

TEST REPORT

Applicant: Handheld Group AB
Address: Strandgatan 40, 531 60 Lidköping, Sweden
Equipment Type: DDU7
Model Name: DDU7
Brand Name: Handheld
FCC ID: YY3-DDU7
ISED Number: 11695A-DDU7
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Nov. 07, 2024
Test Date: Nov. 08, 2024 - Jan. 14, 2024
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ISSUED BY:

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Feb. 11, 2025</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Mar. 05, 2025</u>	<u>Modify the FCC ID and ISED Number</u>
		<u>The original report is invalid.</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town, Pudong New District, Shanghai

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town, Pudong New District, Shanghai
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 29671.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Handheld Group AB
Address	Strandgatan 40, 531 60 Lidköping, Sweden

2.2 Manufacturer Information

Manufacturer	Handheld Group AB
Address	Strandgatan 40, 531 60 Lidköping, Sweden

2.3 General Description for Equipment under Test (EUT)

EUT Name	DDU7
Model Name Under Test	DDU7
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	SC-SZ24A0689-S05 SC-SZ24A0689-S03
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	WiFi 2.4G: 802.11b/g/n(HT20/40)/ac(VHT20/40)/ax(VHT20/40) WiFi 5G: 802.11a/n(HT20/40)/ac(VHT20/40/80)/ax(HE20/40/80) Bluetooth (BR+EDR+BLE) GNSS: GPS ;GLONASS ;BDS ;Galileo
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-3: 5725 MHz to 5850 MHz	
Modulation technology	OFDM, OFDMA	
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, BPSK, QPSK	
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 802.11ax: up to 1201 Mbps	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz 802.11ax: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-1: 19.14 dBm U-NII-3: 13.80 dBm	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac/ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac/ax	
Antenna Type	Main Antenna	PCB Antenna
	Aux. Antenna	
Antenna Gain	Main Antenna	U-NII-1: 5150 MHz to 5250 MHz: 3.19 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.19 dBi
	Aux. Antenna	U-NII-1: 5150 MHz to 5250 MHz: 3.19 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.19 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.20 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.19 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 6.20 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.19 dBi Formulas: Directional gain = G_{ANT}
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.20 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.19 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi

		Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 6.20 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.19 dBi Formulas: Directional gain = $GANT$
About the Product		The equipment is DDU7, intended for used with information technology equipment.

Mode	Antenna		
	Main Antenna	Aux. Antenna	MIMO
802.11a	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√
802.11ax80	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

802.11ax RU configuration table							
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242	RU_484	RU_996
802.11ax20	√	--	--	--	--	--	--
802.11ax40	√	--	--	--	--	--	--
802.11ax80	√	--	--	--	--	--	--

2.5 Channel List

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

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)/ax(HE20)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n(HT40)/ac(VHT40)/ax(HE40)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

For 802.11ac(VHT80)/ax(HE80)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	155	Mid	5775

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155
6 dB bandwidth	11a	6	BPSK	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	165/157/149
	11n(40 MHz)	13.5		N/A	159/151
	11ac(20 MHz)	6.5		N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	159/151
	11ac(80 MHz)	29.3		N/A	155
	11ax(20 MHz)	4		N/A	165/157/149
	11ax(40 MHz)	8		N/A	159/151
	11ax(80 MHz)	17		N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151

	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/36	165/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
	11ax(20 MHz)	4		48/36	165/149
	11ax(40 MHz)	8		46/38	159/151
	11ax(80 MHz)	17		42	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN) Devices
4	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
5	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
6	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	RSS Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 6.2	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	RSS-247, 6.2	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	RSS-247, 6.2	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	RSS-247, 6.2	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	RSS-247, 6.2	ANNEX A.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	RSS-247, 6.2	ANNEX A.6	Pass
8	Receiver Spurious Emissions	--	RSS-Gen, 7.1.2	--	N/A ^{Note2}

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

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

Note ³: 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	53% to 59%	
Atmospheric Pressure	101 kPa	
Temperature	NT (Normal Temperature)	+22.2°C to +23.9°C
Working Voltage of the EUT	NV (Normal Voltage)	3.80 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420147	2024.02.22	2025.02.21
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240977	2024.02.22	2025.02.21
Signal Generator	Anritsu	MG3710E	6262063515	2024.02.22	2025.02.21
Wideband Radio Communication Tester	R&S	CMW500	168792	2024.02.22	2025.02.21
EMI Receiver	KEYSIGHT	N9038A	MY55330122	2024.07.09	2025.07.08
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-177	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-1203	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-2134	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	J211060307	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	EMC001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	MY55330115	2024.02.19	2025.02.18
LISN	SCHWARZBECK	NSLK 8127	8127-940	2024.02.25	2025.02.24
10dB Limiter	SCHWARZBECK	VTSD 9561-F	9561-F N00409	2024.02.19	2025.02.18
Shielded Room	YiHeng	5m*4m*3.2 m	EMC006	2024.02.22	2027.02.21

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable Test Setup
BL410R	BALUN	V2.1.1.496	N/A	The section 4.6.1
BL410E	BALUN	V21.919	N/A	The section 4.6.2&4.6.3&4.6.4&4.6.5

4.4 Decision Rule

- ☐ No Need
- ☒ Use General conformity decision rule (Consider uncertainty or not ☒No ☐Yes)
- ☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐No ☐Yes)

4.5 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	2.4 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.73 dB
Unwanted Emissions, conducted	1.73 dB
All emissions, radiated	4.57 dB
Temperature	0.82 °C
Humidity	4.1 %

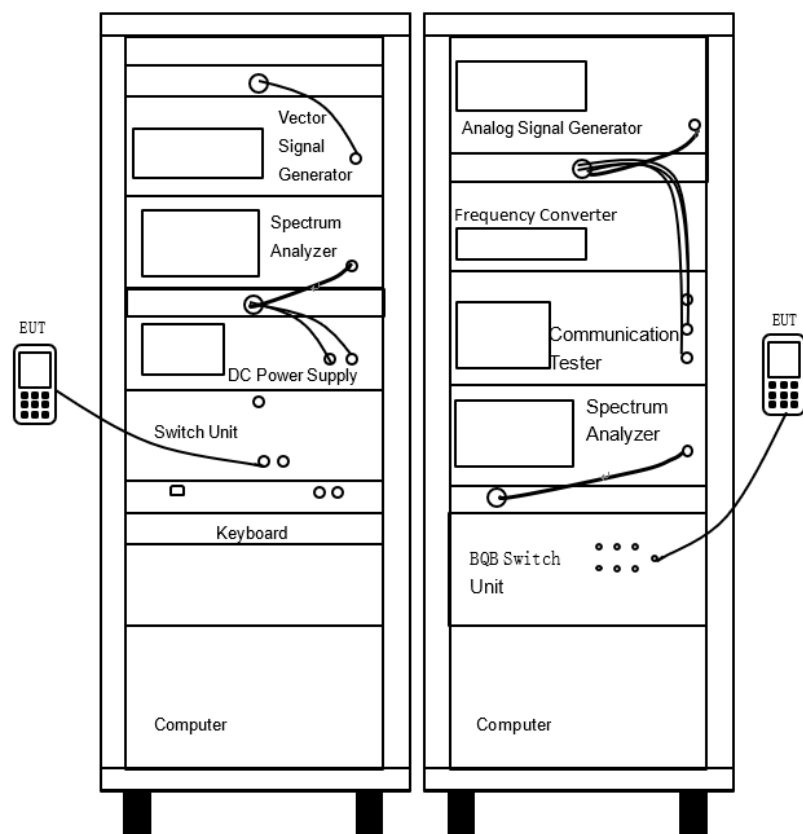
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

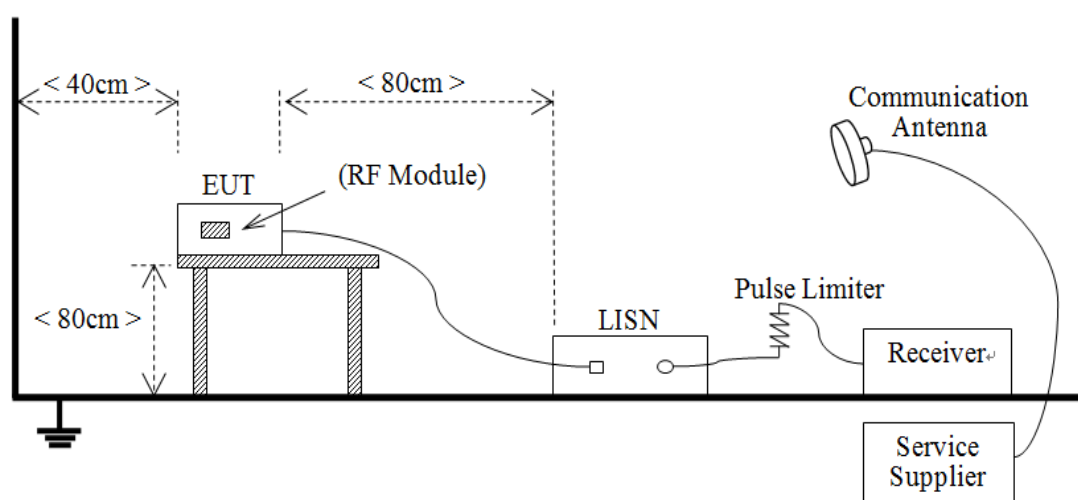
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



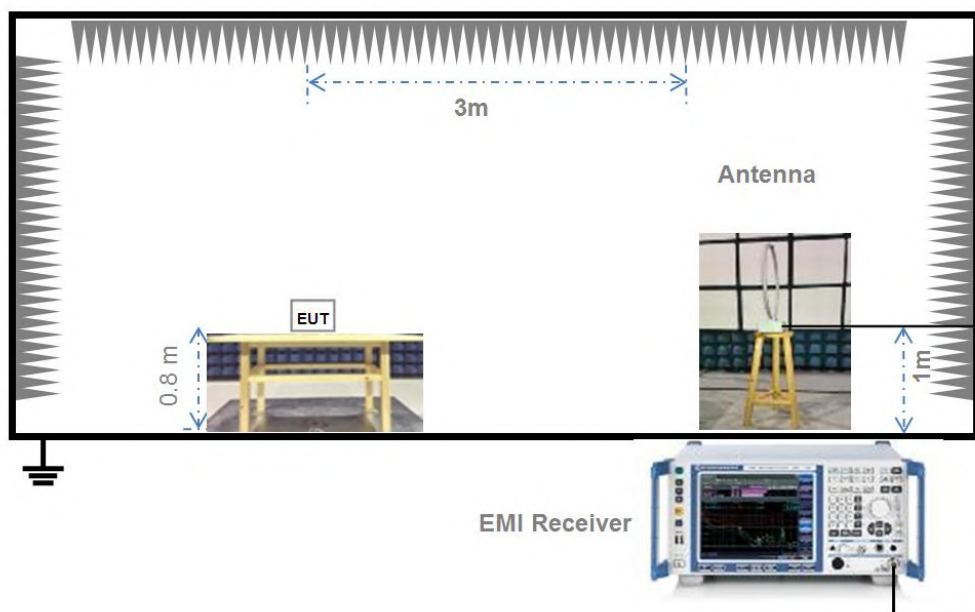
(Diagram 1)

4.6.2 For AC Power Supply Port Test



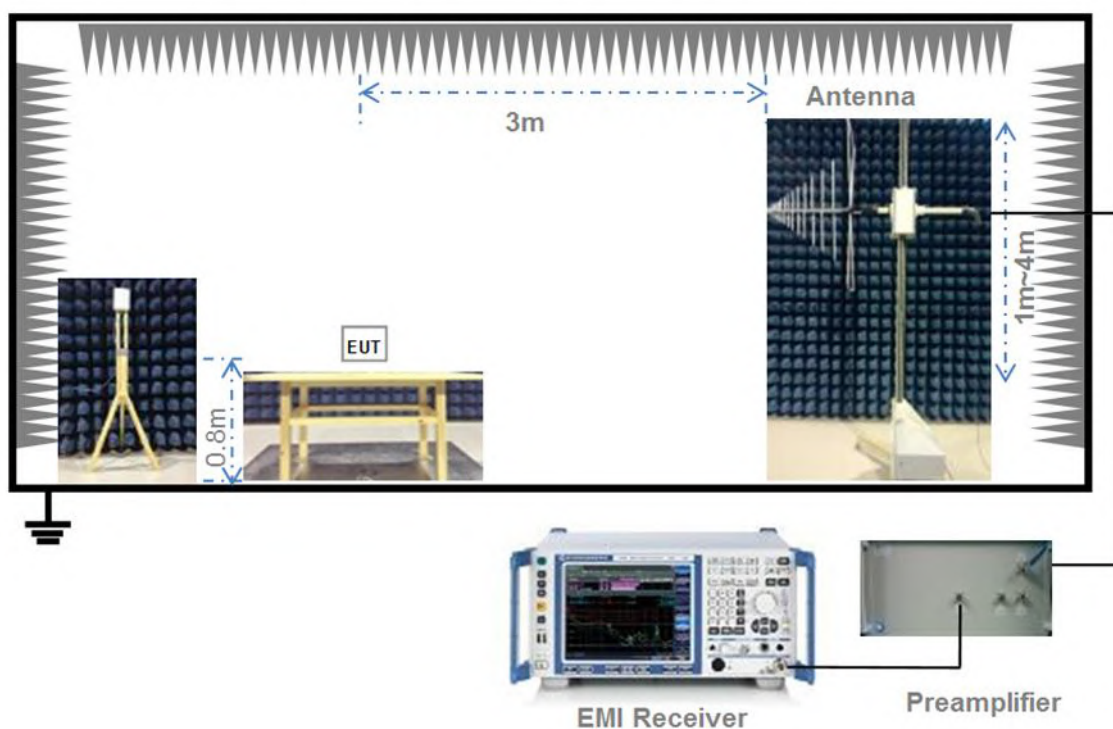
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



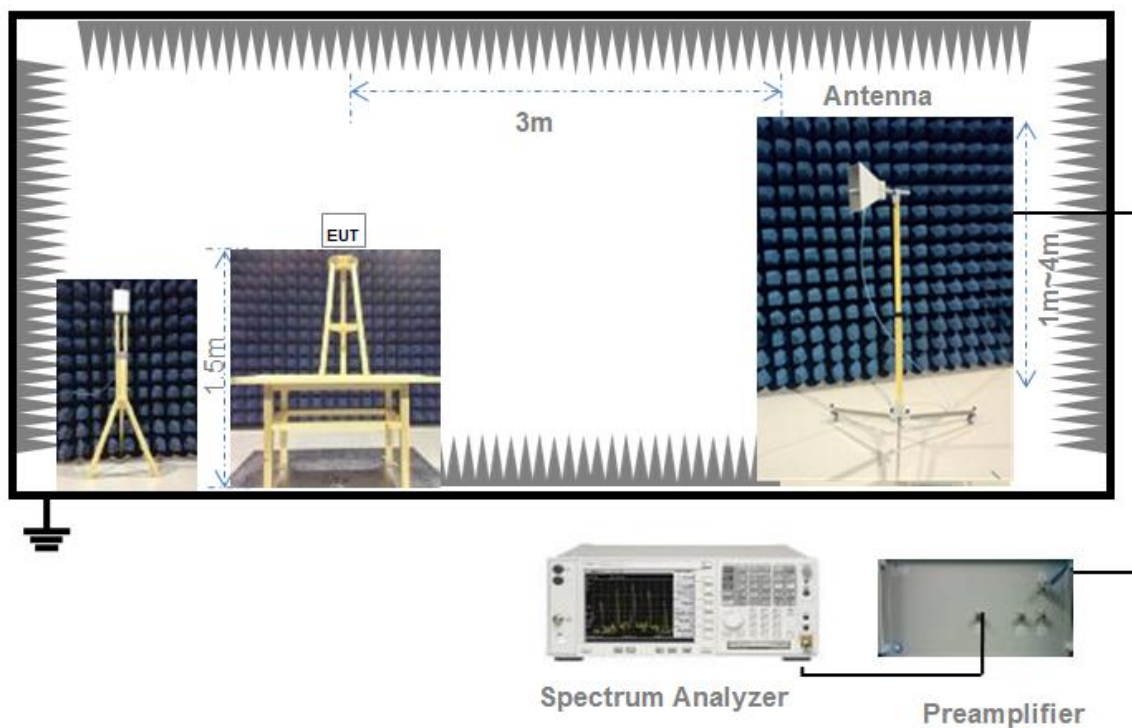
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 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.	

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The maximum conducted output power shall not exceed:

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

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

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

5.1.2 Test Setup

The section 4.6.1 (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

Maximum conducted (average) output power

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a), RSS-247, 6.2

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

5.2.2 Test Setup

The test setup photo please refer to 4.6.1 (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,
4. Detector = Peak.
5. Trace mode = Max hold.
6. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

RSS-247, 6.2

The maximum power spectral density should not exceed:

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

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

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

5.3.2 Test Setup

The section 4.6.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, RSS-GEN, 8.8

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

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

5.4.2 Test Setup

The section 4.6.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

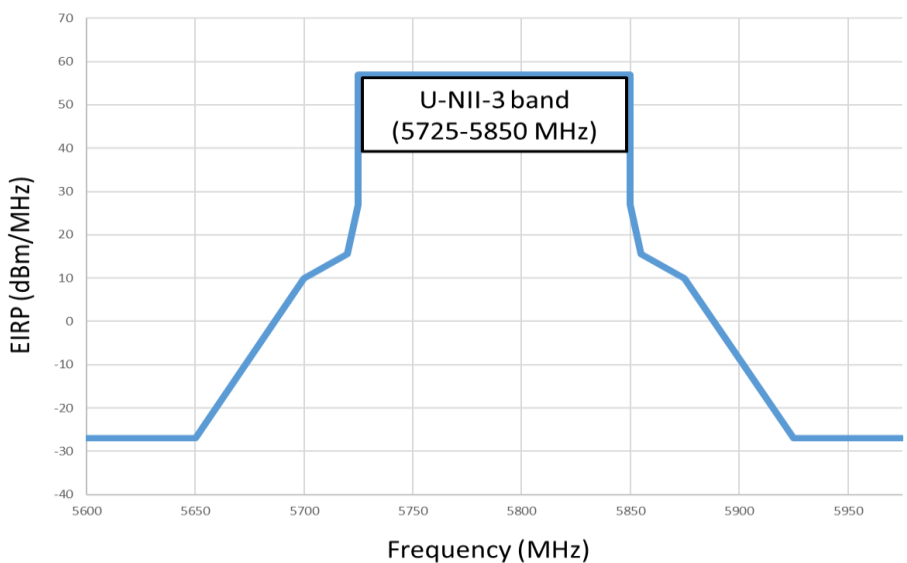
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

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

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

Note ²: The tighter limit applies at the band edge.

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

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

5.5.2 Test Setup

The section 4.6.3-4.6.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:
$$E = \text{EIRP} - 20 \log D + 104.8$$
where:
E = electric field strength in dB μ V/m,
EIRP = equivalent isotropic radiated power in dBm
D = specified measurement distance in meters.
- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on

and off with the transmit cycle, then no duty cycle correction is required for that emission.

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

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.

Note 2: All the configurations were tested, but only the worst data was shown in this report.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.39	1.44	96.80%
11n (HT20)	1.30	1.95	66.74%
11n (HT40)	0.64	1.28	50.47%
11ac (VHT20)	1.31	1.95	67.23%
11ac (VHT40)	0.65	1.28	50.82%
11ac (VHT80)	0.32	0.69	46.82%
11ax(HE20)	1.01	1.65	61.20%
11ax(HE40)	0.66	0.86	77.00%
11ax(HE80)	0.40	0.49	80.92%

Test DataConducted PowerMain Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.18	20.80	250	Pass
11a	CH44	13.40	21.88	250	Pass
11a	CH48	13.66	23.23	250	Pass
11n (HT20)	CH36	16.08	40.52	250	Pass
11n (HT20)	CH44	15.92	39.05	250	Pass
11n (HT20)	CH48	16.06	40.33	250	Pass
11n (HT40)	CH38	14.86	30.62	250	Pass
11n (HT40)	CH46	14.80	30.20	250	Pass
11ac (VHT20)	CH36	16.05	40.31	250	Pass
11ac (VHT20)	CH44	15.68	37.02	250	Pass
11ac (VHT20)	CH48	15.82	38.23	250	Pass
11ac (VHT40)	CH38	14.84	30.48	250	Pass
11ac (VHT40)	CH46	14.80	30.20	250	Pass
11ac (VHT80)	CH42	13.37	21.71	250	Pass
11ax (HE20) (SU)	CH36	16.40	43.68	250	Pass
11ax (HE20) (SU)	CH44	15.93	39.20	250	Pass
11ax (HE20) (SU)	CH48	16.07	40.48	250	Pass
11ax (HE40) (SU)	CH38	15.23	33.38	250	Pass
11ax (HE40) (SU)	CH46	14.95	31.30	250	Pass
11ax (HE80) (SU)	CH42	14.45	27.86	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	6.03	4.01	1000	Pass
11a	CH157	6.42	4.39	1000	Pass
11a	CH165	6.79	4.78	1000	Pass
11n (HT20)	CH149	8.02	6.33	1000	Pass
11n (HT20)	CH157	9.40	8.70	1000	Pass
11n (HT20)	CH165	9.77	9.48	1000	Pass
11n (HT40)	CH151	7.89	6.15	1000	Pass
11n (HT40)	CH159	8.12	6.49	1000	Pass
11ac (VHT20)	CH149	9.12	8.17	1000	Pass
11ac (VHT20)	CH157	9.34	8.60	1000	Pass
11ac (VHT20)	CH165	9.71	9.36	1000	Pass
11ac (VHT40)	CH151	7.84	6.08	1000	Pass
11ac (VHT40)	CH159	8.15	6.53	1000	Pass
11ac (VHT80)	CH155	5.38	3.45	1000	Pass
11ax (HE20) (SU)	CH149	9.30	8.52	1000	Pass
11ax (HE20) (SU)	CH157	9.65	9.23	1000	Pass
11ax (HE20) (SU)	CH165	9.95	9.89	1000	Pass
11ax (HE40) (SU)	CH151	8.16	6.55	1000	Pass
11ax (HE40) (SU)	CH159	8.49	7.07	1000	Pass
11ax (HE80) (SU)	CH155	6.24	4.21	1000	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.42	21.98	250	Pass
11a	CH44	13.45	22.14	250	Pass
11a	CH48	13.55	22.65	250	Pass
11n (HT20)	CH36	15.85	38.43	250	Pass
11n (HT20)	CH44	15.13	32.56	250	Pass
11n (HT20)	CH48	15.22	33.24	250	Pass
11n (HT40)	CH38	14.80	30.20	250	Pass
11n (HT40)	CH46	14.18	26.18	250	Pass
11ac (VHT20)	CH36	15.77	37.79	250	Pass
11ac (VHT20)	CH44	15.12	32.54	250	Pass
11ac (VHT20)	CH48	15.20	33.15	250	Pass
11ac (VHT40)	CH38	14.83	30.41	250	Pass
11ac (VHT40)	CH46	14.19	26.24	250	Pass
11ac (VHT80)	CH42	12.97	19.80	250	Pass
11ax (HE20) (SU)	CH36	15.84	38.39	250	Pass
11ax (HE20) (SU)	CH44	15.24	33.44	250	Pass
11ax (HE20) (SU)	CH48	15.25	33.52	250	Pass
11ax (HE40) (SU)	CH38	15.17	32.92	250	Pass
11ax (HE40) (SU)	CH46	14.50	28.22	250	Pass
11ax (HE80) (SU)	CH42	13.94	24.77	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	8.68	7.38	1000	Pass
11a	CH157	8.43	6.97	1000	Pass
11a	CH165	8.08	6.43	1000	Pass
11n (HT20)	CH149	10.84	12.12	1000	Pass
11n (HT20)	CH157	11.63	14.54	1000	Pass
11n (HT20)	CH165	11.36	13.67	1000	Pass
11n (HT40)	CH151	10.75	11.88	1000	Pass
11n (HT40)	CH159	10.54	11.32	1000	Pass
11ac (VHT20)	CH149	11.79	15.12	1000	Pass
11ac (VHT20)	CH157	11.61	14.50	1000	Pass
11ac (VHT20)	CH165	11.33	13.60	1000	Pass
11ac (VHT40)	CH151	10.80	12.02	1000	Pass
11ac (VHT40)	CH159	10.50	11.22	1000	Pass
11ac (VHT80)	CH155	7.84	6.08	1000	Pass
11ax (HE20) (SU)	CH149	11.89	15.46	1000	Pass
11ax (HE20) (SU)	CH157	11.65	14.63	1000	Pass
11ax (HE20) (SU)	CH165	11.29	13.47	1000	Pass
11ax (HE40) (SU)	CH151	11.03	12.69	1000	Pass
11ax (HE40) (SU)	CH159	10.83	12.12	1000	Pass
11ax (HE80) (SU)	CH155	8.61	7.26	1000	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.31	42.79	250	Pass
11a	CH44	16.44	44.02	250	Pass
11a	CH48	16.62	45.89	250	Pass
11n (HT20)	CH36	18.97	78.95	250	Pass
11n (HT20)	CH44	18.55	71.61	250	Pass
11n (HT20)	CH48	18.67	73.57	250	Pass
11n (HT40)	CH38	17.84	60.81	250	Pass
11n (HT40)	CH46	17.51	56.38	250	Pass
11ac (VHT20)	CH36	18.93	78.11	250	Pass
11ac (VHT20)	CH44	18.42	69.56	250	Pass
11ac (VHT20)	CH48	18.54	71.38	250	Pass
11ac (VHT40)	CH38	17.84	60.88	250	Pass
11ac (VHT40)	CH46	17.52	56.44	250	Pass
11ac (VHT80)	CH42	16.18	41.50	250	Pass
11ax (HE20) (SU)	CH36	19.14	82.07	250	Pass
11ax (HE20) (SU)	CH44	18.61	72.64	250	Pass
11ax (HE20) (SU)	CH48	18.69	74.00	250	Pass
11ax (HE40) (SU)	CH38	18.22	66.30	250	Pass
11ax (HE40) (SU)	CH46	17.75	59.51	250	Pass
11ax (HE80) (SU)	CH42	17.21	52.63	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	10.57	11.39	1000	Pass
11a	CH157	10.55	11.35	1000	Pass
11a	CH165	10.49	11.20	1000	Pass
11n (HT20)	CH149	12.66	18.46	1000	Pass
11n (HT20)	CH157	13.66	23.25	1000	Pass
11n (HT20)	CH165	13.64	23.14	1000	Pass
11n (HT40)	CH151	12.56	18.04	1000	Pass
11n (HT40)	CH159	12.51	17.81	1000	Pass
11ac (VHT20)	CH149	13.67	23.29	1000	Pass
11ac (VHT20)	CH157	13.64	23.10	1000	Pass
11ac (VHT20)	CH165	13.61	22.96	1000	Pass
11ac (VHT40)	CH151	12.58	18.10	1000	Pass
11ac (VHT40)	CH159	12.49	17.75	1000	Pass
11ac (VHT80)	CH155	9.79	9.52	1000	Pass
11ax (HE20) (SU)	CH149	13.80	23.98	1000	Pass
11ax (HE20) (SU)	CH157	13.78	23.86	1000	Pass
11ax (HE20) (SU)	CH165	13.68	23.36	1000	Pass
11ax (HE40) (SU)	CH151	12.84	19.24	1000	Pass
11ax (HE40) (SU)	CH159	12.83	19.19	1000	Pass
11ax (HE80) (SU)	CH155	10.59	11.47	1000	Pass

EIRP PowerMain Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH36	16.37	43.36	165	Pass
11a	CH44	16.59	45.62	165	Pass
11a	CH48	16.85	48.43	165	Pass
11n (HT20)	CH36	19.27	84.46	180	Pass
11n (HT20)	CH44	19.11	81.40	180	Pass
11n (HT20)	CH48	19.25	84.07	176	Pass
11n (HT40)	CH38	18.05	63.82	358	Pass
11n (HT40)	CH46	17.99	62.95	358	Pass
11ac (VHT20)	CH36	19.24	84.03	180	Pass
11ac (VHT20)	CH44	18.87	77.17	180	Pass
11ac (HVT20)	CH48	19.01	79.69	176	Pass
11ac (VHT40)	CH38	18.03	63.53	358	Pass
11ac (VHT40)	CH46	17.99	62.95	358	Pass
11ac (VHT80)	CH42	16.56	45.25	752	Pass
11ax (HE20) (SU)	CH36	19.59	91.05	190	Pass
11ax (HE20) (SU)	CH44	19.12	81.71	190	Pass
11ax (HE20) (SU)	CH48	19.26	84.38	188	Pass
11ax (HE40) (SU)	CH38	18.42	69.58	375	Pass
11ax (HE40) (SU)	CH46	18.14	65.24	375	Pass
11ax (HE80) (SU)	CH42	17.64	58.07	766	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	Verdict
11a	CH149	9.22	8.36	Pass
11a	CH157	9.61	9.14	Pass
11a	CH165	9.98	9.96	Pass
11n (HT20)	CH149	11.21	13.20	Pass
11n (HT20)	CH157	12.59	18.14	Pass
11n (HT20)	CH165	12.96	19.75	Pass
11n (HT40)	CH151	11.08	12.82	Pass
11n (HT40)	CH159	11.31	13.52	Pass
11ac (VHT20)	CH149	12.31	17.04	Pass
11ac (VHT20)	CH157	12.53	17.92	Pass
11ac (VHT20)	CH165	12.90	19.52	Pass
11ac (VHT40)	CH151	11.03	12.68	Pass
11ac (VHT40)	CH159	11.34	13.61	Pass
11ac (VHT80)	CH155	8.57	7.19	Pass
11ax (HE20) (SU)	CH149	12.49	17.75	Pass
11ax (HE20) (SU)	CH157	12.84	19.24	Pass
11ax (HE20) (SU)	CH165	13.14	20.62	Pass
11ax (HE40) (SU)	CH151	11.35	13.66	Pass
11ax (HE40) (SU)	CH159	11.68	14.74	Pass
11ax (HE80) (SU)	CH155	9.43	8.77	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH36	16.61	45.83	165	Pass
11a	CH44	16.64	46.14	165	Pass
11a	CH48	16.74	47.22	165	Pass
11n (HT20)	CH36	19.04	80.10	180	Pass
11n (HT20)	CH44	18.32	67.86	180	Pass
11n (HT20)	CH48	18.41	69.29	176	Pass
11n (HT40)	CH38	17.99	62.95	200	Pass
11n (HT40)	CH46	17.37	54.57	200	Pass
11ac (VHT20)	CH36	18.96	78.78	180	Pass
11ac (VHT20)	CH44	18.31	67.83	180	Pass
11ac (HVT20)	CH48	18.39	69.09	176	Pass
11ac (VHT40)	CH38	18.02	63.38	200	Pass
11ac (VHT40)	CH46	17.38	54.70	200	Pass
11ac (VHT80)	CH42	16.16	41.27	200	Pass
11ax (HE20) (SU)	CH36	19.03	80.03	190	Pass
11ax (HE20) (SU)	CH44	18.43	69.70	190	Pass
11ax (HE20) (SU)	CH48	18.44	69.86	188	Pass
11ax (HE40) (SU)	CH38	18.36	68.63	200	Pass
11ax (HE40) (SU)	CH46	17.69	58.82	200	Pass
11ax (HE80) (SU)	CH42	17.13	51.64	200	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	Verdict
11a	CH149	11.87	15.39	Pass
11a	CH157	11.62	14.52	Pass
11a	CH165	11.27	13.40	Pass
11n (HT20)	CH149	14.03	25.27	Pass
11n (HT20)	CH157	14.82	30.31	Pass
11n (HT20)	CH165	14.55	28.49	Pass
11n (HT40)	CH151	13.94	24.77	Pass
11n (HT40)	CH159	13.73	23.60	Pass
11ac (VHT20)	CH149	14.98	31.51	Pass
11ac (VHT20)	CH157	14.80	30.23	Pass
11ac (VHT20)	CH165	14.52	28.34	Pass
11ac (VHT40)	CH151	13.99	25.06	Pass
11ac (VHT40)	CH159	13.69	23.39	Pass
11ac (VHT80)	CH155	11.03	12.66	Pass
11ax (HE20) (SU)	CH149	15.08	32.23	Pass
11ax (HE20) (SU)	CH157	14.84	30.50	Pass
11ax (HE20) (SU)	CH165	14.48	28.07	Pass
11ax (HE40) (SU)	CH151	14.22	26.45	Pass
11ax (HE40) (SU)	CH159	14.02	25.26	Pass
11ax (HE80) (SU)	CH155	11.80	15.13	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH36	19.50	89.19	165	Pass
11a	CH44	19.63	91.76	165	Pass
11a	CH48	19.81	95.65	165	Pass
11n (HT20)	CH36	22.16	164.56	180	Pass
11n (HT20)	CH44	21.74	149.27	180	Pass
11n (HT20)	CH48	21.86	153.36	176	Pass
11n (HT40)	CH38	21.03	126.77	200	Pass
11n (HT40)	CH46	20.70	117.52	200	Pass
11ac (VHT20)	CH36	22.12	162.81	180	Pass
11ac (VHT20)	CH44	21.61	145.00	180	Pass
11ac (HVT20)	CH48	21.73	148.79	176	Pass
11ac (VHT40)	CH38	21.03	126.91	200	Pass
11ac (VHT40)	CH46	20.71	117.64	200	Pass
11ac (VHT80)	CH42	19.37	86.52	200	Pass
11ax (HE20) (SU)	CH36	22.33	171.08	190	Pass
11ax (HE20) (SU)	CH44	21.80	151.41	190	Pass
11ax (HE20) (SU)	CH48	21.88	154.25	188	Pass
11ax (HE40) (SU)	CH38	21.41	138.21	200	Pass
11ax (HE40) (SU)	CH46	20.94	124.05	200	Pass
11ax (HE80) (SU)	CH42	20.40	109.71	200	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	Verdict
11a	CH149	13.76	23.74	Pass
11a	CH157	13.74	23.67	Pass
11a	CH165	13.68	23.36	Pass
11n (HT20)	CH149	15.85	38.47	Pass
11n (HT20)	CH157	16.85	48.45	Pass
11n (HT20)	CH165	16.83	48.24	Pass
11n (HT40)	CH151	15.75	37.59	Pass
11n (HT40)	CH159	15.70	37.12	Pass
11ac (VHT20)	CH149	16.86	48.55	Pass
11ac (VHT20)	CH157	16.83	48.15	Pass
11ac (VHT20)	CH165	16.80	47.86	Pass
11ac (VHT40)	CH151	15.77	37.73	Pass
11ac (VHT40)	CH159	15.68	37.00	Pass
11ac (VHT80)	CH155	12.98	19.85	Pass
11ax (HE20) (SU)	CH149	16.99	49.98	Pass
11ax (HE20) (SU)	CH157	16.97	49.74	Pass
11ax (HE20) (SU)	CH165	16.87	48.69	Pass
11ax (HE40) (SU)	CH151	16.03	40.12	Pass
11ax (HE40) (SU)	CH159	16.02	40.00	Pass
11ax (HE80) (SU)	CH155	13.78	23.90	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SH24A0814-604 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	21.41	16.54
11a	CH44	20.76	16.52
11a	CH48	20.71	16.52
11n (HT20)	CH36	24.93	18.02
11n (HT20)	CH44	24.07	17.96
11n (HT20)	CH48	20.07	17.57
11n (HT40)	CH38	39.81	35.82
11n (HT40)	CH46	40.06	35.85
11ac (VHT20)	CH36	24.90	18.01
11ac (VHT20)	CH44	24.49	17.97
11ac (VHT20)	CH48	20.09	17.56
11ac (VHT40)	CH38	39.82	35.81
11ac (VHT40)	CH46	39.91	35.82
11ac (VHT80)	CH42	80.18	75.24
11ax (HE20) (SU)	CH36	26.01	18.99
11ax (HE20) (SU)	CH44	31.10	19.01
11ax (HE20) (SU)	CH48	19.88	18.80
11ax (HE40) (SU)	CH38	40.04	37.52
11ax (HE40) (SU)	CH46	40.29	37.55
11ax (HE80) (SU)	CH42	82.76	76.61

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.72	17.27
11a	CH157	20.61	17.27
11a	CH165	20.79	17.25
11n (HT20)	CH149	24.29	18.00
11n (HT20)	CH157	25.78	18.01
11n (HT20)	CH165	24.30	18.01
11n (HT40)	CH151	39.84	35.91
11n (HT40)	CH159	40.11	35.91
11ac (VHT20)	CH149	24.45	18.01
11ac (VHT20)	CH157	24.29	18.00
11ac (VHT20)	CH165	24.46	18.01
11ac (VHT40)	CH151	39.85	35.88
11ac (VHT40)	CH159	39.97	35.86
11ac (VHT80)	CH155	80.16	75.49
11ax (HE20) (SU)	CH149	28.69	19.01
11ax (HE20) (SU)	CH157	25.47	19.00
11ax (HE20) (SU)	CH165	25.14	19.00
11ax (HE40) (SU)	CH151	40.16	35.57
11ax (HE40) (SU)	CH159	40.24	35.55
11ax (HE80) (SU)	CH155	82.44	76.95

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH24A0814-604 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.10	500.00	Pass
11a	CH157	16.20	500.00	Pass
11a	CH165	16.50	500.00	Pass
11n (HT20)	CH149	17.10	500.00	Pass
11n (HT20)	CH157	16.20	500.00	Pass
11n (HT20)	CH165	16.40	500.00	Pass
11n (HT40)	CH151	35.20	500.00	Pass
11n (HT40)	CH159	35.20	500.00	Pass
11ac (VHT20)	CH149	17.10	500.00	Pass
11ac (VHT20)	CH157	15.70	500.00	Pass
11ac (VHT20)	CH165	17.10	500.00	Pass
11ac (VHT40)	CH151	35.20	500.00	Pass
11ac (VHT40)	CH159	35.20	500.00	Pass
11ac (VHT80)	CH155	75.20	500.00	Pass
11ax (HE20) (SU)	CH149	18.60	500.00	Pass
11ax (HE20) (SU)	CH157	18.70	500.00	Pass
11ax (HE20) (SU)	CH165	18.90	500.00	Pass
11ax (HE40) (SU)	CH151	35.30	500.00	Pass
11ax (HE40) (SU)	CH159	35.30	500.00	Pass
11ax (HE80) (SU)	CH155	75.30	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SH24A0814-604 Data Part 3.pdf”.

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

Test Data

Main Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.73	11.00	Pass
11a	CH44	2.97	11.00	Pass
11a	CH48	3.09	11.00	Pass
11n (HT20)	CH36	5.22	11.00	Pass
11n (HT20)	CH44	5.06	11.00	Pass
11n (HT20)	CH48	5.34	11.00	Pass
11n (HT40)	CH38	1.85	11.00	Pass
11n (HT40)	CH46	2.12	11.00	Pass
11ac (VHT20)	CH36	5.19	11.00	Pass
11ac (VHT20)	CH44	5.04	11.00	Pass
11ac (VHT20)	CH48	5.43	11.00	Pass
11ac (VHT40)	CH38	1.81	11.00	Pass
11ac (VHT40)	CH46	1.80	11.00	Pass
11ac (VHT80)	CH42	-2.19	11.00	Pass
11ax (HE20) (SU)	CH36	5.03	11.00	Pass
11ax (HE20) (SU)	CH44	4.77	11.00	Pass
11ax (HE20) (SU)	CH48	5.03	11.00	Pass
11ax (HE40) (SU)	CH38	2.10	11.00	Pass
11ax (HE40) (SU)	CH46	1.84	11.00	Pass
11ax (HE80) (SU)	CH42	-1.08	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-7.41	30.00	Pass
11a	CH157	-6.68	30.00	Pass
11a	CH165	-6.64	30.00	Pass
11n (HT20)	CH149	-5.79	30.00	Pass
11n (HT20)	CH157	-4.38	30.00	Pass
11n (HT20)	CH165	-4.10	30.00	Pass
11n (HT40)	CH151	-8.03	30.00	Pass
11n (HT40)	CH159	-7.69	30.00	Pass
11ac (VHT20)	CH149	-4.73	30.00	Pass
11ac (VHT20)	CH157	-4.41	30.00	Pass
11ac (VHT20)	CH165	-4.37	30.00	Pass
11ac (VHT40)	CH151	-7.67	30.00	Pass
11ac (VHT40)	CH159	-7.61	30.00	Pass
11ac (VHT80)	CH155	-13.12	30.00	Pass
11ax (HE20) (SU)	CH149	-4.82	30.00	Pass
11ax (HE20) (SU)	CH157	-4.67	30.00	Pass
11ax (HE20) (SU)	CH165	-4.17	30.00	Pass
11ax (HE40) (SU)	CH151	-7.14	30.00	Pass
11ax (HE40) (SU)	CH159	-7.09	30.00	Pass
11ax (HE80) (SU)	CH155	-11.47	30.00	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.89	11.00	Pass
11a	CH44	2.70	11.00	Pass
11a	CH48	3.10	11.00	Pass
11n (HT20)	CH36	4.26	11.00	Pass
11n (HT20)	CH44	4.31	11.00	Pass
11n (HT20)	CH48	4.08	11.00	Pass
11n (HT40)	CH38	1.85	11.00	Pass
11n (HT40)	CH46	1.44	11.00	Pass
11ac (VHT20)	CH36	4.28	11.00	Pass
11ac (VHT20)	CH44	4.19	11.00	Pass
11ac (VHT20)	CH48	3.95	11.00	Pass
11ac (VHT40)	CH38	1.87	11.00	Pass
11ac (VHT40)	CH46	1.23	11.00	Pass
11ac (VHT80)	CH42	-3.05	11.00	Pass
11ax (HE20) (SU)	CH36	4.48	11.00	Pass
11ax (HE20) (SU)	CH44	4.11	11.00	Pass
11ax (HE20) (SU)	CH48	4.30	11.00	Pass
11ax (HE40) (SU)	CH38	2.38	11.00	Pass
11ax (HE40) (SU)	CH46	1.68	11.00	Pass
11ax (HE80) (SU)	CH42	-1.62	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-4.58	30.00	Pass
11a	CH157	-4.75	30.00	Pass
11a	CH165	-5.24	30.00	Pass
11n (HT20)	CH149	-2.80	30.00	Pass
11n (HT20)	CH157	-2.08	30.00	Pass
11n (HT20)	CH165	-2.37	30.00	Pass
11n (HT40)	CH151	-4.79	30.00	Pass
11n (HT40)	CH159	-5.21	30.00	Pass
11ac (VHT20)	CH149	-1.98	30.00	Pass
11ac (VHT20)	CH157	-2.09	30.00	Pass
11ac (VHT20)	CH165	-2.43	30.00	Pass
11ac (VHT40)	CH151	-4.89	30.00	Pass
11ac (VHT40)	CH159	-5.50	30.00	Pass
11ac (VHT80)	CH155	-11.21	30.00	Pass
11ax (HE20) (SU)	CH149	-2.02	30.00	Pass
11ax (HE20) (SU)	CH157	-2.49	30.00	Pass
11ax (HE20) (SU)	CH165	-2.67	30.00	Pass
11ax (HE40) (SU)	CH151	-4.00	30.00	Pass
11ax (HE40) (SU)	CH159	-4.54	30.00	Pass
11ax (HE80) (SU)	CH155	-8.91	30.00	Pass

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U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	5.82	11.00	Pass
11a	CH44	5.85	11.00	Pass
11a	CH48	6.11	11.00	Pass
11n (HT20)	CH36	7.78	11.00	Pass
11n (HT20)	CH44	7.71	11.00	Pass
11n (HT20)	CH48	7.77	11.00	Pass
11n (HT40)	CH38	4.86	11.00	Pass
11n (HT40)	CH46	4.80	11.00	Pass
11ac (VHT20)	CH36	7.77	11.00	Pass
11ac (VHT20)	CH44	7.65	11.00	Pass
11ac (VHT20)	CH48	7.76	11.00	Pass
11ac (VHT40)	CH38	4.85	11.00	Pass
11ac (VHT40)	CH46	4.53	11.00	Pass
11ac (VHT80)	CH42	0.41	11.00	Pass
11ax (HE20) (SU)	CH36	7.78	11.00	Pass
11ax (HE20) (SU)	CH44	7.46	11.00	Pass
11ax (HE20) (SU)	CH48	7.69	11.00	Pass
11ax (HE40) (SU)	CH38	5.25	11.00	Pass
11ax (HE40) (SU)	CH46	4.77	11.00	Pass
11ax (HE80) (SU)	CH42	1.67	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-2.75	30.00	Pass
11a	CH157	-2.60	30.00	Pass
11a	CH165	-2.87	30.00	Pass
11n (HT20)	CH149	-1.03	30.00	Pass
11n (HT20)	CH157	-0.07	30.00	Pass
11n (HT20)	CH165	-0.14	30.00	Pass
11n (HT40)	CH151	-3.10	30.00	Pass
11n (HT40)	CH159	-3.26	30.00	Pass
11ac (VHT20)	CH149	-0.13	30.00	Pass
11ac (VHT20)	CH157	-0.09	30.00	Pass
11ac (VHT20)	CH165	-0.29	30.00	Pass
11ac (VHT40)	CH151	-3.05	30.00	Pass
11ac (VHT40)	CH159	-3.42	30.00	Pass
11ac (VHT80)	CH155	-9.05	30.00	Pass
11ax (HE20) (SU)	CH149	-0.19	30.00	Pass
11ax (HE20) (SU)	CH157	-0.43	30.00	Pass
11ax (HE20) (SU)	CH165	-0.35	30.00	Pass
11ax (HE40) (SU)	CH151	-2.28	30.00	Pass
11ax (HE40) (SU)	CH159	-2.62	30.00	Pass
11ax (HE80) (SU)	CH155	-6.99	30.00	Pass

EIRP PSDMain Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	EIRP Limit (dBm/MHz)	Verdict
11a	CH36	5.92	10.00	Pass
11a	CH44	6.16	10.00	Pass
11a	CH48	6.28	10.00	Pass
11n (HT20)	CH36	8.41	10.00	Pass
11n (HT20)	CH44	8.25	10.00	Pass
11n (HT20)	CH48	8.53	10.00	Pass
11n (HT40)	CH38	5.04	10.00	Pass
11n (HT40)	CH46	5.31	10.00	Pass
11ac (VHT20)	CH36	8.38	10.00	Pass
11ac (VHT20)	CH44	8.23	10.00	Pass
11ac (VHT20)	CH48	8.62	10.00	Pass
11ac (VHT40)	CH38	5.00	10.00	Pass
11ac (VHT40)	CH46	4.99	10.00	Pass
11ac (VHT80)	CH42	1.00	10.00	Pass
11ax (HE20) (SU)	CH36	8.22	10.00	Pass
11ax (HE20) (SU)	CH44	7.96	10.00	Pass
11ax (HE20) (SU)	CH48	8.22	10.00	Pass
11ax (HE40) (SU)	CH38	5.29	10.00	Pass
11ax (HE40) (SU)	CH46	5.03	10.00	Pass
11ax (HE80) (SU)	CH42	2.11	10.00	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH149	-4.22	Pass
11a	CH157	-3.49	Pass
11a	CH165	-3.45	Pass
11n (HT20)	CH149	-2.60	Pass
11n (HT20)	CH157	-1.19	Pass
11n (HT20)	CH165	-0.91	Pass
11n (HT40)	CH151	-4.84	Pass
11n (HT40)	CH159	-4.50	Pass
11ac (VHT20)	CH149	-1.54	Pass
11ac (VHT20)	CH157	-1.22	Pass
11ac (VHT20)	CH165	-1.18	Pass
11ac (VHT40)	CH151	-4.48	Pass
11ac (VHT40)	CH159	-4.42	Pass
11ac (VHT80)	CH155	-9.93	Pass
11ax (HE20) (SU)	CH149	-1.63	Pass
11ax (HE20) (SU)	CH157	-1.48	Pass
11ax (HE20) (SU)	CH165	-0.98	Pass
11ax (HE40) (SU)	CH151	-3.95	Pass
11ax (HE40) (SU)	CH159	-3.90	Pass
11ax (HE80) (SU)	CH155	-8.28	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	EIRP Limit (dBm/MHz)	Verdict
11a	CH36	6.08	10.00	Pass
11a	CH44	5.89	10.00	Pass
11a	CH48	6.29	10.00	Pass
11n (HT20)	CH36	7.45	10.00	Pass
11n (HT20)	CH44	7.50	10.00	Pass
11n (HT20)	CH48	7.27	10.00	Pass
11n (HT40)	CH38	5.04	10.00	Pass
11n (HT40)	CH46	4.63	10.00	Pass
11ac (VHT20)	CH36	7.47	10.00	Pass
11ac (VHT20)	CH44	7.38	10.00	Pass
11ac (VHT20)	CH48	7.14	10.00	Pass
11ac (VHT40)	CH38	5.06	10.00	Pass
11ac (VHT40)	CH46	4.42	10.00	Pass
11ac (VHT80)	CH42	0.14	10.00	Pass
11ax (HE20) (SU)	CH36	7.67	10.00	Pass
11ax (HE20) (SU)	CH44	7.30	10.00	Pass
11ax (HE20) (SU)	CH48	7.49	10.00	Pass
11ax (HE40) (SU)	CH38	5.57	10.00	Pass
11ax (HE40) (SU)	CH46	4.87	10.00	Pass
11ax (HE80) (SU)	CH42	1.57	10.00	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH149	-1.39	Pass
11a	CH157	-1.56	Pass
11a	CH165	-2.05	Pass
11n (HT20)	CH149	0.39	Pass
11n (HT20)	CH157	1.11	Pass
11n (HT20)	CH165	0.82	Pass
11n (HT40)	CH151	-1.60	Pass
11n (HT40)	CH159	-2.02	Pass
11ac (VHT20)	CH149	1.21	Pass
11ac (VHT20)	CH157	1.10	Pass
11ac (VHT20)	CH165	0.76	Pass
11ac (VHT40)	CH151	-1.70	Pass
11ac (VHT40)	CH159	-2.31	Pass
11ac (VHT80)	CH155	-8.02	Pass
11ax (HE20) (SU)	CH149	1.17	Pass
11ax (HE20) (SU)	CH157	0.70	Pass
11ax (HE20) (SU)	CH165	0.52	Pass
11ax (HE40) (SU)	CH151	-0.81	Pass
11ax (HE40) (SU)	CH159	-1.35	Pass
11ax (HE80) (SU)	CH155	-5.72	Pass

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U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	EIRP Limit (dBm/MHz)	Verdict
11a	CH36	9.01	11.00	Pass
11a	CH44	9.04	11.00	Pass
11a	CH48	9.30	11.00	Pass
11n (HT20)	CH36	10.97	11.00	Pass
11n (HT20)	CH44	10.90	11.00	Pass
11n (HT20)	CH48	10.96	11.00	Pass
11n (HT40)	CH38	8.05	11.00	Pass
11n (HT40)	CH46	7.99	11.00	Pass
11ac (VHT20)	CH36	10.96	11.00	Pass
11ac (VHT20)	CH44	10.84	11.00	Pass
11ac (VHT20)	CH48	10.95	11.00	Pass
11ac (VHT40)	CH38	8.04	11.00	Pass
11ac (VHT40)	CH46	7.72	11.00	Pass
11ac (VHT80)	CH42	3.60	11.00	Pass
11ax (HE20) (SU)	CH36	10.97	11.00	Pass
11ax (HE20) (SU)	CH44	10.65	11.00	Pass
11ax (HE20) (SU)	CH48	10.88	11.00	Pass
11ax (HE40) (SU)	CH38	8.44	11.00	Pass
11ax (HE40) (SU)	CH46	7.96	11.00	Pass
11ax (HE80) (SU)	CH42	4.86	11.00	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH149	0.44	Pass
11a	CH157	0.59	Pass
11a	CH165	0.32	Pass
11n (HT20)	CH149	2.16	Pass
11n (HT20)	CH157	3.12	Pass
11n (HT20)	CH165	3.05	Pass
11n (HT40)	CH151	0.09	Pass
11n (HT40)	CH159	-0.07	Pass
11ac (VHT20)	CH149	3.06	Pass
11ac (VHT20)	CH157	3.10	Pass
11ac (VHT20)	CH165	2.90	Pass
11ac (VHT40)	CH151	0.14	Pass
11ac (VHT40)	CH159	-0.23	Pass
11ac (VHT80)	CH155	-5.86	Pass
11ax (HE20) (SU)	CH149	3.00	Pass
11ax (HE20) (SU)	CH157	2.76	Pass
11ax (HE20) (SU)	CH165	2.84	Pass
11ax (HE40) (SU)	CH151	0.91	Pass
11ax (HE40) (SU)	CH159	0.57	Pass
11ax (HE80) (SU)	CH155	-3.80	Pass

