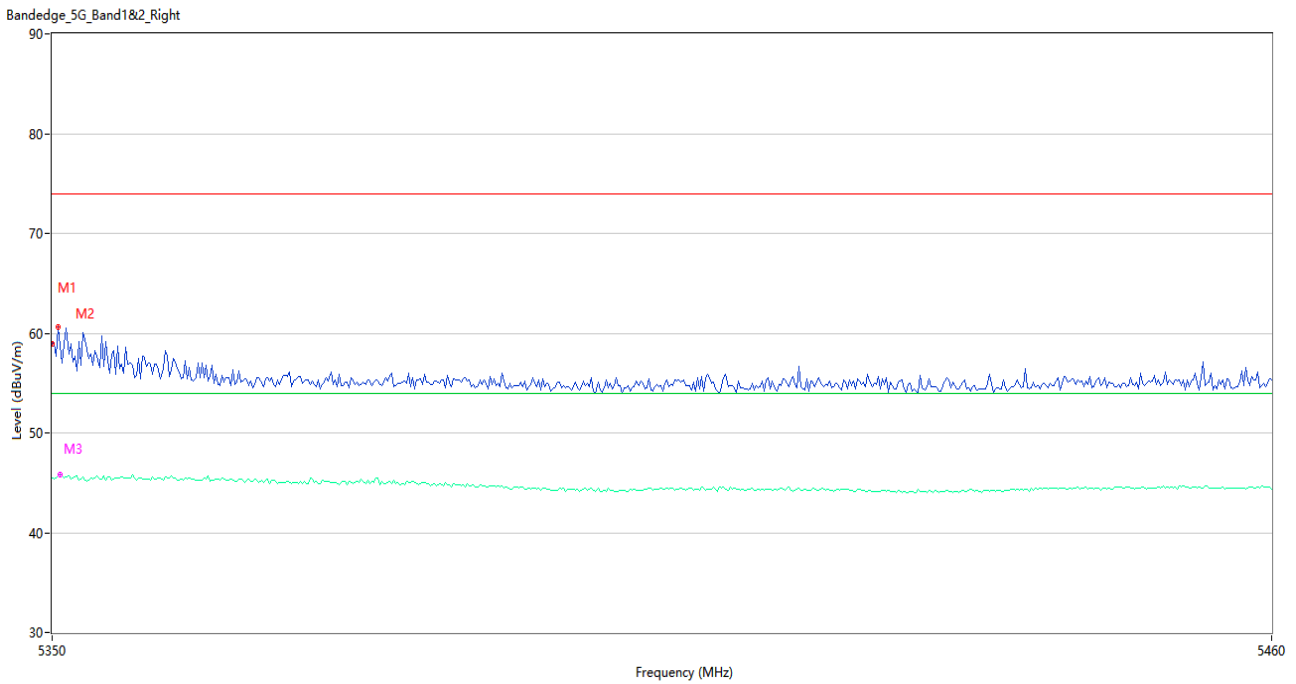
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	57.62	0.85	74.0	16.38	Peak	140.00	150	Horizontal	Pass
1**	5350.000	45.59	0.85	54.0	8.41	AV	140.00	150	Horizontal	Pass
2	5351.467	60.68	0.85	74.0	13.32	Peak	157.00	150	Horizontal	Pass
2**	5351.467	45.62	0.85	54.0	8.38	AV	157.00	150	Horizontal	Pass
3	5350.550	58.17	0.87	74.0	15.83	Peak	132.00	150	Horizontal	Pass
3**	5350.550	45.82	0.87	54.0	8.18	AV	132.00	150	Horizontal	Pass

U-NII-2A 11n20 Low Channel



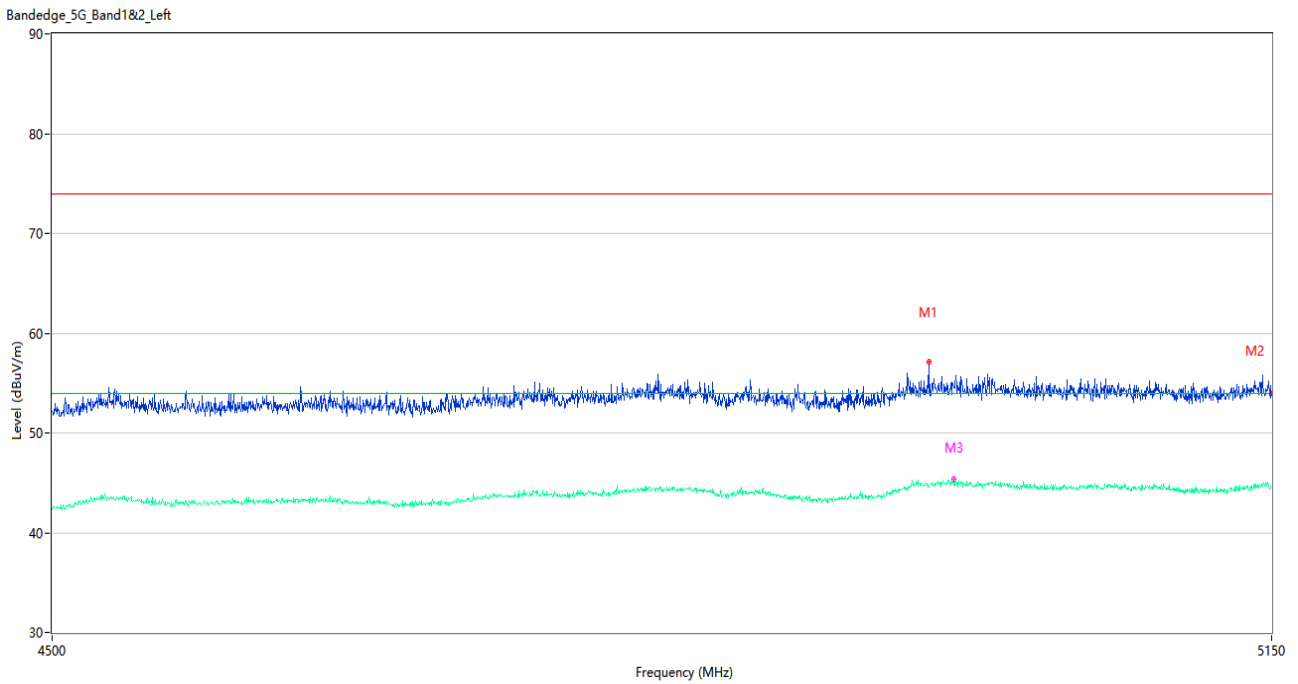
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5080.775	55.75	0.90	74.0	18.25	Peak	259.00	100	Horizontal	Pass
1**	5080.775	44.51	0.90	54.0	9.49	AV	259.00	100	Horizontal	Pass
2	5150.000	53.97	0.84	74.0	20.03	Peak	345.00	150	Horizontal	Pass
2**	5150.000	44.48	0.84	54.0	9.52	AV	345.00	150	Horizontal	Pass
3	4978.725	53.96	1.85	74.0	20.04	Peak	208.00	150	Horizontal	Pass
3**	4978.725	45.48	1.85	54.0	8.52	AV	208.00	150	Horizontal	Pass

U-NII-2A 11n20 High Channel



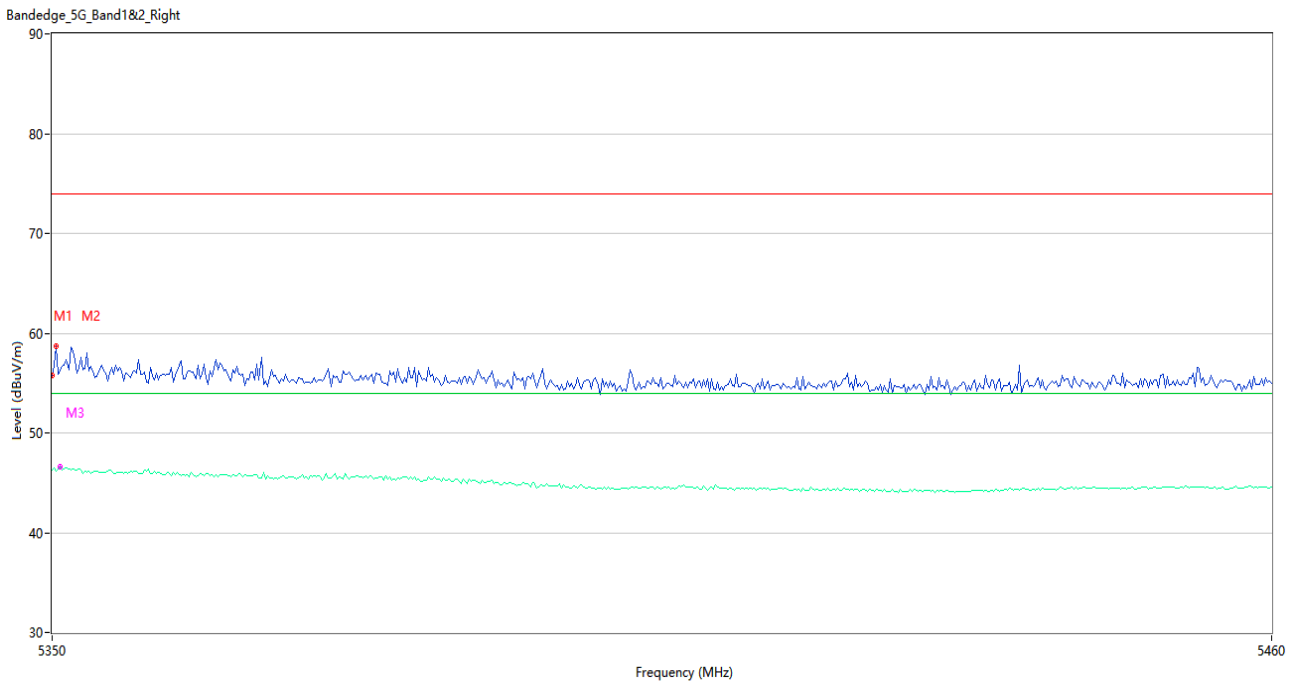
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	58.89	0.85	74.0	15.11	Peak	160.00	100	Horizontal	Pass
1**	5350.000	45.53	0.85	54.0	8.47	AV	160.00	100	Horizontal	Pass
2	5350.550	60.66	0.87	74.0	13.34	Peak	170.00	150	Horizontal	Pass
2**	5350.550	45.66	0.87	54.0	8.34	AV	170.00	150	Horizontal	Pass
3	5350.733	58.65	0.87	74.0	15.35	Peak	162.00	150	Horizontal	Pass
3**	5350.733	45.82	0.87	54.0	8.18	AV	162.00	150	Horizontal	Pass

U-NII-2A 11n40 Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4958.250	57.07	2.20	74.0	16.93	Peak	133.00	200	Horizontal	Pass
1**	4958.250	44.74	2.20	54.0	9.26	AV	133.00	200	Horizontal	Pass
2	5150.000	53.99	0.84	74.0	20.01	Peak	167.00	200	Horizontal	Pass
2**	5150.000	44.48	0.84	54.0	9.52	AV	167.00	200	Horizontal	Pass
3	4971.900	54.50	1.97	74.0	19.50	Peak	179.00	150	Horizontal	Pass
3**	4971.900	45.40	1.97	54.0	8.60	AV	179.00	150	Horizontal	Pass

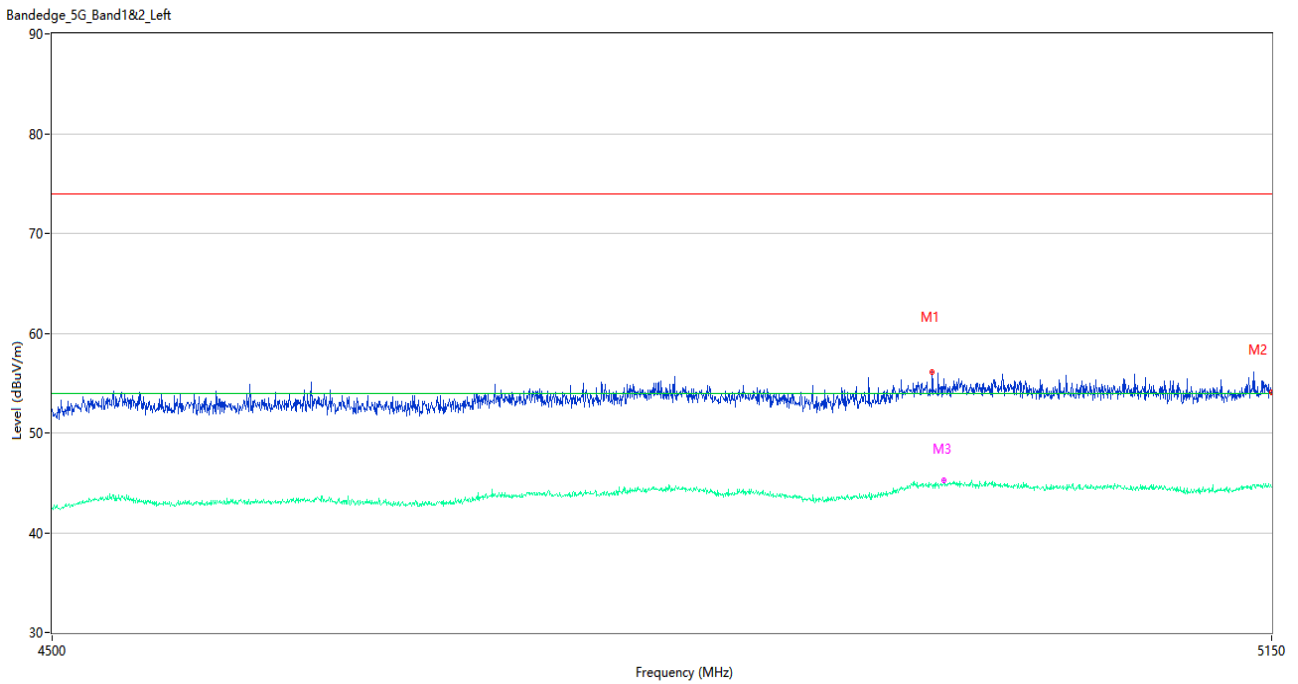
U-NII-2A 11n40 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.78	0.85	74.0	18.22	Peak	173.00	100	Horizontal	Pass
1**	5350.000	46.29	0.85	54.0	7.71	AV	173.00	100	Horizontal	Pass
2	5350.367	58.69	0.86	74.0	15.31	Peak	173.00	200	Horizontal	Pass
2**	5350.367	46.20	0.86	54.0	7.80	AV	173.00	200	Horizontal	Pass
3	5350.733	56.19	0.87	74.0	17.81	Peak	153.00	150	Horizontal	Pass
3**	5350.733	46.62	0.87	54.0	7.38	AV	153.00	150	Horizontal	Pass

