

TEST REPORT

Applicant: TOUCH DYNAMIC INC.
Address: 121 Corporate Blvd, South Plainfield, NJ 07080,
USA
Equipment Type: Vector
Model Name: Vector
Brand Name: TOUCH_DYNAMIC
FCC ID: 2BMQJ-VECTOR
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Sep. 23, 2024
Test Date: Sep. 28, 2024 - Oct. 18, 2024
Date of Issue: Jan. 09, 2025

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jan. 09, 2025</u>	<u>Initial Issue</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.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TOUCH DYNAMIC INC.
Address	121 Corporate Blvd, South Plainfield, NJ 07080, USA

2.2 Manufacturer Information

Manufacturer	TOUCH DYNAMIC INC.
Address	121 Corporate Blvd, South Plainfield, NJ 07080, USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	Vector
Model Name Under Test	Vector
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	SC-SH2490037-S03 SC-SH2490037-S10
Hardware Version	V1.0
Software Version	D0773_TOUCH_DYNAMIC_COMBO_20241029
Dimensions (Approx.)	L:367mm* W:200mm* H:290mm*
Weight (Approx.)	Main screen: 3986g Secondary screen: 568g

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 2.4G:11b,11g,11n(HT20/40),11ax(HE20/40) WIFI 5G:11a,11n(HT20/40),11ac(VHT20/40/80),11ax(HE20/40/80)
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz	
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: 18.45 dBm U-NII-2A: 18.42 dBm U-NII-2C: 20.35 dBm U-NII-3: 21.29 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 Aux. Antenna	PIFA Antenna
Antenna Gain	Main Antenna	U-NII-1: 5150 MHz to 5250 MHz: 2.40 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.20 dBi U-NII-2C: 5470 MHz to 5725 MHz: 3.30 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.80 dBi
	Aux. Antenna	U-NII-1: 5150 MHz to 5250 MHz: 4.60 dBi U-NII-2A: 5250 MHz to 5350 MHz: 4.60 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.10 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.10 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.58 dBi U-NII-2A: 5250 MHz to 5350 MHz: 6.94 dBi U-NII-2C: 5470 MHz to 5725 MHz: 7.26 dBi U-NII-3: 5725 MHz to 5850 MHz: 7.96 dBi

		Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 3.64 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.96 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.29 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.95 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.58 dBi U-NII-2A: 5250 MHz to 5350 MHz: 6.94 dBi U-NII-2C: 5470 MHz to 5725 MHz: 7.26 dBi U-NII-3: 5725 MHz to 5850 MHz: 7.96 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 3.64 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.96 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.29 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.95 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
About the Product		The equipment is Vector, 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.			

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	58	5290
44	5220	54	5270	106	5530
48	5240	62	5310	155	5775
52	5260	102	5510		
56	5280	110	5550		
60	5300	151	5755		
64	5320	159	5795		
100	5500				
104	5520				
108	5540				
112	5560				
116	5580				
136	5680				
140	5700				
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-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
44	Mid	5220	60	Mid	5300
48	High	5240	64	High	5320

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

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

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

U-NII-2C (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
118	Mid	5590	159	High	5795
134	High	5670			

For 802.11ac(VHT80)/ax(HE80)

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

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

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		42	58	122/106	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		42	58	122/106	155
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155
	11ax(20 MHz)	4		N/A	N/A	N/A	165/157/149
	11ax(40 MHz)	8		N/A	N/A	N/A	159/151
	11ax(80 MHz)	17		N/A	N/A	N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		42	58	122/106	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		42	58	122/106	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
	11ax(20 MHz)	4		48/36	64/52	140/100	165/149
	11ax(40 MHz)	8		46/38	62/54	134/102	159/151
	11ax(80 MHz)	17		42	58	122/106	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

3.2 Test Verdict

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

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

Note 2: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	51% to 59%	
Atmospheric Pressure	101 kPa	
Temperature	NT (Normal Temperature)	+22.5°C to +23.9°C
Working Voltage of the EUT	NV (Normal Voltage)	24 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 %

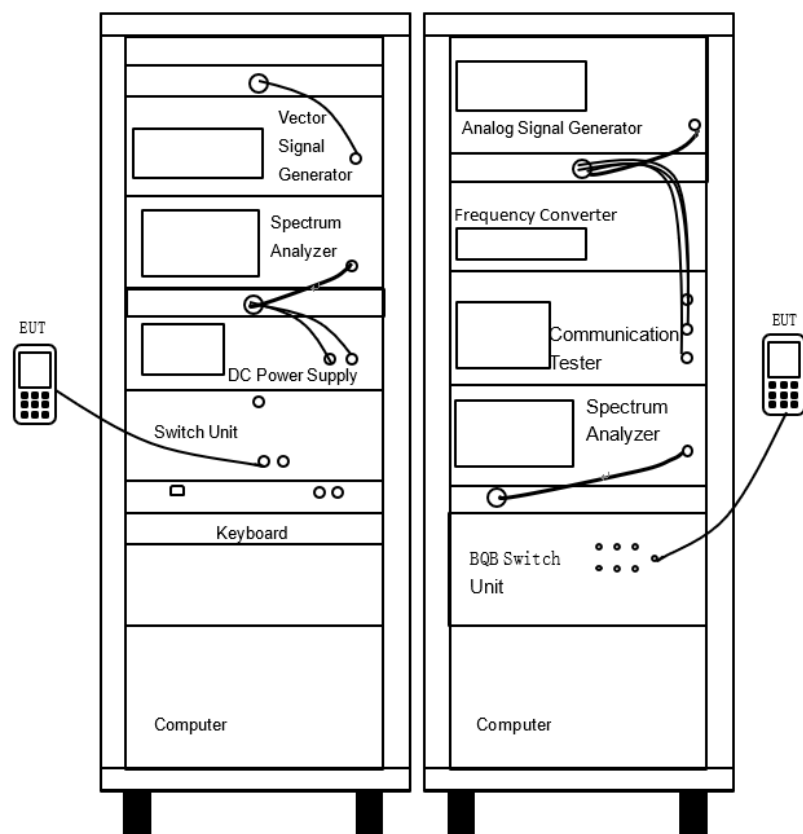
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

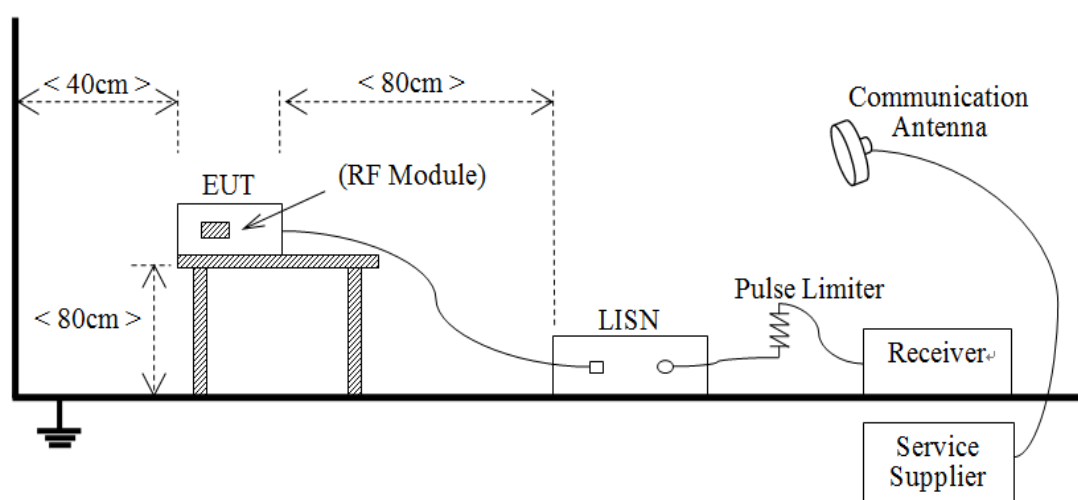
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



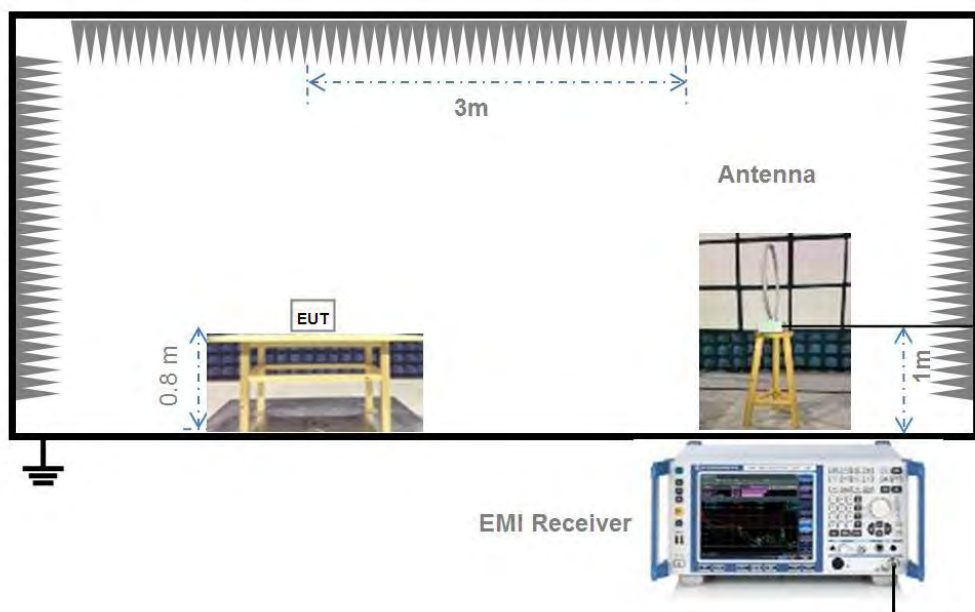
(Diagram 1)

4.6.2 For AC Power Supply Port Test



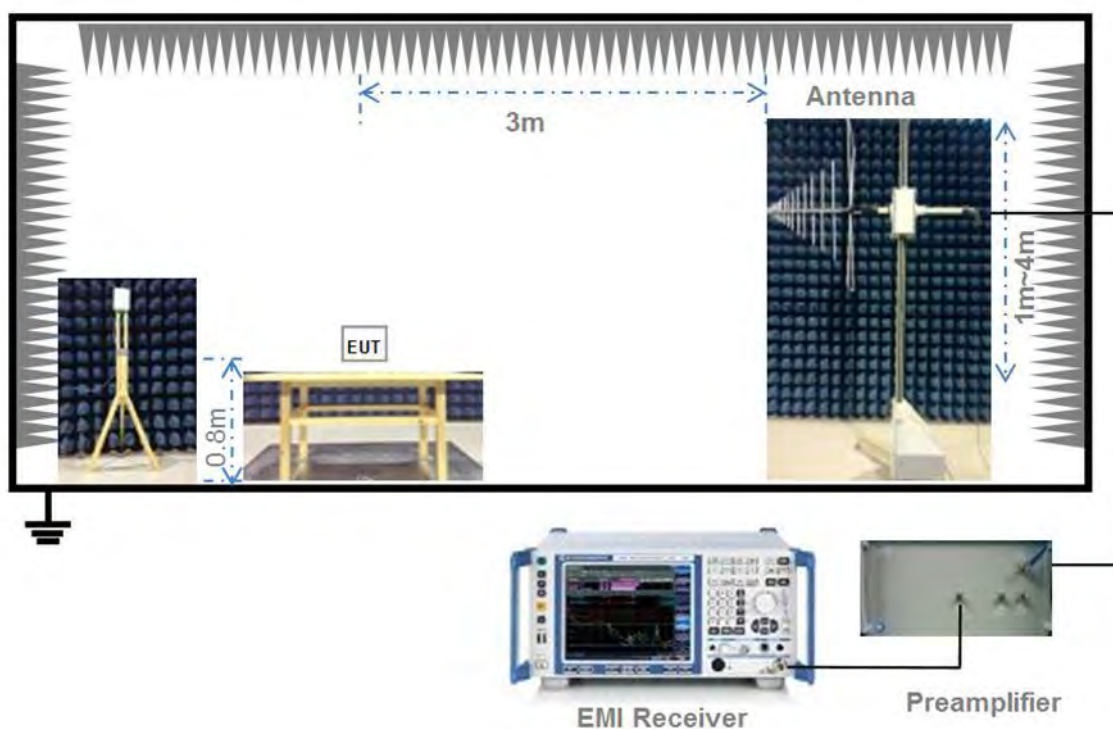
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



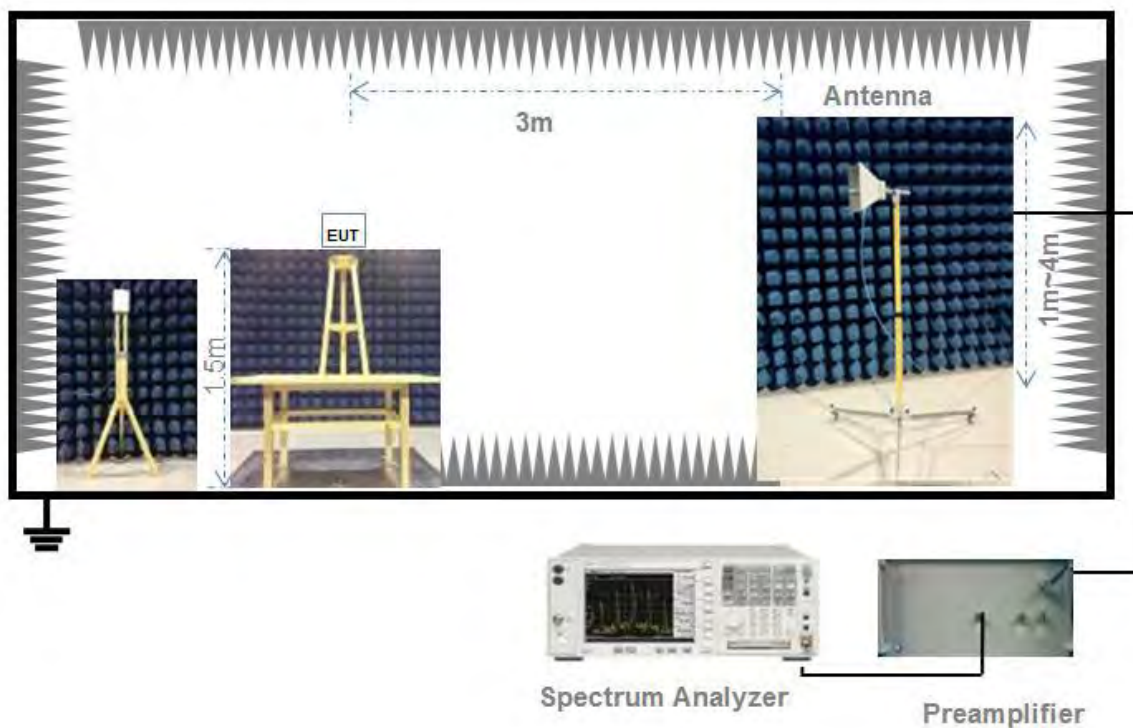
(Diagram 3)

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.	

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)

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

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

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)

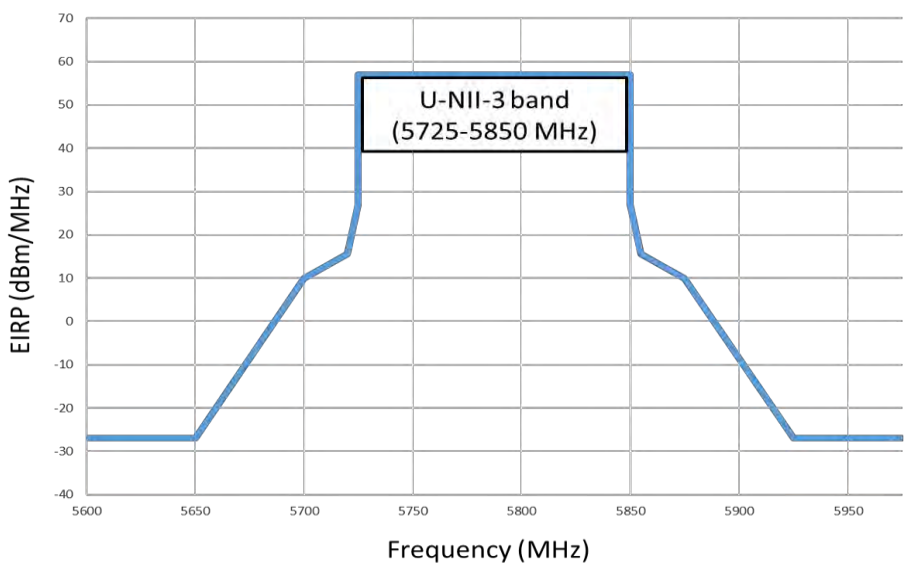
5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

Note²: The tighter limit applies at the band edge.

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

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

5.5.2 Test Setup

The section 4.6.3-4.6.5 (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	1.42	97.40%
11n (HT20)/11ac (VHT20)	1.30	1.96	66.17%
11n (HT40)/11ac (VHT40)	0.64	1.28	49.94%
11ac (VHT80)	0.32	0.94	34.16%
11ax(HE20)	1.01	1.64	61.42%
11ax(HE40)	0.53	1.16	45.57%
11ax(HE80)	0.29	0.92	31.17%

Test DataConducted PowerMain Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.31	21.45	250	Pass
11a	CH44	12.15	16.42	250	Pass
11a	CH48	12.16	16.46	250	Pass
11n (HT20)	CH36	15.44	35.02	250	Pass
11n (HT20)	CH44	14.29	26.87	250	Pass
11n (HT20)	CH48	14.25	26.63	250	Pass
11n (HT40)	CH38	15.14	32.63	250	Pass
11n (HT40)	CH46	13.93	24.69	250	Pass
11ac (VHT20)	CH36	15.37	34.46	250	Pass
11ac (VHT20)	CH44	14.25	26.63	250	Pass
11ac (VHT20)	CH48	14.17	26.14	250	Pass
11ac (VHT40)	CH38	15.11	32.40	250	Pass
11ac (VHT40)	CH46	13.90	24.52	250	Pass
11ac (VHT80)	CH42	14.26	26.70	250	Pass
11ax (HE20) (SU)	CH36	14.41	27.59	250	Pass
11ax (HE20) (SU)	CH44	13.21	20.93	250	Pass
11ax (HE20) (SU)	CH48	13.23	21.02	250	Pass
11ax (HE40) (SU)	CH38	13.08	20.34	250	Pass
11ax (HE40) (SU)	CH46	12.63	18.34	250	Pass
11ax (HE80) (SU)	CH42	11.54	14.27	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	12.28	16.92	250	Pass
11a	CH60	13.34	21.60	250	Pass
11a	CH64	13.38	21.80	250	Pass
11n (HT20)	CH52	14.38	27.44	250	Pass
11n (HT20)	CH60	15.38	34.54	250	Pass
11n (HT20)	CH64	15.46	35.18	250	Pass
11n (HT40)	CH54	14.09	25.62	250	Pass
11n (HT40)	CH62	15.03	31.81	250	Pass
11ac (VHT20)	CH52	14.39	27.50	250	Pass
11ac (VHT20)	CH60	15.47	35.26	250	Pass
11ac (VHT20)	CH64	15.53	35.75	250	Pass
11ac (VHT40)	CH54	13.86	24.30	250	Pass
11ac (VHT40)	CH62	15.08	32.18	250	Pass
11ac (VHT80)	CH58	11.37	13.72	250	Pass
11ax (HE20) (SU)	CH52	13.46	22.17	250	Pass
11ax (HE20) (SU)	CH60	14.49	28.10	250	Pass
11ax (HE20) (SU)	CH64	14.56	28.56	250	Pass
11ax (HE40) (SU)	CH54	12.95	19.74	250	Pass
11ax (HE40) (SU)	CH62	13.29	21.34	250	Pass
11ax (HE80) (SU)	CH58	14.82	30.36	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	12.77	18.94	250	Pass
11a	CH116	11.21	13.23	250	Pass
11a	CH140	12.21	16.65	250	Pass
11n (HT20)	CH100	14.68	29.40	250	Pass
11n (HT20)	CH116	13.14	20.62	250	Pass
11n (HT20)	CH140	15.05	32.01	250	Pass
11n (HT40)	CH102	14.44	27.77	250	Pass
11n (HT40)	CH118	12.95	19.70	250	Pass
11n (HT40)	CH134	17.71	58.96	250	Pass
11ac (VHT20)	CH100	14.72	29.67	250	Pass
11ac (VHT20)	CH116	13.16	20.72	250	Pass
11ac (VHT20)	CH140	15.20	33.14	250	Pass
11ac (VHT40)	CH102	14.49	28.09	250	Pass
11ac (VHT40)	CH118	13.06	20.21	250	Pass
11ac (VHT40)	CH134	17.70	58.83	250	Pass
11ac (VHT80)	CH106	14.09	25.67	250	Pass
11ac (VHT80)	CH122	15.37	34.47	250	Pass
11ax (HE20) (SU)	CH100	13.81	24.03	250	Pass
11ax (HE20) (SU)	CH116	12.32	17.05	250	Pass
11ax (HE20) (SU)	CH140	16.42	43.82	250	Pass
11ax (HE40) (SU)	CH102	12.73	18.76	250	Pass
11ax (HE40) (SU)	CH118	12.14	16.38	250	Pass
11ax (HE40) (SU)	CH134	15.92	39.11	250	Pass
11ax (HE80) (SU)	CH106	14.46	27.94	250	Pass
11ax (HE80) (SU)	CH122	15.84	38.40	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.08	25.61	1000	Pass
11a	CH157	14.07	25.55	1000	Pass
11a	CH165	13.72	23.57	1000	Pass
11n (HT20)	CH149	16.12	40.96	1000	Pass
11n (HT20)	CH157	16.06	40.39	1000	Pass
11n (HT20)	CH165	15.70	37.18	1000	Pass
11n (HT40)	CH151	15.81	38.07	1000	Pass
11n (HT40)	CH159	15.67	36.86	1000	Pass
11ac (VHT20)	CH149	16.09	40.67	1000	Pass
11ac (VHT20)	CH157	16.08	40.58	1000	Pass
11ac (VHT20)	CH165	15.75	37.61	1000	Pass
11ac (VHT40)	CH151	15.91	38.96	1000	Pass
11ac (VHT40)	CH159	15.97	39.50	1000	Pass
11ac (VHT80)	CH155	17.67	58.54	1000	Pass
11ax (HE20) (SU)	CH149	15.14	32.64	1000	Pass
11ax (HE20) (SU)	CH157	15.01	31.67	1000	Pass
11ax (HE20) (SU)	CH165	15.07	32.12	1000	Pass
11ax (HE40) (SU)	CH151	14.66	29.26	1000	Pass
11ax (HE40) (SU)	CH159	14.57	28.66	1000	Pass
11ax (HE80) (SU)	CH155	17.98	62.85	1000	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.44	22.10	250	Pass
11a	CH44	13.08	20.34	250	Pass
11a	CH48	13.09	20.39	250	Pass
11n (HT20)	CH36	13.15	20.67	250	Pass
11n (HT20)	CH44	13.24	21.10	250	Pass
11n (HT20)	CH48	12.93	19.65	250	Pass
11n (HT40)	CH38	15.73	37.37	250	Pass
11n (HT40)	CH46	15.26	33.54	250	Pass
11ac (VHT20)	CH36	13.08	20.34	250	Pass
11ac (VHT20)	CH44	13.34	21.59	250	Pass
11ac (VHT20)	CH48	12.93	19.65	250	Pass
11ac (VHT40)	CH38	15.76	37.63	250	Pass
11ac (VHT40)	CH46	15.55	35.86	250	Pass
11ac (VHT80)	CH42	15.91	39.04	250	Pass
11ax (HE20) (SU)	CH36	14.53	28.36	250	Pass
11ax (HE20) (SU)	CH44	14.06	25.45	250	Pass
11ax (HE20) (SU)	CH48	14.07	25.51	250	Pass
11ax (HE40) (SU)	CH38	13.74	23.68	250	Pass
11ax (HE40) (SU)	CH46	13.78	23.89	250	Pass
11ax (HE80) (SU)	CH42	16.26	42.30	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.03	20.11	250	Pass
11a	CH60	12.93	19.65	250	Pass
11a	CH64	13.02	20.06	250	Pass
11n (HT20)	CH52	15.31	33.99	250	Pass
11n (HT20)	CH60	15.16	32.83	250	Pass
11n (HT20)	CH64	15.26	33.60	250	Pass
11n (HT40)	CH54	15.36	34.32	250	Pass
11n (HT40)	CH62	15.22	33.23	250	Pass
11ac (VHT20)	CH52	15.29	33.83	250	Pass
11ac (VHT20)	CH60	15.13	32.61	250	Pass
11ac (VHT20)	CH64	15.27	33.68	250	Pass
11ac (VHT40)	CH54	15.41	34.72	250	Pass
11ac (VHT40)	CH62	15.23	33.31	250	Pass
11ac (VHT80)	CH58	15.41	34.79	250	Pass
11ax (HE20) (SU)	CH52	14.16	26.04	250	Pass
11ax (HE20) (SU)	CH60	13.96	24.87	250	Pass
11ax (HE20) (SU)	CH64	14.11	25.75	250	Pass
11ax (HE40) (SU)	CH54	14.05	25.43	250	Pass
11ax (HE40) (SU)	CH62	13.33	21.54	250	Pass
11ax (HE80) (SU)	CH58	15.12	32.53	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	13.62	23.04	250	Pass
11a	CH116	13.83	24.18	250	Pass
11a	CH140	13.32	21.50	250	Pass
11n (HT20)	CH100	14.80	30.22	250	Pass
11n (HT20)	CH116	15.02	31.79	250	Pass
11n (HT20)	CH140	15.59	36.25	250	Pass
11n (HT40)	CH102	16.00	39.77	250	Pass
11n (HT40)	CH118	16.23	41.93	250	Pass
11n (HT40)	CH134	16.75	47.27	250	Pass
11ac (VHT20)	CH100	14.75	29.88	250	Pass
11ac (VHT20)	CH116	15.00	31.65	250	Pass
11ac (VHT20)	CH140	14.47	28.01	250	Pass
11ac (VHT40)	CH102	15.96	39.41	250	Pass
11ac (VHT40)	CH118	16.54	45.04	250	Pass
11ac (VHT40)	CH134	16.86	48.48	250	Pass
11ac (VHT80)	CH106	17.17	52.18	250	Pass
11ac (VHT80)	CH122	18.13	65.08	250	Pass
11ax (HE20) (SU)	CH100	14.71	29.56	250	Pass
11ax (HE20) (SU)	CH116	14.96	31.31	250	Pass
11ax (HE20) (SU)	CH140	15.48	35.30	250	Pass
11ax (HE40) (SU)	CH102	14.12	25.84	250	Pass
11ax (HE40) (SU)	CH118	14.38	27.43	250	Pass
11ax (HE40) (SU)	CH134	15.05	32.01	250	Pass
11ax (HE80) (SU)	CH106	17.79	60.16	250	Pass
11ax (HE80) (SU)	CH122	18.45	70.03	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.42	27.70	1000	Pass
11a	CH157	14.44	27.82	1000	Pass
11a	CH165	14.17	26.15	1000	Pass
11n (HT20)	CH149	16.66	46.38	1000	Pass
11n (HT20)	CH157	16.63	46.06	1000	Pass
11n (HT20)	CH165	16.36	43.28	1000	Pass
11n (HT40)	CH151	16.50	44.62	1000	Pass
11n (HT40)	CH159	16.79	47.71	1000	Pass
11ac (VHT20)	CH149	16.29	42.59	1000	Pass
11ac (VHT20)	CH157	16.52	44.91	1000	Pass
11ac (VHT20)	CH165	16.27	42.40	1000	Pass
11ac (VHT40)	CH151	16.39	43.51	1000	Pass
11ac (VHT40)	CH159	16.88	48.70	1000	Pass
11ac (VHT80)	CH155	17.98	62.87	1000	Pass
11ax (HE20) (SU)	CH149	15.20	33.09	1000	Pass
11ax (HE20) (SU)	CH157	15.46	35.13	1000	Pass
11ax (HE20) (SU)	CH165	15.21	33.17	1000	Pass
11ax (HE40) (SU)	CH151	14.80	30.22	1000	Pass
11ax (HE40) (SU)	CH159	14.67	29.33	1000	Pass
11ax (HE80) (SU)	CH155	18.55	71.66	1000	Pass

MIMO Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.39	43.55	250	Pass
11a	CH44	15.65	36.77	250	Pass
11a	CH48	15.66	36.85	250	Pass
11n (HT20)	CH36	17.46	55.69	250	Pass
11n (HT20)	CH44	16.81	47.97	250	Pass
11n (HT20)	CH48	16.65	46.27	250	Pass
11n (HT40)	CH38	18.45	70.00	250	Pass
11n (HT40)	CH46	17.65	58.23	250	Pass
11ac (VHT20)	CH36	17.39	54.80	250	Pass
11ac (VHT20)	CH44	16.83	48.22	250	Pass
11ac (VHT20)	CH48	16.61	45.79	250	Pass
11ac (VHT40)	CH38	18.45	70.04	250	Pass
11ac (VHT40)	CH46	17.81	60.38	250	Pass
11ac (VHT80)	CH42	18.18	65.73	250	Pass
11ax (HE20) (SU)	CH36	17.48	55.95	250	Pass
11ax (HE20) (SU)	CH44	16.66	46.38	250	Pass
11ax (HE20) (SU)	CH48	16.68	46.53	250	Pass
11ax (HE40) (SU)	CH38	16.44	44.01	250	Pass
11ax (HE40) (SU)	CH46	16.26	42.23	250	Pass
11ax (HE80) (SU)	CH42	17.53	56.56	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	15.69	37.03	250	Pass
11a	CH60	16.15	41.25	250	Pass
11a	CH64	16.22	41.86	250	Pass
11n (HT20)	CH52	17.88	61.42	250	Pass
11n (HT20)	CH60	18.28	67.37	250	Pass
11n (HT20)	CH64	18.37	68.78	250	Pass
11n (HT40)	CH54	17.78	59.94	250	Pass
11n (HT40)	CH62	18.13	65.04	250	Pass
11ac (VHT20)	CH52	17.88	61.33	250	Pass
11ac (VHT20)	CH60	18.32	67.87	250	Pass
11ac (VHT20)	CH64	18.42	69.43	250	Pass
11ac (VHT40)	CH54	17.71	59.02	250	Pass
11ac (VHT40)	CH62	18.16	65.49	250	Pass
11ac (VHT80)	CH58	16.86	48.52	250	Pass
11ax (HE20) (SU)	CH52	16.83	48.21	250	Pass
11ax (HE20) (SU)	CH60	17.24	52.97	250	Pass
11ax (HE20) (SU)	CH64	17.35	54.30	250	Pass
11ax (HE40) (SU)	CH54	16.55	45.16	250	Pass
11ax (HE40) (SU)	CH62	16.32	42.89	250	Pass
11ax (HE80) (SU)	CH58	17.99	62.89	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	16.23	41.98	250	Pass
11a	CH116	15.73	37.40	250	Pass
11a	CH140	15.82	38.15	250	Pass
11n (HT20)	CH100	17.75	59.62	250	Pass
11n (HT20)	CH116	17.19	52.41	250	Pass
11n (HT20)	CH140	18.34	68.26	250	Pass
11n (HT40)	CH102	18.30	67.54	250	Pass
11n (HT40)	CH118	17.90	61.64	250	Pass
11n (HT40)	CH134	20.26	106.23	250	Pass
11ac (VHT20)	CH100	17.75	59.55	250	Pass
11ac (VHT20)	CH116	17.19	52.36	250	Pass
11ac (VHT20)	CH140	17.86	61.15	250	Pass
11ac (VHT40)	CH102	18.29	67.50	250	Pass
11ac (VHT40)	CH118	18.15	65.25	250	Pass
11ac (VHT40)	CH134	20.31	107.31	250	Pass
11ac (VHT80)	CH106	18.91	77.85	250	Pass
11ac (VHT80)	CH122	19.98	99.56	250	Pass
11ax (HE20) (SU)	CH100	17.29	53.59	250	Pass
11ax (HE20) (SU)	CH116	16.85	48.36	250	Pass
11ax (HE20) (SU)	CH140	18.98	79.12	250	Pass
11ax (HE40) (SU)	CH102	16.49	44.60	250	Pass
11ax (HE40) (SU)	CH118	16.42	43.81	250	Pass
11ax (HE40) (SU)	CH134	18.52	71.12	250	Pass
11ax (HE80) (SU)	CH106	19.45	88.10	250	Pass
11ax (HE80) (SU)	CH122	20.35	108.43	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.27	53.31	1000	Pass
11a	CH157	17.27	53.38	1000	Pass
11a	CH165	16.97	49.72	1000	Pass
11n (HT20)	CH149	19.41	87.33	1000	Pass
11n (HT20)	CH157	19.37	86.45	1000	Pass
11n (HT20)	CH165	19.06	80.46	1000	Pass
11n (HT40)	CH151	19.17	82.69	1000	Pass
11n (HT40)	CH159	19.27	84.57	1000	Pass
11ac (VHT20)	CH149	19.20	83.26	1000	Pass
11ac (VHT20)	CH157	19.32	85.49	1000	Pass
11ac (VHT20)	CH165	19.03	80.01	1000	Pass
11ac (VHT40)	CH151	19.16	82.46	1000	Pass
11ac (VHT40)	CH159	19.45	88.20	1000	Pass
11ac (VHT80)	CH155	20.84	121.42	1000	Pass
11ax (HE20) (SU)	CH149	18.18	65.73	1000	Pass
11ax (HE20) (SU)	CH157	18.25	66.81	1000	Pass
11ax (HE20) (SU)	CH165	18.15	65.28	1000	Pass
11ax (HE40) (SU)	CH151	17.74	59.48	1000	Pass
11ax (HE40) (SU)	CH159	17.63	57.99	1000	Pass
11ax (HE80) (SU)	CH155	21.29	134.51	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH2490677-604 Data Part 1.pdf".