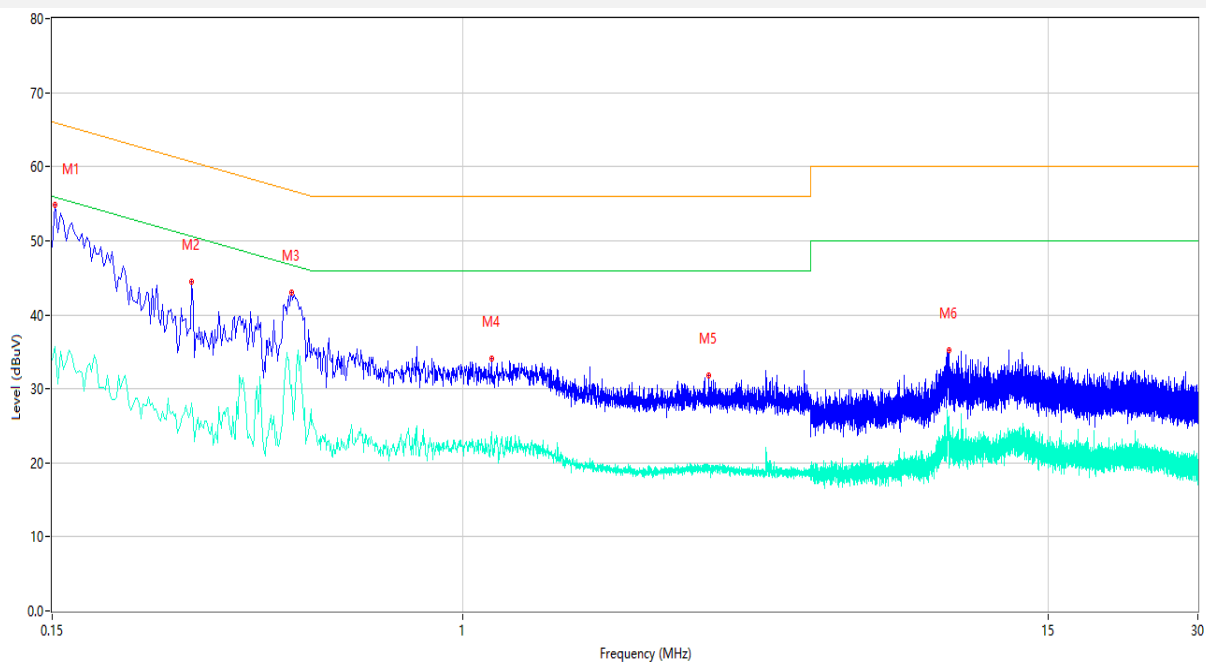
A.5 Conducted Emission

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

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

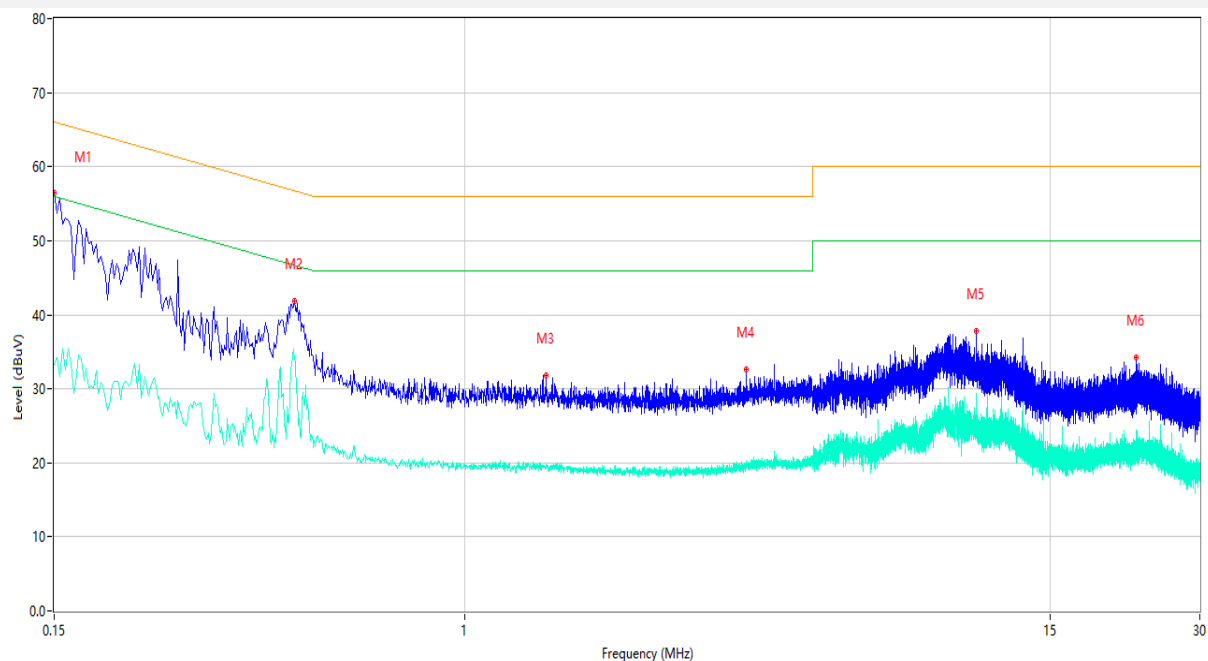
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	54.78	9.75	65.89	11.11	Peak	L	Pass
1**	0.152	35.72	9.75	55.89	20.17	AV	L	Pass
2	0.286	44.44	9.74	60.64	16.20	Peak	L	Pass
2**	0.286	28.14	9.74	50.64	22.50	AV	L	Pass
3	0.454	43.01	9.74	56.80	13.79	Peak	L	Pass
3**	0.454	30.51	9.74	46.80	16.29	AV	L	Pass
4	1.144	34.05	9.70	56.00	21.95	Peak	L	Pass
4**	1.144	24.23	9.70	46.00	21.77	AV	L	Pass
5	3.130	31.79	9.66	56.00	24.21	Peak	L	Pass
5**	3.130	19.42	9.66	46.00	26.58	AV	L	Pass
6	9.476	35.21	9.50	60.00	24.79	Peak	L	Pass
6**	9.476	26.30	9.50	50.00	23.70	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	56.55	9.75	66.00	9.45	Peak	N	Pass
1**	0.150	33.34	9.75	56.00	22.66	AV	N	Pass
2	0.456	41.92	9.74	56.77	14.85	Peak	N	Pass
2**	0.456	34.08	9.74	46.77	12.69	AV	N	Pass
3	1.462	31.85	9.70	56.00	24.15	Peak	N	Pass
3**	1.462	19.81	9.70	46.00	26.19	AV	N	Pass
4	3.688	32.67	9.66	56.00	23.33	Peak	N	Pass
4**	3.688	19.93	9.66	46.00	26.07	AV	N	Pass
5	10.670	37.80	9.45	60.00	22.20	Peak	N	Pass
5**	10.670	29.38	9.45	50.00	20.62	AV	N	Pass
6	22.404	34.21	8.89	60.00	25.79	Peak	N	Pass
6**	22.404	24.40	8.89	50.00	25.60	AV	N	Pass

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

A.6.1 Radiated Spurious Emissions

Test Data

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

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

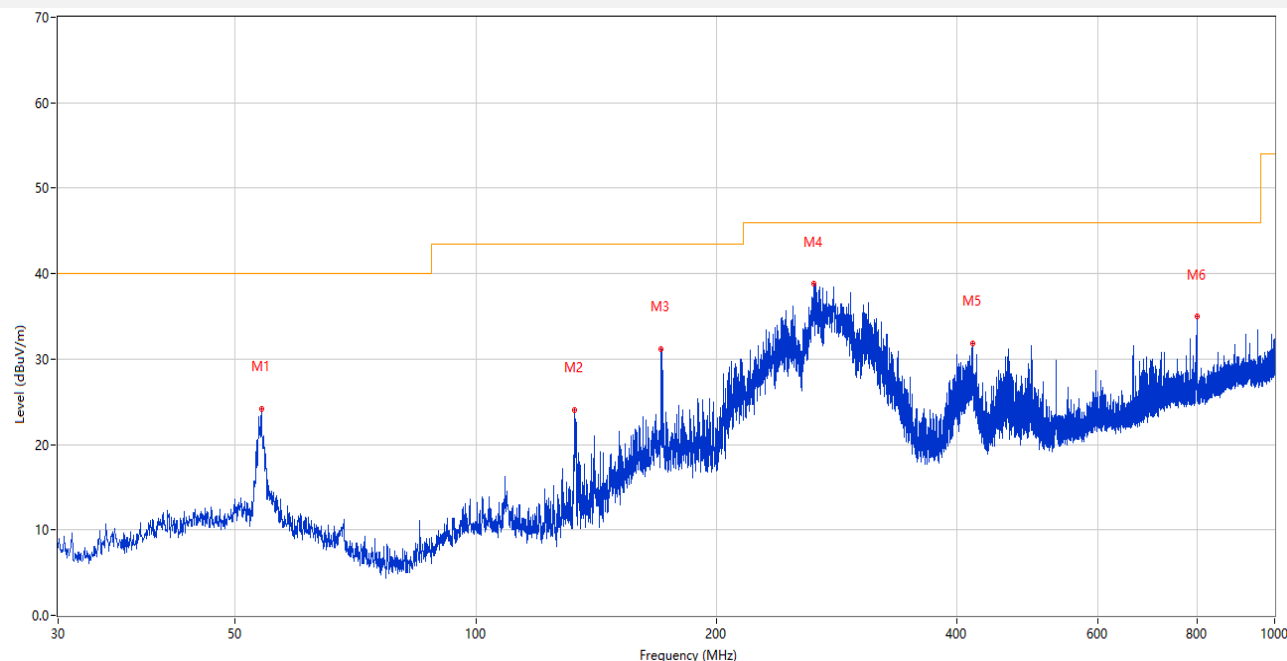
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

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

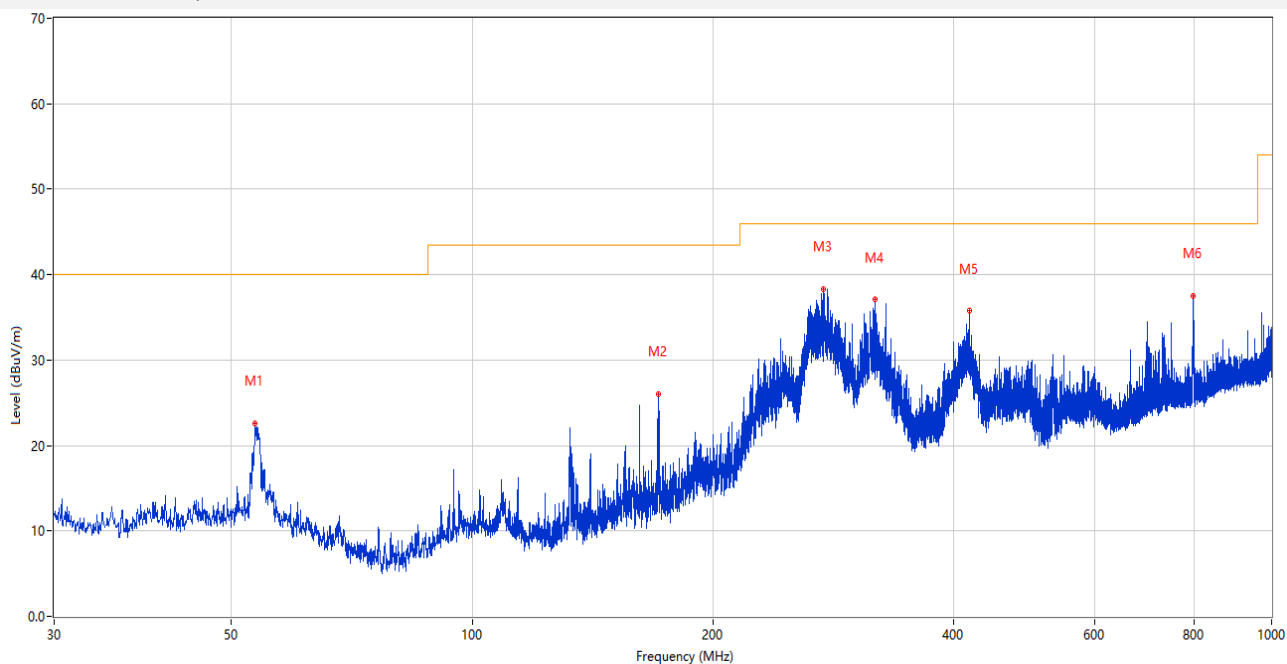
Main Antenna:

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.910	24.21	-24.93	40.0	15.79	Peak	360.00	200	Horizontal	Pass
2	132.868	24.02	-29.20	43.5	19.48	Peak	296.00	200	Horizontal	Pass
3	170.698	31.14	-28.38	43.5	12.36	Peak	141.00	100	Horizontal	Pass
4	264.983	38.87	-24.12	46.0	7.13	Peak	208.00	100	Horizontal	Pass
5	418.388	31.86	-19.92	46.0	14.14	Peak	237.00	200	Horizontal	Pass
6	799.161	34.94	-11.64	46.0	11.06	Peak	0.00	100	Horizontal	Pass

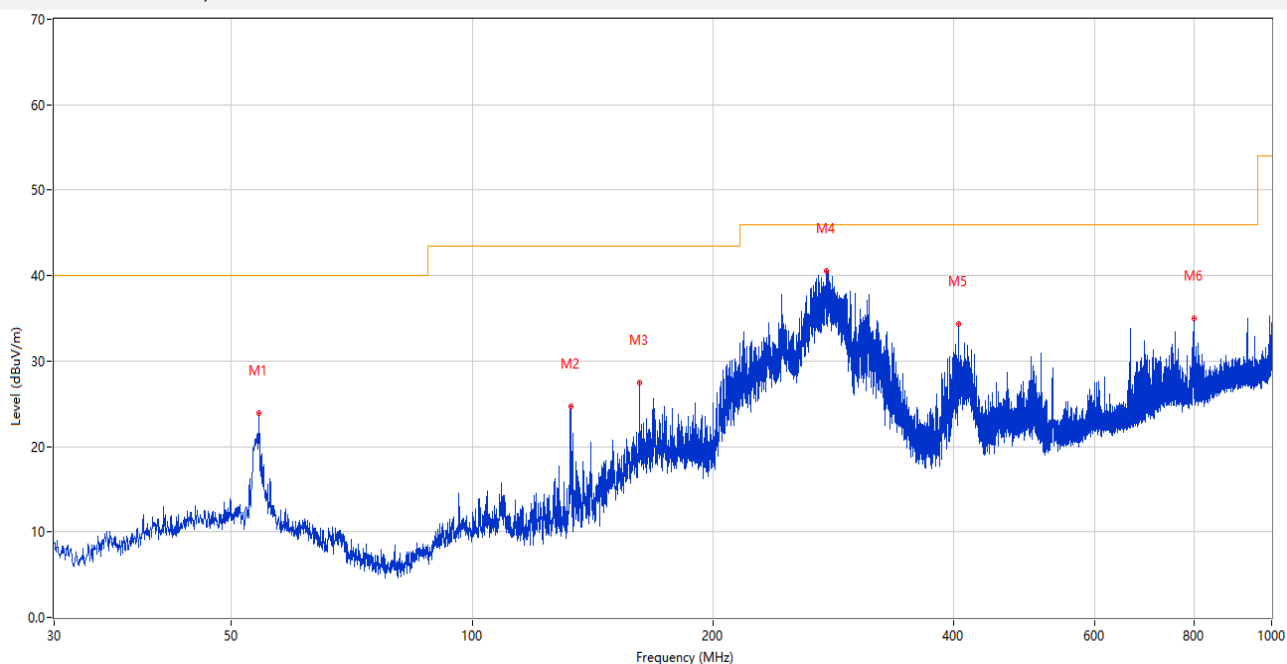
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.474	22.59	-24.87	40.0	17.41	Peak	77.00	100	Vertical	Pass
2	170.796	25.99	-28.38	43.5	17.51	Peak	218.00	200	Vertical	Pass
3	275.168	38.28	-24.02	46.0	7.72	Peak	218.00	200	Vertical	Pass
4	319.060	37.12	-22.80	46.0	8.88	Peak	169.00	200	Vertical	Pass
5	418.873	35.74	-19.87	46.0	10.26	Peak	353.00	100	Vertical	Pass
6	797.222	37.57	-11.76	46.0	8.43	Peak	144.00	100	Vertical	Pass

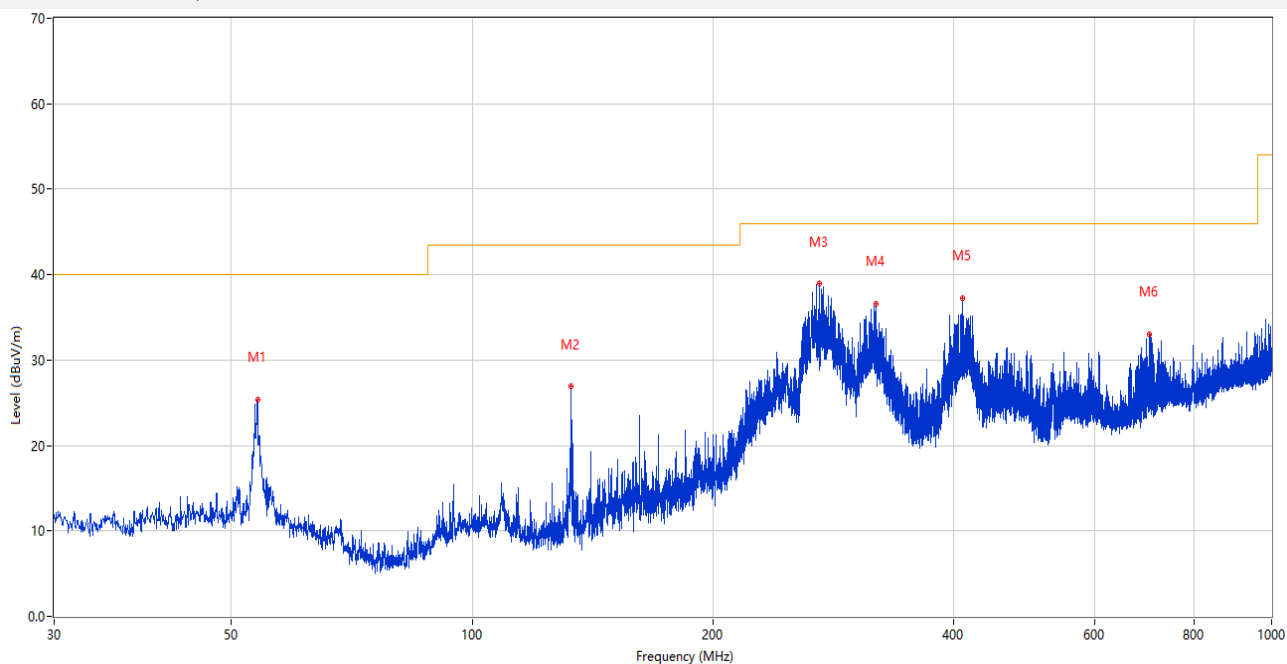
Aux. Antenna:

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.153	23.88	-24.97	40.0	16.12	Peak	360.00	200	Horizontal	Pass
2	132.771	24.75	-29.20	43.5	18.75	Peak	106.00	200	Horizontal	Pass
3	162.017	27.43	-28.67	43.5	16.07	Peak	352.00	100	Horizontal	Pass
4	277.398	40.50	-23.90	46.0	5.50	Peak	12.00	100	Horizontal	Pass
5	406.263	34.30	-20.25	46.0	11.70	Peak	113.00	200	Horizontal	Pass
6	799.841	35.02	-11.66	46.0	10.98	Peak	352.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



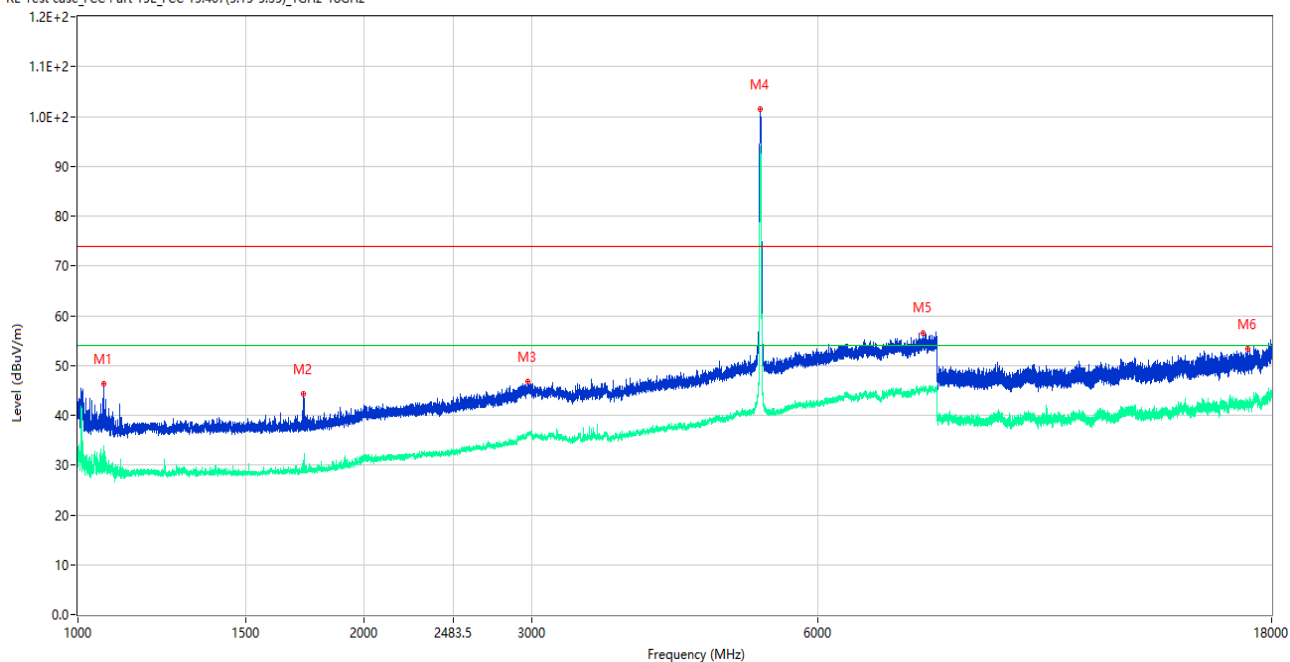
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.910	25.41	-24.93	40.0	14.59	Peak	111.00	100	Vertical	Pass
2	132.917	26.88	-29.20	43.5	16.62	Peak	264.00	100	Vertical	Pass
3	272.209	38.90	-24.06	46.0	7.10	Peak	228.00	200	Vertical	Pass
4	320.176	36.55	-22.67	46.0	9.45	Peak	150.00	200	Vertical	Pass
5	410.143	37.21	-20.19	46.0	8.79	Peak	111.00	100	Vertical	Pass
6	703.277	33.00	-13.72	46.0	13.00	Peak	111.00	100	Vertical	Pass

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

Main Antenna:

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

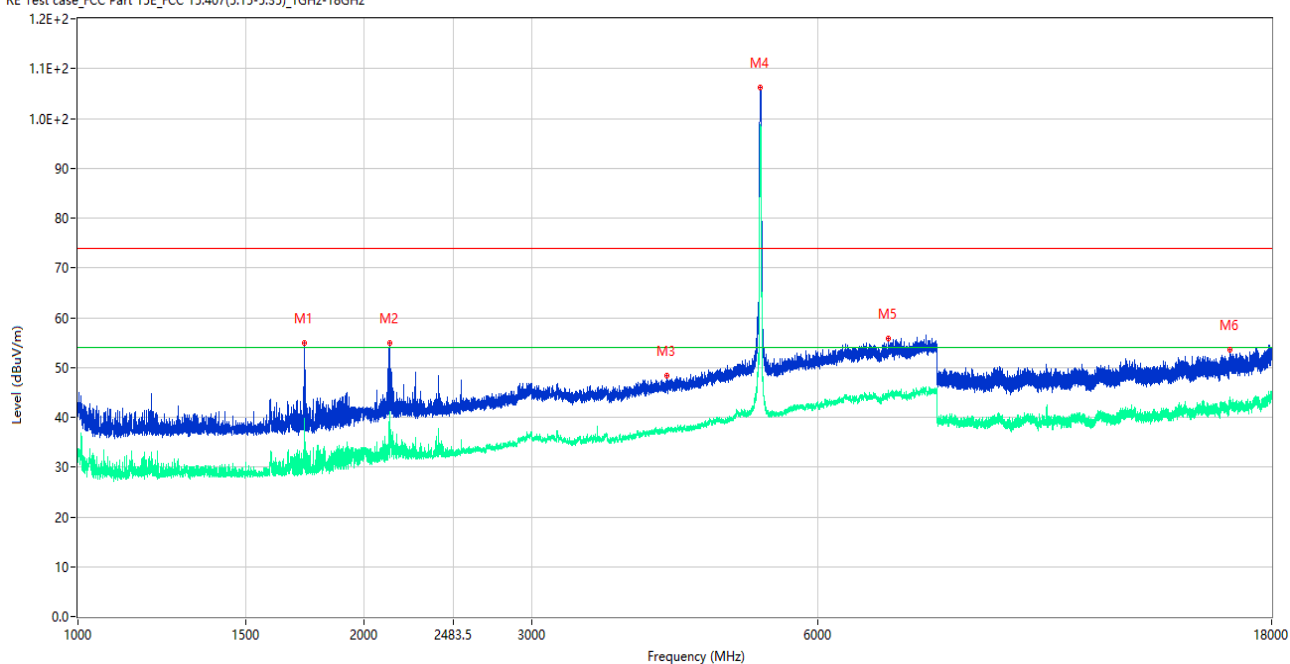
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.250	46.22	-15.57	74.0	27.78	Peak	152.00	150	Horizontal	Pass
1**	1065.250	28.70	-15.57	54.0	25.30	AV	152.00	150	Horizontal	Pass
2	1725.500	44.31	-15.16	74.0	29.69	Peak	351.00	150	Horizontal	Pass
2**	1725.500	28.66	-15.16	54.0	25.34	AV	351.00	150	Horizontal	Pass
3	2973.750	46.70	-6.36	74.0	27.30	Peak	136.00	150	Horizontal	Pass
3**	2973.750	36.09	-6.36	54.0	17.91	AV	136.00	150	Horizontal	Pass
4	5218.000	101.45	-0.92	74.0	-27.45	Peak	109.00	150	Horizontal	N/A
4**	5218.000	93.30	-0.92	54.0	-39.30	AV	109.00	150	Horizontal	N/A
5	7737.500	56.60	3.33	74.0	17.40	Peak	307.00	150	Horizontal	Pass
5**	7737.500	45.54	3.33	54.0	8.46	AV	307.00	150	Horizontal	Pass
6	16983.863	53.40	2.00	74.0	20.60	Peak	118.00	150	Horizontal	Pass
6**	16983.863	42.23	2.00	54.0	11.77	AV	118.00	150	Horizontal	Pass

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

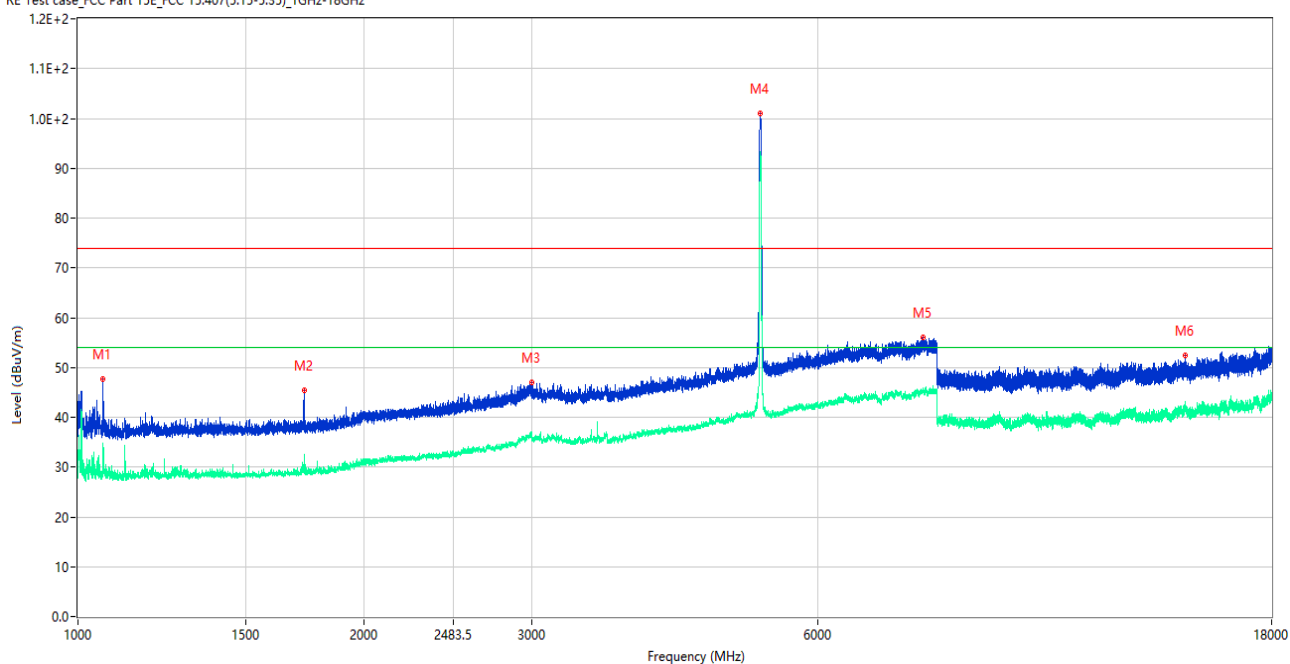
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1730.500	54.99	-15.32	74.0	19.01	Peak	117.00	150	Vertical	Pass
1**	1730.500	31.20	-15.32	54.0	22.80	AV	117.00	150	Vertical	Pass
2	2126.500	54.84	-12.16	74.0	19.16	Peak	129.00	150	Vertical	Pass
2**	2126.500	35.06	-12.16	54.0	18.94	AV	129.00	150	Vertical	Pass
3	4161.500	48.31	-3.63	74.0	25.69	Peak	0.00	150	Vertical	Pass
3**	4161.500	37.30	-3.63	54.0	16.70	AV	0.00	150	Vertical	Pass
4	5218.500	106.24	-0.91	74.0	-32.24	Peak	80.00	150	Vertical	N/A
4**	5218.500	98.61	-0.91	54.0	-44.61	AV	80.00	150	Vertical	N/A
5	7122.500	55.85	2.37	74.0	18.15	Peak	253.00	150	Vertical	Pass
5**	7122.500	44.65	2.37	54.0	9.35	AV	253.00	150	Vertical	Pass
6	16286.925	53.62	2.49	74.0	20.38	Peak	151.00	150	Vertical	Pass
6**	16286.925	42.88	2.49	54.0	11.12	AV	151.00	150	Vertical	Pass

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

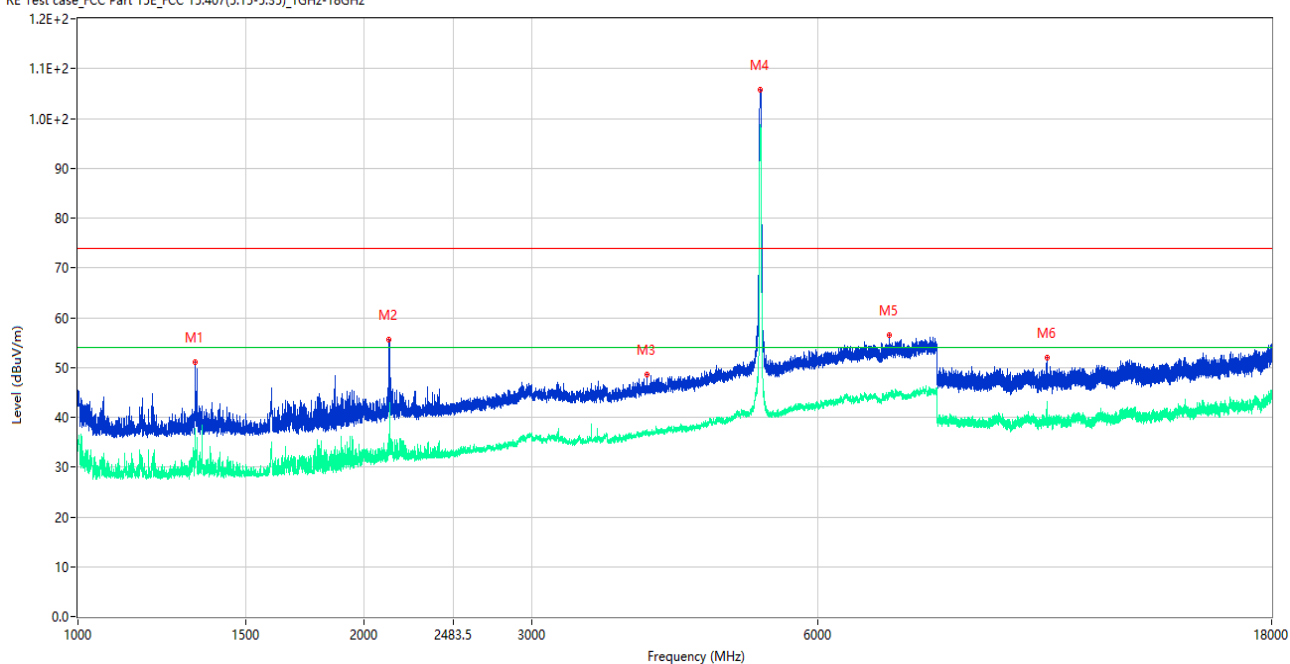
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1061.750	47.61	-15.57	74.0	26.39	Peak	158.00	150	Horizontal	Pass
1**	1061.750	31.83	-15.57	54.0	22.17	AV	158.00	150	Horizontal	Pass
2	1731.000	45.38	-15.35	74.0	28.62	Peak	355.00	150	Horizontal	Pass
2**	1731.000	28.87	-15.35	54.0	25.13	AV	355.00	150	Horizontal	Pass
3	2999.000	46.96	-5.52	74.0	27.04	Peak	348.00	150	Horizontal	Pass
3**	2999.000	36.40	-5.52	54.0	17.60	AV	348.00	150	Horizontal	Pass
4	5221.500	100.92	-0.84	74.0	-26.92	Peak	32.00	150	Horizontal	N/A
4**	5221.500	93.33	-0.84	54.0	-39.33	AV	32.00	150	Horizontal	N/A
5	7732.500	55.94	3.20	74.0	18.06	Peak	14.00	150	Horizontal	Pass
5**	7732.500	45.63	3.20	54.0	8.37	AV	14.00	150	Horizontal	Pass
6	14602.200	52.49	0.85	74.0	21.51	Peak	69.00	150	Horizontal	Pass
6**	14602.200	41.83	0.85	54.0	12.17	AV	69.00	150	Horizontal	Pass

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

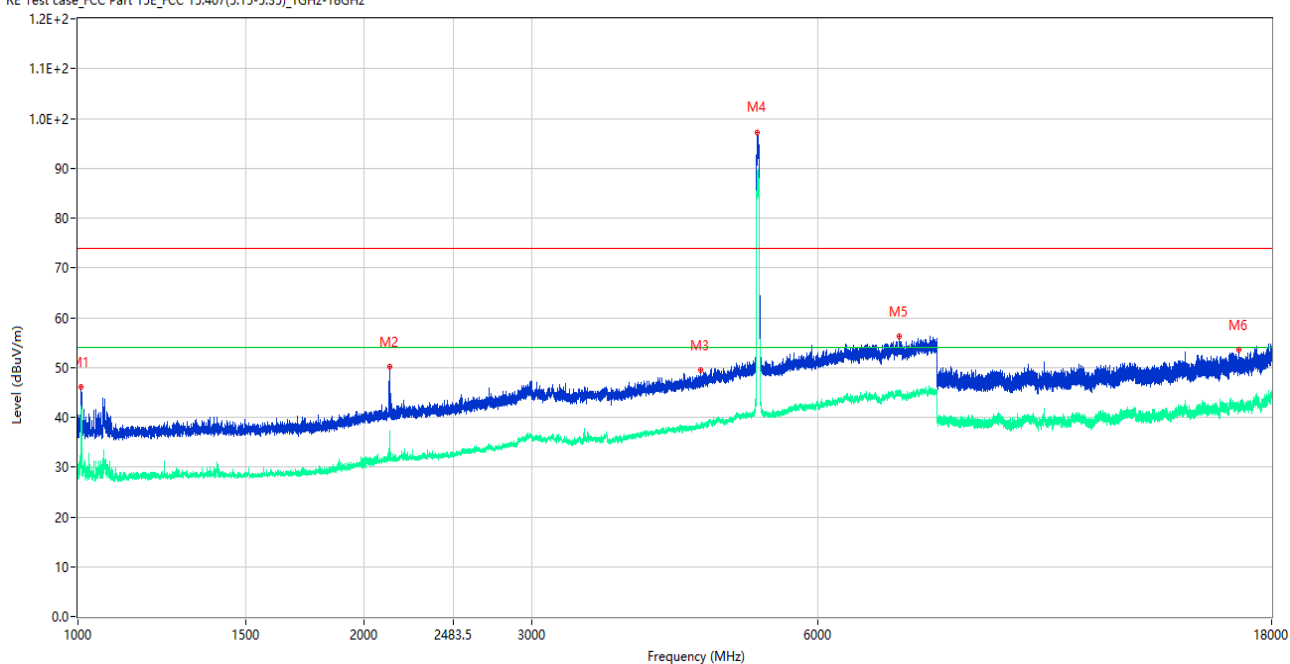
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.250	51.09	-15.50	74.0	22.91	Peak	117.00	150	Vertical	Pass
1**	1328.250	32.36	-15.50	54.0	21.64	AV	117.00	150	Vertical	Pass
2	2125.000	55.56	-12.22	74.0	18.44	Peak	143.00	150	Vertical	Pass
2**	2125.000	33.19	-12.22	54.0	20.81	AV	143.00	150	Vertical	Pass
3	3965.000	48.51	-3.21	74.0	25.49	Peak	2.00	150	Vertical	Pass
3**	3965.000	36.98	-3.21	54.0	17.02	AV	2.00	150	Vertical	Pass
4	5220.500	105.78	-0.85	74.0	-31.78	Peak	60.00	150	Vertical	N/A
4**	5220.500	97.32	-0.85	54.0	-43.32	AV	60.00	150	Vertical	N/A
5	7127.000	56.45	2.08	74.0	17.55	Peak	272.00	150	Vertical	Pass
5**	7127.000	44.44	2.08	54.0	9.56	AV	272.00	150	Vertical	Pass
6	10441.026	52.01	-1.13	74.0	21.99	Peak	75.00	150	Vertical	Pass
6**	10441.026	40.20	-1.13	54.0	13.80	AV	75.00	150	Vertical	Pass

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

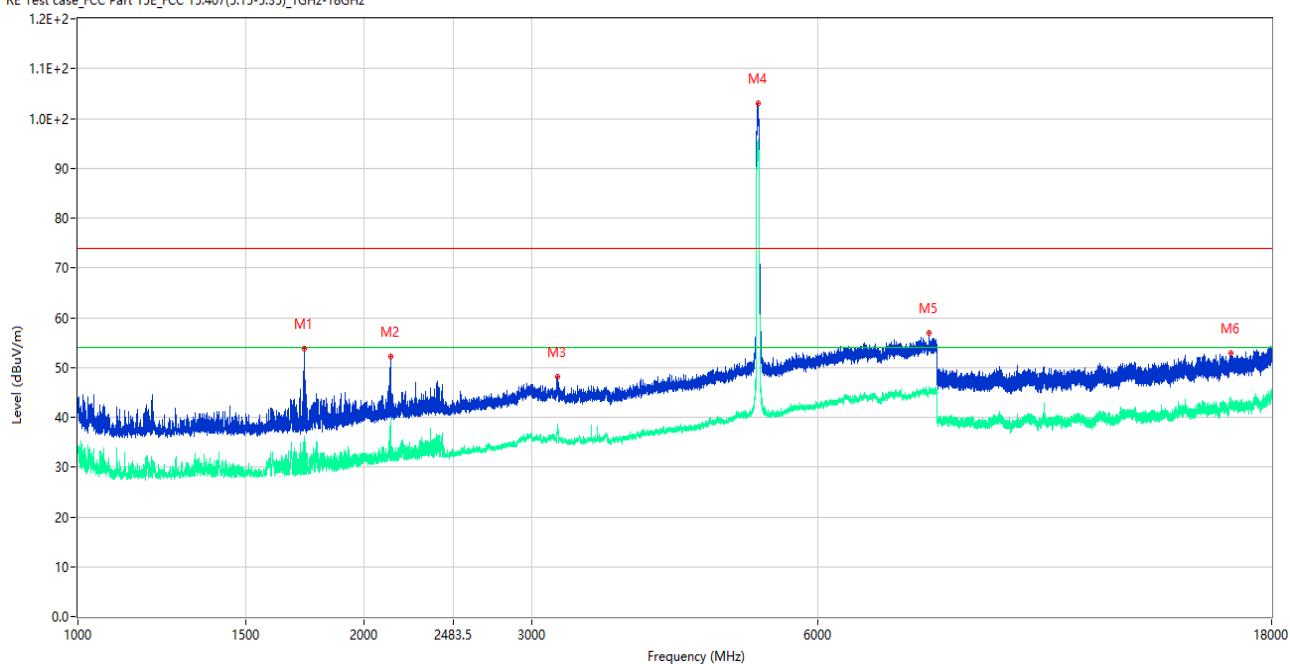
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.000	46.03	-15.30	74.0	27.97	Peak	86.00	150	Horizontal	Pass
1**	1008.000	41.71	-15.30	54.0	12.29	AV	86.00	150	Horizontal	Pass
2	2127.500	50.24	-12.14	74.0	23.76	Peak	181.00	150	Horizontal	Pass
2**	2127.500	31.23	-12.14	54.0	22.77	AV	181.00	150	Horizontal	Pass
3	4521.500	49.49	-1.80	74.0	24.51	Peak	340.00	150	Horizontal	Pass
3**	4521.500	38.09	-1.80	54.0	15.91	AV	340.00	150	Horizontal	Pass
4	5186.000	97.28	-0.99	74.0	-23.28	Peak	101.00	150	Horizontal	N/A
4**	5186.000	89.57	-0.99	54.0	-35.57	AV	101.00	150	Horizontal	N/A
5	7309.000	56.34	2.59	74.0	17.66	Peak	51.00	150	Horizontal	Pass
5**	7309.000	44.65	2.59	54.0	9.35	AV	51.00	150	Horizontal	Pass
6	16640.512	53.48	1.76	74.0	20.52	Peak	360.00	150	Horizontal	Pass
6**	16640.512	41.65	1.76	54.0	12.35	AV	360.00	150	Horizontal	Pass

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

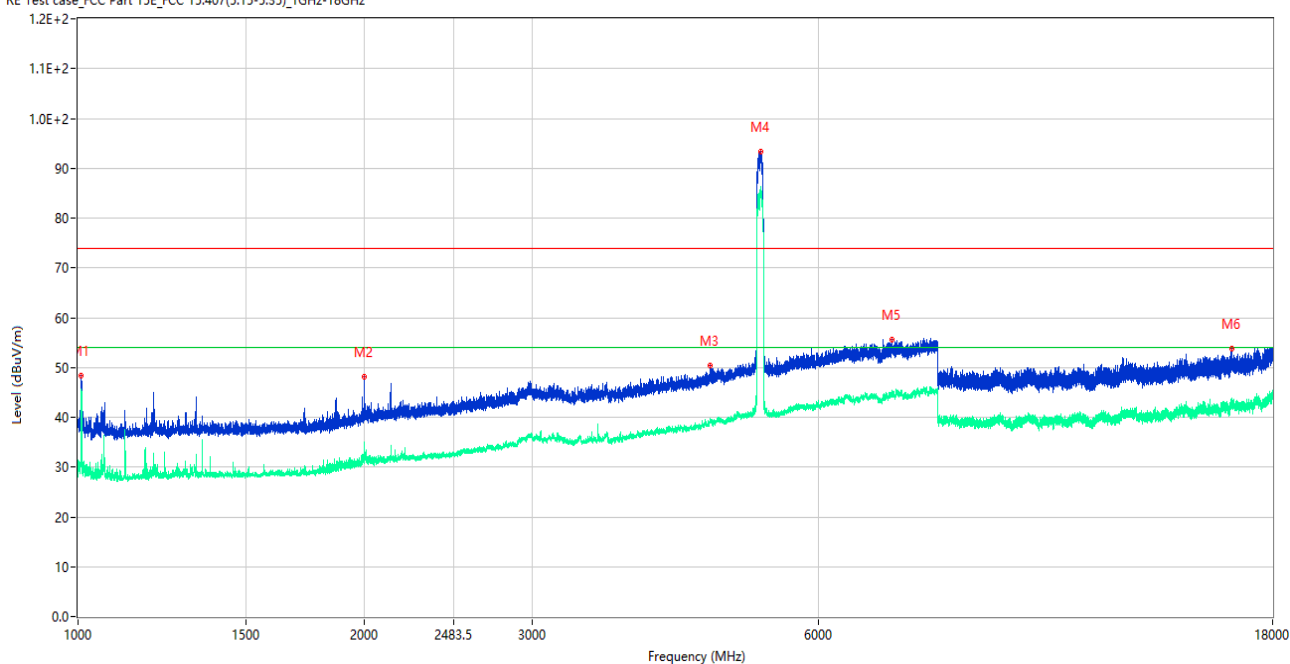
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1729.500	53.70	-15.24	74.0	20.30	Peak	106.00	150	Vertical	Pass
1**	1729.500	35.76	-15.24	54.0	18.24	AV	106.00	150	Vertical	Pass
2	2131.750	52.15	-11.98	74.0	21.85	Peak	127.00	150	Vertical	Pass
2**	2131.750	31.86	-11.98	54.0	22.14	AV	127.00	150	Vertical	Pass
3	3196.000	48.22	-6.62	74.0	25.78	Peak	94.00	150	Vertical	Pass
3**	3196.000	37.57	-6.62	54.0	16.43	AV	94.00	150	Vertical	Pass
4	5193.500	102.94	-1.11	74.0	-28.94	Peak	65.00	150	Vertical	N/A
4**	5193.500	95.31	-1.11	54.0	-41.31	AV	65.00	150	Vertical	N/A
5	7853.000	56.90	3.75	74.0	17.10	Peak	340.00	150	Vertical	Pass
5**	7853.000	45.45	3.75	54.0	8.55	AV	340.00	150	Vertical	Pass
6	16294.537	52.81	2.29	74.0	21.19	Peak	173.00	150	Vertical	Pass
6**	16294.537	42.89	2.29	54.0	11.11	AV	173.00	150	Vertical	Pass

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

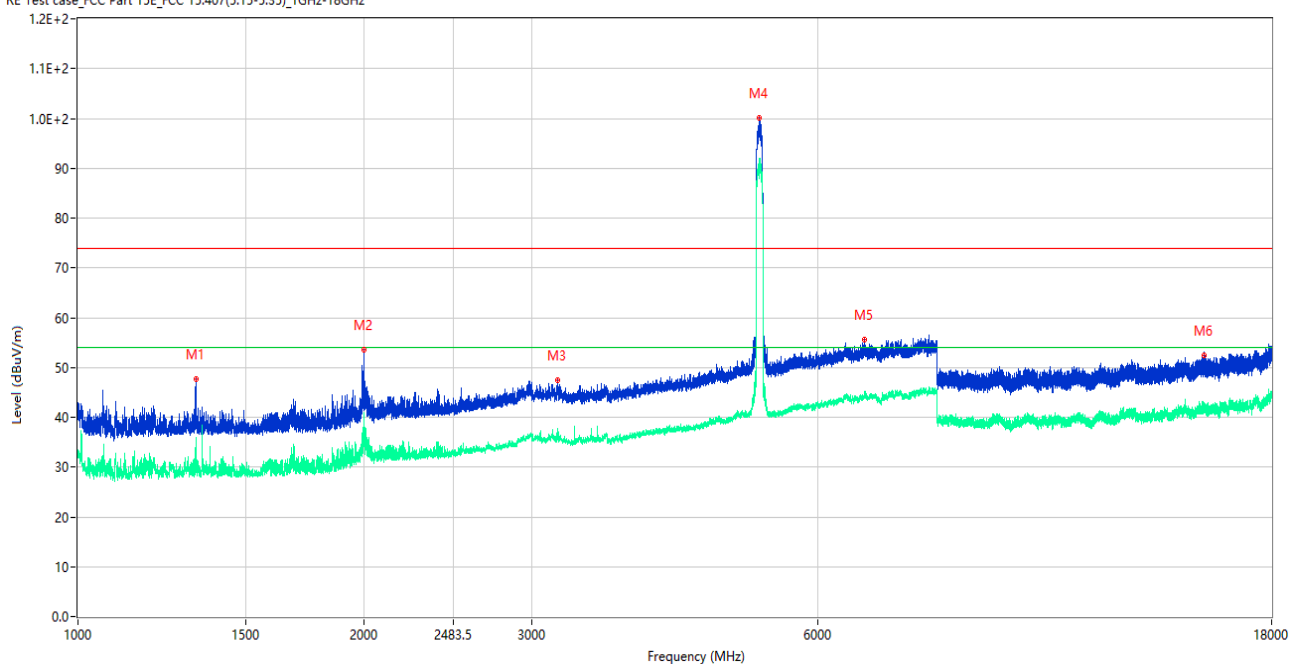
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.250	48.40	-15.31	74.0	25.60	Peak	99.00	150	Horizontal	Pass
1**	1008.250	45.69	-15.31	54.0	8.31	AV	99.00	150	Horizontal	Pass
2	1999.250	48.18	-13.17	74.0	25.82	Peak	121.00	150	Horizontal	Pass
2**	1999.250	33.42	-13.17	54.0	20.58	AV	121.00	150	Horizontal	Pass
3	4612.500	50.32	-2.30	74.0	23.68	Peak	192.00	150	Horizontal	Pass
3**	4612.500	39.14	-2.30	54.0	14.86	AV	192.00	150	Horizontal	Pass
4	5211.500	93.35	-0.94	74.0	-19.35	Peak	31.00	150	Horizontal	N/A
4**	5211.500	85.73	-0.94	54.0	-31.73	AV	31.00	150	Horizontal	N/A
5	7170.500	55.67	2.28	74.0	18.33	Peak	360.00	150	Horizontal	Pass
5**	7170.500	45.11	2.28	54.0	8.89	AV	360.00	150	Horizontal	Pass
6	16299.525	53.78	2.21	74.0	20.22	Peak	207.00	150	Horizontal	Pass
6**	16299.525	42.85	2.21	54.0	11.15	AV	207.00	150	Horizontal	Pass

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

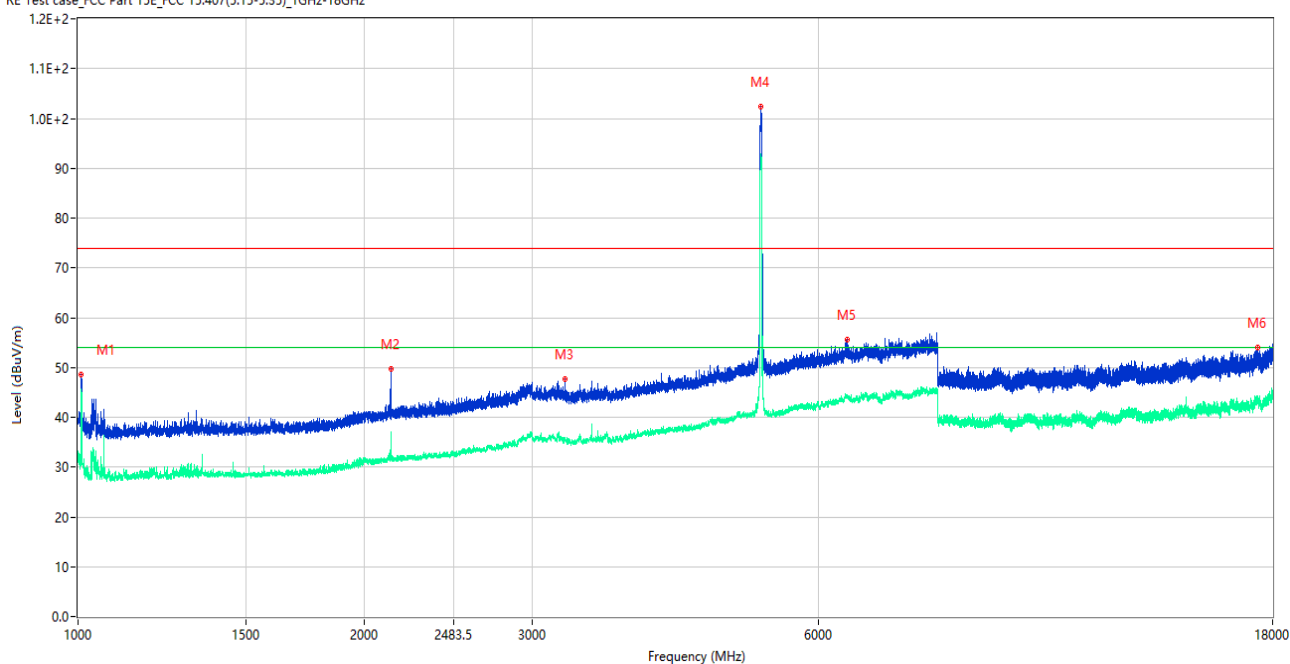
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.750	47.70	-15.52	74.0	26.30	Peak	72.00	150	Vertical	Pass
1**	1329.750	30.63	-15.52	54.0	23.37	AV	72.00	150	Vertical	Pass
2	1999.250	53.63	-13.17	74.0	20.37	Peak	129.00	150	Vertical	Pass
2**	1999.250	35.40	-13.17	54.0	18.60	AV	129.00	150	Vertical	Pass
3	3194.500	47.37	-6.59	74.0	26.63	Peak	82.00	150	Vertical	Pass
3**	3194.500	37.27	-6.59	54.0	16.73	AV	82.00	150	Vertical	Pass
4	5203.500	100.11	-0.94	74.0	-26.11	Peak	51.00	150	Vertical	N/A
4**	5203.500	89.59	-0.94	54.0	-35.59	AV	51.00	150	Vertical	N/A
5	6723.500	55.70	2.42	74.0	18.30	Peak	360.00	150	Vertical	Pass
5**	6723.500	44.51	2.42	54.0	9.49	AV	360.00	150	Vertical	Pass
6	15269.737	52.32	1.94	74.0	21.68	Peak	346.00	150	Vertical	Pass
6**	15269.737	42.28	1.94	54.0	11.72	AV	346.00	150	Vertical	Pass

11ax20 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

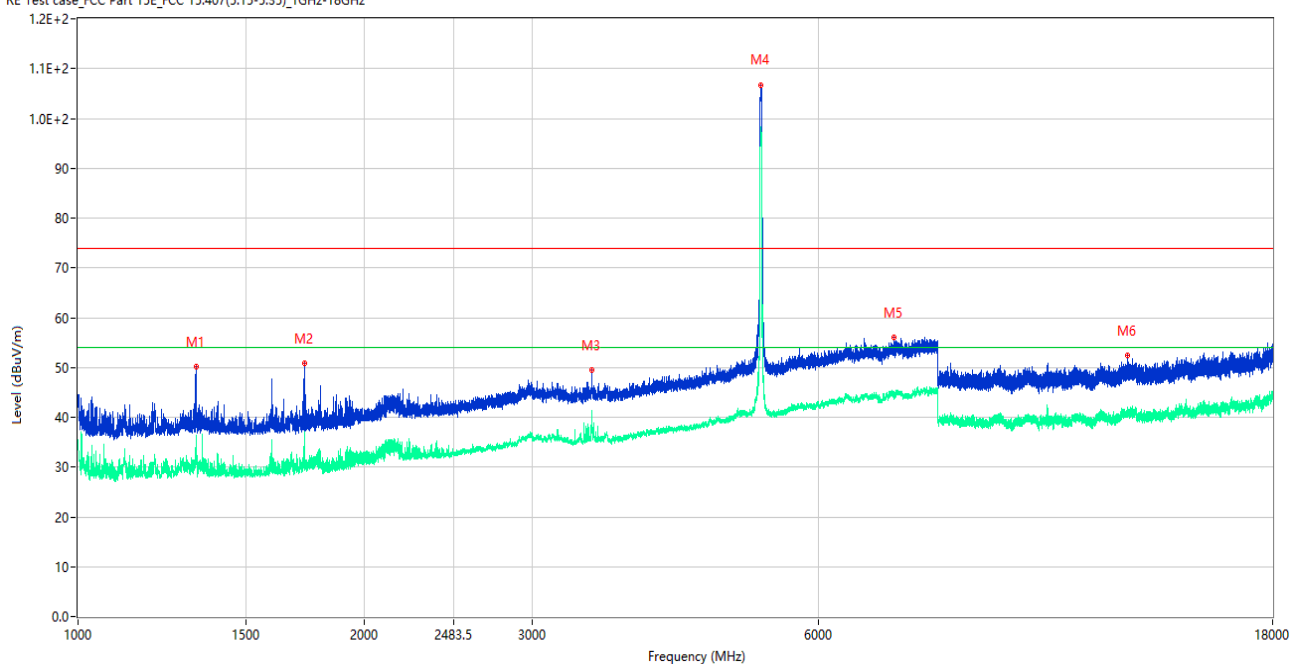
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.000	48.64	-15.30	74.0	25.36	Peak	101.00	150	Horizontal	Pass
1**	1008.000	44.87	-15.30	54.0	9.13	AV	101.00	150	Horizontal	Pass
2	2131.500	49.61	-11.98	74.0	24.39	Peak	185.00	150	Horizontal	Pass
2**	2131.500	31.36	-11.98	54.0	22.64	AV	185.00	150	Horizontal	Pass
3	3248.500	47.69	-6.60	74.0	26.31	Peak	340.00	150	Horizontal	Pass
3**	3248.500	35.35	-6.60	54.0	18.65	AV	340.00	150	Horizontal	Pass
4	5220.500	102.32	-0.85	74.0	-28.32	Peak	31.00	150	Horizontal	N/A
4**	5220.500	91.74	-0.85	54.0	-37.74	AV	31.00	150	Horizontal	N/A
5	6436.000	55.65	2.03	74.0	18.35	Peak	340.00	150	Horizontal	Pass
5**	6436.000	44.49	2.03	54.0	9.51	AV	340.00	150	Horizontal	Pass
6	17346.900	54.07	4.07	74.0	19.93	Peak	9.00	150	Horizontal	Pass
6**	17346.900	43.58	4.07	54.0	10.42	AV	9.00	150	Horizontal	Pass