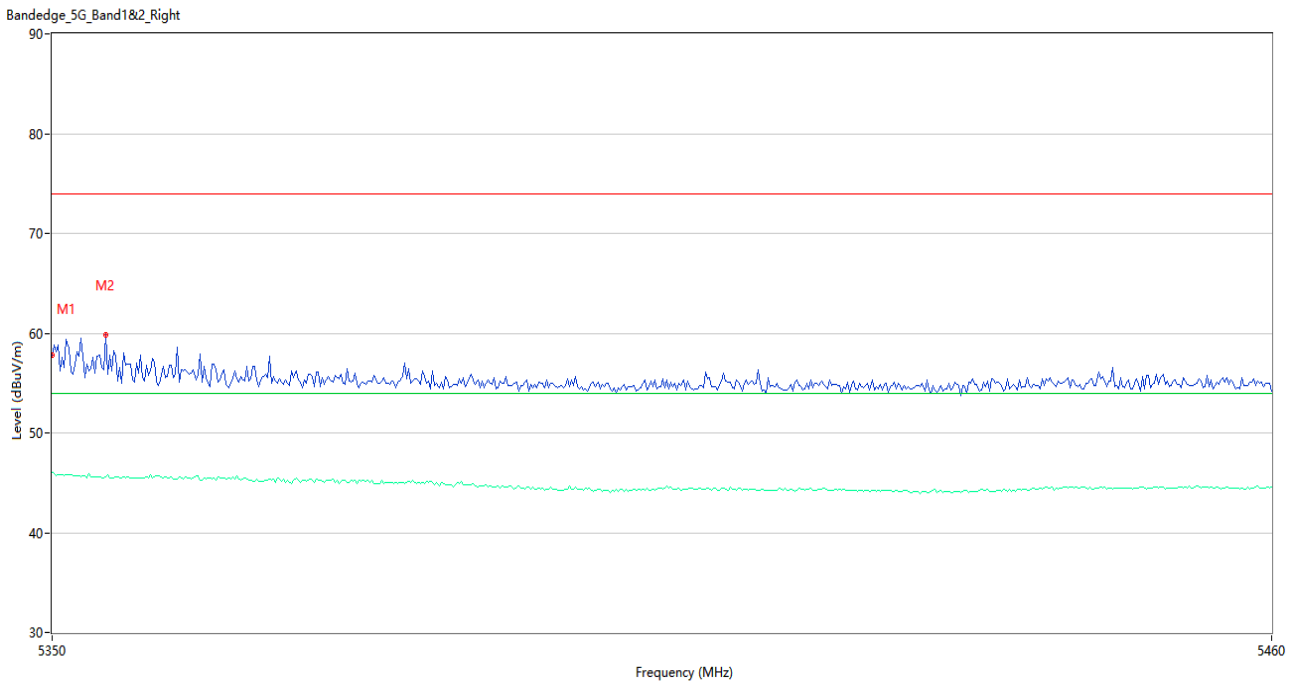


U-NII-2A 11ac20 Low Channel



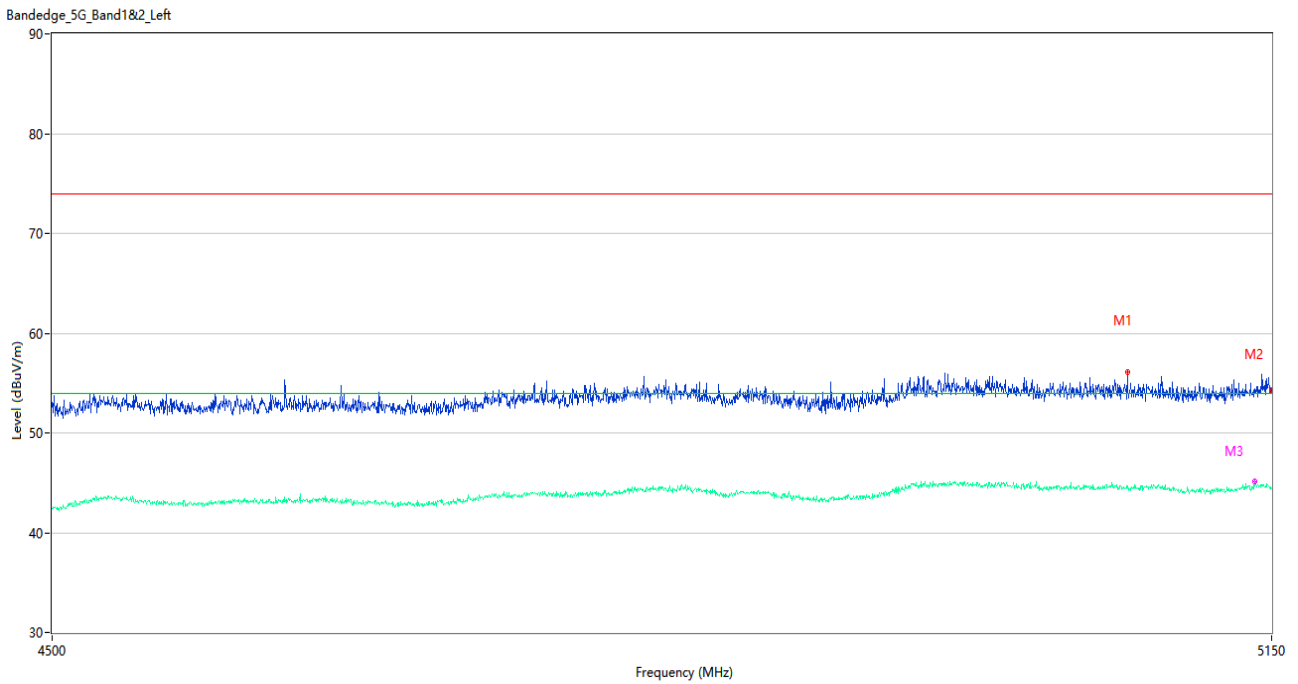
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4960.200	56.07	2.15	74.0	17.93	Peak	354.00	100	Horizontal	Pass
1**	4960.200	44.64	2.15	54.0	9.36	AV	354.00	100	Horizontal	Pass
2	5150.000	54.02	0.84	74.0	19.98	Peak	140.00	100	Horizontal	Pass
2**	5150.000	44.61	0.84	54.0	9.39	AV	140.00	100	Horizontal	Pass
3	4966.700	54.38	2.00	74.0	19.62	Peak	284.00	150	Horizontal	Pass
3**	4966.700	45.28	2.00	54.0	8.72	AV	284.00	150	Horizontal	Pass

U-NII-2A 11ac20 High Channel



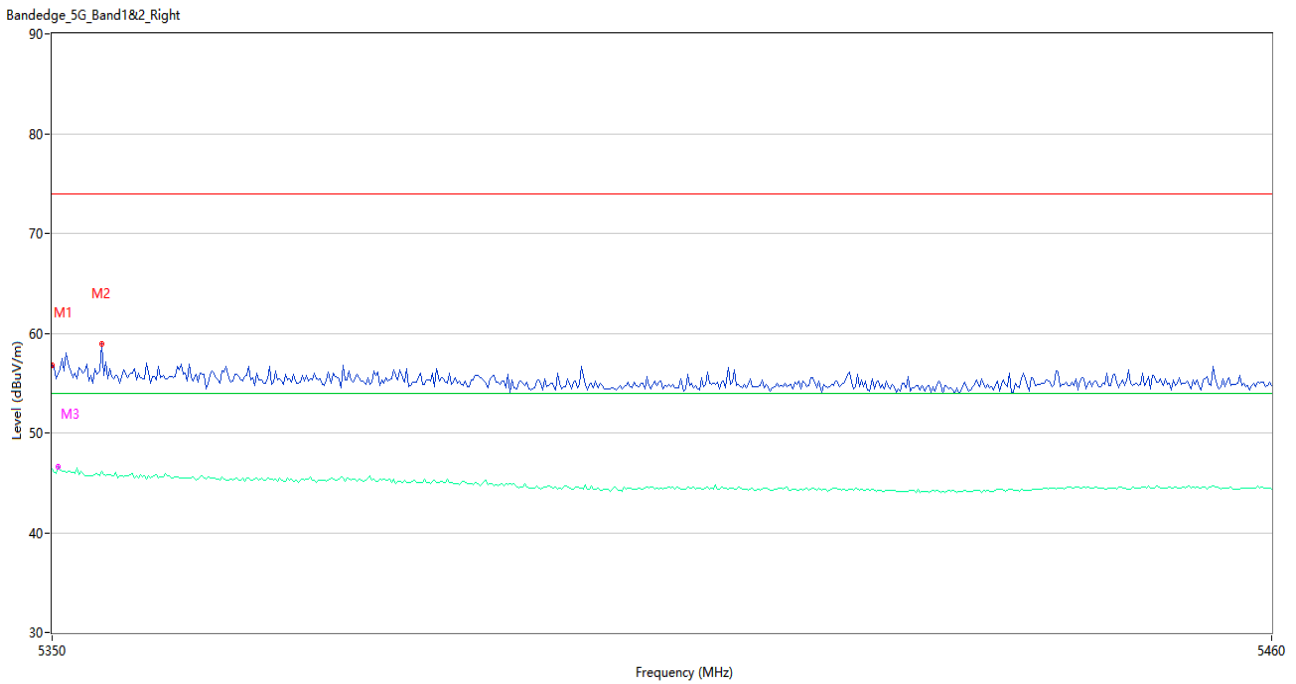
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	57.78	0.85	74.0	16.22	Peak	148.00	100	Horizontal	Pass
1**	5350.000	46.06	0.85	54.0	7.94	AV	148.00	100	Horizontal	Pass
2	5354.767	59.82	0.82	74.0	14.18	Peak	167.00	100	Horizontal	Pass
2**	5354.767	45.62	0.82	54.0	8.38	AV	167.00	100	Horizontal	Pass

U-NII-2A 11ac40 Low Channel



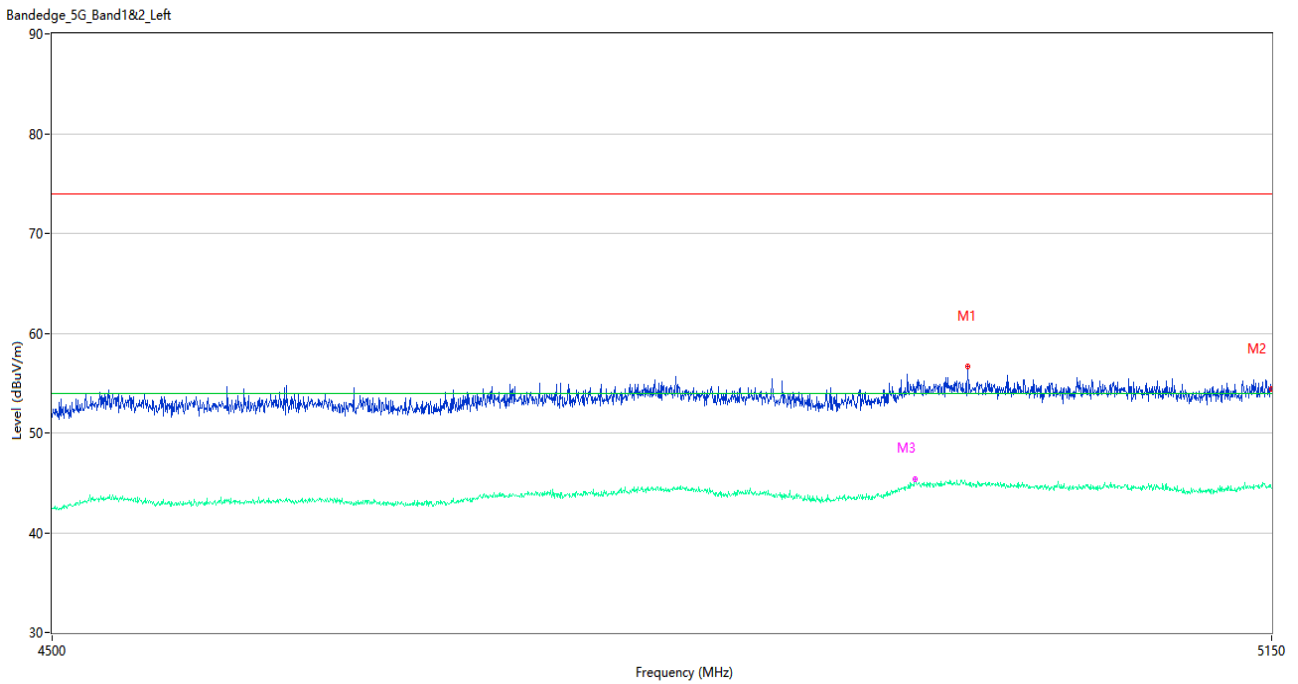
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5068.425	56.11	0.90	74.0	17.89	Peak	54.00	100	Horizontal	Pass
1**	5068.425	44.46	0.90	54.0	9.54	AV	54.00	100	Horizontal	Pass
2	5150.000	54.30	0.84	74.0	19.70	Peak	208.00	150	Horizontal	Pass
2**	5150.000	44.44	0.84	54.0	9.56	AV	208.00	150	Horizontal	Pass
3	5140.575	54.39	0.94	74.0	19.61	Peak	271.00	150	Horizontal	Pass
3**	5140.575	45.18	0.94	54.0	8.82	AV	271.00	150	Horizontal	Pass