Test Data

Main Antenna:

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	24.66	17.30
11a	CH44	24.46	17.22
11a	CH48	19.85	16.54
11n (HT20)	CH36	25.06	17.99
11n (HT20)	CH44	25.86	17.98
11n (HT20)	CH48	20.18	17.55
11n (HT40)	CH38	40.03	35.85
11n (HT40)	CH46	40.07	35.83
11ac (VHT20)	CH36	24.98	18.03
11ac (VHT20)	CH44	24.60	17.98
11ac (VHT20)	CH48	20.23	17.55
11ac (VHT40)	CH38	39.91	35.82
11ac (VHT40)	CH46	39.72	35.80
11ac (VHT80)	CH42	80.22	75.22
11ax (HE20) (SU)	CH36	24.80	19.05
11ax (HE20) (SU)	CH44	25.61	19.08
11ax (HE20) (SU)	CH48	19.89	18.81
11ax (HE40) (SU)	CH38	39.61	37.43
11ax (HE40) (SU)	CH46	39.49	37.44
11ax (HE80) (SU)	CH42	80.31	76.85

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	24.47	17.17
11a	CH60	24.53	17.28
11a	CH64	24.51	17.31
11n (HT20)	CH52	24.62	17.98
11n (HT20)	CH60	25.33	17.99
11n (HT20)	CH64	25.14	18.00
11n (HT40)	CH54	39.90	35.85
11n (HT40)	CH62	39.93	35.86
11ac (VHT20)	CH52	24.28	17.96
11ac (VHT20)	CH60	24.87	18.01
11ac (VHT20)	CH64	24.99	18.02
11ac (VHT40)	CH54	40.28	35.85
11ac (VHT40)	CH62	39.90	35.82
11ac (VHT80)	CH58	80.08	75.24
11ax (HE20) (SU)	CH52	26.99	19.04
11ax (HE20) (SU)	CH60	24.81	19.08
11ax (HE20) (SU)	CH64	24.78	19.07
11ax (HE40) (SU)	CH54	39.54	37.49
11ax (HE40) (SU)	CH62	39.55	37.40
11ax (HE80) (SU)	CH58	80.20	76.86

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	24.25	17.27
11a	CH116	24.30	17.19
11a	CH140	24.23	17.27
11n (HT20)	CH100	25.50	17.99
11n (HT20)	CH116	24.71	17.98
11n (HT20)	CH140	25.26	18.00
11n (HT40)	CH102	40.21	35.85
11n (HT40)	CH118	40.03	35.82
11n (HT40)	CH134	40.00	35.84
11ac (VHT20)	CH100	25.04	18.01
11ac (VHT20)	CH116	24.77	17.99
11ac (VHT20)	CH140	25.06	18.02
11ac (VHT40)	CH102	39.82	35.81
11ac (VHT40)	CH118	39.78	35.82
11ac (VHT40)	CH134	39.75	35.83
11ac (VHT80)	CH106	80.17	75.23
11ac (VHT80)	CH122	80.14	75.27
11ax (HE20) (SU)	CH100	25.58	19.07
11ax (HE20) (SU)	CH116	24.47	19.05
11ax (HE20) (SU)	CH140	24.34	19.09
11ax (HE40) (SU)	CH102	39.55	37.46
11ax (HE40) (SU)	CH118	39.54	37.47
11ax (HE40) (SU)	CH134	39.58	37.48
11ax (HE80) (SU)	CH106	80.10	76.74
11ax (HE80) (SU)	CH122	80.20	76.75

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	24.69	17.22
11a	CH157	24.22	17.20
11a	CH165	24.28	17.23
11n (HT20)	CH149	24.45	17.96
11n (HT20)	CH157	24.56	17.97
11n (HT20)	CH165	24.69	17.98
11n (HT40)	CH151	40.14	35.86
11n (HT40)	CH159	39.96	35.88
11ac (VHT20)	CH149	24.54	17.99
11ac (VHT20)	CH157	24.58	17.99
11ac (VHT20)	CH165	24.50	18.00
11ac (VHT40)	CH151	39.80	35.83
11ac (VHT40)	CH159	39.85	35.85
11ac (VHT80)	CH155	80.11	75.21
11ax (HE20) (SU)	CH149	25.98	19.05
11ax (HE20) (SU)	CH157	26.17	19.04
11ax (HE20) (SU)	CH165	29.46	19.05
11ax (HE40) (SU)	CH151	39.49	37.47
11ax (HE40) (SU)	CH159	39.57	37.45
11ax (HE80) (SU)	CH155	80.25	76.75

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	24.63	16.78
11a	CH44	23.79	16.68
11a	CH48	19.52	16.37
11n (HT20)	CH36	24.59	17.85
11n (HT20)	CH44	23.28	17.80
11n (HT20)	CH48	19.89	17.52
11n (HT40)	CH38	39.56	35.85
11n (HT40)	CH46	39.32	35.86
11ac (VHT20)	CH36	23.71	17.82
11ac (VHT20)	CH44	23.91	17.78
11ac (VHT20)	CH48	19.98	17.52
11ac (VHT40)	CH38	39.51	35.83
11ac (VHT40)	CH46	39.42	35.82
11ac (VHT80)	CH42	79.17	74.98
11ax (HE20) (SU)	CH36	25.30	19.04
11ax (HE20) (SU)	CH44	24.99	19.01
11ax (HE20) (SU)	CH48	19.89	18.82
11ax (HE40) (SU)	CH38	39.49	37.47
11ax (HE40) (SU)	CH46	39.52	35.84
11ax (HE80) (SU)	CH42	80.20	76.64

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	23.04	16.69
11a	CH60	24.67	16.76
11a	CH64	24.67	16.76
11n (HT20)	CH52	23.14	17.79
11n (HT20)	CH60	24.62	17.86
11n (HT20)	CH64	24.56	17.86
11n (HT40)	CH54	39.45	35.87
11n (HT40)	CH62	39.32	35.85
11ac (VHT20)	CH52	23.66	17.78
11ac (VHT20)	CH60	24.87	17.84
11ac (VHT20)	CH64	24.27	17.83
11ac (VHT40)	CH54	39.62	35.84
11ac (VHT40)	CH62	39.44	35.84
11ac (VHT80)	CH58	79.05	74.99
11ax (HE20) (SU)	CH52	23.29	19.05
11ax (HE20) (SU)	CH60	24.45	19.01
11ax (HE20) (SU)	CH64	23.27	19.04
11ax (HE40) (SU)	CH54	39.54	37.45
11ax (HE40) (SU)	CH62	39.45	37.51
11ax (HE80) (SU)	CH58	80.30	76.65

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	24.69	16.78
11a	CH116	23.33	16.69
11a	CH140	24.67	16.76
11n (HT20)	CH100	24.61	17.86
11n (HT20)	CH116	23.86	17.80
11n (HT20)	CH140	24.09	17.88
11n (HT40)	CH102	39.30	35.85
11n (HT40)	CH118	39.49	35.86
11n (HT40)	CH134	39.52	35.85
11ac (VHT20)	CH100	24.95	17.83
11ac (VHT20)	CH116	23.38	17.78
11ac (VHT20)	CH140	24.30	17.84
11ac (VHT40)	CH102	39.46	35.84
11ac (VHT40)	CH118	39.65	35.84
11ac (VHT40)	CH134	39.36	35.84
11ac (VHT80)	CH106	79.11	75.05
11ac (VHT80)	CH122	79.29	75.05
11ax (HE20) (SU)	CH100	24.61	19.03
11ax (HE20) (SU)	CH116	24.66	19.03
11ax (HE20) (SU)	CH140	22.39	19.03
11ax (HE40) (SU)	CH102	39.58	37.47
11ax (HE40) (SU)	CH118	39.53	37.49
11ax (HE40) (SU)	CH134	39.48	37.47
11ax (HE80) (SU)	CH106	80.37	76.80
11ax (HE80) (SU)	CH122	80.23	76.76

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	23.86	16.70
11a	CH157	24.12	16.69
11a	CH165	22.96	16.71
11n (HT20)	CH149	23.48	17.80
11n (HT20)	CH157	23.02	17.79
11n (HT20)	CH165	23.51	17.79
11n (HT40)	CH151	39.52	35.86
11n (HT40)	CH159	39.51	35.87
11ac (VHT20)	CH149	23.65	17.80
11ac (VHT20)	CH157	23.86	17.81
11ac (VHT20)	CH165	23.63	17.82
11ac (VHT40)	CH151	39.44	35.84
11ac (VHT40)	CH159	39.38	35.87
11ac (VHT80)	CH155	79.19	75.03
11ax (HE20) (SU)	CH149	22.74	19.04
11ax (HE20) (SU)	CH157	24.39	19.03
11ax (HE20) (SU)	CH165	23.78	19.03
11ax (HE40) (SU)	CH151	39.49	37.40
11ax (HE40) (SU)	CH159	39.51	37.43
11ax (HE80) (SU)	CH155	80.25	76.75

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH2490677-604 Data Part 2.pdf".

Test Data

Main Antenna:

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.50	500.00	Pass
11a	CH157	16.50	500.00	Pass
11a	CH165	15.90	500.00	Pass
11n (HT20)	CH149	17.20	500.00	Pass
11n (HT20)	CH157	15.90	500.00	Pass
11n (HT20)	CH165	16.40	500.00	Pass
11n (HT40)	CH151	35.30	500.00	Pass
11n (HT40)	CH159	35.30	500.00	Pass
11ac (VHT20)	CH149	16.60	500.00	Pass
11ac (VHT20)	CH157	16.50	500.00	Pass
11ac (VHT20)	CH165	16.50	500.00	Pass
11ac (VHT40)	CH151	35.30	500.00	Pass
11ac (VHT40)	CH159	35.30	500.00	Pass
11ac (VHT80)	CH155	75.30	500.00	Pass
11ax (HE20) (SU)	CH149	19.10	500.00	Pass
11ax (HE20) (SU)	CH157	19.00	500.00	Pass
11ax (HE20) (SU)	CH165	19.10	500.00	Pass
11ax (HE40) (SU)	CH151	35.30	500.00	Pass
11ax (HE40) (SU)	CH159	35.60	500.00	Pass
11ax (HE80) (SU)	CH155	75.30	500.00	Pass

Aux. Antenna:

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.50	500.00	Pass
11a	CH157	16.50	500.00	Pass
11a	CH165	16.50	500.00	Pass
11n (HT20)	CH149	17.70	500.00	Pass
11n (HT20)	CH157	17.50	500.00	Pass
11n (HT20)	CH165	17.70	500.00	Pass
11n (HT40)	CH151	35.20	500.00	Pass
11n (HT40)	CH159	35.20	500.00	Pass
11ac (VHT20)	CH149	17.50	500.00	Pass
11ac (VHT20)	CH157	17.50	500.00	Pass
11ac (VHT20)	CH165	17.70	500.00	Pass
11ac (VHT40)	CH151	35.30	500.00	Pass
11ac (VHT40)	CH159	35.20	500.00	Pass
11ac (VHT80)	CH155	75.30	500.00	Pass
11ax (HE20) (SU)	CH149	18.90	500.00	Pass
11ax (HE20) (SU)	CH157	18.90	500.00	Pass
11ax (HE20) (SU)	CH165	18.70	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-SH2490677-604 Data Part 3.pdf”.

Note ²: The PSD has considered the Duty Factor.

Test Data

Main Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.23	11.00	Pass
11a	CH44	1.42	11.00	Pass
11a	CH48	1.80	11.00	Pass
11n (HT20)	CH36	4.06	11.00	Pass
11n (HT20)	CH44	3.18	11.00	Pass
11n (HT20)	CH48	3.51	11.00	Pass
11n (HT40)	CH38	1.58	11.00	Pass
11n (HT40)	CH46	3.86	11.00	Pass
11ac (VHT20)	CH36	4.02	11.00	Pass
11ac (VHT20)	CH44	3.07	11.00	Pass
11ac (VHT20)	CH48	3.58	11.00	Pass
11ac (VHT40)	CH38	1.57	11.00	Pass
11ac (VHT40)	CH46	0.94	11.00	Pass
11ac (VHT80)	CH42	-1.44	11.00	Pass
11ax (HE20) (SU)	CH36	2.47	11.00	Pass
11ax (HE20) (SU)	CH44	1.92	11.00	Pass
11ax (HE20) (SU)	CH48	2.22	11.00	Pass
11ax (HE40) (SU)	CH38	-0.67	11.00	Pass
11ax (HE40) (SU)	CH46	-0.80	11.00	Pass
11ax (HE80) (SU)	CH42	-4.57	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	1.86	11.00	Pass
11a	CH60	2.61	11.00	Pass
11a	CH64	2.46	11.00	Pass
11n (HT20)	CH52	3.57	11.00	Pass
11n (HT20)	CH60	4.31	11.00	Pass
11n (HT20)	CH64	4.37	11.00	Pass
11n (HT40)	CH54	1.16	11.00	Pass
11n (HT40)	CH62	1.99	11.00	Pass
11ac (VHT20)	CH52	3.48	11.00	Pass
11ac (VHT20)	CH60	4.50	11.00	Pass
11ac (VHT20)	CH64	4.42	11.00	Pass
11ac (VHT40)	CH54	1.14	11.00	Pass
11ac (VHT40)	CH62	2.09	11.00	Pass
11ac (VHT80)	CH58	-4.77	11.00	Pass
11ax (HE20) (SU)	CH52	2.03	11.00	Pass
11ax (HE20) (SU)	CH60	2.90	11.00	Pass
11ax (HE20) (SU)	CH64	3.01	11.00	Pass
11ax (HE40) (SU)	CH54	0.20	11.00	Pass
11ax (HE40) (SU)	CH62	-0.01	11.00	Pass
11ax (HE80) (SU)	CH58	-1.21	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	1.75	11.00	Pass
11a	CH116	1.85	11.00	Pass
11a	CH140	1.32	11.00	Pass
11n (HT20)	CH100	3.77	11.00	Pass
11n (HT20)	CH116	2.07	11.00	Pass
11n (HT20)	CH140	4.55	11.00	Pass
11n (HT40)	CH102	1.20	11.00	Pass
11n (HT40)	CH118	-0.44	11.00	Pass
11n (HT40)	CH134	4.27	11.00	Pass
11ac (VHT20)	CH100	3.69	11.00	Pass
11ac (VHT20)	CH116	1.56	11.00	Pass
11ac (VHT20)	CH140	3.93	11.00	Pass
11ac (VHT40)	CH102	1.28	11.00	Pass
11ac (VHT40)	CH118	-0.33	11.00	Pass
11ac (VHT40)	CH134	4.28	11.00	Pass
11ac (VHT80)	CH106	-2.14	11.00	Pass
11ac (VHT80)	CH122	-1.36	11.00	Pass
11ax (HE20) (SU)	CH100	-0.02	11.00	Pass
11ax (HE20) (SU)	CH116	0.35	11.00	Pass
11ax (HE20) (SU)	CH140	4.81	11.00	Pass
11ax (HE40) (SU)	CH102	-2.30	11.00	Pass
11ax (HE40) (SU)	CH118	-1.63	11.00	Pass
11ax (HE40) (SU)	CH134	1.75	11.00	Pass
11ax (HE80) (SU)	CH106	-3.40	11.00	Pass
11ax (HE80) (SU)	CH122	-1.12	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	0.14	30.00	Pass
11a	CH157	0.34	30.00	Pass
11a	CH165	0.94	30.00	Pass
11n (HT20)	CH149	2.11	30.00	Pass
11n (HT20)	CH157	1.85	30.00	Pass
11n (HT20)	CH165	2.41	30.00	Pass
11n (HT40)	CH151	-0.24	30.00	Pass
11n (HT40)	CH159	-0.63	30.00	Pass
11ac (VHT20)	CH149	2.05	30.00	Pass
11ac (VHT20)	CH157	1.87	30.00	Pass
11ac (VHT20)	CH165	1.97	30.00	Pass
11ac (VHT40)	CH151	-0.19	30.00	Pass
11ac (VHT40)	CH159	-0.45	30.00	Pass
11ac (VHT80)	CH155	-1.17	30.00	Pass
11ax (HE20) (SU)	CH149	0.47	30.00	Pass
11ax (HE20) (SU)	CH157	0.62	30.00	Pass
11ax (HE20) (SU)	CH165	0.83	30.00	Pass
11ax (HE40) (SU)	CH151	-1.04	30.00	Pass
11ax (HE40) (SU)	CH159	-2.19	30.00	Pass
11ax (HE80) (SU)	CH155	-1.26	30.00	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.96	11.00	Pass
11a	CH44	2.66	11.00	Pass
11a	CH48	2.64	11.00	Pass
11n (HT20)	CH36	2.29	11.00	Pass
11n (HT20)	CH44	2.45	11.00	Pass
11n (HT20)	CH48	2.31	11.00	Pass
11n (HT40)	CH38	1.35	11.00	Pass
11n (HT40)	CH46	1.42	11.00	Pass
11ac (VHT20)	CH36	2.32	11.00	Pass
11ac (VHT20)	CH44	2.43	11.00	Pass
11ac (VHT20)	CH48	2.27	11.00	Pass
11ac (VHT40)	CH38	2.52	11.00	Pass
11ac (VHT40)	CH46	2.61	11.00	Pass
11ac (VHT80)	CH42	-0.13	11.00	Pass
11ax (HE20) (SU)	CH36	2.88	11.00	Pass
11ax (HE20) (SU)	CH44	2.87	11.00	Pass
11ax (HE20) (SU)	CH48	3.03	11.00	Pass
11ax (HE40) (SU)	CH38	0.33	11.00	Pass
11ax (HE40) (SU)	CH46	3.12	11.00	Pass
11ax (HE80) (SU)	CH42	0.70	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	2.54	11.00	Pass
11a	CH60	1.91	11.00	Pass
11a	CH64	1.89	11.00	Pass
11n (HT20)	CH52	4.55	11.00	Pass
11n (HT20)	CH60	3.92	11.00	Pass
11n (HT20)	CH64	3.98	11.00	Pass
11n (HT40)	CH54	2.47	11.00	Pass
11n (HT40)	CH62	1.87	11.00	Pass
11ac (VHT20)	CH52	4.45	11.00	Pass
11ac (VHT20)	CH60	3.99	11.00	Pass
11ac (VHT20)	CH64	4.00	11.00	Pass
11ac (VHT40)	CH54	2.42	11.00	Pass
11ac (VHT40)	CH62	2.07	11.00	Pass
11ac (VHT80)	CH58	-0.75	11.00	Pass
11ax (HE20) (SU)	CH52	2.87	11.00	Pass
11ax (HE20) (SU)	CH60	2.36	11.00	Pass
11ax (HE20) (SU)	CH64	2.45	11.00	Pass
11ax (HE40) (SU)	CH54	1.54	11.00	Pass
11ax (HE40) (SU)	CH62	-0.32	11.00	Pass
11ax (HE80) (SU)	CH58	-1.29	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	2.79	11.00	Pass
11a	CH116	2.80	11.00	Pass
11a	CH140	2.24	11.00	Pass
11n (HT20)	CH100	3.56	11.00	Pass
11n (HT20)	CH116	3.95	11.00	Pass
11n (HT20)	CH140	4.21	11.00	Pass
11n (HT40)	CH102	2.73	11.00	Pass
11n (HT40)	CH118	2.69	11.00	Pass
11n (HT40)	CH134	3.05	11.00	Pass
11ac (VHT20)	CH100	3.66	11.00	Pass
11ac (VHT20)	CH116	3.60	11.00	Pass
11ac (VHT20)	CH140	3.01	11.00	Pass
11ac (VHT40)	CH102	2.93	11.00	Pass
11ac (VHT40)	CH118	2.60	11.00	Pass
11ac (VHT40)	CH134	3.07	11.00	Pass
11ac (VHT80)	CH106	0.69	11.00	Pass
11ac (VHT80)	CH122	1.80	11.00	Pass
11ax (HE20) (SU)	CH100	-0.02	11.00	Pass
11ax (HE20) (SU)	CH116	3.27	11.00	Pass
11ax (HE20) (SU)	CH140	3.56	11.00	Pass
11ax (HE40) (SU)	CH102	-0.79	11.00	Pass
11ax (HE40) (SU)	CH118	1.07	11.00	Pass
11ax (HE40) (SU)	CH134	0.70	11.00	Pass
11ax (HE80) (SU)	CH106	-0.63	11.00	Pass
11ax (HE80) (SU)	CH122	1.46	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	0.56	30.00	Pass
11a	CH157	2.24	30.00	Pass
11a	CH165	0.33	30.00	Pass
11n (HT20)	CH149	4.23	30.00	Pass
11n (HT20)	CH157	2.52	30.00	Pass
11n (HT20)	CH165	2.83	30.00	Pass
11n (HT40)	CH151	0.07	30.00	Pass
11n (HT40)	CH159	0.76	30.00	Pass
11ac (VHT20)	CH149	2.10	30.00	Pass
11ac (VHT20)	CH157	2.43	30.00	Pass
11ac (VHT20)	CH165	2.33	30.00	Pass
11ac (VHT40)	CH151	0.46	30.00	Pass
11ac (VHT40)	CH159	0.48	30.00	Pass
11ac (VHT80)	CH155	-1.21	30.00	Pass
11ax (HE20) (SU)	CH149	0.97	30.00	Pass
11ax (HE20) (SU)	CH157	1.19	30.00	Pass
11ax (HE20) (SU)	CH165	0.79	30.00	Pass
11ax (HE40) (SU)	CH151	-0.80	30.00	Pass
11ax (HE40) (SU)	CH159	-2.01	30.00	Pass
11ax (HE80) (SU)	CH155	-0.59	30.00	Pass

MIMO Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	5.62	6.58	Pass
11a	CH44	5.09	6.58	Pass
11a	CH48	5.25	6.58	Pass
11n (HT20)	CH36	6.28	11.00	Pass
11n (HT20)	CH44	5.84	11.00	Pass
11n (HT20)	CH48	5.96	11.00	Pass
11n (HT40)	CH38	4.48	11.00	Pass
11n (HT40)	CH46	5.82	11.00	Pass
11ac (VHT20)	CH36	6.26	11.00	Pass
11ac (VHT20)	CH44	5.77	11.00	Pass
11ac (VHT20)	CH48	5.98	11.00	Pass
11ac (VHT40)	CH38	5.08	11.00	Pass
11ac (VHT40)	CH46	4.86	11.00	Pass
11ac (VHT80)	CH42	2.27	11.00	Pass
11ax (HE20) (SU)	CH36	5.69	11.00	Pass
11ax (HE20) (SU)	CH44	5.43	11.00	Pass
11ax (HE20) (SU)	CH48	5.65	11.00	Pass
11ax (HE40) (SU)	CH38	2.87	11.00	Pass
11ax (HE40) (SU)	CH46	4.60	11.00	Pass
11ax (HE80) (SU)	CH42	1.83	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	5.22	6.94	Pass
11a	CH60	5.28	6.94	Pass
11a	CH64	5.20	6.94	Pass
11n (HT20)	CH52	7.10	11.00	Pass
11n (HT20)	CH60	7.13	11.00	Pass
11n (HT20)	CH64	7.19	11.00	Pass
11n (HT40)	CH54	4.87	11.00	Pass
11n (HT40)	CH62	4.94	11.00	Pass
11ac (VHT20)	CH52	7.00	11.00	Pass
11ac (VHT20)	CH60	7.26	11.00	Pass
11ac (VHT20)	CH64	7.23	11.00	Pass
11ac (VHT40)	CH54	4.84	11.00	Pass
11ac (VHT40)	CH62	5.09	11.00	Pass
11ac (VHT80)	CH58	0.70	11.00	Pass
11ax (HE20) (SU)	CH52	5.48	11.00	Pass
11ax (HE20) (SU)	CH60	5.65	11.00	Pass
11ax (HE20) (SU)	CH64	5.75	11.00	Pass
11ax (HE40) (SU)	CH54	3.93	11.00	Pass
11ax (HE40) (SU)	CH62	2.85	11.00	Pass
11ax (HE80) (SU)	CH58	1.76	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	5.31	7.26	Pass
11a	CH116	5.36	7.26	Pass
11a	CH140	4.81	7.26	Pass
11n (HT20)	CH100	6.68	11.00	Pass
11n (HT20)	CH116	6.12	11.00	Pass
11n (HT20)	CH140	7.39	11.00	Pass
11n (HT40)	CH102	5.04	11.00	Pass
11n (HT40)	CH118	4.41	11.00	Pass
11n (HT40)	CH134	6.71	11.00	Pass
11ac (VHT20)	CH100	6.68	11.00	Pass
11ac (VHT20)	CH116	5.71	11.00	Pass
11ac (VHT20)	CH140	6.50	11.00	Pass
11ac (VHT40)	CH102	5.19	11.00	Pass
11ac (VHT40)	CH118	4.39	11.00	Pass
11ac (VHT40)	CH134	6.73	11.00	Pass
11ac (VHT80)	CH106	2.51	11.00	Pass
11ac (VHT80)	CH122	3.51	11.00	Pass
11ax (HE20) (SU)	CH100	2.99	11.00	Pass
11ax (HE20) (SU)	CH116	5.06	11.00	Pass
11ax (HE20) (SU)	CH140	7.24	11.00	Pass
11ax (HE40) (SU)	CH102	1.53	11.00	Pass
11ax (HE40) (SU)	CH118	2.93	11.00	Pass
11ax (HE40) (SU)	CH134	4.26	11.00	Pass
11ax (HE80) (SU)	CH106	1.21	11.00	Pass
11ax (HE80) (SU)	CH122	3.37	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	3.37	7.96	Pass
11a	CH157	4.40	7.96	Pass
11a	CH165	3.66	7.96	Pass
11n (HT20)	CH149	6.31	30.00	Pass
11n (HT20)	CH157	5.21	30.00	Pass
11n (HT20)	CH165	5.64	30.00	Pass
11n (HT40)	CH151	2.93	30.00	Pass
11n (HT40)	CH159	3.13	30.00	Pass
11ac (VHT20)	CH149	5.09	30.00	Pass
11ac (VHT20)	CH157	5.17	30.00	Pass
11ac (VHT20)	CH165	5.16	30.00	Pass
11ac (VHT40)	CH151	3.16	30.00	Pass
11ac (VHT40)	CH159	3.05	30.00	Pass
11ac (VHT80)	CH155	1.82	30.00	Pass
11ax (HE20) (SU)	CH149	3.74	30.00	Pass
11ax (HE20) (SU)	CH157	3.92	30.00	Pass
11ax (HE20) (SU)	CH165	3.82	30.00	Pass
11ax (HE40) (SU)	CH151	2.10	30.00	Pass
11ax (HE40) (SU)	CH159	0.91	30.00	Pass
11ax (HE80) (SU)	CH155	2.10	30.00	Pass

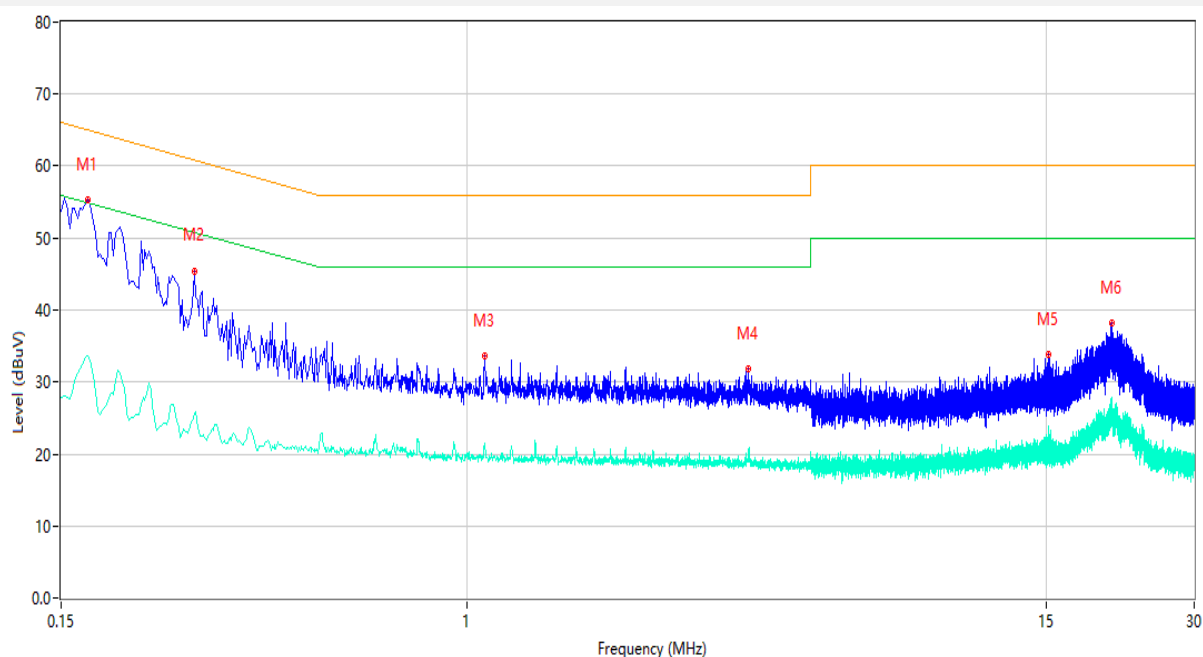
A.5 Conducted Emission

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.

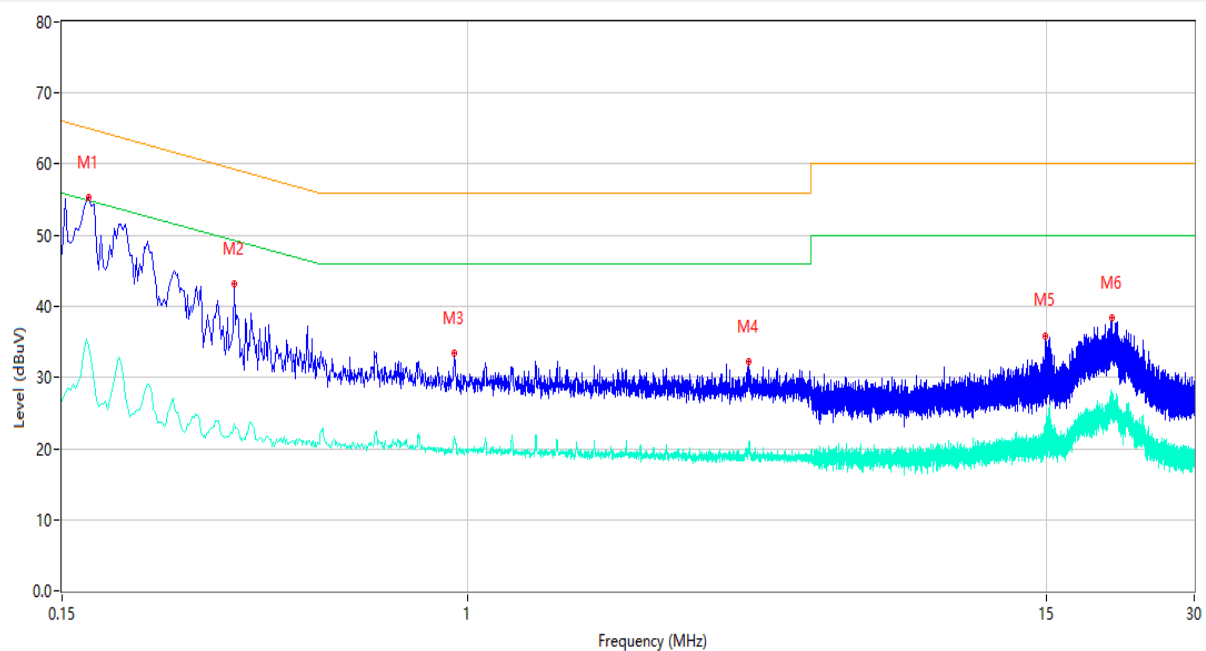
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	55.37	9.75	64.96	9.59	Peak	L	Pass
1**	0.170	33.68	9.75	54.96	21.28	AV	L	Pass
2	0.280	45.46	9.74	60.82	15.36	Peak	L	Pass
2**	0.280	25.77	9.74	50.82	25.05	AV	L	Pass
3	1.086	33.57	9.70	56.00	22.43	Peak	L	Pass
3**	1.086	21.40	9.70	46.00	24.60	AV	L	Pass
4	3.734	31.84	9.66	56.00	24.16	Peak	L	Pass
4**	3.734	20.36	9.66	46.00	25.64	AV	L	Pass
5	15.202	33.89	9.24	60.00	26.11	Peak	L	Pass
5**	15.202	22.56	9.24	50.00	27.44	AV	L	Pass
6	20.422	38.22	8.92	60.00	21.78	Peak	L	Pass
6**	20.422	27.78	8.92	50.00	22.22	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	55.37	9.72	64.96	9.59	Peak	N	Pass
1**	0.170	34.42	9.72	54.96	20.54	AV	N	Pass
2	0.336	43.23	9.77	59.30	16.07	Peak	N	Pass
2**	0.336	23.38	9.77	49.30	25.92	AV	N	Pass
3	0.942	33.43	9.86	56.00	22.57	Peak	N	Pass
3**	0.942	21.79	9.86	46.00	24.21	AV	N	Pass
4	3.738	32.22	9.84	56.00	23.78	Peak	N	Pass
4**	3.738	20.80	9.84	46.00	25.20	AV	N	Pass
5	14.984	35.91	9.51	60.00	24.09	Peak	N	Pass
5**	14.984	21.49	9.51	50.00	28.51	AV	N	Pass
6	20.412	38.42	9.12	60.00	21.58	Peak	N	Pass
6**	20.412	26.37	9.12	50.00	23.63	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.