11ax20 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

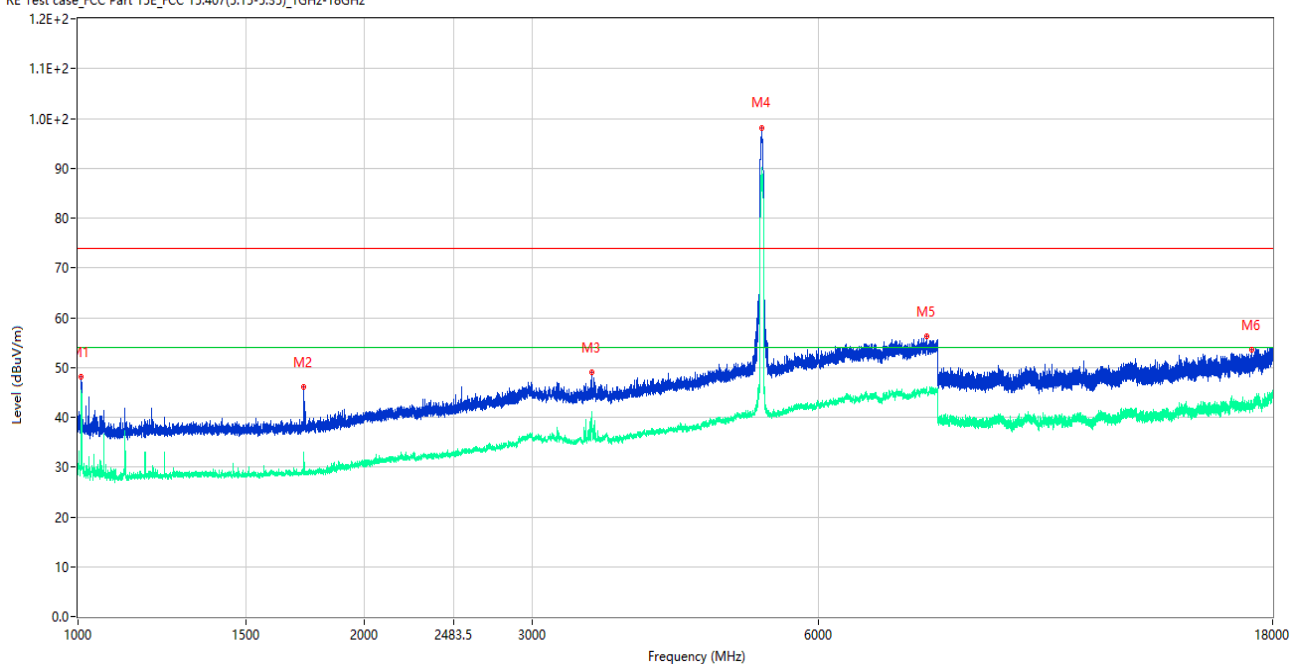
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.750	50.10	-15.52	74.0	23.90	Peak	111.00	150	Vertical	Pass
1**	1329.750	30.55	-15.52	54.0	23.45	AV	111.00	150	Vertical	Pass
2	1731.500	50.75	-15.35	74.0	23.25	Peak	101.00	150	Vertical	Pass
2**	1731.500	30.03	-15.35	54.0	23.97	AV	101.00	150	Vertical	Pass
3	3465.000	49.41	-5.47	74.0	24.59	Peak	360.00	150	Vertical	Pass
3**	3465.000	38.37	-5.47	54.0	15.63	AV	360.00	150	Vertical	Pass
4	5218.500	106.77	-0.91	74.0	-32.77	Peak	47.00	150	Vertical	N/A
4**	5218.500	98.10	-0.91	54.0	-44.10	AV	47.00	150	Vertical	N/A
5	7199.000	55.97	2.39	74.0	18.03	Peak	270.00	150	Vertical	Pass
5**	7199.000	44.60	2.39	54.0	9.40	AV	270.00	150	Vertical	Pass
6	12671.625	52.37	-0.28	74.0	21.63	Peak	292.00	150	Vertical	Pass
6**	12671.625	40.69	-0.28	54.0	13.31	AV	292.00	150	Vertical	Pass

11ax40 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

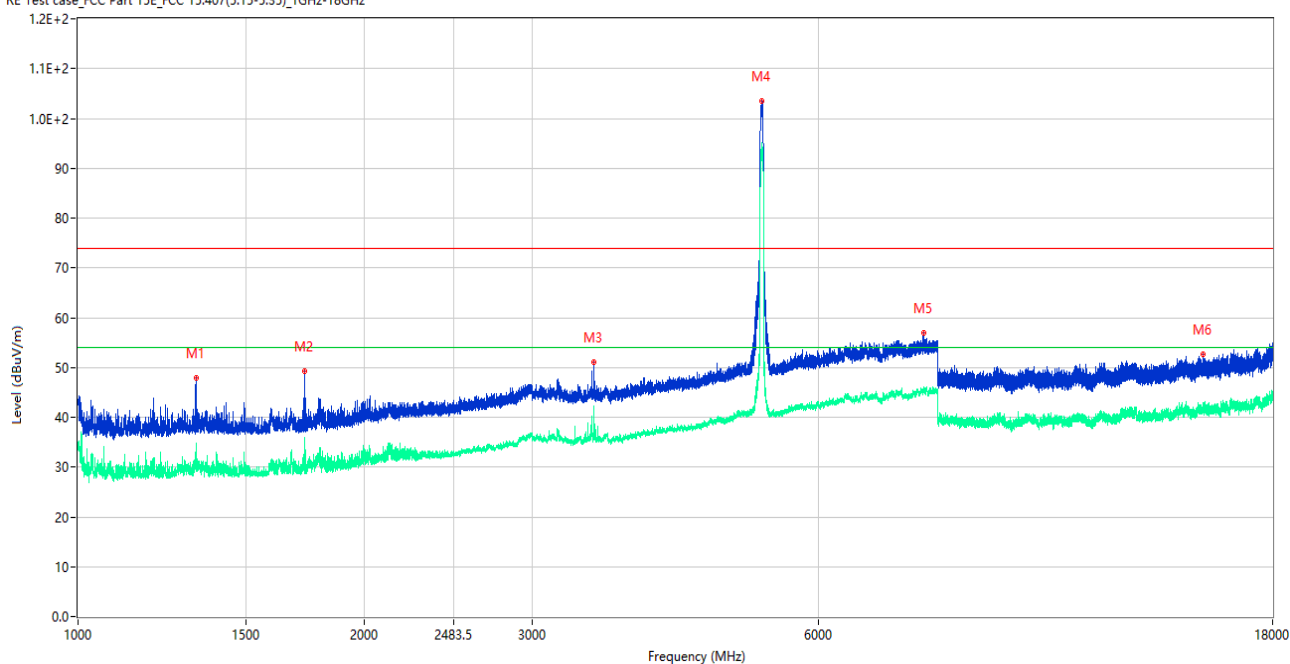
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1007.750	48.17	-15.29	74.0	25.83	Peak	98.00	150	Horizontal	Pass
1**	1007.750	43.23	-15.29	54.0	10.77	AV	98.00	150	Horizontal	Pass
2	1727.250	46.01	-15.18	74.0	27.99	Peak	337.00	150	Horizontal	Pass
2**	1727.250	29.90	-15.18	54.0	24.10	AV	337.00	150	Horizontal	Pass
3	3467.000	49.00	-5.65	74.0	25.00	Peak	360.00	150	Horizontal	Pass
3**	3467.000	40.29	-5.65	54.0	13.71	AV	360.00	150	Horizontal	Pass
4	5227.000	98.18	-0.81	74.0	-24.18	Peak	66.00	150	Horizontal	N/A
4**	5227.000	89.19	-0.81	54.0	-35.19	AV	66.00	150	Horizontal	N/A
5	7790.500	56.25	3.78	74.0	17.75	Peak	308.00	150	Horizontal	Pass
5**	7790.500	46.06	3.78	54.0	7.94	AV	308.00	150	Horizontal	Pass
6	17124.301	53.51	2.72	74.0	20.49	Peak	309.00	150	Horizontal	Pass
6**	17124.301	42.18	2.72	54.0	11.82	AV	309.00	150	Horizontal	Pass

11ax40 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

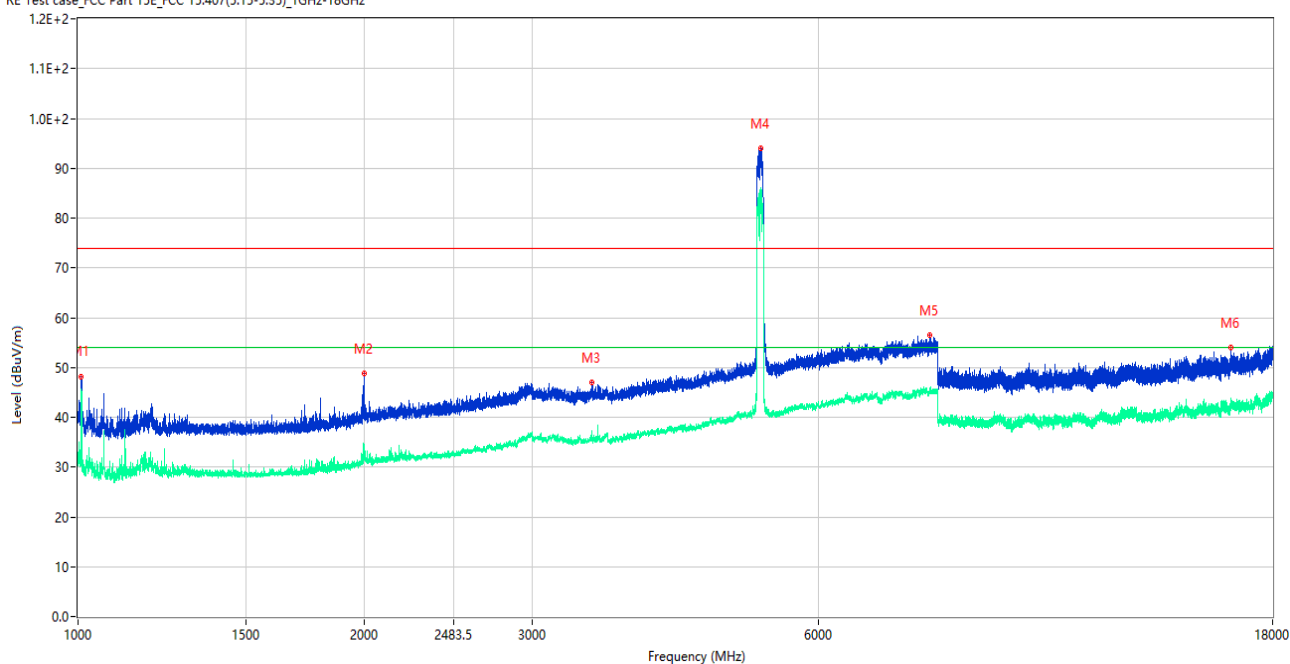
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.500	47.92	-15.55	74.0	26.08	Peak	80.00	150	Vertical	Pass
1**	1332.500	29.70	-15.55	54.0	24.30	AV	80.00	150	Vertical	Pass
2	1732.000	49.21	-15.36	74.0	24.79	Peak	101.00	150	Vertical	Pass
2**	1732.000	29.71	-15.36	54.0	24.29	AV	101.00	150	Vertical	Pass
3	3481.000	51.11	-6.17	74.0	22.89	Peak	355.00	150	Vertical	Pass
3**	3481.000	42.04	-6.17	54.0	11.96	AV	355.00	150	Vertical	Pass
4	5231.500	103.45	-0.86	74.0	-29.45	Peak	50.00	150	Vertical	N/A
4**	5231.500	93.52	-0.86	54.0	-39.52	AV	50.00	150	Vertical	N/A
5	7748.500	57.01	3.59	74.0	16.99	Peak	208.00	150	Vertical	Pass
5**	7748.500	45.17	3.59	54.0	8.83	AV	208.00	150	Vertical	Pass
6	15202.275	52.59	0.73	74.0	21.41	Peak	360.00	150	Vertical	Pass
6**	15202.275	41.37	0.73	54.0	12.63	AV	360.00	150	Vertical	Pass

11ax80 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

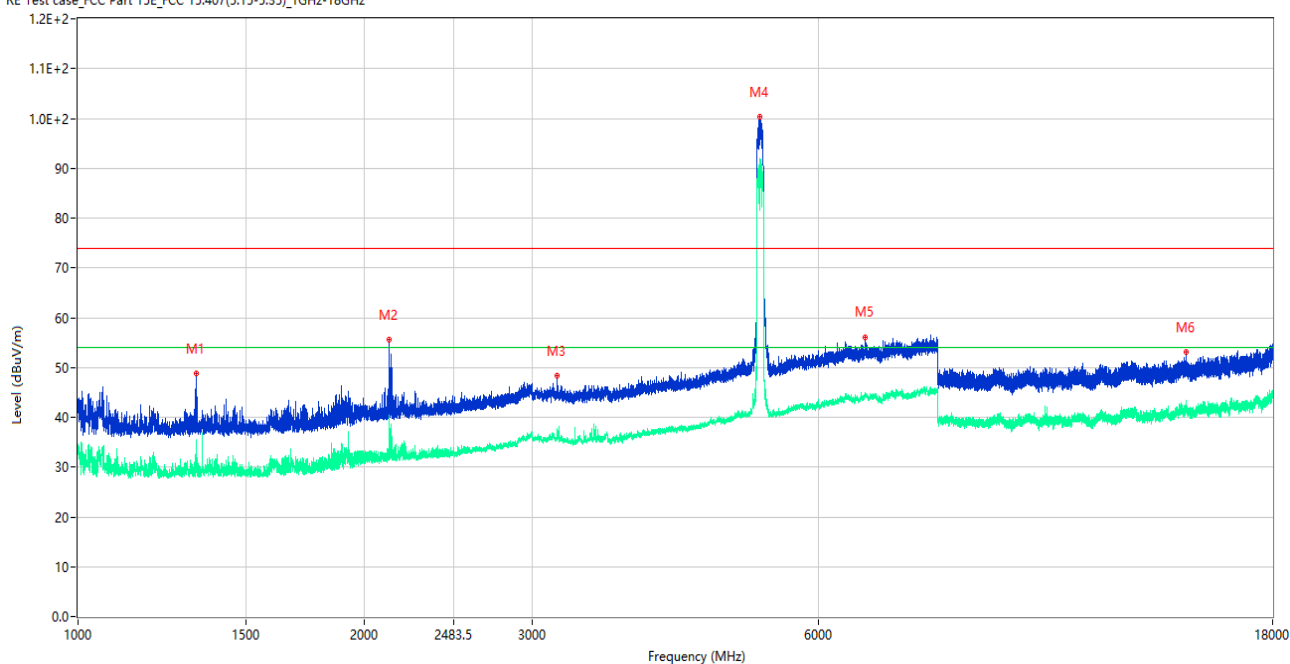
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.000	48.23	-15.30	74.0	25.77	Peak	96.00	150	Horizontal	Pass
1**	1008.000	45.32	-15.30	54.0	8.68	AV	96.00	150	Horizontal	Pass
2	1997.000	48.75	-13.29	74.0	25.25	Peak	115.00	150	Horizontal	Pass
2**	1997.000	33.45	-13.29	54.0	20.55	AV	115.00	150	Horizontal	Pass
3	3470.000	47.07	-5.98	74.0	26.93	Peak	321.00	150	Horizontal	Pass
3**	3470.000	35.40	-5.98	54.0	18.60	AV	321.00	150	Horizontal	Pass
4	5218.000	94.05	-0.92	74.0	-20.05	Peak	32.00	150	Horizontal	N/A
4**	5218.000	85.32	-0.92	54.0	-31.32	AV	32.00	150	Horizontal	N/A
5	7857.500	56.39	3.77	74.0	17.61	Peak	302.00	150	Horizontal	Pass
5**	7857.500	45.55	3.77	54.0	8.45	AV	302.00	150	Horizontal	Pass
6	16290.076	53.92	2.30	74.0	20.08	Peak	325.00	150	Horizontal	Pass
6**	16290.076	42.43	2.30	54.0	11.57	AV	325.00	150	Horizontal	Pass

11ax80 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

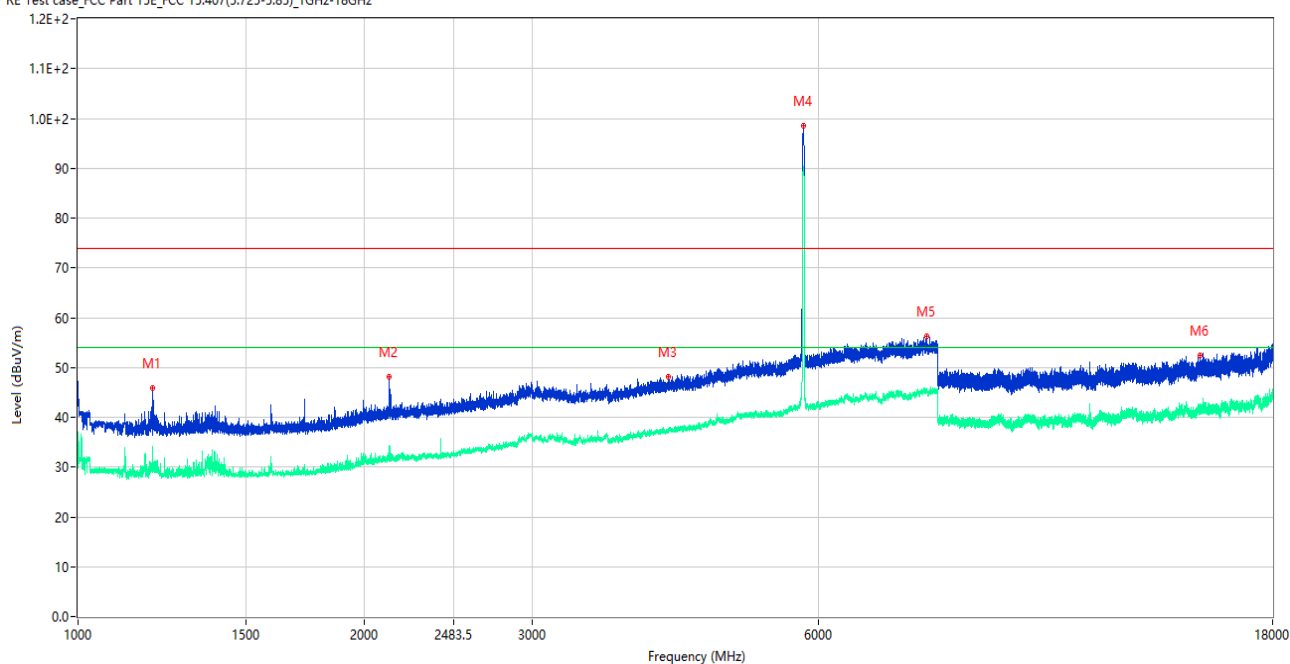
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.750	48.90	-15.53	74.0	25.10	Peak	150.00	150	Vertical	Pass
1**	1331.750	29.53	-15.53	54.0	24.47	AV	150.00	150	Vertical	Pass
2	2124.000	55.67	-12.24	74.0	18.33	Peak	137.00	150	Vertical	Pass
2**	2124.000	31.83	-12.24	54.0	22.17	AV	137.00	150	Vertical	Pass
3	3186.000	48.42	-6.47	74.0	25.58	Peak	81.00	150	Vertical	Pass
3**	3186.000	36.15	-6.47	54.0	17.85	AV	81.00	150	Vertical	Pass
4	5205.500	100.30	-0.87	74.0	-26.30	Peak	59.00	150	Vertical	N/A
4**	5205.500	92.06	-0.87	54.0	-38.06	AV	59.00	150	Vertical	N/A
5	6713.000	56.13	2.23	74.0	17.87	Peak	139.00	150	Vertical	Pass
5**	6713.000	44.56	2.23	54.0	9.44	AV	139.00	150	Vertical	Pass
6	14595.637	53.01	1.20	74.0	20.99	Peak	0.00	150	Vertical	Pass
6**	14595.637	42.95	1.20	54.0	11.05	AV	0.00	150	Vertical	Pass

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

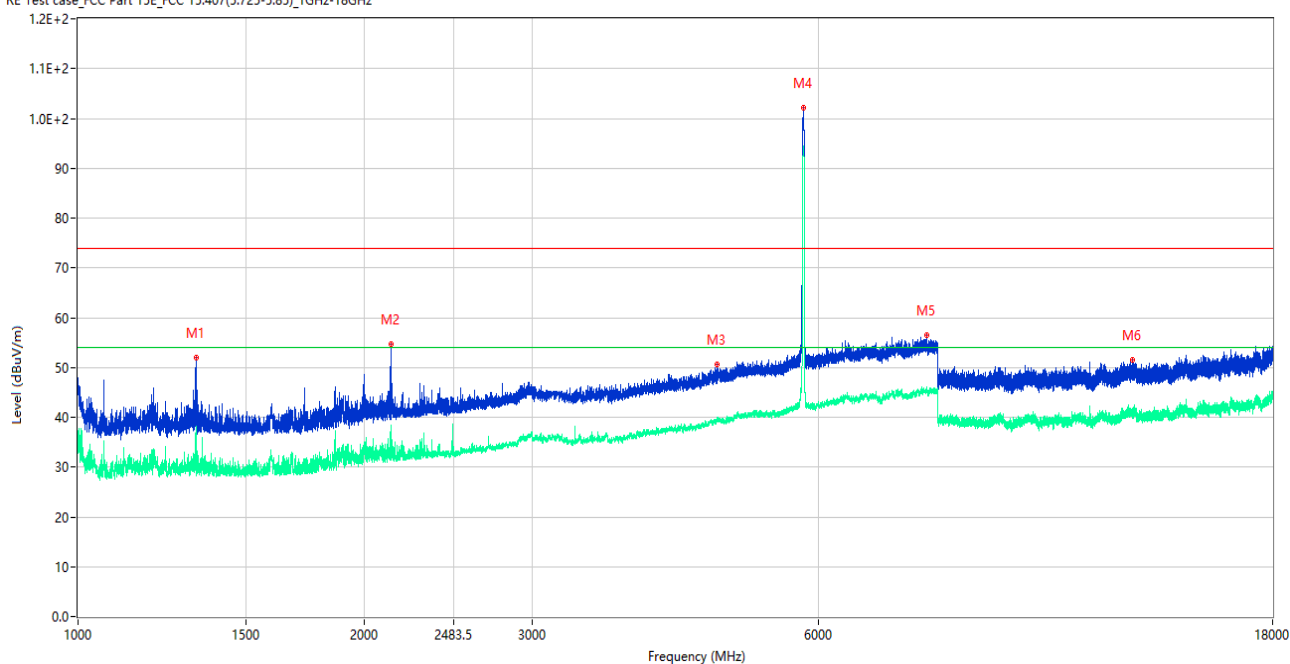
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.000	45.94	-15.27	74.0	28.06	Peak	76.00	150	Horizontal	Pass
1**	1198.000	28.85	-15.27	54.0	25.15	AV	76.00	150	Horizontal	Pass
2	2123.500	48.21	-12.24	74.0	25.79	Peak	272.00	150	Horizontal	Pass
2**	2123.500	33.92	-12.24	54.0	20.08	AV	272.00	150	Horizontal	Pass
3	4168.500	48.20	-3.51	74.0	25.80	Peak	229.00	150	Horizontal	Pass
3**	4168.500	37.40	-3.51	54.0	16.60	AV	229.00	150	Horizontal	Pass
4	5780.500	98.46	0.37	74.0	-24.46	Peak	77.00	150	Horizontal	N/A
4**	5780.500	89.33	0.37	54.0	-35.33	AV	77.00	150	Horizontal	N/A
5	7793.500	56.22	3.90	74.0	17.78	Peak	49.00	150	Horizontal	Pass
5**	7793.500	45.67	3.90	54.0	8.33	AV	49.00	150	Horizontal	Pass
6	15084.151	52.41	1.29	74.0	21.59	Peak	312.00	150	Horizontal	Pass
6**	15084.151	41.31	1.29	54.0	12.69	AV	312.00	150	Horizontal	Pass

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

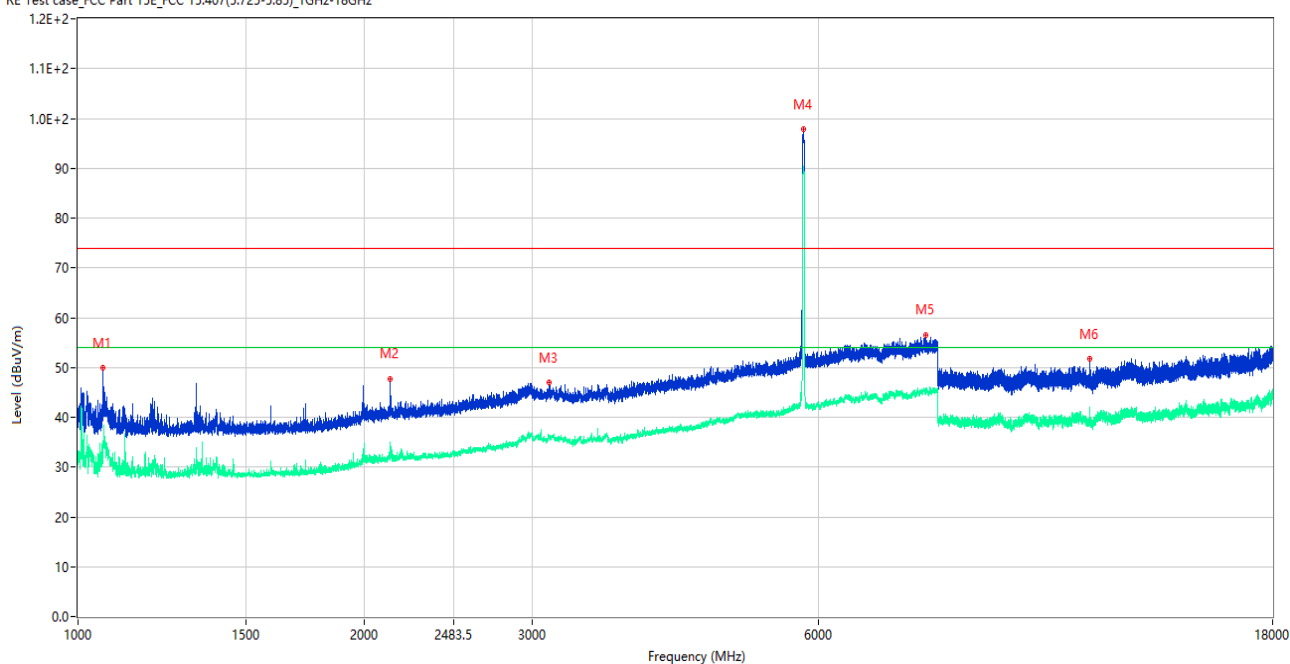
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.000	51.95	-15.53	74.0	22.05	Peak	181.00	150	Vertical	Pass
1**	1332.000	34.04	-15.53	54.0	19.96	AV	181.00	150	Vertical	Pass
2	2131.000	54.59	-11.99	74.0	19.41	Peak	172.00	150	Vertical	Pass
2**	2131.000	37.18	-11.99	54.0	16.82	AV	172.00	150	Vertical	Pass
3	4697.500	50.53	-2.26	74.0	23.47	Peak	51.00	150	Vertical	Pass
3**	4697.500	39.84	-2.26	54.0	14.16	AV	51.00	150	Vertical	Pass
4	5780.500	102.15	0.37	74.0	-28.15	Peak	291.00	150	Vertical	N/A
4**	5780.500	92.47	0.37	54.0	-38.47	AV	291.00	150	Vertical	N/A
5	7794.000	56.48	3.91	74.0	17.52	Peak	8.00	150	Vertical	Pass
5**	7794.000	45.70	3.91	54.0	8.30	AV	8.00	150	Vertical	Pass
6	12811.950	51.50	-0.12	74.0	22.50	Peak	0.00	150	Vertical	Pass
6**	12811.950	40.84	-0.12	54.0	13.16	AV	0.00	150	Vertical	Pass

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

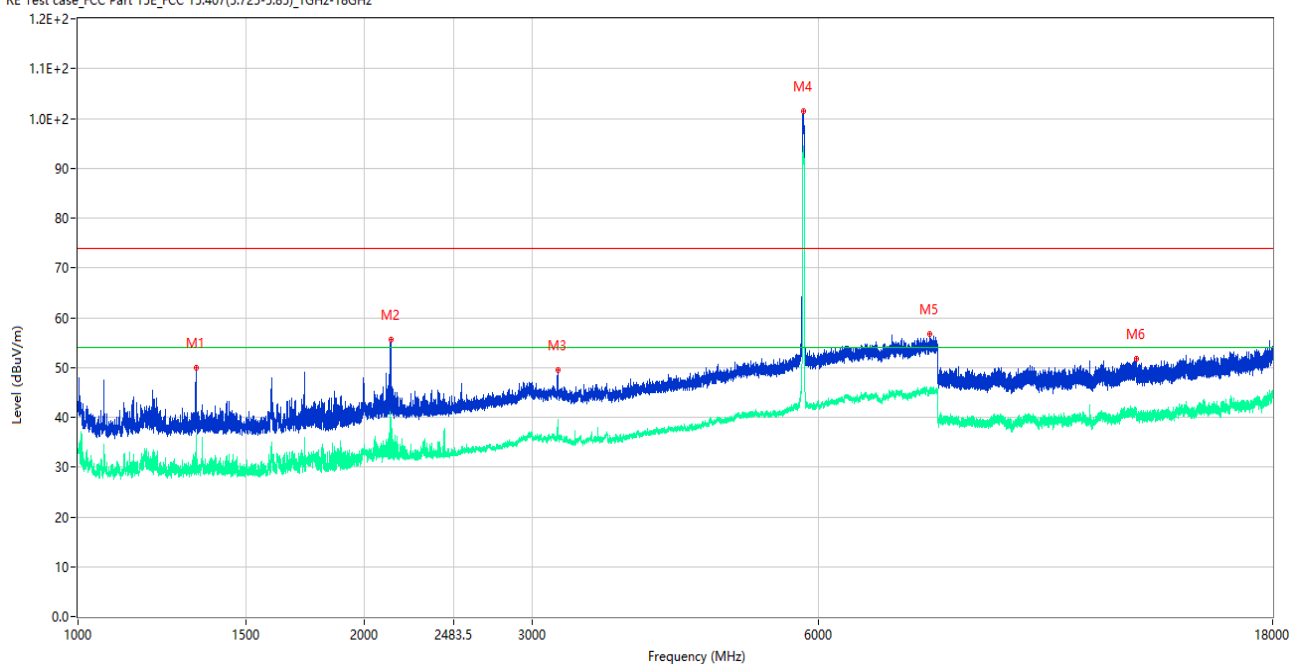
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1061.500	49.87	-15.57	74.0	24.13	Peak	137.00	150	Horizontal	Pass
1**	1061.500	32.17	-15.57	54.0	21.83	AV	137.00	150	Horizontal	Pass
2	2127.750	47.78	-12.13	74.0	26.22	Peak	243.00	150	Horizontal	Pass
2**	2127.750	33.34	-12.13	54.0	20.66	AV	243.00	150	Horizontal	Pass
3	3125.000	47.08	-6.04	74.0	26.92	Peak	360.00	150	Horizontal	Pass
3**	3125.000	35.91	-6.04	54.0	18.09	AV	360.00	150	Horizontal	Pass
4	5786.500	97.92	0.39	74.0	-23.92	Peak	80.00	150	Horizontal	N/A
4**	5786.500	90.44	0.39	54.0	-36.44	AV	80.00	150	Horizontal	N/A
5	7782.500	56.60	3.40	74.0	17.40	Peak	210.00	150	Horizontal	Pass
5**	7782.500	45.01	3.40	54.0	8.99	AV	210.00	150	Horizontal	Pass
6	11570.575	51.81	-1.11	74.0	22.19	Peak	338.00	150	Horizontal	Pass
6**	11570.575	41.93	-1.11	54.0	12.07	AV	338.00	150	Horizontal	Pass

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

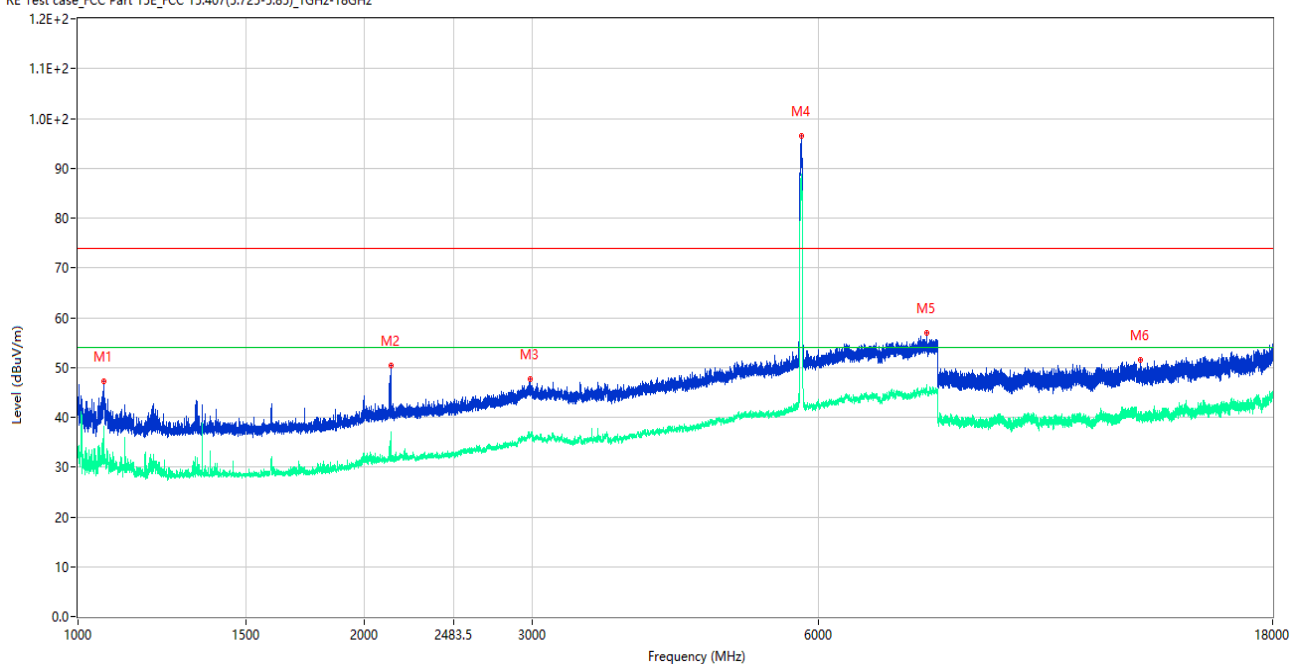
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.750	49.87	-15.52	74.0	24.13	Peak	192.00	150	Vertical	Pass
1**	1329.750	28.44	-15.52	54.0	25.56	AV	192.00	150	Vertical	Pass
2	2132.750	55.66	-11.91	74.0	18.34	Peak	192.00	150	Vertical	Pass
2**	2132.750	33.47	-11.91	54.0	20.53	AV	192.00	150	Vertical	Pass
3	3191.000	49.49	-6.54	74.0	24.51	Peak	158.00	150	Vertical	Pass
3**	3191.000	37.32	-6.54	54.0	16.68	AV	158.00	150	Vertical	Pass
4	5783.500	101.48	0.33	74.0	-27.48	Peak	297.00	150	Vertical	N/A
4**	5783.500	93.94	0.33	54.0	-39.94	AV	297.00	150	Vertical	N/A
5	7845.000	56.76	3.58	74.0	17.24	Peak	360.00	150	Vertical	Pass
5**	7845.000	44.94	3.58	54.0	9.06	AV	360.00	150	Vertical	Pass
6	12932.700	51.68	0.63	74.0	22.32	Peak	360.00	150	Vertical	Pass
6**	12932.700	41.32	0.63	54.0	12.68	AV	360.00	150	Vertical	Pass

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

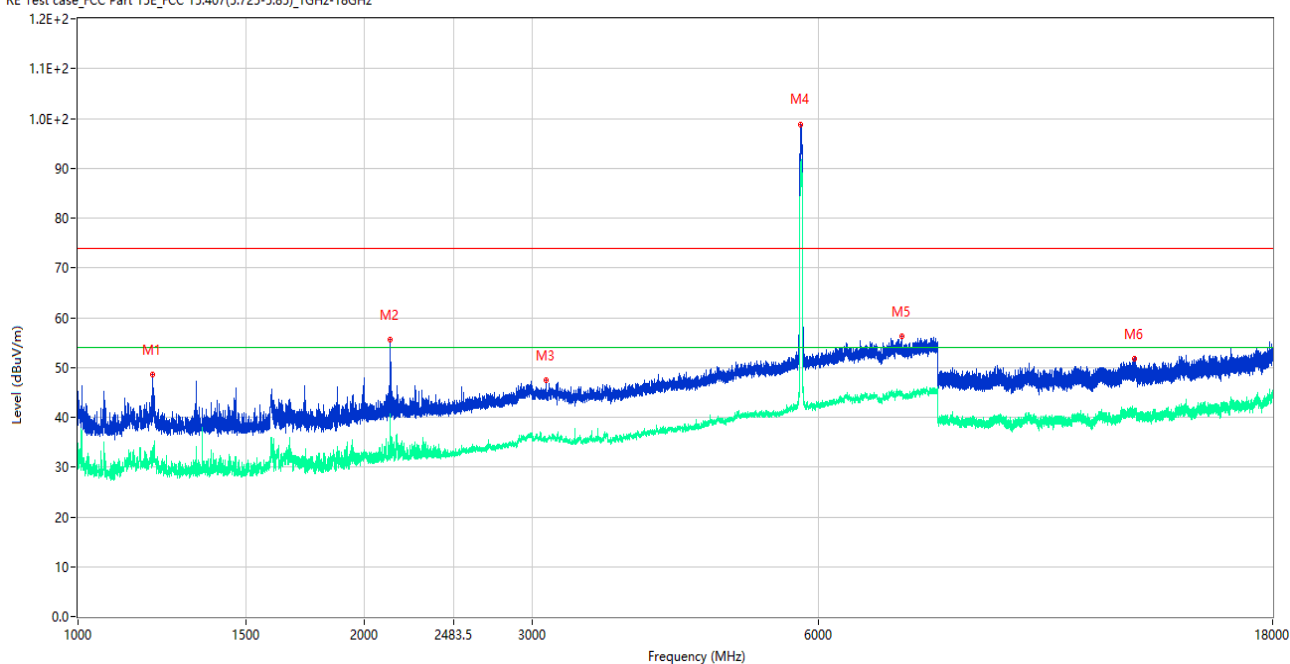
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.750	47.16	-15.57	74.0	26.84	Peak	150.00	150	Horizontal	Pass
1**	1064.750	36.61	-15.57	54.0	17.39	AV	150.00	150	Horizontal	Pass
2	2132.750	50.42	-11.91	74.0	23.58	Peak	234.00	150	Horizontal	Pass
2**	2132.750	31.63	-11.91	54.0	22.37	AV	234.00	150	Horizontal	Pass
3	2988.750	47.75	-5.98	74.0	26.25	Peak	0.00	150	Horizontal	Pass
3**	2988.750	36.08	-5.98	54.0	17.92	AV	0.00	150	Horizontal	Pass
4	5756.500	96.42	0.05	74.0	-22.42	Peak	280.00	150	Horizontal	N/A
4**	5756.500	87.28	0.05	54.0	-33.28	AV	280.00	150	Horizontal	N/A
5	7796.000	56.87	3.92	74.0	17.13	Peak	309.00	150	Horizontal	Pass
5**	7796.000	45.74	3.92	54.0	8.26	AV	309.00	150	Horizontal	Pass
6	13080.487	51.48	0.54	74.0	22.52	Peak	209.00	150	Horizontal	Pass
6**	13080.487	39.91	0.54	54.0	14.09	AV	209.00	150	Horizontal	Pass

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

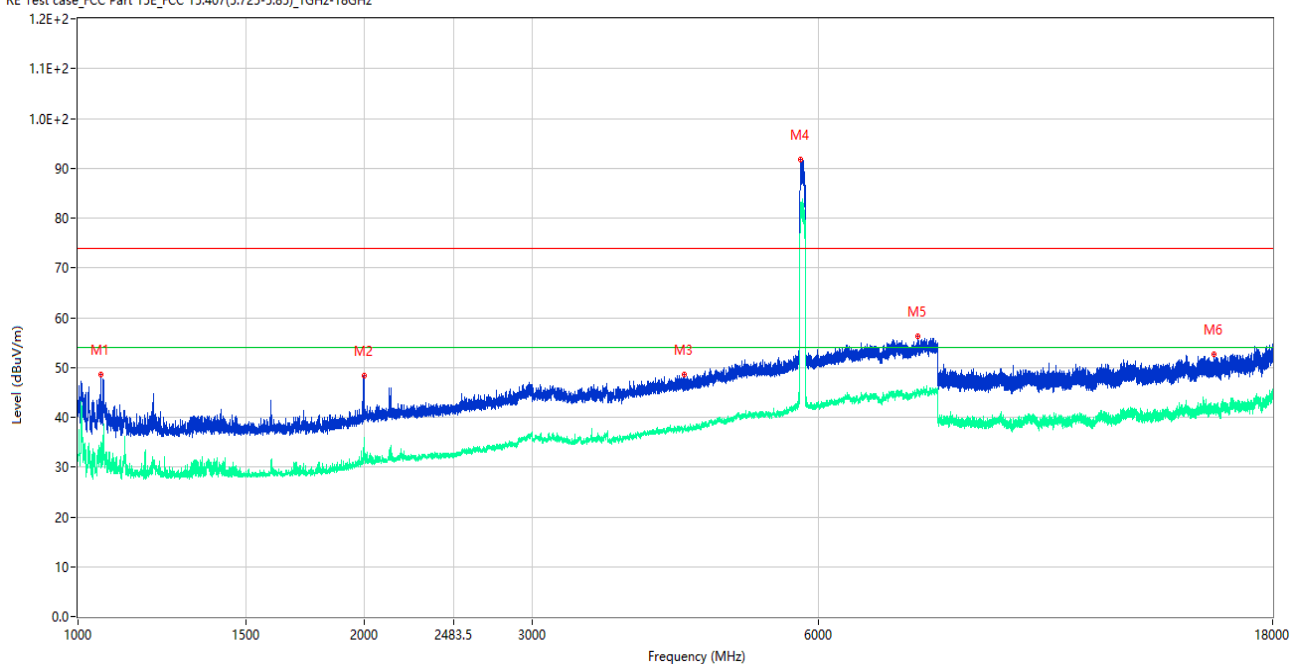
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.750	48.51	-15.26	74.0	25.49	Peak	82.00	150	Vertical	Pass
1**	1196.750	30.36	-15.26	54.0	23.64	AV	82.00	150	Vertical	Pass
2	2129.500	55.52	-12.06	74.0	18.48	Peak	179.00	150	Vertical	Pass
2**	2129.500	33.24	-12.06	54.0	20.76	AV	179.00	150	Vertical	Pass
3	3101.000	47.38	-6.11	74.0	26.62	Peak	259.00	150	Vertical	Pass
3**	3101.000	35.39	-6.11	54.0	18.61	AV	259.00	150	Vertical	Pass
4	5748.500	98.87	-0.03	74.0	-24.87	Peak	300.00	150	Vertical	N/A
4**	5748.500	91.08	-0.03	54.0	-37.08	AV	300.00	150	Vertical	N/A
5	7340.500	56.16	3.22	74.0	17.84	Peak	268.00	150	Vertical	Pass
5**	7340.500	44.76	3.22	54.0	9.24	AV	268.00	150	Vertical	Pass
6	12899.100	51.64	0.13	74.0	22.36	Peak	242.00	150	Vertical	Pass
6**	12899.100	41.13	0.13	54.0	12.87	AV	242.00	150	Vertical	Pass

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

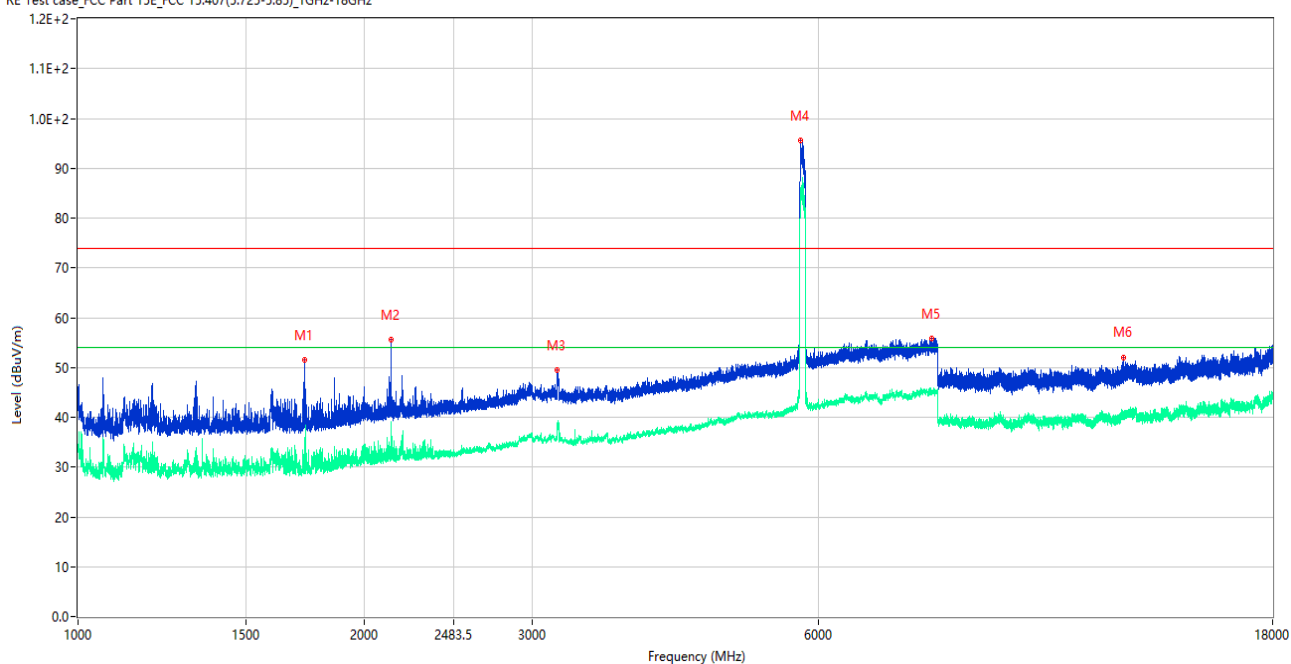
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1056.750	48.58	-15.62	74.0	25.42	Peak	121.00	150	Horizontal	Pass
1**	1056.750	32.56	-15.62	54.0	21.44	AV	121.00	150	Horizontal	Pass
2	1999.250	48.33	-13.17	74.0	25.67	Peak	215.00	150	Horizontal	Pass
2**	1999.250	32.35	-13.17	54.0	21.65	AV	215.00	150	Horizontal	Pass
3	4332.000	48.65	-2.54	74.0	25.35	Peak	1.00	150	Horizontal	Pass
3**	4332.000	37.95	-2.54	54.0	16.05	AV	1.00	150	Horizontal	Pass
4	5768.500	91.83	-0.03	74.0	-17.83	Peak	280.00	150	Horizontal	N/A
4**	5768.500	80.81	-0.03	54.0	-26.81	AV	280.00	150	Horizontal	N/A
5	7635.500	56.20	2.98	74.0	17.80	Peak	271.00	150	Horizontal	Pass
5**	7635.500	45.22	2.98	54.0	8.78	AV	271.00	150	Horizontal	Pass
6	15606.000	52.62	0.72	74.0	21.38	Peak	360.00	150	Horizontal	Pass
6**	15606.000	41.02	0.72	54.0	12.98	AV	360.00	150	Horizontal	Pass

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

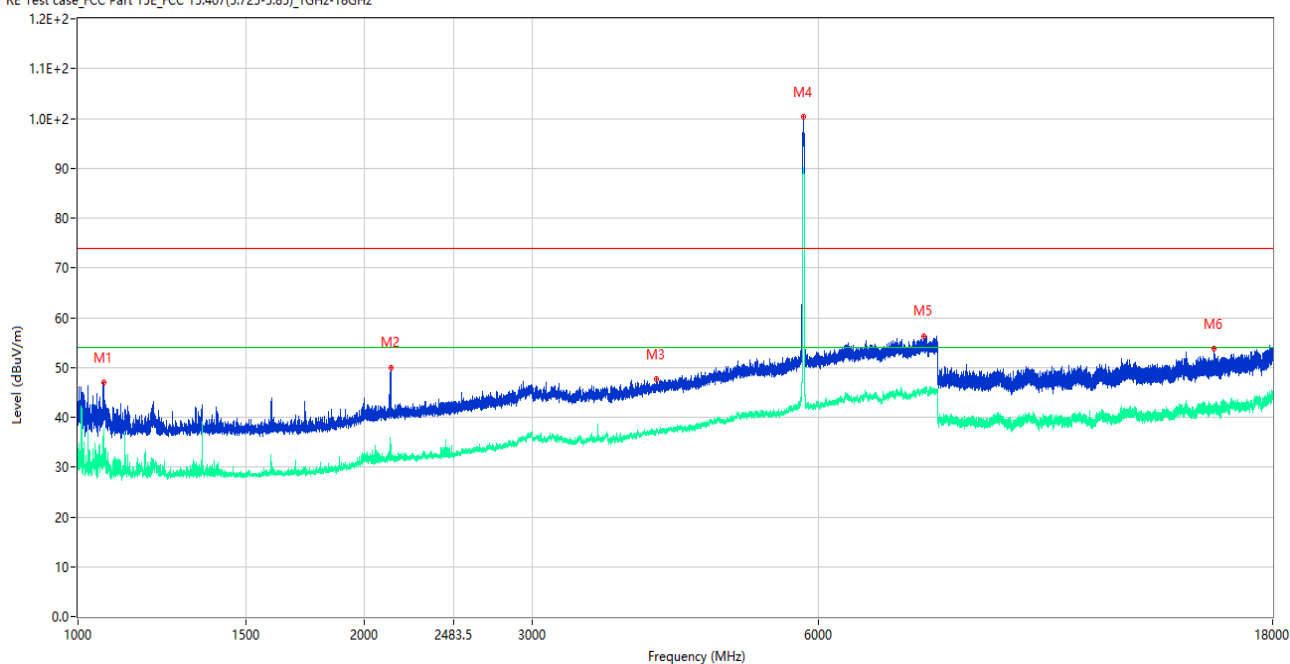
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1732.250	51.51	-15.36	74.0	22.49	Peak	154.00	150	Vertical	Pass
1**	1732.250	30.22	-15.36	54.0	23.78	AV	154.00	150	Vertical	Pass
2	2132.000	55.53	-11.97	74.0	18.47	Peak	218.00	150	Vertical	Pass
2**	2132.000	34.74	-11.97	54.0	19.26	AV	218.00	150	Vertical	Pass
3	3190.000	49.53	-6.52	74.0	24.47	Peak	169.00	150	Vertical	Pass
3**	3190.000	37.98	-6.52	54.0	16.02	AV	169.00	150	Vertical	Pass
4	5768.000	95.65	-0.05	74.0	-21.65	Peak	300.00	150	Vertical	N/A
4**	5768.000	82.74	-0.05	54.0	-28.74	AV	300.00	150	Vertical	N/A
5	7896.500	55.87	3.52	74.0	18.13	Peak	218.00	150	Vertical	Pass
5**	7896.500	45.36	3.52	54.0	8.64	AV	218.00	150	Vertical	Pass
6	12550.025	52.07	-0.28	74.0	21.93	Peak	172.00	150	Vertical	Pass
6**	12550.025	40.54	-0.28	54.0	13.46	AV	172.00	150	Vertical	Pass