U-NII-2A 11ac40 High Channel



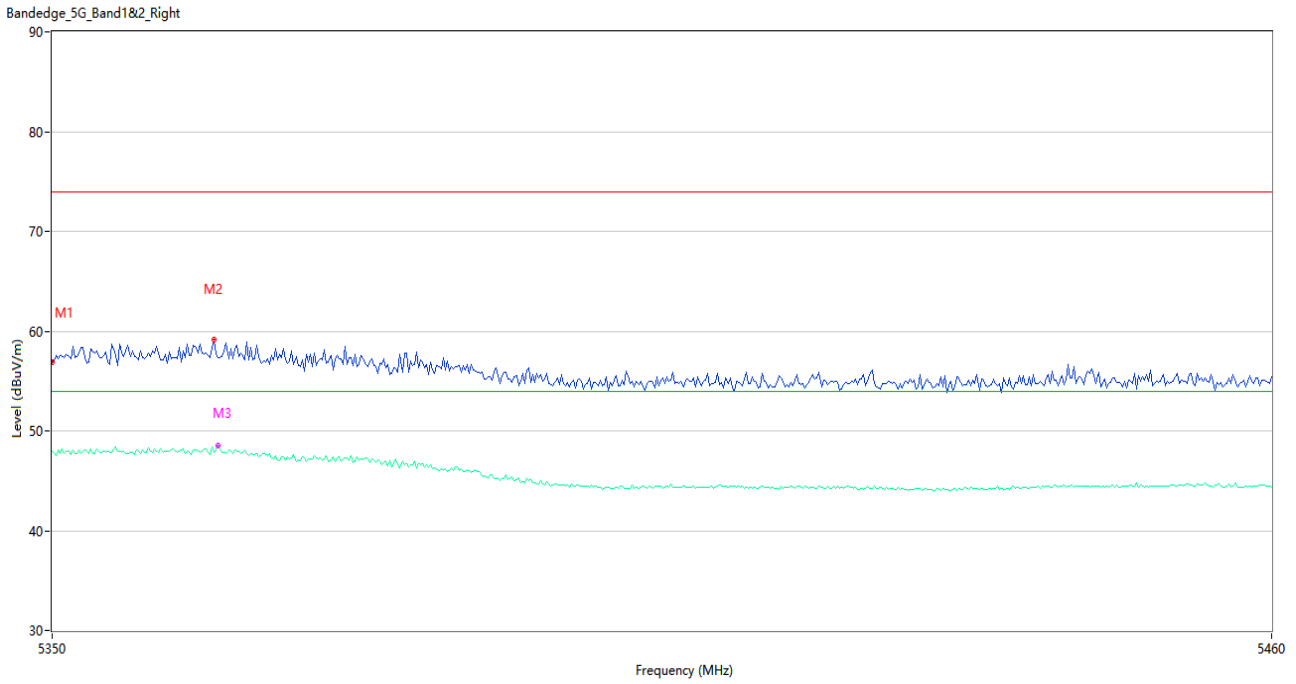
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.74	0.85	74.0	17.26	Peak	177.00	150	Horizontal	Pass
1**	5350.000	46.33	0.85	54.0	7.67	AV	177.00	150	Horizontal	Pass
2	5354.400	58.96	0.82	74.0	15.04	Peak	159.00	200	Horizontal	Pass
2**	5354.400	46.15	0.82	54.0	7.85	AV	159.00	200	Horizontal	Pass
3	5350.550	55.89	0.87	74.0	18.11	Peak	207.00	150	Horizontal	Pass
3**	5350.550	46.57	0.87	54.0	7.43	AV	207.00	150	Horizontal	Pass

U-NII-2A 11ac80 Middle Channel



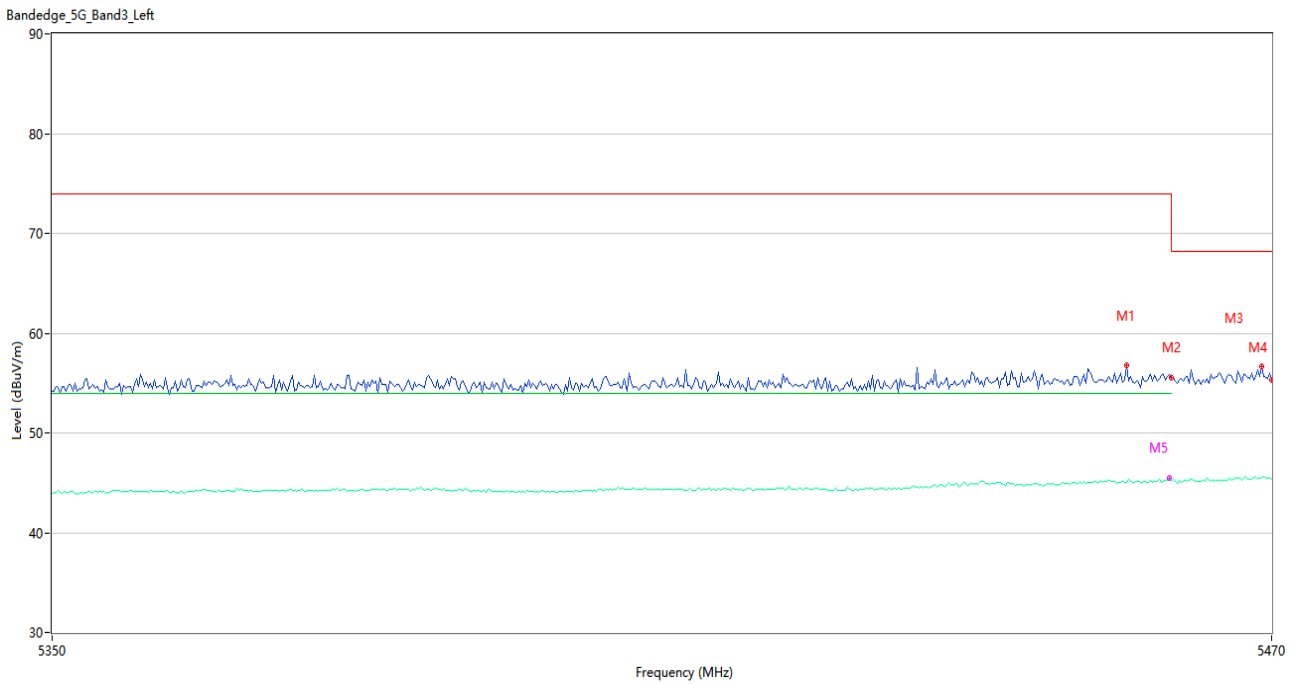
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4979.700	56.71	1.84	74.0	17.29	Peak	255.00	150	Horizontal	Pass
1**	4979.700	44.81	1.84	54.0	9.19	AV	255.00	150	Horizontal	Pass
2	5150.000	54.42	0.84	74.0	19.58	Peak	275.00	200	Horizontal	Pass
2**	5150.000	44.50	0.84	54.0	9.50	AV	275.00	200	Horizontal	Pass
3	4950.775	54.31	2.49	74.0	19.69	Peak	271.00	150	Horizontal	Pass
3**	4950.775	45.34	2.49	54.0	8.66	AV	271.00	150	Horizontal	Pass

U-NII-2A 11ac80 Middle Channel



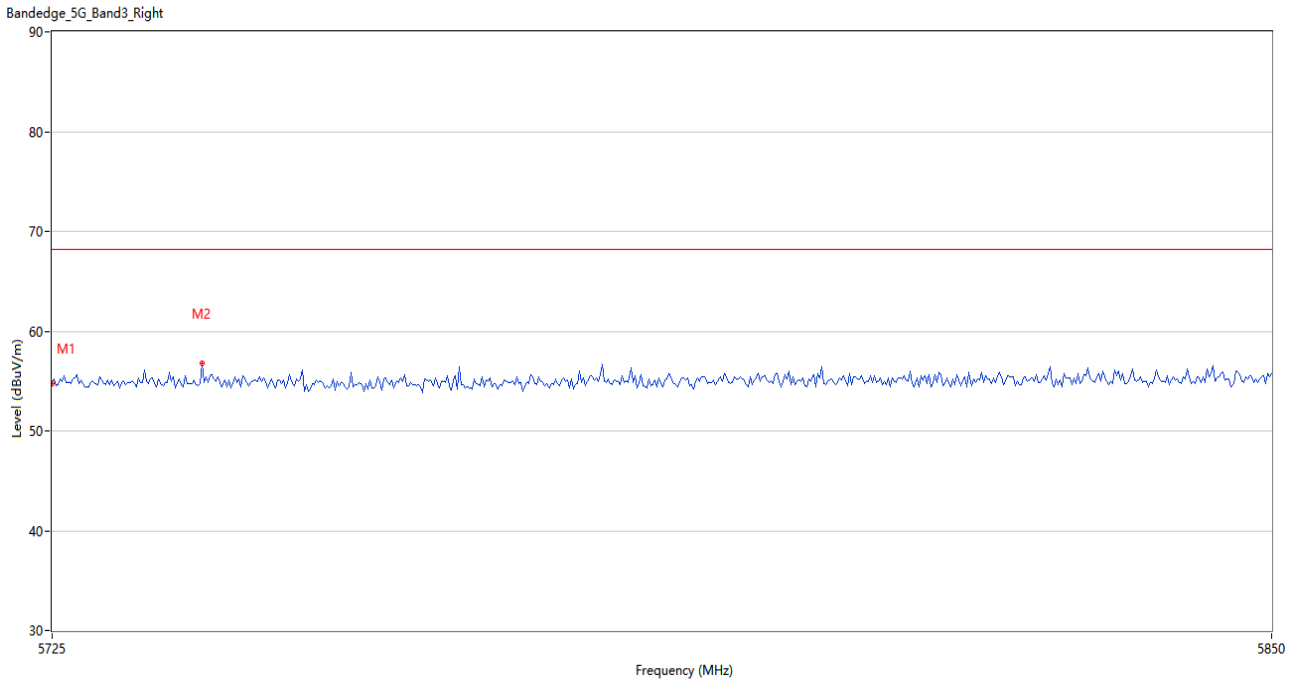
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.87	0.85	74.0	17.13	Peak	172.00	100	Horizontal	Pass
1**	5350.000	48.01	0.85	54.0	5.99	AV	172.00	100	Horizontal	Pass
2	5364.484	59.20	0.79	74.0	14.80	Peak	166.00	200	Horizontal	Pass
2**	5364.484	47.87	0.79	54.0	6.13	AV	166.00	200	Horizontal	Pass
3	5364.850	57.34	0.80	74.0	16.66	Peak	169.00	150	Horizontal	Pass
3**	5364.850	48.48	0.80	54.0	5.52	AV	169.00	150	Horizontal	Pass

U-NII-2C 11a Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5455.600	56.76	1.18	74.0	17.24	Peak	222.00	100	Horizontal	Pass
1**	5455.600	45.07	1.18	54.0	8.93	AV	222.00	100	Horizontal	Pass
2	5460.000	55.59	1.23	74.0	18.41	Peak	360.00	150	Horizontal	Pass
2**	5460.000	45.16	1.23	54.0	8.84	AV	360.00	150	Horizontal	Pass
3	5469.000	56.65	1.36	68.2	11.55	Peak	136.00	100	Horizontal	Pass
3**	5469.000	45.48	1.36	--	--	AV	136.00	100	Horizontal	N/A
4	5470.000	55.31	1.37	68.2	12.89	Peak	0.00	150	Horizontal	Pass
4**	5470.000	45.32	1.37	--	--	AV	0.00	150	Horizontal	N/A
5	5459.800	55.83	1.23	74.0	18.17	Peak	170.00	150	Horizontal	Pass
5**	5459.800	45.45	1.23	54.0	8.55	AV	170.00	150	Horizontal	Pass