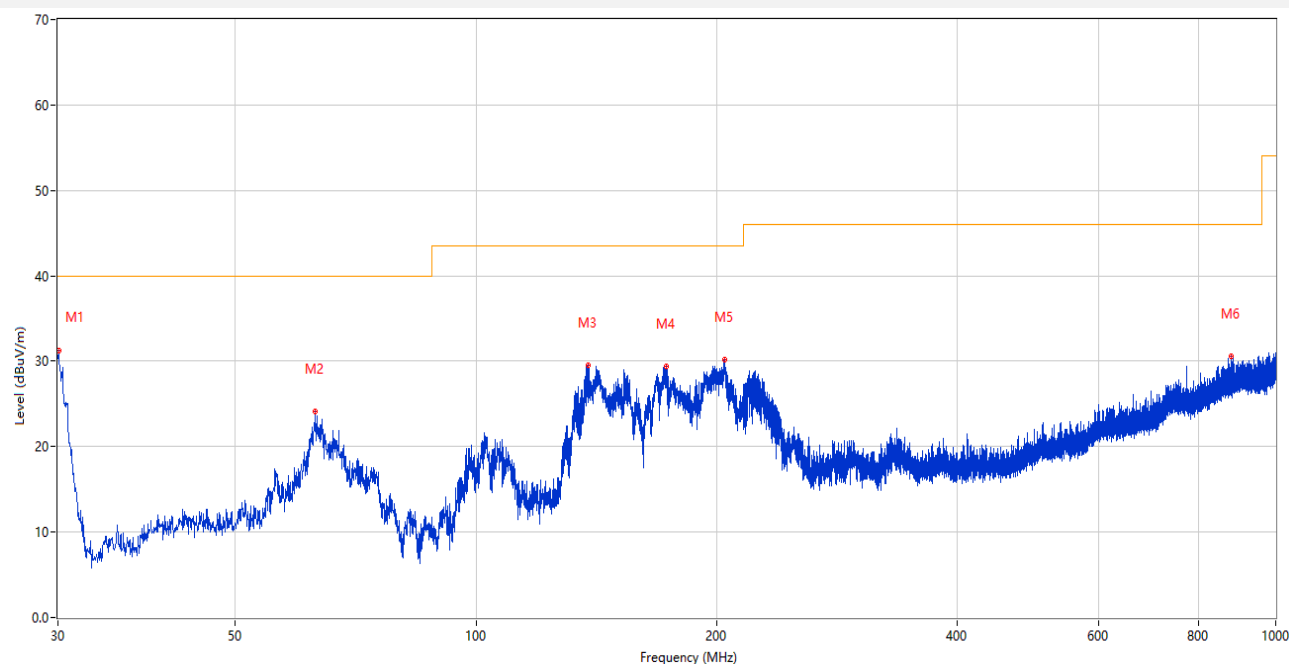
Note 3: The Middle frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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.

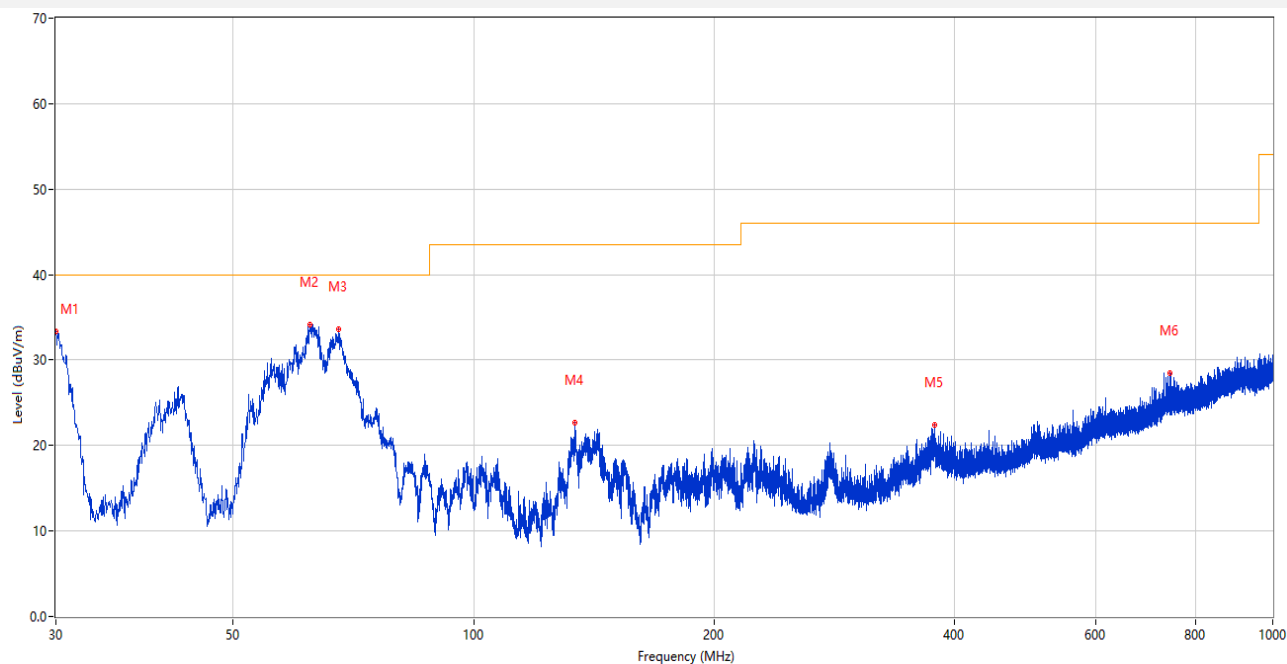
Main Antenna:

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	30.049	31.19	-28.89	40.0	8.81	Peak	307.00	100	Horizontal	Pass
2	62.931	24.14	-26.75	40.0	15.86	Peak	176.00	200	Horizontal	Pass
3	138.058	29.55	-29.43	43.5	13.95	Peak	37.00	200	Horizontal	Pass
4	172.833	29.34	-28.32	43.5	14.16	Peak	77.00	100	Horizontal	Pass
5	204.794	30.24	-26.32	43.5	13.26	Peak	84.00	100	Horizontal	Pass
6	878.702	30.65	-9.67	46.0	15.35	Peak	220.00	200	Horizontal	Pass

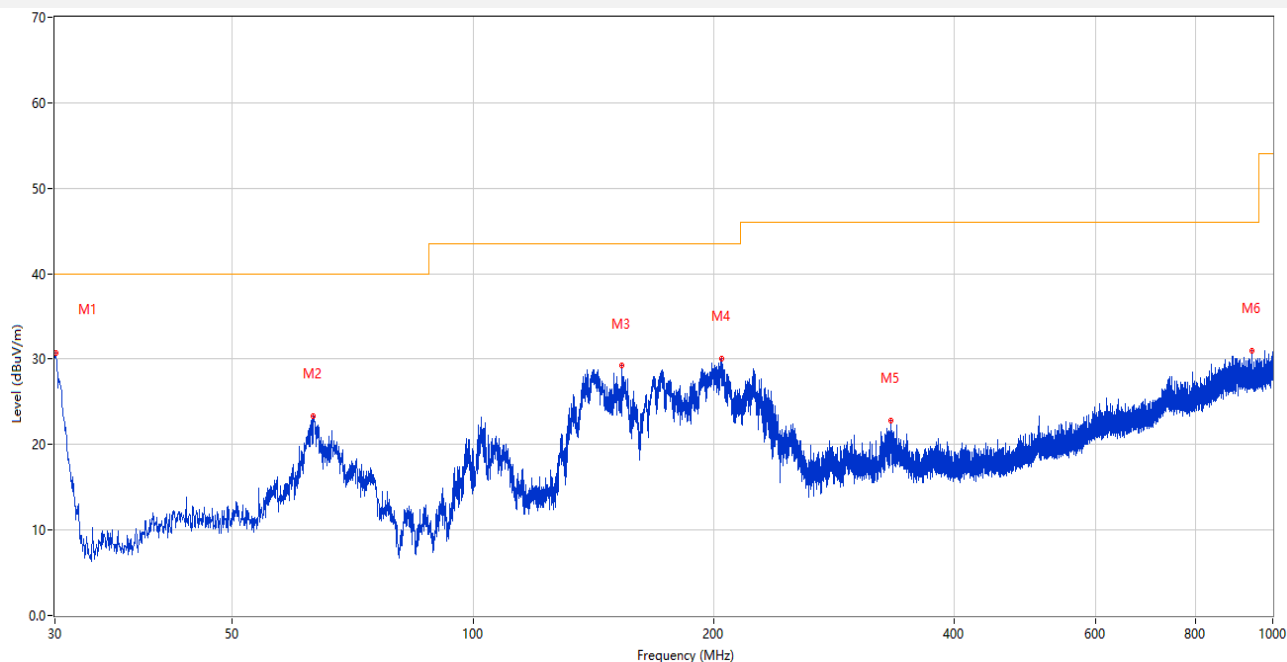
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.000	33.40	-28.88	40.0	6.60	Peak	355.00	100	Vertical	Pass
2	62.349	34.16	-26.60	40.0	5.84	Peak	227.00	200	Vertical	Pass
3	67.733	33.65	-28.23	40.0	6.35	Peak	66.00	100	Vertical	Pass
4	133.790	22.68	-29.26	43.5	20.82	Peak	343.00	200	Vertical	Pass
5	377.842	22.43	-21.04	46.0	23.57	Peak	16.00	100	Vertical	Pass
6	744.017	28.51	-11.98	46.0	17.49	Peak	227.00	100	Vertical	Pass

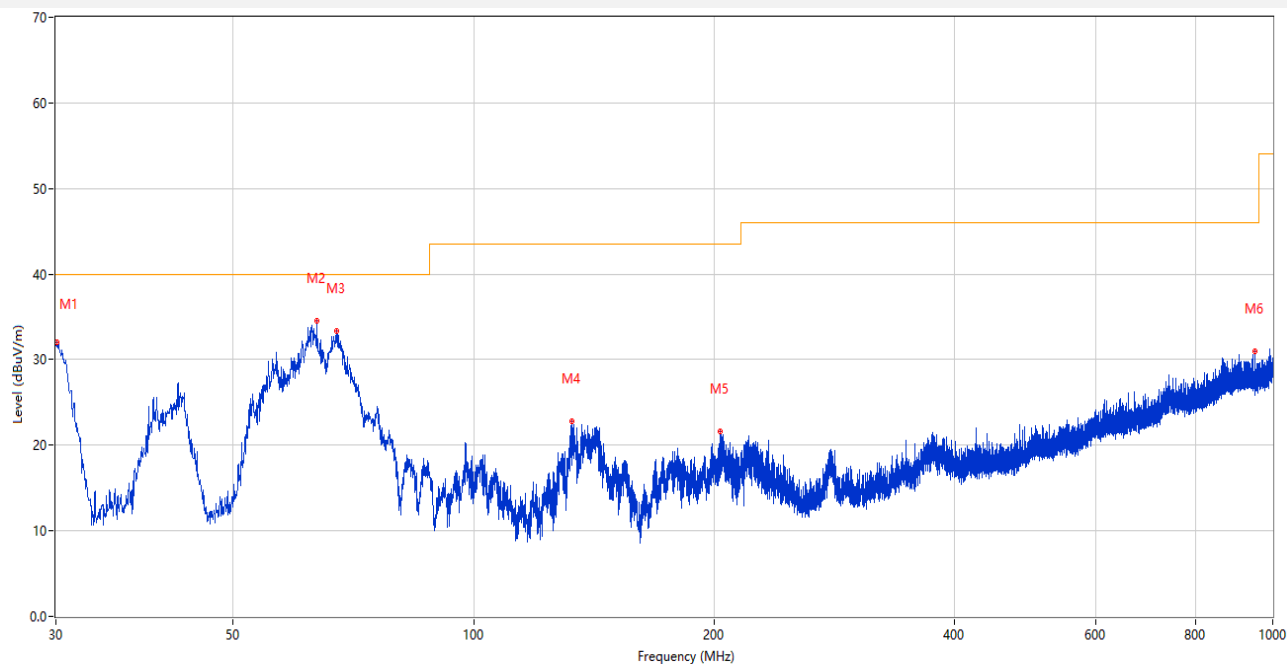
Aux. Antenna:

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	30.049	30.75	-28.89	40.0	9.25	Peak	347.00	100	Horizontal	Pass
2	63.174	23.36	-26.81	40.0	16.64	Peak	182.00	200	Horizontal	Pass
3	153.335	29.21	-29.38	43.5	14.29	Peak	213.00	100	Horizontal	Pass
4	204.406	30.02	-26.30	43.5	13.48	Peak	47.00	200	Horizontal	Pass
5	333.465	22.79	-22.28	46.0	23.21	Peak	262.00	100	Horizontal	Pass
6	942.334	31.01	-9.03	46.0	14.99	Peak	279.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



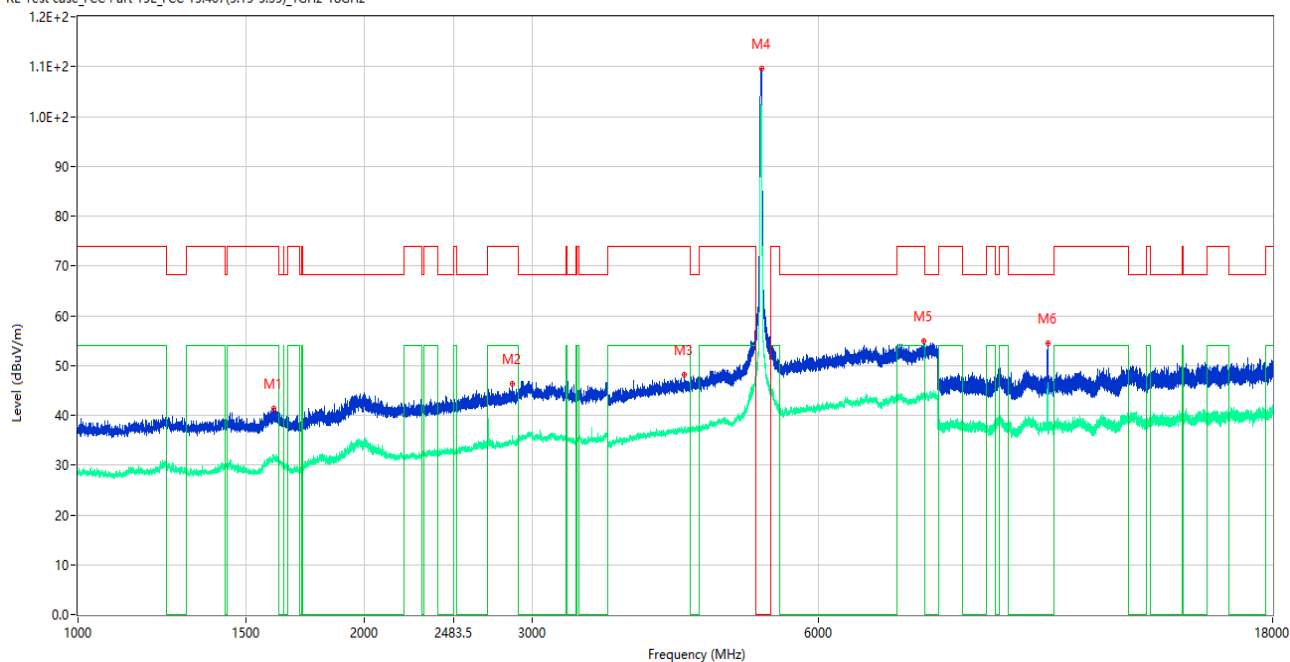
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.097	31.99	-28.90	40.0	8.01	Peak	360.00	100	Vertical	Pass
2	63.611	34.56	-26.92	40.0	5.44	Peak	156.00	200	Vertical	Pass
3	67.442	33.31	-28.14	40.0	6.69	Peak	83.00	100	Vertical	Pass
4	132.868	22.80	-29.20	43.5	20.70	Peak	284.00	100	Vertical	Pass
5	203.436	21.62	-26.23	43.5	21.88	Peak	168.00	200	Vertical	Pass
6	950.870	30.93	-9.04	46.0	15.07	Peak	360.00	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

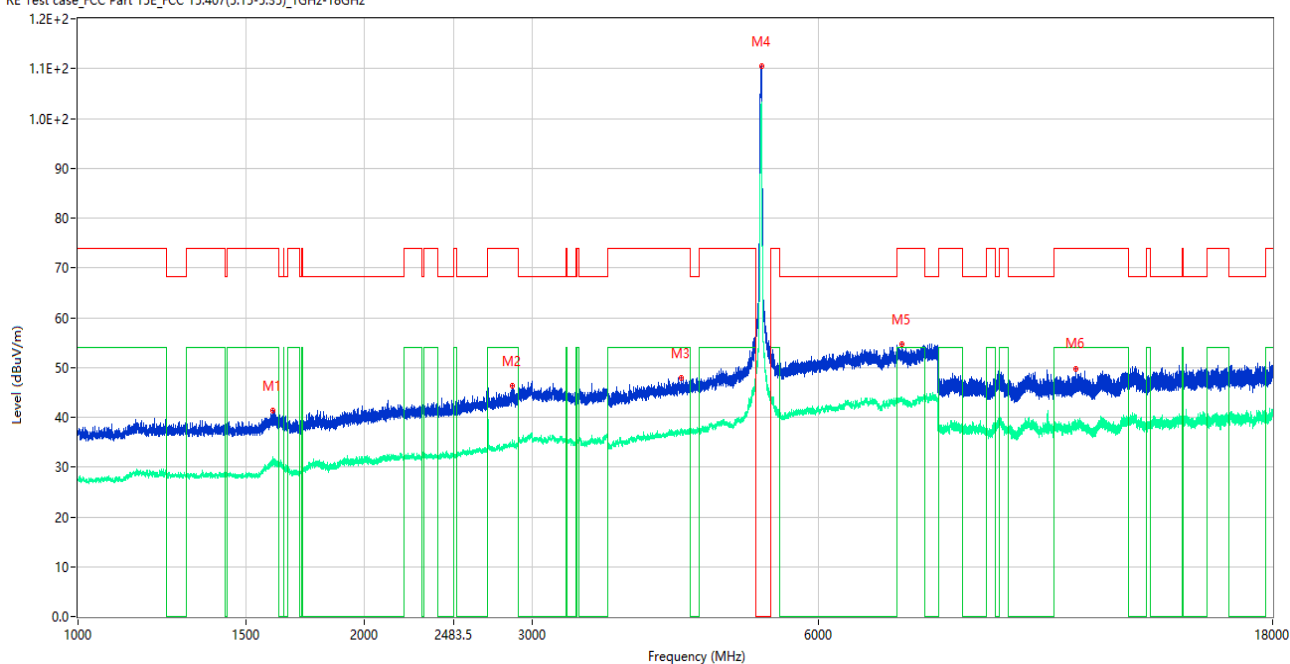
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1606.250	41.40	-15.23	74.0	32.60	Peak	277.00	150	Horizontal	Pass
1**	1606.250	32.03	-15.23	54.0	21.97	AV	277.00	150	Horizontal	Pass
2	2859.000	46.32	-7.62	74.0	27.68	Peak	277.00	150	Horizontal	Pass
2**	2859.000	34.96	-7.62	54.0	19.04	AV	277.00	150	Horizontal	Pass
3	4332.000	48.07	-2.54	74.0	25.93	Peak	127.00	150	Horizontal	Pass
3**	4332.000	37.04	-2.54	54.0	16.96	AV	127.00	150	Horizontal	Pass
4	5227.500	109.63	-0.82	--	29.37	Peak	139.00	150	Horizontal	N/A
4**	5227.500	102.10	-0.82	--	-102.10	AV	139.00	150	Horizontal	N/A
5	7745.500	54.86	3.51	74.0	19.14	Peak	0.00	150	Horizontal	Pass
5**	7745.500	43.69	3.51	54.0	10.31	AV	0.00	150	Horizontal	Pass
6	10445.776	54.50	-1.23	68.2	13.70	Peak	141.00	150	Horizontal	Pass
6**	10445.776	43.86	-1.23	--	-43.86	AV	141.00	150	Horizontal	N/A

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

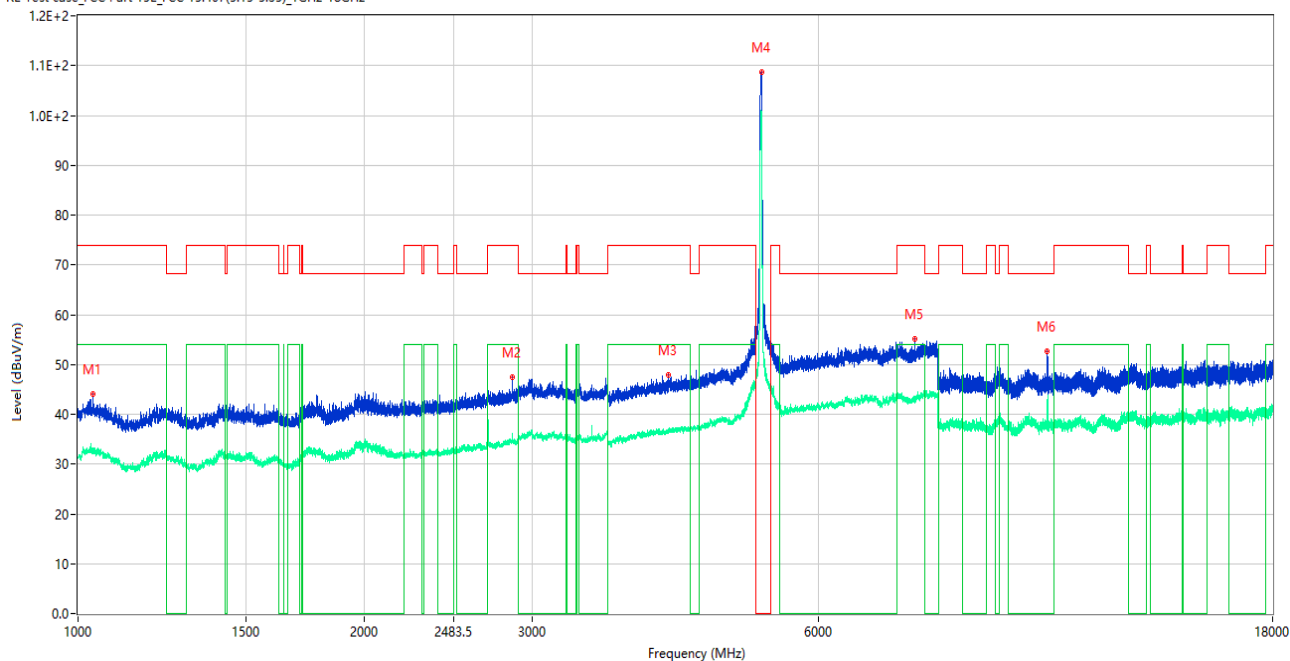
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1603.250	41.34	-15.25	74.0	32.66	Peak	173.00	150	Vertical	Pass
1**	1603.250	30.65	-15.25	54.0	23.35	AV	173.00	150	Vertical	Pass
2	2859.750	46.30	-7.60	74.0	27.70	Peak	115.00	150	Vertical	Pass
2**	2859.750	35.10	-7.60	54.0	18.90	AV	115.00	150	Vertical	Pass
3	4308.000	47.90	-2.73	74.0	26.10	Peak	178.00	150	Vertical	Pass
3**	4308.000	36.86	-2.73	54.0	17.14	AV	178.00	150	Vertical	Pass
4	5227.000	110.41	-0.81	--	48.59	Peak	159.00	150	Vertical	N/A
4**	5227.000	103.15	-0.81	--	-103.15	AV	159.00	150	Vertical	N/A
5	7341.500	54.59	3.20	74.0	19.41	Peak	318.00	150	Vertical	Pass
5**	7341.500	43.84	3.20	54.0	10.16	AV	318.00	150	Vertical	Pass
6	11173.713	49.83	-1.32	74.0	24.17	Peak	45.00	150	Vertical	Pass
6**	11173.713	37.88	-1.32	54.0	16.12	AV	45.00	150	Vertical	Pass

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

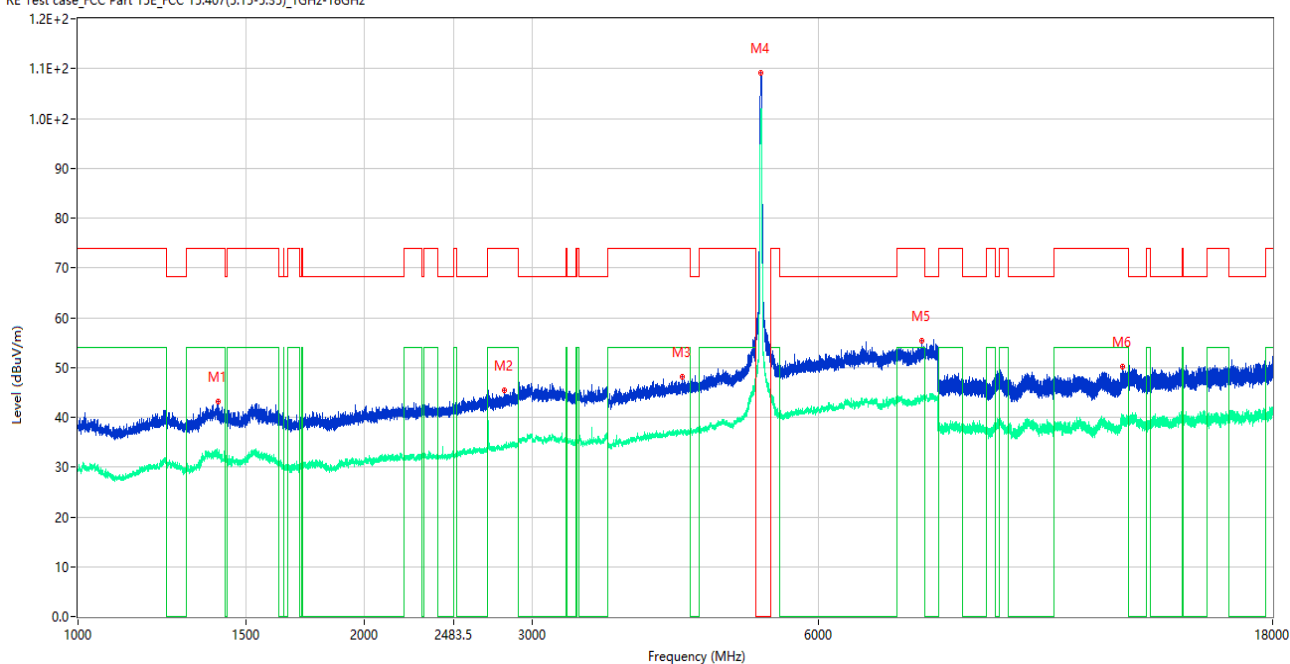
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1035.750	44.14	-15.83	74.0	29.86	Peak	237.00	150	Horizontal	Pass
1**	1035.750	33.08	-15.83	54.0	20.92	AV	237.00	150	Horizontal	Pass
2	2860.000	47.35	-7.58	74.0	26.65	Peak	137.00	150	Horizontal	Pass
2**	2860.000	35.63	-7.58	54.0	18.37	AV	137.00	150	Horizontal	Pass
3	4176.500	47.95	-3.14	74.0	26.05	Peak	99.00	150	Horizontal	Pass
3**	4176.500	36.72	-3.14	54.0	17.28	AV	99.00	150	Horizontal	Pass
4	5224.500	108.66	-0.80	--	30.34	Peak	139.00	150	Horizontal	N/A
4**	5224.500	100.14	-0.80	--	-100.14	AV	139.00	150	Horizontal	N/A
5	7578.000	55.18	3.05	74.0	18.82	Peak	355.00	150	Horizontal	Pass
5**	7578.000	42.65	3.05	54.0	11.35	AV	355.00	150	Horizontal	Pass
6	10436.513	52.65	-1.21	68.2	15.55	Peak	139.00	150	Horizontal	Pass
6**	10436.513	42.15	-1.21	--	-42.15	AV	139.00	150	Horizontal	N/A

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

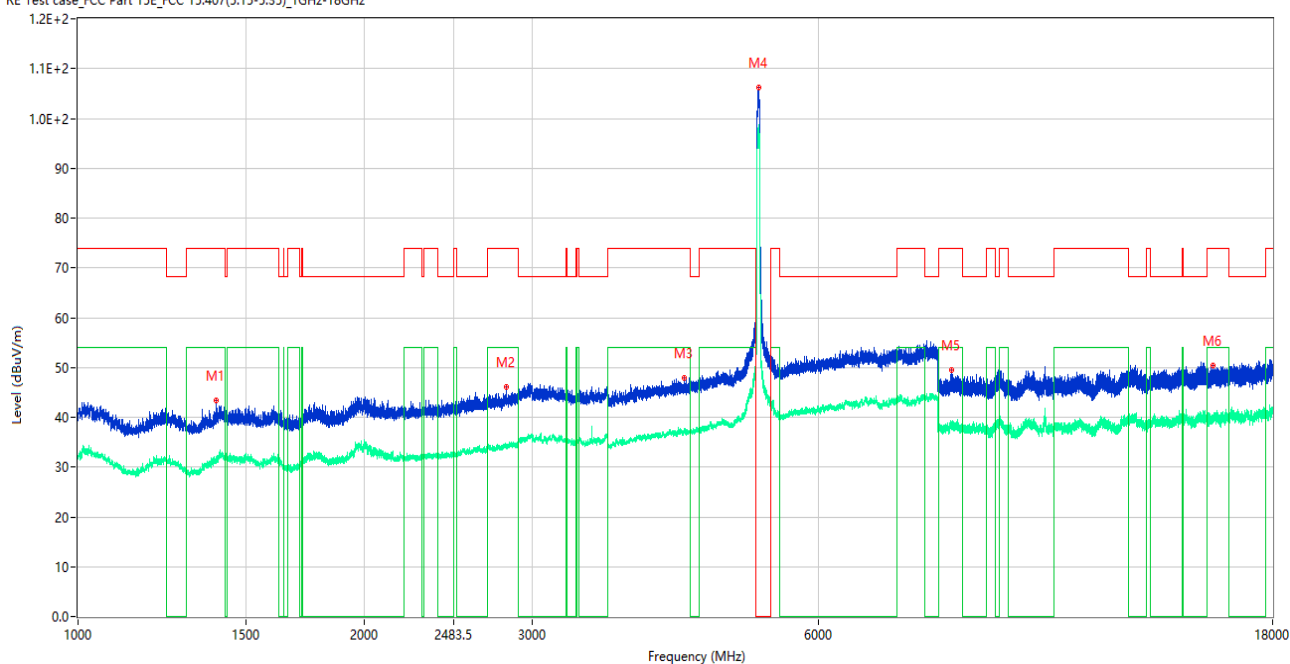
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1402.500	43.20	-15.37	74.0	30.80	Peak	148.00	150	Vertical	Pass
1**	1402.500	32.31	-15.37	54.0	21.69	AV	148.00	150	Vertical	Pass
2	2806.000	45.42	-8.37	74.0	28.58	Peak	80.00	150	Vertical	Pass
2**	2806.000	34.01	-8.37	54.0	19.99	AV	80.00	150	Vertical	Pass
3	4311.500	48.20	-2.77	74.0	25.80	Peak	198.00	150	Vertical	Pass
3**	4311.500	37.11	-2.77	54.0	16.89	AV	198.00	150	Vertical	Pass
4	5212.000	109.07	-0.96	--	47.93	Peak	157.00	150	Vertical	N/A
4**	5212.000	100.22	-0.96	--	-100.22	AV	157.00	150	Vertical	N/A
5	7710.000	55.30	3.59	74.0	18.70	Peak	351.00	150	Vertical	Pass
5**	7710.000	43.95	3.59	54.0	10.05	AV	351.00	150	Vertical	Pass
6	12522.000	50.06	-0.28	74.0	23.94	Peak	138.00	150	Vertical	Pass
6**	12522.000	38.86	-0.28	54.0	15.14	AV	138.00	150	Vertical	Pass

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

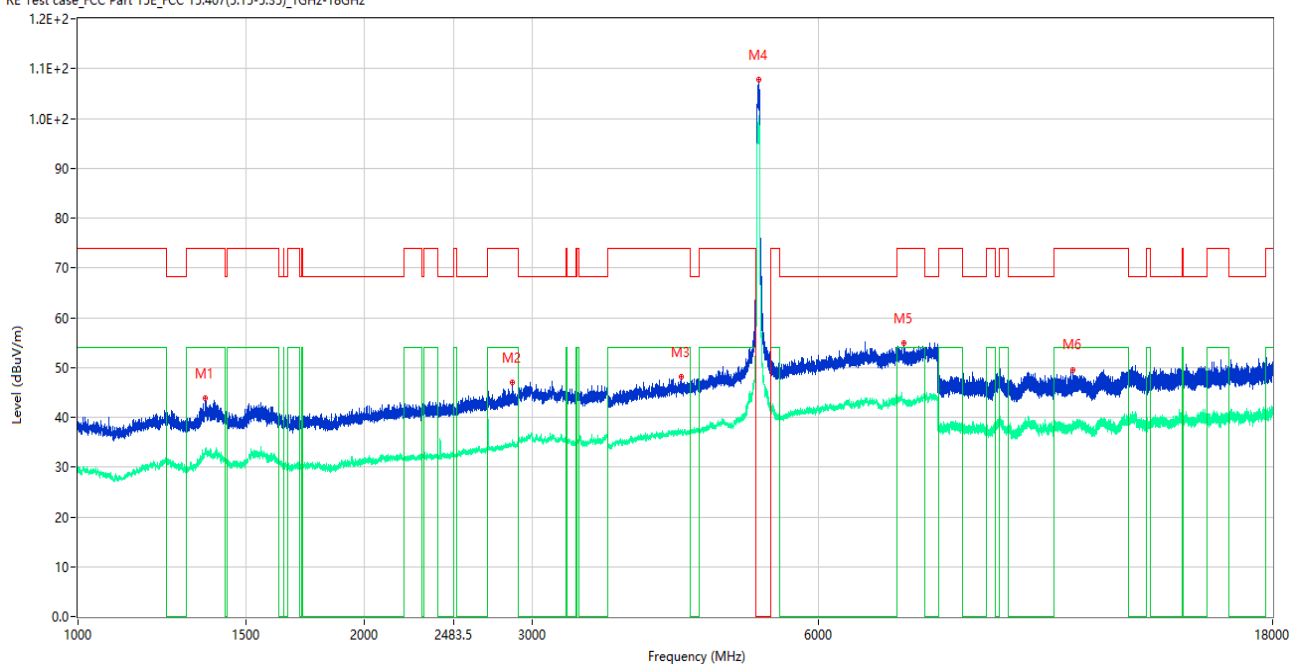
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1398.000	43.31	-15.42	74.0	30.69	Peak	236.00	150	Horizontal	Pass
1**	1398.000	31.47	-15.42	54.0	22.53	AV	236.00	150	Horizontal	Pass
2	2820.000	46.04	-8.16	74.0	27.96	Peak	1.00	150	Horizontal	Pass
2**	2820.000	33.99	-8.16	54.0	20.01	AV	1.00	150	Horizontal	Pass
3	4331.500	47.83	-2.57	74.0	26.17	Peak	99.00	150	Horizontal	Pass
3**	4331.500	37.19	-2.57	54.0	16.81	AV	99.00	150	Horizontal	Pass
4	5188.000	106.16	-0.99	--	42.84	Peak	149.00	150	Horizontal	N/A
4**	5188.000	98.55	-0.99	--	-98.55	AV	149.00	150	Horizontal	N/A
5	8282.862	49.40	-2.02	74.0	24.60	Peak	89.00	150	Horizontal	Pass
5**	8282.862	38.19	-2.02	54.0	15.81	AV	89.00	150	Horizontal	Pass
6	15574.237	50.30	0.18	74.0	23.70	Peak	50.00	150	Horizontal	Pass
6**	15574.237	39.37	0.18	54.0	14.63	AV	50.00	150	Horizontal	Pass