11ax20 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

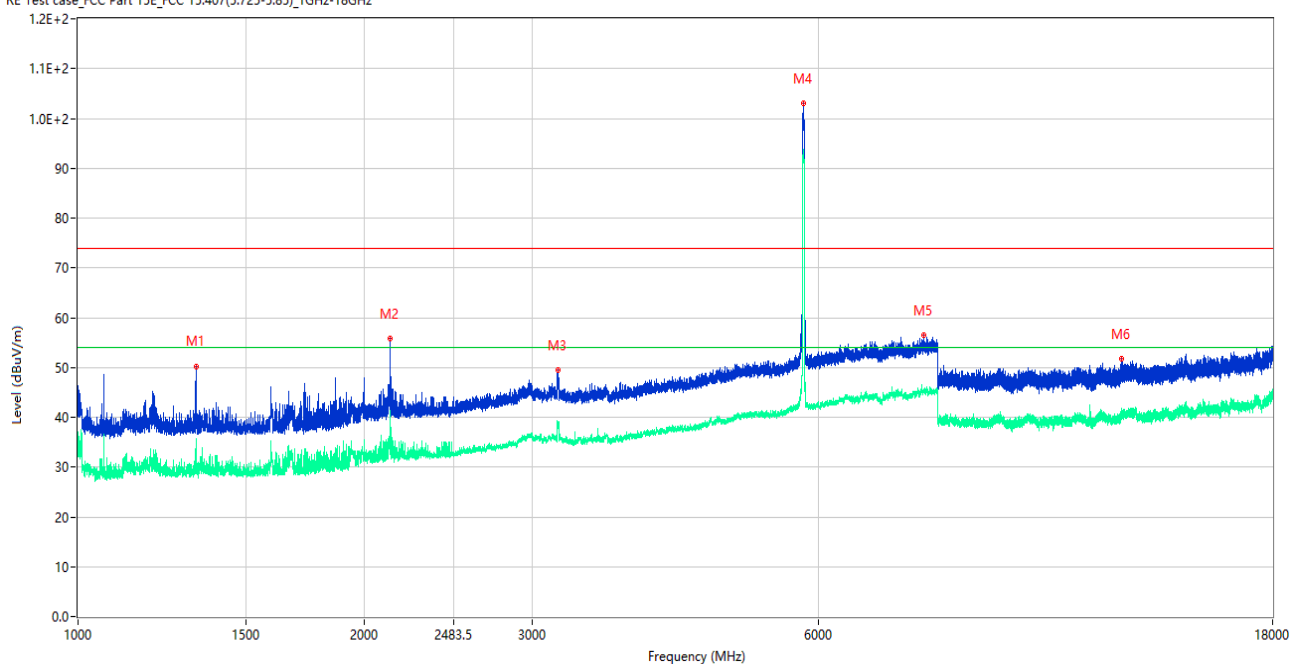
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.250	47.03	-15.57	74.0	26.97	Peak	106.00	150	Horizontal	Pass
1**	1065.250	30.21	-15.57	54.0	23.79	AV	106.00	150	Horizontal	Pass
2	2132.000	50.03	-11.97	74.0	23.97	Peak	125.00	150	Horizontal	Pass
2**	2132.000	32.49	-11.97	54.0	21.51	AV	125.00	150	Horizontal	Pass
3	4054.500	47.67	-3.01	74.0	26.33	Peak	18.00	150	Horizontal	Pass
3**	4054.500	37.25	-3.01	54.0	16.75	AV	18.00	150	Horizontal	Pass
4	5786.000	100.36	0.38	74.0	-26.36	Peak	99.00	150	Horizontal	N/A
4**	5786.000	89.99	0.38	54.0	-35.99	AV	99.00	150	Horizontal	N/A
5	7744.500	56.38	3.47	74.0	17.62	Peak	77.00	150	Horizontal	Pass
5**	7744.500	45.88	3.47	54.0	8.12	AV	77.00	150	Horizontal	Pass
6	15623.850	53.76	1.44	74.0	20.24	Peak	277.00	150	Horizontal	Pass
6**	15623.850	42.06	1.44	54.0	11.94	AV	277.00	150	Horizontal	Pass

11ax20 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

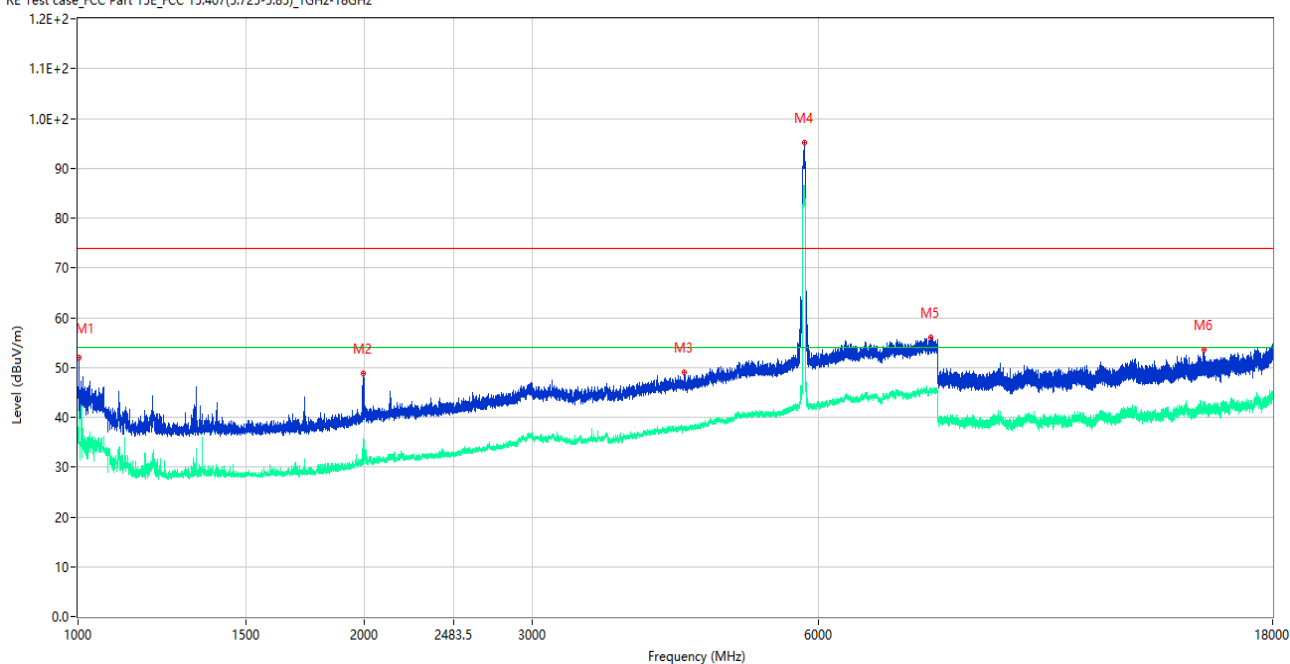
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.500	50.27	-15.52	74.0	23.73	Peak	72.00	150	Vertical	Pass
1**	1331.500	34.00	-15.52	54.0	20.00	AV	72.00	150	Vertical	Pass
2	2127.000	55.78	-12.15	74.0	18.22	Peak	180.00	150	Vertical	Pass
2**	2127.000	33.17	-12.15	54.0	20.83	AV	180.00	150	Vertical	Pass
3	3198.000	49.48	-6.69	74.0	24.52	Peak	168.00	150	Vertical	Pass
3**	3198.000	37.65	-6.69	54.0	16.35	AV	168.00	150	Vertical	Pass
4	5785.500	103.02	0.37	74.0	-29.02	Peak	301.00	150	Vertical	N/A
4**	5785.500	92.64	0.37	54.0	-38.64	AV	301.00	150	Vertical	Fail
5	7734.500	56.55	3.22	74.0	17.45	Peak	80.00	150	Vertical	Pass
5**	7734.500	45.57	3.22	54.0	8.43	AV	80.00	150	Vertical	Pass
6	12479.963	51.65	0.01	74.0	22.35	Peak	242.00	150	Vertical	Pass
6**	12479.963	40.15	0.01	54.0	13.85	AV	242.00	150	Vertical	Pass

11ax40 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

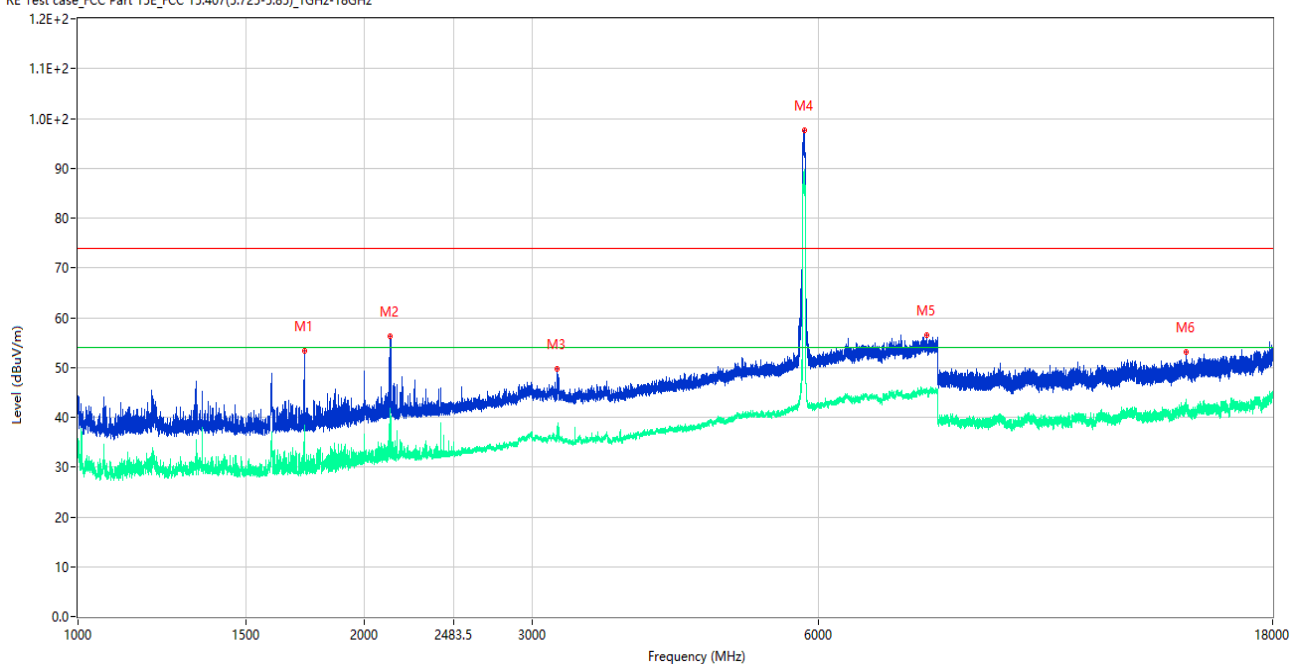
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1002.000	51.87	-15.26	74.0	22.13	Peak	136.00	150	Horizontal	Pass
1**	1002.000	37.50	-15.26	54.0	16.50	AV	136.00	150	Horizontal	Pass
2	1995.750	48.86	-13.33	74.0	25.14	Peak	232.00	150	Horizontal	Pass
2**	1995.750	31.33	-13.33	54.0	22.67	AV	232.00	150	Horizontal	Pass
3	4331.500	49.07	-2.57	74.0	24.93	Peak	65.00	150	Horizontal	Pass
3**	4331.500	37.77	-2.57	54.0	16.23	AV	65.00	150	Horizontal	Pass
4	5804.500	95.11	0.34	74.0	-21.11	Peak	96.00	150	Horizontal	N/A
4**	5804.500	83.45	0.34	54.0	-29.45	AV	96.00	150	Horizontal	N/A
5	7861.500	56.13	3.88	74.0	17.87	Peak	218.00	150	Horizontal	Pass
5**	7861.500	45.22	3.88	54.0	8.78	AV	218.00	150	Horizontal	Pass
6	15261.075	53.48	2.20	74.0	20.52	Peak	360.00	150	Horizontal	Pass
6**	15261.075	42.70	2.20	54.0	11.30	AV	360.00	150	Horizontal	Pass

11ax40 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

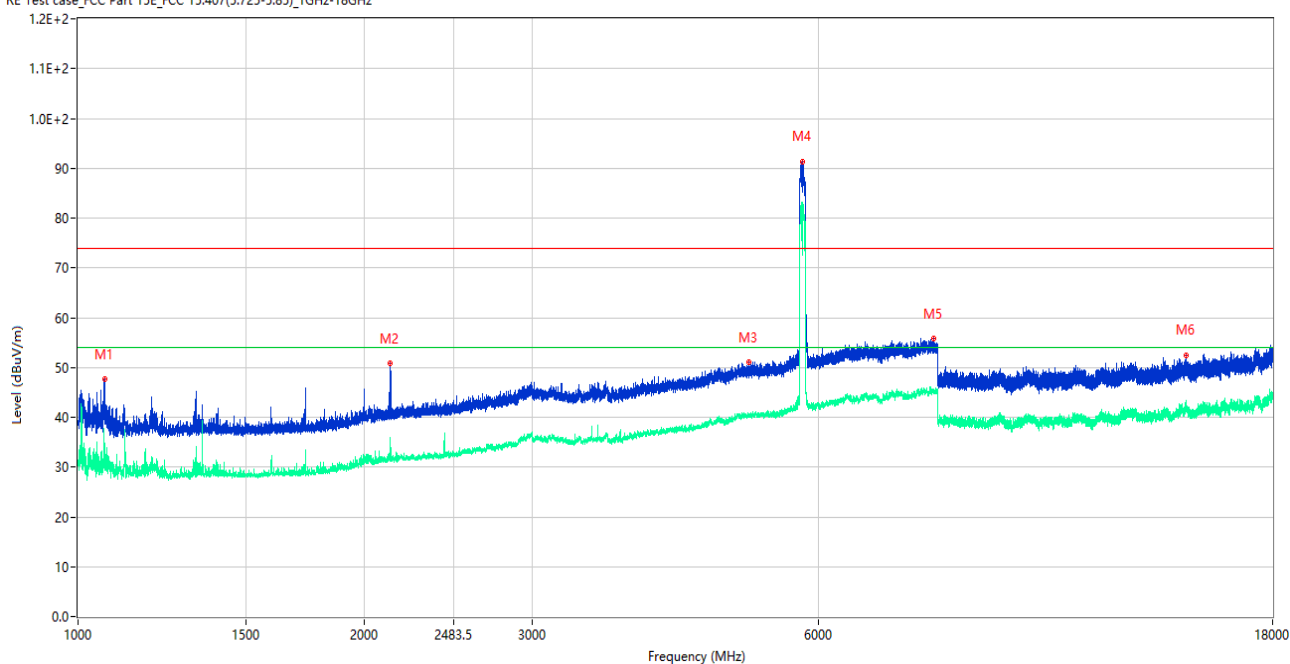
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1731.000	53.29	-15.35	74.0	20.71	Peak	176.00	150	Vertical	Pass
1**	1731.000	29.54	-15.35	54.0	24.46	AV	176.00	150	Vertical	Pass
2	2127.500	56.34	-12.14	74.0	17.66	Peak	196.00	150	Vertical	Pass
2**	2127.500	32.93	-12.14	54.0	21.07	AV	196.00	150	Vertical	Pass
3	3187.500	49.74	-6.50	74.0	24.26	Peak	168.00	150	Vertical	Pass
3**	3187.500	38.05	-6.50	54.0	15.95	AV	168.00	150	Vertical	Pass
4	5793.000	97.62	0.33	74.0	-23.62	Peak	300.00	150	Vertical	N/A
4**	5793.000	87.76	0.33	54.0	-33.76	AV	300.00	150	Vertical	N/A
5	7787.000	56.48	3.62	74.0	17.52	Peak	249.00	150	Vertical	Pass
5**	7787.000	45.51	3.62	54.0	8.49	AV	249.00	150	Vertical	Pass
6	14597.737	53.05	1.13	74.0	20.95	Peak	206.00	150	Vertical	Pass
6**	14597.737	42.59	1.13	54.0	11.41	AV	206.00	150	Vertical	Pass

11ax80 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

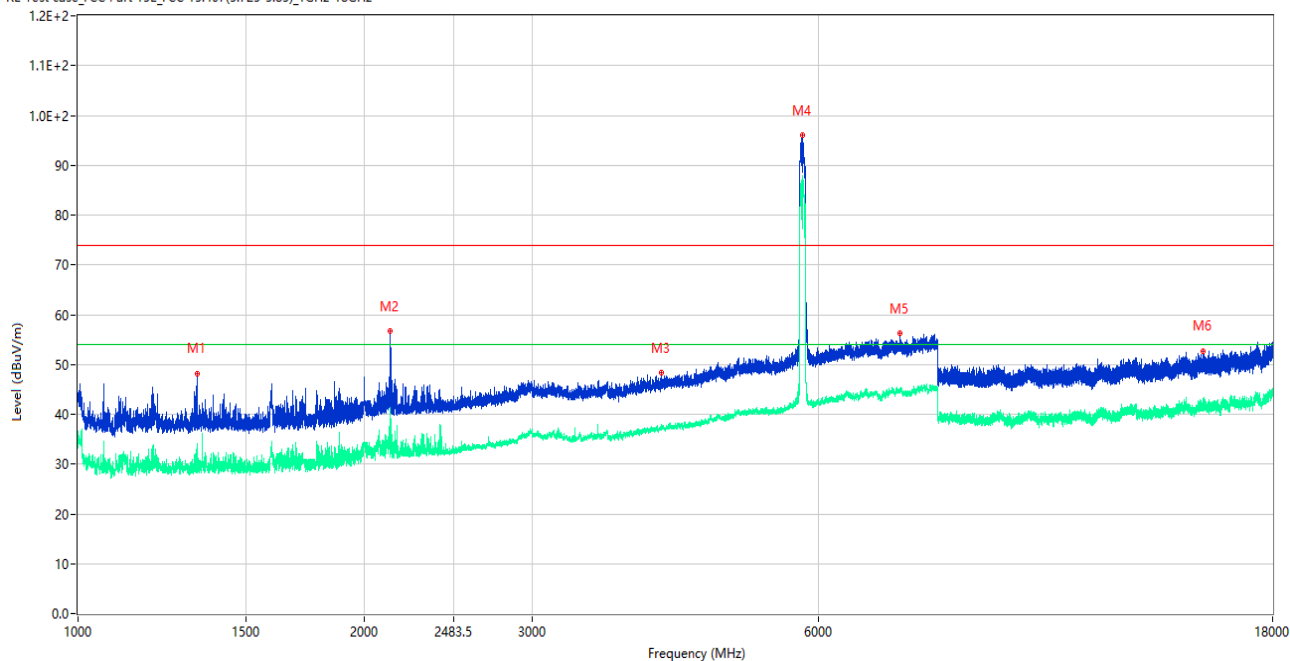
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.000	47.59	-15.57	74.0	26.41	Peak	141.00	150	Horizontal	Pass
1**	1066.000	31.54	-15.57	54.0	22.46	AV	141.00	150	Horizontal	Pass
2	2129.500	50.76	-12.06	74.0	23.24	Peak	131.00	150	Horizontal	Pass
2**	2129.500	32.71	-12.06	54.0	21.29	AV	131.00	150	Horizontal	Pass
3	5066.000	51.14	-0.98	74.0	22.86	Peak	119.00	150	Horizontal	Pass
3**	5066.000	40.23	-0.98	54.0	13.77	AV	119.00	150	Horizontal	Pass
4	5770.500	91.41	0.42	74.0	-17.41	Peak	98.00	150	Horizontal	N/A
4**	5770.500	83.28	0.42	54.0	-29.28	AV	98.00	150	Horizontal	N/A
5	7920.000	55.72	3.69	74.0	18.28	Peak	340.00	150	Horizontal	Pass
5**	7920.000	45.60	3.69	54.0	8.40	AV	340.00	150	Horizontal	Pass
6	14594.588	52.53	1.07	74.0	21.47	Peak	242.00	150	Horizontal	Pass
6**	14594.588	42.67	1.07	54.0	11.33	AV	242.00	150	Horizontal	Pass

11ax80 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz

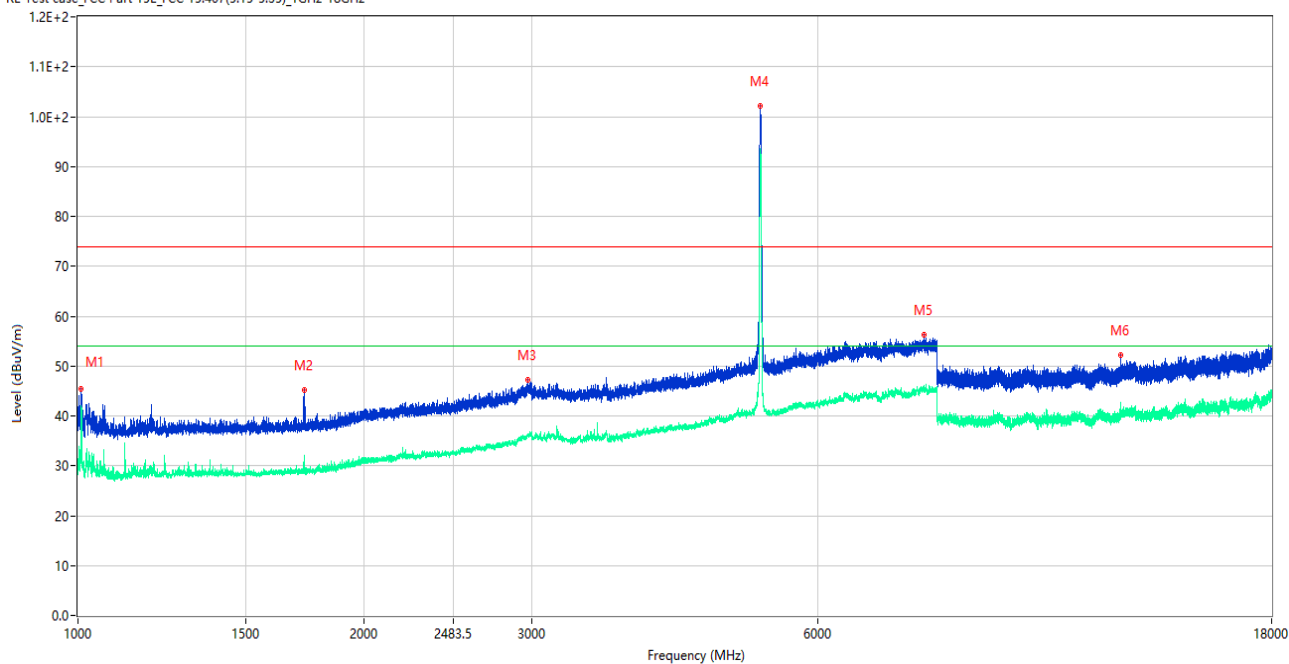


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.250	48.24	-15.55	74.0	25.76	Peak	197.00	150	Vertical	Pass
1**	1333.250	34.17	-15.55	54.0	19.83	AV	197.00	150	Vertical	Pass
2	2127.750	56.79	-12.13	74.0	17.21	Peak	178.00	150	Vertical	Pass
2**	2127.750	33.85	-12.13	54.0	20.15	AV	178.00	150	Vertical	Pass
3	4106.000	48.40	-3.26	74.0	25.60	Peak	29.00	150	Vertical	Pass
3**	4106.000	37.24	-3.26	54.0	16.76	AV	29.00	150	Vertical	Pass
4	5770.500	95.95	0.42	74.0	-21.95	Peak	301.00	150	Vertical	N/A
4**	5770.500	86.82	0.42	54.0	-32.82	AV	301.00	150	Vertical	N/A
5	7303.000	56.21	2.76	74.0	17.79	Peak	92.00	150	Vertical	Pass
5**	7303.000	45.02	2.76	54.0	8.98	AV	92.00	150	Vertical	Pass
6	15215.400	52.74	1.63	74.0	21.26	Peak	245.00	150	Vertical	Pass
6**	15215.400	42.51	1.63	54.0	11.49	AV	245.00	150	Vertical	Pass

Aux. Antenna:

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

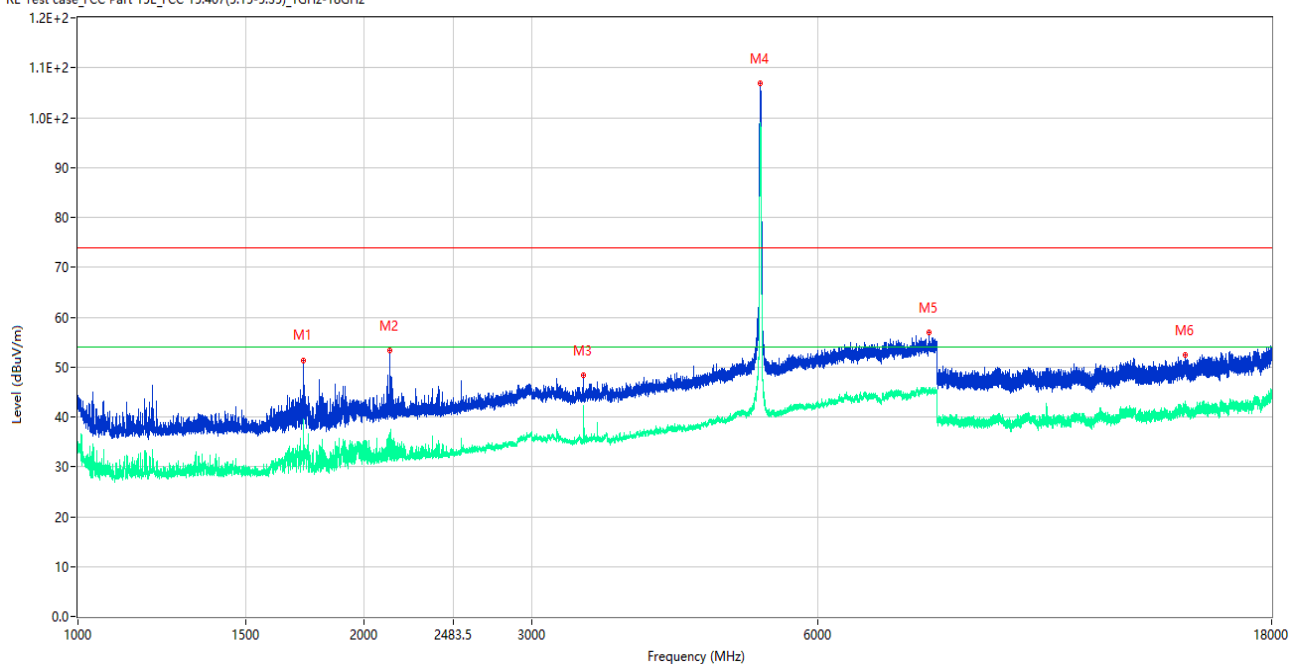
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.000	45.33	-15.30	74.0	28.67	Peak	87.00	150	Horizontal	Pass
1**	1008.000	41.38	-15.30	54.0	12.62	AV	87.00	150	Horizontal	Pass
2	1731.750	45.20	-15.35	74.0	28.80	Peak	349.00	150	Horizontal	Pass
2**	1731.750	29.46	-15.35	54.0	24.54	AV	349.00	150	Horizontal	Pass
3	2970.000	47.27	-6.15	74.0	26.73	Peak	133.00	150	Horizontal	Pass
3**	2970.000	36.10	-6.15	54.0	17.90	AV	133.00	150	Horizontal	Pass
4	5215.000	102.15	-0.94	74.0	-28.15	Peak	111.00	150	Horizontal	N/A
4**	5215.000	92.73	-0.94	54.0	-38.73	AV	111.00	150	Horizontal	N/A
5	7767.000	56.29	3.28	74.0	17.71	Peak	360.00	150	Horizontal	Pass
5**	7767.000	44.74	3.28	54.0	9.26	AV	360.00	150	Horizontal	Pass
6	12495.162	52.09	0.11	74.0	21.91	Peak	196.00	150	Horizontal	Pass
6**	12495.162	41.57	0.11	54.0	12.43	AV	196.00	150	Horizontal	Pass

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

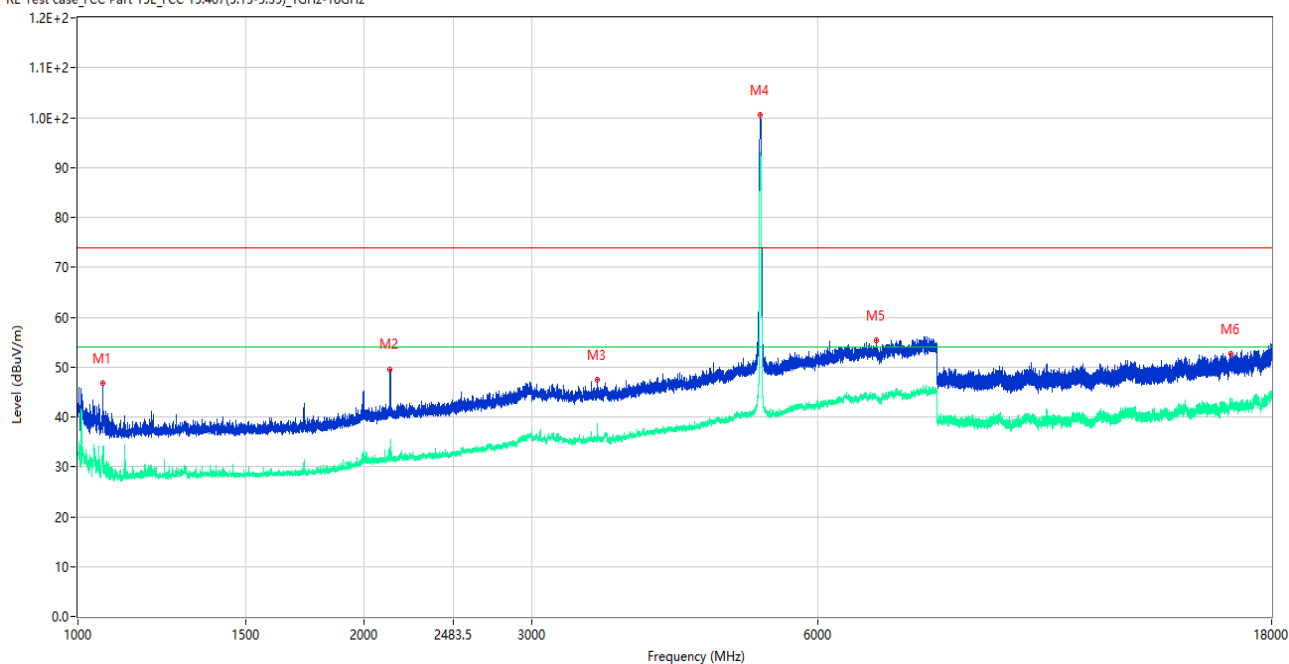
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1726.000	51.41	-15.15	74.0	22.59	Peak	119.00	150	Vertical	Pass
1**	1726.000	30.28	-15.15	54.0	23.72	AV	119.00	150	Vertical	Pass
2	2130.250	53.39	-12.02	74.0	20.61	Peak	106.00	150	Vertical	Pass
2**	2130.250	32.49	-12.02	54.0	21.51	AV	106.00	150	Vertical	Pass
3	3403.500	48.26	-6.23	74.0	25.74	Peak	249.00	150	Vertical	Pass
3**	3403.500	40.17	-6.23	54.0	13.83	AV	249.00	150	Vertical	Pass
4	5215.000	106.97	-0.94	74.0	-32.97	Peak	62.00	150	Vertical	N/A
4**	5215.000	97.34	-0.94	54.0	-43.34	AV	62.00	150	Vertical	N/A
5	7856.500	57.01	3.78	74.0	16.99	Peak	271.00	150	Vertical	Pass
5**	7856.500	45.40	3.78	54.0	8.60	AV	271.00	150	Vertical	Pass
6	14592.224	52.36	1.43	74.0	21.64	Peak	243.00	150	Vertical	Pass
6**	14592.224	42.89	1.43	54.0	11.11	AV	243.00	150	Vertical	Pass

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

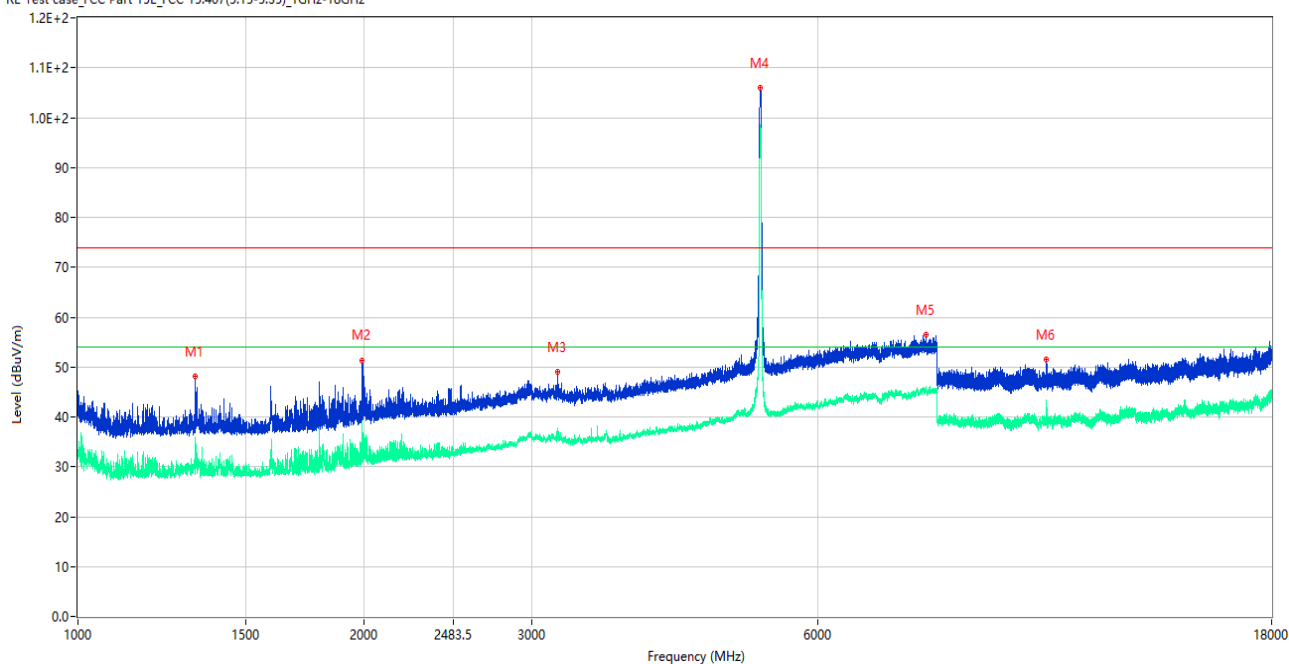
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1061.500	46.80	-15.57	74.0	27.20	Peak	152.00	150	Horizontal	Pass
1**	1061.500	30.65	-15.57	54.0	23.35	AV	152.00	150	Horizontal	Pass
2	2130.250	49.58	-12.02	74.0	24.42	Peak	179.00	150	Horizontal	Pass
2**	2130.250	31.67	-12.02	54.0	22.33	AV	179.00	150	Horizontal	Pass
3	3514.000	47.50	-5.66	74.0	26.50	Peak	360.00	150	Horizontal	Pass
3**	3514.000	36.06	-5.66	54.0	17.94	AV	360.00	150	Horizontal	Pass
4	5218.500	100.47	-0.91	74.0	-26.47	Peak	109.00	150	Horizontal	N/A
4**	5218.500	93.14	-0.91	54.0	-39.14	AV	109.00	150	Horizontal	N/A
5	6918.500	55.30	1.91	74.0	18.70	Peak	109.00	150	Horizontal	Pass
5**	6918.500	43.95	1.91	54.0	10.05	AV	109.00	150	Horizontal	Pass
6	16294.275	52.67	2.31	74.0	21.33	Peak	346.00	150	Horizontal	Pass
6**	16294.275	42.97	2.31	54.0	11.03	AV	346.00	150	Horizontal	Pass

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

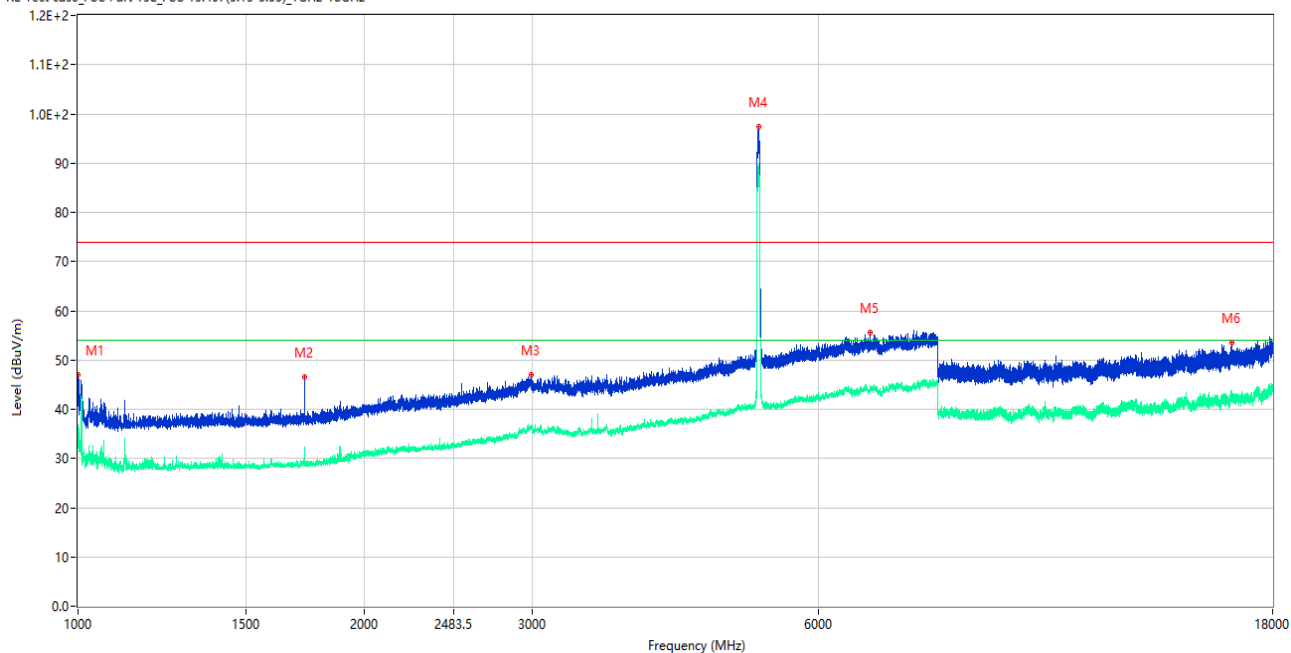
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.000	48.08	-15.51	74.0	25.92	Peak	76.00	150	Vertical	Pass
1**	1329.000	28.67	-15.51	54.0	25.33	AV	76.00	150	Vertical	Pass
2	1991.250	51.40	-13.38	74.0	22.60	Peak	139.00	150	Vertical	Pass
2**	1991.250	32.70	-13.38	54.0	21.30	AV	139.00	150	Vertical	Pass
3	3195.500	48.94	-6.61	74.0	25.06	Peak	92.00	150	Vertical	Pass
3**	3195.500	36.49	-6.61	54.0	17.51	AV	92.00	150	Vertical	Pass
4	5219.000	105.95	-0.89	74.0	-31.95	Peak	71.00	150	Vertical	N/A
4**	5219.000	98.35	-0.89	54.0	-44.35	AV	71.00	150	Vertical	N/A
5	7786.500	56.40	3.58	74.0	17.60	Peak	170.00	150	Vertical	Pass
5**	7786.500	45.16	3.58	54.0	8.84	AV	170.00	150	Vertical	Pass
6	10440.549	51.57	-1.19	74.0	22.43	Peak	76.00	150	Vertical	Pass
6**	10440.549	41.15	-1.19	54.0	12.85	AV	76.00	150	Vertical	Pass

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

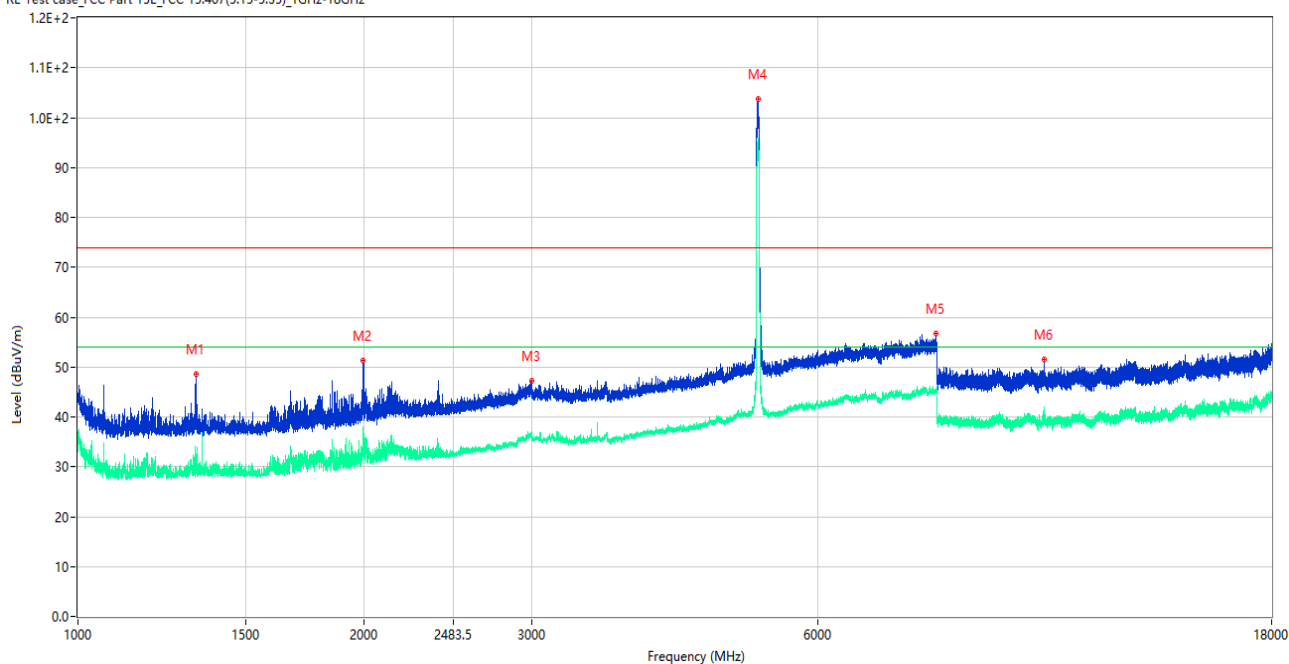
RE Test case_FCC Part 15E_FCC 15.407(5,15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1000.750	47.07	-15.27	74.0	26.93	Peak	124.00	150	Horizontal	Pass
1**	1000.750	35.46	-15.27	54.0	18.54	AV	124.00	150	Horizontal	Pass
2	1731.000	46.52	-15.35	74.0	27.48	Peak	339.00	150	Horizontal	Pass
2**	1731.000	29.95	-15.35	54.0	24.05	AV	339.00	150	Horizontal	Pass
3	2992.250	46.90	-5.86	74.0	27.10	Peak	351.00	150	Horizontal	Pass
3**	2992.250	36.54	-5.86	54.0	17.46	AV	351.00	150	Horizontal	Pass
4	5187.500	97.48	-1.00	74.0	-23.48	Peak	102.00	150	Horizontal	N/A
4**	5187.500	89.11	-1.00	54.0	-35.11	AV	102.00	150	Horizontal	N/A
5	6802.500	55.61	2.12	74.0	18.39	Peak	360.00	150	Horizontal	Pass
5**	6802.500	44.20	2.12	54.0	9.80	AV	360.00	150	Horizontal	Pass
6	16293.750	53.51	2.34	74.0	20.49	Peak	245.00	150	Horizontal	Pass
6**	16293.750	43.01	2.34	54.0	10.99	AV	245.00	150	Horizontal	Pass

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

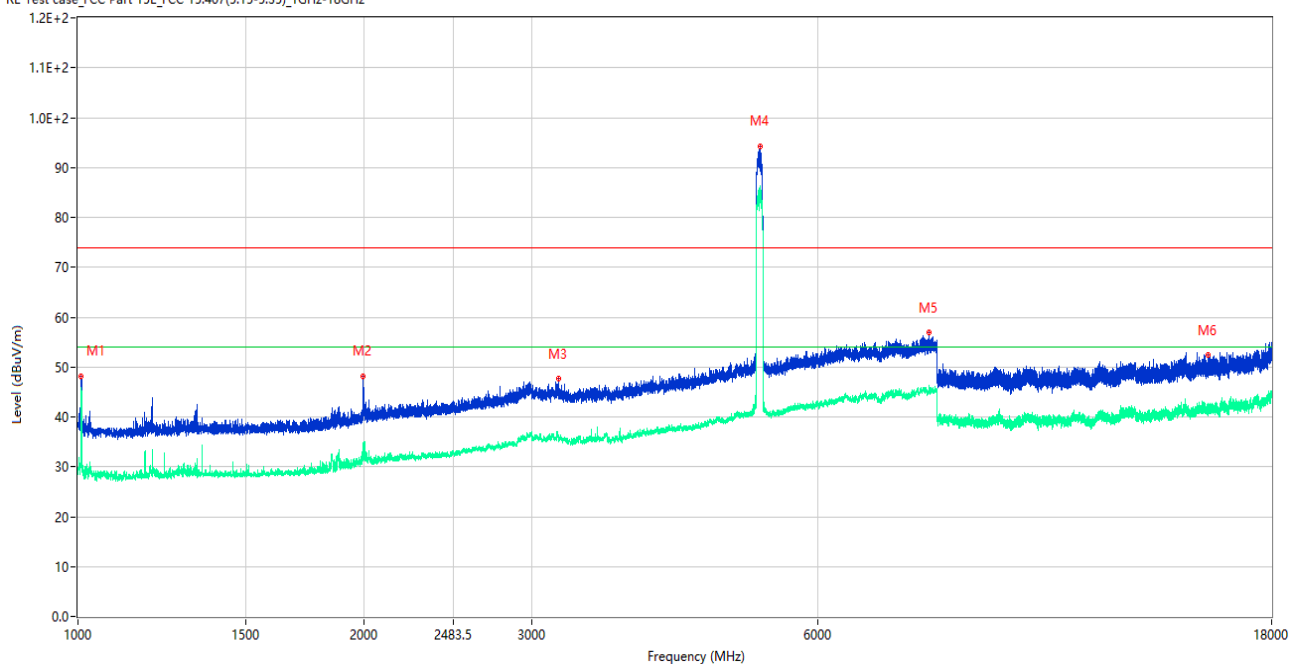
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.750	48.56	-15.55	74.0	25.44	Peak	130.00	150	Vertical	Pass
1**	1332.750	31.32	-15.55	54.0	22.68	AV	130.00	150	Vertical	Pass
2	1994.250	51.25	-13.37	74.0	22.75	Peak	115.00	150	Vertical	Pass
2**	1994.250	32.60	-13.37	54.0	21.40	AV	115.00	150	Vertical	Pass
3	2999.750	47.15	-5.49	74.0	26.85	Peak	139.00	150	Vertical	Pass
3**	2999.750	36.87	-5.49	54.0	17.13	AV	139.00	150	Vertical	Pass
4	5192.500	103.74	-1.10	74.0	-29.74	Peak	69.00	150	Vertical	N/A
4**	5192.500	95.41	-1.10	54.0	-41.41	AV	69.00	150	Vertical	N/A
5	7978.000	56.69	3.67	74.0	17.31	Peak	28.00	150	Vertical	Pass
5**	7978.000	44.83	3.67	54.0	9.17	AV	28.00	150	Vertical	Pass
6	10388.537	51.44	-1.09	74.0	22.56	Peak	75.00	150	Vertical	Pass
6**	10388.537	40.48	-1.09	54.0	13.52	AV	75.00	150	Vertical	Pass

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

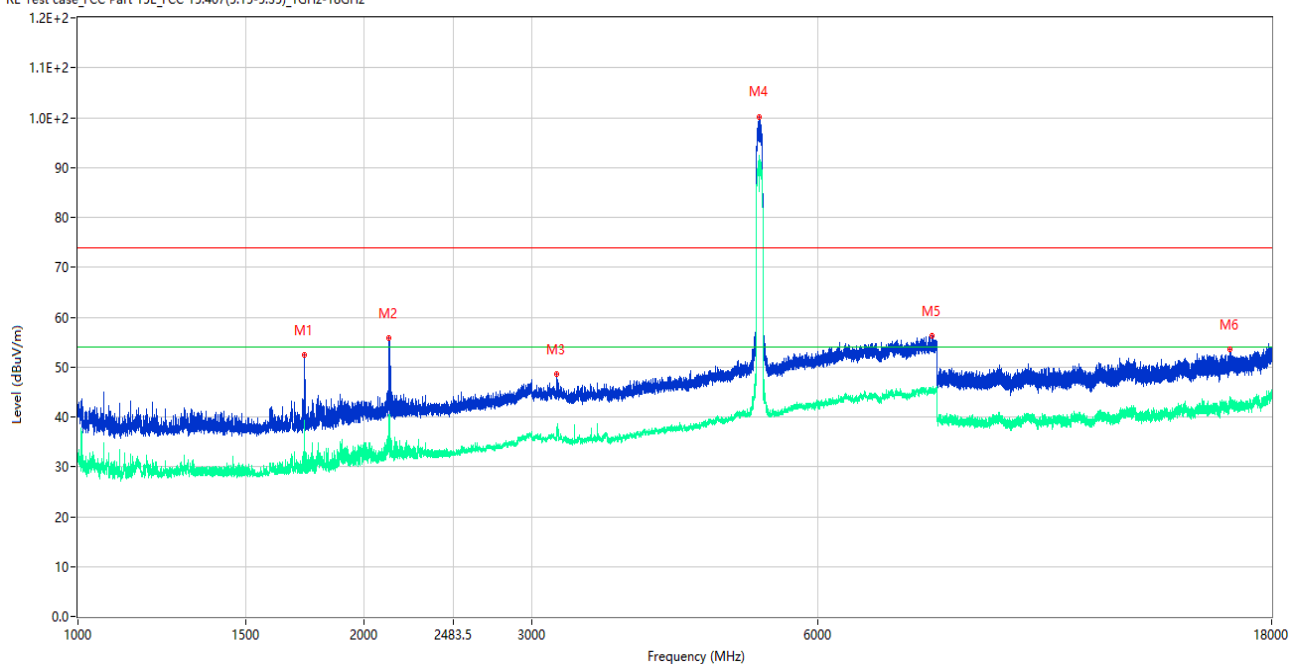
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.000	48.21	-15.30	74.0	25.79	Peak	103.00	150	Horizontal	Pass
1**	1008.000	45.21	-15.30	54.0	8.79	AV	103.00	150	Horizontal	Pass
2	1995.500	48.24	-13.34	74.0	25.76	Peak	166.00	150	Horizontal	Pass
2**	1995.500	34.73	-13.34	54.0	19.27	AV	166.00	150	Horizontal	Pass
3	3205.500	47.70	-6.33	74.0	26.30	Peak	259.00	150	Horizontal	Pass
3**	3205.500	35.23	-6.33	54.0	18.77	AV	259.00	150	Horizontal	Pass
4	5213.500	94.35	-0.95	74.0	-20.35	Peak	100.00	150	Horizontal	N/A
4**	5213.500	86.19	-0.95	54.0	-32.19	AV	100.00	150	Horizontal	N/A
5	7858.000	56.86	3.79	74.0	17.14	Peak	138.00	150	Horizontal	Pass
5**	7858.000	45.82	3.79	54.0	8.18	AV	138.00	150	Horizontal	Pass
6	15445.088	52.43	1.42	74.0	21.57	Peak	346.00	150	Horizontal	Pass
6**	15445.088	42.10	1.42	54.0	11.90	AV	346.00	150	Horizontal	Pass

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

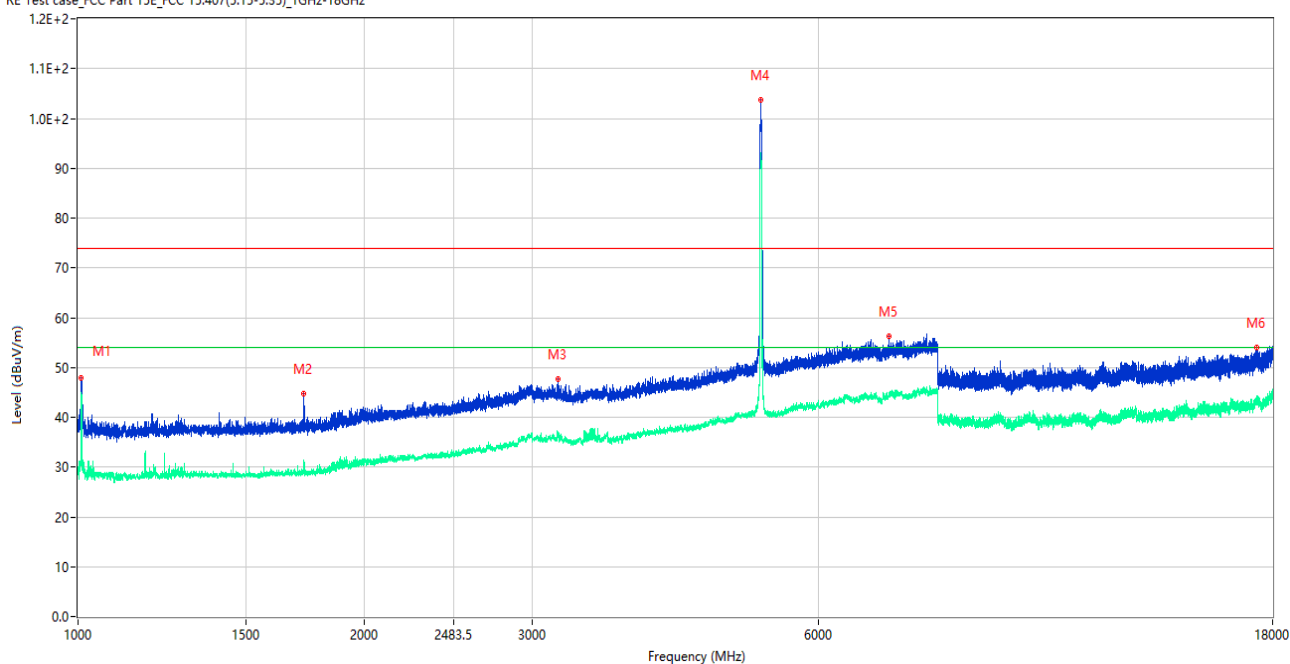
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1730.750	52.46	-15.34	74.0	21.54	Peak	98.00	150	Vertical	Pass
1**	1730.750	28.88	-15.34	54.0	25.12	AV	98.00	150	Vertical	Pass
2	2124.250	55.81	-12.23	74.0	18.19	Peak	133.00	150	Vertical	Pass
2**	2124.250	32.95	-12.23	54.0	21.05	AV	133.00	150	Vertical	Pass
3	3188.500	48.54	-6.52	74.0	25.46	Peak	84.00	150	Vertical	Pass
3**	3188.500	37.52	-6.52	54.0	16.48	AV	84.00	150	Vertical	Pass
4	5207.500	100.22	-0.86	74.0	-26.22	Peak	54.00	150	Vertical	N/A
4**	5207.500	92.38	-0.86	54.0	-38.38	AV	54.00	150	Vertical	N/A
5	7915.000	56.25	3.59	74.0	17.75	Peak	205.00	150	Vertical	Pass
5**	7915.000	45.25	3.59	54.0	8.75	AV	205.00	150	Vertical	Pass
6	16285.350	53.47	2.38	74.0	20.53	Peak	69.00	150	Vertical	Pass
6**	16285.350	43.73	2.38	54.0	10.27	AV	69.00	150	Vertical	Pass