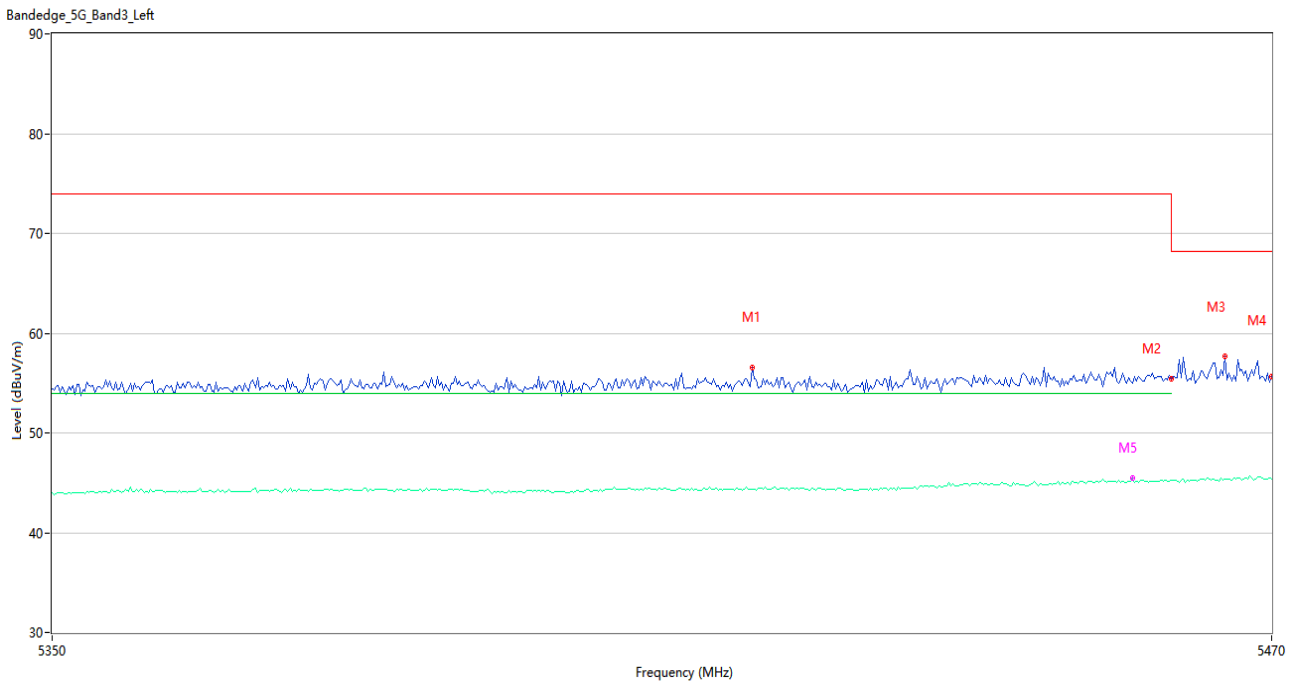
U-NII-2C 11a High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	54.76	0.63	68.2	13.44	Peak	69.00	100	Horizontal	Pass
2	5740.209	56.76	0.67	68.2	11.44	Peak	191.00	150	Horizontal	Pass

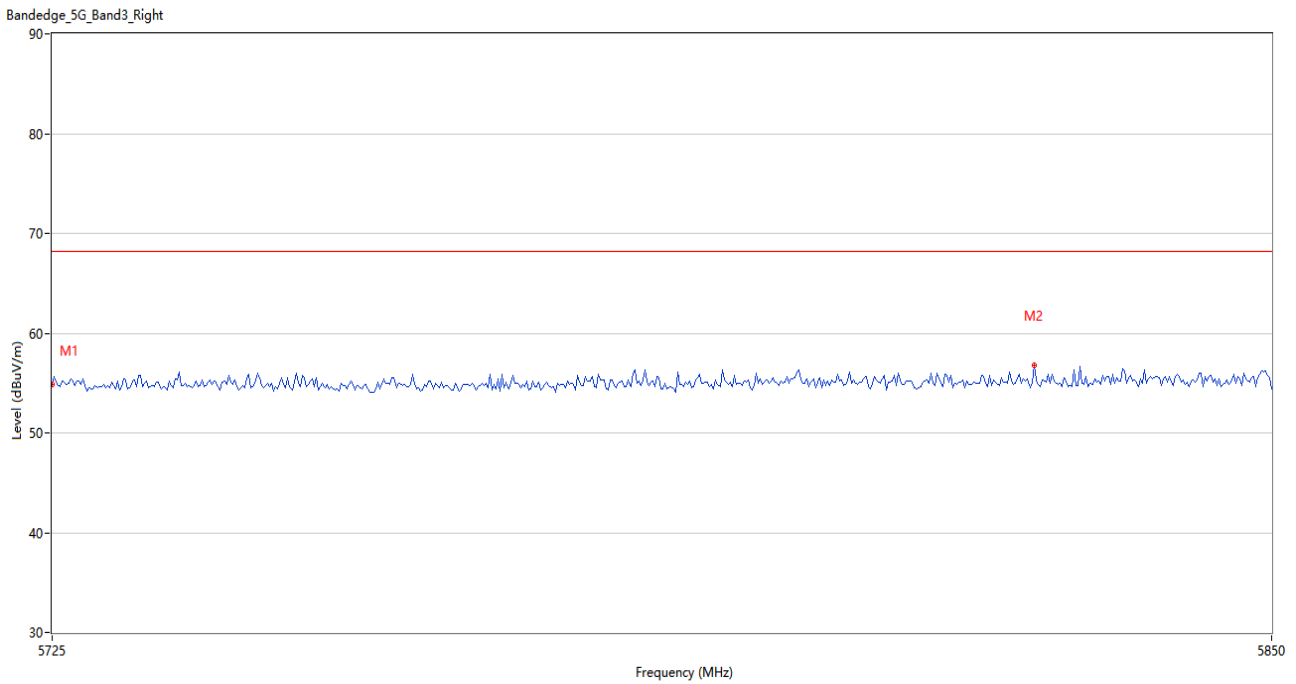


U-NII-2C 11n20 Low Channel



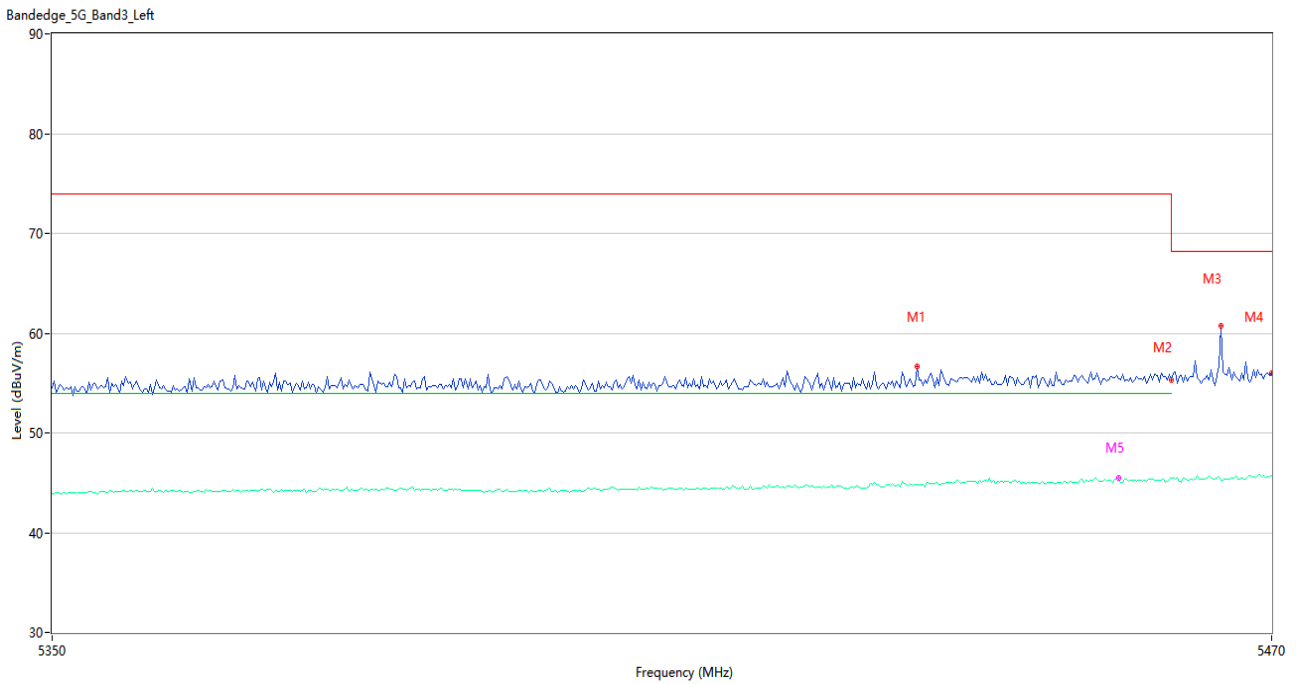
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5418.600	56.61	1.25	74.0	17.39	Peak	157.00	100	Horizontal	Pass
1**	5418.600	44.29	1.25	54.0	9.71	AV	157.00	100	Horizontal	Pass
2	5460.000	55.42	1.23	74.0	18.58	Peak	136.00	150	Horizontal	Pass
2**	5460.000	45.27	1.23	54.0	8.73	AV	136.00	150	Horizontal	Pass
3	5465.400	57.63	1.30	68.2	10.57	Peak	157.00	100	Horizontal	Pass
3**	5465.400	45.35	1.30	--	--	AV	157.00	100	Horizontal	N/A
4	5470.000	55.69	1.37	68.2	12.51	Peak	139.00	150	Horizontal	Pass
4**	5470.000	45.34	1.37	--	--	AV	139.00	150	Horizontal	N/A
5	5456.200	54.97	1.17	74.0	19.03	Peak	289.00	150	Horizontal	Pass
5**	5456.200	45.46	1.17	54.0	8.54	AV	289.00	150	Horizontal	Pass

U-NII-2C 11n20 High Channel



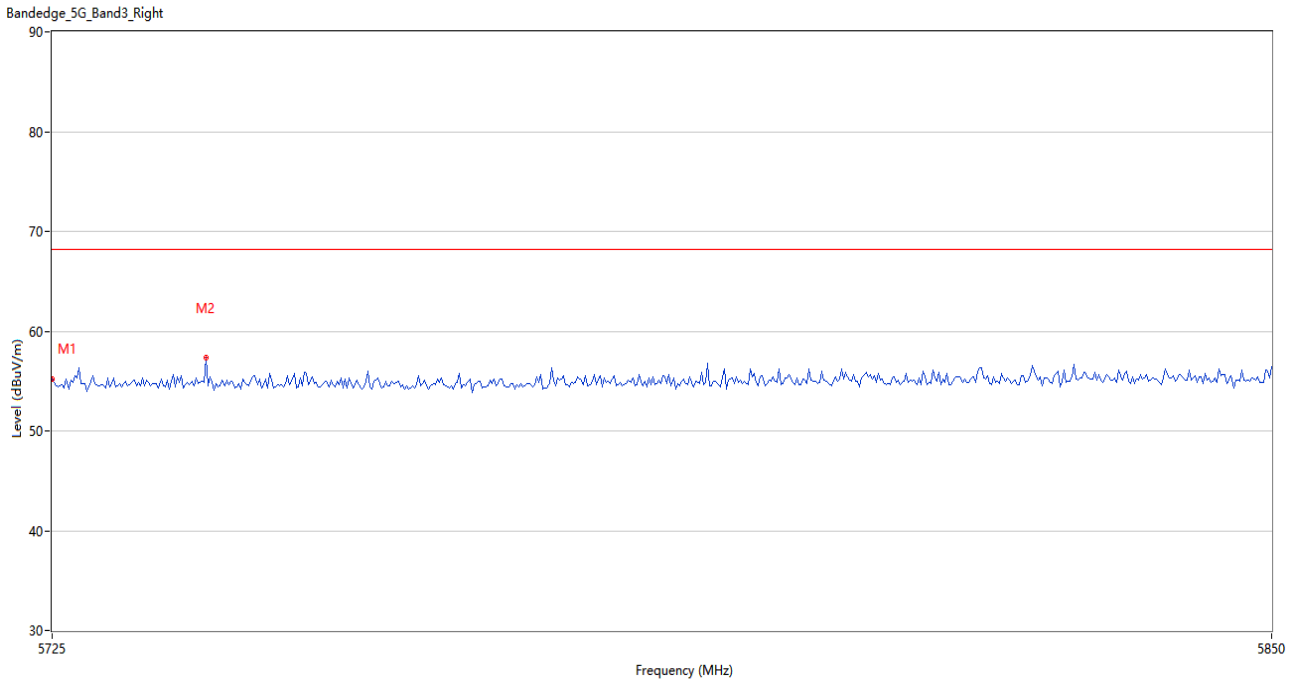
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	54.87	0.63	68.2	13.33	Peak	338.00	200	Horizontal	Pass
2	5825.417	56.78	1.24	68.2	11.42	Peak	151.00	150	Horizontal	Pass

U-NII-2C 11n40 Low Channel



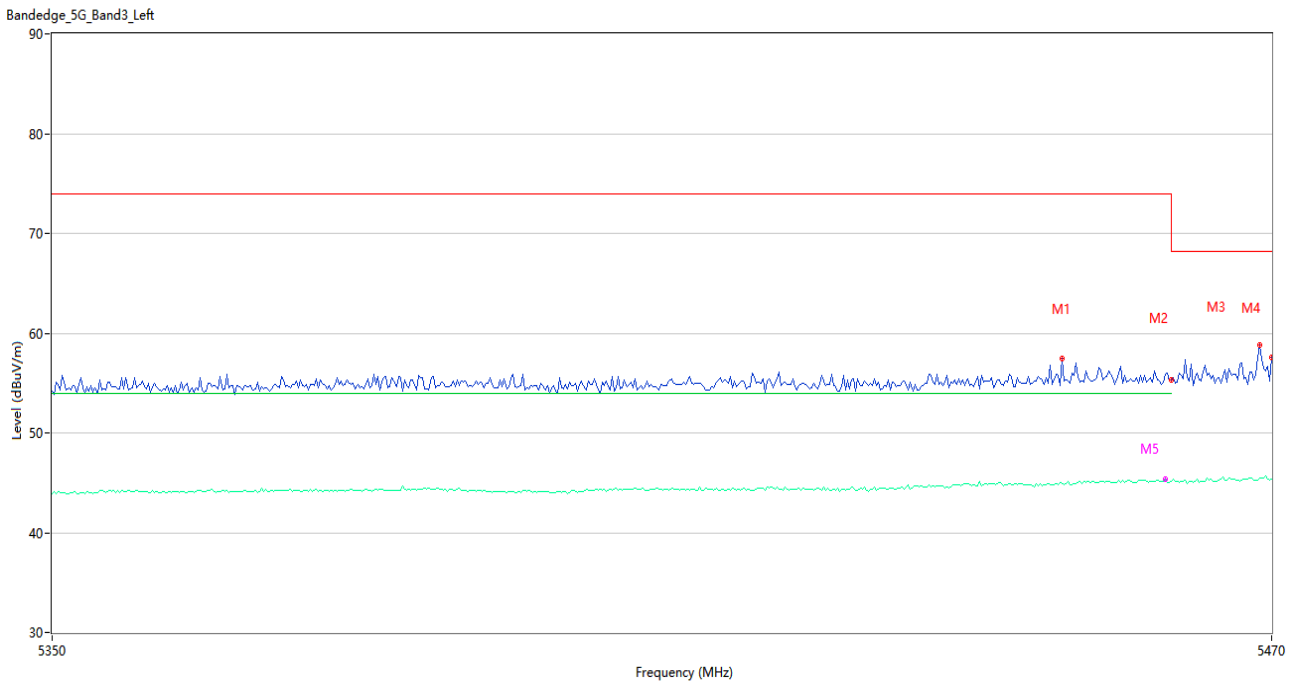
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5434.800	56.62	1.17	74.0	17.38	Peak	224.00	150	Horizontal	Pass
1**	5434.800	44.75	1.17	54.0	9.25	AV	224.00	150	Horizontal	Pass
2	5460.000	55.33	1.23	74.0	18.67	Peak	5.00	100	Horizontal	Pass
2**	5460.000	45.43	1.23	54.0	8.57	AV	5.00	100	Horizontal	Pass
3	5465.000	60.75	1.29	68.2	7.45	Peak	154.00	100	Horizontal	Pass
3**	5465.000	45.29	1.29	--	--	AV	154.00	100	Horizontal	N/A
4	5470.000	55.94	1.37	68.2	12.26	Peak	138.00	150	Horizontal	Pass
4**	5470.000	45.71	1.37	--	--	AV	138.00	150	Horizontal	N/A
5	5454.800	55.37	1.19	74.0	18.63	Peak	157.00	150	Horizontal	Pass
5**	5454.800	45.50	1.19	54.0	8.50	AV	157.00	150	Horizontal	Pass