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

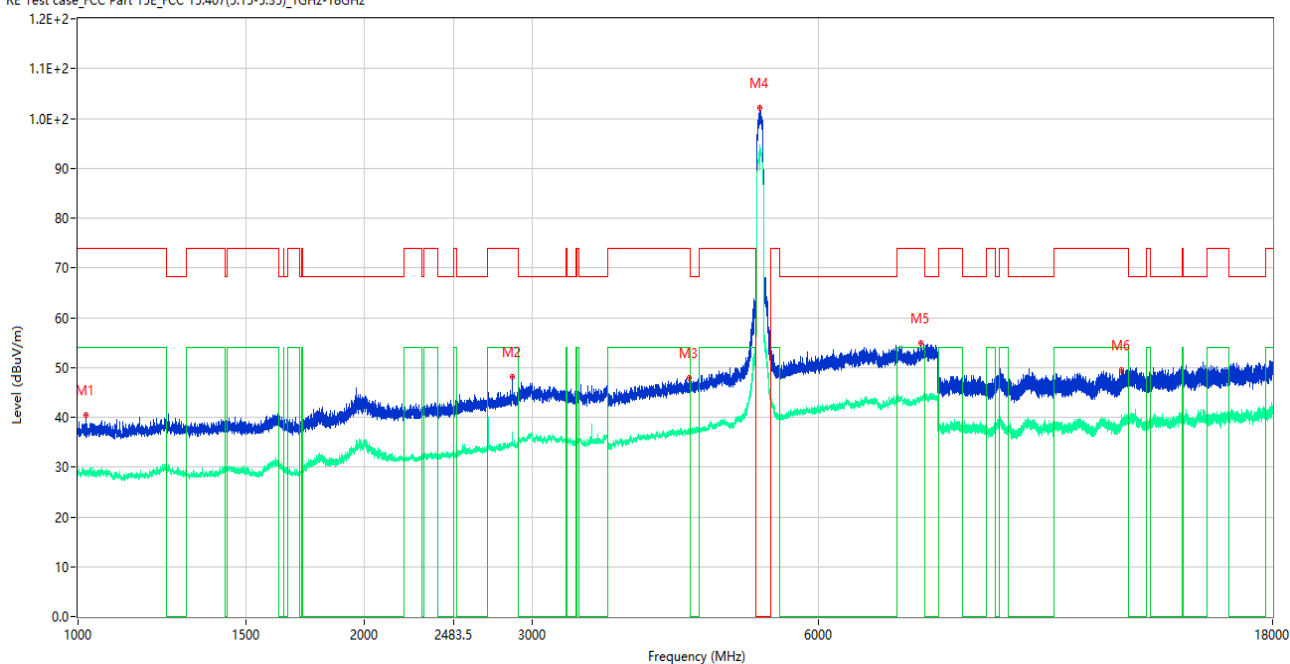
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1359.500	43.90	-15.34	74.0	30.10	Peak	143.00	150	Vertical	Pass
1**	1359.500	32.68	-15.34	54.0	21.32	AV	143.00	150	Vertical	Pass
2	2860.750	47.01	-7.55	74.0	26.99	Peak	124.00	150	Vertical	Pass
2**	2860.750	35.44	-7.55	54.0	18.56	AV	124.00	150	Vertical	Pass
3	4300.000	48.07	-2.86	74.0	25.93	Peak	40.00	150	Vertical	Pass
3**	4300.000	37.07	-2.86	54.0	16.93	AV	40.00	150	Vertical	Pass
4	5188.500	107.73	-0.99	--	43.27	Peak	151.00	150	Vertical	N/A
4**	5188.500	99.90	-0.99	--	-99.90	AV	151.00	150	Vertical	N/A
5	7377.000	54.92	2.46	74.0	19.08	Peak	353.00	150	Vertical	Pass
5**	7377.000	43.62	2.46	54.0	10.38	AV	353.00	150	Vertical	Pass
6	11092.013	49.57	-1.16	74.0	24.43	Peak	308.00	150	Vertical	Pass
6**	11092.013	37.95	-1.16	54.0	16.05	AV	308.00	150	Vertical	Pass

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

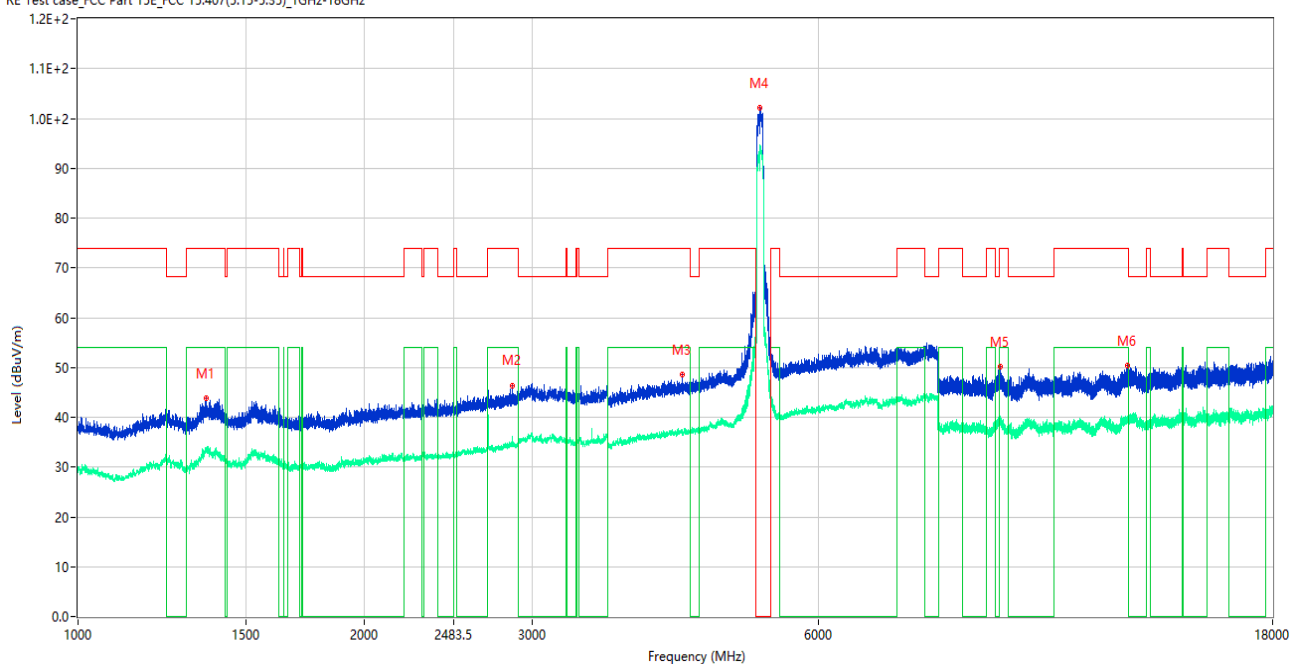
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1019.250	40.47	-15.78	74.0	33.53	Peak	245.00	150	Horizontal	Pass
1**	1019.250	29.15	-15.78	54.0	24.85	AV	245.00	150	Horizontal	Pass
2	2860.250	48.11	-7.57	74.0	25.89	Peak	273.00	150	Horizontal	Pass
2**	2860.250	36.61	-7.57	54.0	17.39	AV	273.00	150	Horizontal	Pass
3	4390.000	47.90	-2.92	74.0	26.10	Peak	0.00	150	Horizontal	Pass
3**	4390.000	37.04	-2.92	54.0	16.96	AV	0.00	150	Horizontal	Pass
4	5207.000	102.12	-0.87	--	58.88	Peak	161.00	150	Horizontal	N/A
4**	5207.000	93.98	-0.87	--	-93.98	AV	161.00	150	Horizontal	N/A
5	7689.500	54.81	3.40	74.0	19.19	Peak	301.00	150	Horizontal	Pass
5**	7689.500	43.86	3.40	54.0	10.14	AV	301.00	150	Horizontal	Pass
6	12502.050	49.43	-0.08	74.0	24.57	Peak	186.00	150	Horizontal	Pass
6**	12502.050	38.96	-0.08	54.0	15.04	AV	186.00	150	Horizontal	Pass

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

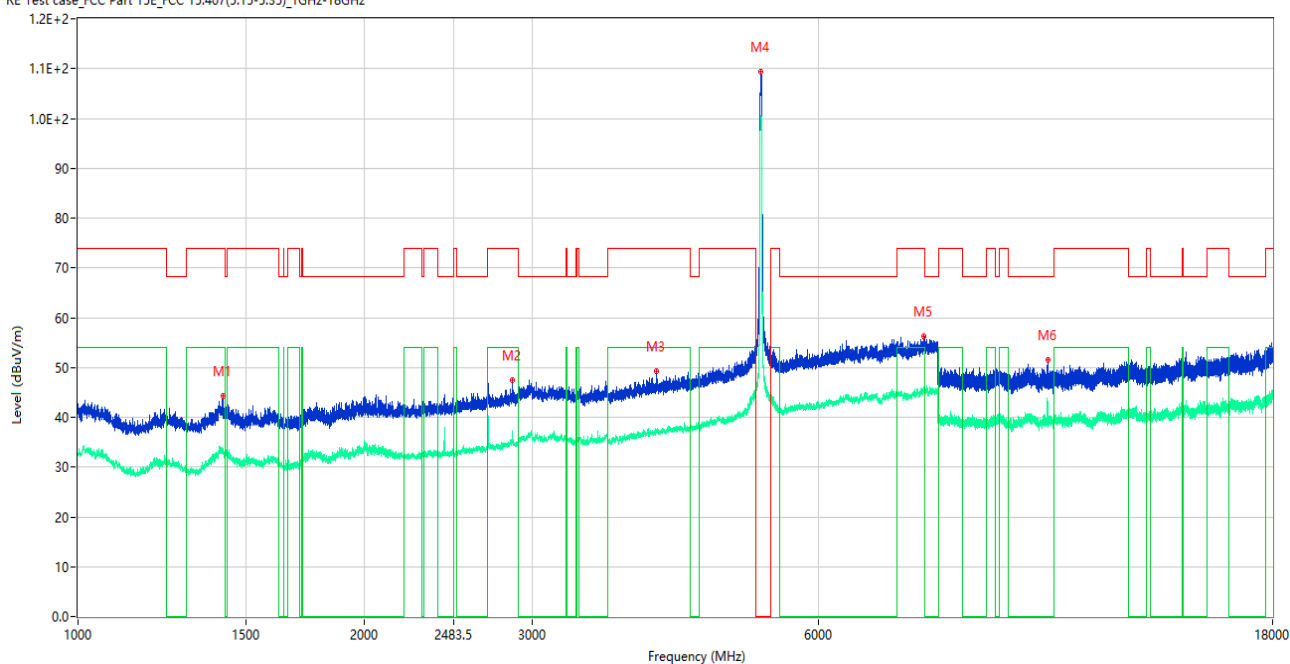
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1362.500	43.76	-15.37	74.0	30.24	Peak	146.00	150	Vertical	Pass
1**	1362.500	33.52	-15.37	54.0	20.48	AV	146.00	150	Vertical	Pass
2	2860.000	46.42	-7.58	74.0	27.58	Peak	123.00	150	Vertical	Pass
2**	2860.000	35.42	-7.58	54.0	18.58	AV	123.00	150	Vertical	Pass
3	4313.000	48.60	-2.82	74.0	25.40	Peak	260.00	150	Vertical	Pass
3**	4313.000	36.93	-2.82	54.0	17.07	AV	260.00	150	Vertical	Pass
4	5203.500	102.12	-0.94	--	47.88	Peak	150.00	150	Vertical	N/A
4**	5203.500	93.20	-0.94	--	-93.20	AV	150.00	150	Vertical	N/A
5	9304.112	50.08	-1.91	74.0	23.92	Peak	237.00	150	Vertical	Pass
5**	9304.112	39.57	-1.91	54.0	14.43	AV	237.00	150	Vertical	Pass
6	12683.737	50.41	-0.16	74.0	23.59	Peak	237.00	150	Vertical	Pass
6**	12683.737	39.20	-0.16	54.0	14.80	AV	237.00	150	Vertical	Pass

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

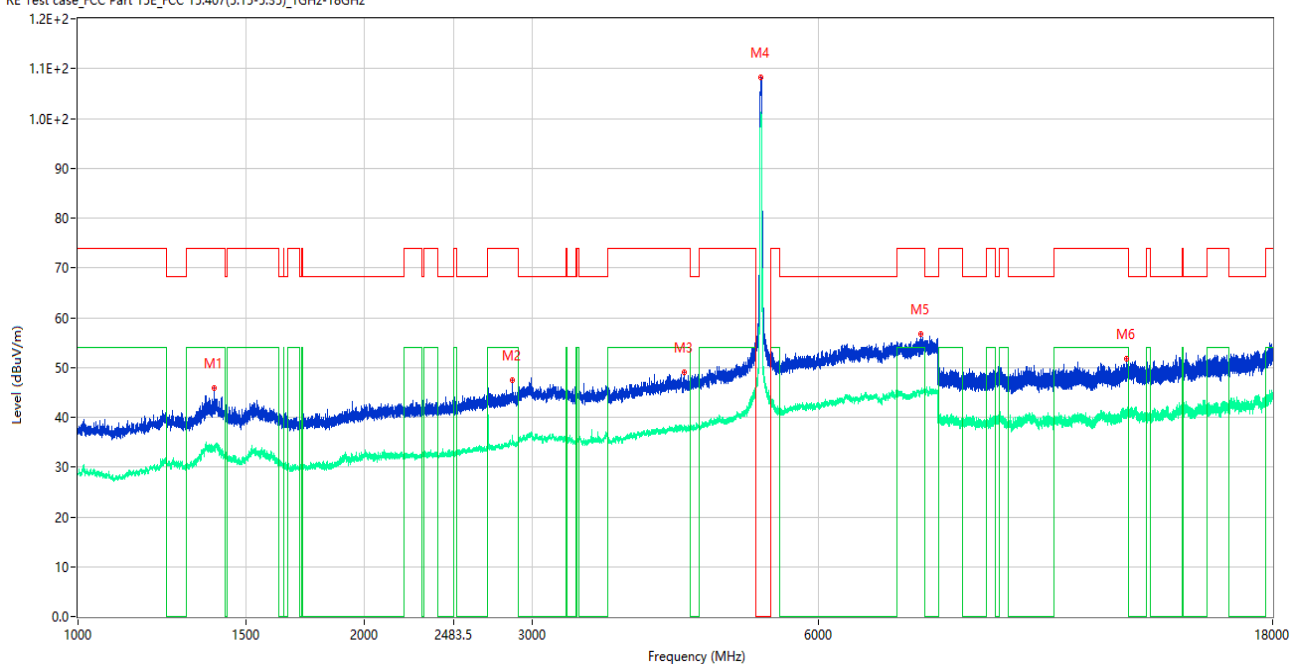
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1420.000	44.26	-15.39	74.0	29.74	Peak	251.00	150	Horizontal	Pass
1**	1420.000	33.12	-15.39	54.0	20.88	AV	251.00	150	Horizontal	Pass
2	2861.250	47.54	-7.55	74.0	26.46	Peak	269.00	150	Horizontal	Pass
2**	2861.250	35.79	-7.55	54.0	18.21	AV	269.00	150	Horizontal	Pass
3	4052.000	49.22	-3.04	74.0	24.78	Peak	233.00	150	Horizontal	Pass
3**	4052.000	37.33	-3.04	54.0	16.67	AV	233.00	150	Horizontal	Pass
4	5217.000	109.36	-0.92	--	42.64	Peak	152.00	150	Horizontal	N/A
4**	5217.000	100.09	-0.92	--	-100.09	AV	152.00	150	Horizontal	N/A
5	7740.000	56.20	3.36	74.0	17.80	Peak	184.00	150	Horizontal	Pass
5**	7740.000	45.72	3.36	54.0	8.28	AV	184.00	150	Horizontal	Pass
6	10442.213	51.48	-1.07	68.2	16.72	Peak	139.00	150	Horizontal	Pass
6**	10442.213	42.16	-1.07	--	-42.16	AV	139.00	150	Horizontal	N/A

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

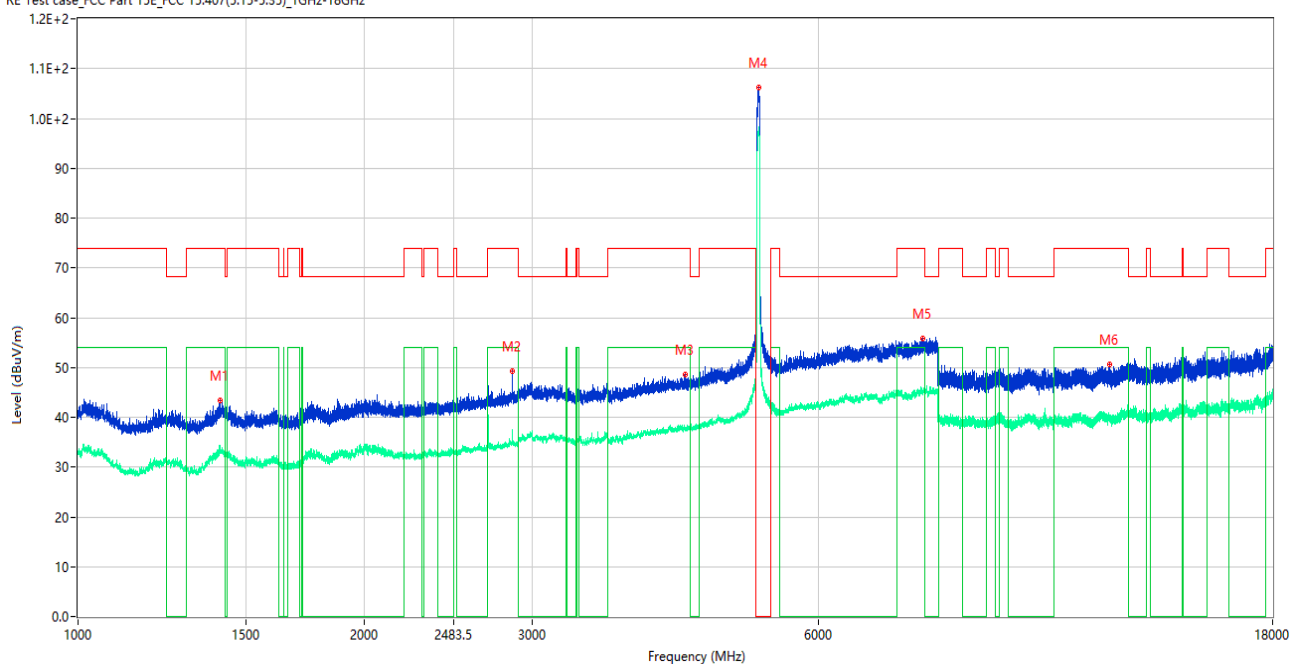
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1390.500	45.93	-15.49	74.0	28.07	Peak	142.00	150	Vertical	Pass
1**	1390.500	33.44	-15.49	54.0	20.56	AV	142.00	150	Vertical	Pass
2	2860.000	47.44	-7.58	74.0	26.56	Peak	245.00	150	Vertical	Pass
2**	2860.000	35.69	-7.58	54.0	18.31	AV	245.00	150	Vertical	Pass
3	4338.000	48.96	-2.35	74.0	25.04	Peak	0.00	150	Vertical	Pass
3**	4338.000	37.87	-2.35	54.0	16.13	AV	0.00	150	Vertical	Pass
4	5220.500	108.24	-0.85	--	44.76	Peak	153.00	150	Vertical	N/A
4**	5220.500	99.43	-0.85	--	-99.43	AV	153.00	150	Vertical	N/A
5	7686.000	56.78	3.36	74.0	17.22	Peak	262.00	150	Vertical	Pass
5**	7686.000	45.30	3.36	54.0	8.70	AV	262.00	150	Vertical	Pass
6	12650.963	51.66	-0.44	74.0	22.34	Peak	139.00	150	Vertical	Pass
6**	12650.963	40.48	-0.44	54.0	13.52	AV	139.00	150	Vertical	Pass

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

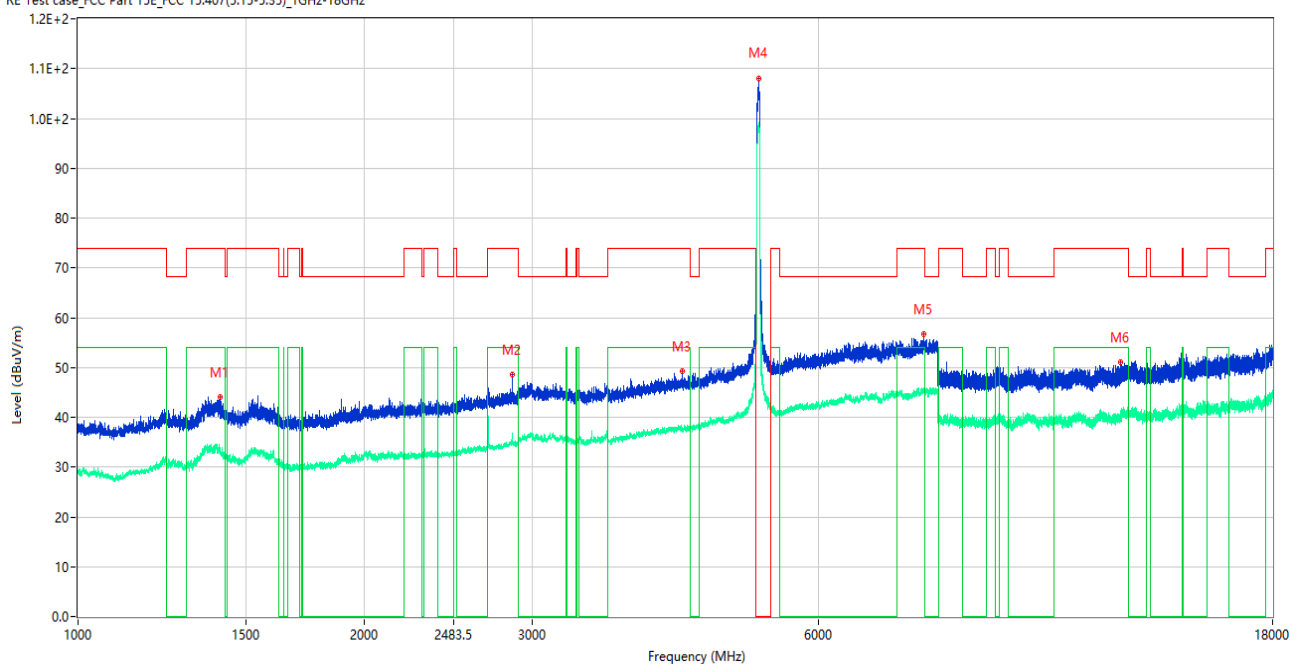
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1409.250	43.43	-15.38	74.0	30.57	Peak	237.00	150	Horizontal	Pass
1**	1409.250	33.39	-15.38	54.0	20.61	AV	237.00	150	Horizontal	Pass
2	2861.000	49.19	-7.55	74.0	24.81	Peak	148.00	150	Horizontal	Pass
2**	2861.000	36.33	-7.55	54.0	17.67	AV	148.00	150	Horizontal	Pass
3	4347.000	48.48	-2.42	74.0	25.52	Peak	334.00	150	Horizontal	Pass
3**	4347.000	37.83	-2.42	54.0	16.17	AV	334.00	150	Horizontal	Pass
4	5191.500	106.23	-1.06	--	37.77	Peak	144.00	150	Horizontal	N/A
4**	5191.500	98.16	-1.06	--	-98.16	AV	144.00	150	Horizontal	N/A
5	7727.000	55.82	3.03	74.0	18.18	Peak	195.00	150	Horizontal	Pass
5**	7727.000	45.33	3.03	54.0	8.67	AV	195.00	150	Horizontal	Pass
6	12126.562	50.55	-1.17	74.0	23.45	Peak	360.00	150	Horizontal	Pass
6**	12126.562	39.42	-1.17	54.0	14.58	AV	360.00	150	Horizontal	Pass

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

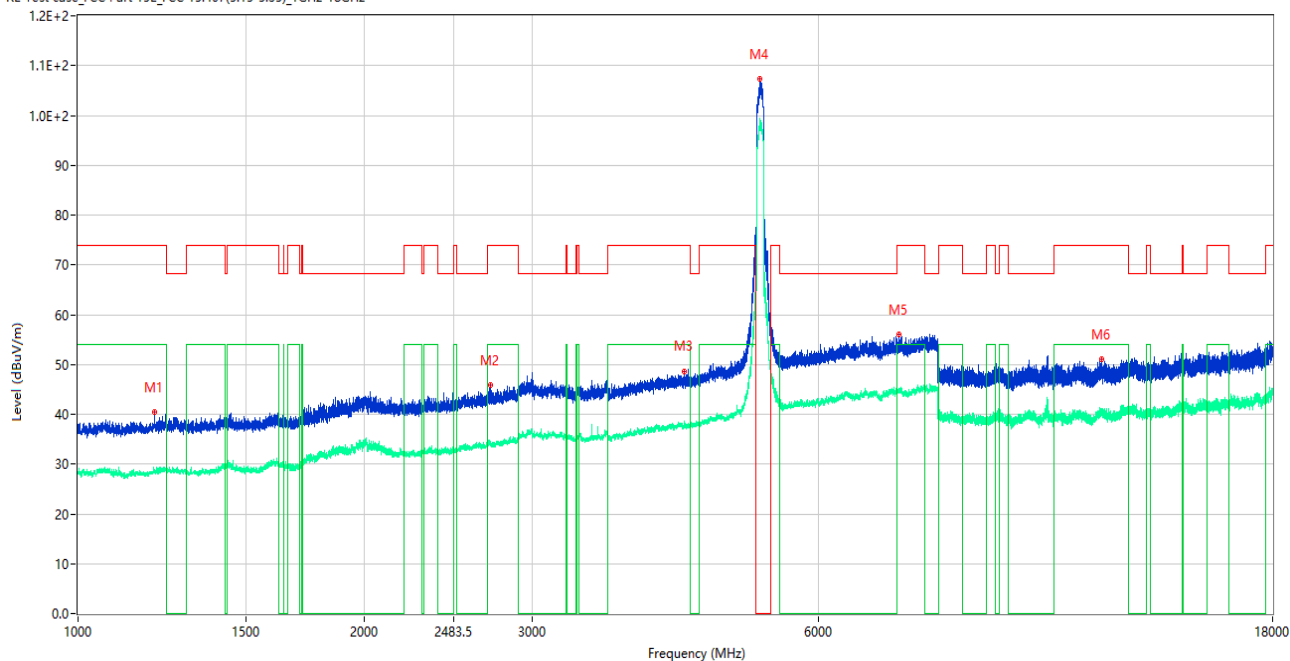
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1411.000	44.09	-15.37	74.0	29.91	Peak	108.00	150	Vertical	Pass
1**	1411.000	32.86	-15.37	54.0	21.14	AV	108.00	150	Vertical	Pass
2	2859.750	48.61	-7.60	74.0	25.39	Peak	251.00	150	Vertical	Pass
2**	2859.750	36.21	-7.60	54.0	17.79	AV	251.00	150	Vertical	Pass
3	4312.000	49.35	-2.78	74.0	24.65	Peak	190.00	150	Vertical	Pass
3**	4312.000	37.57	-2.78	54.0	16.43	AV	190.00	150	Vertical	Pass
4	5193.500	108.13	-1.11	--	52.87	Peak	161.00	150	Vertical	N/A
4**	5193.500	99.11	-1.11	--	-99.11	AV	161.00	150	Vertical	N/A
5	7743.500	56.64	3.43	74.0	17.36	Peak	0.00	150	Vertical	Pass
5**	7743.500	45.17	3.43	54.0	8.83	AV	0.00	150	Vertical	Pass
6	12455.262	50.98	-0.11	74.0	23.02	Peak	308.00	150	Vertical	Pass
6**	12455.262	40.79	-0.11	54.0	13.21	AV	308.00	150	Vertical	Pass

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

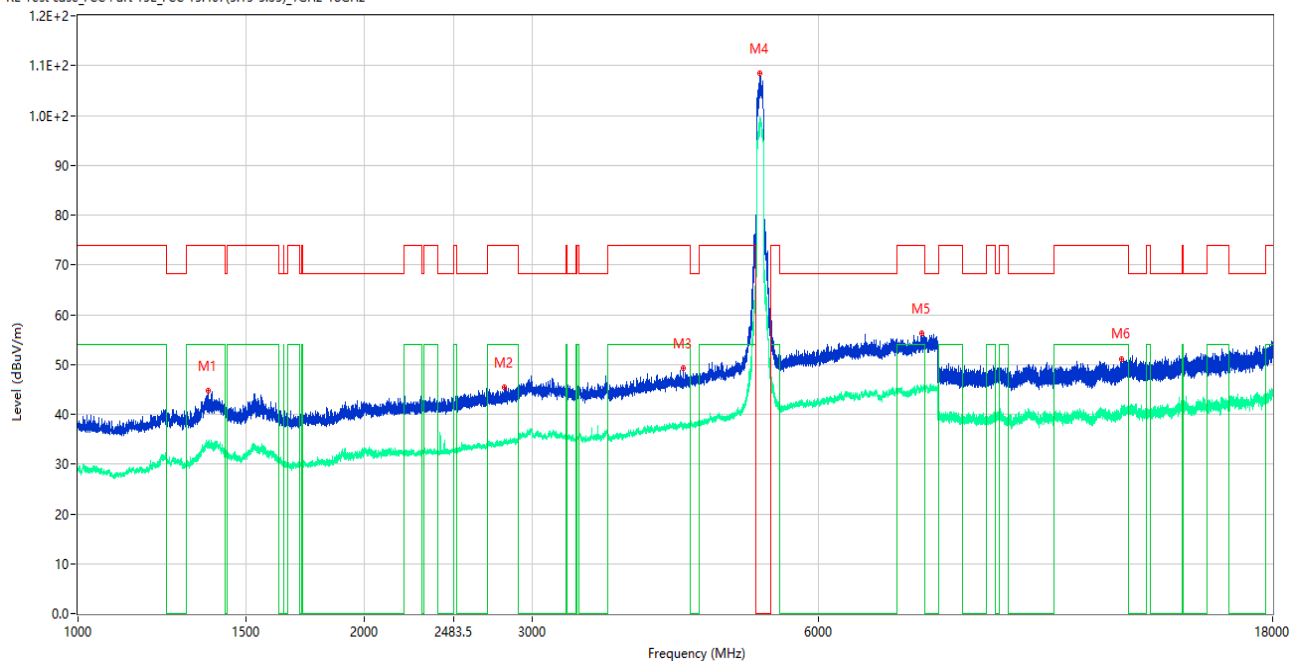
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1204.000	40.46	-15.33	74.0	33.54	Peak	301.00	150	Horizontal	Pass
1**	1204.000	28.29	-15.33	54.0	25.71	AV	301.00	150	Horizontal	Pass
2	2715.250	45.85	-8.33	74.0	28.15	Peak	141.00	150	Horizontal	Pass
2**	2715.250	34.02	-8.33	54.0	19.98	AV	141.00	150	Horizontal	Pass
3	4334.500	48.70	-2.41	74.0	25.30	Peak	241.00	150	Horizontal	Pass
3**	4334.500	37.85	-2.41	54.0	16.15	AV	241.00	150	Horizontal	Pass
4	5208.000	107.37	-0.87	--	31.63	Peak	139.00	150	Horizontal	N/A
4**	5208.000	98.68	-0.87	--	-98.68	AV	139.00	150	Horizontal	N/A
5	7292.000	56.05	2.66	74.0	17.95	Peak	0.00	150	Horizontal	Pass
5**	7292.000	44.64	2.66	54.0	9.36	AV	0.00	150	Horizontal	Pass
6	11910.200	51.15	-1.03	74.0	22.85	Peak	1.00	150	Horizontal	Pass
6**	11910.200	40.15	-1.03	54.0	13.85	AV	1.00	150	Horizontal	Pass