11ax20 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

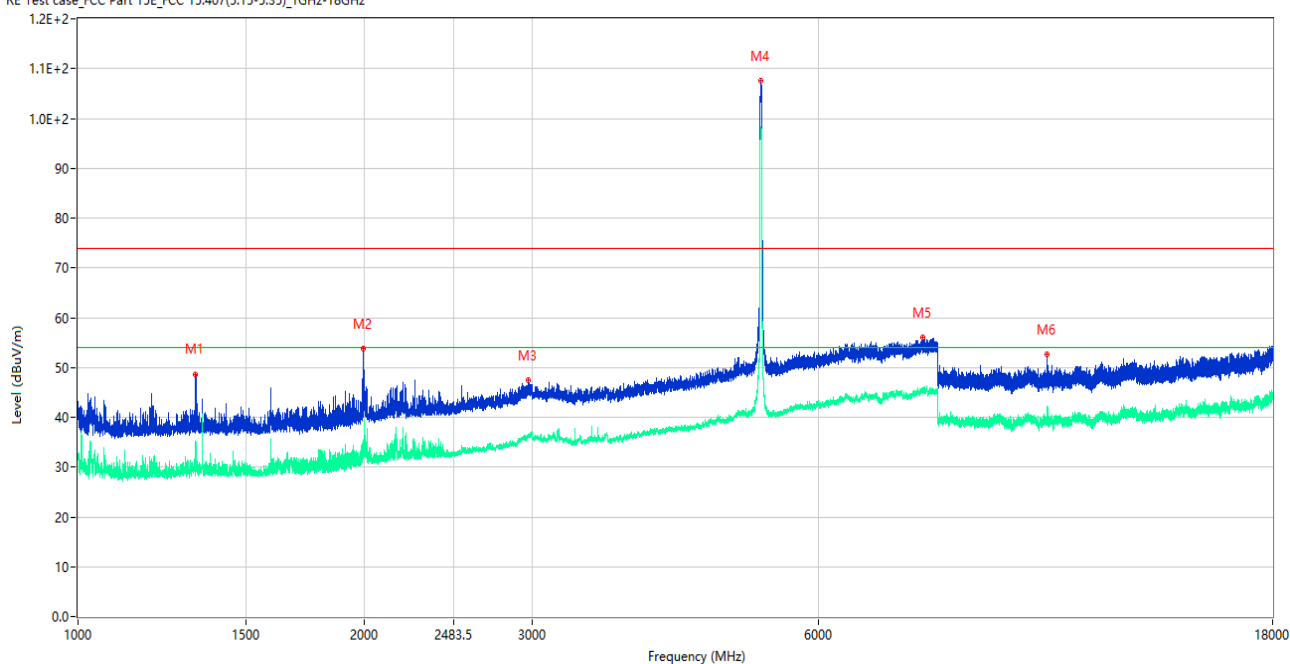
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.000	47.87	-15.30	74.0	26.13	Peak	98.00	150	Horizontal	Pass
1**	1008.000	44.34	-15.30	54.0	9.66	AV	98.00	150	Horizontal	Pass
2	1726.250	44.81	-15.16	74.0	29.19	Peak	338.00	150	Horizontal	Pass
2**	1726.250	28.70	-15.16	54.0	25.30	AV	338.00	150	Horizontal	Pass
3	3194.500	47.63	-6.59	74.0	26.37	Peak	179.00	150	Horizontal	Pass
3**	3194.500	36.00	-6.59	54.0	18.00	AV	179.00	150	Horizontal	Pass
4	5218.000	103.78	-0.92	74.0	-29.78	Peak	29.00	150	Horizontal	N/A
4**	5218.000	92.16	-0.92	54.0	-38.16	AV	29.00	150	Horizontal	N/A
5	7114.500	56.30	2.35	74.0	17.70	Peak	301.00	150	Horizontal	Pass
5**	7114.500	44.41	2.35	54.0	9.59	AV	301.00	150	Horizontal	Pass
6	17312.776	54.01	3.34	74.0	19.99	Peak	360.00	150	Horizontal	Pass
6**	17312.776	42.88	3.34	54.0	11.12	AV	360.00	150	Horizontal	Pass

11ax20 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

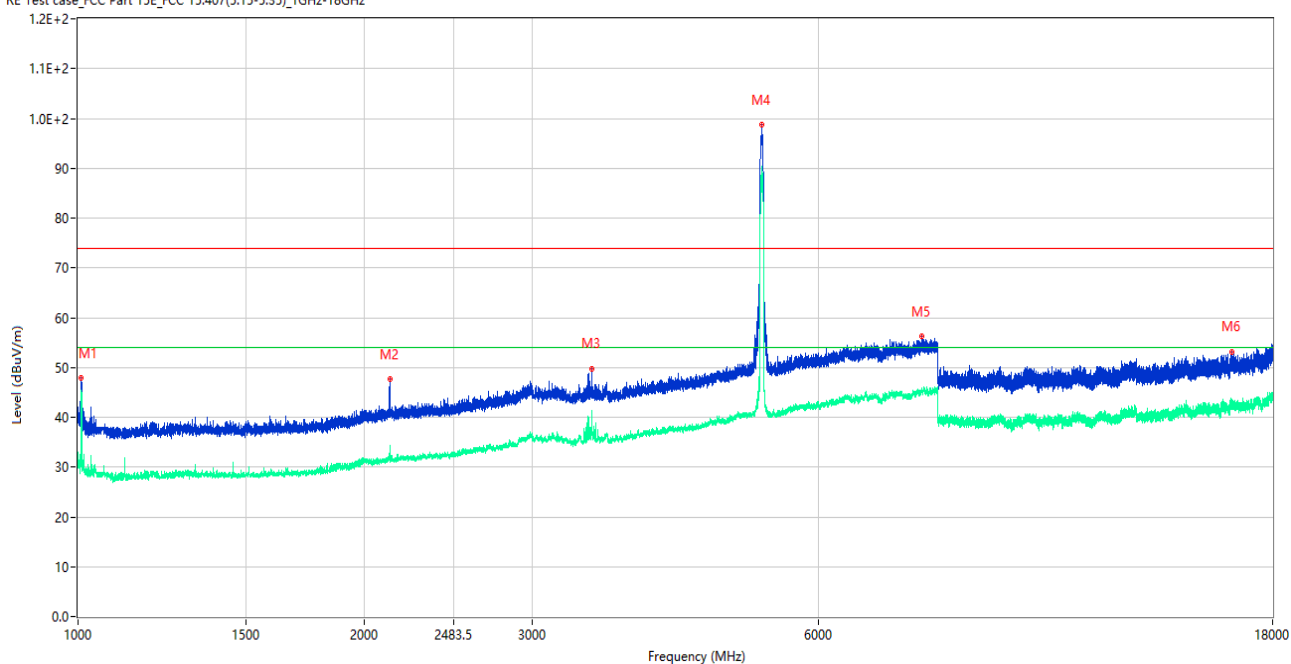
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.250	48.68	-15.51	74.0	25.32	Peak	119.00	150	Vertical	Pass
1**	1329.250	33.35	-15.51	54.0	20.65	AV	119.00	150	Vertical	Pass
2	1996.250	53.74	-13.31	74.0	20.26	Peak	124.00	150	Vertical	Pass
2**	1996.250	31.75	-13.31	54.0	22.25	AV	124.00	150	Vertical	Pass
3	2971.750	47.37	-6.25	74.0	26.63	Peak	127.00	150	Vertical	Pass
3**	2971.750	36.25	-6.25	54.0	17.75	AV	127.00	150	Vertical	Pass
4	5219.000	107.58	-0.89	74.0	-33.58	Peak	51.00	150	Vertical	N/A
4**	5219.000	97.88	-0.89	54.0	-43.88	AV	51.00	150	Vertical	N/A
5	7721.000	56.00	3.10	74.0	18.00	Peak	331.00	150	Vertical	Pass
5**	7721.000	45.18	3.10	54.0	8.82	AV	331.00	150	Vertical	Pass
6	10437.224	52.67	-1.16	74.0	21.33	Peak	77.00	150	Vertical	Pass
6**	10437.224	41.27	-1.16	54.0	12.73	AV	77.00	150	Vertical	Pass

11ax40 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

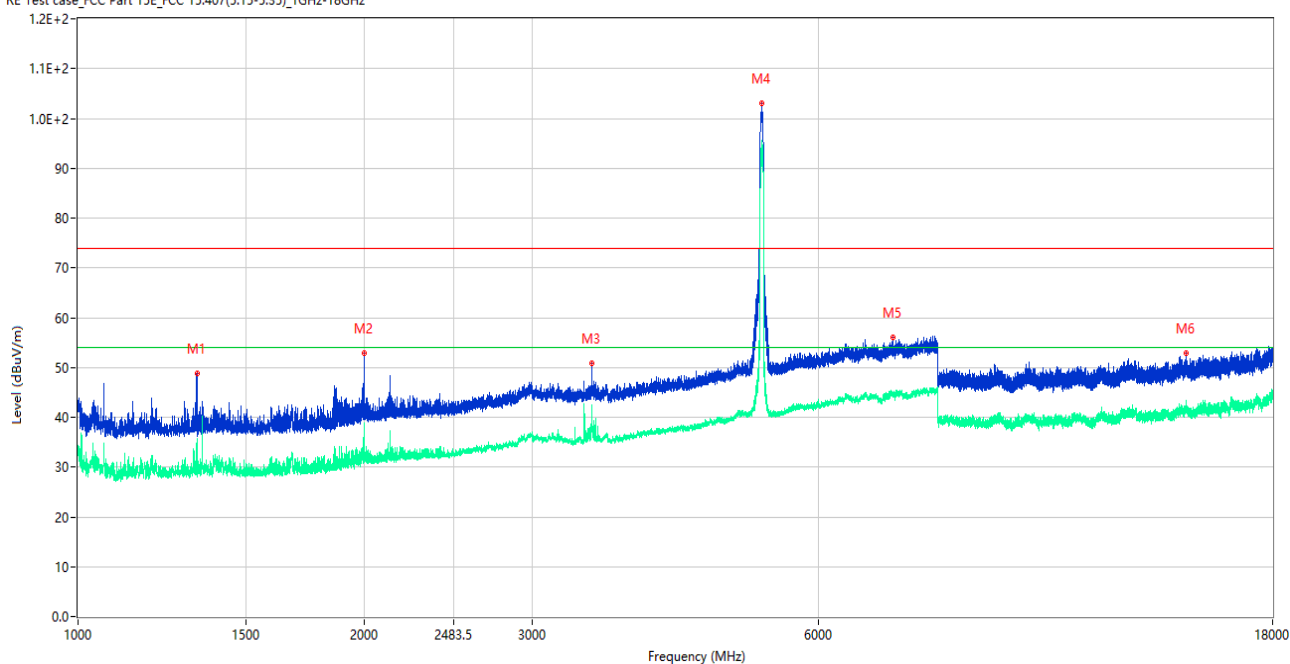
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1008.000	47.90	-15.30	74.0	26.10	Peak	100.00	150	Horizontal	Pass
1**	1008.000	44.72	-15.30	54.0	9.28	AV	100.00	150	Horizontal	Pass
2	2125.750	47.76	-12.19	74.0	26.24	Peak	157.00	150	Horizontal	Pass
2**	2125.750	31.86	-12.19	54.0	22.14	AV	157.00	150	Horizontal	Pass
3	3467.000	49.82	-5.65	74.0	24.18	Peak	360.00	150	Horizontal	Pass
3**	3467.000	40.69	-5.65	54.0	13.31	AV	360.00	150	Horizontal	Pass
4	5233.500	98.77	-0.86	74.0	-24.77	Peak	25.00	150	Horizontal	N/A
4**	5233.500	87.97	-0.86	54.0	-33.97	AV	25.00	150	Horizontal	N/A
5	7702.000	56.28	3.82	74.0	17.72	Peak	231.00	150	Horizontal	Pass
5**	7702.000	45.37	3.82	54.0	8.63	AV	231.00	150	Horizontal	Pass
6	16291.651	53.22	2.36	74.0	20.78	Peak	37.00	150	Horizontal	Pass
6**	16291.651	42.93	2.36	54.0	11.07	AV	37.00	150	Horizontal	Pass

11ax40 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

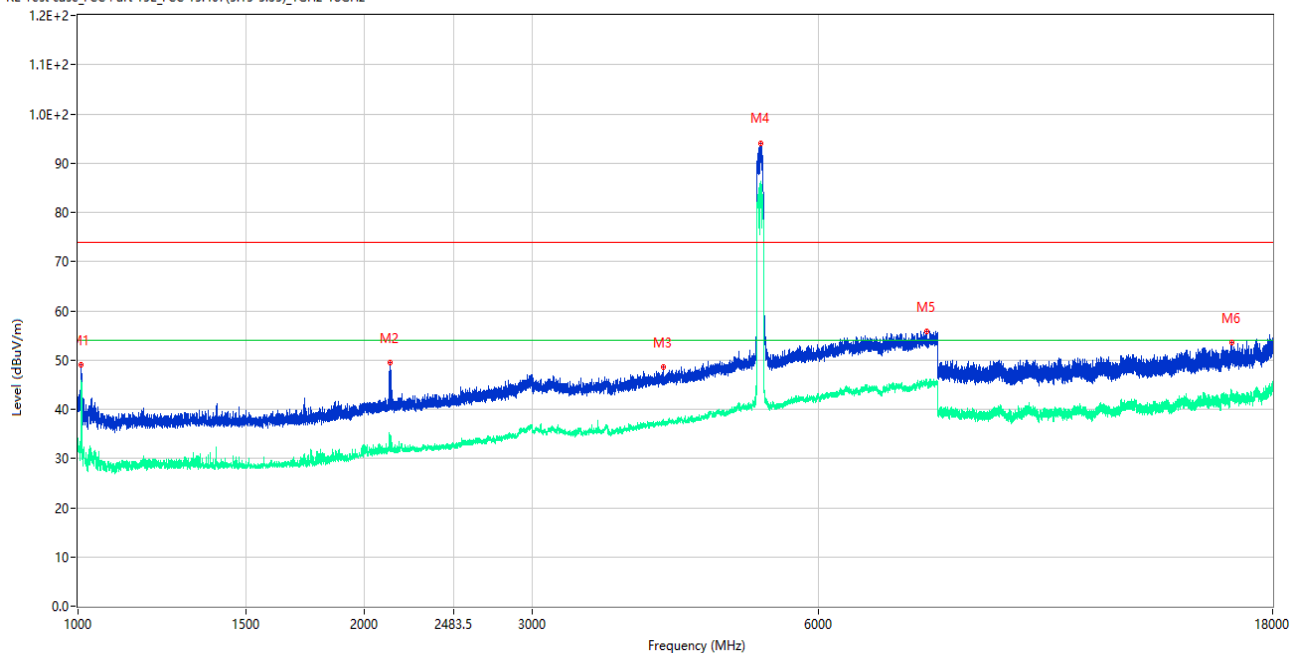
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.250	48.82	-15.55	74.0	25.18	Peak	72.00	150	Vertical	Pass
1**	1333.250	29.46	-15.55	54.0	24.54	AV	72.00	150	Vertical	Pass
2	1997.750	52.88	-13.25	74.0	21.12	Peak	114.00	150	Vertical	Pass
2**	1997.750	32.27	-13.25	54.0	21.73	AV	114.00	150	Vertical	Pass
3	3466.500	50.80	-5.60	74.0	23.20	Peak	211.00	150	Vertical	Pass
3**	3466.500	41.69	-5.60	54.0	12.31	AV	211.00	150	Vertical	Pass
4	5227.000	103.09	-0.81	74.0	-29.09	Peak	50.00	150	Vertical	N/A
4**	5227.000	95.30	-0.81	54.0	-41.30	AV	50.00	150	Vertical	N/A
5	7185.500	55.97	2.19	74.0	18.03	Peak	2.00	150	Vertical	Pass
5**	7185.500	44.62	2.19	54.0	9.38	AV	2.00	150	Vertical	Pass
6	14586.974	52.92	1.09	74.0	21.08	Peak	138.00	150	Vertical	Pass
6**	14586.974	42.82	1.09	54.0	11.18	AV	138.00	150	Vertical	Pass

11ax80 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

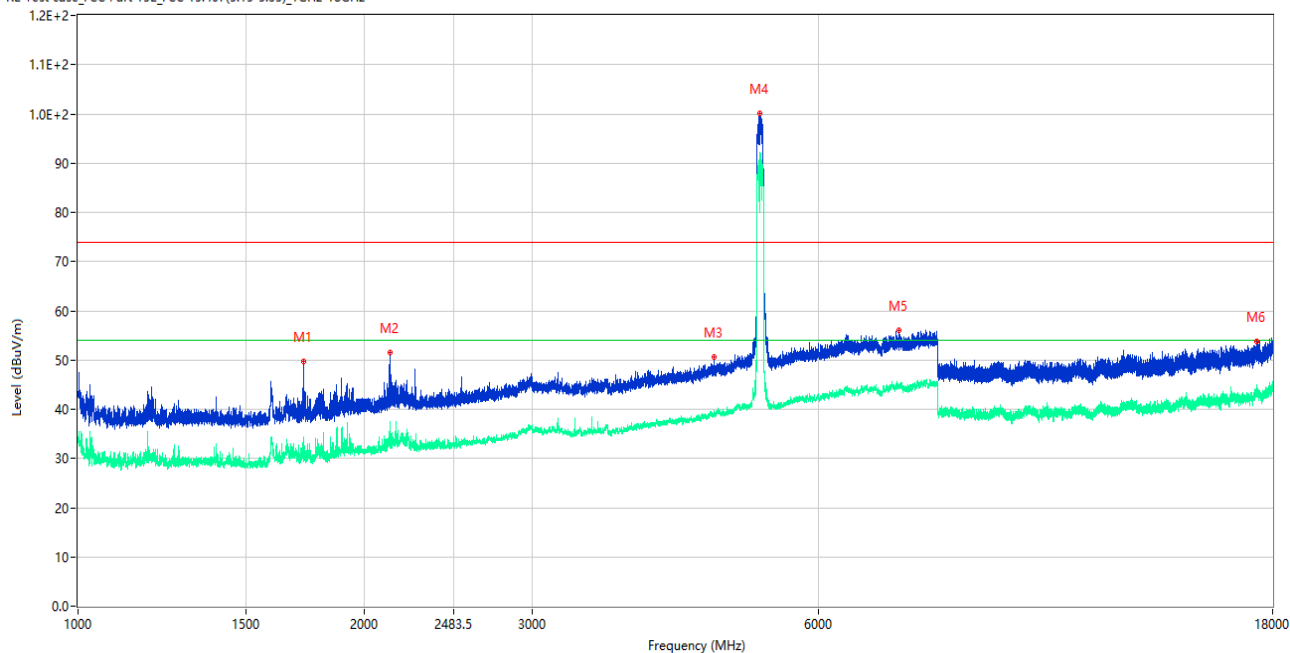
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1007.750	48.95	-15.29	74.0	25.05	Peak	92.00	150	Horizontal	Pass
1**	1007.750	43.80	-15.29	54.0	10.20	AV	92.00	150	Horizontal	Pass
2	2127.750	49.54	-12.13	74.0	24.46	Peak	179.00	150	Horizontal	Pass
2**	2127.750	31.57	-12.13	54.0	22.43	AV	179.00	150	Horizontal	Pass
3	4118.500	48.53	-3.11	74.0	25.47	Peak	176.00	150	Horizontal	Pass
3**	4118.500	37.36	-3.11	54.0	16.64	AV	176.00	150	Horizontal	Pass
4	5217.500	94.12	-0.92	74.0	-20.12	Peak	29.00	150	Horizontal	N/A
4**	5217.500	85.22	-0.92	54.0	-31.22	AV	29.00	150	Horizontal	N/A
5	7786.500	55.88	3.58	74.0	18.12	Peak	58.00	150	Horizontal	Pass
5**	7786.500	45.52	3.58	54.0	8.48	AV	58.00	150	Horizontal	Pass
6	16310.813	53.58	1.95	74.0	20.42	Peak	119.00	150	Horizontal	Pass
6**	16310.813	42.50	1.95	54.0	11.50	AV	119.00	150	Horizontal	Pass

11ax80 (SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

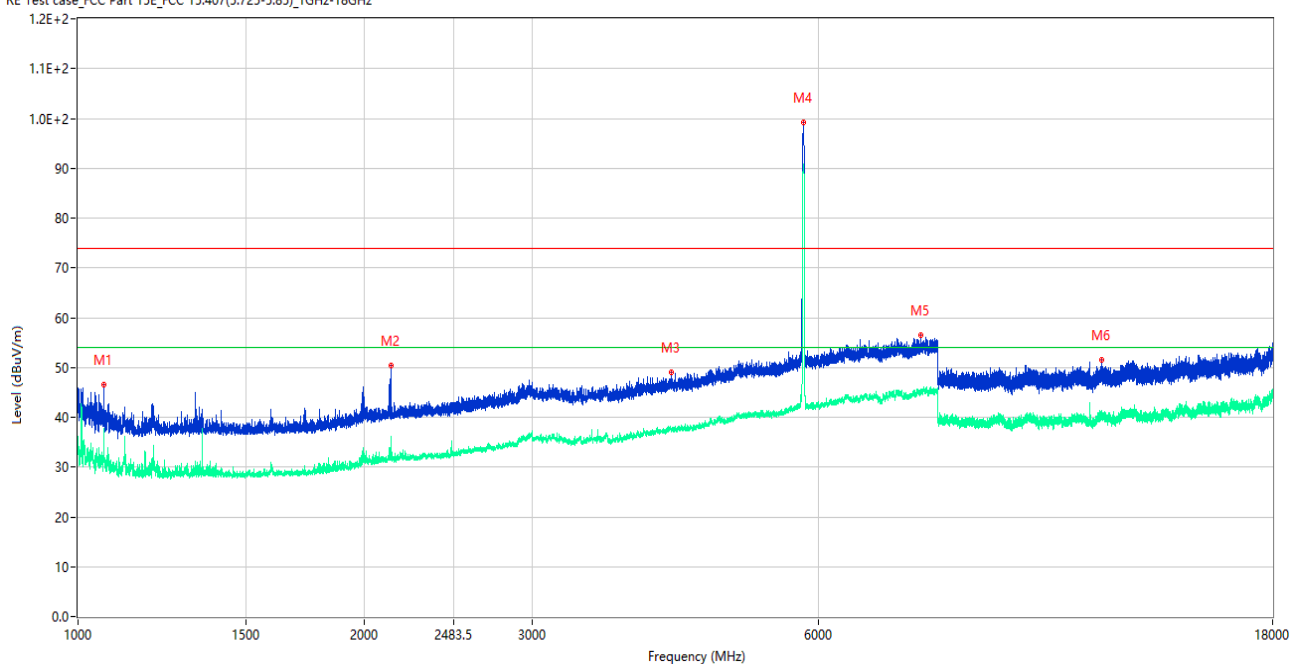
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1727.250	49.64	-15.18	74.0	24.36	Peak	92.00	150	Vertical	Pass
1**	1727.250	33.93	-15.18	54.0	20.07	AV	92.00	150	Vertical	Pass
2	2130.000	51.52	-12.03	74.0	22.48	Peak	101.00	150	Vertical	Pass
2**	2130.000	32.67	-12.03	54.0	21.33	AV	101.00	150	Vertical	Pass
3	4658.000	50.54	-2.03	74.0	23.46	Peak	360.00	150	Vertical	Pass
3**	4658.000	39.10	-2.03	54.0	14.90	AV	360.00	150	Vertical	Pass
4	5205.500	100.16	-0.87	74.0	-26.16	Peak	62.00	150	Vertical	N/A
4**	5205.500	90.75	-0.87	54.0	-36.75	AV	62.00	150	Vertical	N/A
5	7295.500	56.09	2.73	74.0	17.91	Peak	292.00	150	Vertical	Pass
5**	7295.500	44.60	2.73	54.0	9.40	AV	292.00	150	Vertical	Pass
6	17338.761	53.88	4.05	74.0	20.12	Peak	360.00	150	Vertical	Pass
6**	17338.761	43.22	4.05	54.0	10.78	AV	360.00	150	Vertical	Pass

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

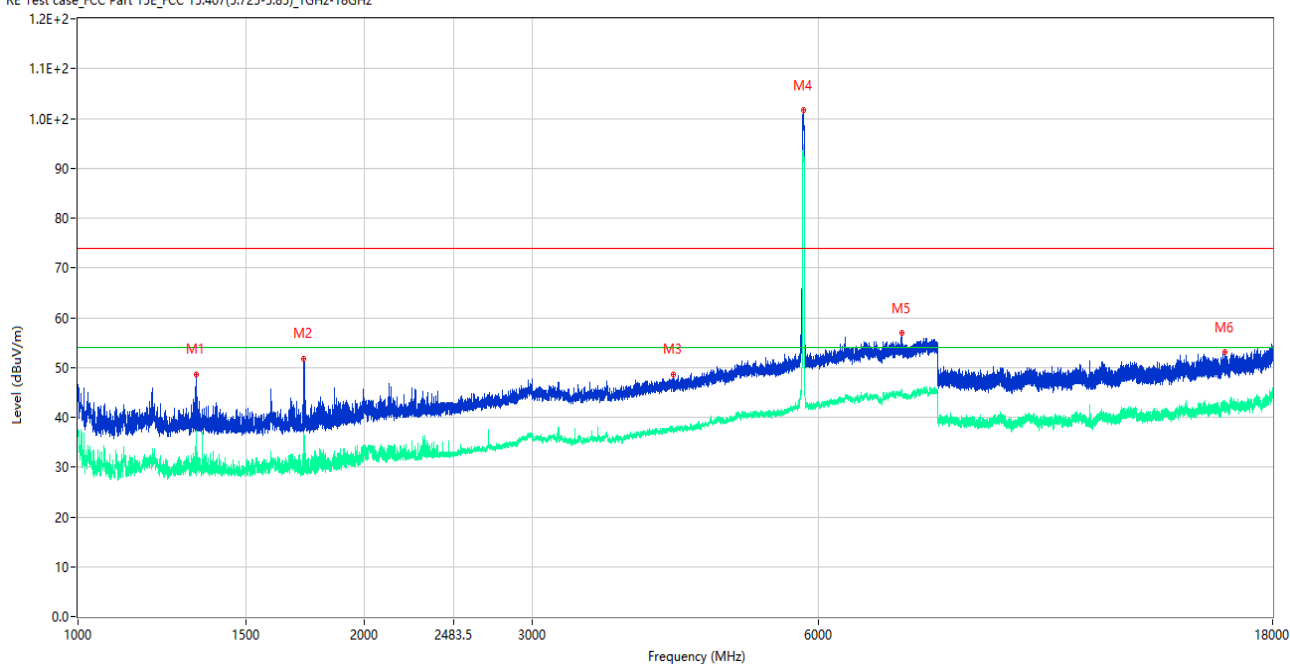
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.500	46.58	-15.56	74.0	27.42	Peak	326.00	150	Horizontal	Pass
1**	1064.500	37.19	-15.56	54.0	16.81	AV	326.00	150	Horizontal	Pass
2	2131.500	50.45	-11.98	74.0	23.55	Peak	270.00	150	Horizontal	Pass
2**	2131.500	32.00	-11.98	54.0	22.00	AV	270.00	150	Horizontal	Pass
3	4205.500	49.00	-2.27	74.0	25.00	Peak	230.00	150	Horizontal	Pass
3**	4205.500	37.29	-2.27	54.0	16.71	AV	230.00	150	Horizontal	Pass
4	5780.000	99.24	0.35	74.0	-25.24	Peak	78.00	150	Horizontal	N/A
4**	5780.000	89.12	0.35	54.0	-35.12	AV	78.00	150	Horizontal	N/A
5	7675.000	56.55	3.26	74.0	17.45	Peak	141.00	150	Horizontal	Pass
5**	7675.000	44.74	3.26	54.0	9.26	AV	141.00	150	Horizontal	Pass
6	11901.887	51.53	-0.81	74.0	22.47	Peak	0.00	150	Horizontal	Pass
6**	11901.887	40.76	-0.81	54.0	13.24	AV	0.00	150	Horizontal	Pass

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

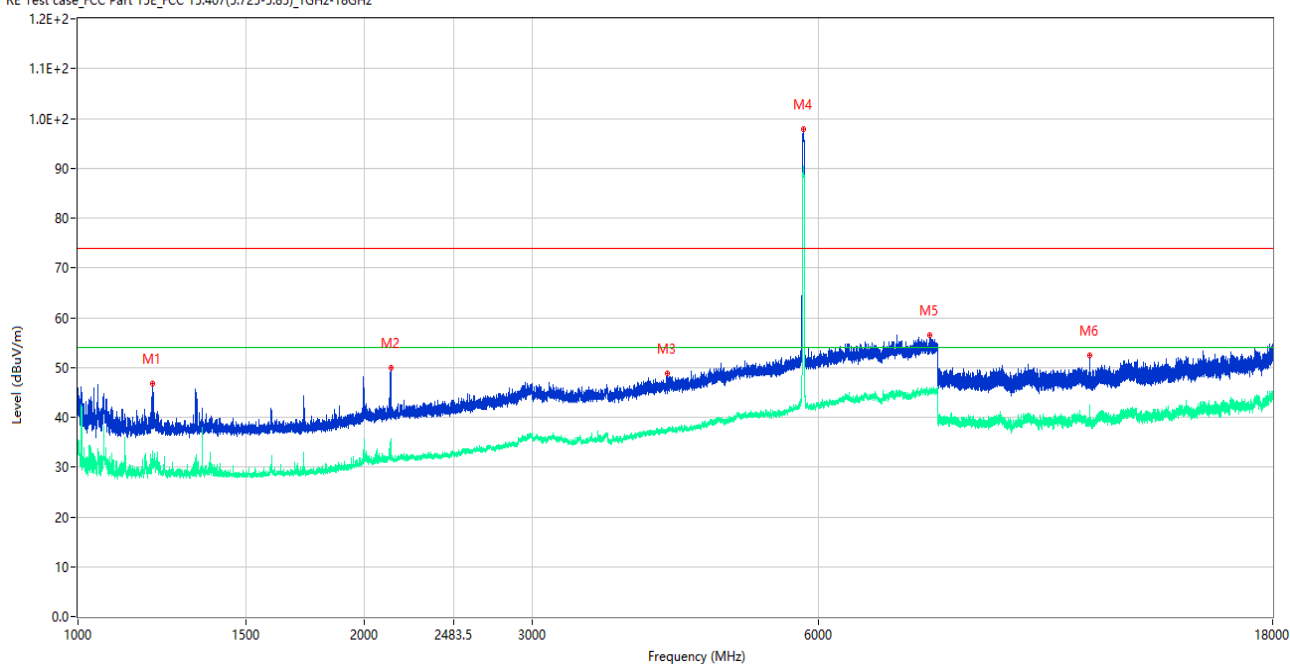
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.000	48.69	-15.53	74.0	25.31	Peak	192.00	150	Vertical	Pass
1**	1332.000	33.57	-15.53	54.0	20.43	AV	192.00	150	Vertical	Pass
2	1725.500	51.84	-15.16	74.0	22.16	Peak	171.00	150	Vertical	Pass
2**	1725.500	28.53	-15.16	54.0	25.47	AV	171.00	150	Vertical	Pass
3	4217.500	48.50	-2.84	74.0	25.50	Peak	360.00	150	Vertical	Pass
3**	4217.500	37.35	-2.84	54.0	16.65	AV	360.00	150	Vertical	Pass
4	5783.000	101.75	0.32	74.0	-27.75	Peak	300.00	150	Vertical	N/A
4**	5783.000	94.38	0.32	54.0	-40.38	AV	300.00	150	Vertical	N/A
5	7337.500	56.86	3.05	74.0	17.14	Peak	259.00	150	Vertical	Pass
5**	7337.500	44.97	3.05	54.0	9.03	AV	259.00	150	Vertical	Pass
6	16021.800	53.19	0.93	74.0	20.81	Peak	312.00	150	Vertical	Pass
6**	16021.800	41.94	0.93	54.0	12.06	AV	312.00	150	Vertical	Pass

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

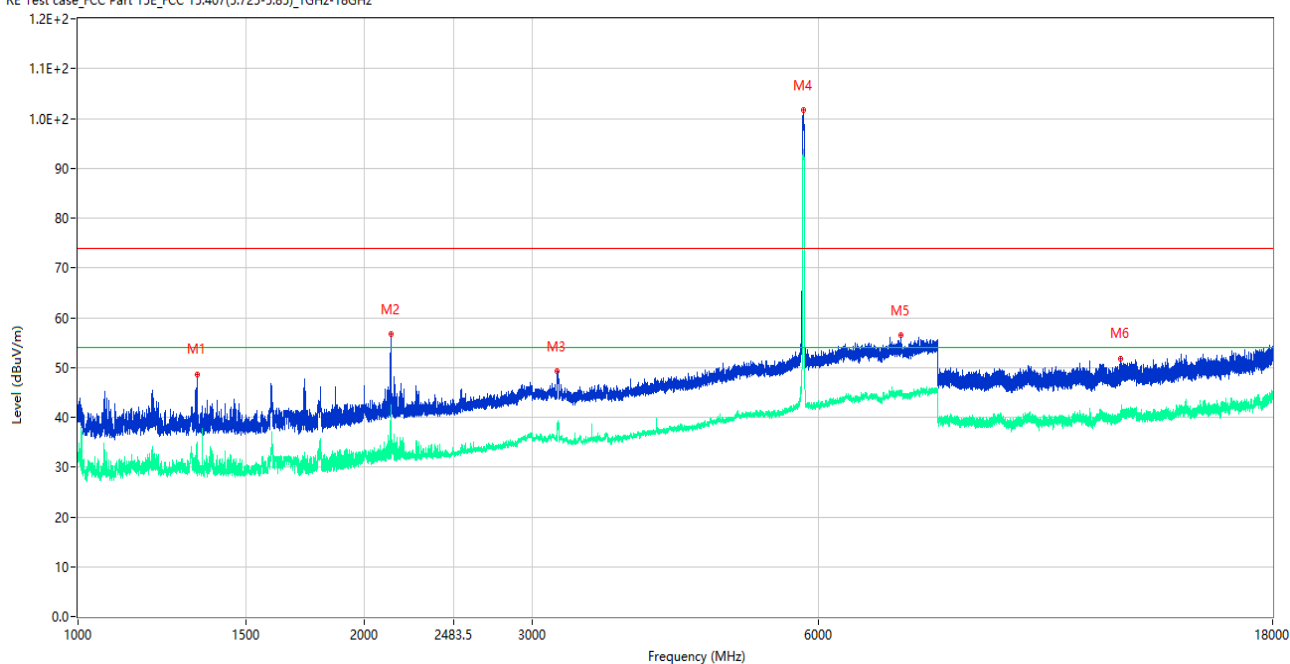
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.000	46.76	-15.26	74.0	27.24	Peak	95.00	150	Horizontal	Pass
1**	1197.000	30.93	-15.26	54.0	23.07	AV	95.00	150	Horizontal	Pass
2	2130.500	49.97	-12.01	74.0	24.03	Peak	131.00	150	Horizontal	Pass
2**	2130.500	32.70	-12.01	54.0	21.30	AV	131.00	150	Horizontal	Pass
3	4162.500	48.92	-3.64	74.0	25.08	Peak	29.00	150	Horizontal	Pass
3**	4162.500	37.17	-3.64	54.0	16.83	AV	29.00	150	Horizontal	Pass
4	5787.000	97.91	0.38	74.0	-23.91	Peak	72.00	150	Horizontal	N/A
4**	5787.000	90.25	0.38	54.0	-36.25	AV	72.00	150	Horizontal	N/A
5	7856.000	56.46	3.76	74.0	17.54	Peak	132.00	150	Horizontal	Pass
5**	7856.000	45.45	3.76	54.0	8.55	AV	132.00	150	Horizontal	Pass
6	11569.150	52.39	-1.16	74.0	21.61	Peak	339.00	150	Horizontal	Pass
6**	11569.150	40.97	-1.16	54.0	13.03	AV	339.00	150	Horizontal	Pass

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

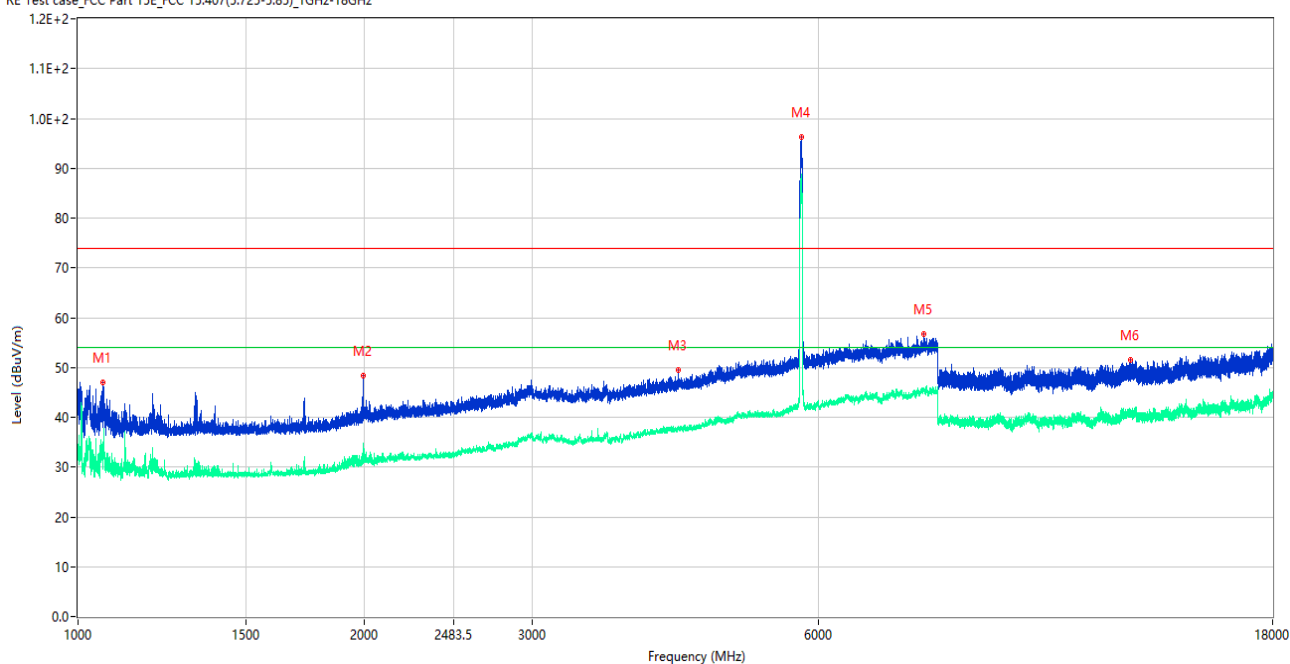
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.500	48.69	-15.55	74.0	25.31	Peak	74.00	150	Vertical	Pass
1**	1333.500	28.32	-15.55	54.0	25.68	AV	74.00	150	Vertical	Pass
2	2132.250	56.79	-11.95	74.0	17.21	Peak	181.00	150	Vertical	Pass
2**	2132.250	34.88	-11.95	54.0	19.12	AV	181.00	150	Vertical	Pass
3	3190.000	49.22	-6.52	74.0	24.78	Peak	169.00	150	Vertical	Pass
3**	3190.000	37.23	-6.52	54.0	16.77	AV	169.00	150	Vertical	Pass
4	5783.000	101.76	0.32	74.0	-27.76	Peak	298.00	150	Vertical	N/A
4**	5783.000	93.40	0.32	54.0	-39.40	AV	298.00	150	Vertical	N/A
5	7326.500	56.42	2.69	74.0	17.58	Peak	320.00	150	Vertical	Pass
5**	7326.500	44.59	2.69	54.0	9.41	AV	320.00	150	Vertical	Pass
6	12456.212	51.84	-0.04	74.0	22.16	Peak	0.00	150	Vertical	Pass
6**	12456.212	40.92	-0.04	54.0	13.08	AV	0.00	150	Vertical	Pass

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

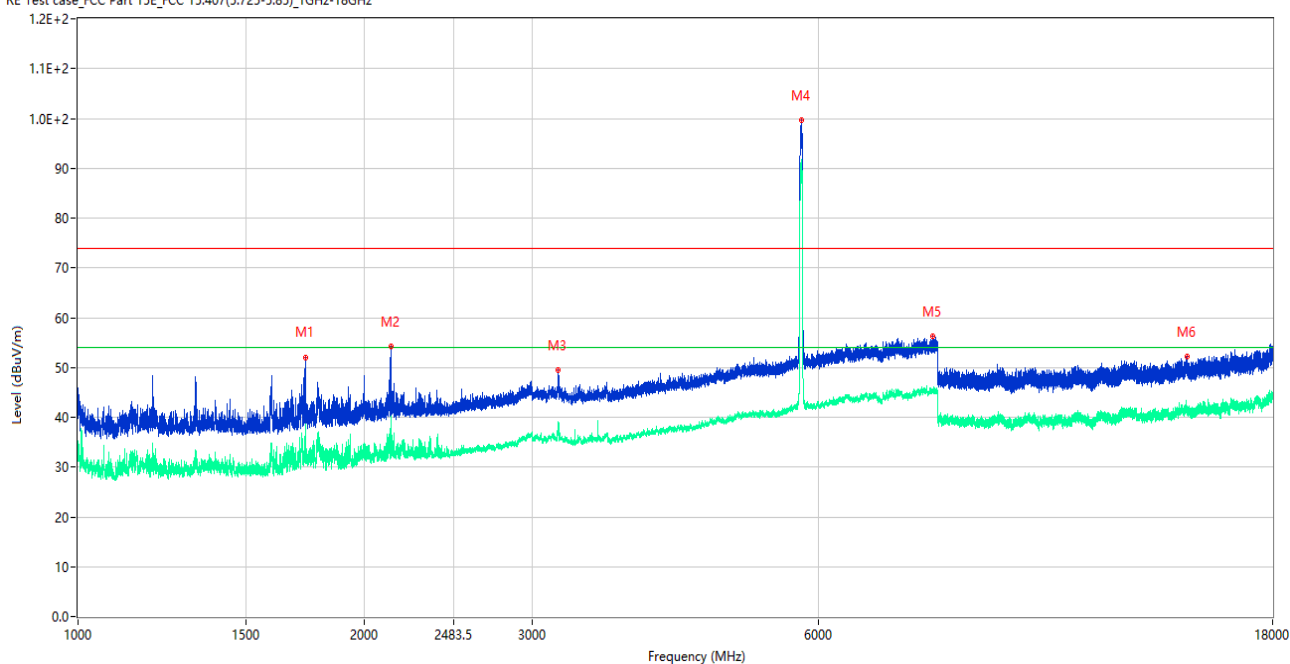
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.250	46.94	-15.58	74.0	27.06	Peak	113.00	150	Horizontal	Pass
1**	1062.250	29.58	-15.58	54.0	24.42	AV	113.00	150	Horizontal	Pass
2	1996.000	48.39	-13.32	74.0	25.61	Peak	127.00	150	Horizontal	Pass
2**	1996.000	31.47	-13.32	54.0	22.53	AV	127.00	150	Horizontal	Pass
3	4276.000	49.42	-2.36	74.0	24.58	Peak	309.00	150	Horizontal	Pass
3**	4276.000	37.69	-2.36	54.0	16.31	AV	309.00	150	Horizontal	Pass
4	5756.500	96.23	0.05	74.0	-22.23	Peak	280.00	150	Horizontal	N/A
4**	5756.500	86.85	0.05	54.0	-32.85	AV	280.00	150	Horizontal	N/A
5	7738.000	56.64	3.36	74.0	17.36	Peak	300.00	150	Horizontal	Pass
5**	7738.000	45.25	3.36	54.0	8.75	AV	300.00	150	Horizontal	Pass
6	12760.237	51.56	-0.22	74.0	22.44	Peak	0.00	150	Horizontal	Pass
6**	12760.237	40.85	-0.22	54.0	13.15	AV	0.00	150	Horizontal	Pass

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

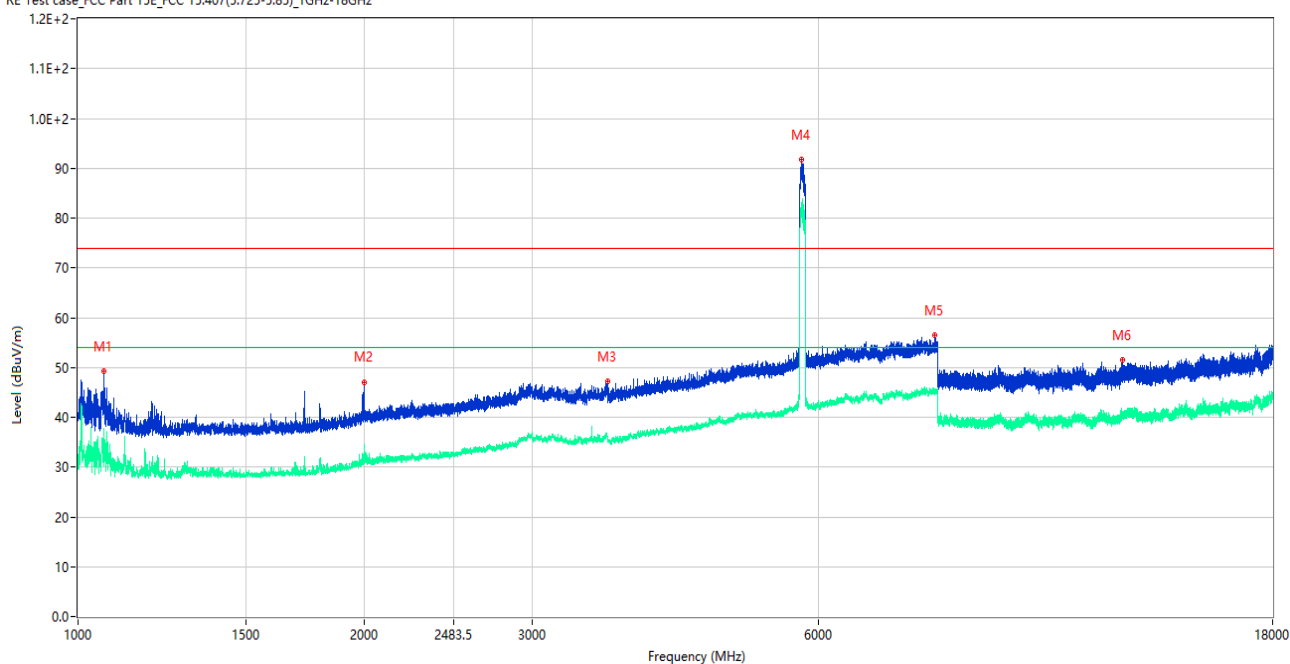
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1733.000	52.07	-15.39	74.0	21.93	Peak	164.00	150	Vertical	Pass
1**	1733.000	32.76	-15.39	54.0	21.24	AV	164.00	150	Vertical	Pass
2	2132.750	54.34	-11.91	74.0	19.66	Peak	197.00	150	Vertical	Pass
2**	2132.750	33.75	-11.91	54.0	20.25	AV	197.00	150	Vertical	Pass
3	3198.000	49.48	-6.69	74.0	24.52	Peak	167.00	150	Vertical	Pass
3**	3198.000	39.03	-6.69	54.0	14.97	AV	167.00	150	Vertical	Pass
4	5753.000	99.68	0.00	74.0	-25.68	Peak	298.00	150	Vertical	N/A
4**	5753.000	91.70	0.00	54.0	-37.70	AV	298.00	150	Vertical	N/A
5	7911.000	56.27	3.57	74.0	17.73	Peak	157.00	150	Vertical	Pass
5**	7911.000	45.48	3.57	54.0	8.52	AV	157.00	150	Vertical	Pass
6	14637.638	52.20	0.99	74.0	21.80	Peak	173.00	150	Vertical	Pass
6**	14637.638	41.90	0.99	54.0	12.10	AV	173.00	150	Vertical	Pass

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

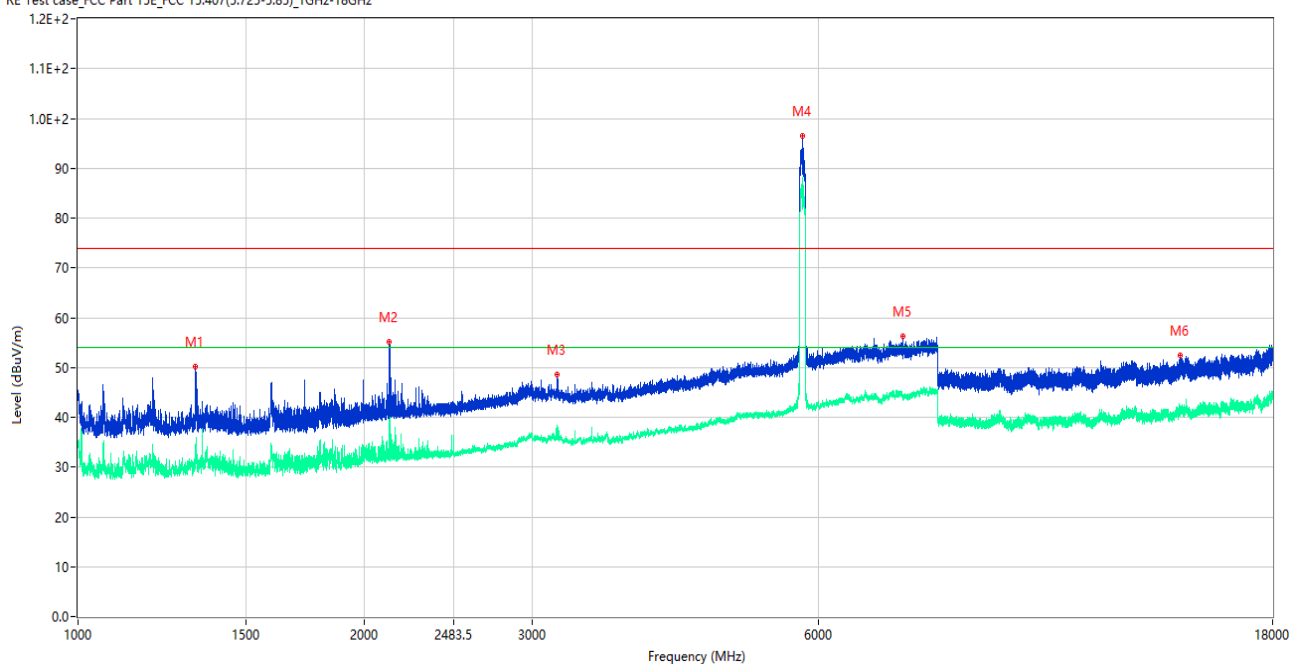
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.250	49.31	-15.58	74.0	24.69	Peak	148.00	150	Horizontal	Pass
1**	1063.250	30.35	-15.58	54.0	23.65	AV	148.00	150	Horizontal	Pass
2	1999.500	47.11	-13.16	74.0	26.89	Peak	243.00	150	Horizontal	Pass
2**	1999.500	31.13	-13.16	54.0	22.87	AV	243.00	150	Horizontal	Pass
3	3599.000	47.18	-4.79	74.0	26.82	Peak	360.00	150	Horizontal	Pass
3**	3599.000	36.22	-4.79	54.0	17.78	AV	360.00	150	Horizontal	Pass
4	5763.000	91.82	0.16	74.0	-17.82	Peak	278.00	150	Horizontal	N/A
4**	5763.000	83.06	0.16	54.0	-29.06	AV	278.00	150	Horizontal	N/A
5	7953.000	56.41	3.94	74.0	17.59	Peak	169.00	150	Horizontal	Pass
5**	7953.000	45.23	3.94	54.0	8.77	AV	169.00	150	Horizontal	Pass
6	12526.037	51.51	-0.34	74.0	22.49	Peak	343.00	150	Horizontal	Pass
6**	12526.037	40.21	-0.34	54.0	13.79	AV	343.00	150	Horizontal	Pass

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

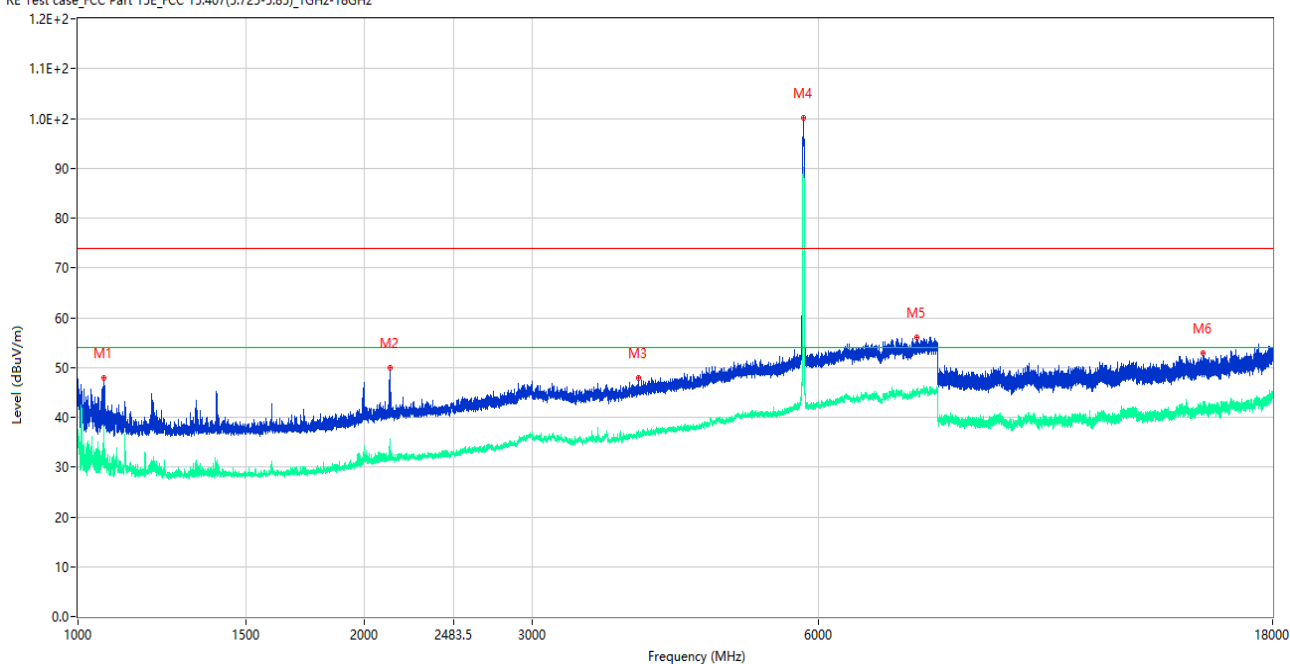
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.500	50.08	-15.51	74.0	23.92	Peak	191.00	150	Vertical	Pass
1**	1329.500	34.50	-15.51	54.0	19.50	AV	191.00	150	Vertical	Pass
2	2124.250	55.14	-12.23	74.0	18.86	Peak	175.00	150	Vertical	Pass
2**	2124.250	32.93	-12.23	54.0	21.07	AV	175.00	150	Vertical	Pass
3	3188.000	48.65	-6.51	74.0	25.35	Peak	180.00	150	Vertical	Pass
3**	3188.000	38.05	-6.51	54.0	15.95	AV	180.00	150	Vertical	Pass
4	5768.000	96.51	0.43	74.0	-22.51	Peak	290.00	150	Vertical	N/A
4**	5768.000	86.89	0.43	54.0	-32.89	AV	290.00	150	Vertical	N/A
5	7353.500	56.19	2.52	74.0	17.81	Peak	110.00	150	Vertical	Pass
5**	7353.500	43.91	2.52	54.0	10.09	AV	110.00	150	Vertical	Pass
6	14409.787	52.36	0.64	74.0	21.64	Peak	0.00	150	Vertical	Pass
6**	14409.787	41.81	0.64	54.0	12.19	AV	0.00	150	Vertical	Pass