U-NII-2C 11n40 High Channel



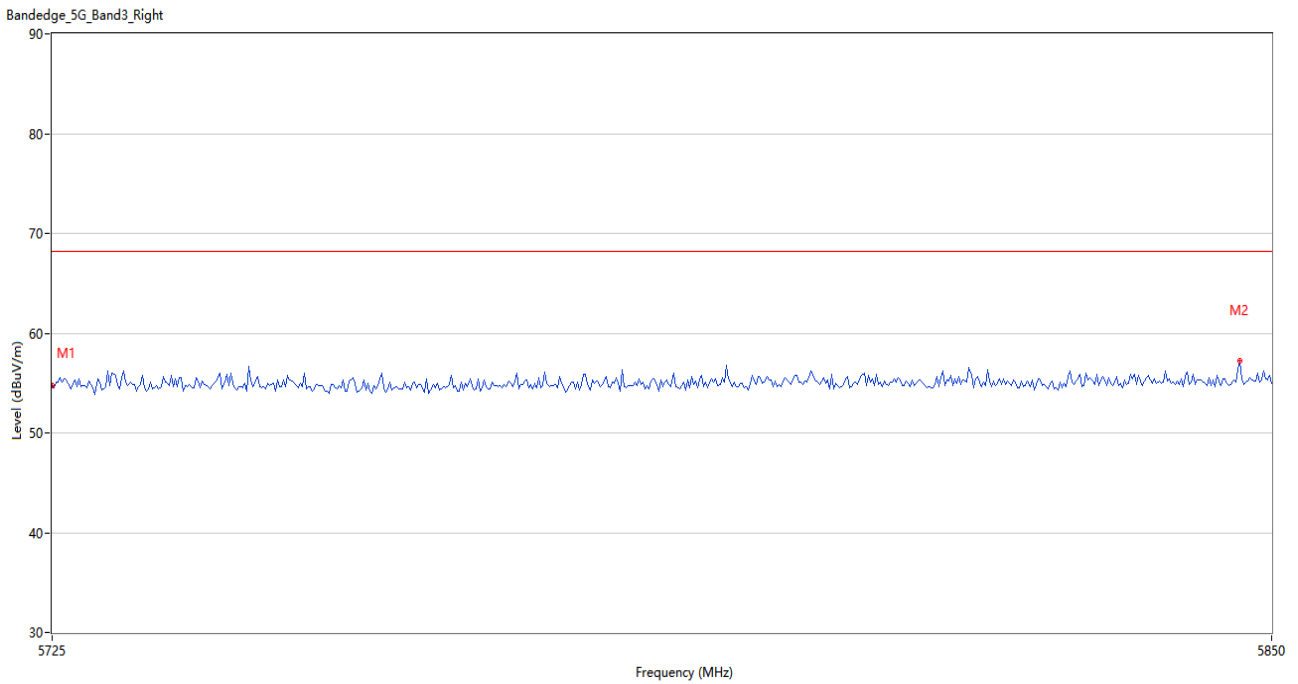
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	55.18	0.63	68.2	13.02	Peak	149.00	150	Horizontal	Pass
2	5740.625	57.36	0.68	68.2	10.84	Peak	32.00	100	Horizontal	Pass

U-NII-2C 11ac20 Low Channel



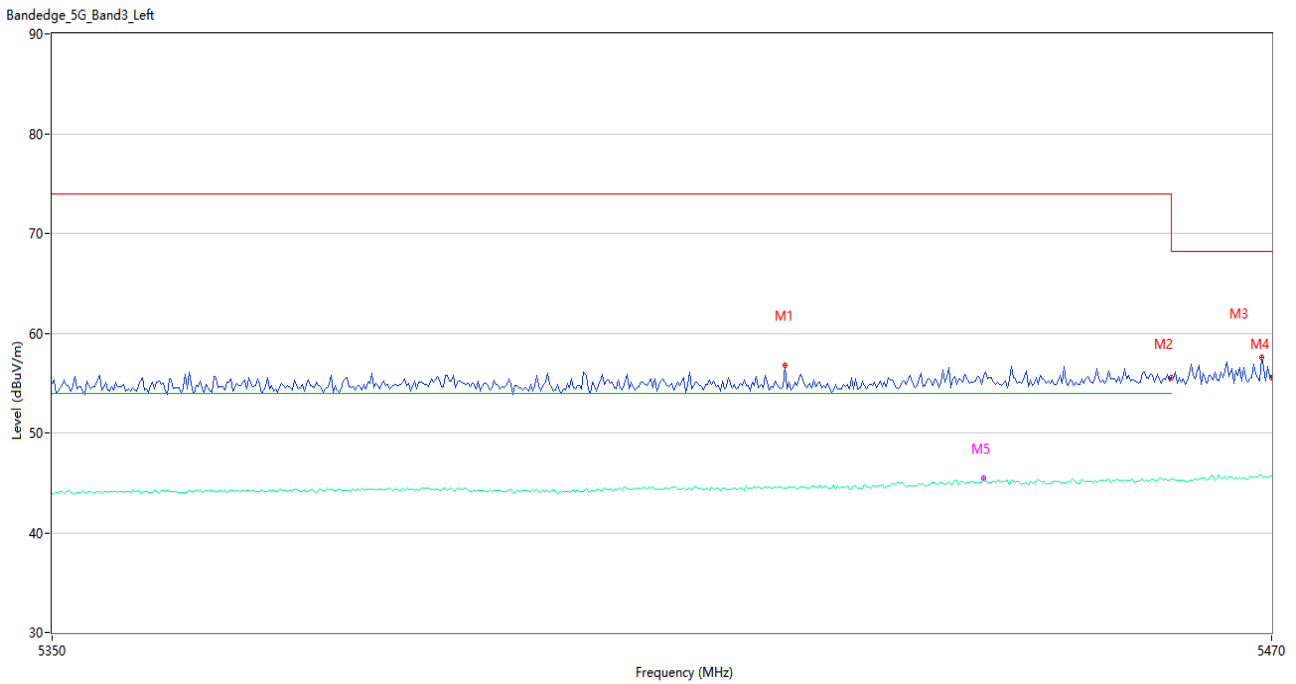
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5449.200	57.41	1.26	74.0	16.59	Peak	170.00	200	Horizontal	Pass
1**	5449.200	44.90	1.26	54.0	9.10	AV	170.00	200	Horizontal	Pass
2	5460.000	55.36	1.23	74.0	18.64	Peak	127.00	200	Horizontal	Pass
2**	5460.000	45.09	1.23	54.0	8.91	AV	127.00	200	Horizontal	Pass
3	5468.800	58.86	1.35	68.2	9.34	Peak	156.00	100	Horizontal	Pass
3**	5468.800	45.49	1.35	--	--	AV	156.00	100	Horizontal	N/A
4	5470.000	57.59	1.37	68.2	10.61	Peak	156.00	100	Horizontal	Pass
4**	5470.000	45.37	1.37	--	--	AV	156.00	100	Horizontal	N/A
5	5459.400	55.88	1.24	74.0	18.12	Peak	196.00	150	Horizontal	Pass
5**	5459.400	45.32	1.24	54.0	8.68	AV	196.00	150	Horizontal	Pass

U-NII-2C 11ac20 High Channel



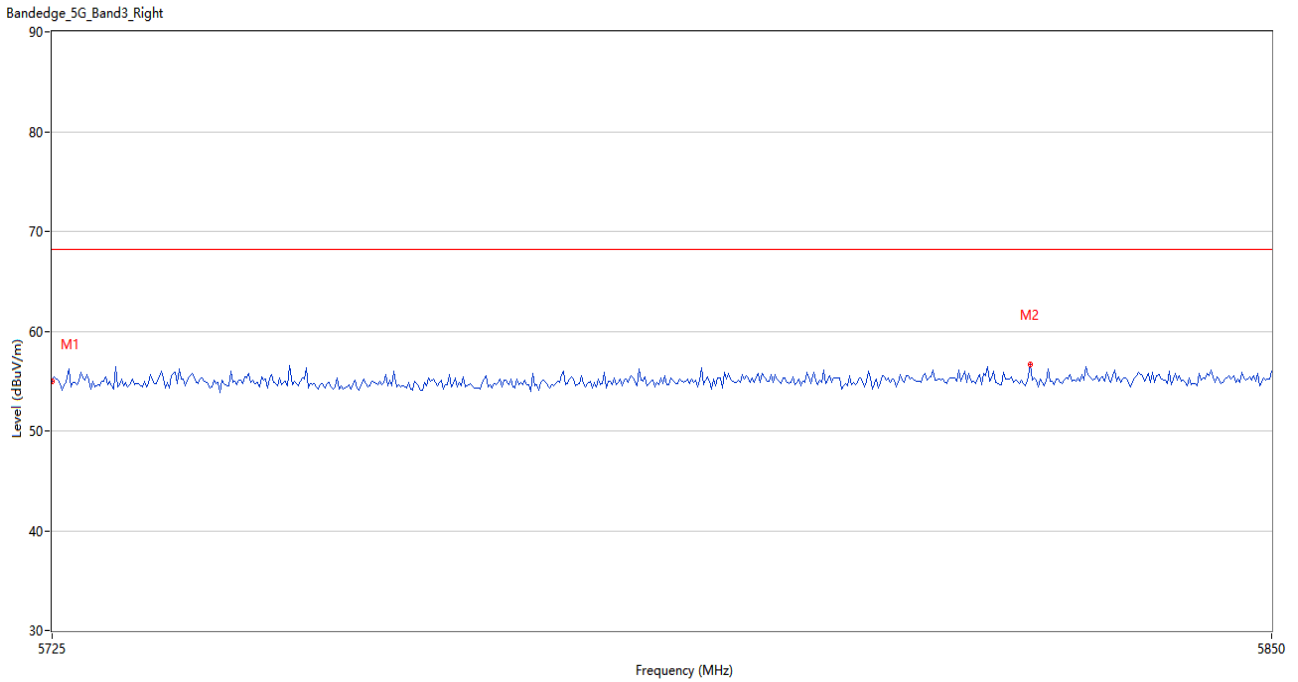
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	54.74	0.63	68.2	13.46	Peak	173.00	200	Horizontal	Pass
2	5846.667	57.28	1.25	68.2	10.92	Peak	72.00	200	Horizontal	Pass

U-NII-2C 11ac40 Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5421.800	56.80	1.23	74.0	17.20	Peak	279.00	200	Horizontal	Pass
1**	5421.800	44.46	1.23	54.0	9.54	AV	279.00	200	Horizontal	Pass
2	5460.000	55.49	1.23	74.0	18.51	Peak	35.00	150	Horizontal	Pass
2**	5460.000	45.33	1.23	54.0	8.67	AV	35.00	150	Horizontal	Pass
3	5469.000	57.57	1.36	68.2	10.63	Peak	176.00	100	Horizontal	Pass
3**	5469.000	45.75	1.36	--	--	AV	176.00	100	Horizontal	N/A
4	5470.000	55.55	1.37	68.2	12.65	Peak	106.00	200	Horizontal	Pass
4**	5470.000	45.66	1.37	--	--	AV	106.00	200	Horizontal	N/A
5	5441.400	55.68	1.30	74.0	18.32	Peak	27.00	150	Horizontal	Pass
5**	5441.400	45.44	1.30	54.0	8.56	AV	27.00	150	Horizontal	Pass