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

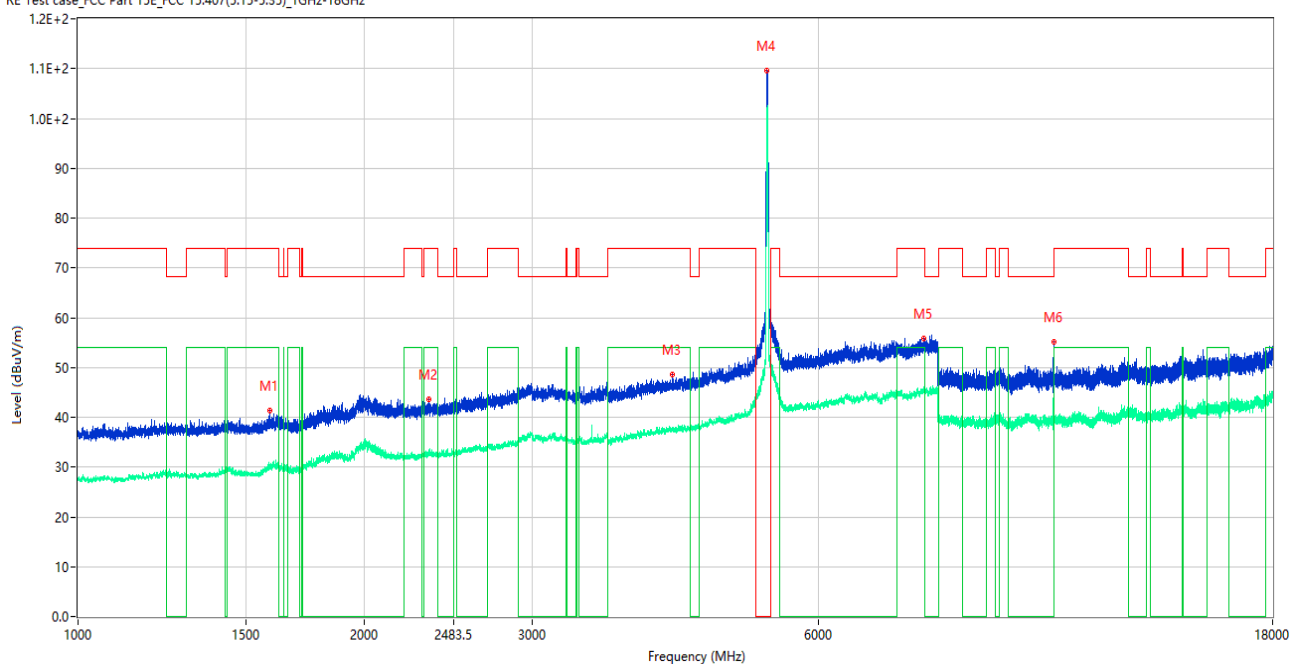
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1371.250	44.68	-15.57	74.0	29.32	Peak	144.00	150	Vertical	Pass
1**	1371.250	34.16	-15.57	54.0	19.84	AV	144.00	150	Vertical	Pass
2	2807.750	45.36	-8.31	74.0	28.64	Peak	157.00	150	Vertical	Pass
2**	2807.750	34.41	-8.31	54.0	19.59	AV	157.00	150	Vertical	Pass
3	4323.500	49.27	-2.93	74.0	24.73	Peak	5.00	150	Vertical	Pass
3**	4323.500	37.58	-2.93	54.0	16.42	AV	5.00	150	Vertical	Pass
4	5208.500	108.41	-0.89	--	43.59	Peak	152.00	150	Vertical	N/A
4**	5208.500	99.05	-0.89	--	-99.05	AV	152.00	150	Vertical	N/A
5	7695.500	56.34	3.59	74.0	17.66	Peak	357.00	150	Vertical	Pass
5**	7695.500	45.07	3.59	54.0	8.93	AV	357.00	150	Vertical	Pass
6	12485.662	51.10	0.19	74.0	22.90	Peak	162.00	150	Vertical	Pass
6**	12485.662	40.71	0.19	54.0	13.29	AV	162.00	150	Vertical	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

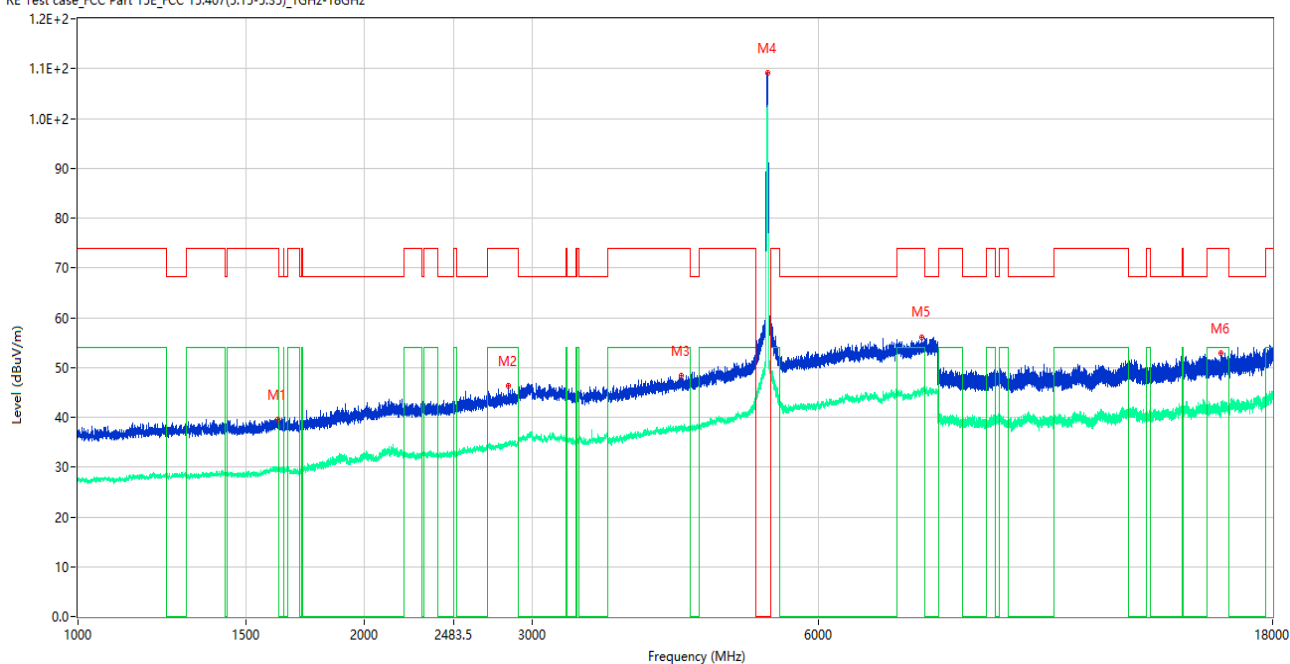
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1588.750	41.26	-15.55	74.0	32.74	Peak	237.00	150	Horizontal	Pass
1**	1588.750	29.51	-15.55	54.0	24.49	AV	237.00	150	Horizontal	Pass
2	2334.250	43.53	-10.85	74.0	30.47	Peak	269.00	150	Horizontal	Pass
2**	2334.250	32.72	-10.85	54.0	21.28	AV	269.00	150	Horizontal	Pass
3	4213.500	48.51	-2.52	74.0	25.49	Peak	0.00	150	Horizontal	Pass
3**	4213.500	37.36	-2.52	54.0	16.64	AV	0.00	150	Horizontal	Pass
4	5296.500	109.66	-0.50	--	42.34	Peak	152.00	150	Horizontal	N/A
4**	5296.500	101.72	-0.50	--	-101.72	AV	152.00	150	Horizontal	N/A
5	7731.000	55.89	3.16	74.0	18.11	Peak	40.00	150	Horizontal	Pass
5**	7731.000	45.45	3.16	54.0	8.55	AV	40.00	150	Horizontal	Pass
6	10596.588	55.07	-1.17	68.2	13.13	Peak	139.00	150	Horizontal	Pass
6**	10596.588	44.45	-1.17	--	-44.45	AV	139.00	150	Horizontal	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

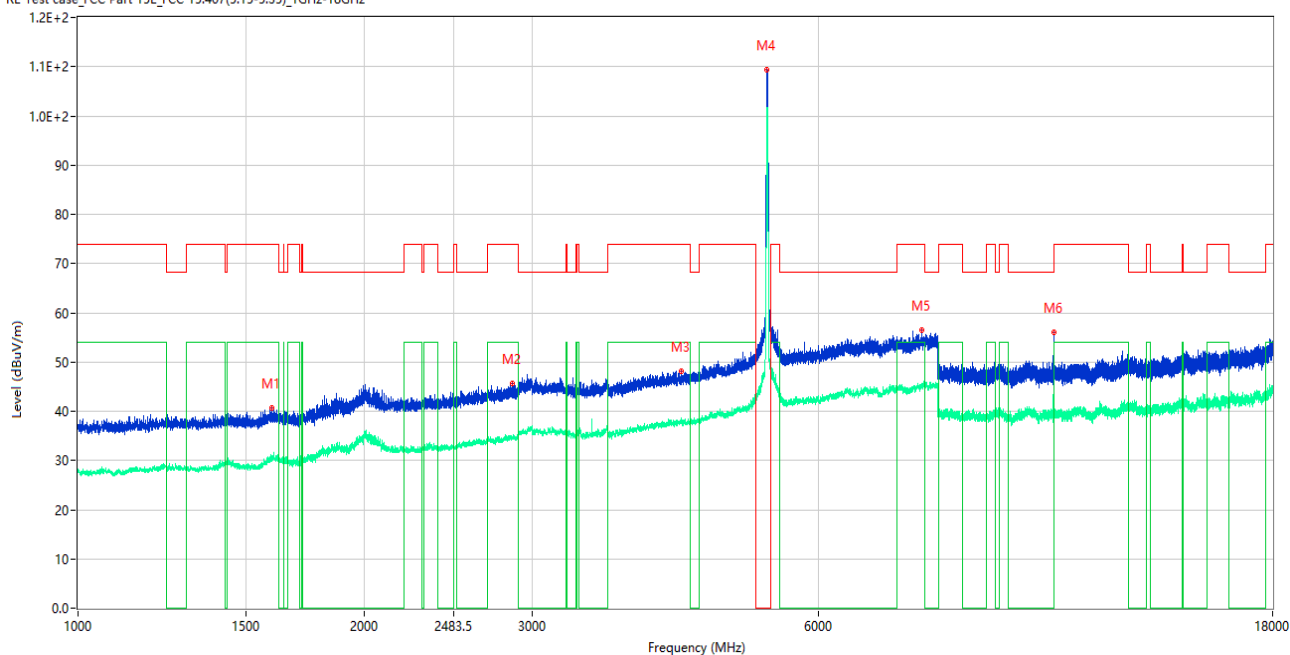
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1623.000	39.58	-15.24	74.0	34.42	Peak	224.00	150	Vertical	Pass
1**	1623.000	29.83	-15.24	54.0	24.17	AV	224.00	150	Vertical	Pass
2	2832.500	46.33	-8.01	74.0	27.67	Peak	64.00	150	Vertical	Pass
2**	2832.500	34.35	-8.01	54.0	19.65	AV	64.00	150	Vertical	Pass
3	4306.500	48.25	-2.73	74.0	25.75	Peak	4.00	150	Vertical	Pass
3**	4306.500	38.38	-2.73	54.0	15.62	AV	4.00	150	Vertical	Pass
4	5303.000	109.17	-0.57	--	40.83	Peak	150.00	150	Vertical	N/A
4**	5303.000	101.54	-0.57	--	-101.54	AV	150.00	150	Vertical	N/A
5	7699.500	56.10	3.71	74.0	17.90	Peak	160.00	150	Vertical	Pass
5**	7699.500	45.70	3.71	54.0	8.30	AV	160.00	150	Vertical	Pass
6	15899.475	52.86	1.58	74.0	21.14	Peak	15.00	150	Vertical	Pass
6**	15899.475	42.35	1.58	54.0	11.65	AV	15.00	150	Vertical	Pass

11ac20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

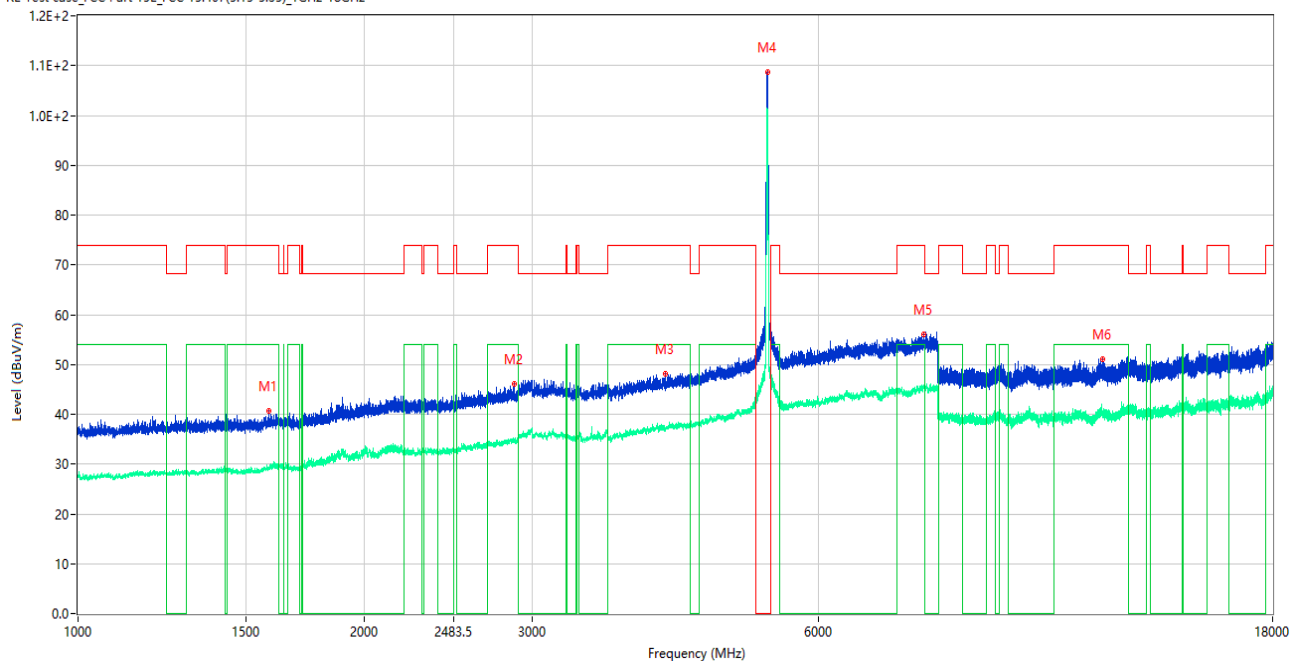
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.750	40.69	-15.28	74.0	33.31	Peak	256.00	150	Horizontal	Pass
1**	1599.750	30.39	-15.28	54.0	23.61	AV	256.00	150	Horizontal	Pass
2	2863.250	45.58	-7.54	74.0	28.42	Peak	215.00	150	Horizontal	Pass
2**	2863.250	34.42	-7.54	54.0	19.58	AV	215.00	150	Horizontal	Pass
3	4302.000	48.04	-2.77	74.0	25.96	Peak	119.00	150	Horizontal	Pass
3**	4302.000	38.14	-2.77	54.0	15.86	AV	119.00	150	Horizontal	Pass
4	5299.000	109.40	-0.52	--	28.60	Peak	138.00	150	Horizontal	N/A
4**	5299.000	101.60	-0.52	--	-101.60	AV	138.00	150	Horizontal	N/A
5	7703.000	56.41	3.78	74.0	17.59	Peak	0.00	150	Horizontal	Pass
5**	7703.000	45.44	3.78	54.0	8.56	AV	0.00	150	Horizontal	Pass
6	10601.338	56.00	-1.20	74.0	18.00	Peak	142.00	150	Horizontal	Pass
6**	10601.338	44.82	-1.20	54.0	9.18	AV	142.00	150	Horizontal	Pass

11ac20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

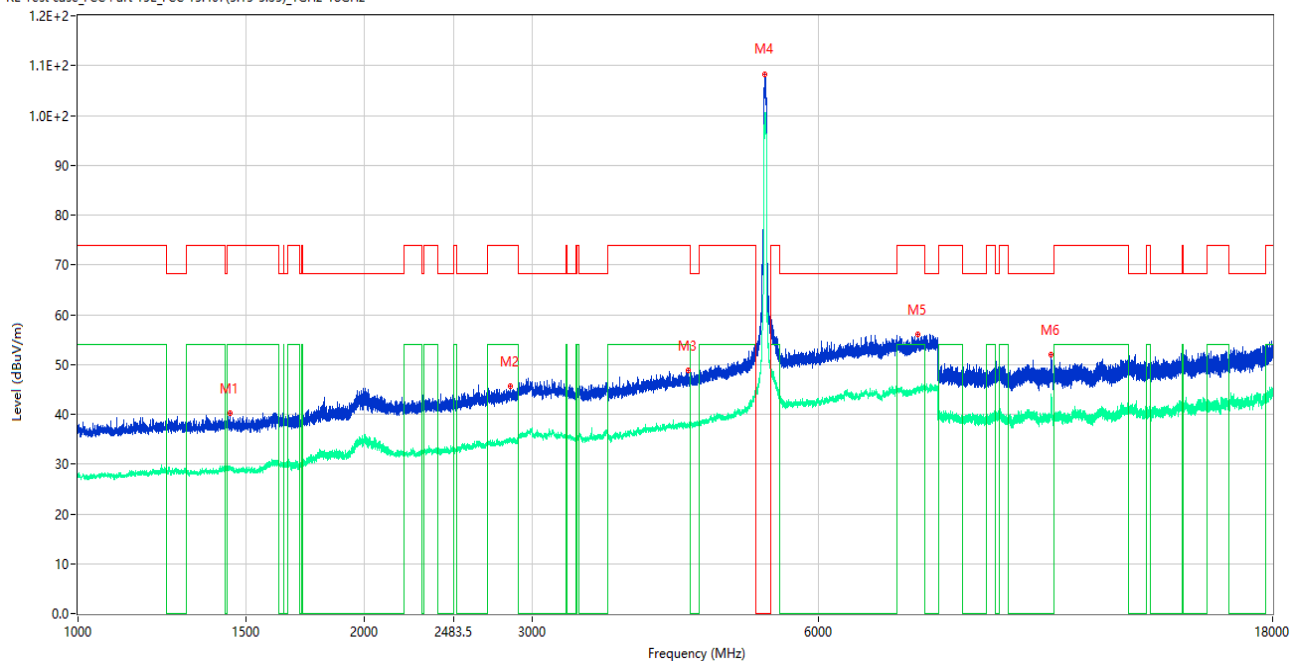
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1588.000	40.61	-15.55	74.0	33.39	Peak	280.00	150	Vertical	Pass
1**	1588.000	29.10	-15.55	54.0	24.90	AV	280.00	150	Vertical	Pass
2	2875.250	46.07	-7.69	74.0	27.93	Peak	360.00	150	Vertical	Pass
2**	2875.250	34.64	-7.69	54.0	19.36	AV	360.00	150	Vertical	Pass
3	4146.000	48.23	-3.53	74.0	25.77	Peak	351.00	150	Vertical	Pass
3**	4146.000	37.14	-3.53	54.0	16.86	AV	351.00	150	Vertical	Pass
4	5301.000	108.71	-0.61	--	40.29	Peak	149.00	150	Vertical	N/A
4**	5301.000	101.18	-0.61	--	-101.18	AV	149.00	150	Vertical	N/A
5	7740.500	56.01	3.35	74.0	17.99	Peak	229.00	150	Vertical	Pass
5**	7740.500	45.50	3.35	54.0	8.50	AV	229.00	150	Vertical	Pass
6	11934.900	51.13	-1.18	74.0	22.87	Peak	118.00	150	Vertical	Pass
6**	11934.900	40.02	-1.18	54.0	13.98	AV	118.00	150	Vertical	Pass

11ac40, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

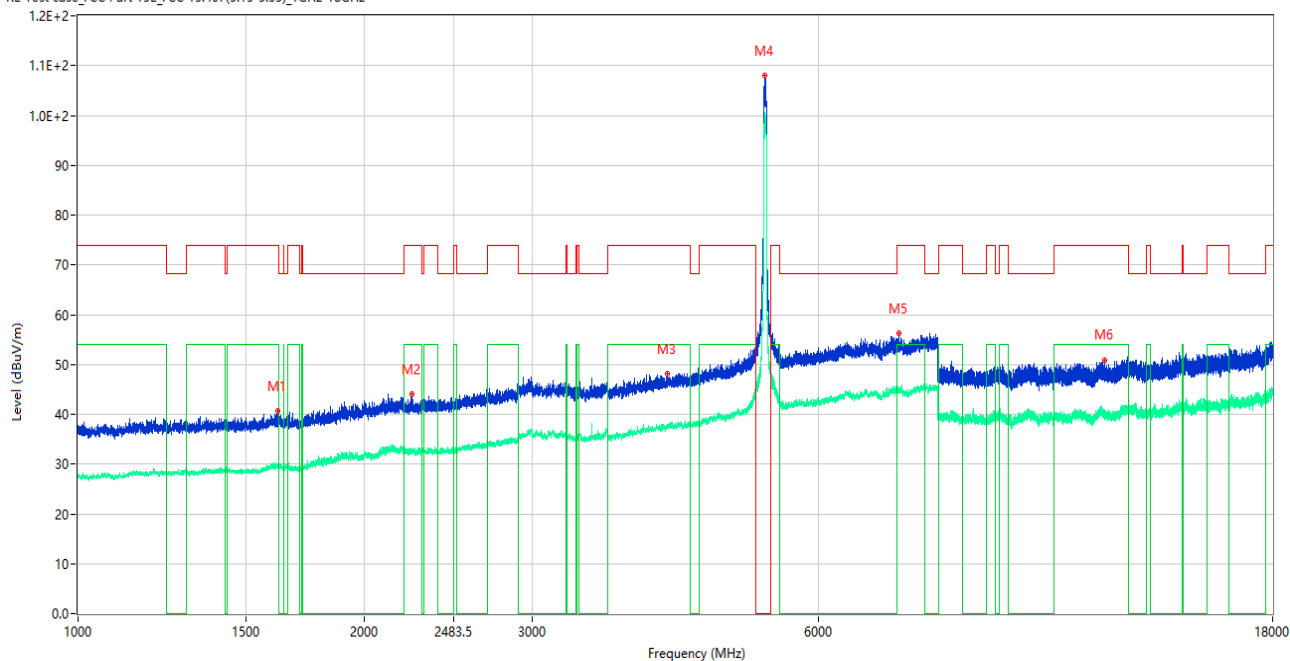
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1444.000	40.33	-15.30	74.0	33.67	Peak	220.00	150	Horizontal	Pass
1**	1444.000	29.30	-15.30	54.0	24.70	AV	220.00	150	Horizontal	Pass
2	2847.250	45.76	-7.54	74.0	28.24	Peak	6.00	150	Horizontal	Pass
2**	2847.250	34.71	-7.54	54.0	19.29	AV	6.00	150	Horizontal	Pass
3	4379.500	48.73	-2.95	74.0	25.27	Peak	56.00	150	Horizontal	Pass
3**	4379.500	37.67	-2.95	54.0	16.33	AV	56.00	150	Horizontal	Pass
4	5268.500	108.36	-0.86	--	27.64	Peak	136.00	150	Horizontal	N/A
4**	5268.500	100.62	-0.86	--	-100.62	AV	136.00	150	Horizontal	N/A
5	7623.000	56.12	2.78	74.0	17.88	Peak	247.00	150	Horizontal	Pass
5**	7623.000	45.32	2.78	54.0	8.68	AV	247.00	150	Horizontal	Pass
6	10534.362	51.98	-0.90	68.2	16.22	Peak	148.00	150	Horizontal	Pass
6**	10534.362	41.16	-0.90	--	-41.16	AV	148.00	150	Horizontal	N/A

11ac40, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

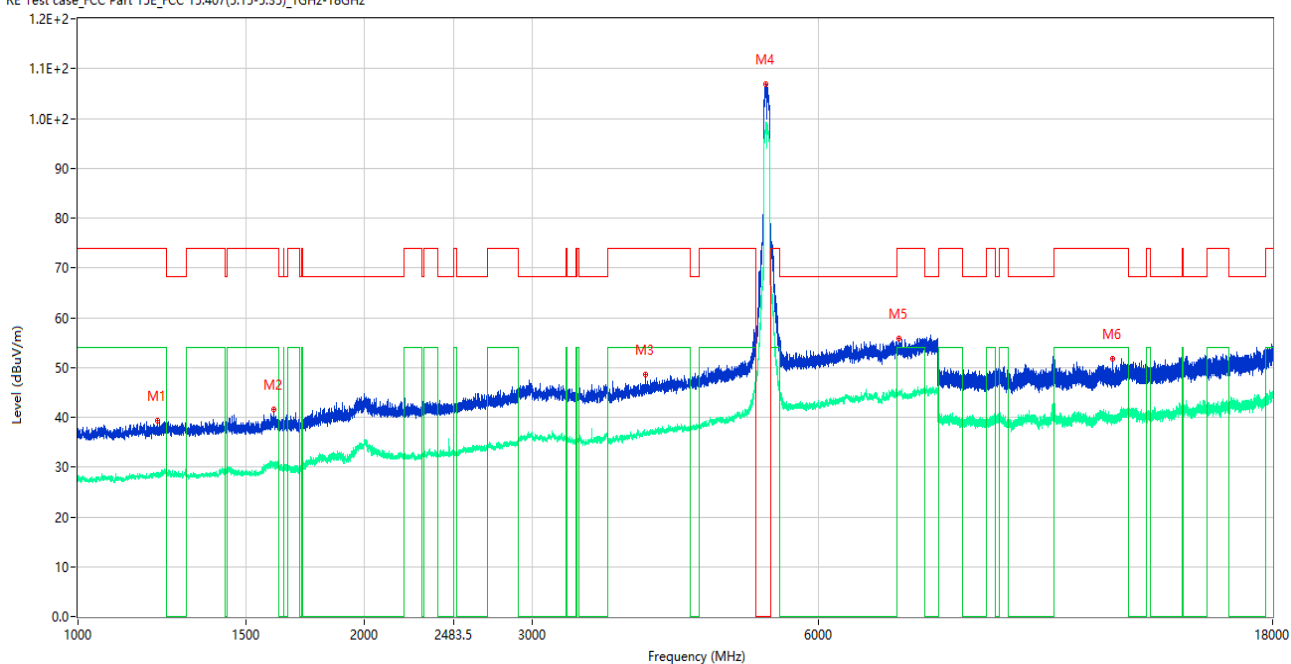
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1620.750	40.59	-15.24	74.0	33.41	Peak	0.00	150	Vertical	Pass
1**	1620.750	29.54	-15.24	54.0	24.46	AV	0.00	150	Vertical	Pass
2	2242.000	44.07	-11.49	74.0	29.93	Peak	161.00	150	Vertical	Pass
2**	2242.000	32.62	-11.49	54.0	21.38	AV	161.00	150	Vertical	Pass
3	4162.500	48.22	-3.64	74.0	25.78	Peak	222.00	150	Vertical	Pass
3**	4162.500	37.34	-3.64	54.0	16.66	AV	222.00	150	Vertical	Pass
4	5271.500	108.05	-0.85	--	41.95	Peak	150.00	150	Vertical	N/A
4**	5271.500	99.91	-0.85	--	-99.91	AV	150.00	150	Vertical	N/A
5	7281.000	56.23	2.50	74.0	17.77	Peak	139.00	150	Vertical	Pass
5**	7281.000	45.00	2.50	54.0	9.00	AV	139.00	150	Vertical	Pass
6	11975.513	50.88	-0.92	74.0	23.12	Peak	339.00	150	Vertical	Pass
6**	11975.513	40.66	-0.92	54.0	13.34	AV	339.00	150	Vertical	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

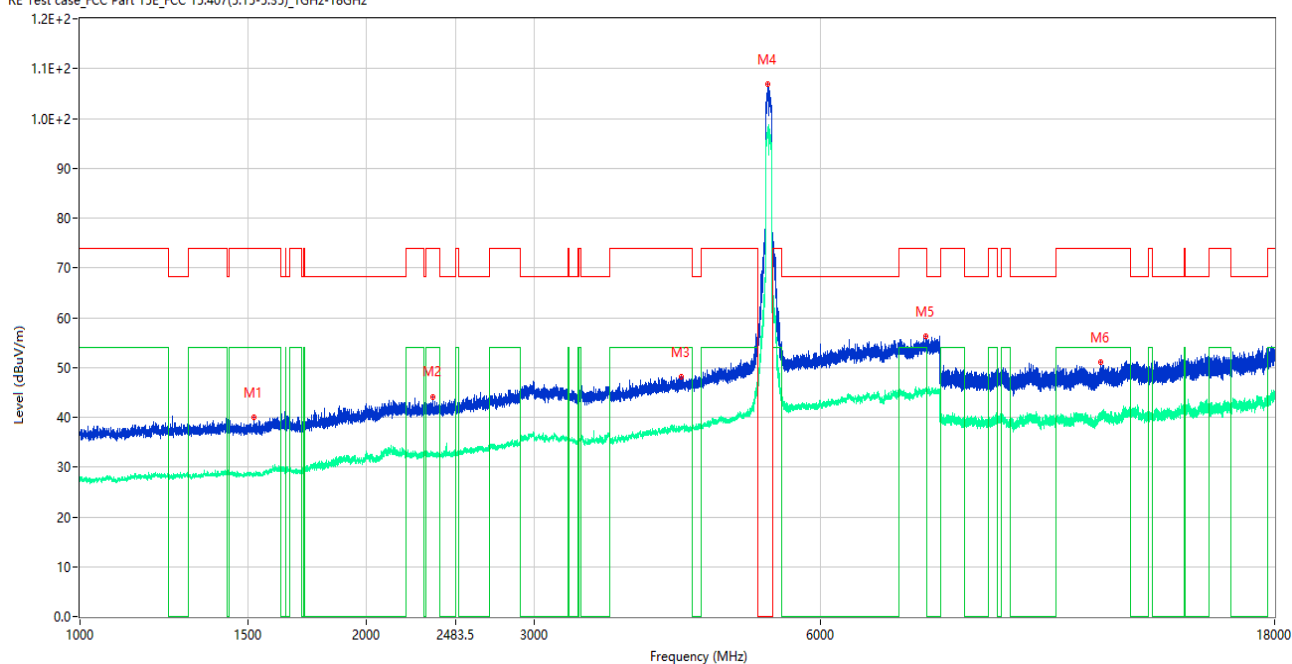
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1212.500	39.24	-15.59	74.0	34.76	Peak	138.00	150	Horizontal	Pass
1**	1212.500	28.53	-15.59	54.0	25.47	AV	138.00	150	Horizontal	Pass
2	1605.750	41.53	-15.22	74.0	32.47	Peak	249.00	150	Horizontal	Pass
2**	1605.750	30.61	-15.22	54.0	23.39	AV	249.00	150	Horizontal	Pass
3	3948.500	48.52	-3.69	74.0	25.48	Peak	37.00	150	Horizontal	Pass
3**	3948.500	36.56	-3.69	54.0	17.44	AV	37.00	150	Horizontal	Pass
4	5283.000	106.89	-0.76	--	42.11	Peak	149.00	150	Horizontal	N/A
4**	5283.000	98.29	-0.76	--	-98.29	AV	149.00	150	Horizontal	N/A
5	7280.500	55.79	2.50	74.0	18.21	Peak	7.00	150	Horizontal	Pass
5**	7280.500	45.04	2.50	54.0	8.96	AV	7.00	150	Horizontal	Pass
6	12218.951	51.72	-1.31	74.0	22.28	Peak	218.00	150	Horizontal	Pass
6**	12218.951	40.00	-1.31	54.0	14.00	AV	218.00	150	Horizontal	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

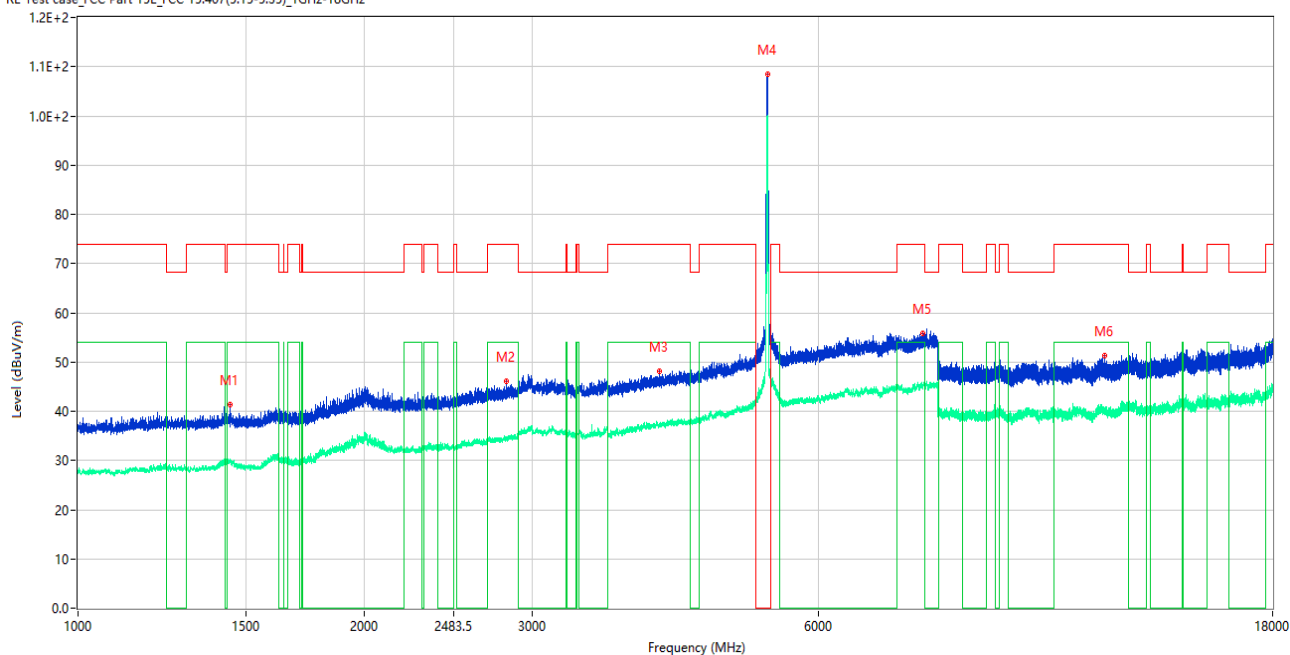
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.750	39.99	-15.37	74.0	34.01	Peak	69.00	150	Vertical	Pass
1**	1521.750	28.59	-15.37	54.0	25.41	AV	69.00	150	Vertical	Pass
2	2349.000	44.16	-10.42	74.0	29.84	Peak	355.00	150	Vertical	Pass
2**	2349.000	32.45	-10.42	54.0	21.55	AV	355.00	150	Vertical	Pass
3	4280.500	48.18	-2.60	74.0	25.82	Peak	109.00	150	Vertical	Pass
3**	4280.500	37.65	-2.60	54.0	16.35	AV	109.00	150	Vertical	Pass
4	5283.000	106.84	-0.76	--	34.16	Peak	141.00	150	Vertical	N/A
4**	5283.000	97.75	-0.76	--	-97.75	AV	141.00	150	Vertical	N/A
5	7746.000	56.33	3.54	74.0	17.67	Peak	349.00	150	Vertical	Pass
5**	7746.000	45.27	3.54	54.0	8.73	AV	349.00	150	Vertical	Pass
6	11830.875	51.03	-1.35	74.0	22.97	Peak	197.00	150	Vertical	Pass
6**	11830.875	39.66	-1.35	54.0	14.34	AV	197.00	150	Vertical	Pass