11ax20 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

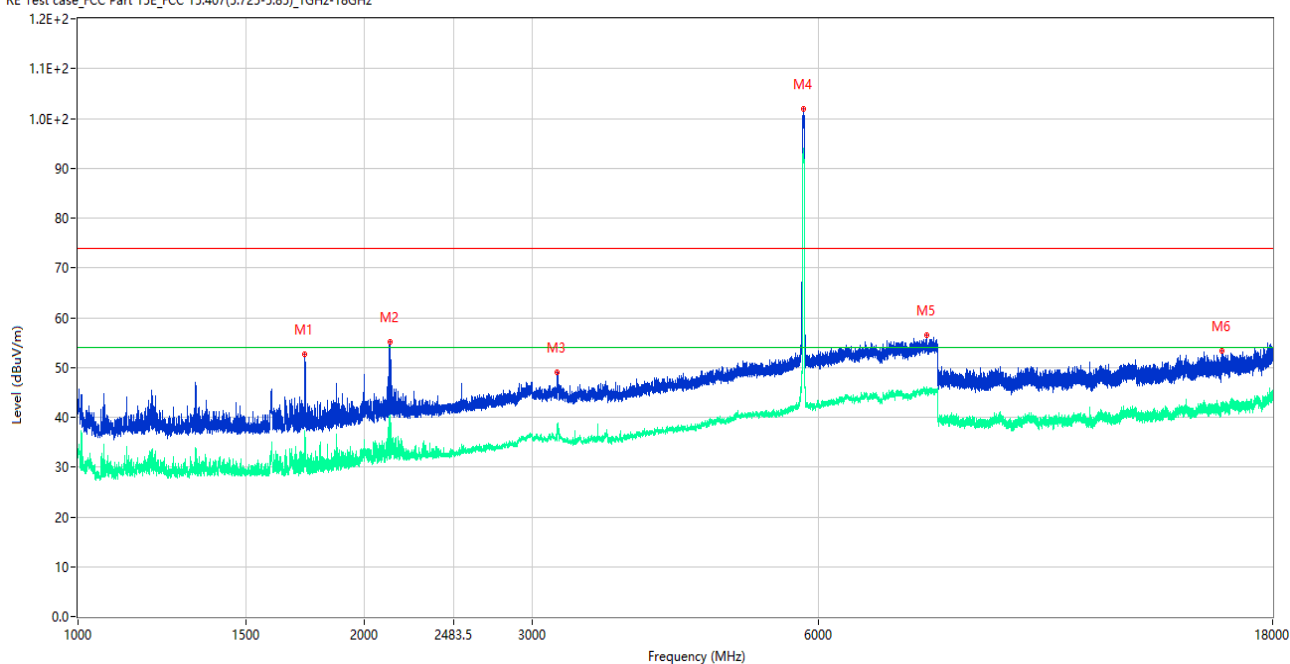
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.250	47.84	-15.57	74.0	26.16	Peak	125.00	150	Horizontal	Pass
1**	1065.250	31.16	-15.57	54.0	22.84	AV	125.00	150	Horizontal	Pass
2	2129.000	49.87	-12.08	74.0	24.13	Peak	274.00	150	Horizontal	Pass
2**	2129.000	31.75	-12.08	54.0	22.25	AV	274.00	150	Horizontal	Pass
3	3879.500	47.96	-3.79	74.0	26.04	Peak	271.00	150	Horizontal	Pass
3**	3879.500	37.06	-3.79	54.0	16.94	AV	271.00	150	Horizontal	Pass
4	5783.500	100.13	0.33	74.0	-26.13	Peak	101.00	150	Horizontal	N/A
4**	5783.500	89.90	0.33	54.0	-35.90	AV	101.00	150	Horizontal	N/A
5	7616.000	56.02	2.75	74.0	17.98	Peak	360.00	150	Horizontal	Pass
5**	7616.000	44.97	2.75	54.0	9.03	AV	360.00	150	Horizontal	Pass
6	15210.150	52.77	1.06	74.0	21.23	Peak	135.00	150	Horizontal	Pass
6**	15210.150	42.12	1.06	54.0	11.88	AV	135.00	150	Horizontal	Pass

11ax20 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

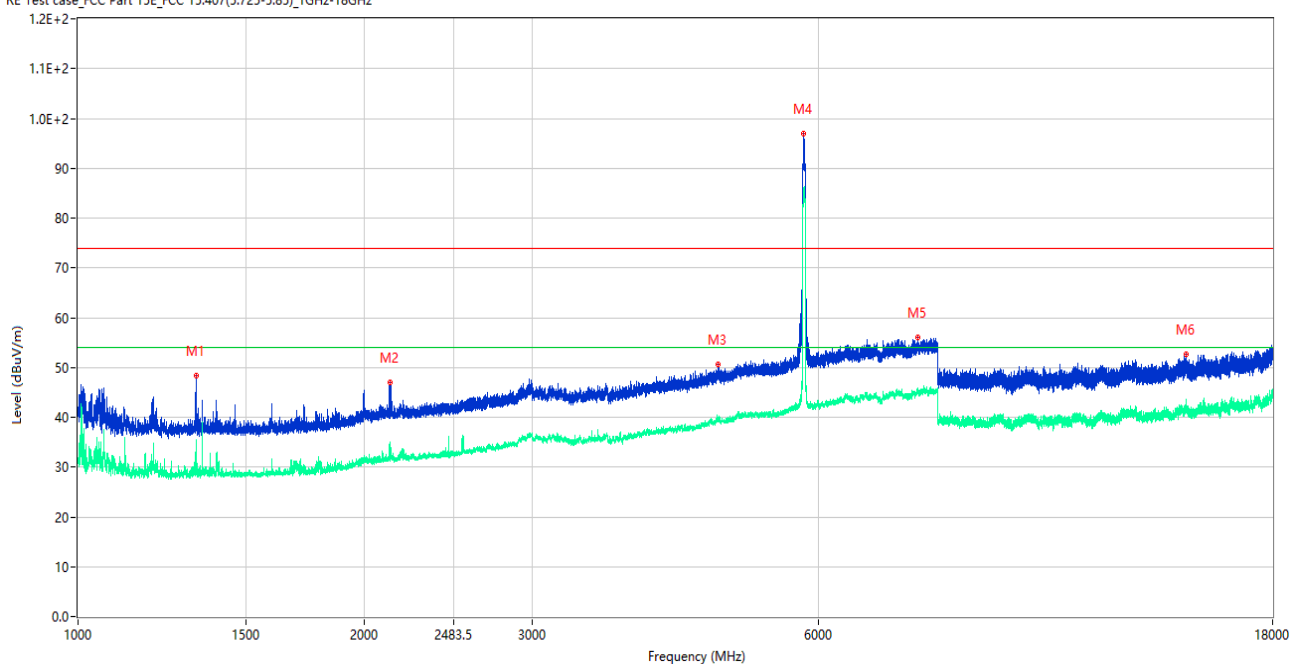
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1731.000	52.63	-15.35	74.0	21.37	Peak	170.00	150	Vertical	Pass
1**	1731.000	37.22	-15.35	54.0	16.78	AV	170.00	150	Vertical	Pass
2	2128.750	55.16	-12.09	74.0	18.84	Peak	208.00	150	Vertical	Pass
2**	2128.750	33.54	-12.09	54.0	20.46	AV	208.00	150	Vertical	Pass
3	3188.500	49.11	-6.52	74.0	24.89	Peak	158.00	150	Vertical	Pass
3**	3188.500	38.01	-6.52	54.0	15.99	AV	158.00	150	Vertical	Pass
4	5787.000	101.94	0.38	74.0	-27.94	Peak	298.00	150	Vertical	N/A
4**	5787.000	92.94	0.38	54.0	-38.94	AV	298.00	150	Vertical	N/A
5	7796.000	56.49	3.92	74.0	17.51	Peak	139.00	150	Vertical	Pass
5**	7796.000	45.64	3.92	54.0	8.36	AV	139.00	150	Vertical	Pass
6	15906.037	53.32	1.10	74.0	20.68	Peak	69.00	150	Vertical	Pass
6**	15906.037	41.77	1.10	54.0	12.23	AV	69.00	150	Vertical	Pass

11ax40 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

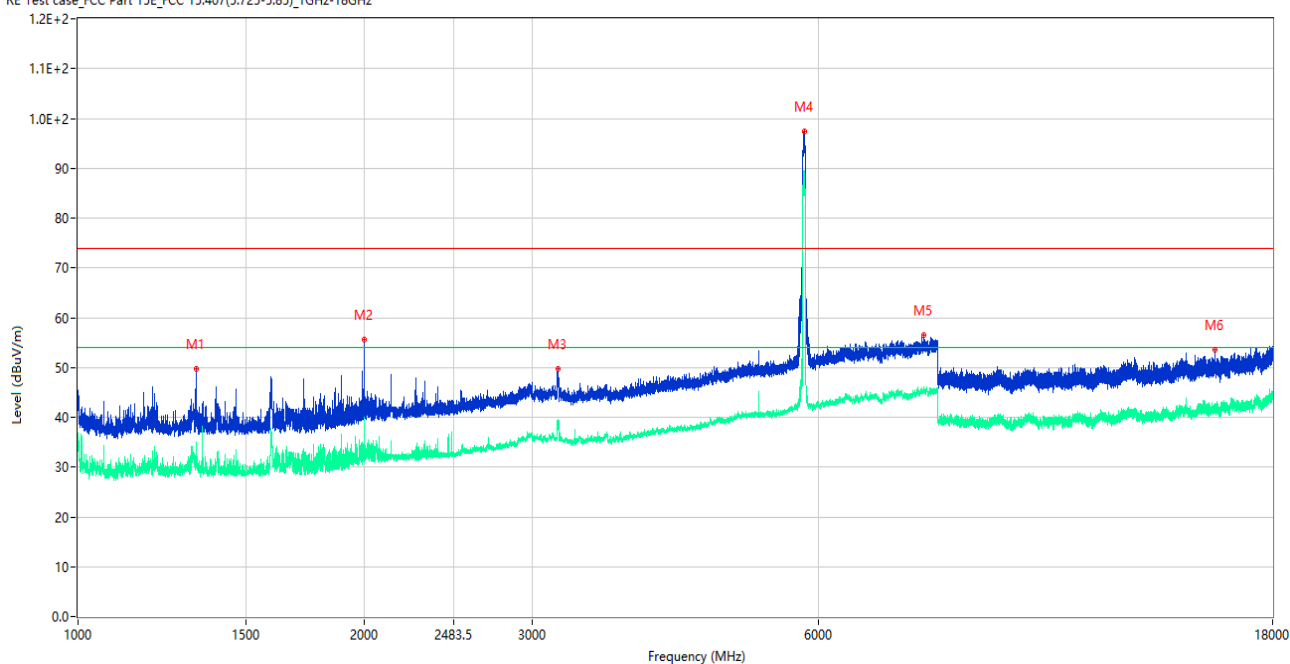
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.000	48.30	-15.52	74.0	25.70	Peak	115.00	150	Horizontal	Pass
1**	1330.000	29.23	-15.52	54.0	24.77	AV	115.00	150	Horizontal	Pass
2	2129.500	46.95	-12.06	74.0	27.05	Peak	138.00	150	Horizontal	Pass
2**	2129.500	31.19	-12.06	54.0	22.81	AV	138.00	150	Horizontal	Pass
3	4704.500	50.60	-2.25	74.0	23.40	Peak	360.00	150	Horizontal	Pass
3**	4704.500	39.54	-2.25	54.0	14.46	AV	360.00	150	Horizontal	Pass
4	5792.500	96.87	0.34	74.0	-22.87	Peak	99.00	150	Horizontal	N/A
4**	5792.500	85.90	0.34	54.0	-31.90	AV	99.00	150	Horizontal	N/A
5	7631.500	56.01	3.00	74.0	17.99	Peak	4.00	150	Horizontal	Pass
5**	7631.500	45.32	3.00	54.0	8.68	AV	4.00	150	Horizontal	Pass
6	14592.750	52.65	1.36	74.0	21.35	Peak	7.00	150	Horizontal	Pass
6**	14592.750	42.39	1.36	54.0	11.61	AV	7.00	150	Horizontal	Pass

11ax40 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

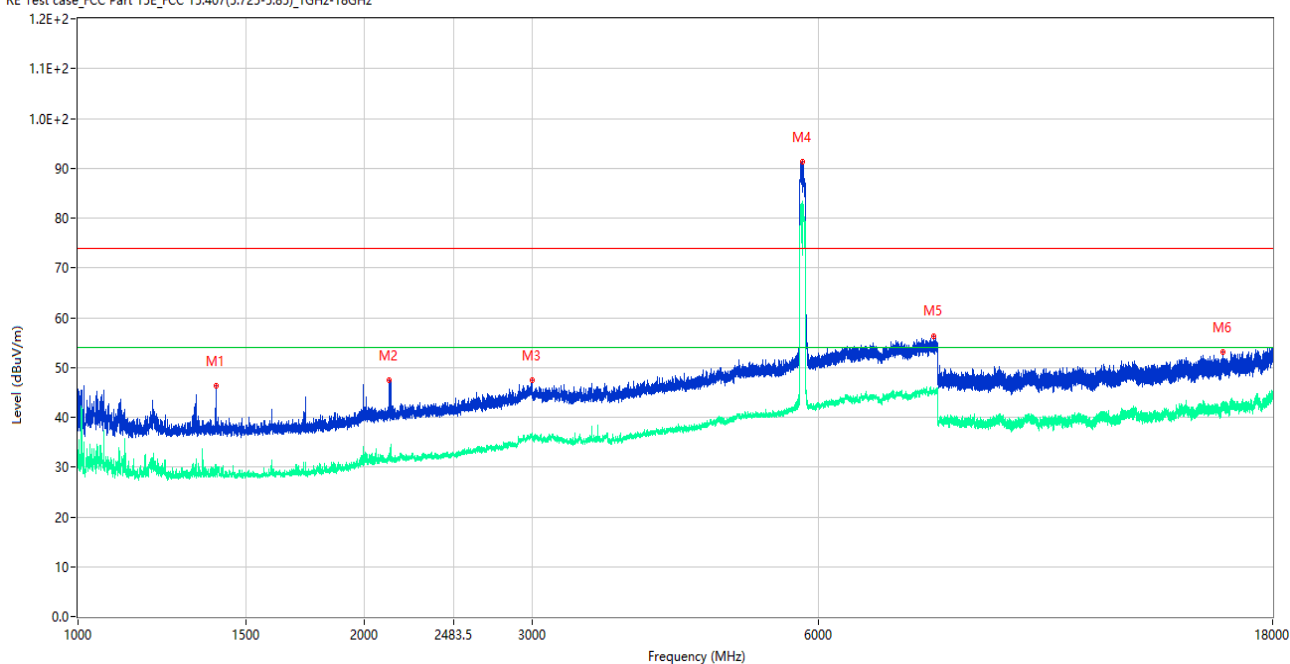
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	v	49.70	-15.52	74.0	24.30	Peak	77.00	150	Vertical	Pass
1**	1330.000	30.28	-15.52	54.0	23.72	AV	77.00	150	Vertical	Pass
2	1999.250	55.58	-13.17	74.0	18.42	Peak	187.00	150	Vertical	Pass
2**	1999.250	32.62	-13.17	54.0	21.38	AV	187.00	150	Vertical	Pass
3	3192.000	49.70	-6.56	74.0	24.30	Peak	167.00	150	Vertical	Pass
3**	3192.000	39.51	-6.56	54.0	14.49	AV	167.00	150	Vertical	Pass
4	5793.500	97.31	0.34	74.0	-23.31	Peak	308.00	150	Vertical	N/A
4**	5793.500	89.42	0.34	54.0	-35.42	AV	308.00	150	Vertical	N/A
5	7732.000	56.41	3.19	74.0	17.59	Peak	360.00	150	Vertical	Pass
5**	7732.000	45.03	3.19	54.0	8.97	AV	360.00	150	Vertical	Pass
6	15648.525	53.47	1.36	74.0	20.53	Peak	345.00	150	Vertical	Pass
6**	15648.525	41.70	1.36	54.0	12.30	AV	345.00	150	Vertical	Pass

11ax80 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

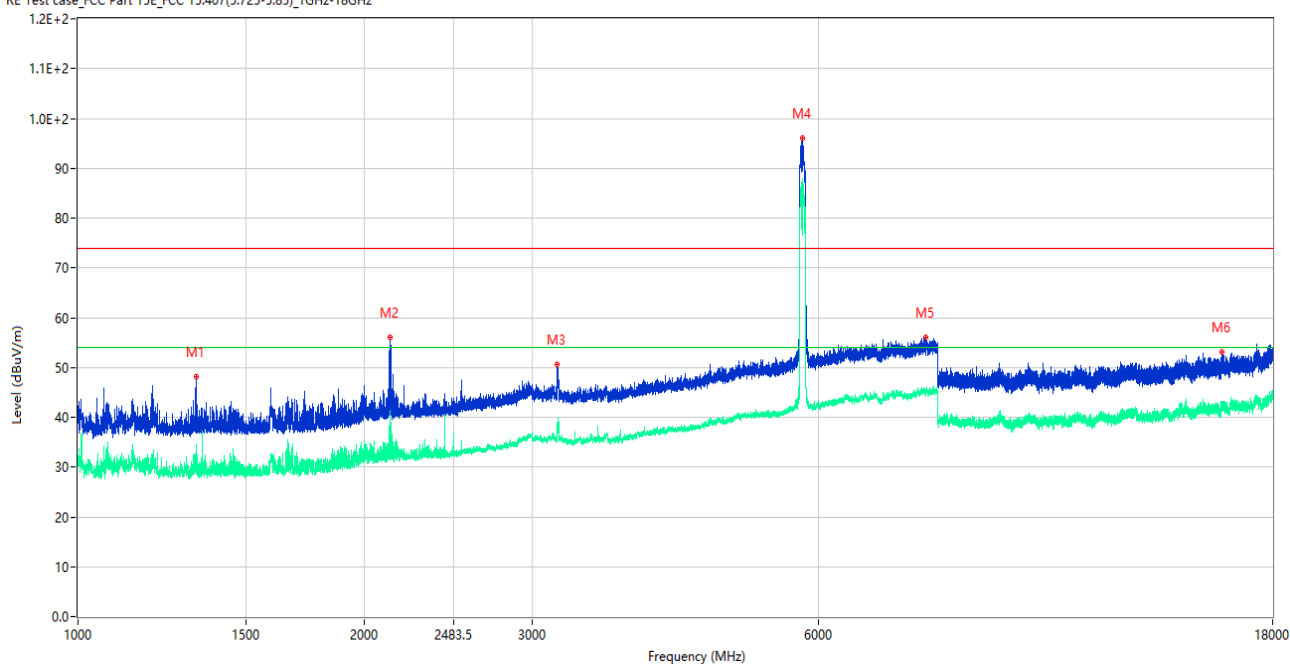
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.250	46.29	-15.45	74.0	27.71	Peak	121.00	150	Horizontal	Pass
1**	1395.250	29.74	-15.45	54.0	24.26	AV	121.00	150	Horizontal	Pass
2	2125.000	47.35	-12.22	74.0	26.65	Peak	139.00	150	Horizontal	Pass
2**	2125.000	31.67	-12.22	54.0	22.33	AV	139.00	150	Horizontal	Pass
3	2999.500	47.38	-5.50	74.0	26.62	Peak	256.00	150	Horizontal	Pass
3**	2999.500	36.36	-5.50	54.0	17.64	AV	256.00	150	Horizontal	Pass
4	5770.500	91.38	0.42	74.0	-17.38	Peak	99.00	150	Horizontal	N/A
4**	5770.500	82.24	0.42	54.0	-28.24	AV	99.00	150	Horizontal	N/A
5	7921.500	56.38	3.66	74.0	17.62	Peak	7.00	150	Horizontal	Pass
5**	7921.500	45.29	3.66	54.0	8.71	AV	7.00	150	Horizontal	Pass
6	15946.463	53.17	1.43	74.0	20.83	Peak	68.00	150	Horizontal	Pass
6**	15946.463	41.98	1.43	54.0	12.02	AV	68.00	150	Horizontal	Pass

11ax80 (SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.500	48.07	-15.52	74.0	25.93	Peak	141.00	150	Vertical	Pass
1**	1331.500	28.60	-15.52	54.0	25.40	AV	141.00	150	Vertical	Pass
2	2128.750	55.97	-12.09	74.0	18.03	Peak	191.00	150	Vertical	Pass
2**	2128.750	32.53	-12.09	54.0	21.47	AV	191.00	150	Vertical	Pass
3	3189.500	50.70	-6.52	74.0	23.30	Peak	161.00	150	Vertical	Pass
3**	3189.500	38.24	-6.52	54.0	15.76	AV	161.00	150	Vertical	Pass
4	5770.500	96.09	0.42	74.0	-22.09	Peak	301.00	150	Vertical	N/A
4**	5770.500	87.97	0.42	54.0	-33.97	AV	301.00	150	Vertical	N/A
5	7773.000	56.05	3.24	74.0	17.95	Peak	40.00	150	Vertical	Pass
5**	7773.000	44.86	3.24	54.0	9.14	AV	40.00	150	Vertical	Pass
6	15936.750	53.15	1.54	74.0	20.85	Peak	205.00	150	Vertical	Pass
6**	15936.750	42.12	1.54	54.0	11.88	AV	205.00	150	Vertical	Pass

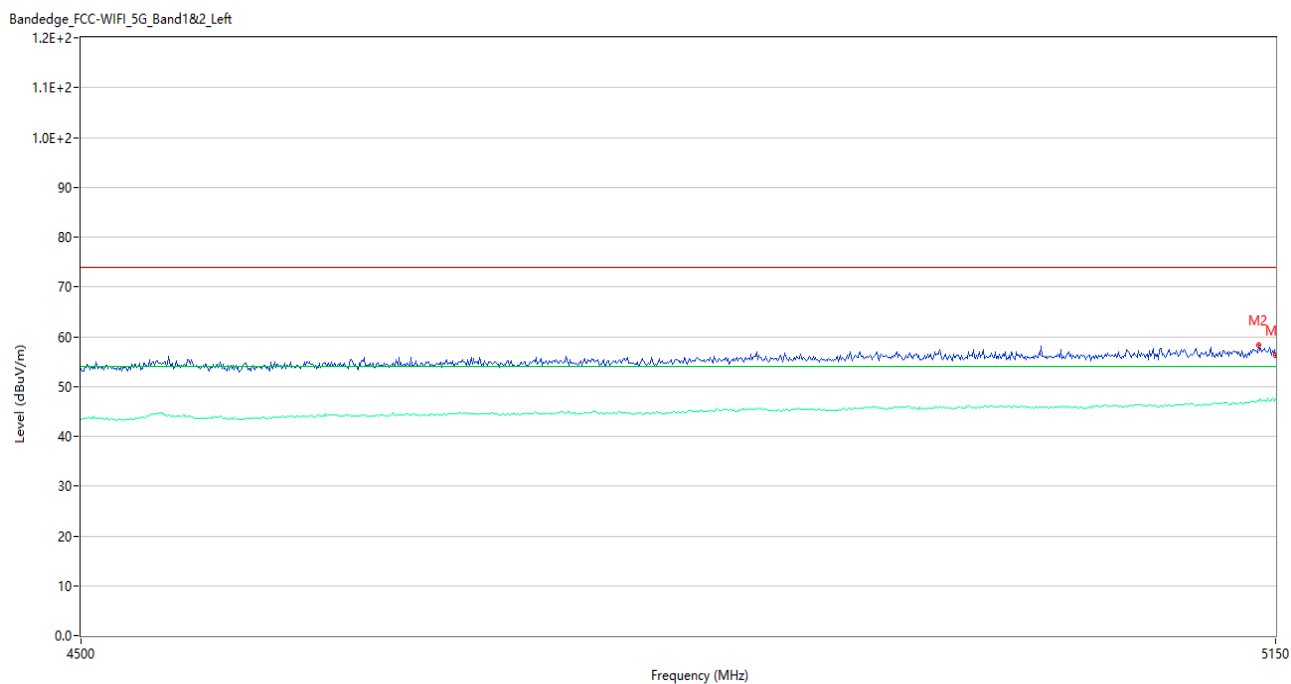
A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
	802.11ax(HE20) (SU)	Low	Pass
		High	Pass
	802.11ax(HE40) (SU)	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
	802.11ax(HE20) (SU)	Low	Pass
		High	Pass
	802.11ax(HE40) (SU)	Low	Pass
		High	Pass
	802.11ax(HE80) (SU)	Middle	Pass

Test Data and Plots

Main Antenna:

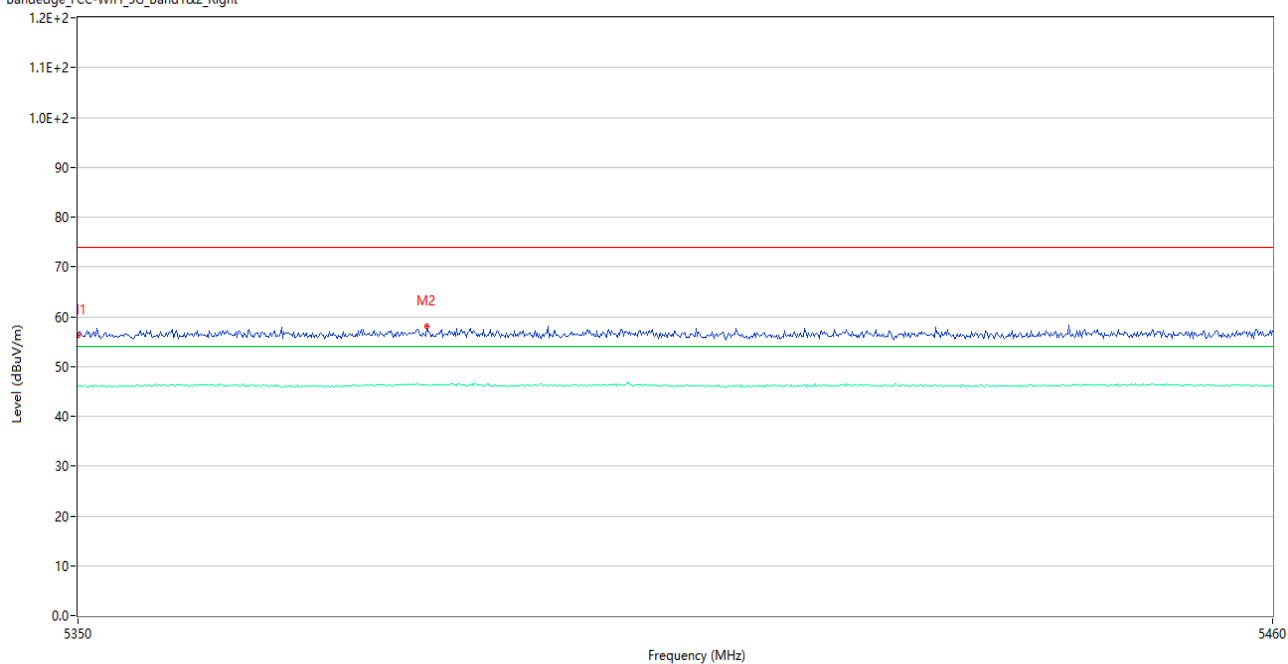
U-NII-1 11a CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.27	5.21	74.0	17.73	Peak	63.02	150	Vertical	Pass
1**	5150.000	47.55	5.21	54.0	6.45	AV	63.02	150	Vertical	Pass
2	5140.250	58.20	5.60	74.0	15.80	Peak	54.00	150	Vertical	Pass
2**	5140.250	47.02	5.60	54.0	6.98	AV	54.00	150	Vertical	Pass

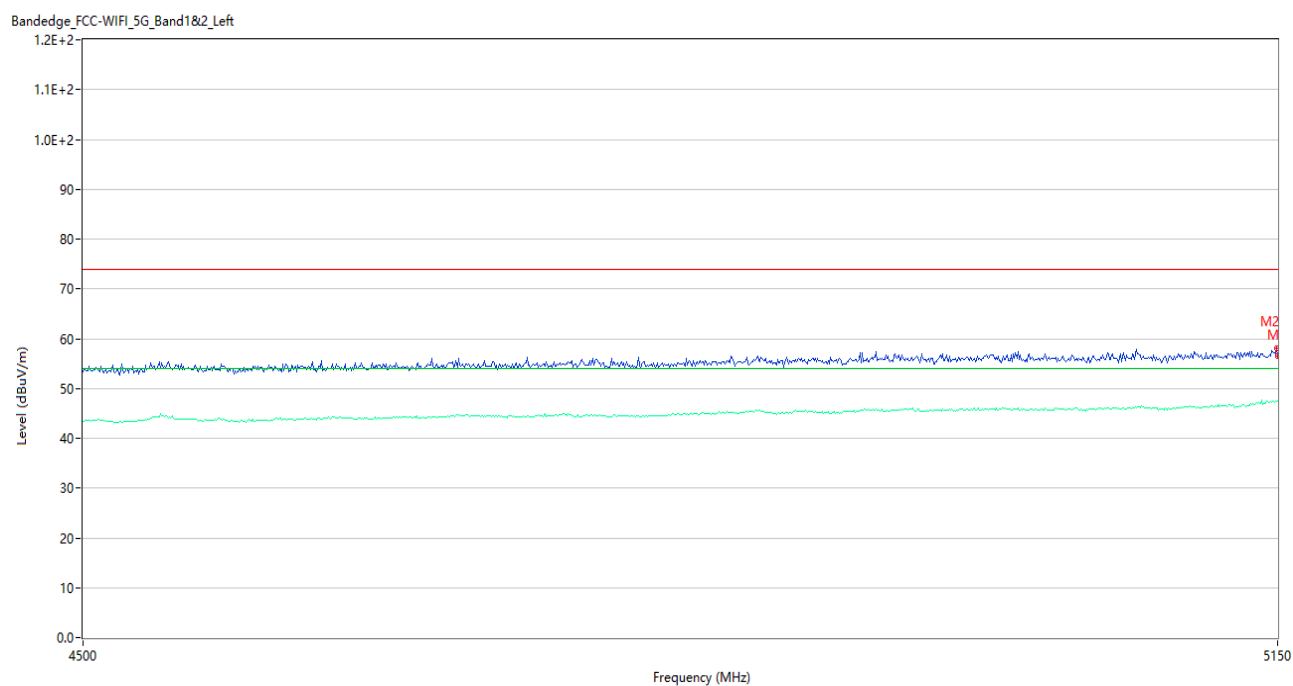
U-NII-1 11a CH48

Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.33	5.40	74.0	17.67	Peak	45.00	150	Vertical	Pass
1**	5350.000	46.08	5.40	54.0	7.92	AV	45.00	150	Vertical	Pass
2	5381.900	58.17	5.69	74.0	15.83	Peak	172.00	150	Vertical	Pass
2**	5381.900	46.30	5.69	54.0	7.70	AV	172.00	150	Vertical	Pass

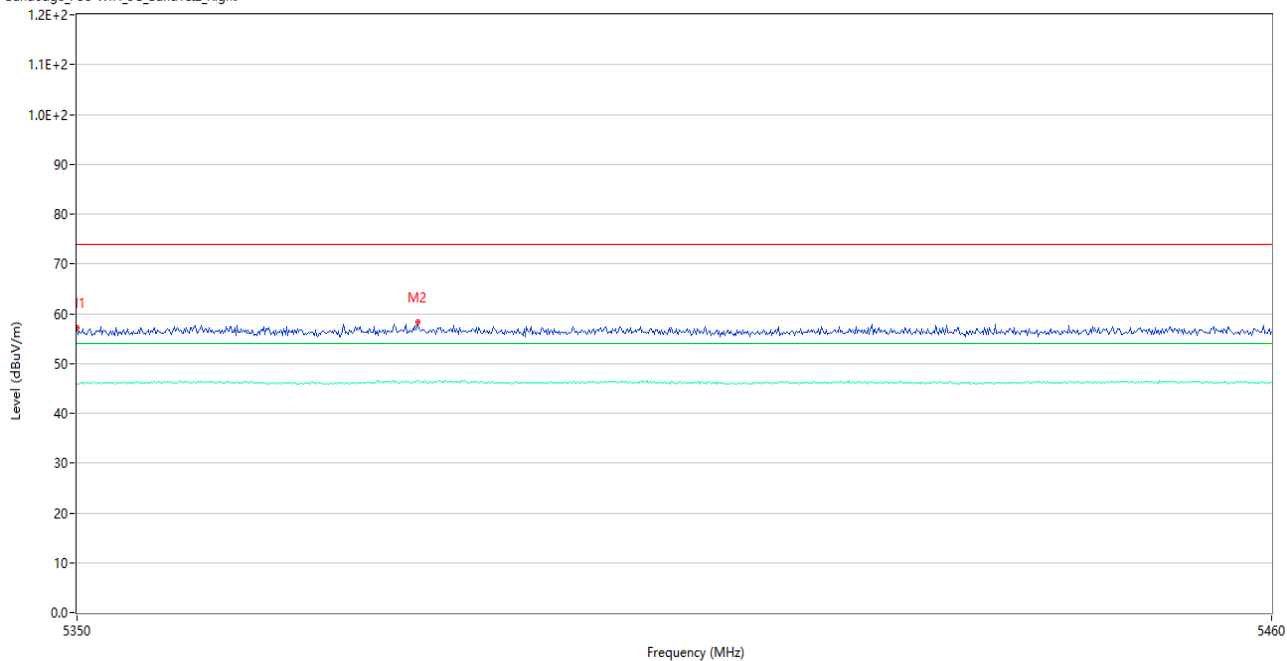
U-NII-1 11n20 CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.59	5.21	74.0	17.41	Peak	65.00	150	Vertical	Pass
1**	5150.000	47.43	5.21	54.0	6.57	AV	65.00	150	Vertical	Pass
2	5149.350	58.04	5.21	74.0	15.96	Peak	46.00	150	Vertical	Pass
2**	5149.350	47.42	5.21	54.0	6.58	AV	46.00	150	Vertical	Pass

U-NII-1 11n20 CH48

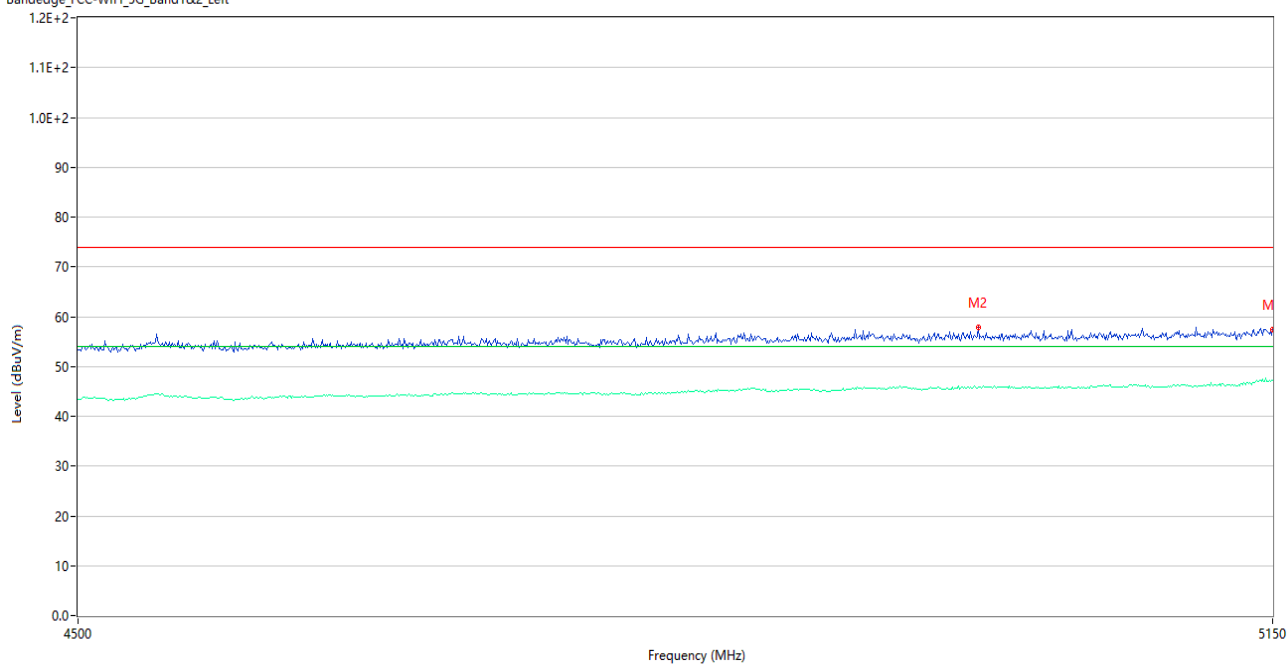
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	57.24	5.40	74.0	16.76	Peak	68.00	150	Vertical	Pass
1**	5350.000	45.97	5.40	54.0	8.03	AV	68.00	150	Vertical	Pass
2	5381.130	58.24	5.68	74.0	15.76	Peak	137.00	150	Vertical	Pass
2**	5381.130	46.45	5.68	54.0	7.55	AV	137.00	150	Vertical	Pass

U-NII-1 11n40 CH38

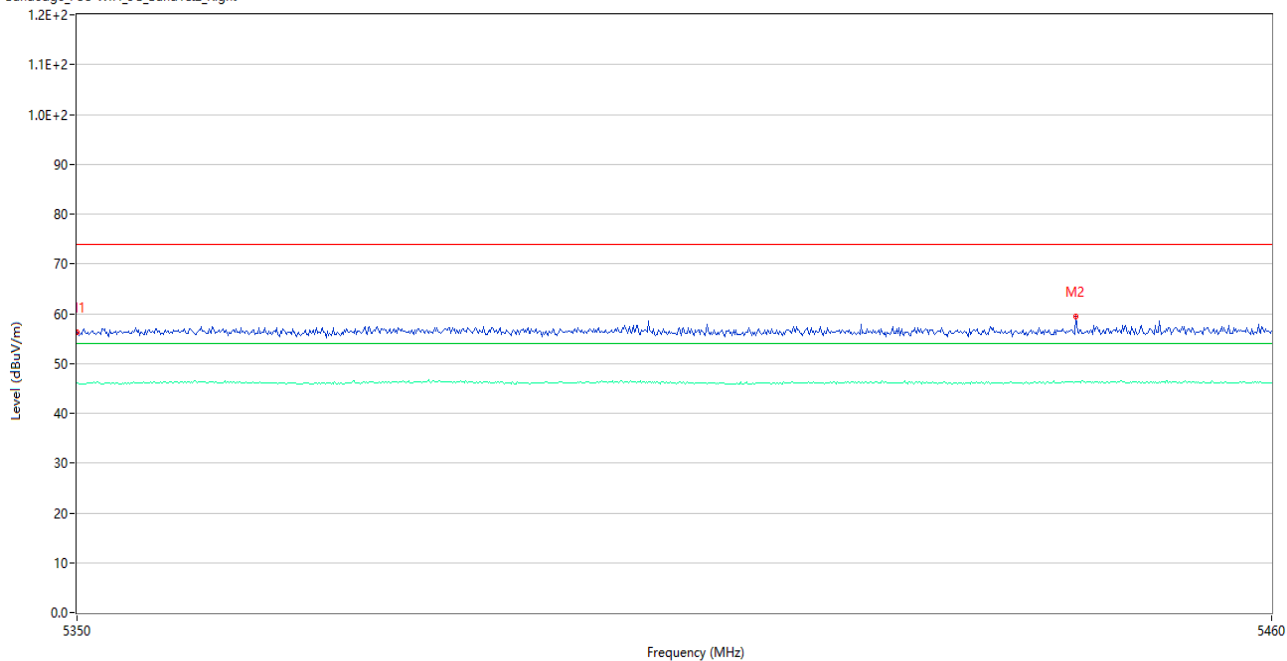
Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	57.43	5.21	74.0	16.57	Peak	21.00	150	Vertical	Pass
1**	5150.000	47.13	5.21	54.0	6.87	AV	21.00	150	Vertical	Pass
2	4981.650	57.86	4.78	74.0	16.14	Peak	59.00	150	Vertical	Pass
2**	4981.650	45.81	4.78	54.0	8.19	AV	59.00	150	Vertical	Pass

U-NII-1 11n40 CH46

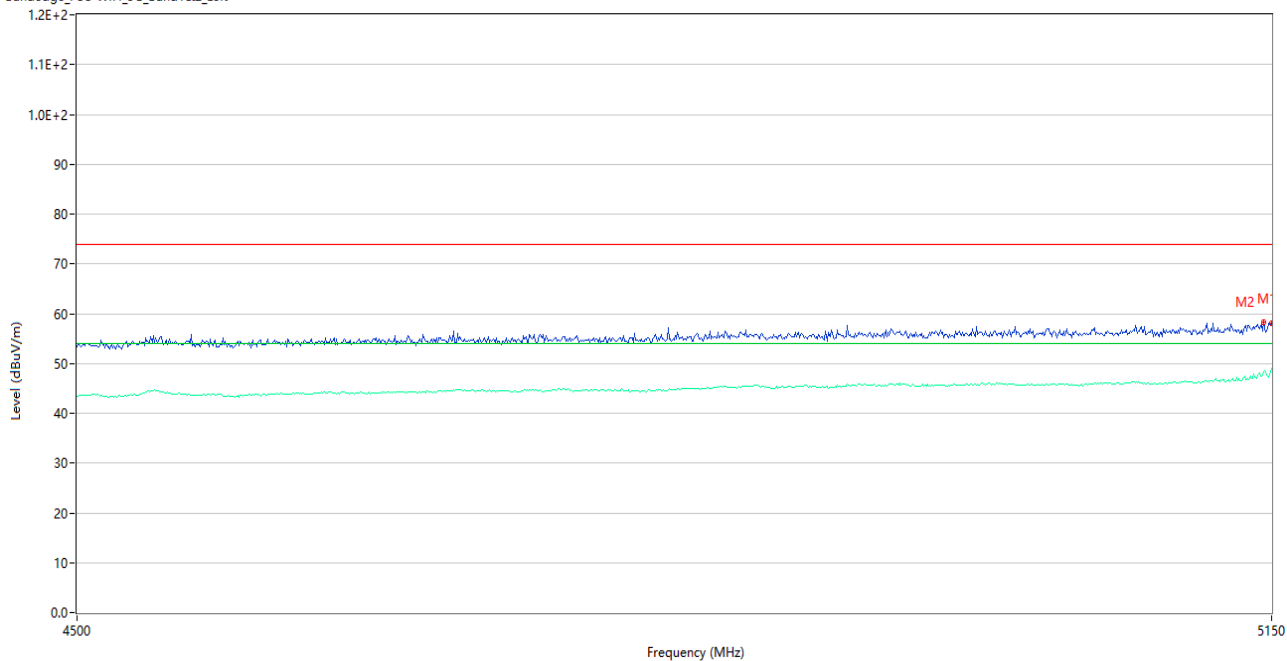
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.23	5.40	74.0	17.77	Peak	175.00	150	Vertical	Pass
1**	5350.000	46.13	5.40	54.0	7.87	AV	175.00	150	Vertical	Pass
2	5441.850	59.46	5.50	74.0	14.54	Peak	57.00	150	Vertical	Pass
2**	5441.850	46.26	5.50	54.0	7.74	AV	57.00	150	Vertical	Pass

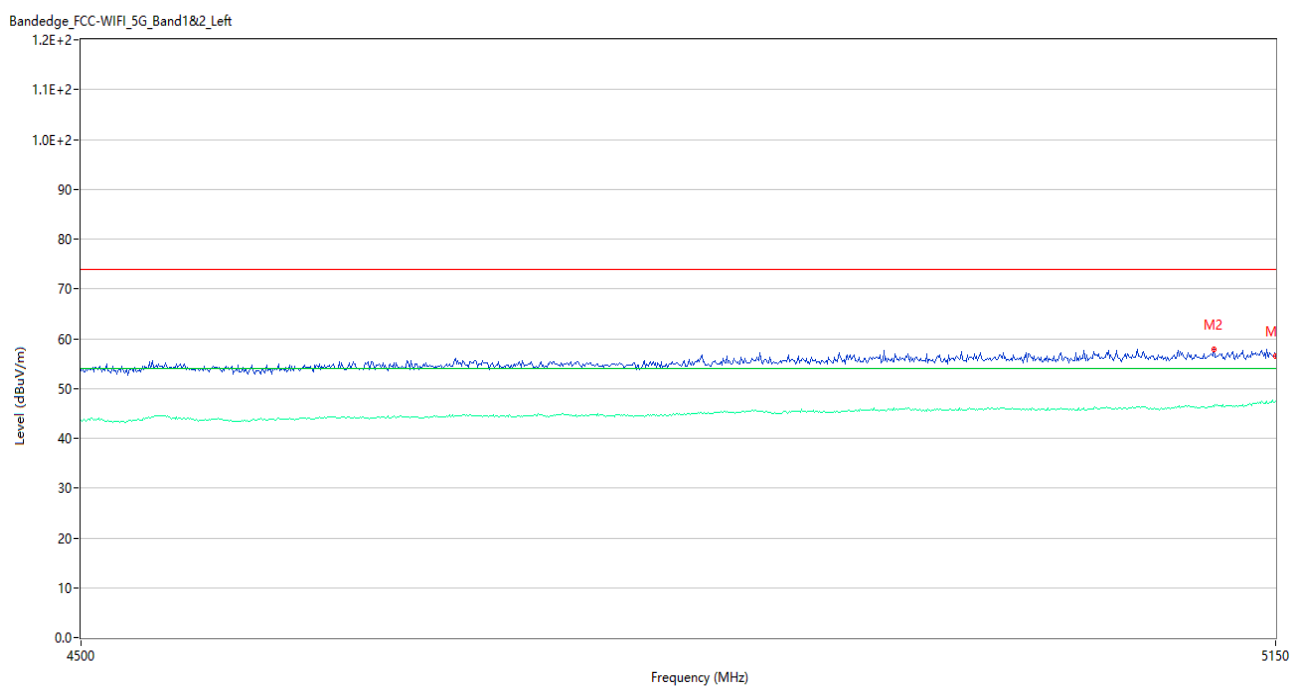
U-NII-1 11ac80 CH42

Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.08	5.21	74.0	15.92	Peak	58.01	150	Vertical	Pass
1**	5150.000	49.10	5.21	54.0	4.90	AV	58.01	150	Vertical	Pass
2	5145.450	58.26	5.41	74.0	15.74	Peak	46.00	150	Vertical	Pass
2**	5145.450	48.25	5.41	54.0	5.75	AV	46.00	150	Vertical	Pass

U-NII-1 11ax20 (SU) CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.48	5.21	74.0	17.52	Peak	129.99	150	Vertical	Pass
1**	5150.000	47.45	5.21	54.0	6.55	AV	129.99	150	Vertical	Pass
2	5114.250	57.94	5.19	74.0	16.06	Peak	188.00	150	Vertical	Pass
2**	5114.250	46.42	5.19	54.0	7.58	AV	188.00	150	Vertical	Pass

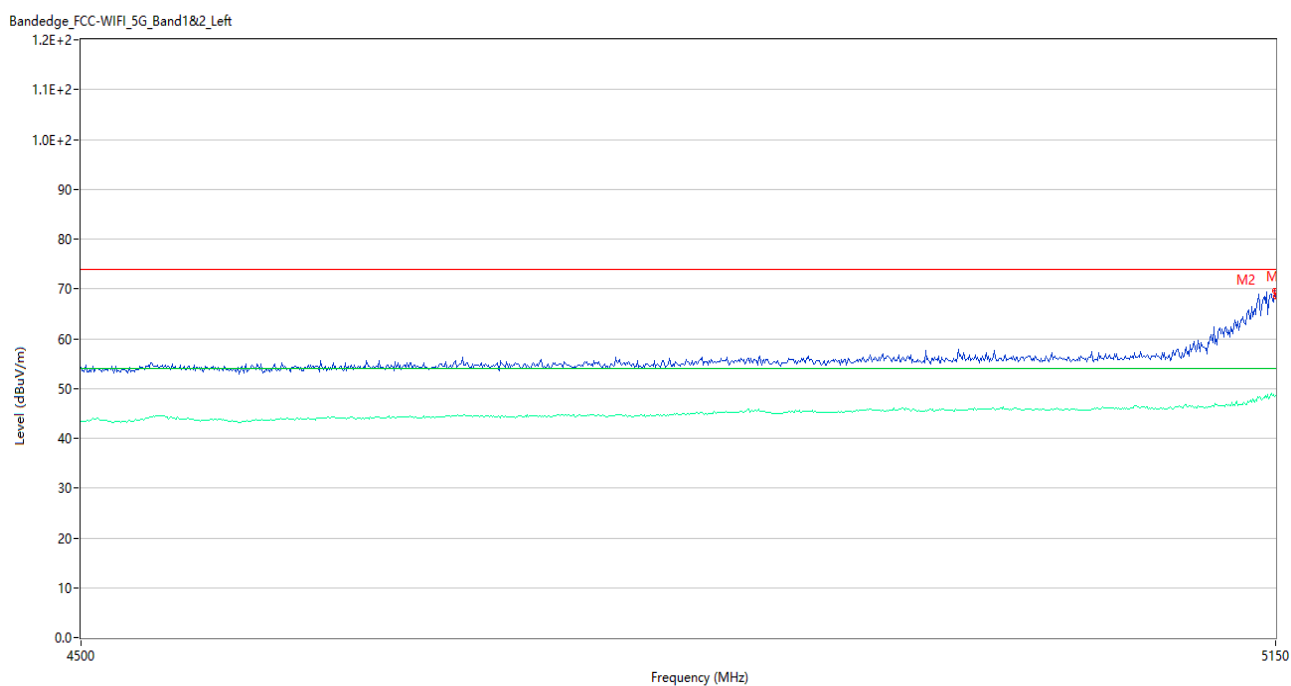
U-NII-1 11ax20 (SU) CH48

Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.07	5.40	74.0	17.93	Peak	187.00	150	Horizontal	Pass
1**	5350.000	46.19	5.40	54.0	7.81	AV	187.00	150	Horizontal	Pass
2	5367.600	58.32	5.45	74.0	15.68	Peak	82.00	150	Horizontal	Pass
2**	5367.600	46.17	5.45	54.0	7.83	AV	82.00	150	Horizontal	Pass

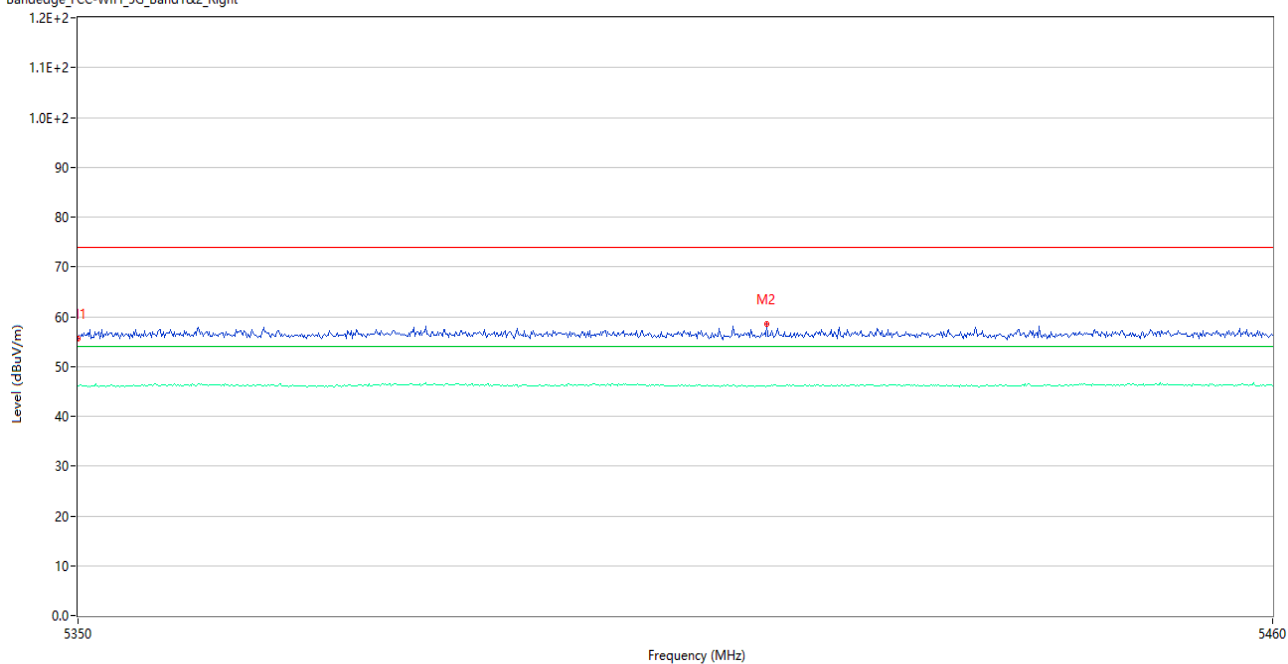
U-NII-1 11ax40 (SU) CH38



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	68.53	5.21	74.0	5.47	Peak	128.98	150	Vertical	Pass
1**	5150.000	48.57	5.21	54.0	5.43	AV	128.98	150	Vertical	Pass
2	5149.350	69.61	5.21	74.0	4.39	Peak	47.00	150	Vertical	Pass
2**	5149.350	48.37	5.21	54.0	5.63	AV	47.00	150	Vertical	Pass