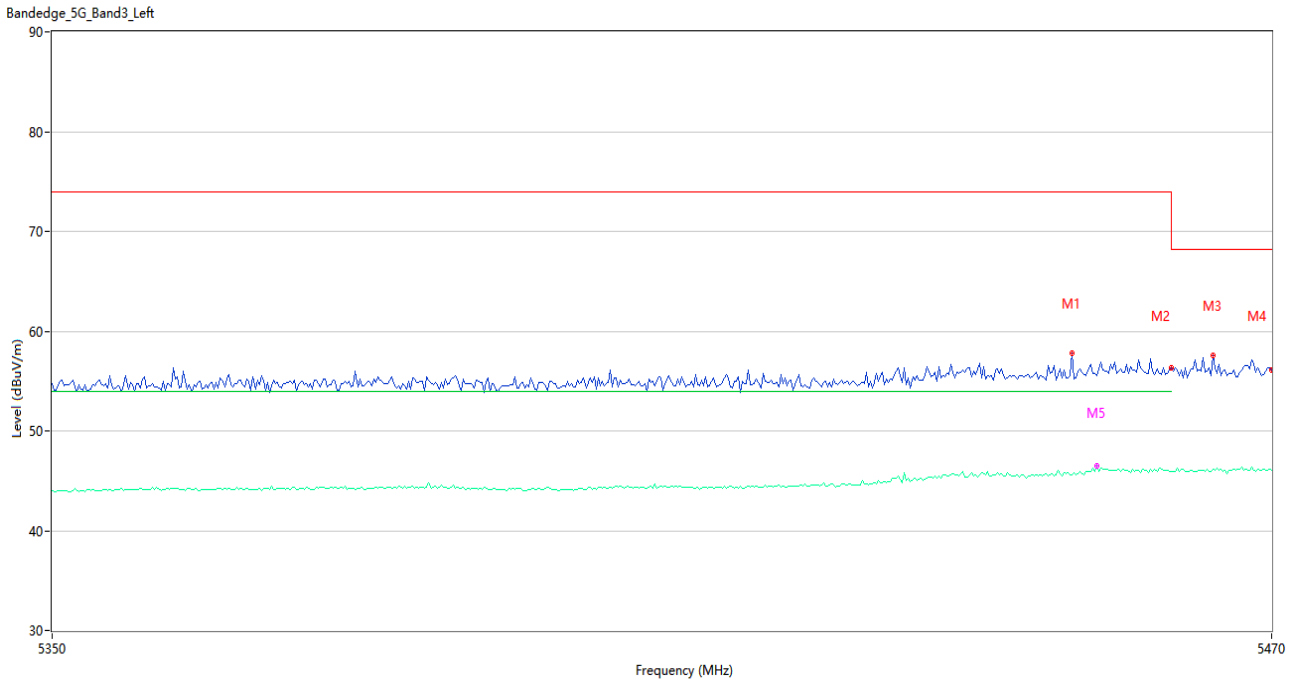
U-NII-2C 11ac40 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	54.99	0.63	68.2	13.21	Peak	2.00	150	Horizontal	Pass
2	5825.000	56.61	1.25	68.2	11.59	Peak	283.00	100	Horizontal	Pass



U-NII-2C 11ac80 Low Channel



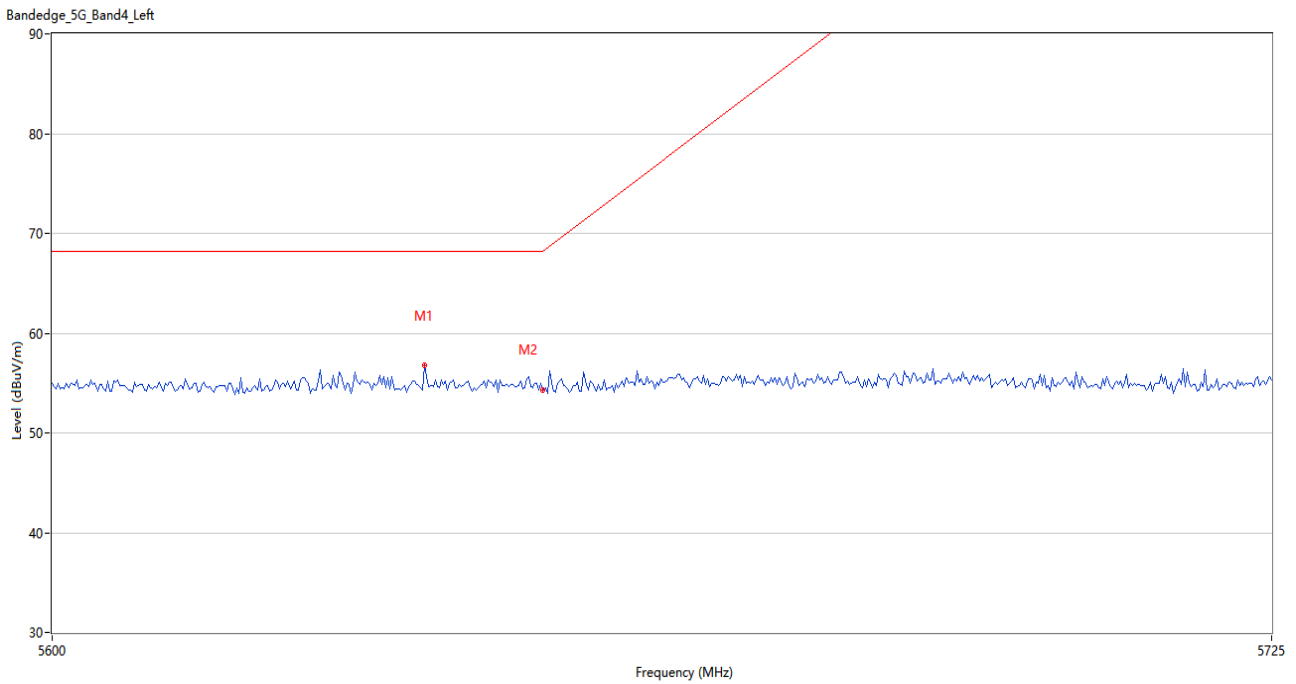
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5450.200	57.81	1.26	74.0	16.19	Peak	177.00	150	Horizontal	Pass
1**	5450.200	45.63	1.26	54.0	8.37	AV	177.00	150	Horizontal	Pass
2	5460.000	56.33	1.23	74.0	17.67	Peak	132.00	100	Horizontal	Pass
2**	5460.000	45.93	1.23	54.0	8.07	AV	132.00	100	Horizontal	Pass
3	5464.200	57.52	1.27	68.2	10.68	Peak	312.00	200	Horizontal	Pass
3**	5464.200	46.17	1.27	--	--	AV	312.00	200	Horizontal	N/A
4	5470.000	56.15	1.37	68.2	12.05	Peak	0.00	100	Horizontal	Pass
4**	5470.000	46.01	1.37	--	--	AV	0.00	100	Horizontal	N/A
5	5452.600	55.51	1.29	74.0	18.49	Peak	8.00	150	Horizontal	Pass
5**	5452.600	46.46	1.29	54.0	7.54	AV	8.00	150	Horizontal	Pass

U-NII-2C 11ac80 High Channel



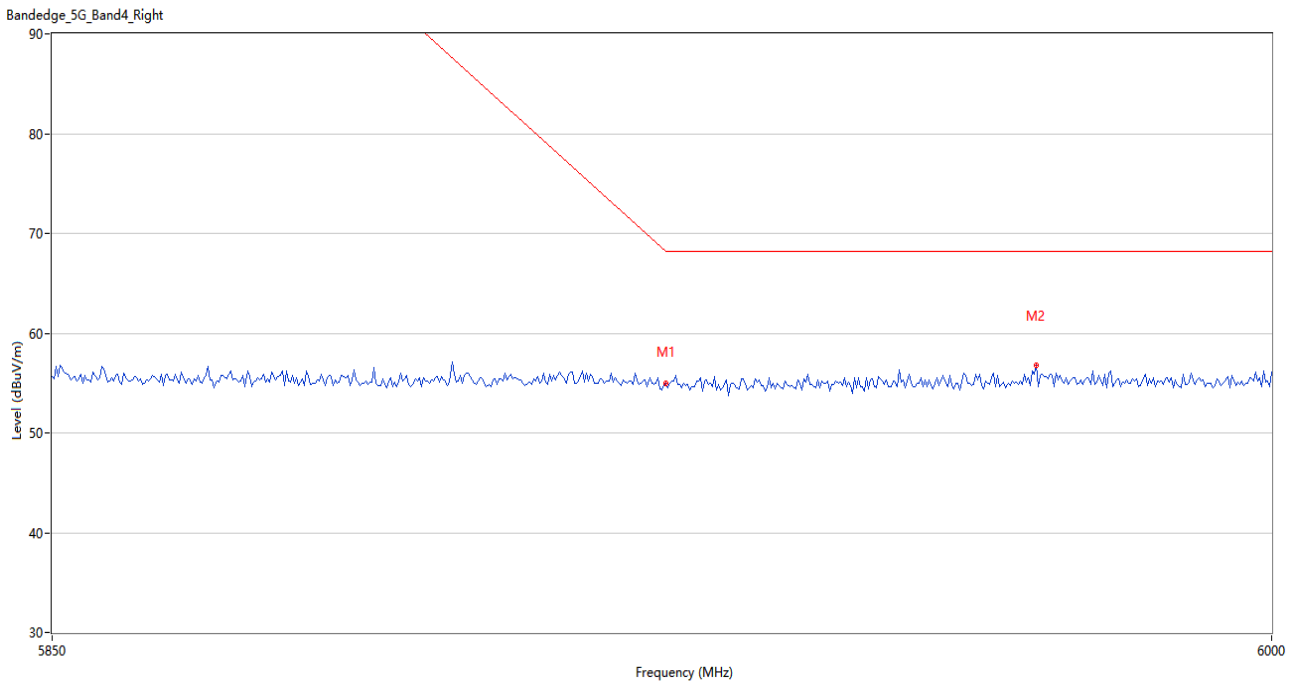
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	54.81	0.63	68.2	13.39	Peak	264.00	100	Horizontal	Pass
2	5812.917	56.55	1.21	68.2	11.65	Peak	62.00	100	Horizontal	Pass

U-NII-3 11a Low Channel



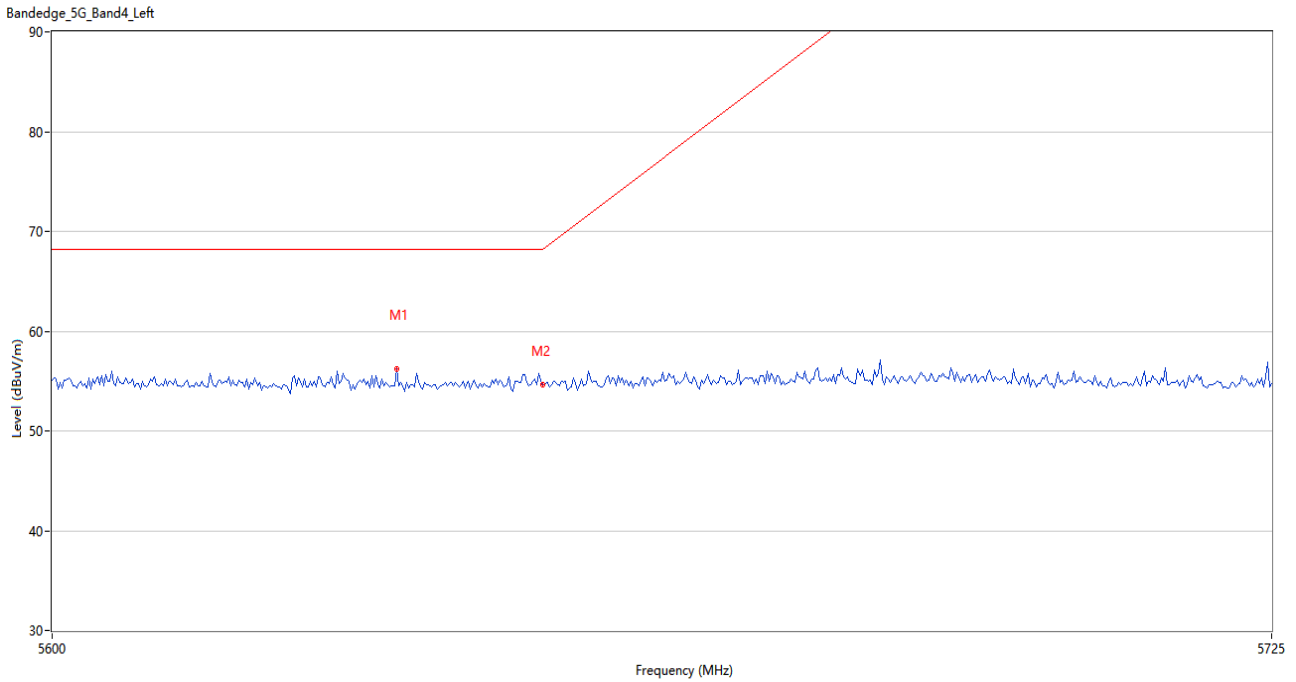
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5637.917	56.80	0.98	68.2	11.40	Peak	247.00	200	Horizontal	Pass
2	5650.000	54.26	0.79	68.2	13.94	Peak	17.00	150	Horizontal	Pass