11ax20 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

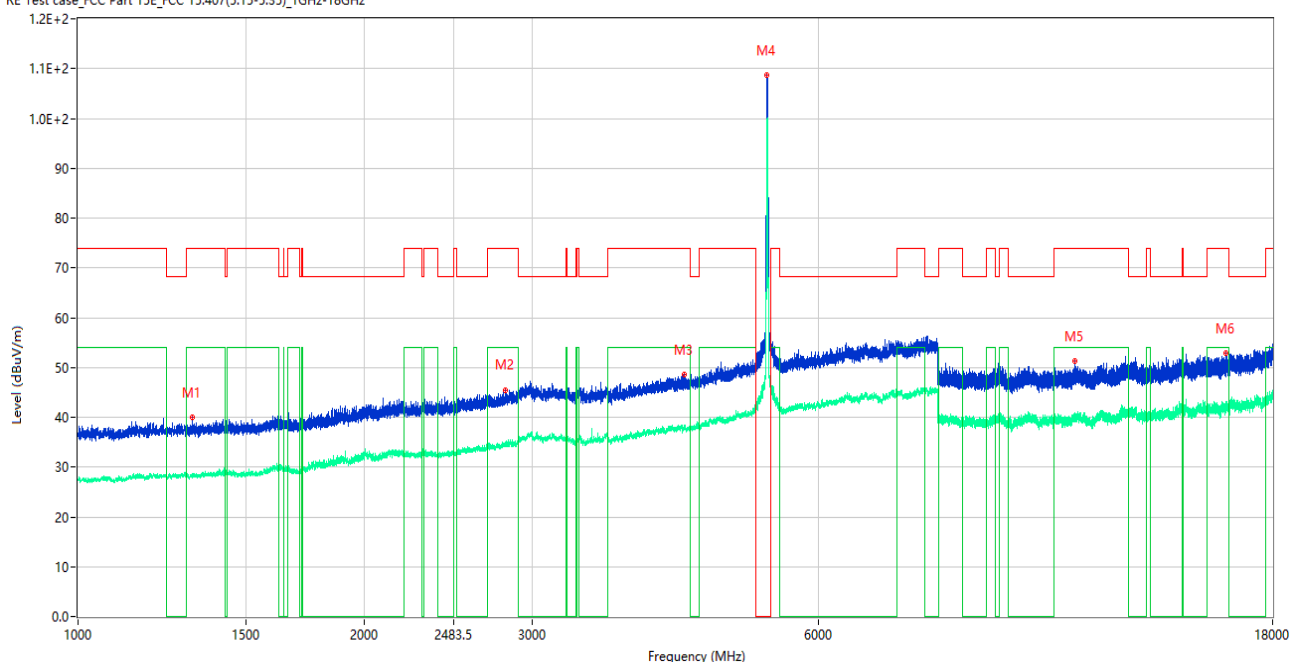
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1444.000	41.33	-15.30	74.0	32.67	Peak	268.00	150	Horizontal	Pass
1**	1444.000	30.33	-15.30	54.0	23.67	AV	268.00	150	Horizontal	Pass
2	2822.000	46.05	-8.23	74.0	27.95	Peak	241.00	150	Horizontal	Pass
2**	2822.000	34.58	-8.23	54.0	19.42	AV	241.00	150	Horizontal	Pass
3	4087.000	48.23	-3.78	74.0	25.77	Peak	199.00	150	Horizontal	Pass
3**	4087.000	37.60	-3.78	54.0	16.40	AV	199.00	150	Horizontal	Pass
4	5304.000	108.52	-0.56	--	51.48	Peak	160.00	150	Horizontal	N/A
4**	5304.000	99.47	-0.56	--	-99.47	AV	160.00	150	Horizontal	N/A
5	7716.000	55.81	3.26	74.0	18.19	Peak	4.00	150	Horizontal	Pass
5**	7716.000	45.07	3.26	54.0	8.93	AV	4.00	150	Horizontal	Pass
6	11979.076	51.19	-0.98	74.0	22.81	Peak	0.00	150	Horizontal	Pass
6**	11979.076	39.73	-0.98	54.0	14.27	AV	0.00	150	Horizontal	Pass

11ax20 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

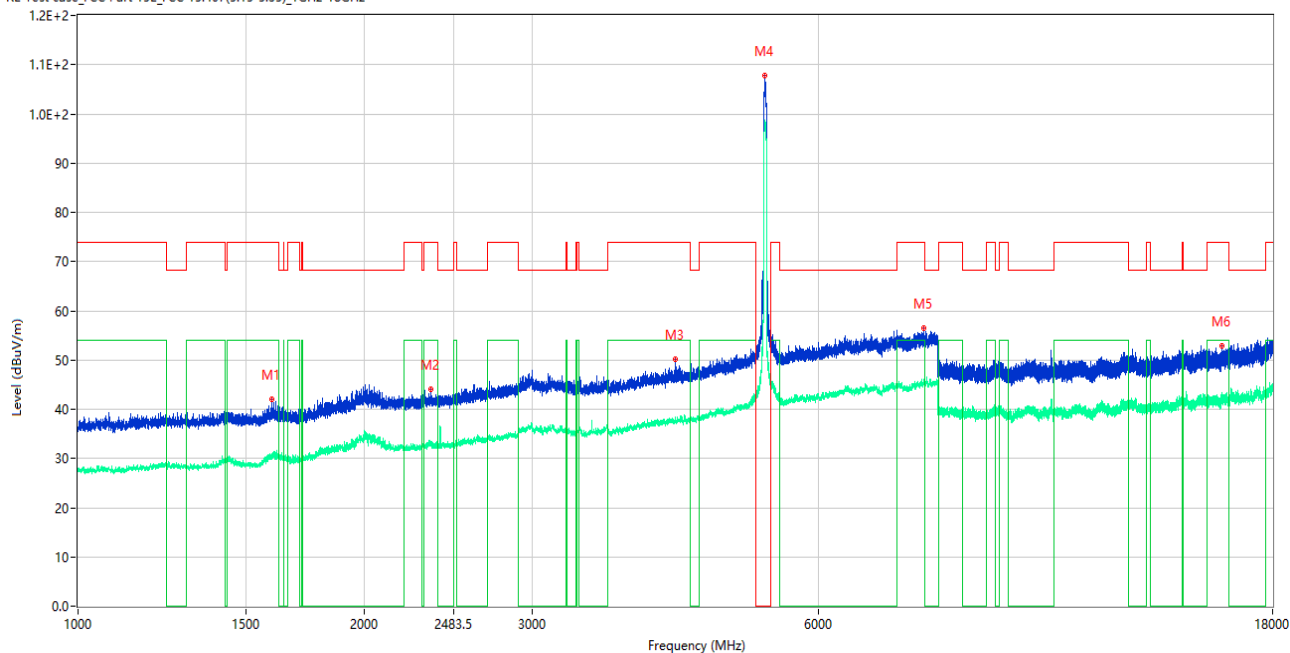
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1317.500	39.93	-15.39	74.0	34.07	Peak	0.00	150	Vertical	Pass
1**	1317.500	28.60	-15.39	54.0	25.40	AV	0.00	150	Vertical	Pass
2	2809.250	45.52	-8.27	74.0	28.48	Peak	164.00	150	Vertical	Pass
2**	2809.250	34.51	-8.27	54.0	19.49	AV	164.00	150	Vertical	Pass
3	4333.000	48.50	-2.48	74.0	25.50	Peak	82.00	150	Vertical	Pass
3**	4333.000	37.79	-2.48	54.0	16.21	AV	82.00	150	Vertical	Pass
4	5298.500	108.68	-0.53	--	40.32	Peak	149.00	150	Vertical	N/A
4**	5298.500	100.00	-0.53	--	-100.00	AV	149.00	150	Vertical	N/A
5	11151.863	51.23	-1.14	74.0	22.77	Peak	197.00	150	Vertical	Pass
5**	11151.863	40.38	-1.14	54.0	13.62	AV	197.00	150	Vertical	Pass
6	16069.576	52.82	1.78	74.0	21.18	Peak	35.00	150	Vertical	Pass
6**	16069.576	42.12	1.78	54.0	11.88	AV	35.00	150	Vertical	Pass

11ax40 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

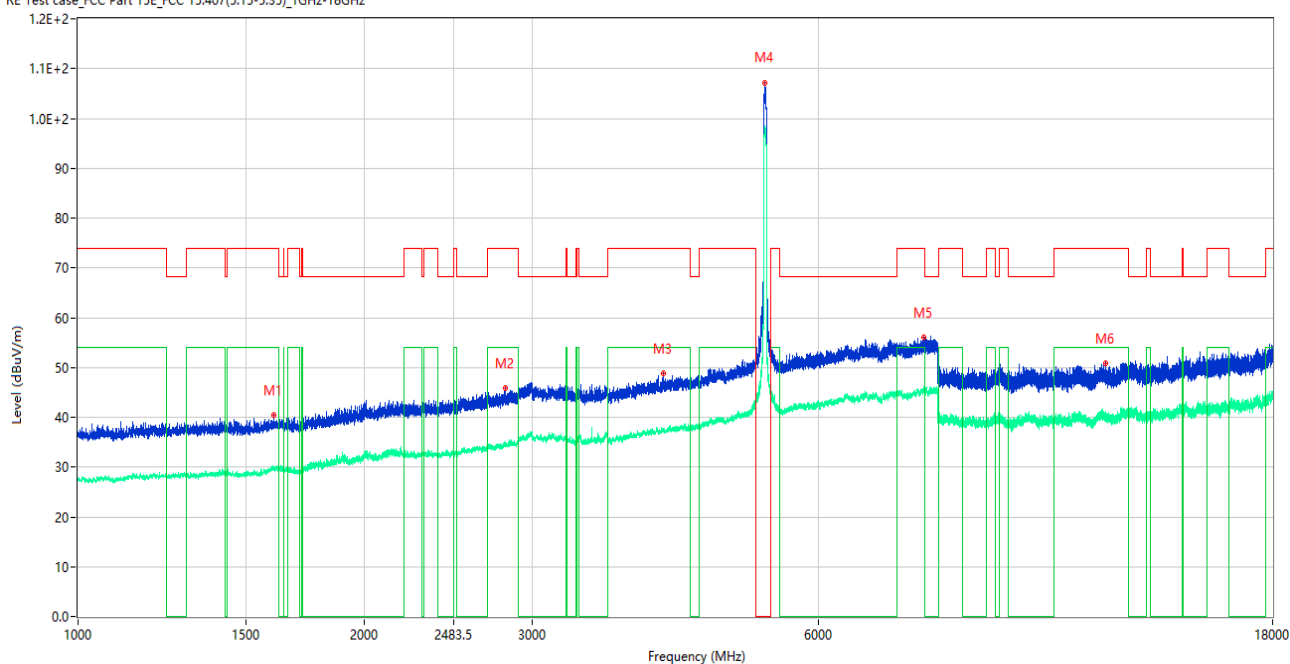
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1596.750	42.06	-15.29	74.0	31.94	Peak	272.00	150	Horizontal	Pass
1**	1596.750	31.01	-15.29	54.0	22.99	AV	272.00	150	Horizontal	Pass
2	2349.250	44.05	-10.42	74.0	29.95	Peak	241.00	150	Horizontal	Pass
2**	2349.250	32.61	-10.42	54.0	21.39	AV	241.00	150	Horizontal	Pass
3	4244.500	50.07	-2.49	74.0	23.93	Peak	360.00	150	Horizontal	Pass
3**	4244.500	37.34	-2.49	54.0	16.66	AV	360.00	150	Horizontal	Pass
4	5272.000	107.84	-0.84	--	12.16	Peak	120.00	150	Horizontal	N/A
4**	5272.000	98.46	-0.84	--	-98.46	AV	120.00	150	Horizontal	N/A
5	7743.500	56.41	3.43	74.0	17.59	Peak	360.00	150	Horizontal	Pass
5**	7743.500	45.50	3.43	54.0	8.50	AV	360.00	150	Horizontal	Pass
6	15930.713	52.98	1.29	74.0	21.02	Peak	345.00	150	Horizontal	Pass
6**	15930.713	42.31	1.29	54.0	11.69	AV	345.00	150	Horizontal	Pass

11ax40 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

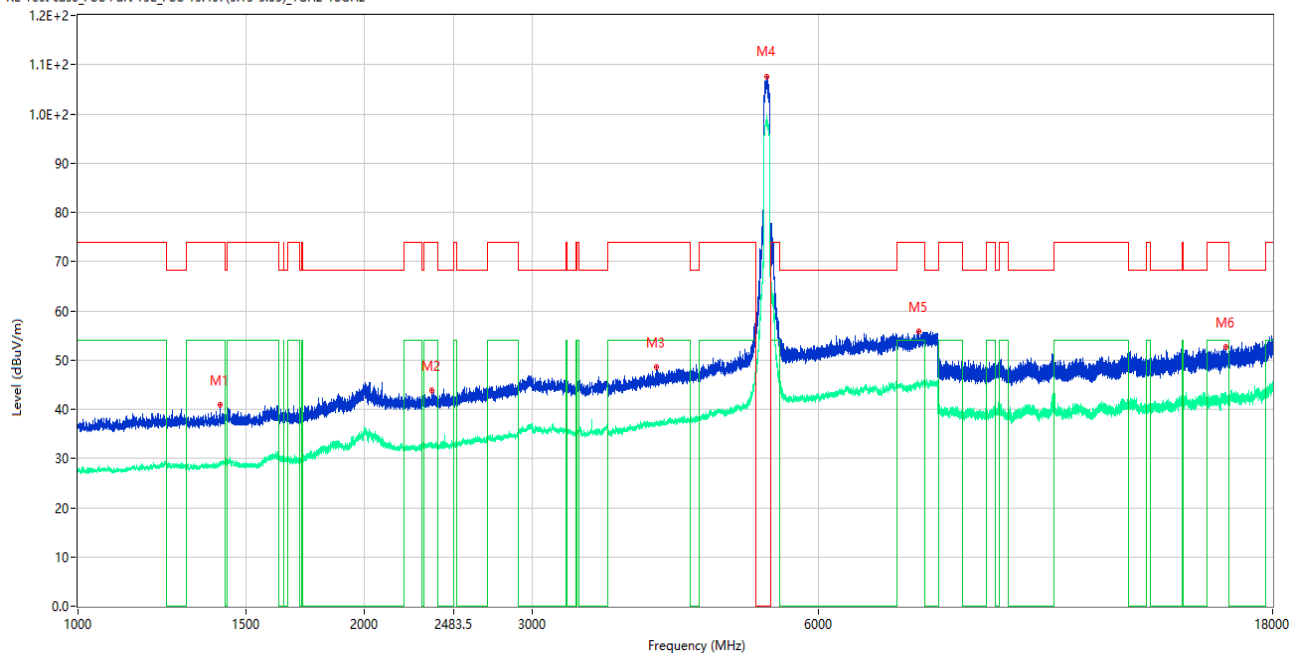
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1606.750	40.36	-15.22	74.0	33.64	Peak	55.00	150	Vertical	Pass
1**	1606.750	29.66	-15.22	54.0	24.34	AV	55.00	150	Vertical	Pass
2	2814.000	45.86	-8.10	74.0	28.14	Peak	0.00	150	Vertical	Pass
2**	2814.000	34.64	-8.10	54.0	19.36	AV	0.00	150	Vertical	Pass
3	4123.500	48.78	-3.40	74.0	25.22	Peak	1.00	150	Vertical	Pass
3**	4123.500	37.34	-3.40	54.0	16.66	AV	1.00	150	Vertical	Pass
4	5271.000	107.22	-0.89	--	39.78	Peak	147.00	150	Vertical	N/A
4**	5271.000	97.77	-0.89	--	-97.77	AV	147.00	150	Vertical	N/A
5	7735.500	56.08	3.22	74.0	17.92	Peak	139.00	150	Vertical	Pass
5**	7735.500	45.53	3.22	54.0	8.47	AV	139.00	150	Vertical	Pass
6	12016.125	50.76	-0.99	74.0	23.24	Peak	268.00	150	Vertical	Pass
6**	12016.125	40.18	-0.99	54.0	13.82	AV	268.00	150	Vertical	Pass

11ax80 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

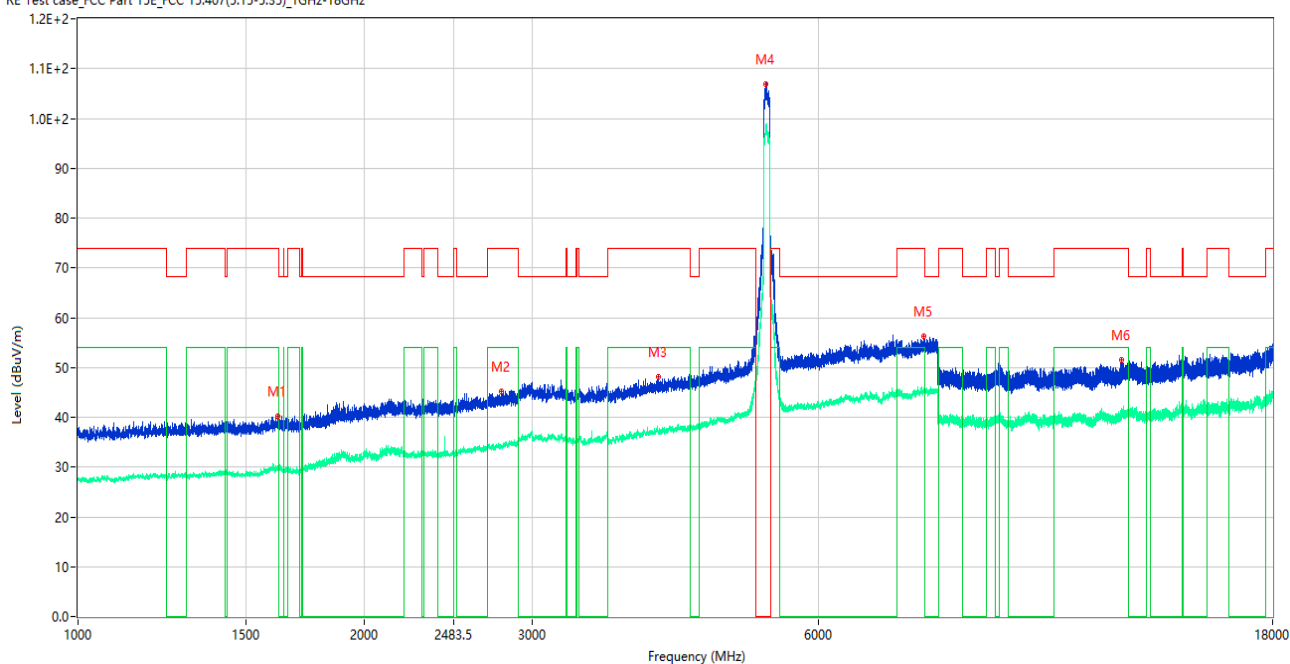
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1409.500	40.86	-15.38	74.0	33.14	Peak	158.00	150	Horizontal	Pass
1**	1409.500	28.78	-15.38	54.0	25.22	AV	158.00	150	Horizontal	Pass
2	2354.750	43.87	-10.50	74.0	30.13	Peak	209.00	150	Horizontal	Pass
2**	2354.750	32.14	-10.50	54.0	21.86	AV	209.00	150	Horizontal	Pass
3	4050.500	48.54	-3.08	74.0	25.46	Peak	202.00	150	Horizontal	Pass
3**	4050.500	37.31	-3.08	54.0	16.69	AV	202.00	150	Horizontal	Pass
4	5291.000	107.66	-0.53	--	33.34	Peak	141.00	150	Horizontal	N/A
4**	5291.000	98.78	-0.53	--	-98.78	AV	141.00	150	Horizontal	N/A
5	7639.000	55.77	2.87	74.0	18.23	Peak	360.00	150	Horizontal	Pass
5**	7639.000	45.03	2.87	54.0	8.97	AV	360.00	150	Horizontal	Pass
6	16094.775	52.61	1.69	74.0	21.39	Peak	138.00	150	Horizontal	Pass
6**	16094.775	42.17	1.69	54.0	11.83	AV	138.00	150	Horizontal	Pass

11ax80 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

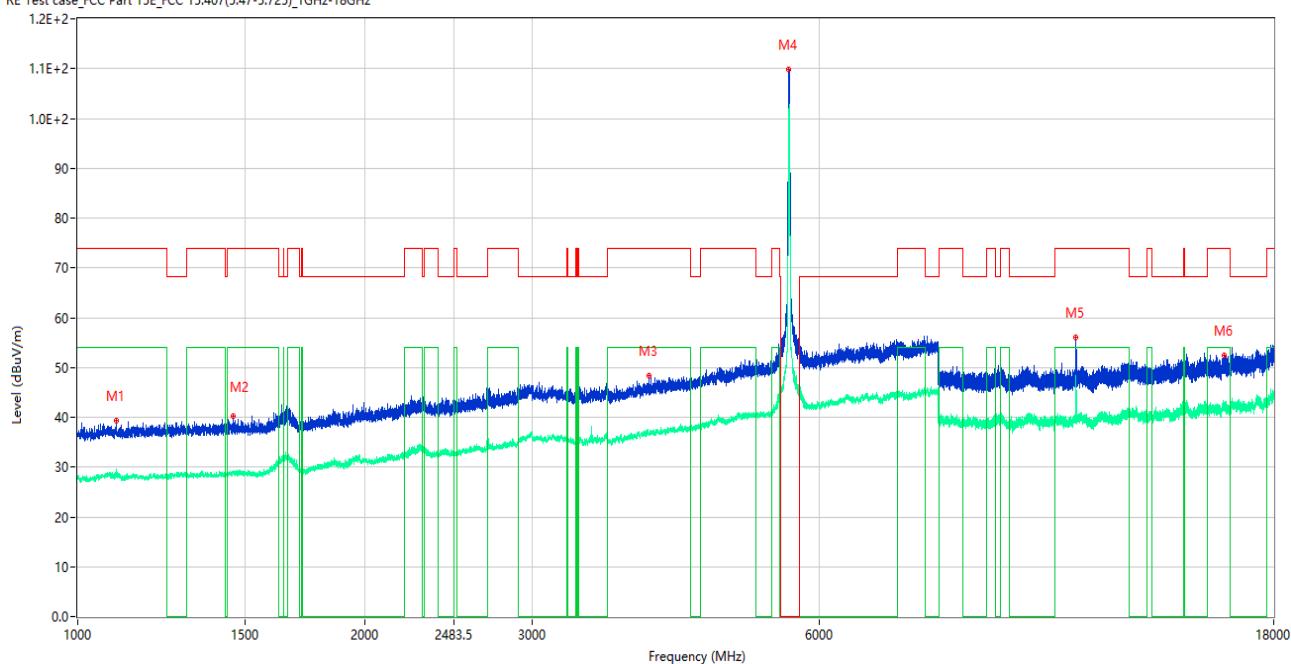
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1622.250	40.20	-15.25	74.0	33.80	Peak	33.00	150	Vertical	Pass
1**	1622.250	29.33	-15.25	54.0	24.67	AV	33.00	150	Vertical	Pass
2	2782.500	45.28	-8.10	74.0	28.72	Peak	338.00	150	Vertical	Pass
2**	2782.500	34.14	-8.10	54.0	19.86	AV	338.00	150	Vertical	Pass
3	4069.500	48.05	-3.49	74.0	25.95	Peak	310.00	150	Vertical	Pass
3**	4069.500	37.20	-3.49	54.0	16.80	AV	310.00	150	Vertical	Pass
4	5279.500	106.91	-0.86	--	43.09	Peak	150.00	150	Vertical	N/A
4**	5279.500	97.25	-0.86	--	-97.25	AV	150.00	150	Vertical	N/A
5	7742.500	56.21	3.40	74.0	17.79	Peak	29.00	150	Vertical	Pass
5**	7742.500	45.32	3.40	54.0	8.68	AV	29.00	150	Vertical	Pass
6	12496.825	51.51	0.24	74.0	22.49	Peak	359.00	150	Vertical	Pass
6**	12496.825	41.51	0.24	54.0	12.49	AV	359.00	150	Vertical	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

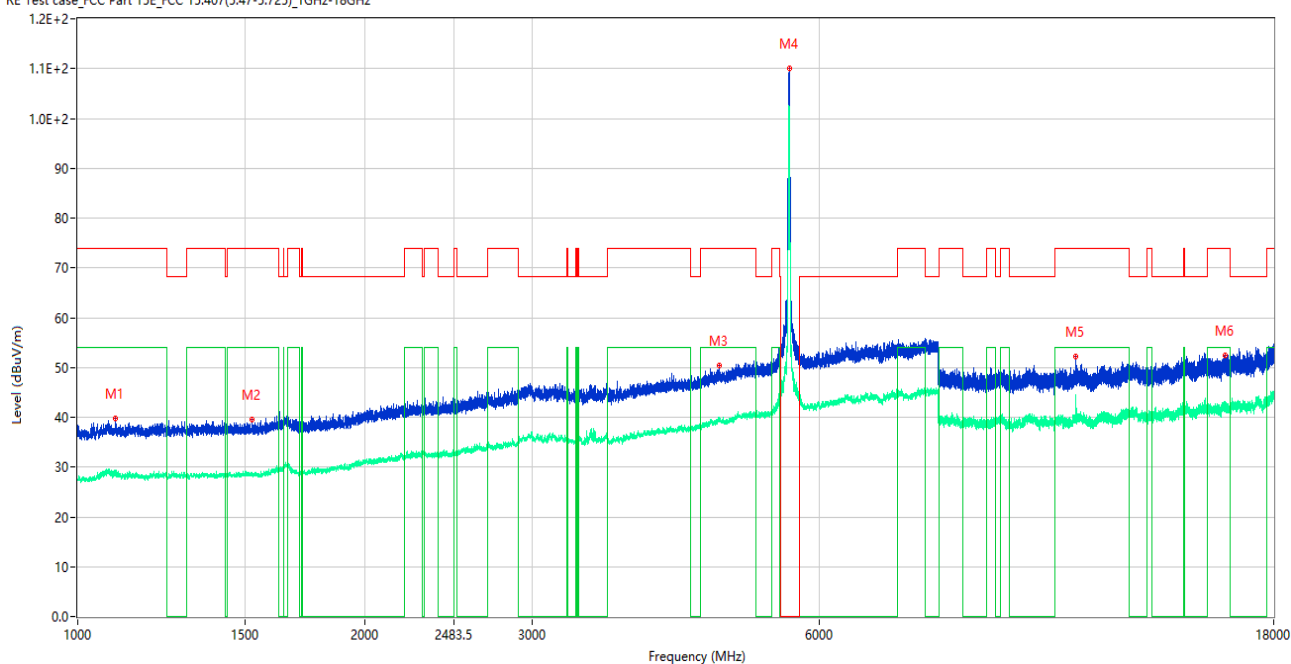
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1096.750	39.41	-15.68	74.0	34.59	Peak	274.00	150	Horizontal	Pass
1**	1096.750	29.06	-15.68	54.0	24.94	AV	274.00	150	Horizontal	Pass
2	1457.500	40.12	-15.40	74.0	33.88	Peak	239.00	150	Horizontal	Pass
2**	1457.500	28.65	-15.40	54.0	25.35	AV	239.00	150	Horizontal	Pass
3	3974.000	48.25	-3.47	74.0	25.75	Peak	78.00	150	Horizontal	Pass
3**	3974.000	36.53	-3.47	54.0	17.47	AV	78.00	150	Horizontal	Pass
4	5575.500	109.76	-0.79	--	28.24	Peak	138.00	150	Horizontal	N/A
4**	5575.500	101.22	-0.79	--	-101.22	AV	138.00	150	Horizontal	N/A
5	11162.313	55.95	-1.27	74.0	18.05	Peak	115.00	150	Horizontal	Pass
5**	11162.313	45.74	-1.27	54.0	8.26	AV	115.00	150	Horizontal	Pass
6	15970.350	52.43	1.16	74.0	21.57	Peak	352.00	150	Horizontal	Pass
6**	15970.350	42.22	1.16	54.0	11.78	AV	352.00	150	Horizontal	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

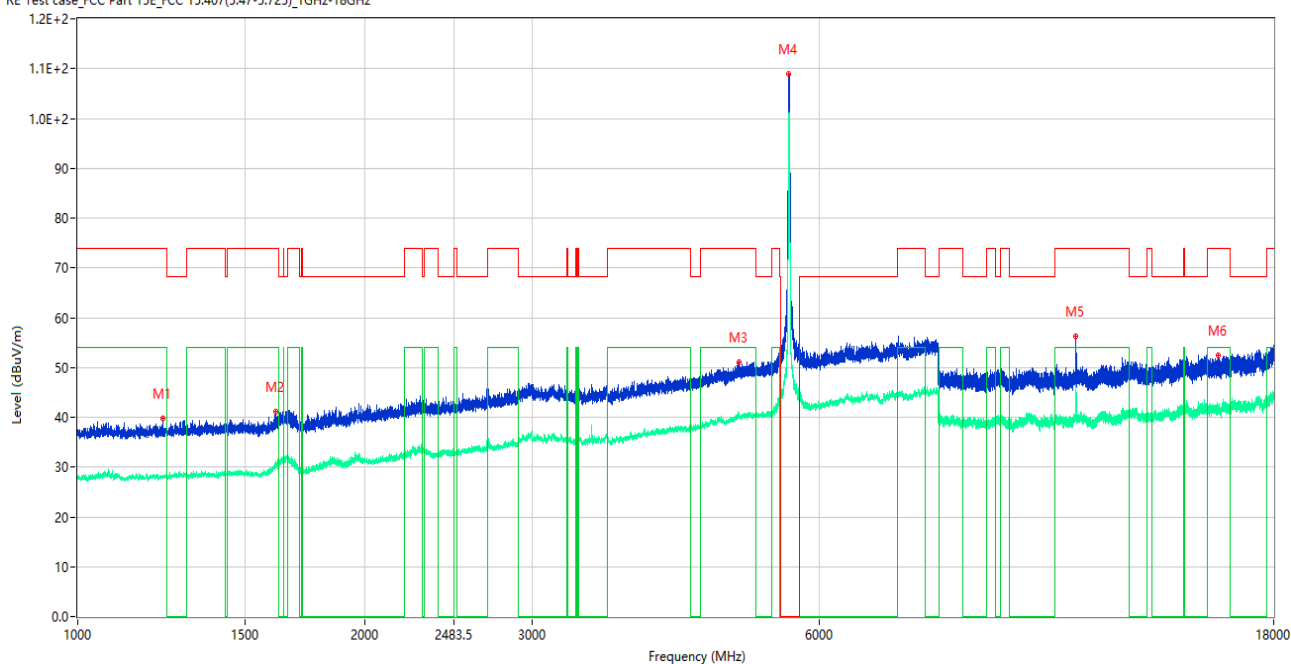
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1094.250	39.78	-15.75	74.0	34.22	Peak	207.00	150	Vertical	Pass
1**	1094.250	28.43	-15.75	54.0	25.57	AV	207.00	150	Vertical	Pass
2	1524.500	39.51	-15.43	74.0	34.49	Peak	351.00	150	Vertical	Pass
2**	1524.500	28.33	-15.43	54.0	25.67	AV	351.00	150	Vertical	Pass
3	4714.000	50.35	-2.02	74.0	23.65	Peak	301.00	150	Vertical	Pass
3**	4714.000	39.30	-2.02	54.0	14.70	AV	301.00	150	Vertical	Pass
4	5587.500	110.00	-0.62	--	39.00	Peak	149.00	150	Vertical	N/A
4**	5587.500	101.79	-0.62	--	-101.79	AV	149.00	150	Vertical	N/A
5	11162.550	52.19	-1.25	74.0	21.81	Peak	236.00	150	Vertical	Pass
5**	11162.550	43.38	-1.25	54.0	10.62	AV	236.00	150	Vertical	Pass
6	16008.674	52.41	1.17	74.0	21.59	Peak	0.00	150	Vertical	Pass
6**	16008.674	42.44	1.17	54.0	11.56	AV	0.00	150	Vertical	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