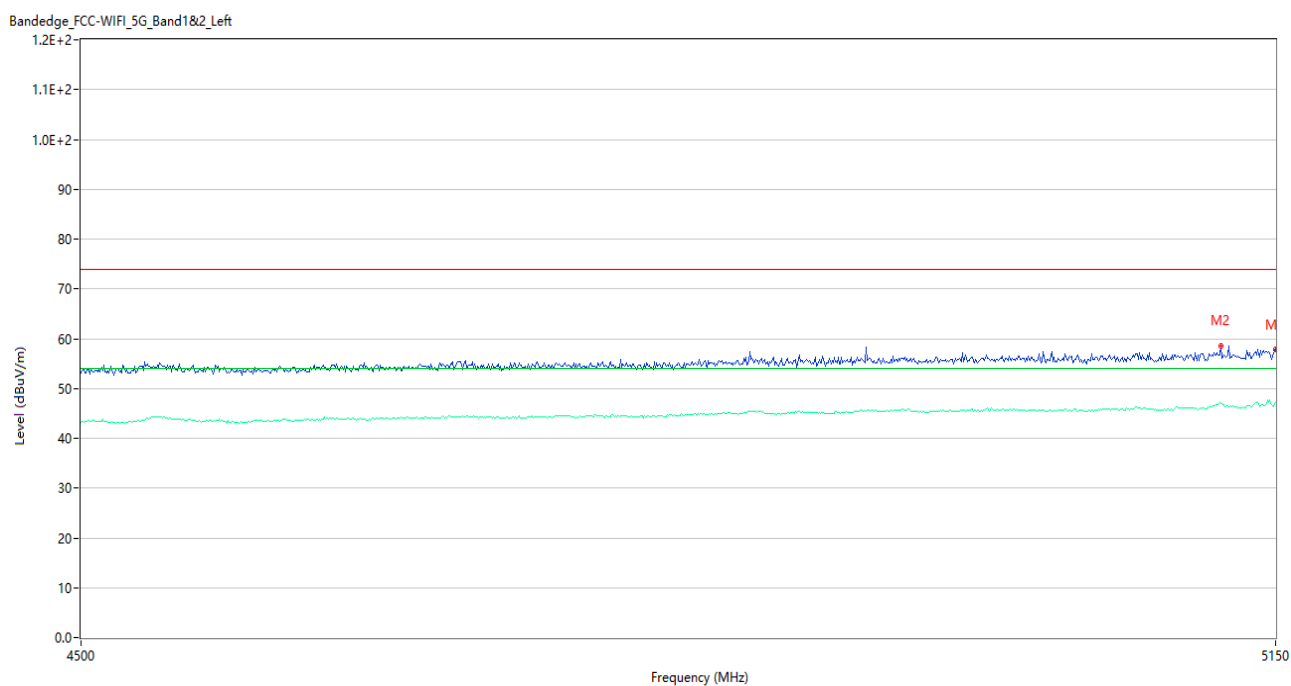
U-NII-1 11ax40 (SU) CH46

Bandedge_FCC-WIFI_5G_Band1&2_Right



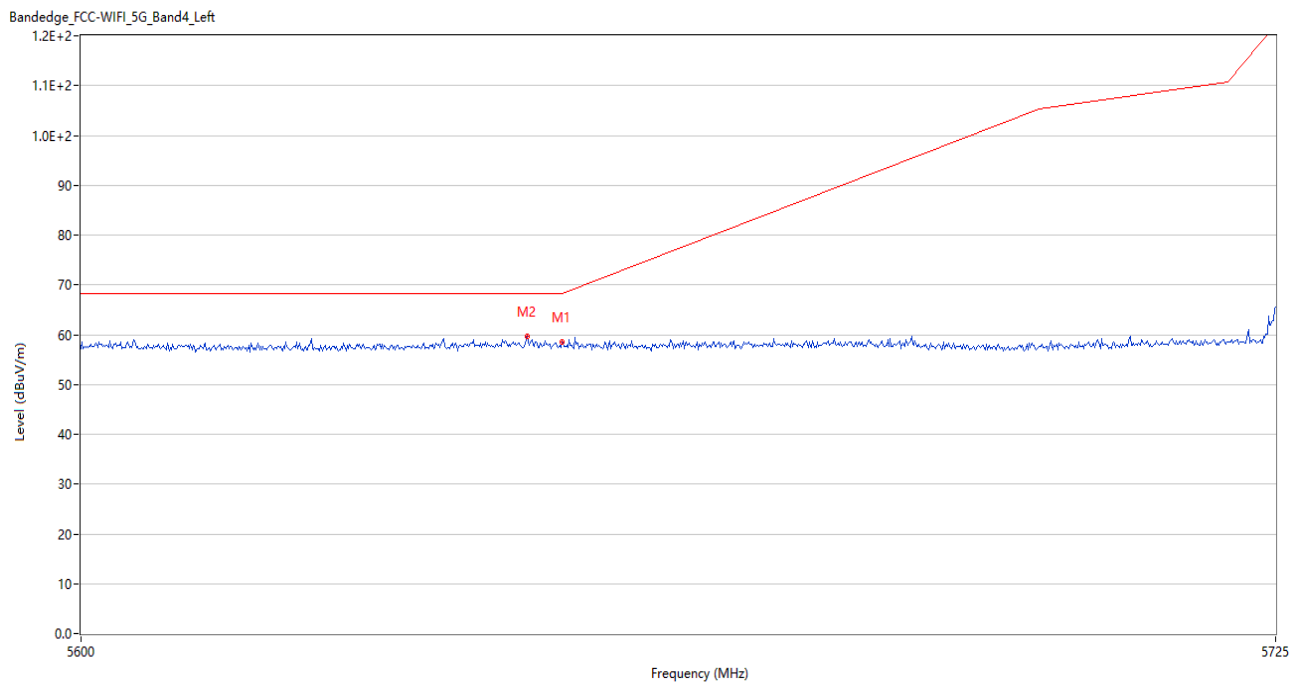
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.60	5.40	74.0	18.40	Peak	315.00	150	Vertical	Pass
1**	5350.000	46.13	5.40	54.0	7.87	AV	315.00	150	Vertical	Pass
2	5413.140	58.51	5.19	74.0	15.49	Peak	305.00	150	Vertical	Pass
2**	5413.140	46.05	5.19	54.0	7.95	AV	305.00	150	Vertical	Pass

U-NII-1 11ax80 (SU) CH42



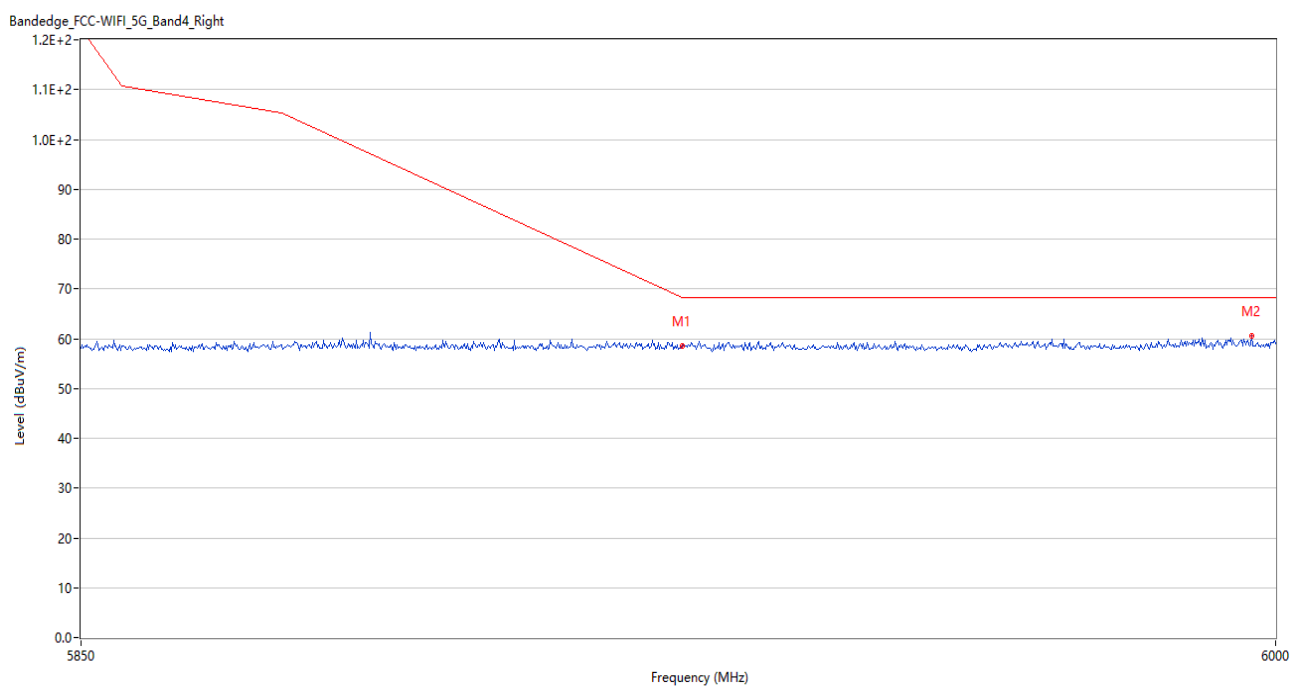
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	57.88	5.21	74.0	16.12	Peak	150.98	150	Vertical	Pass
1**	5150.000	47.15	5.21	54.0	6.85	AV	150.98	150	Vertical	Pass
2	5118.150	58.63	5.15	74.0	15.37	Peak	134.00	150	Vertical	Pass
2**	5118.150	47.00	5.15	54.0	7.00	AV	134.00	150	Vertical	Pass

U-NII-3 11a CH149



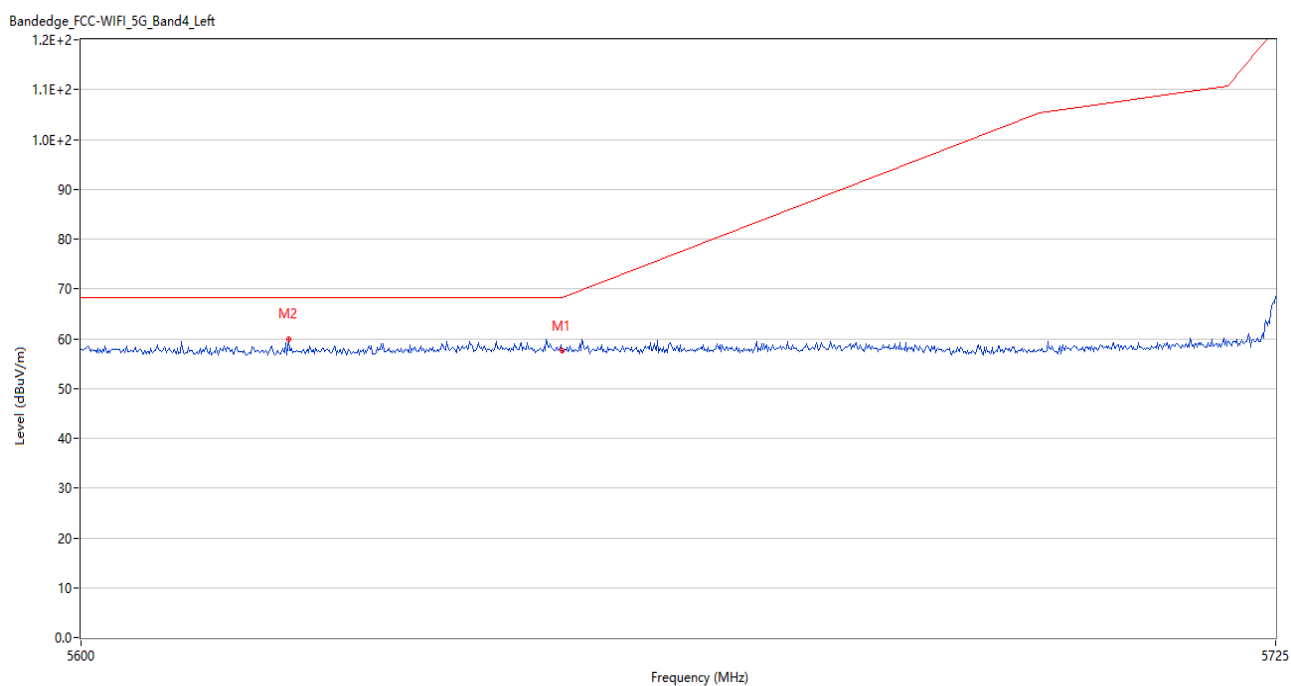
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.53	5.94	68.2	9.67	Peak	207.14	150	Horizontal	Pass
2	5646.375	59.66	5.98	68.2	8.54	Peak	172.00	150	Horizontal	Pass

U-NII-3 11a CH165



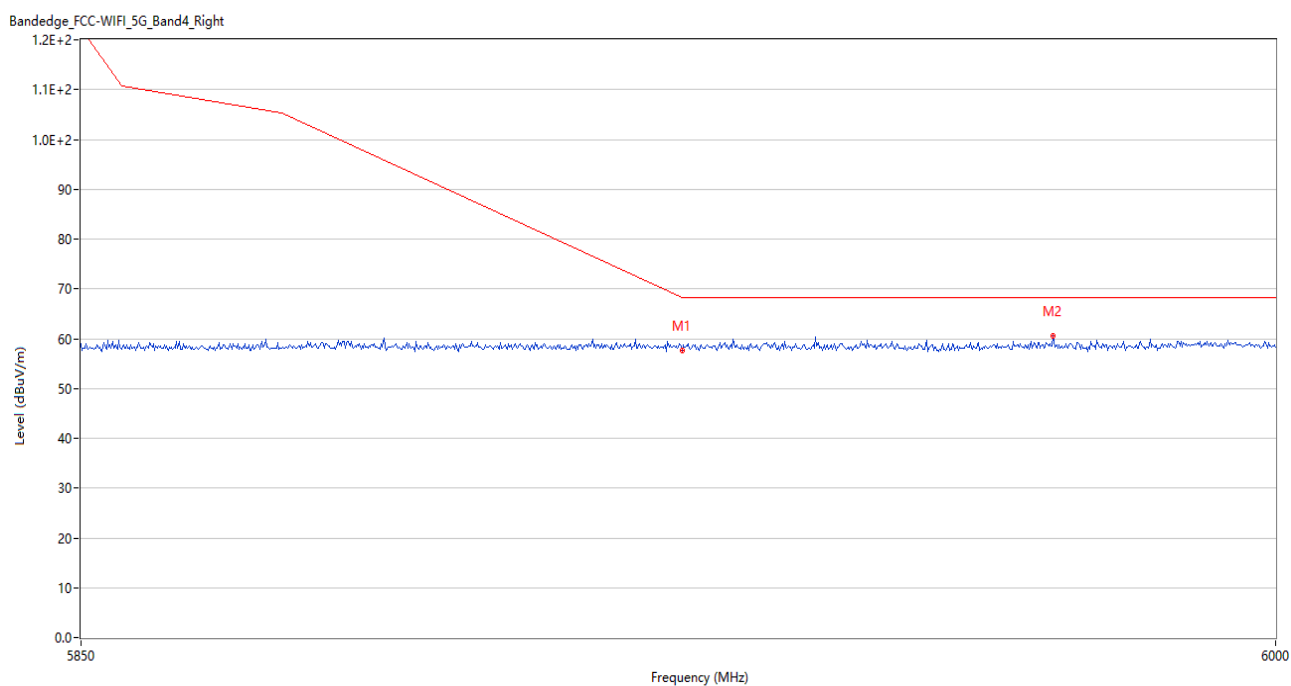
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.51	7.83	68.2	9.69	Peak	359.78	150	Horizontal	Pass
2	5997.000	60.59	7.96	68.2	7.61	Peak	50.00	150	Horizontal	Pass

U-NII-3 11n20 CH149



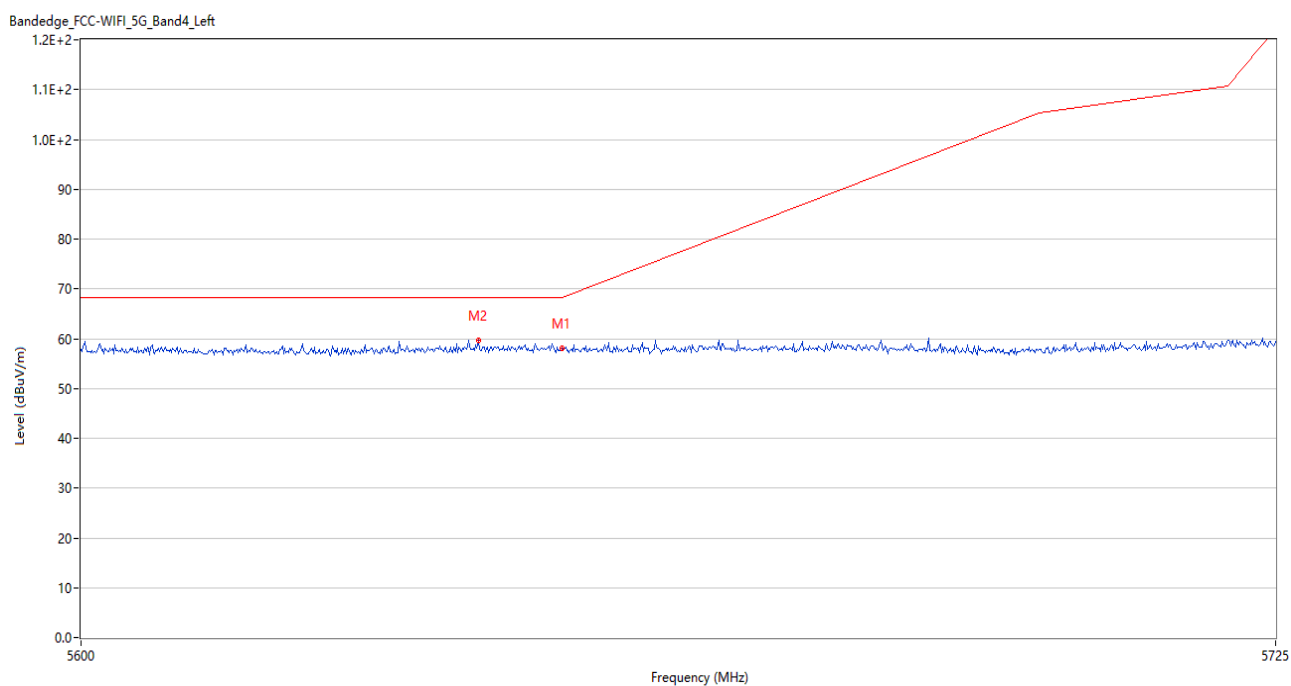
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.63	5.94	68.2	10.57	Peak	30.98	150	Vertical	Pass
2	5621.500	59.84	5.91	68.2	8.36	Peak	360.00	150	Vertical	Pass

U-NII-3 11n20 CH165



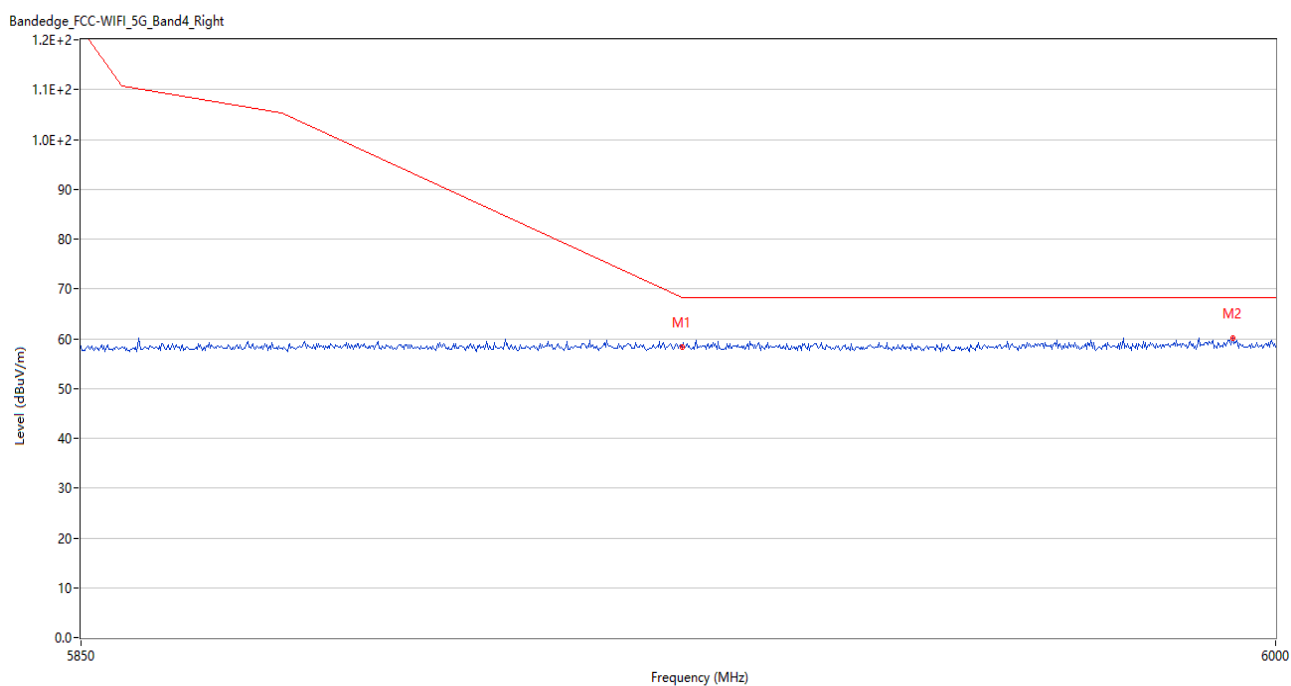
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.59	7.83	68.2	10.61	Peak	241.92	150	Vertical	Pass
2	5971.800	60.46	7.54	68.2	7.74	Peak	304.00	150	Vertical	Pass

U-NII-3 11n40 CH151



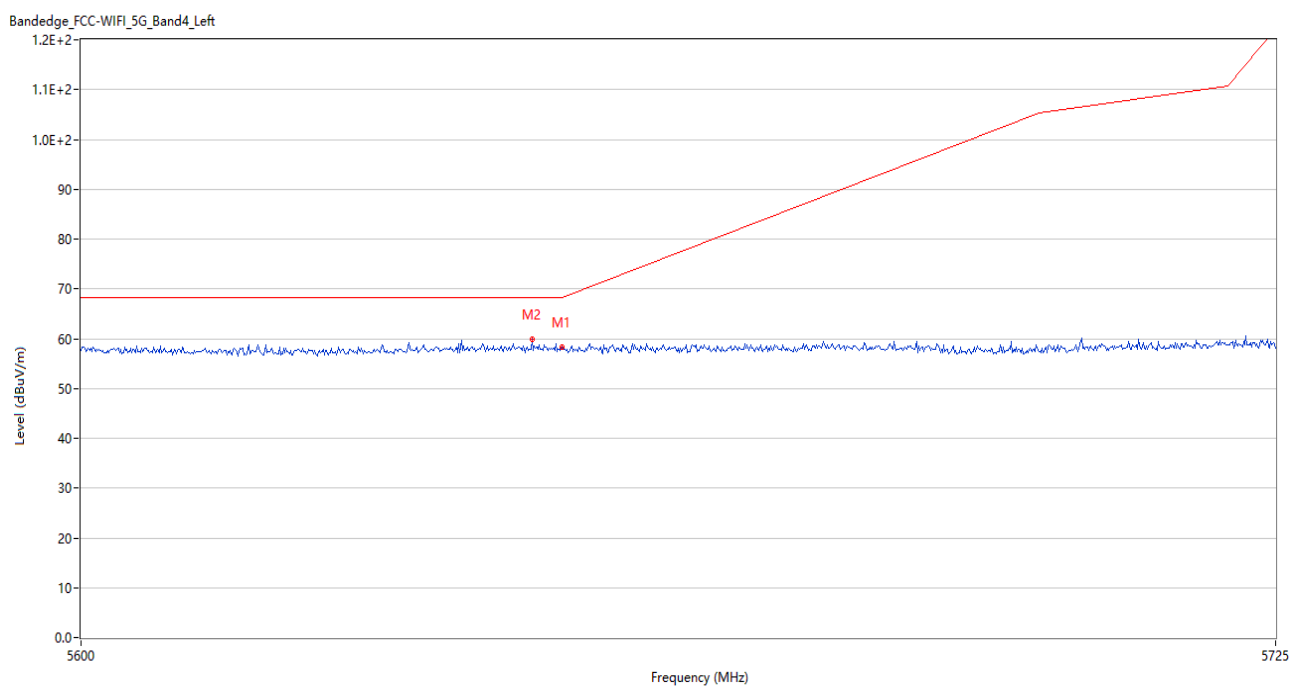
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.05	5.94	68.2	10.15	Peak	1.08	150	Horizontal	Pass
2	5641.250	59.62	5.92	68.2	8.58	Peak	143.00	150	Horizontal	Pass

U-NII-3 11n40 CH159



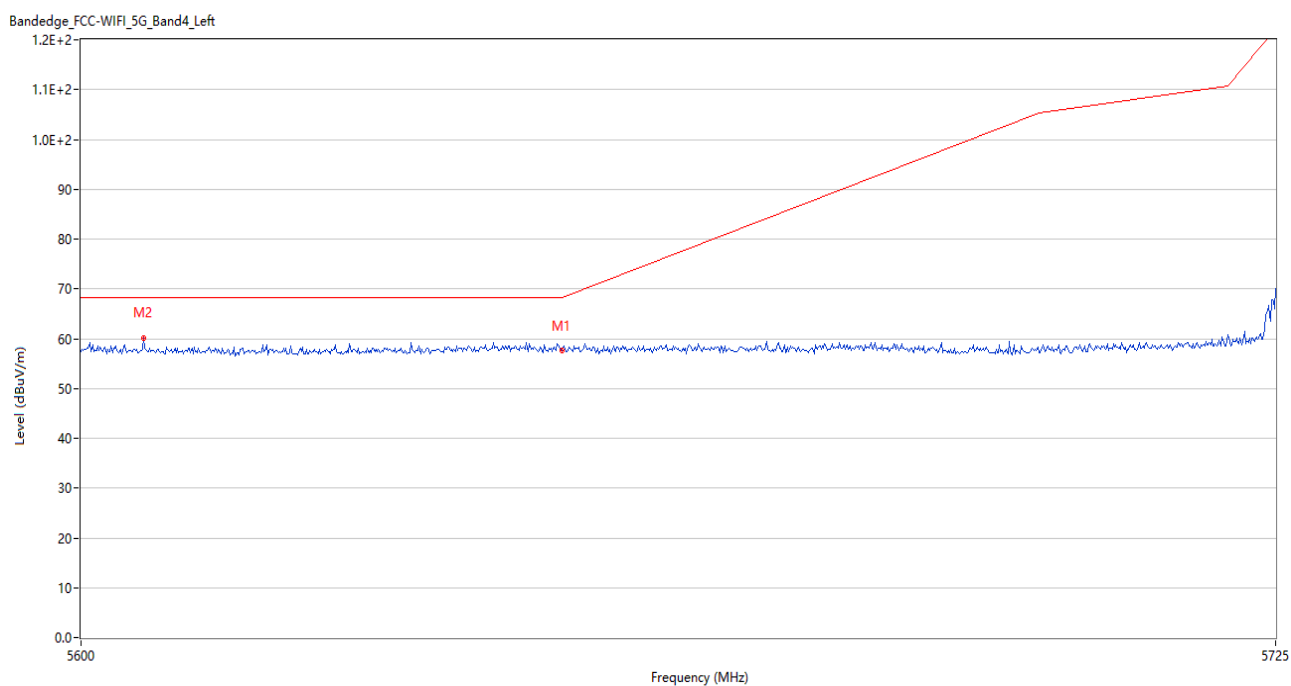
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.26	7.83	68.2	9.94	Peak	186.10	150	Horizontal	Pass
2	5994.600	60.18	8.00	68.2	8.02	Peak	279.00	150	Horizontal	Pass

U-NII-3 11ac80 CH155



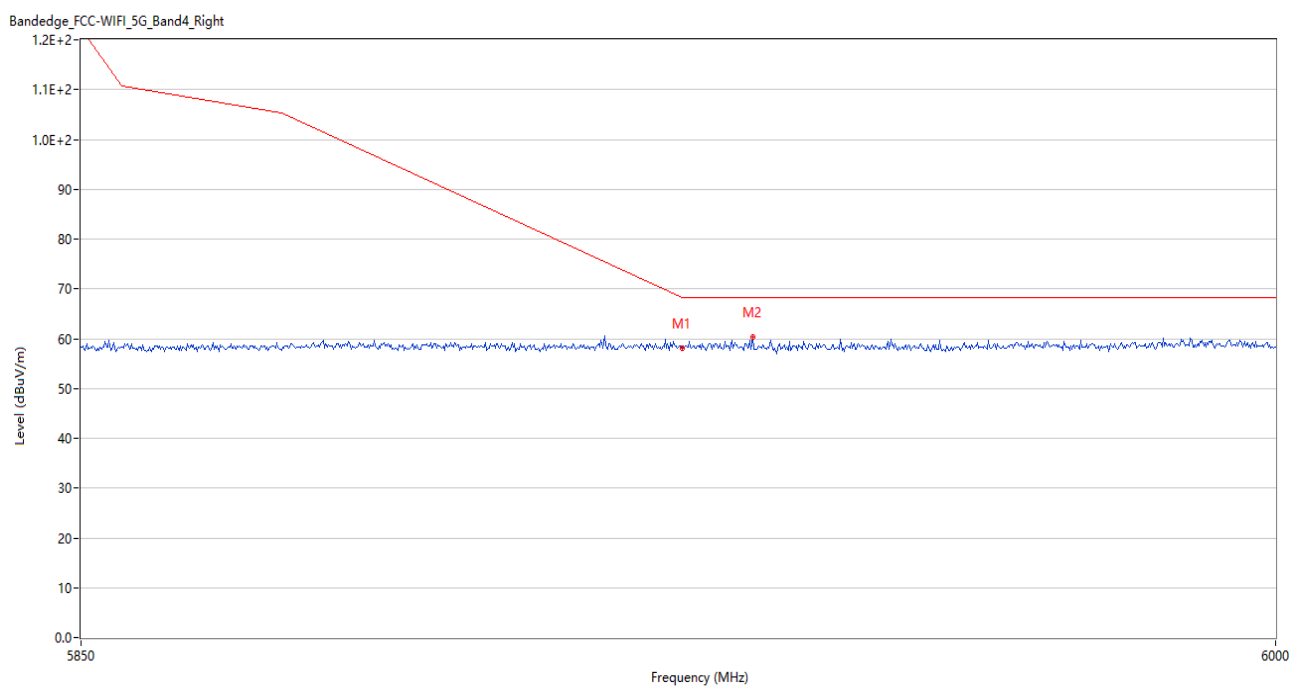
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.26	5.94	68.2	9.94	Peak	131.13	150	Vertical	Pass
2	5646.875	59.79	5.95	68.2	8.41	Peak	2.00	150	Vertical	Pass

U-NII-3 11ax20 (SU) CH149



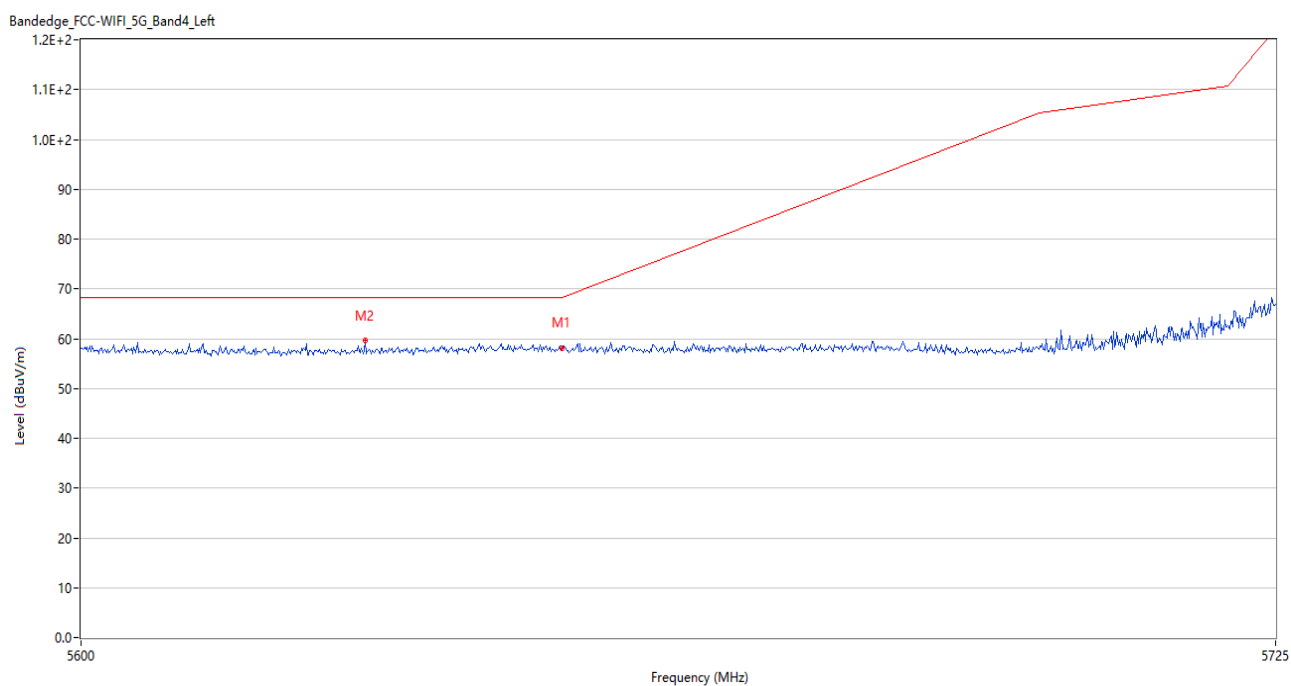
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.63	5.94	68.2	10.57	Peak	0.33	150	Vertical	Pass
2	5606.500	60.04	5.89	68.2	8.16	Peak	75.00	150	Vertical	Pass

U-NII-3 11ax20 (SU) CH165



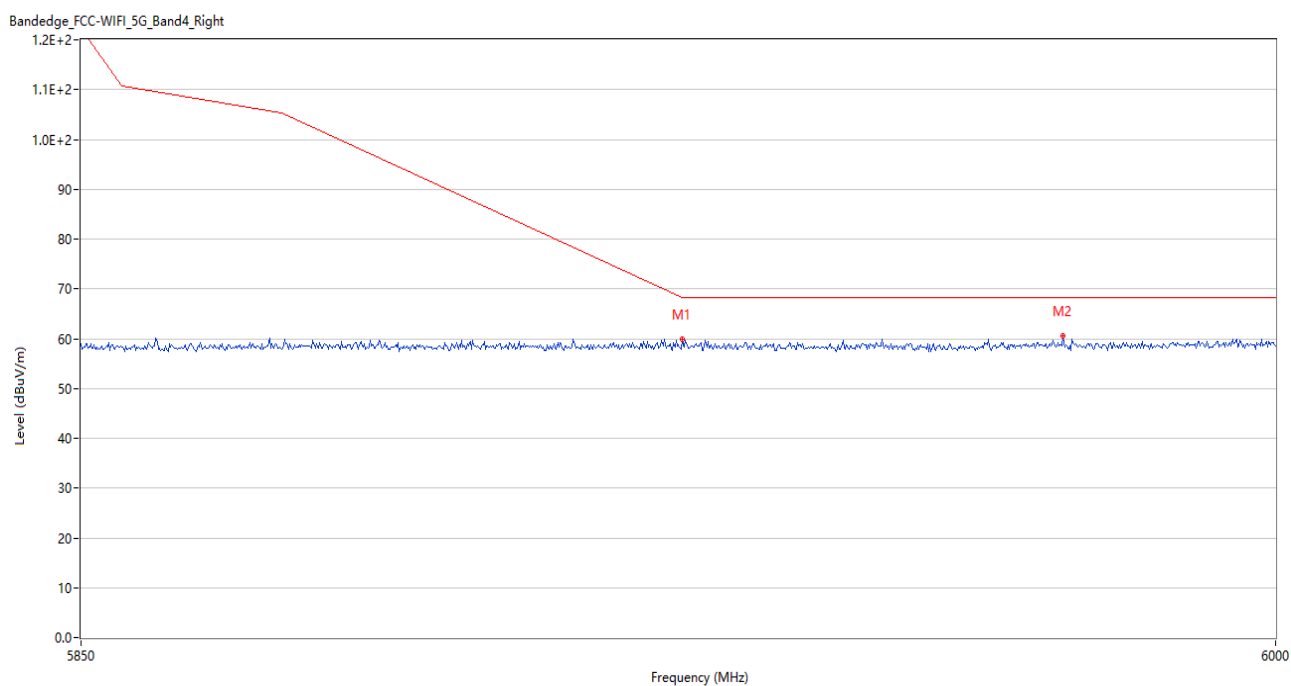
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.00	7.83	68.2	10.20	Peak	359.68	150	Horizontal	Pass
2	5933.850	60.25	7.54	68.2	7.95	Peak	215.00	150	Horizontal	Pass

U-NII-3 11ax40 (SU) CH151



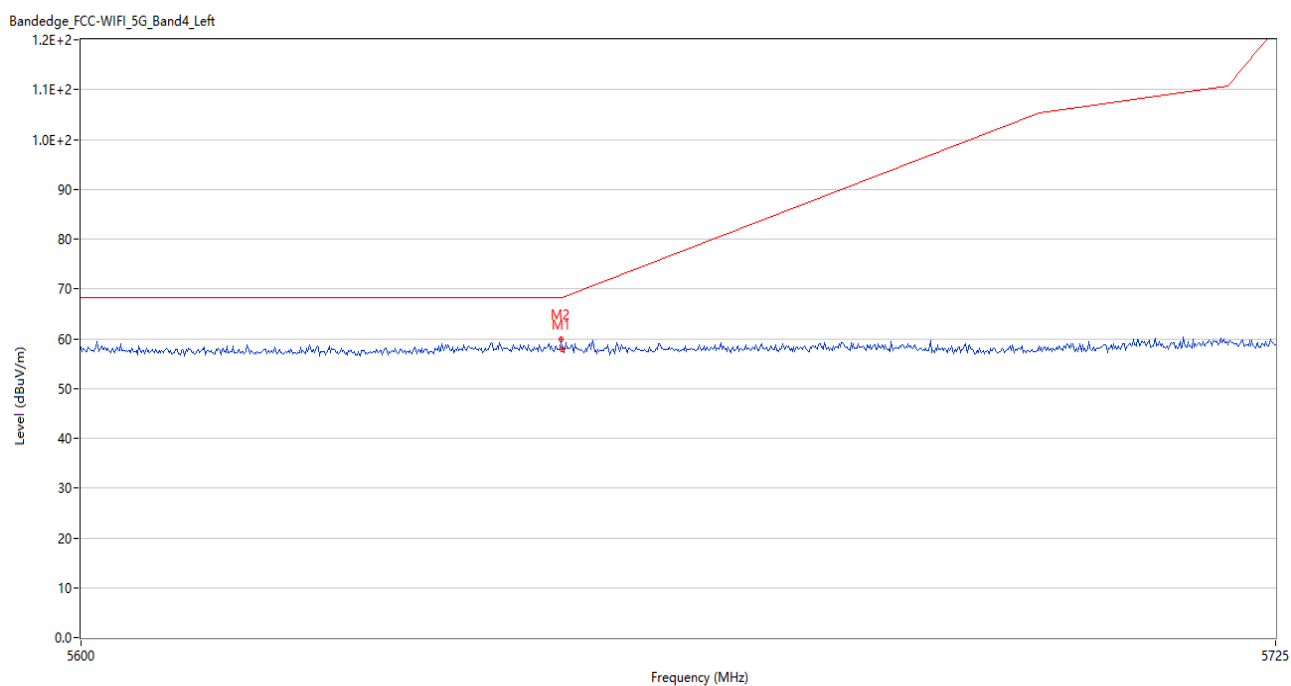
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.18	5.94	68.2	10.02	Peak	354.64	150	Horizontal	Pass
2	5629.500	59.57	5.83	68.2	8.63	Peak	333.00	150	Horizontal	Pass

U-NII-3 11ax40 (SU) CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	59.78	7.83	68.2	8.42	Peak	158.14	150	Vertical	Pass
2	5973.000	60.46	7.50	68.2	7.74	Peak	191.00	150	Vertical	Pass

U-NII-3 11ax80 (SU) CH155

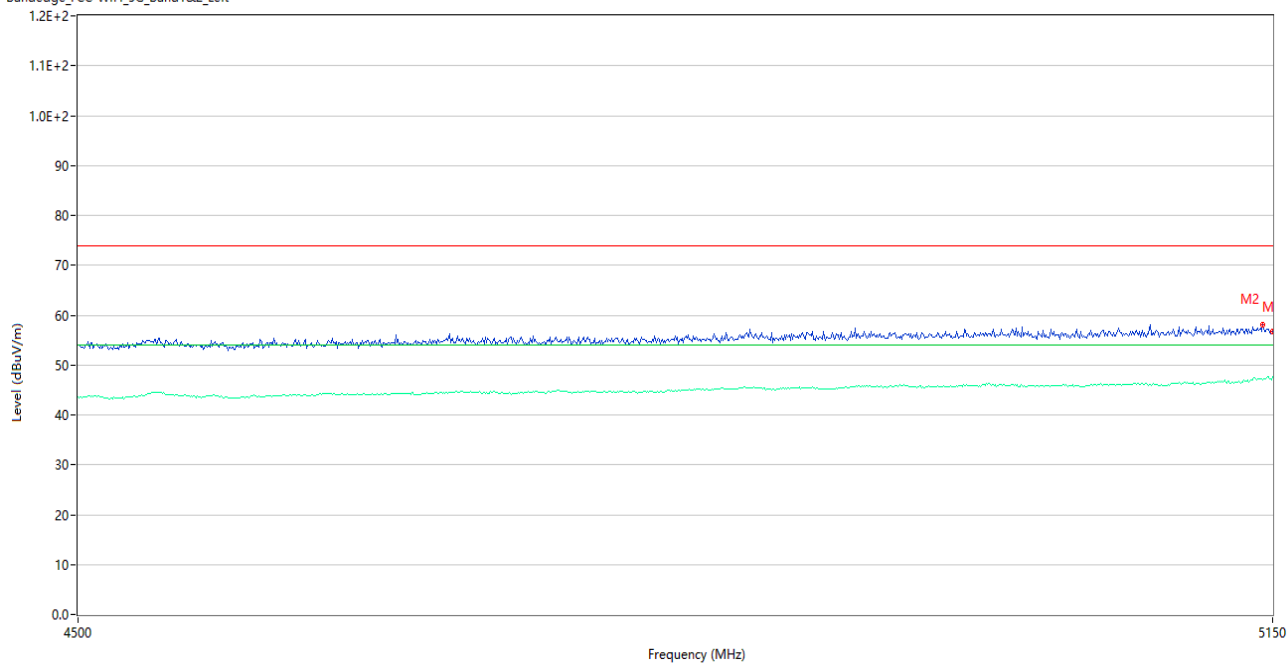


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.83	5.94	68.2	10.37	Peak	0.03	150	Vertical	Pass
2	5649.875	59.92	5.94	68.2	8.28	Peak	66.00	150	Vertical	Pass

Aux. Antenna:

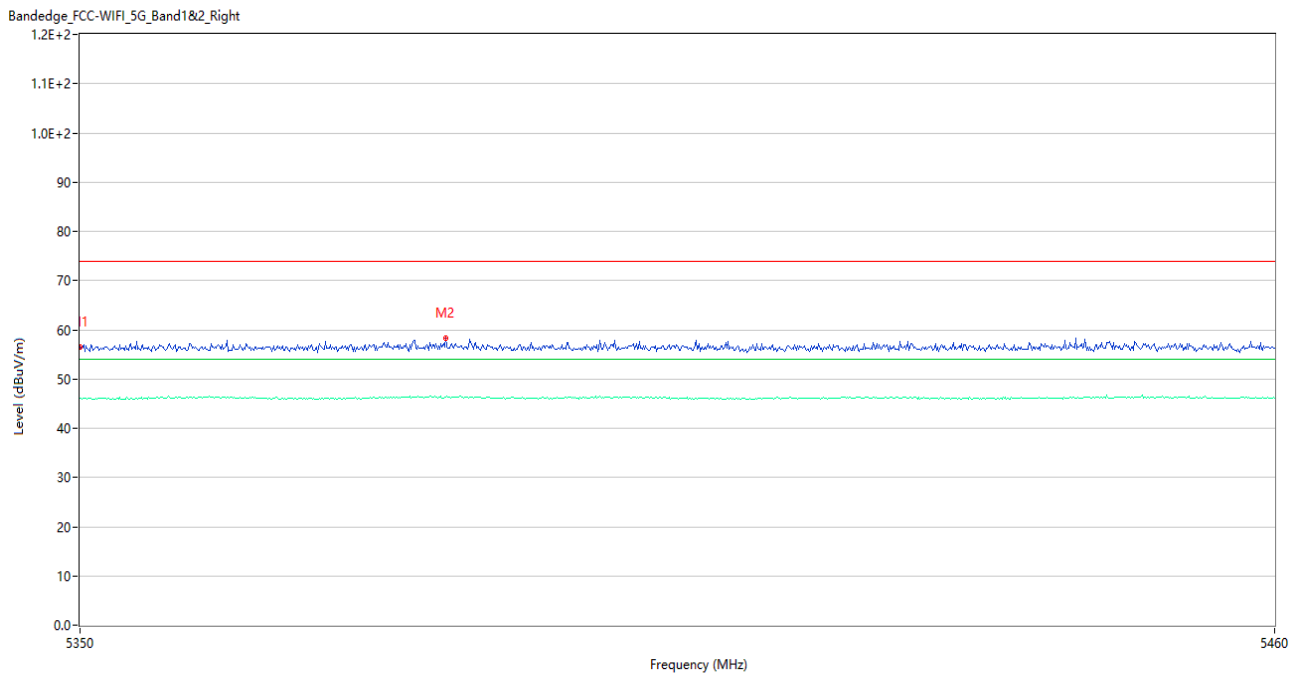
U-NII-1 11a CH36

Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.41	5.21	74.0	17.59	Peak	206.03	150	Vertical	Pass
1**	5150.000	46.56	5.21	54.0	7.44	AV	206.03	150	Vertical	Pass
2	5144.150	58.06	5.42	74.0	15.94	Peak	64.00	150	Vertical	Pass
2**	5144.150	47.05	5.42	54.0	6.95	AV	64.00	150	Vertical	Pass

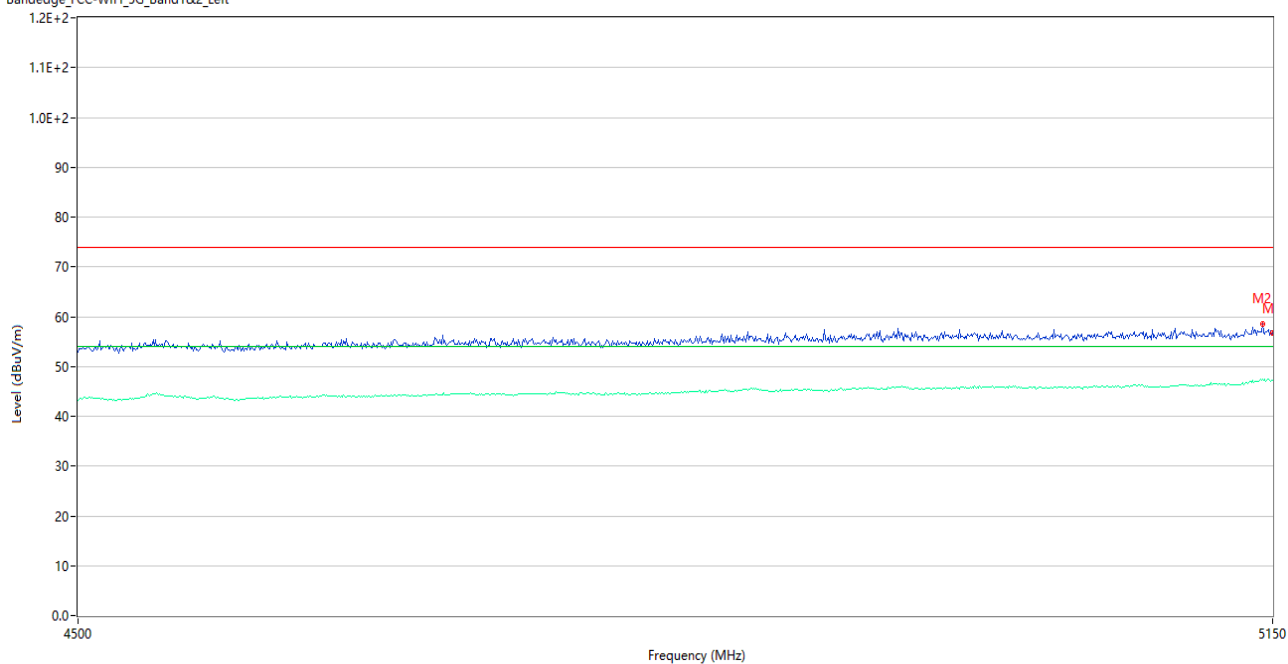
U-NII-1 11a CH48



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.47	5.40	74.0	17.53	Peak	99.00	150	Horizontal	Pass
1**	5350.000	46.15	5.40	54.0	7.85	AV	99.00	150	Horizontal	Pass
2	5383.440	58.39	5.71	74.0	15.61	Peak	2.00	150	Horizontal	Pass
2**	5383.440	46.31	5.71	54.0	7.69	AV	2.00	150	Horizontal	Pass

U-NII-1 11n20 CH36

Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.70	5.21	74.0	17.30	Peak	326.95	150	Vertical	Pass
1**	5150.000	47.26	5.21	54.0	6.74	AV	326.95	150	Vertical	Pass
2	5144.150	58.63	5.42	74.0	15.37	Peak	56.00	150	Vertical	Pass
2**	5144.150	47.38	5.42	54.0	6.62	AV	56.00	150	Vertical	Pass

U-NII-1 11n20 CH48

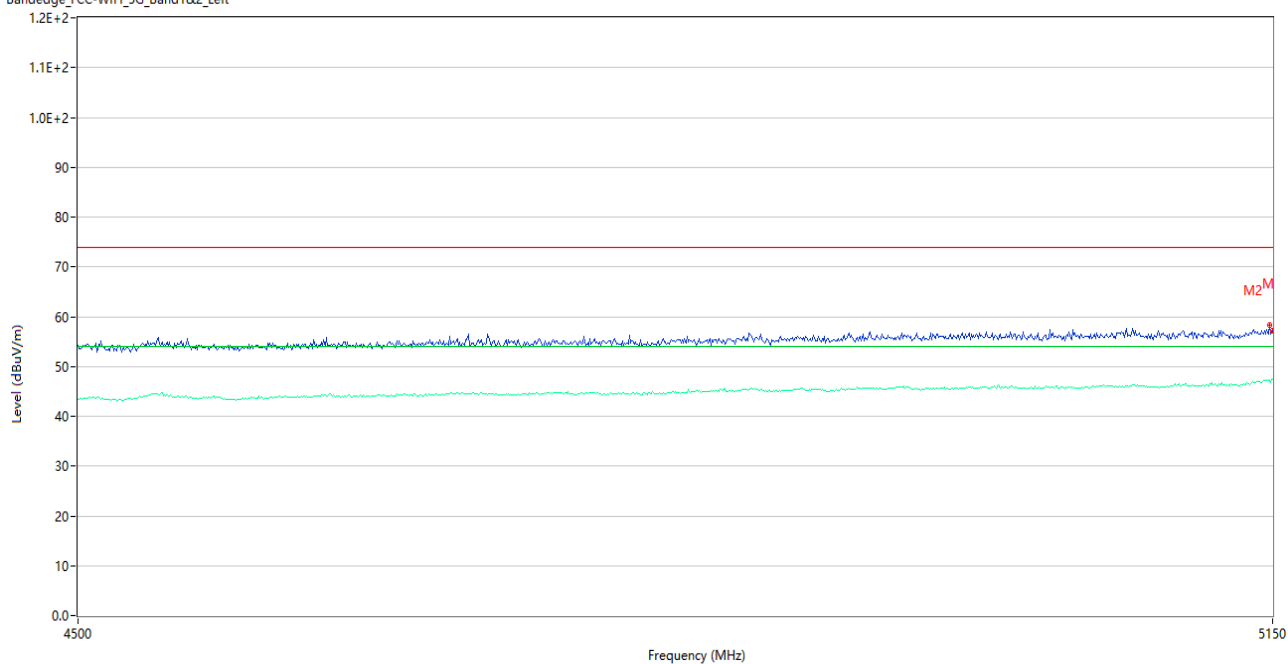
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	57.46	5.40	74.0	16.54	Peak	174.00	150	Vertical	Pass
1**	5350.000	46.08	5.40	54.0	7.92	AV	174.00	150	Vertical	Pass
2	5384.540	58.66	5.71	74.0	15.34	Peak	39.00	150	Vertical	Pass
2**	5384.540	46.40	5.71	54.0	7.60	AV	39.00	150	Vertical	Pass

U-NII-1 11n40 CH38

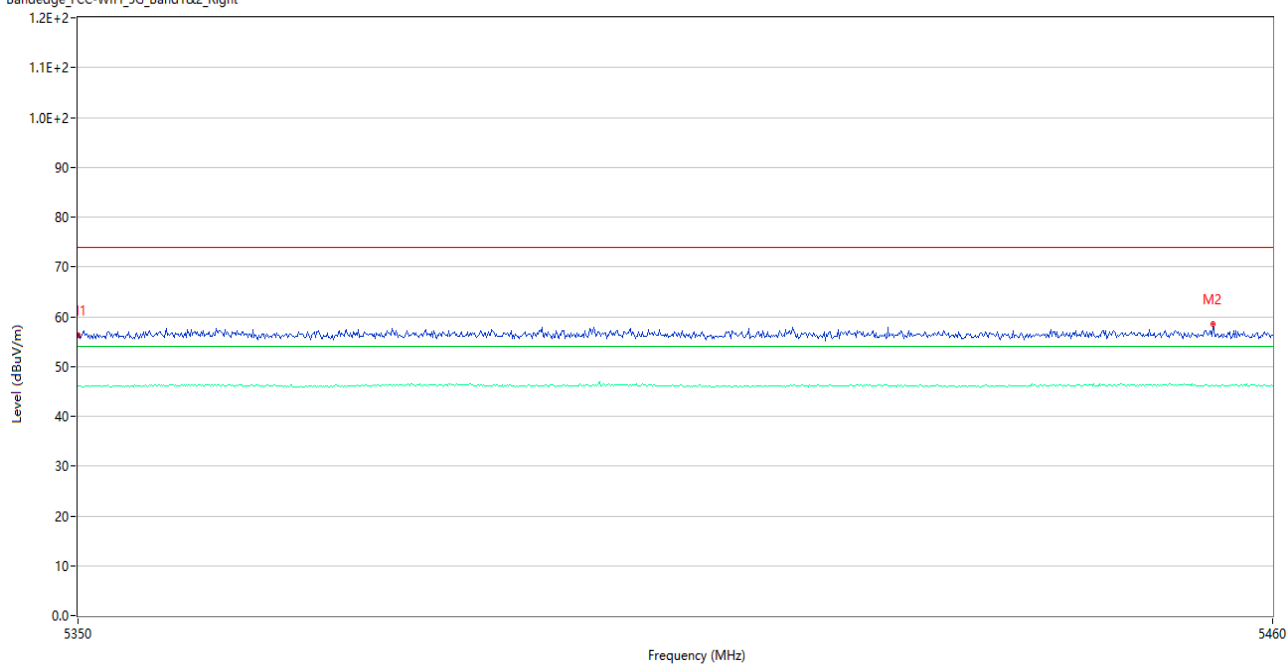
Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	57.07	5.21	74.0	16.93	Peak	226.96	150	Vertical	Pass
1**	5150.000	47.53	5.21	54.0	6.47	AV	226.96	150	Vertical	Pass
2	5148.050	58.23	5.26	74.0	15.77	Peak	360.00	150	Vertical	Pass
2**	5148.050	47.32	5.26	54.0	6.68	AV	360.00	150	Vertical	Pass