U-NII-3 11a High Channel



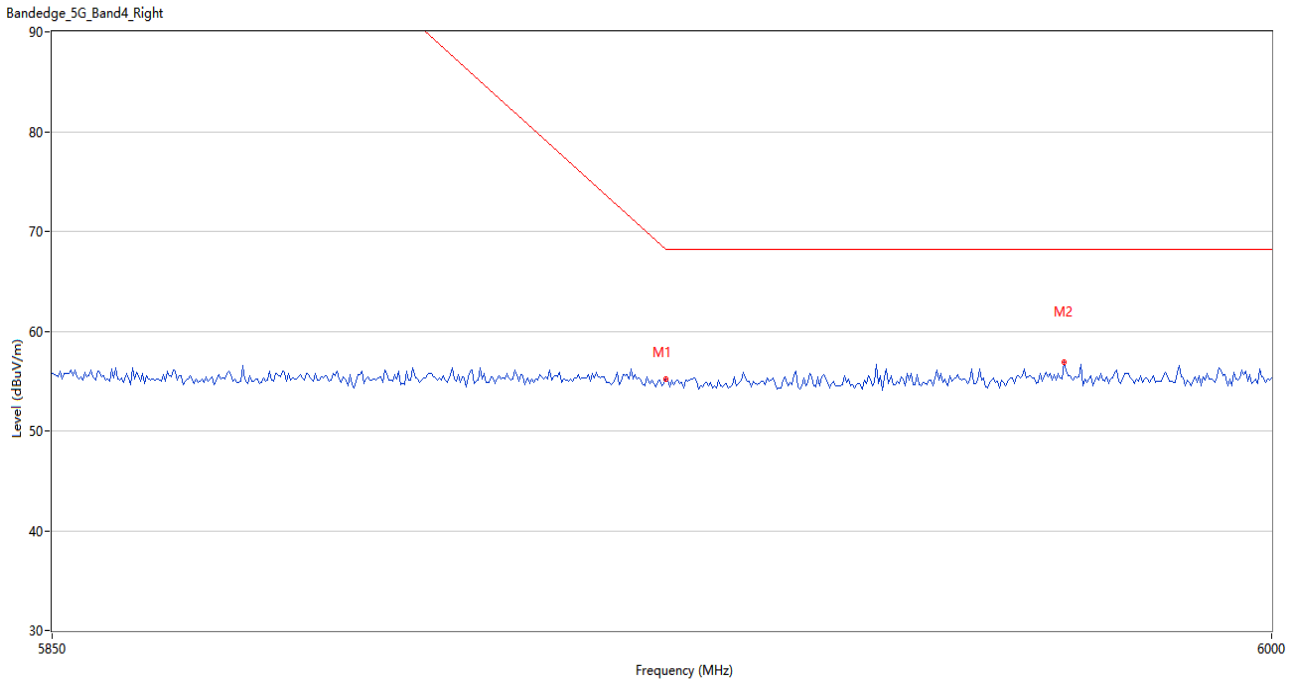
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.99	1.08	68.2	13.21	Peak	133.00	100	Horizontal	Pass
2	5970.750	56.76	1.19	68.2	11.44	Peak	170.00	200	Horizontal	Pass

U-NII-3 11n20 Low Channel



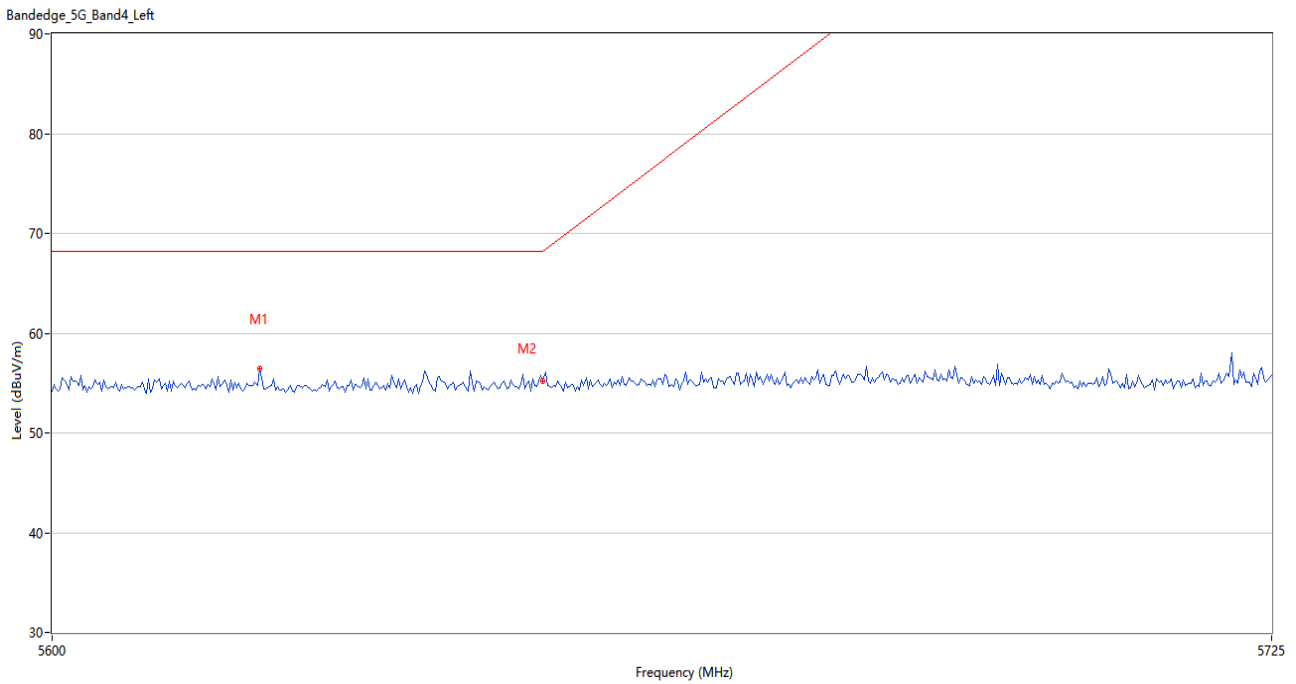
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5635.000	56.20	0.95	68.2	12.00	Peak	107.00	100	Horizontal	Pass
2	5650.000	54.68	0.79	68.2	13.52	Peak	336.00	150	Horizontal	Pass

U-NII-3 11n20 High Channel



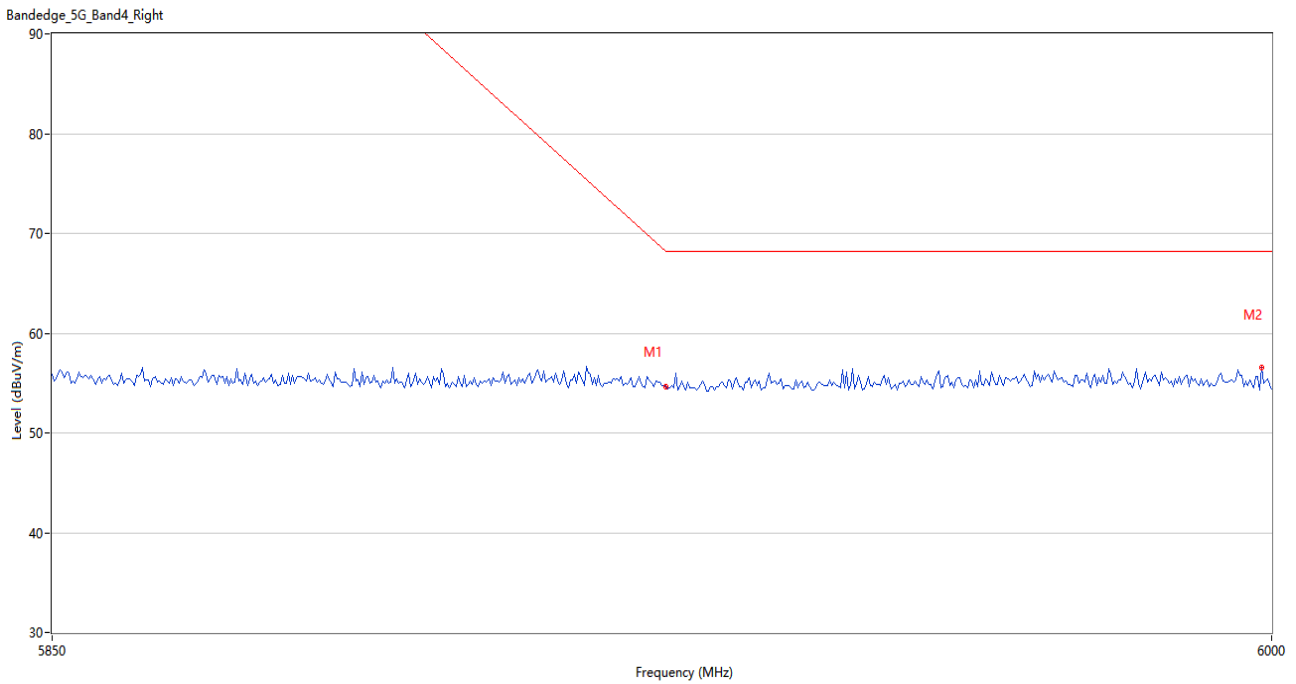
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.22	1.08	68.2	12.98	Peak	336.00	100	Horizontal	Pass
2	5974.250	56.94	1.15	68.2	11.26	Peak	336.00	200	Horizontal	Pass

U-NII-3 11n40 Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5621.042	56.42	0.70	68.2	11.78	Peak	203.00	200	Horizontal	Pass
2	5650.000	55.25	0.79	68.2	12.95	Peak	287.00	200	Horizontal	Pass

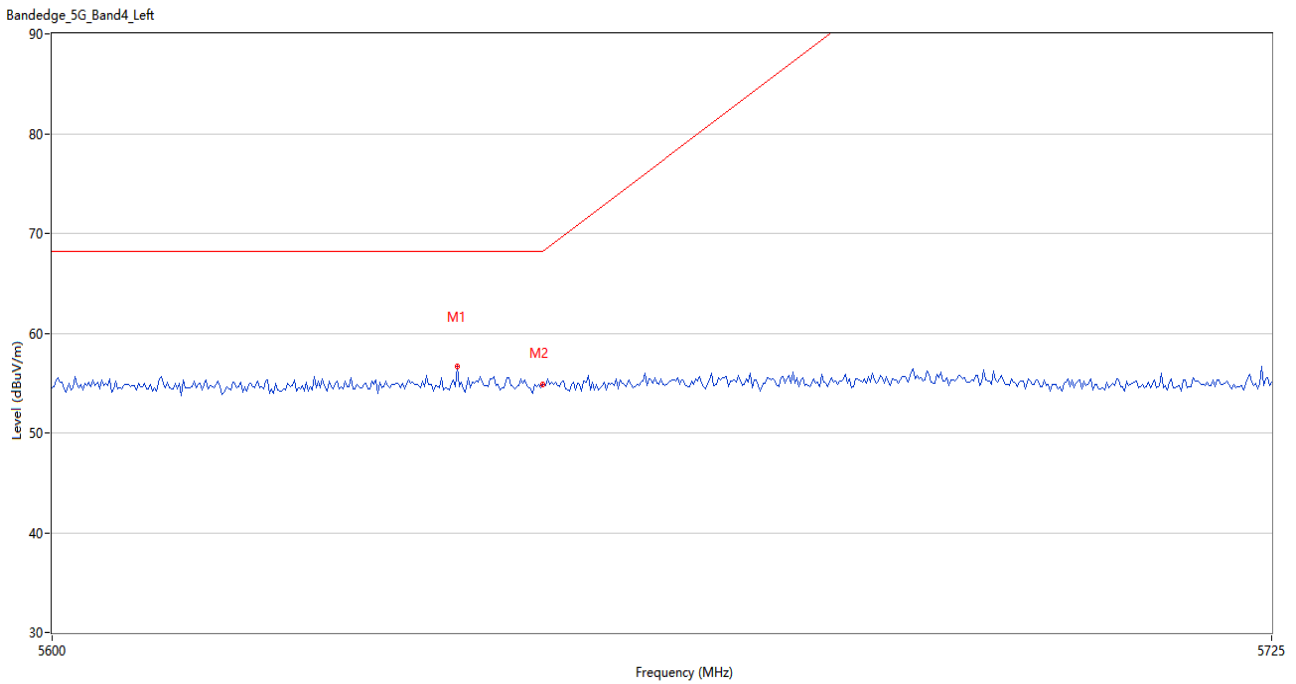
U-NII-3 11n40 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.62	1.08	68.2	13.58	Peak	279.00	100	Horizontal	Pass
2	5998.750	56.51	0.97	68.2	11.69	Peak	188.00	150	Horizontal	Pass