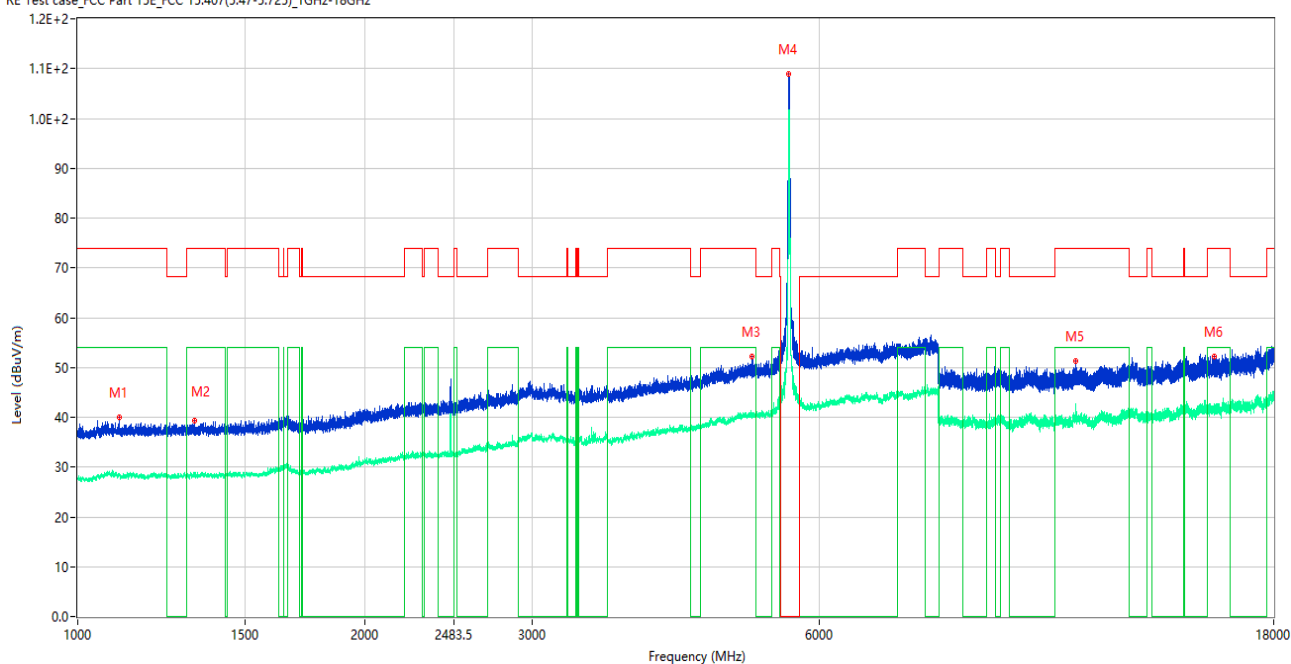
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1227.500	39.80	-15.62	74.0	34.20	Peak	261.00	150	Horizontal	Pass
1**	1227.500	27.94	-15.62	54.0	26.06	AV	261.00	150	Horizontal	Pass
2	1614.000	41.02	-15.13	74.0	32.98	Peak	136.00	150	Horizontal	Pass
2**	1614.000	30.78	-15.13	54.0	23.22	AV	136.00	150	Horizontal	Pass
3	4946.000	50.96	-0.52	74.0	23.04	Peak	273.00	150	Horizontal	Pass
3**	4946.000	40.04	-0.52	54.0	13.96	AV	273.00	150	Horizontal	Pass
4	5578.500	108.84	-0.75	--	45.16	Peak	154.00	150	Horizontal	N/A
4**	5578.500	100.99	-0.75	--	-100.99	AV	154.00	150	Horizontal	N/A
5	11161.600	56.29	-1.21	74.0	17.71	Peak	139.00	150	Horizontal	Pass
5**	11161.600	45.51	-1.21	54.0	8.49	AV	139.00	150	Horizontal	Pass
6	15754.575	52.36	0.76	74.0	21.64	Peak	15.00	150	Horizontal	Pass
6**	15754.575	41.15	0.76	54.0	12.85	AV	15.00	150	Horizontal	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

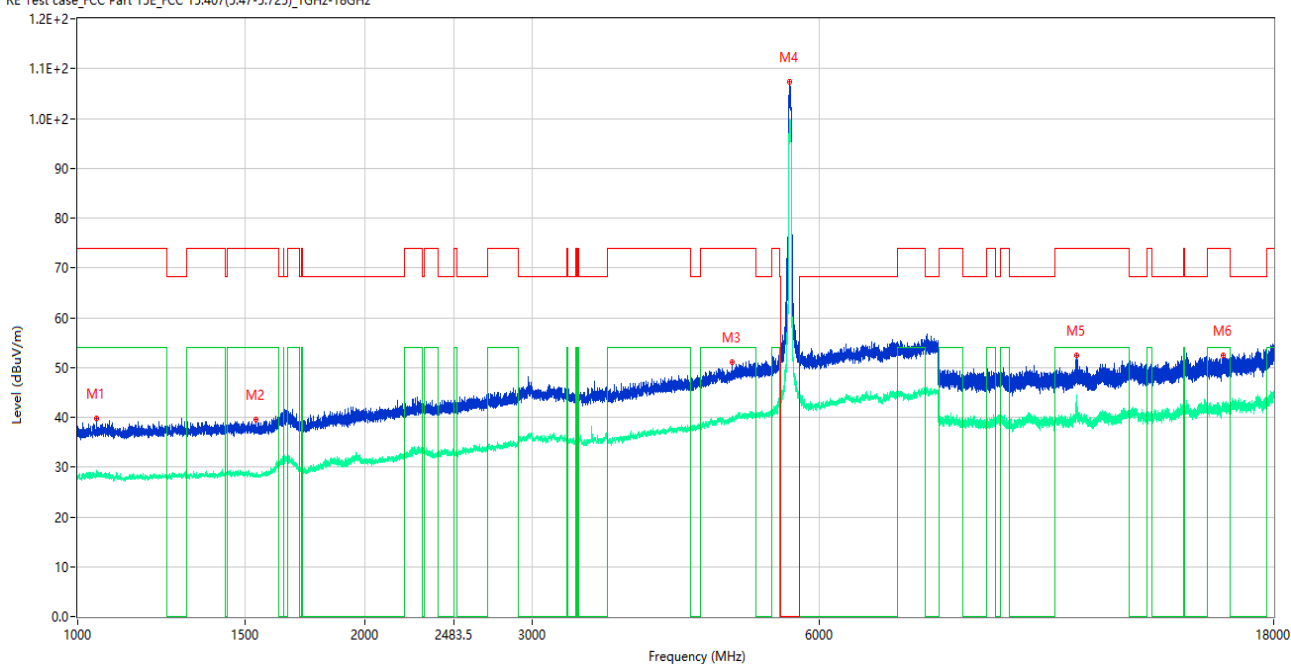
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1104.750	39.89	-15.63	74.0	34.11	Peak	3.00	150	Vertical	Pass
1**	1104.750	28.48	-15.63	54.0	25.52	AV	3.00	150	Vertical	Pass
2	1325.750	39.27	-15.50	74.0	34.73	Peak	41.00	150	Vertical	Pass
2**	1325.750	28.41	-15.50	54.0	25.59	AV	41.00	150	Vertical	Pass
3	5100.000	52.17	-1.04	74.0	21.83	Peak	180.00	150	Vertical	Pass
3**	5100.000	40.28	-1.04	54.0	13.72	AV	180.00	150	Vertical	Pass
4	5578.500	108.84	-0.75	--	52.16	Peak	161.00	150	Vertical	N/A
4**	5578.500	101.63	-0.75	--	-101.63	AV	161.00	150	Vertical	N/A
5	11160.651	51.37	-1.13	74.0	22.63	Peak	211.00	150	Vertical	Pass
5**	11160.651	41.92	-1.13	54.0	12.08	AV	211.00	150	Vertical	Pass
6	15583.950	52.17	0.49	74.0	21.83	Peak	15.00	150	Vertical	Pass
6**	15583.950	41.53	0.49	54.0	12.47	AV	15.00	150	Vertical	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

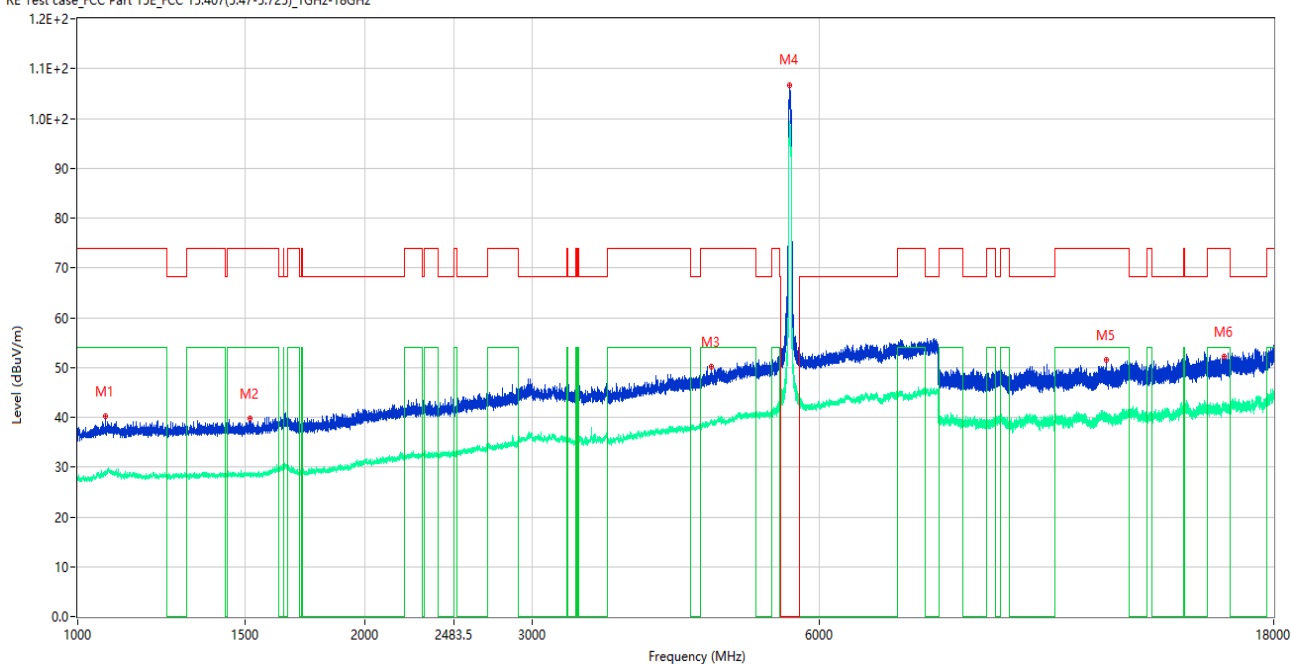
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1047.750	39.70	-15.73	74.0	34.30	Peak	204.00	150	Horizontal	Pass
1**	1047.750	28.75	-15.73	54.0	25.25	AV	204.00	150	Horizontal	Pass
2	1538.500	39.52	-15.46	74.0	34.48	Peak	266.00	150	Horizontal	Pass
2**	1538.500	28.39	-15.46	54.0	25.61	AV	266.00	150	Horizontal	Pass
3	4861.000	51.05	-1.25	74.0	22.95	Peak	0.00	150	Horizontal	Pass
3**	4861.000	39.10	-1.25	54.0	14.90	AV	0.00	150	Horizontal	Pass
4	5592.000	107.31	-0.61	--	42.69	Peak	150.00	150	Horizontal	N/A
4**	5592.000	99.78	-0.61	--	-99.78	AV	150.00	150	Horizontal	N/A
5	11175.850	52.36	-1.45	74.0	21.64	Peak	114.00	150	Horizontal	Pass
5**	11175.850	42.83	-1.45	54.0	11.17	AV	114.00	150	Horizontal	Pass
6	15931.763	52.44	1.35	74.0	21.56	Peak	192.00	150	Horizontal	Pass
6**	15931.763	42.39	1.35	54.0	11.61	AV	192.00	150	Horizontal	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

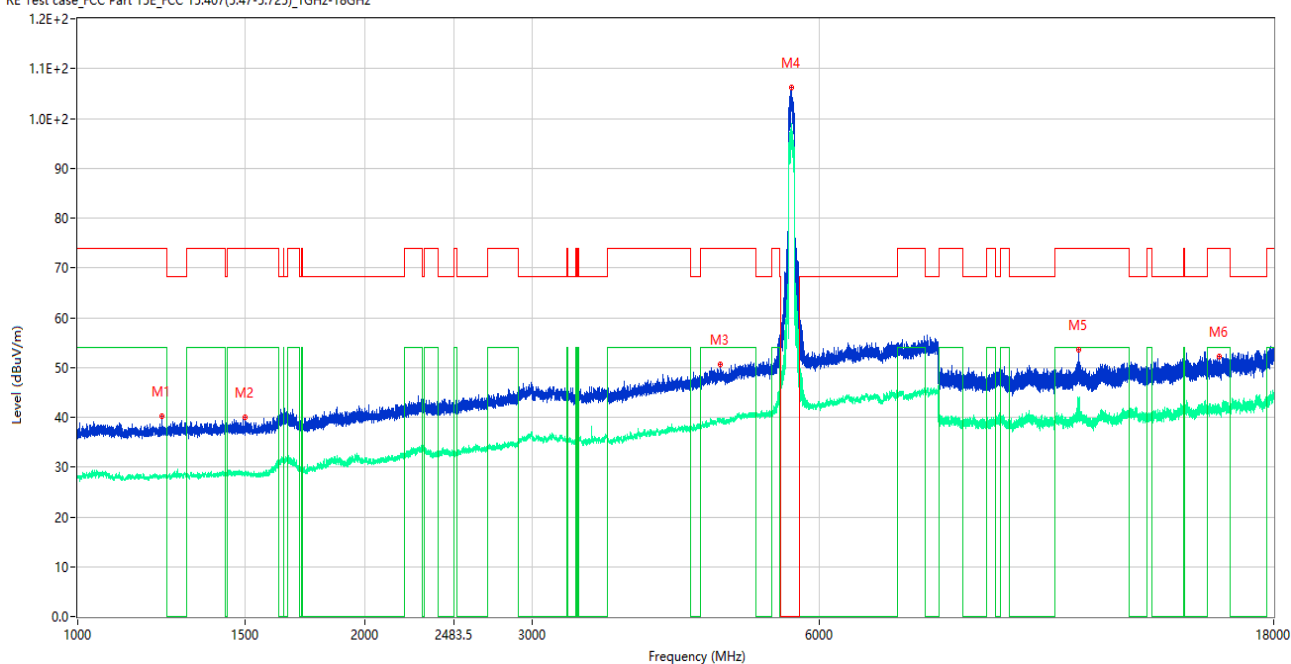
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1068.750	40.12	-15.57	74.0	33.88	Peak	221.00	150	Vertical	Pass
1**	1068.750	28.84	-15.57	54.0	25.16	AV	221.00	150	Vertical	Pass
2	1515.250	39.70	-15.26	74.0	34.30	Peak	113.00	150	Vertical	Pass
2**	1515.250	28.64	-15.26	54.0	25.36	AV	113.00	150	Vertical	Pass
3	4624.500	50.09	-1.61	74.0	23.91	Peak	322.00	150	Vertical	Pass
3**	4624.500	39.16	-1.61	54.0	14.84	AV	322.00	150	Vertical	Pass
4	5587.000	106.77	-0.61	--	54.23	Peak	161.00	150	Vertical	N/A
4**	5587.000	99.11	-0.61	--	-99.11	AV	161.00	150	Vertical	N/A
5	12000.925	51.43	-0.99	74.0	22.57	Peak	1.00	150	Vertical	Pass
5**	12000.925	39.25	-0.99	54.0	14.75	AV	1.00	150	Vertical	Pass
6	15964.049	52.19	1.22	74.0	21.81	Peak	256.00	150	Vertical	Pass
6**	15964.049	42.24	1.22	54.0	11.76	AV	256.00	150	Vertical	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

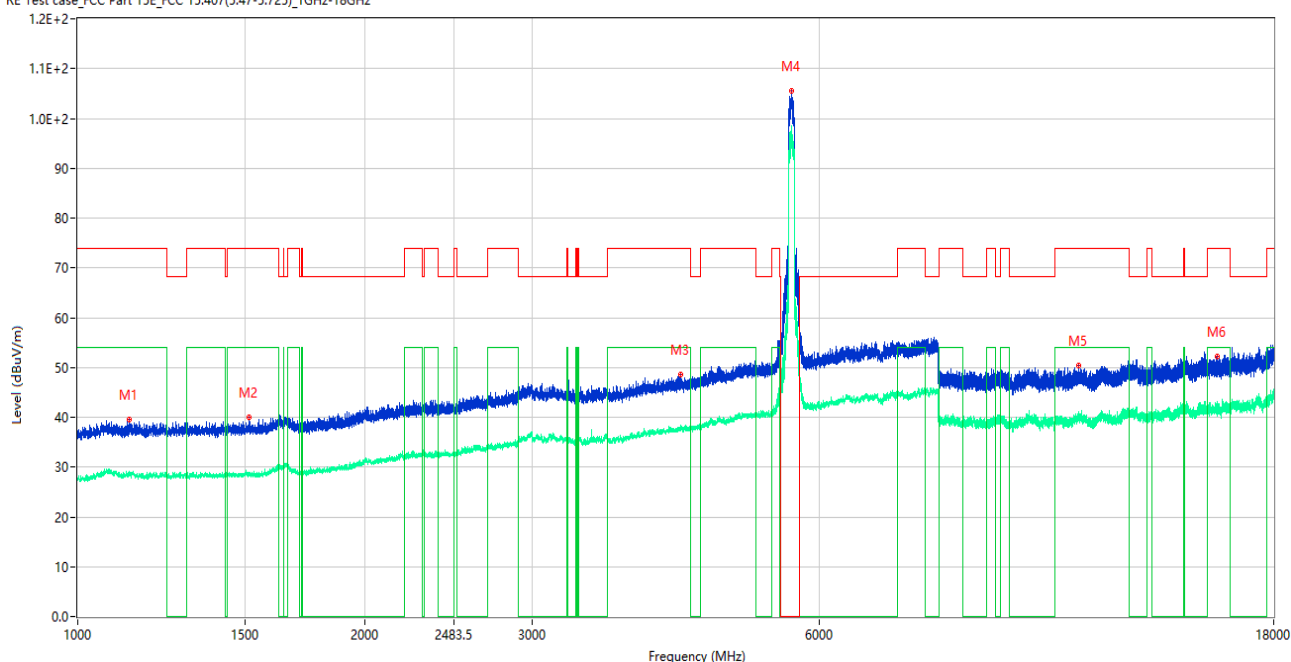
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1225.250	40.11	-15.61	74.0	33.89	Peak	140.00	150	Horizontal	Pass
1**	1225.250	28.33	-15.61	54.0	25.67	AV	140.00	150	Horizontal	Pass
2	1497.250	40.06	-15.37	74.0	33.94	Peak	223.00	150	Horizontal	Pass
2**	1497.250	29.12	-15.37	54.0	24.88	AV	223.00	150	Horizontal	Pass
3	4724.000	50.68	-1.78	74.0	23.32	Peak	121.00	150	Horizontal	Pass
3**	4724.000	39.58	-1.78	54.0	14.42	AV	121.00	150	Horizontal	Pass
4	5612.000	106.29	-0.18	--	35.71	Peak	142.00	150	Horizontal	N/A
4**	5612.000	99.01	-0.18	--	-99.01	AV	142.00	150	Horizontal	N/A
5	11247.337	53.56	-1.39	74.0	20.44	Peak	117.00	150	Horizontal	Pass
5**	11247.337	41.54	-1.39	54.0	12.46	AV	117.00	150	Horizontal	Pass
6	15763.237	52.28	0.99	74.0	21.72	Peak	47.00	150	Horizontal	Pass
6**	15763.237	41.95	0.99	54.0	12.05	AV	47.00	150	Horizontal	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

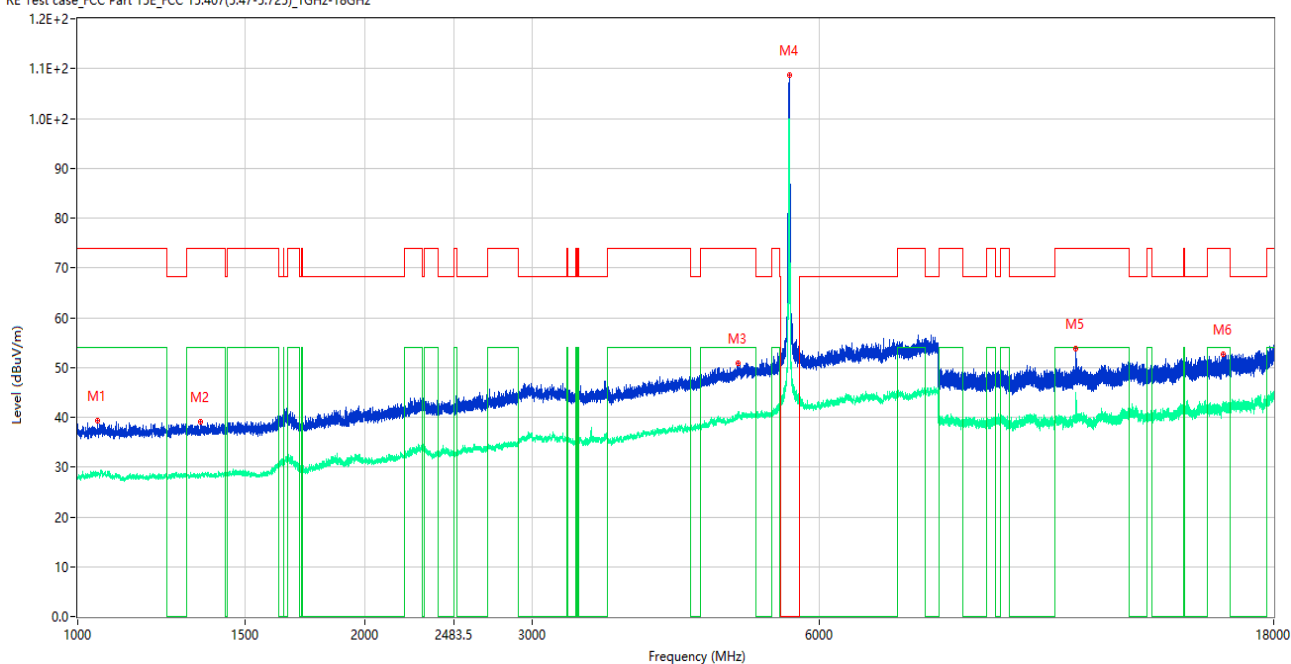
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1133.750	39.59	-15.55	74.0	34.41	Peak	212.00	150	Vertical	Pass
1**	1133.750	28.48	-15.55	54.0	25.52	AV	212.00	150	Vertical	Pass
2	1514.250	39.97	-15.23	74.0	34.03	Peak	150.00	150	Vertical	Pass
2**	1514.250	28.72	-15.23	54.0	25.28	AV	150.00	150	Vertical	Pass
3	4292.000	48.56	-3.14	74.0	25.44	Peak	99.00	150	Vertical	Pass
3**	4292.000	37.84	-3.14	54.0	16.16	AV	99.00	150	Vertical	Pass
4	5608.500	105.60	-0.33	--	43.40	Peak	149.00	150	Vertical	N/A
4**	5608.500	97.82	-0.33	--	-97.82	AV	149.00	150	Vertical	N/A
5	11224.063	50.35	-1.42	74.0	23.65	Peak	211.00	150	Vertical	Pass
5**	11224.063	40.02	-1.42	54.0	13.98	AV	211.00	150	Vertical	Pass
6	15712.050	52.19	1.42	74.0	21.81	Peak	48.00	150	Vertical	Pass
6**	15712.050	41.78	1.42	54.0	12.22	AV	48.00	150	Vertical	Pass

11ax20 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

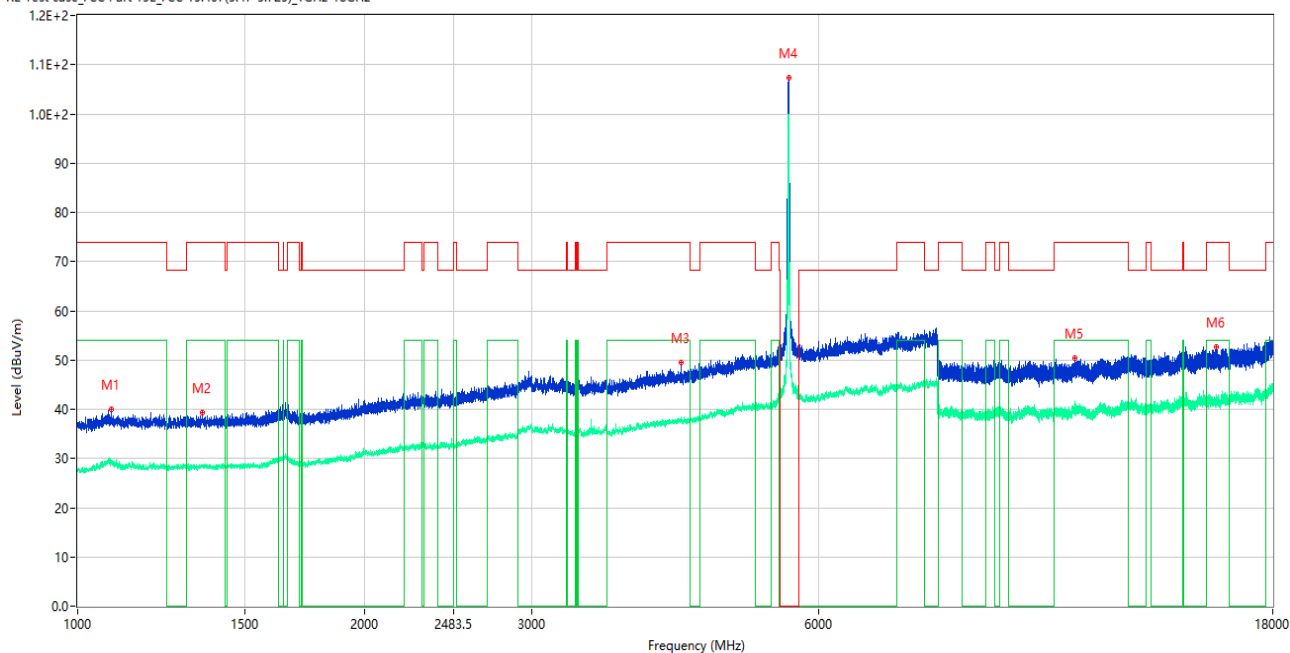
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1049.250	39.31	-15.69	74.0	34.69	Peak	163.00	150	Horizontal	Pass
1**	1049.250	28.62	-15.69	54.0	25.38	AV	163.00	150	Horizontal	Pass
2	1346.750	39.17	-15.43	74.0	34.83	Peak	32.00	150	Horizontal	Pass
2**	1346.750	28.08	-15.43	54.0	25.92	AV	32.00	150	Horizontal	Pass
3	4933.000	50.86	-0.80	74.0	23.14	Peak	242.00	150	Horizontal	Pass
3**	4933.000	40.49	-0.80	54.0	13.51	AV	242.00	150	Horizontal	Pass
4	5581.000	108.76	-0.71	--	52.24	Peak	161.00	150	Horizontal	N/A
4**	5581.000	99.51	-0.71	--	-99.51	AV	161.00	150	Horizontal	N/A
5	11165.875	53.71	-1.23	74.0	20.29	Peak	117.00	150	Horizontal	Pass
5**	11165.875	43.51	-1.23	54.0	10.49	AV	117.00	150	Horizontal	Pass
6	15929.925	52.70	1.14	74.0	21.30	Peak	16.00	150	Horizontal	Pass
6**	15929.925	42.00	1.14	54.0	12.00	AV	16.00	150	Horizontal	Pass

11ax20 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

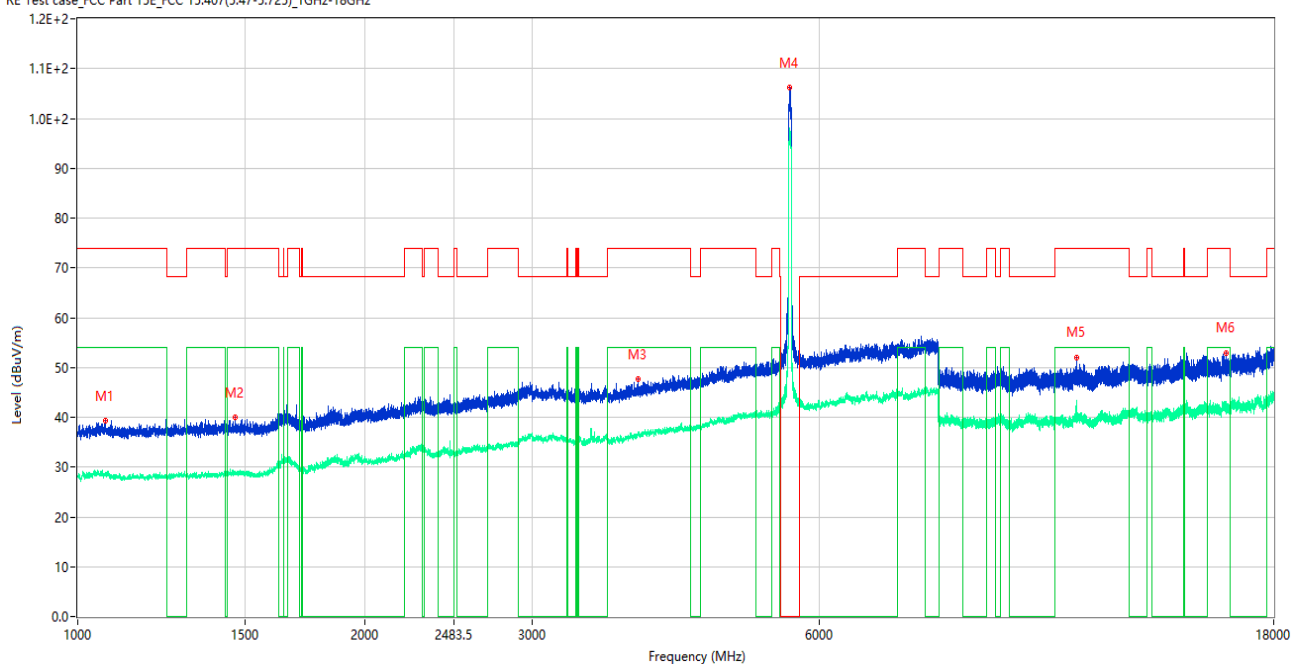
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1084.750	39.92	-15.76	74.0	34.08	Peak	120.00	150	Vertical	Pass
1**	1084.750	28.94	-15.76	54.0	25.06	AV	120.00	150	Vertical	Pass
2	1351.500	39.23	-15.30	74.0	34.77	Peak	360.00	150	Vertical	Pass
2**	1351.500	28.66	-15.30	54.0	25.34	AV	360.00	150	Vertical	Pass
3	4306.000	49.55	-2.72	74.0	24.45	Peak	225.00	150	Vertical	Pass
3**	4306.000	37.72	-2.72	54.0	16.28	AV	225.00	150	Vertical	Pass
4	5582.000	107.42	-0.70	--	47.58	Peak	155.00	150	Vertical	N/A
4**	5582.000	99.85	-0.70	--	-99.85	AV	155.00	150	Vertical	N/A
5	11149.250	50.38	-1.17	74.0	23.62	Peak	239.00	150	Vertical	Pass
5**	11149.250	39.70	-1.17	54.0	14.30	AV	239.00	150	Vertical	Pass
6	15716.513	52.59	1.28	74.0	21.41	Peak	117.00	150	Vertical	Pass
6**	15716.513	41.74	1.28	54.0	12.26	AV	117.00	150	Vertical	Pass

11ax40 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

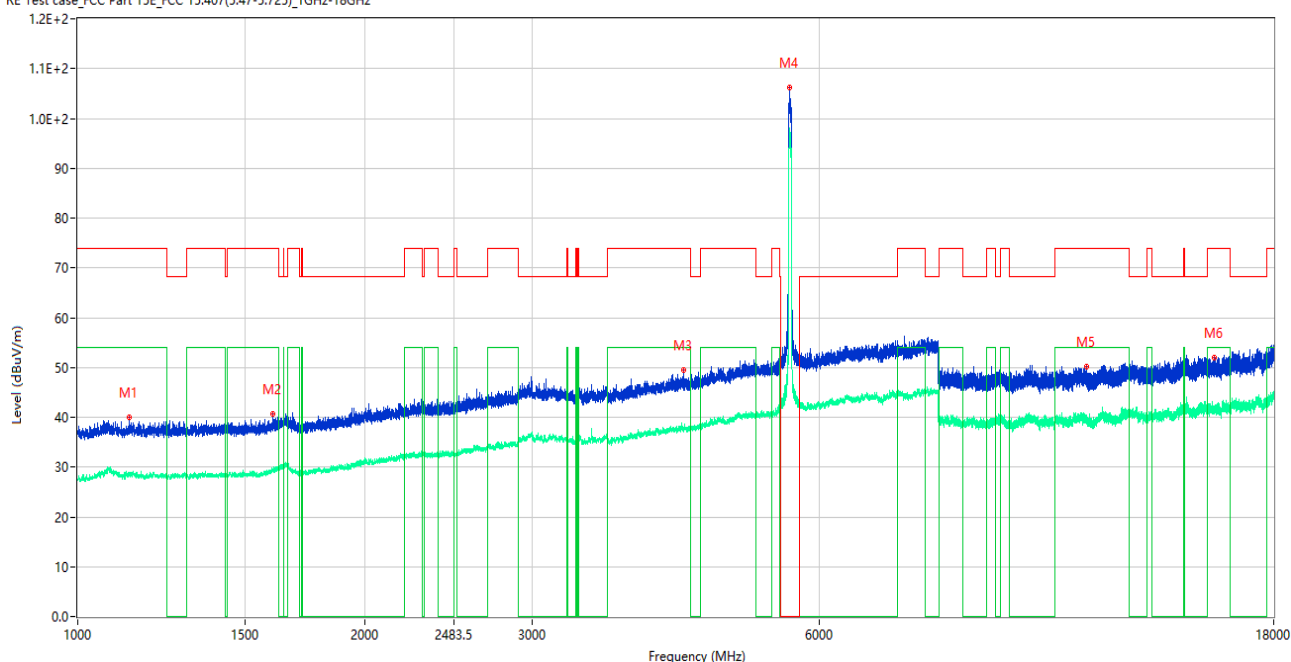
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1068.500	39.38	-15.55	74.0	34.62	Peak	156.00	150	Horizontal	Pass
1**	1068.500	28.89	-15.55	54.0	25.11	AV	156.00	150	Horizontal	Pass
2	1464.250	40.06	-15.44	74.0	33.94	Peak	237.00	150	Horizontal	Pass
2**	1464.250	28.74	-15.44	54.0	25.26	AV	237.00	150	Horizontal	Pass
3	3873.500	47.77	-4.11	74.0	26.23	Peak	252.00	150	Horizontal	Pass
3**	3873.500	36.39	-4.11	54.0	17.61	AV	252.00	150	Horizontal	Pass
4	5589.500	106.15	-0.59	--	36.85	Peak	143.00	150	Horizontal	N/A
4**	5589.500	97.52	-0.59	--	-97.52	AV	143.00	150	Horizontal	N/A
5	11180.363	51.95	-1.53	74.0	22.05	Peak	143.00	150	Horizontal	Pass
5**	11180.363	42.34	-1.53	54.0	11.66	AV	143.00	150	Horizontal	Pass
6	16055.925	52.83	1.75	74.0	21.17	Peak	360.00	150	Horizontal	Pass
6**	16055.925	42.50	1.75	54.0	11.50	AV	360.00	150	Horizontal	Pass