U-NII-1 11n40 CH46

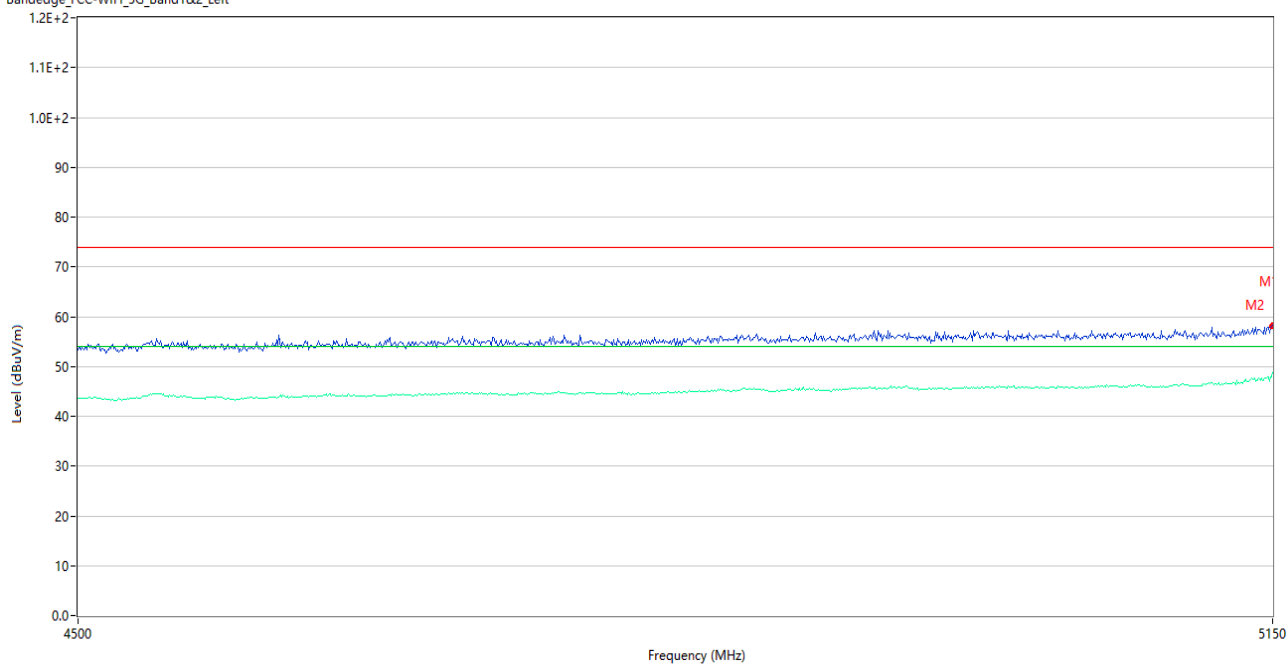
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.31	5.40	74.0	17.69	Peak	294.00	150	Vertical	Pass
1**	5350.000	46.09	5.40	54.0	7.91	AV	294.00	150	Vertical	Pass
2	5454.500	58.60	5.48	74.0	15.40	Peak	82.00	150	Vertical	Pass
2**	5454.500	46.19	5.48	54.0	7.81	AV	82.00	150	Vertical	Pass

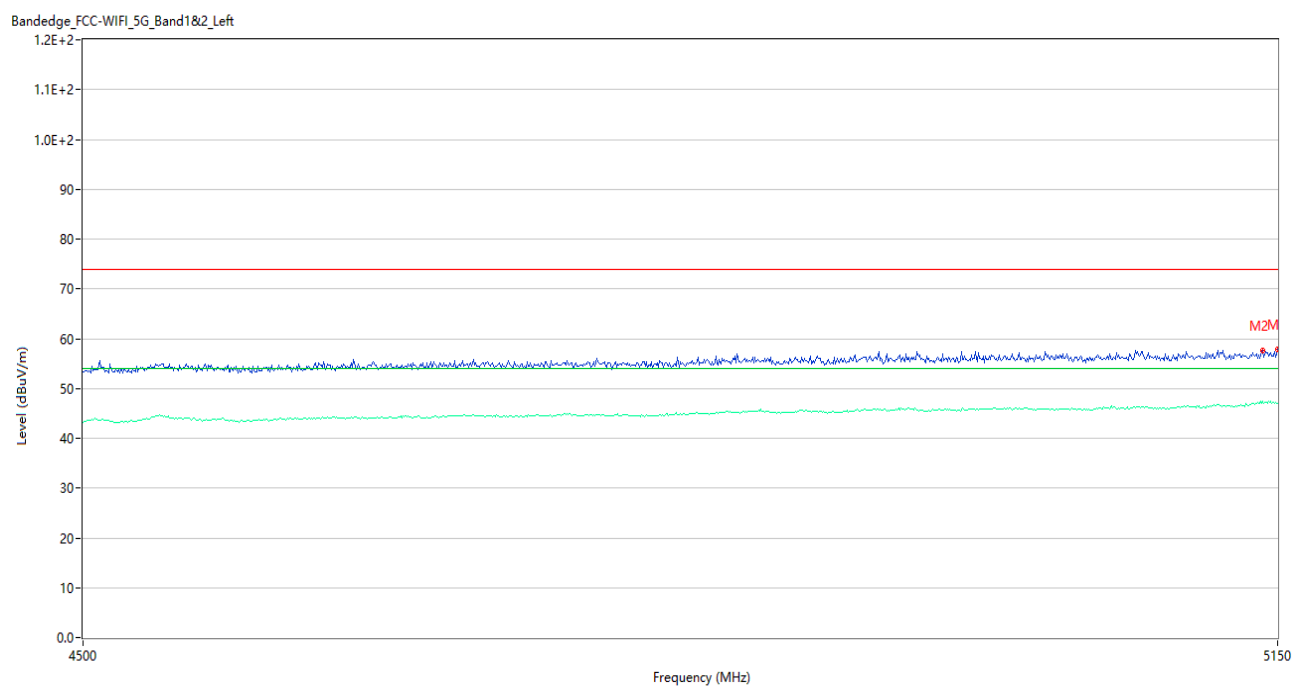
U-NII-1 11ac80 CH42

Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.39	5.21	74.0	15.61	Peak	62.00	150	Vertical	Pass
1**	5150.000	48.91	5.21	54.0	5.09	AV	62.00	150	Vertical	Pass
2	5149.350	58.00	5.21	74.0	16.00	Peak	43.00	150	Vertical	Pass
2**	5149.350	47.95	5.21	54.0	6.05	AV	43.00	150	Vertical	Pass

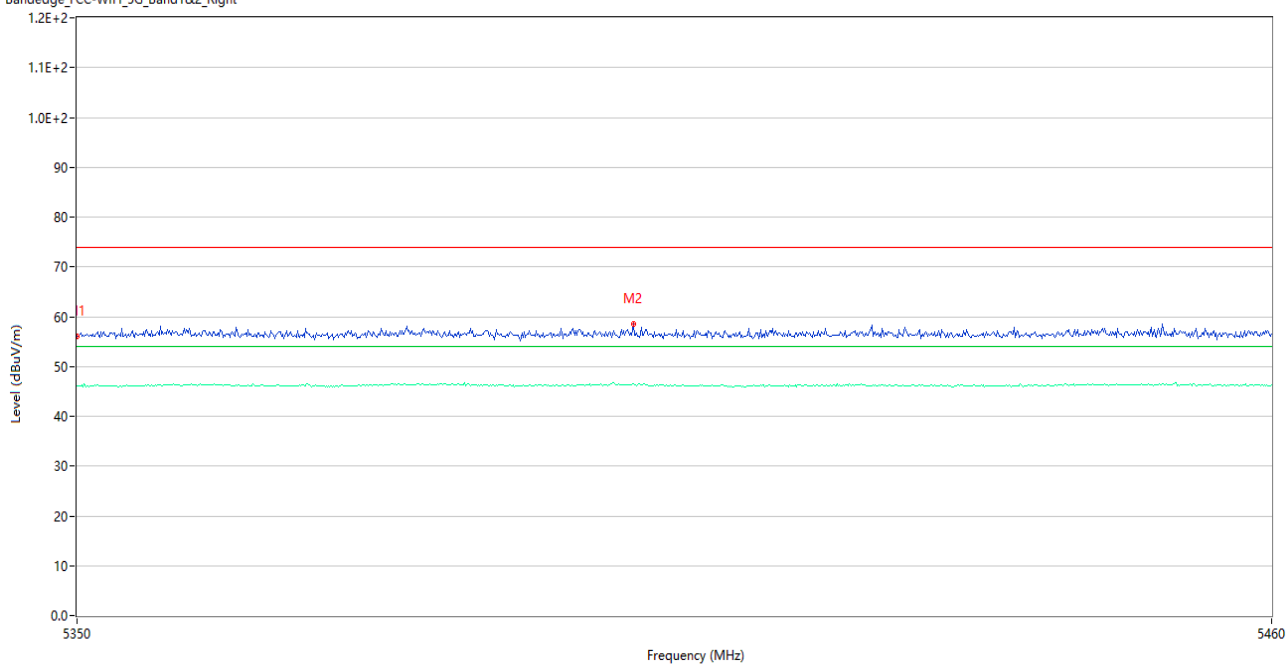
U-NII-1 11ax20 (SU) CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	57.76	5.21	74.0	16.24	Peak	50.00	150	Vertical	Pass
1**	5150.000	47.08	5.21	54.0	6.92	AV	50.00	150	Vertical	Pass
2	5141.550	57.73	5.55	74.0	16.27	Peak	212.00	150	Vertical	Pass
2**	5141.550	47.52	5.55	54.0	6.48	AV	212.00	150	Vertical	Pass

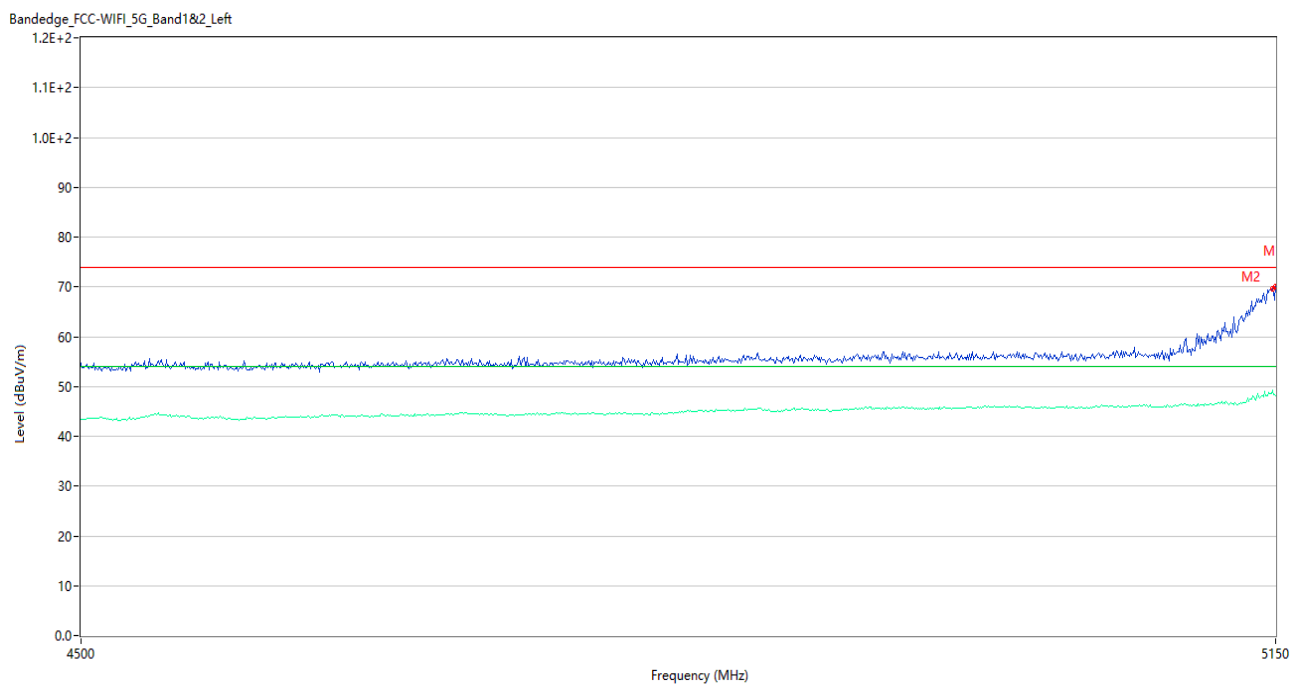
U-NII-1 11ax20 (SU) CH48

Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.07	5.40	74.0	17.93	Peak	0.00	150	Vertical	Pass
1**	5350.000	45.99	5.40	54.0	8.01	AV	0.00	150	Vertical	Pass
2	5400.930	58.62	5.69	74.0	15.38	Peak	98.00	150	Vertical	Pass
2**	5400.930	46.54	5.69	54.0	7.46	AV	98.00	150	Vertical	Pass

U-NII-1 11ax40 (SU) CH38



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	70.07	5.21	74.0	3.93	Peak	90.01	150	Vertical	Pass
1**	5150.000	48.07	5.21	54.0	5.93	AV	90.01	150	Vertical	Pass
2	5148.050	69.59	5.26	74.0	4.41	Peak	64.00	150	Vertical	Pass
2**	5148.050	49.27	5.26	54.0	4.73	AV	64.00	150	Vertical	Pass

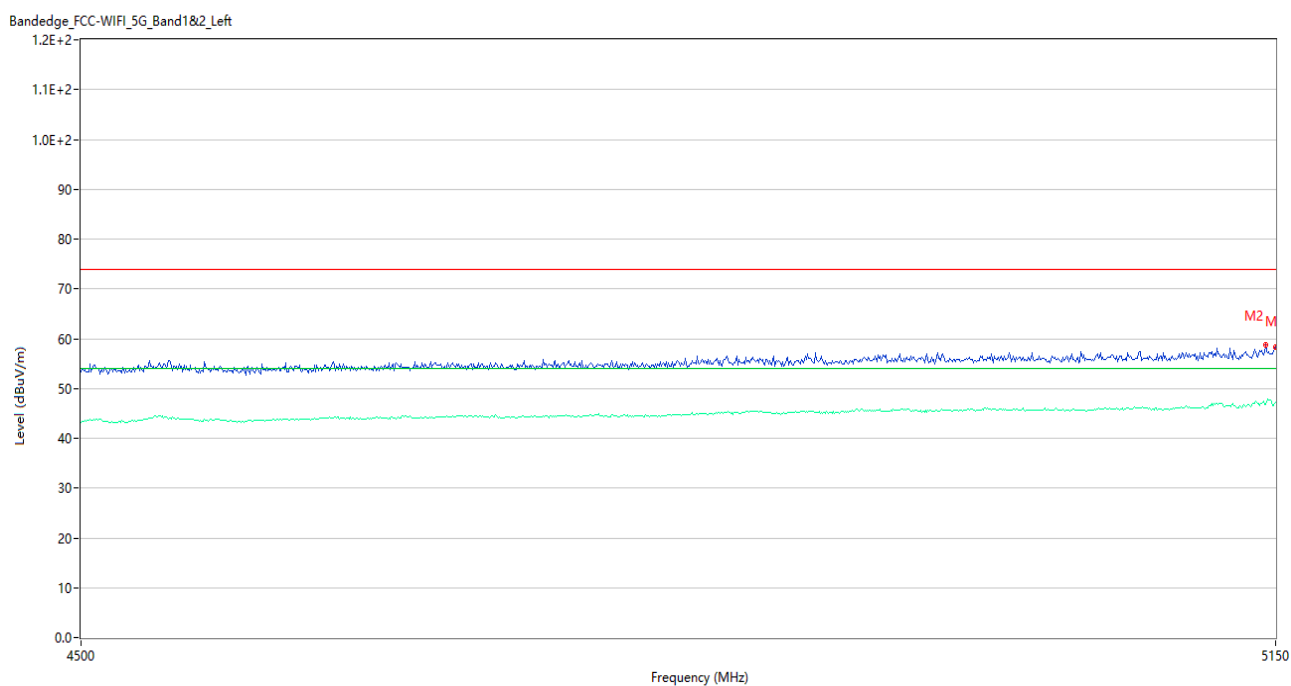
U-NII-1 11ax40 (SU) CH46

Bandedge_FCC-WIFI_5G_Band1&2_Right



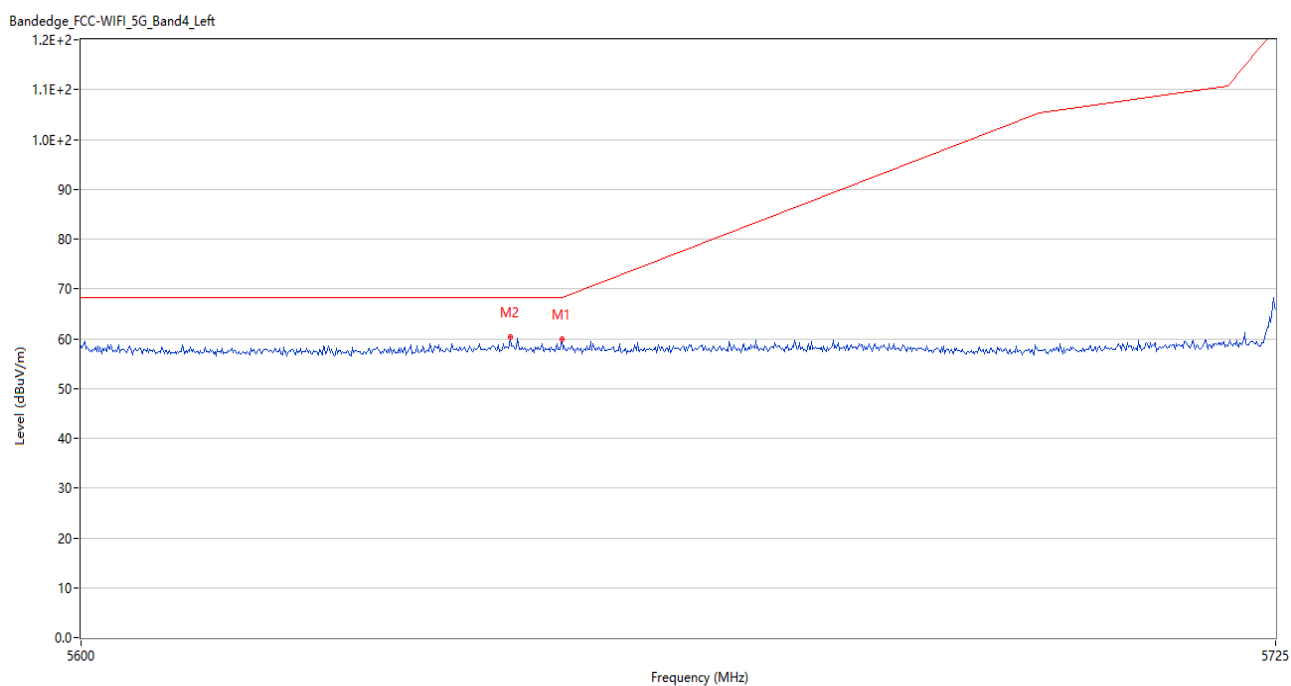
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.95	5.40	74.0	18.05	Peak	278.00	150	Horizontal	Pass
1**	5350.000	46.06	5.40	54.0	7.94	AV	278.00	150	Horizontal	Pass
2	5443.280	58.25	5.54	74.0	15.75	Peak	5.00	150	Horizontal	Pass
2**	5443.280	46.29	5.54	54.0	7.71	AV	5.00	150	Horizontal	Pass

U-NII-1 11ax80 (SU) CH42



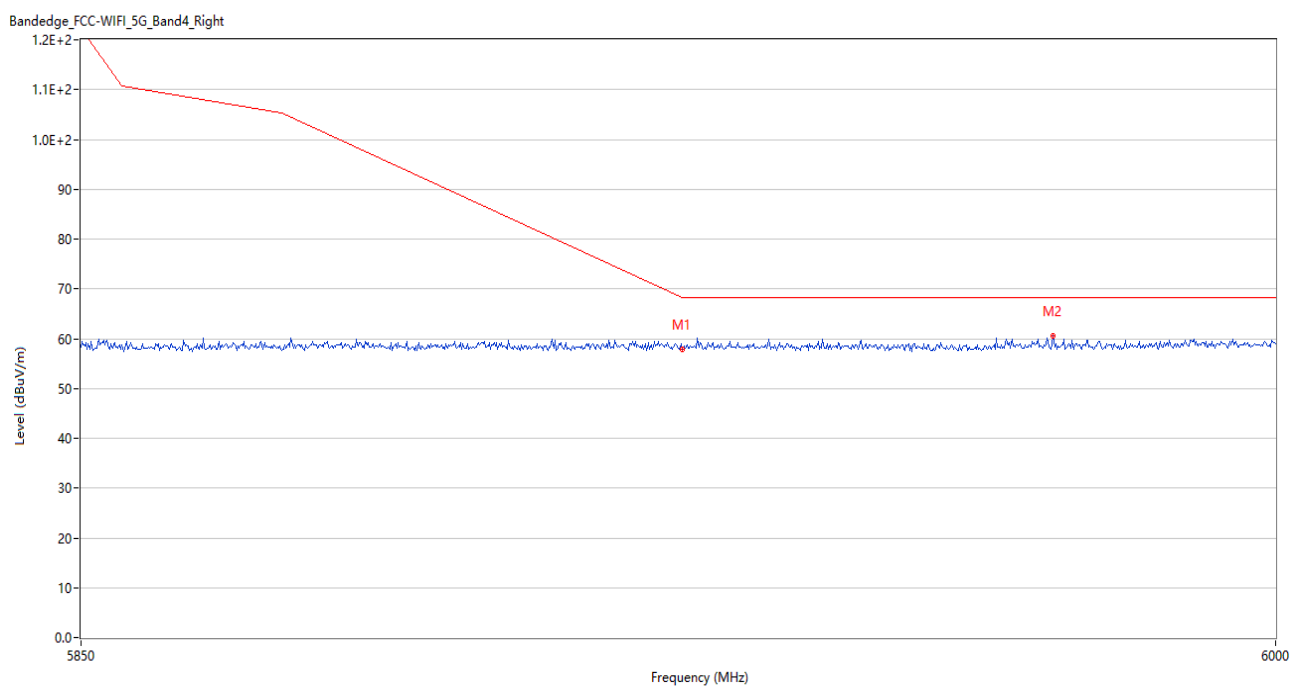
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.40	5.21	74.0	15.60	Peak	48.00	150	Vertical	Pass
1**	5150.000	47.33	5.21	54.0	6.67	AV	48.00	150	Vertical	Pass
2	5144.150	58.67	5.42	74.0	15.33	Peak	131.00	150	Vertical	Pass
2**	5144.150	46.89	5.42	54.0	7.11	AV	131.00	150	Vertical	Pass

U-NII-3 11a CH149



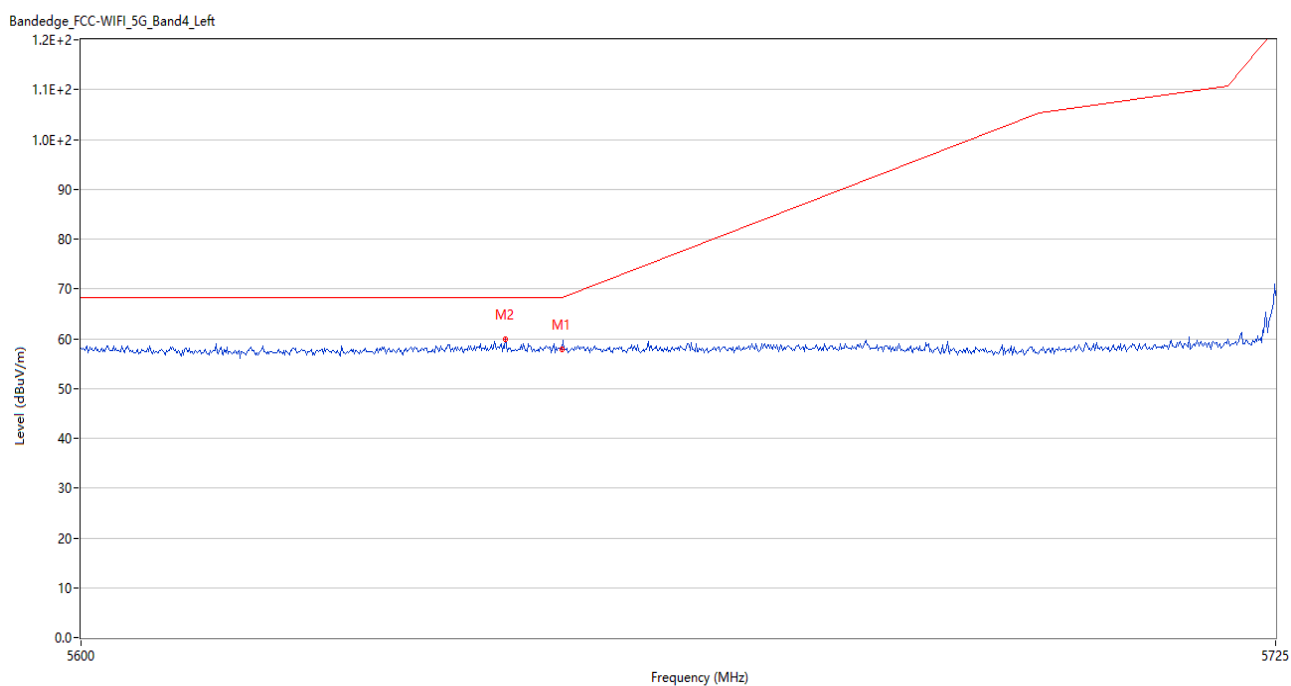
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	59.80	5.94	68.2	8.40	Peak	358.63	150	Vertical	Pass
2	5644.625	60.27	6.02	68.2	7.93	Peak	59.00	150	Vertical	Pass

U-NII-3 11a CH165



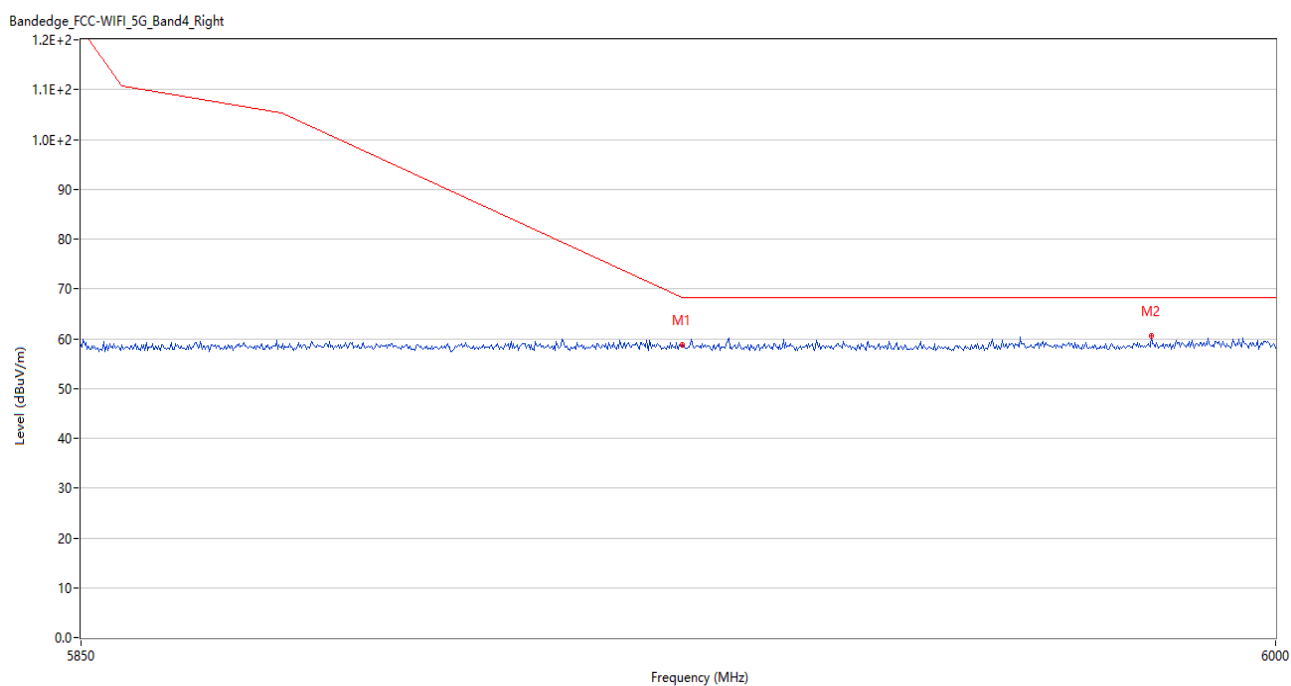
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.90	7.83	68.2	10.30	Peak	59.23	150	Vertical	Pass
2	5971.800	60.63	7.54	68.2	7.57	Peak	246.00	150	Vertical	Pass

U-NII-3 11n20 CH149



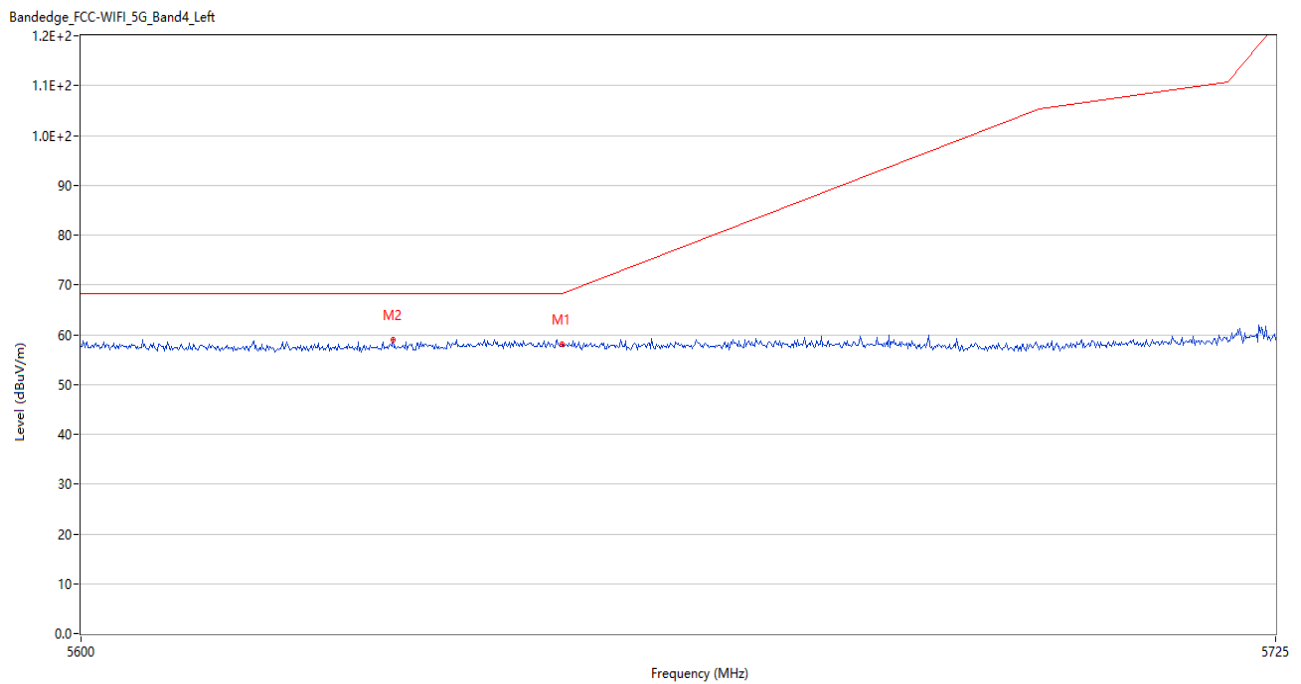
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.90	5.94	68.2	10.30	Peak	142.11	150	Vertical	Pass
2	5644.125	59.83	6.02	68.2	8.37	Peak	341.00	150	Vertical	Pass

U-NII-3 11n20 CH165



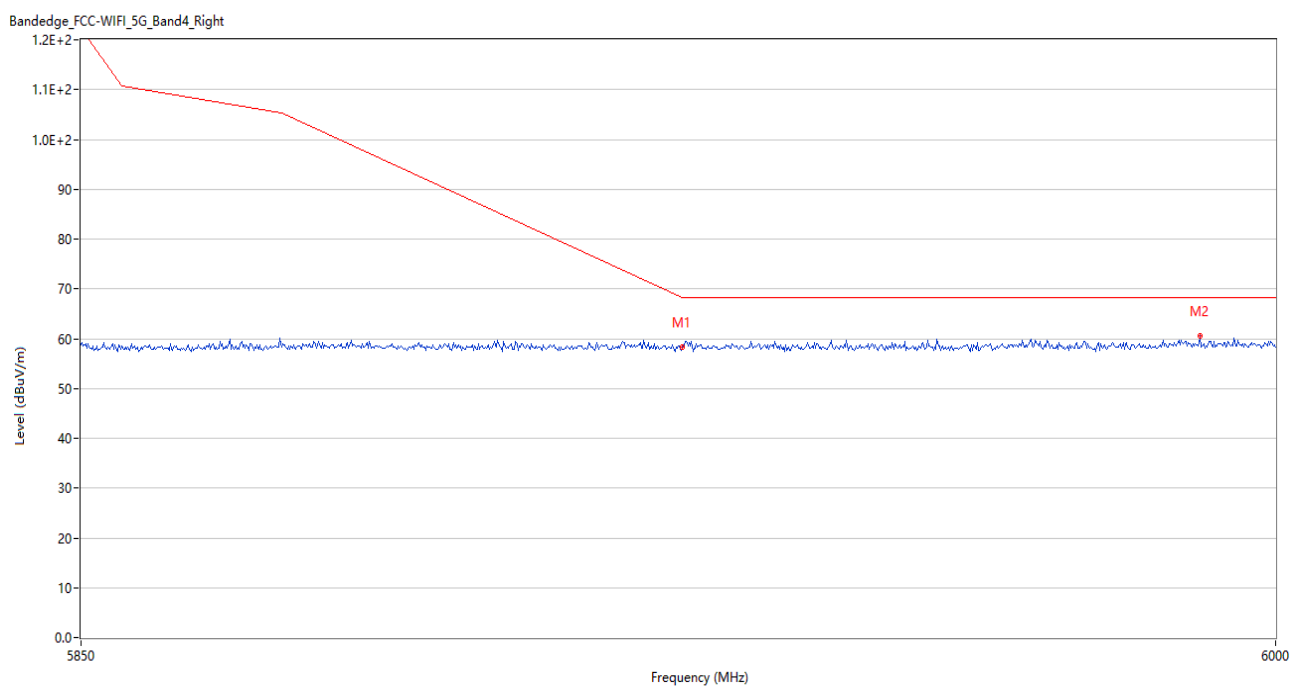
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.79	7.83	68.2	9.41	Peak	6.27	150	Horizontal	Pass
2	5984.250	60.50	7.56	68.2	7.70	Peak	352.00	150	Horizontal	Pass

U-NII-3 11n40 CH151



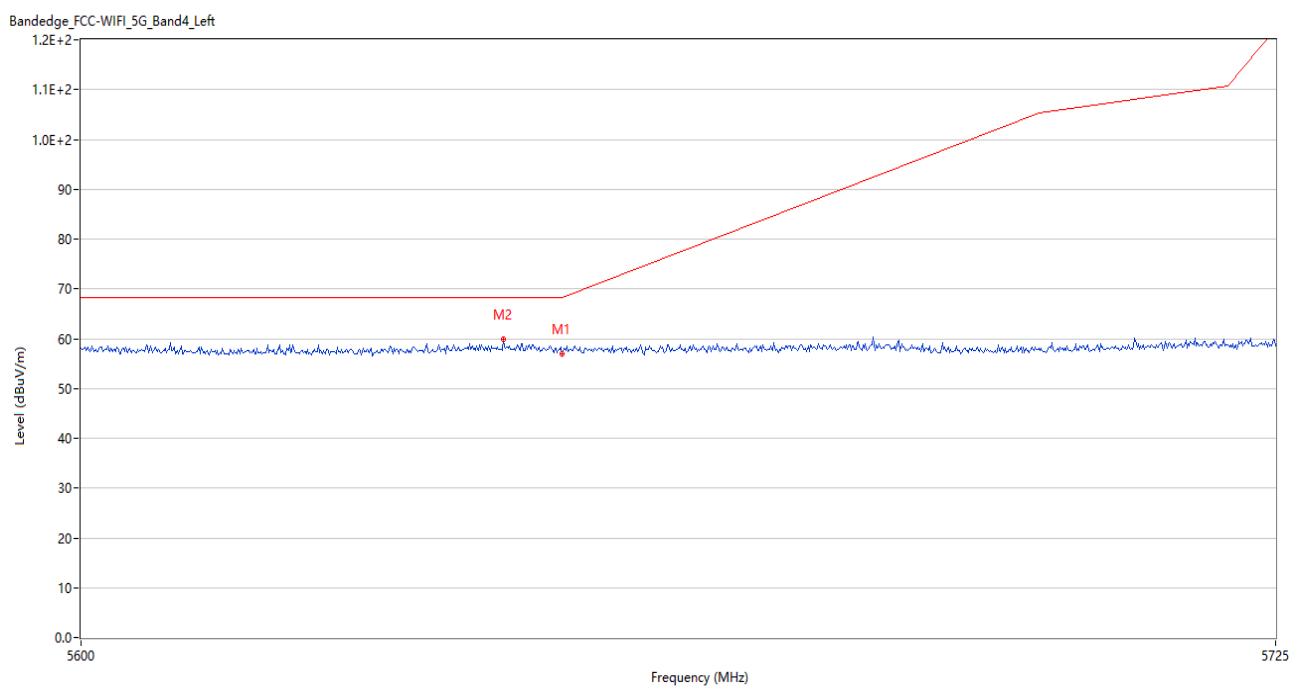
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.04	5.94	68.2	10.16	Peak	211.90	150	Vertical	Pass
2	5632.375	58.99	5.85	68.2	9.21	Peak	131.00	150	Vertical	Pass

U-NII-3 11n40 CH159



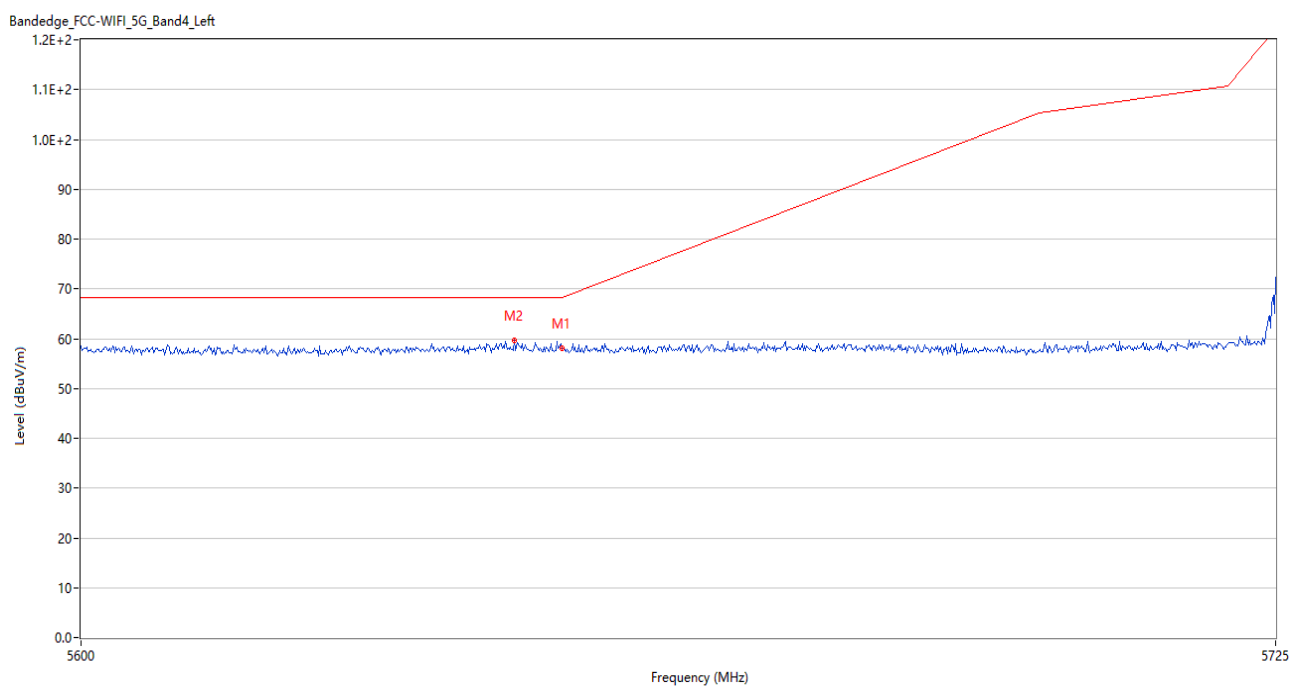
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.25	7.83	68.2	9.95	Peak	275.81	150	Horizontal	Pass
2	5990.400	60.62	7.96	68.2	7.58	Peak	205.00	150	Horizontal	Pass

U-NII-3 11ac80 CH155



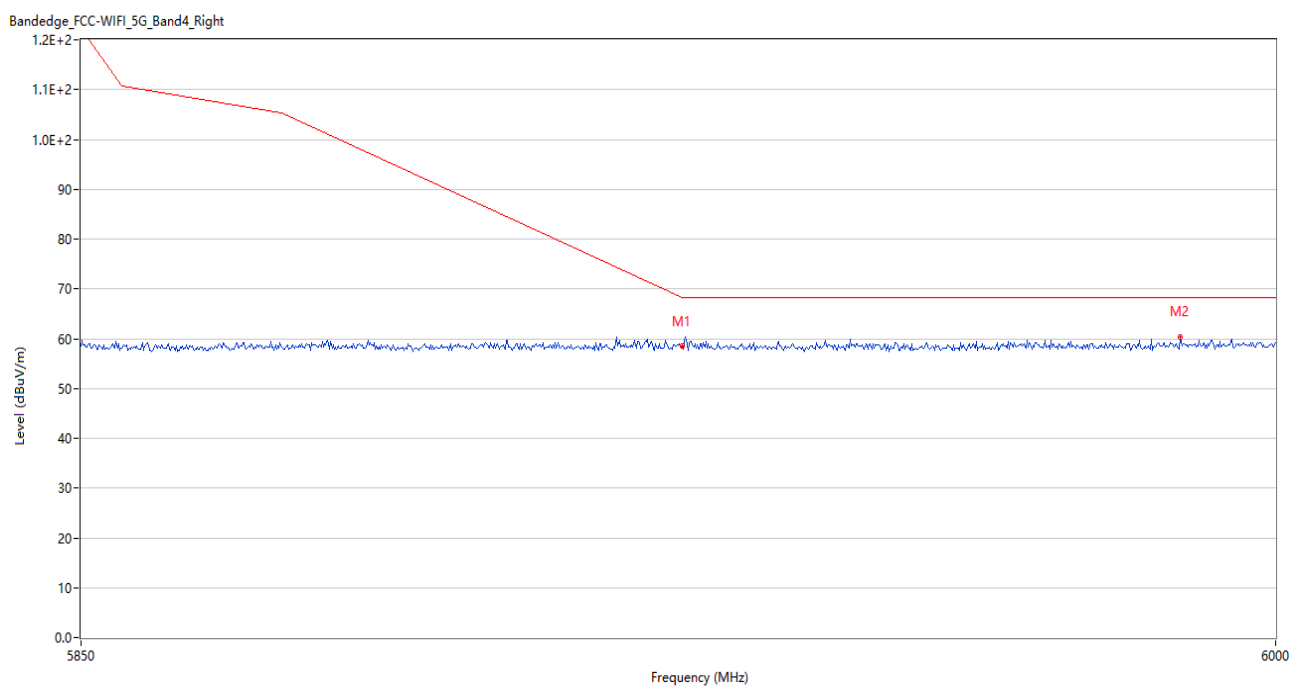
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	56.99	5.94	68.2	11.21	Peak	63.29	150	Vertical	Pass
2	5643.875	59.89	6.01	68.2	8.31	Peak	197.00	150	Vertical	Pass

U-NII-3 11ax20 (SU) CH149



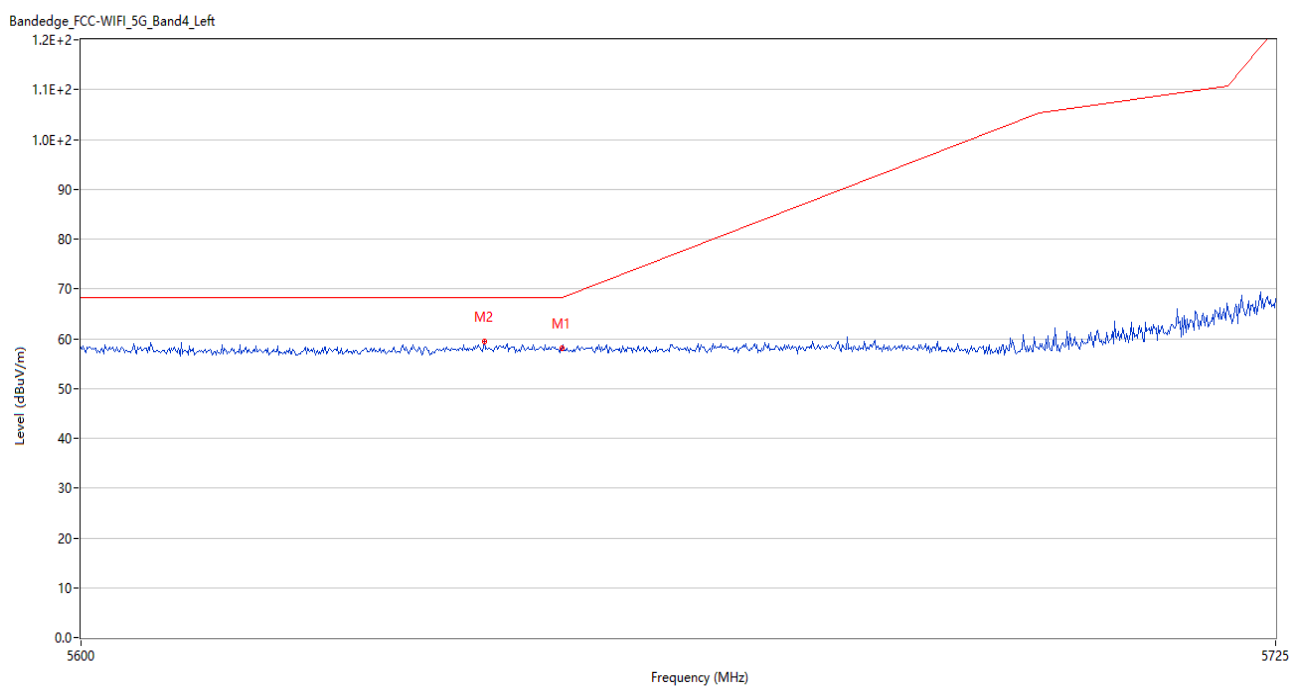
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.97	5.94	68.2	10.23	Peak	297.83	150	Horizontal	Pass
2	5645.000	59.70	6.03	68.2	8.50	Peak	179.00	150	Horizontal	Pass

U-NII-3 11ax20 (SU) CH165



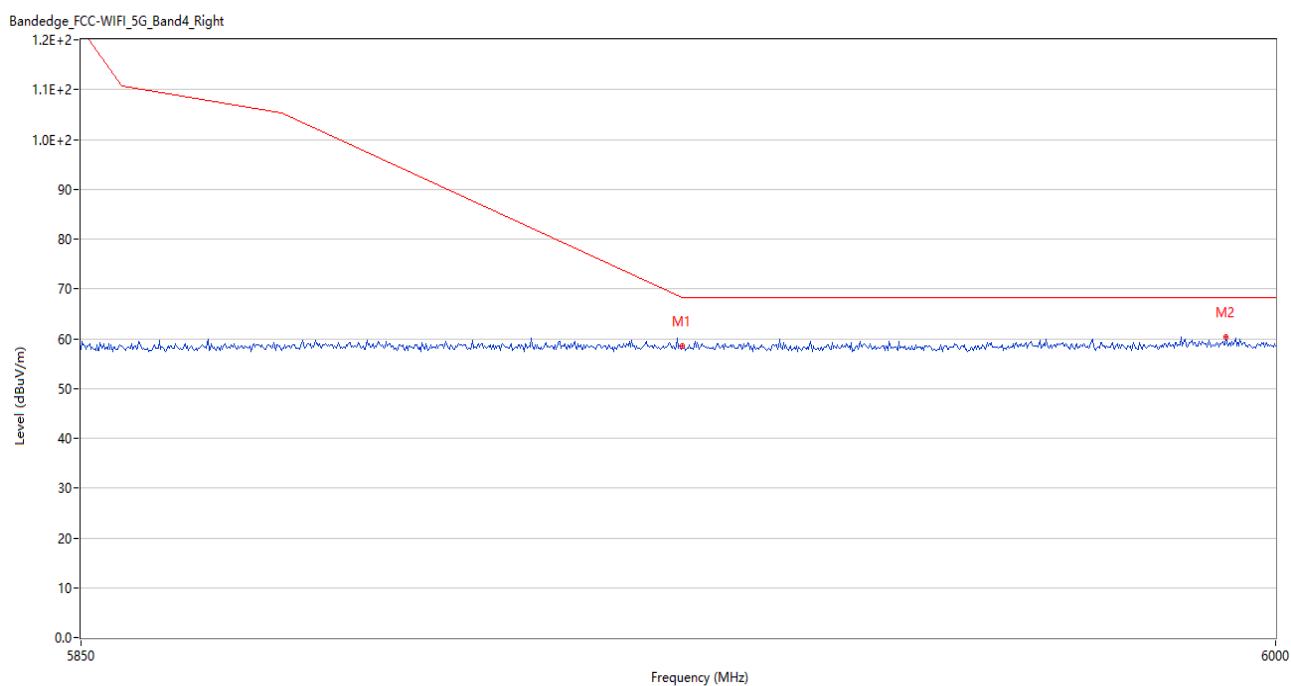
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.57	7.83	68.2	9.63	Peak	240.80	150	Vertical	Pass
2	5987.850	60.43	7.78	68.2	7.77	Peak	44.00	150	Vertical	Pass

U-NII-3 11ax40 (SU) CH151



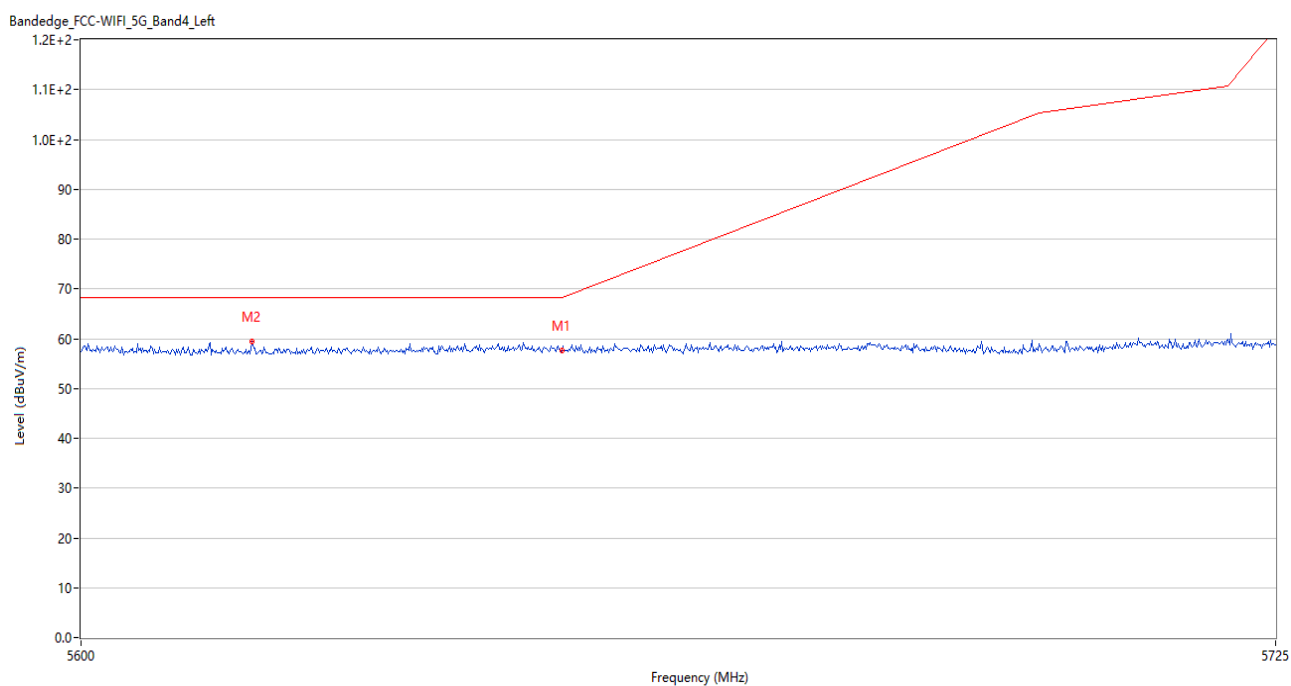
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.04	5.94	68.2	10.16	Peak	0.37	150	Vertical	Pass
2	5641.875	59.49	5.95	68.2	8.71	Peak	240.00	150	Vertical	Pass

U-NII-3 11ax40 (SU) CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.45	7.83	68.2	9.75	Peak	197.89	150	Horizontal	Pass
2	5993.700	60.40	8.00	68.2	7.80	Peak	0.00	150	Horizontal	Pass

U-NII-3 11ax80 (SU) CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.62	5.94	68.2	10.58	Peak	44.10	150	Vertical	Pass
2	5617.750	59.39	5.96	68.2	8.81	Peak	96.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH24A0814-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH24A0814-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH24A0814-AI.PDF”.

Statement

1. The Testing Center 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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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--