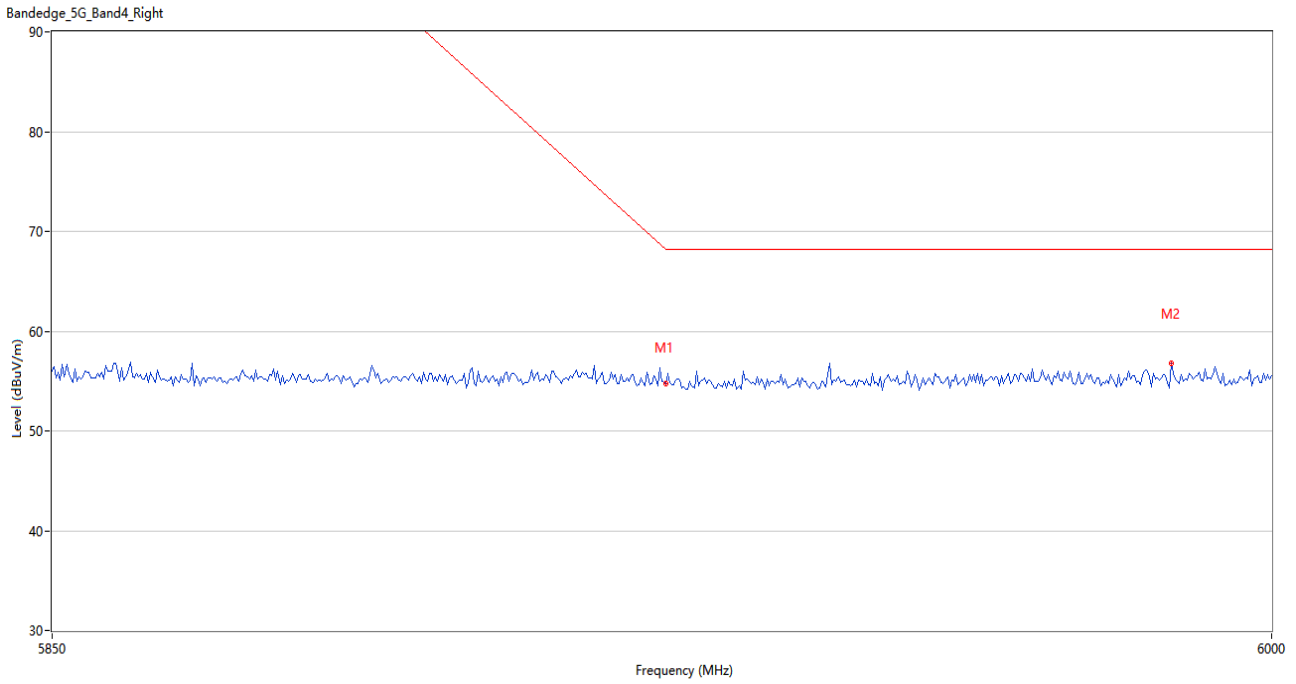


U-NII-3 11ac20 Low Channel



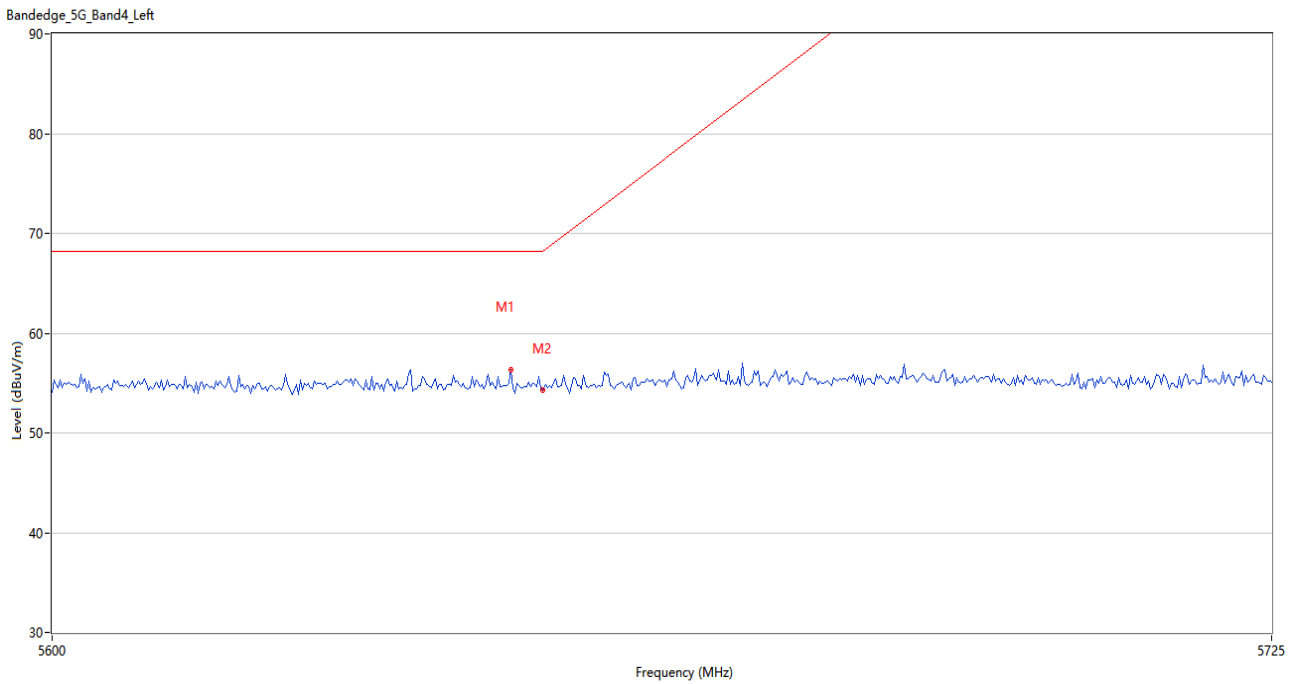
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5641.250	56.69	0.92	68.2	11.51	Peak	264.00	200	Horizontal	Pass
2	5650.000	54.80	0.79	68.2	13.40	Peak	162.00	150	Horizontal	Pass

U-NII-3 11ac20 High Channel



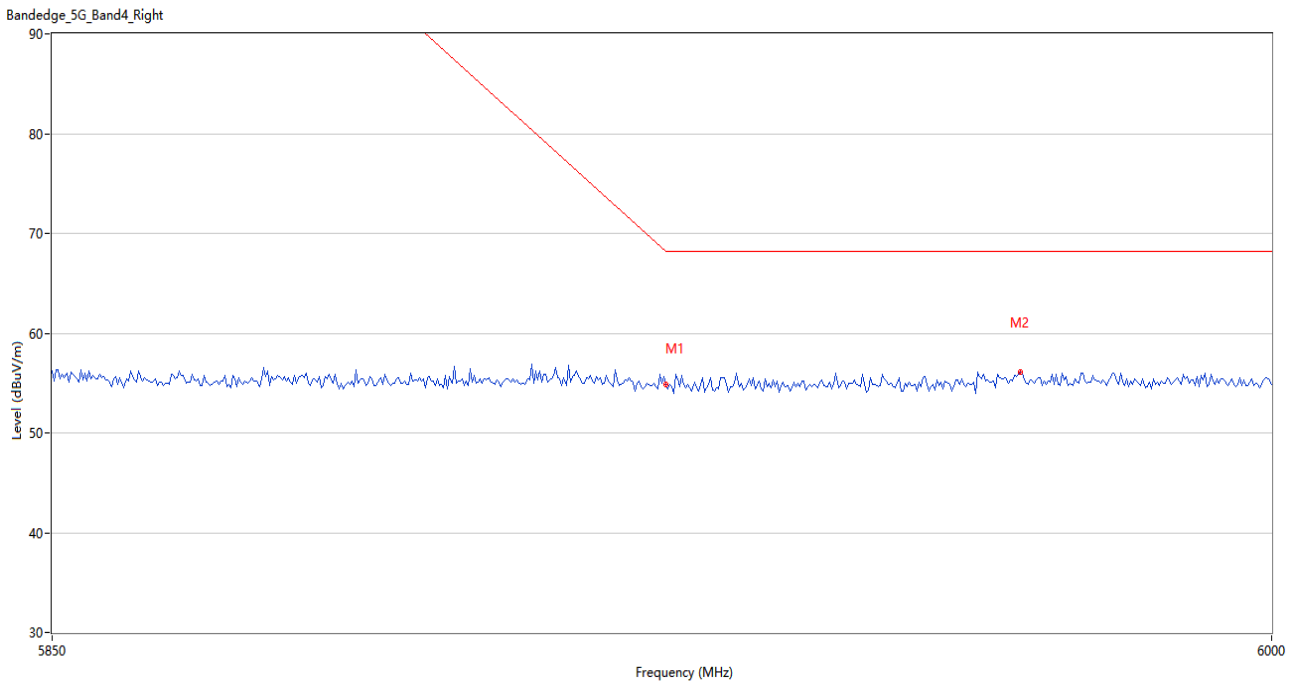
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.80	1.08	68.2	13.40	Peak	111.00	100	Horizontal	Pass
2	5987.500	56.79	0.92	68.2	11.41	Peak	95.00	150	Horizontal	Pass

U-NII-3 11ac40 Low Channel



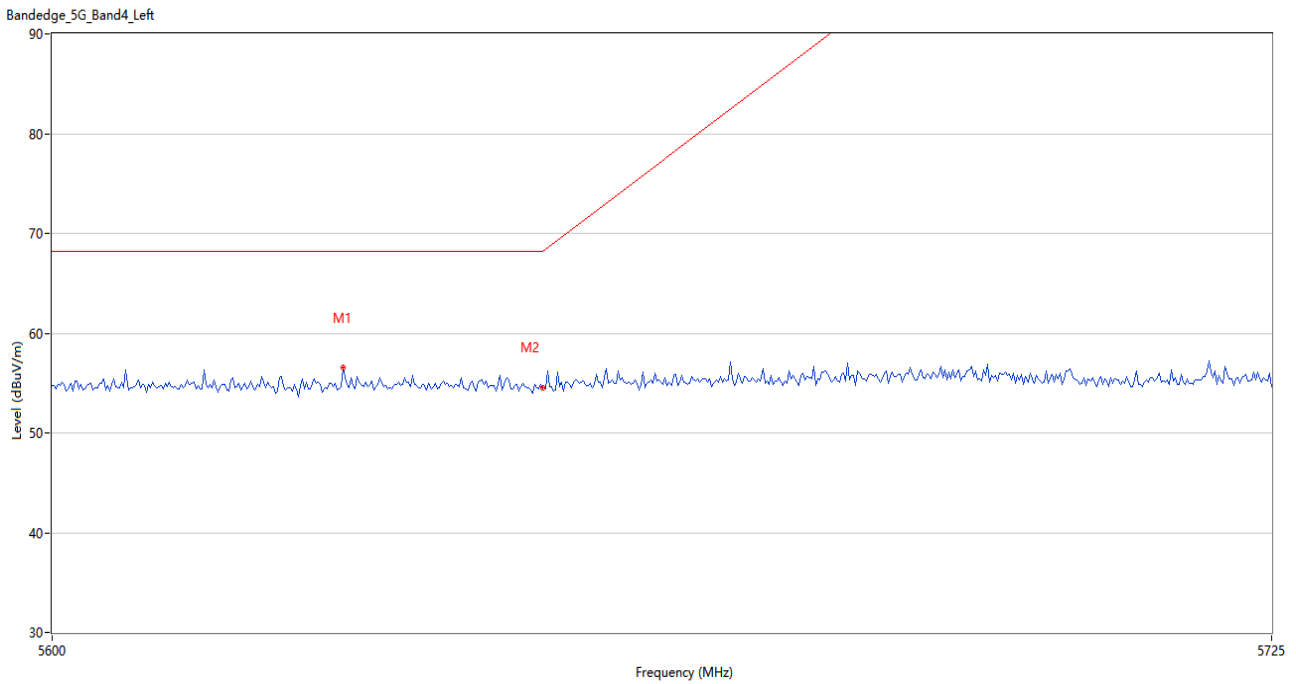
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5646.667	56.37	0.84	68.2	11.83	Peak	91.00	100	Horizontal	Pass
2	5650.000	54.27	0.79	68.2	13.93	Peak	347.00	200	Horizontal	Pass

U-NII-3 11ac40 High Channel



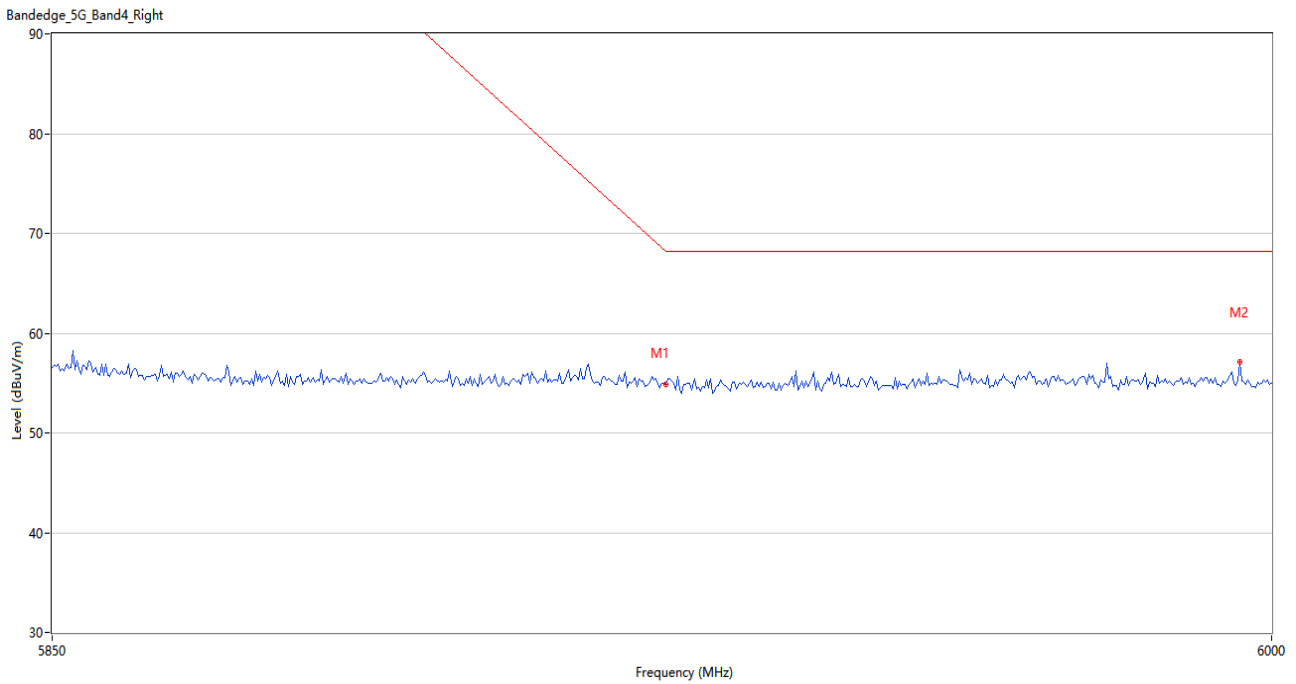
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.84	1.08	68.2	13.36	Peak	122.00	150	Horizontal	Pass
2	5968.750	56.07	1.13	68.2	12.13	Peak	0.00	100	Horizontal	Pass

U-NII-3 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5629.583	56.56	0.89	68.2	11.64	Peak	26.00	150	Horizontal	Pass
2	5650.000	54.49	0.79	68.2	13.71	Peak	43.00	200	Horizontal	Pass

U-NII-3 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.89	1.08	68.2	13.31	Peak	156.00	150	Horizontal	Pass
2	5996.000	57.07	0.91	68.2	11.13	Peak	360.00	150	Horizontal	Pass

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ23A0971-AR.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ23A0971-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ23A0971-AI.PDF”.

## Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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--END OF REPORT--