11ax40 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

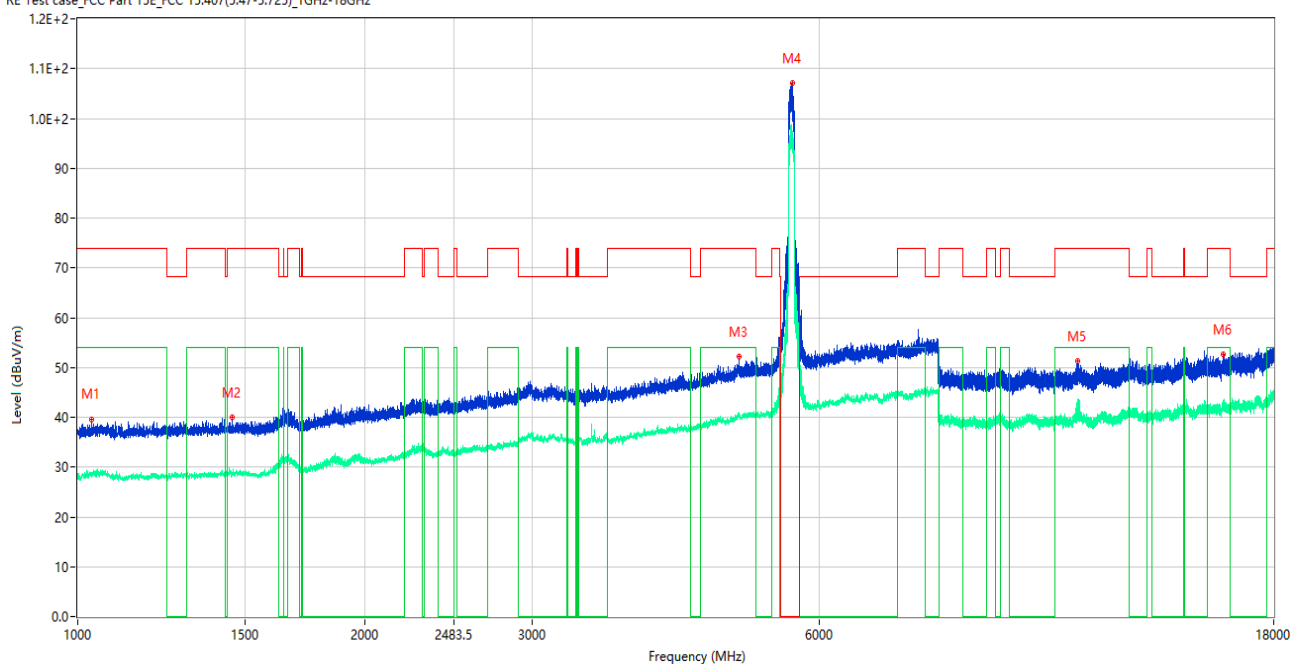
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1132.250	40.00	-15.56	74.0	34.00	Peak	259.00	150	Vertical	Pass
1**	1132.250	28.61	-15.56	54.0	25.39	AV	259.00	150	Vertical	Pass
2	1600.750	40.63	-15.23	74.0	33.37	Peak	286.00	150	Vertical	Pass
2**	1600.750	29.44	-15.23	54.0	24.56	AV	286.00	150	Vertical	Pass
3	4325.000	49.56	-2.83	74.0	24.44	Peak	50.00	150	Vertical	Pass
3**	4325.000	37.48	-2.83	54.0	16.52	AV	50.00	150	Vertical	Pass
4	5584.000	106.30	-0.66	--	51.70	Peak	158.00	150	Vertical	N/A
4**	5584.000	96.50	-0.66	--	-96.50	AV	158.00	150	Vertical	N/A
5	11440.187	50.16	-1.32	74.0	23.84	Peak	360.00	150	Vertical	Pass
5**	11440.187	39.15	-1.32	54.0	14.85	AV	360.00	150	Vertical	Pass
6	15581.587	51.95	0.32	74.0	22.05	Peak	51.00	150	Vertical	Pass
6**	15581.587	41.80	0.32	54.0	12.20	AV	51.00	150	Vertical	Pass

11ax80 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

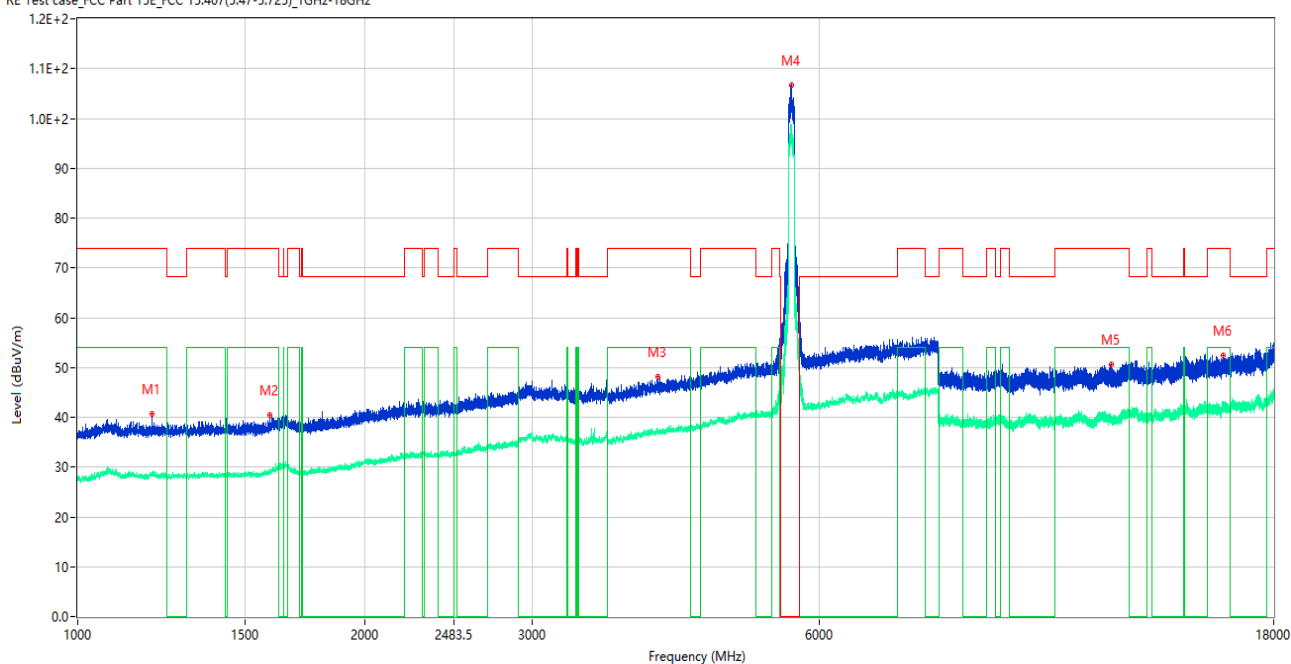
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1034.500	39.65	-15.83	74.0	34.35	Peak	160.00	150	Horizontal	Pass
1**	1034.500	28.38	-15.83	54.0	25.62	AV	160.00	150	Horizontal	Pass
2	1453.750	39.98	-15.37	74.0	34.02	Peak	360.00	150	Horizontal	Pass
2**	1453.750	28.54	-15.37	54.0	25.46	AV	360.00	150	Horizontal	Pass
3	4947.000	52.25	-0.52	74.0	21.75	Peak	4.00	150	Horizontal	Pass
3**	4947.000	40.15	-0.52	54.0	13.85	AV	4.00	150	Horizontal	Pass
4	5624.500	107.10	-0.13	--	50.90	Peak	158.00	150	Horizontal	N/A
4**	5624.500	97.15	-0.13	--	-97.15	AV	158.00	150	Horizontal	N/A
5	11210.287	51.38	-1.47	74.0	22.62	Peak	140.00	150	Horizontal	Pass
5**	11210.287	41.90	-1.47	54.0	12.10	AV	140.00	150	Horizontal	Pass
6	15931.237	52.72	1.32	74.0	21.28	Peak	188.00	150	Horizontal	Pass
6**	15931.237	42.27	1.32	54.0	11.73	AV	188.00	150	Horizontal	Pass

11ax80 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

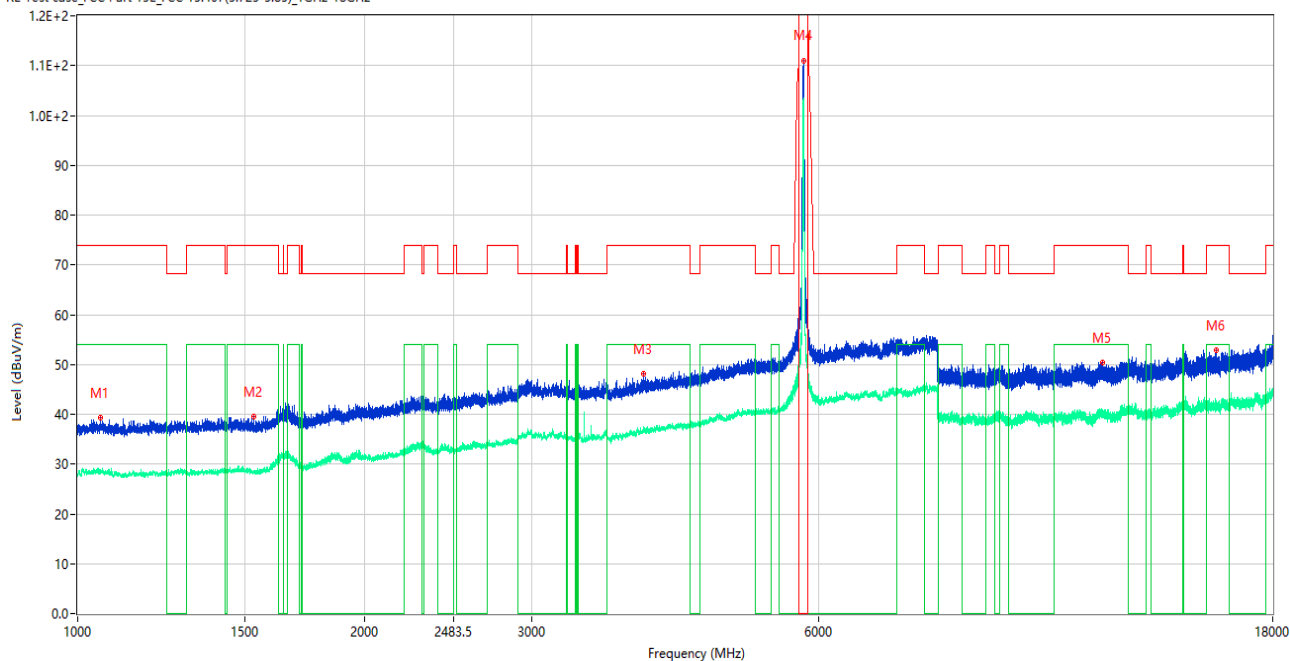
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.000	40.57	-15.26	74.0	33.43	Peak	154.00	150	Vertical	Pass
1**	1197.000	28.46	-15.26	54.0	25.54	AV	154.00	150	Vertical	Pass
2	1591.250	40.49	-15.42	74.0	33.51	Peak	360.00	150	Vertical	Pass
2**	1591.250	28.65	-15.42	54.0	25.35	AV	360.00	150	Vertical	Pass
3	4059.500	48.21	-2.97	74.0	25.79	Peak	191.00	150	Vertical	Pass
3**	4059.500	37.23	-2.97	54.0	16.77	AV	191.00	150	Vertical	Pass
4	5607.000	106.63	-0.34	--	44.37	Peak	151.00	150	Vertical	N/A
4**	5607.000	98.55	-0.34	--	-98.55	AV	151.00	150	Vertical	N/A
5	12152.925	50.54	-1.16	74.0	23.46	Peak	166.00	150	Vertical	Pass
5**	12152.925	39.50	-1.16	54.0	14.50	AV	166.00	150	Vertical	Pass
6	15943.050	52.45	1.42	74.0	21.55	Peak	0.00	150	Vertical	Pass
6**	15943.050	42.27	1.42	54.0	11.73	AV	0.00	150	Vertical	Pass

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

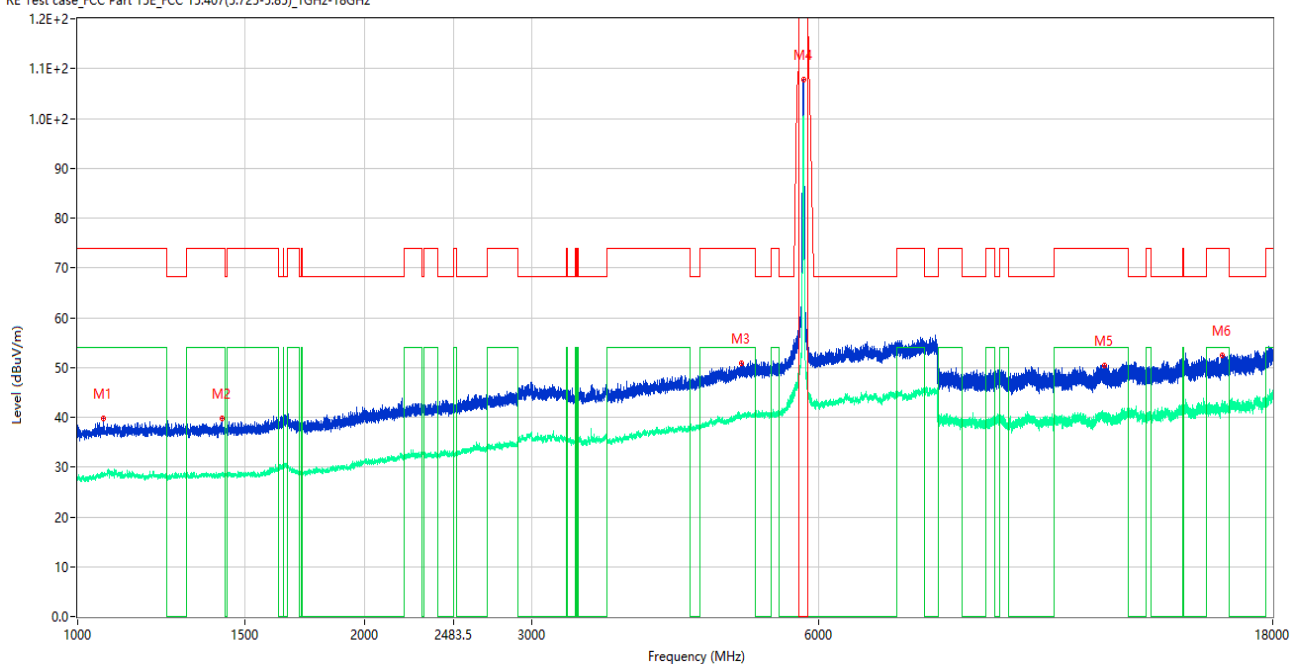
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1056.000	39.28	-15.63	74.0	34.72	Peak	337.00	150	Horizontal	Pass
1**	1056.000	28.71	-15.63	54.0	25.29	AV	337.00	150	Horizontal	Pass
2	1531.250	39.50	-15.41	74.0	34.50	Peak	60.00	150	Horizontal	Pass
2**	1531.250	28.43	-15.41	54.0	25.57	AV	60.00	150	Horizontal	Pass
3	3933.500	48.10	-2.77	74.0	25.90	Peak	272.00	150	Horizontal	Pass
3**	3933.500	37.10	-2.77	54.0	16.90	AV	272.00	150	Horizontal	Pass
4	5786.000	111.06	0.38	--	49.94	Peak	161.00	150	Horizontal	N/A
4**	5786.000	103.10	0.38	--	-103.10	AV	161.00	150	Horizontal	N/A
5	11936.088	50.38	-1.14	74.0	23.62	Peak	119.00	150	Horizontal	Pass
5**	11936.088	40.23	-1.14	54.0	13.77	AV	119.00	150	Horizontal	Pass
6	15715.463	52.83	1.20	74.0	21.17	Peak	15.00	150	Horizontal	Pass
6**	15715.463	42.07	1.20	54.0	11.93	AV	15.00	150	Horizontal	Pass

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

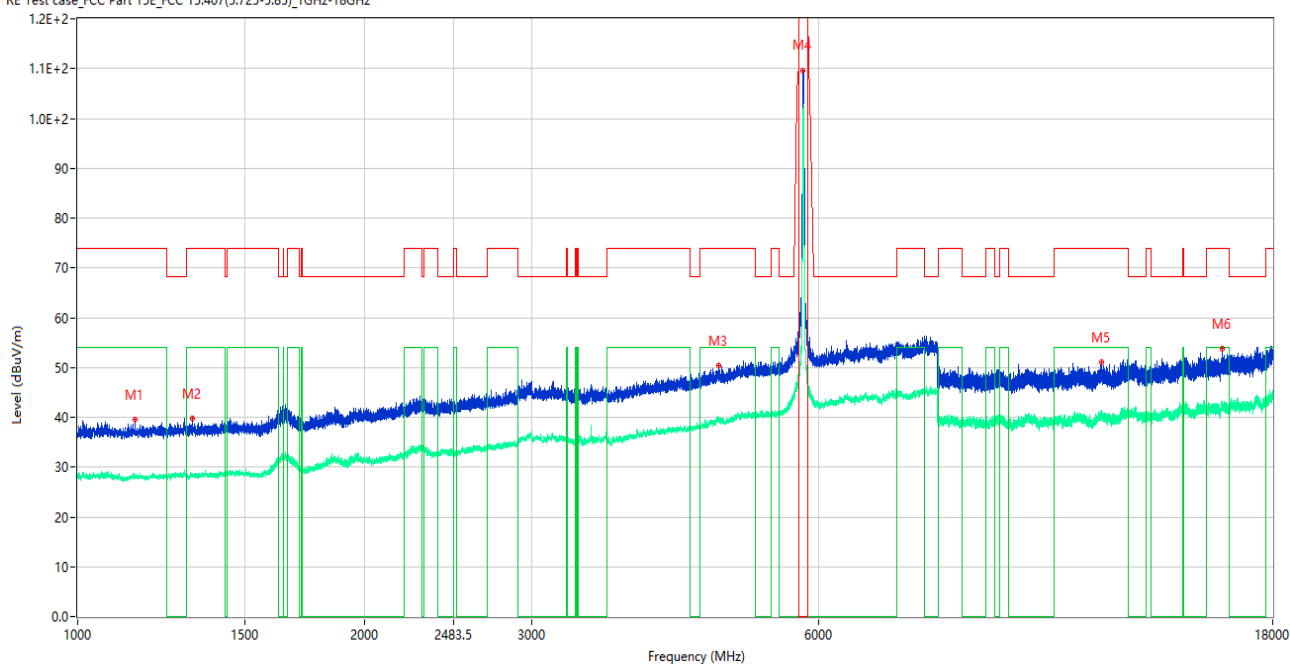
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.000	39.71	-15.57	74.0	34.29	Peak	202.00	150	Vertical	Pass
1**	1064.000	28.50	-15.57	54.0	25.50	AV	202.00	150	Vertical	Pass
2	1417.750	39.69	-15.34	74.0	34.31	Peak	307.00	150	Vertical	Pass
2**	1417.750	28.84	-15.34	54.0	25.16	AV	307.00	150	Vertical	Pass
3	4975.000	50.93	-1.23	74.0	23.07	Peak	0.00	150	Vertical	Pass
3**	4975.000	40.34	-1.23	54.0	13.66	AV	0.00	150	Vertical	Pass
4	5786.000	107.83	0.38	--	22.17	Peak	130.00	150	Vertical	N/A
4**	5786.000	99.80	0.38	--	-99.80	AV	130.00	150	Vertical	N/A
5	11973.850	50.43	-1.07	74.0	23.57	Peak	115.00	150	Vertical	Pass
5**	11973.850	40.02	-1.07	54.0	13.98	AV	115.00	150	Vertical	Pass
6	15940.688	52.41	1.54	74.0	21.59	Peak	84.00	150	Vertical	Pass
6**	15940.688	42.85	1.54	54.0	11.15	AV	84.00	150	Vertical	Pass

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

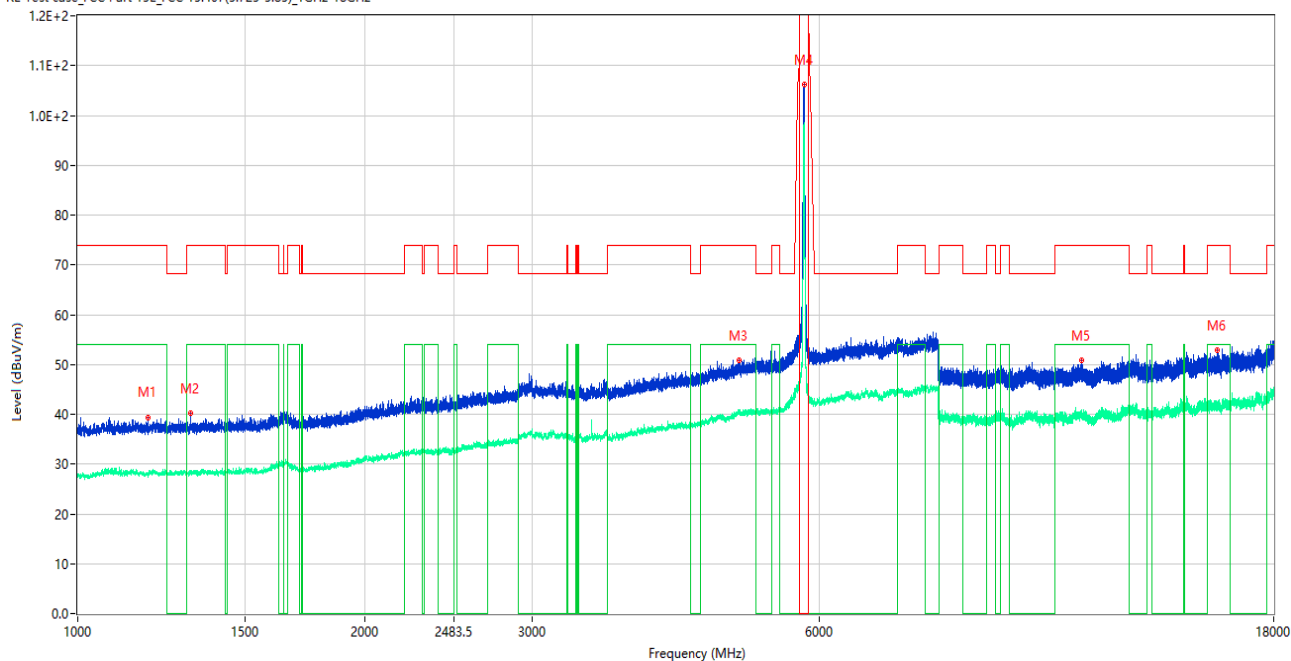
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1147.750	39.46	-15.34	74.0	34.54	Peak	4.00	150	Horizontal	Pass
1**	1147.750	28.07	-15.34	54.0	25.93	AV	4.00	150	Horizontal	Pass
2	1319.000	39.72	-15.34	74.0	34.28	Peak	176.00	150	Horizontal	Pass
2**	1319.000	27.96	-15.34	54.0	26.04	AV	176.00	150	Horizontal	Pass
3	4712.000	50.42	-2.11	74.0	23.58	Peak	270.00	150	Horizontal	Pass
3**	4712.000	39.70	-2.11	54.0	14.30	AV	270.00	150	Horizontal	Pass
4	5783.500	109.72	0.33	--	51.28	Peak	161.00	150	Horizontal	N/A
4**	5783.500	101.84	0.33	--	-101.84	AV	161.00	150	Horizontal	N/A
5	11901.412	50.99	-0.83	74.0	23.01	Peak	333.00	150	Horizontal	Pass
5**	11901.412	40.45	-0.83	54.0	13.55	AV	333.00	150	Horizontal	Pass
6	15938.326	53.86	1.57	74.0	20.14	Peak	152.00	150	Horizontal	Pass
6**	15938.326	42.35	1.57	54.0	11.65	AV	152.00	150	Horizontal	Pass

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

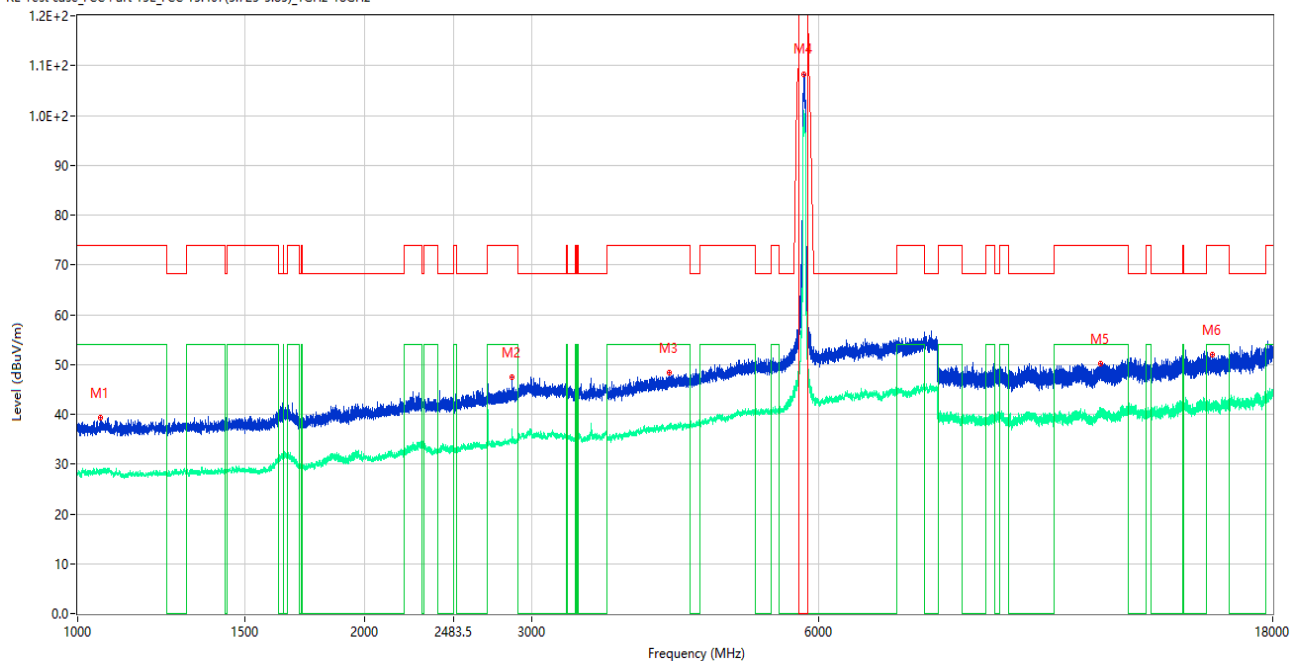
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1184.250	39.41	-15.46	74.0	34.59	Peak	139.00	150	Vertical	Pass
1**	1184.250	27.41	-15.46	54.0	26.59	AV	139.00	150	Vertical	Pass
2	1314.500	40.18	-15.37	74.0	33.82	Peak	115.00	150	Vertical	Pass
2**	1314.500	28.38	-15.37	54.0	25.62	AV	115.00	150	Vertical	Pass
3	4946.000	50.92	-0.52	74.0	23.08	Peak	80.00	150	Vertical	Pass
3**	4946.000	40.03	-0.52	54.0	13.97	AV	80.00	150	Vertical	Pass
4	5785.000	106.19	0.36	--	32.81	Peak	139.00	150	Vertical	N/A
4**	5785.000	98.35	0.36	--	-98.35	AV	139.00	150	Vertical	N/A
5	11313.362	50.81	-1.36	74.0	23.19	Peak	7.00	150	Vertical	Pass
5**	11313.362	39.81	-1.36	54.0	14.19	AV	7.00	150	Vertical	Pass
6	15712.050	52.92	1.42	74.0	21.08	Peak	0.00	150	Vertical	Pass
6**	15712.050	41.98	1.42	54.0	12.02	AV	0.00	150	Vertical	Pass

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

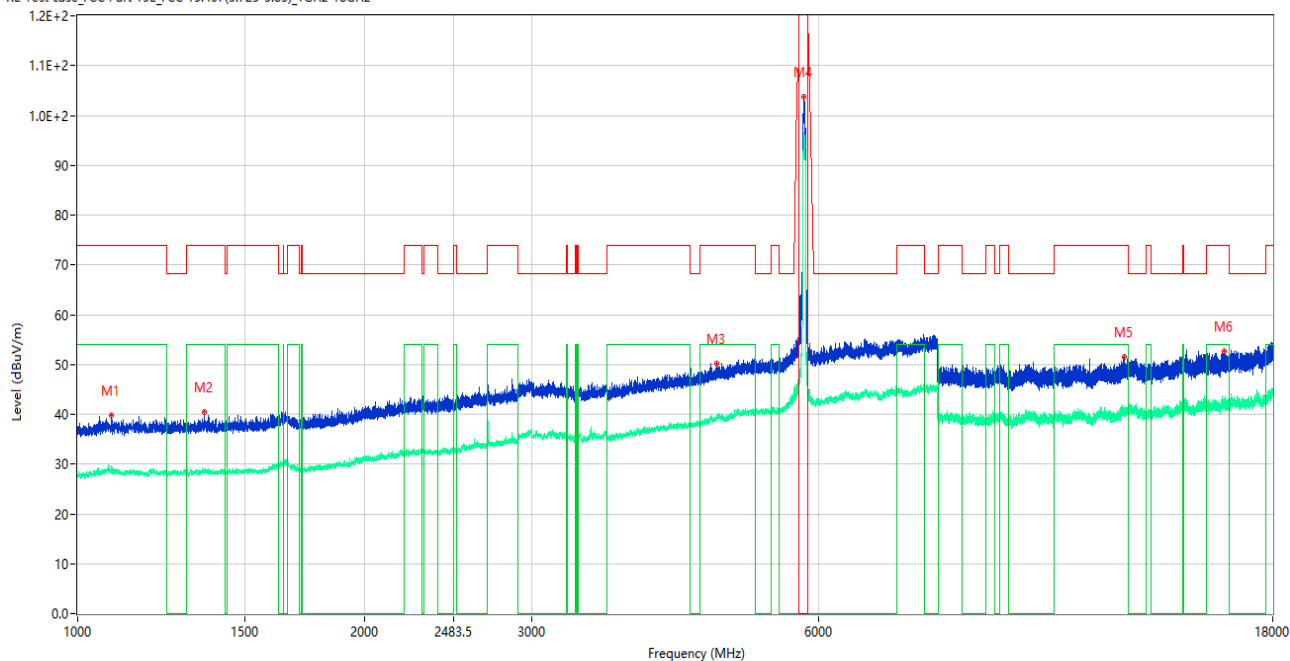
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1057.250	39.35	-15.62	74.0	34.65	Peak	208.00	150	Horizontal	Pass
1**	1057.250	28.34	-15.62	54.0	25.66	AV	208.00	150	Horizontal	Pass
2	2859.250	47.53	-7.61	74.0	26.47	Peak	199.00	150	Horizontal	Pass
2**	2859.250	36.63	-7.61	54.0	17.37	AV	199.00	150	Horizontal	Pass
3	4179.500	48.31	-3.09	74.0	25.69	Peak	360.00	150	Horizontal	Pass
3**	4179.500	37.56	-3.09	54.0	16.44	AV	360.00	150	Horizontal	Pass
4	5793.500	108.34	0.34	--	42.66	Peak	151.00	150	Horizontal	N/A
4**	5793.500	100.45	0.34	--	-100.45	AV	151.00	150	Horizontal	N/A
5	11870.775	50.21	-0.72	74.0	23.79	Peak	141.00	150	Horizontal	Pass
5**	11870.775	40.75	-0.72	54.0	13.25	AV	141.00	150	Horizontal	Pass
6	15560.588	51.94	0.59	74.0	22.06	Peak	50.00	150	Horizontal	Pass
6**	15560.588	40.89	0.59	54.0	13.11	AV	50.00	150	Horizontal	Pass

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

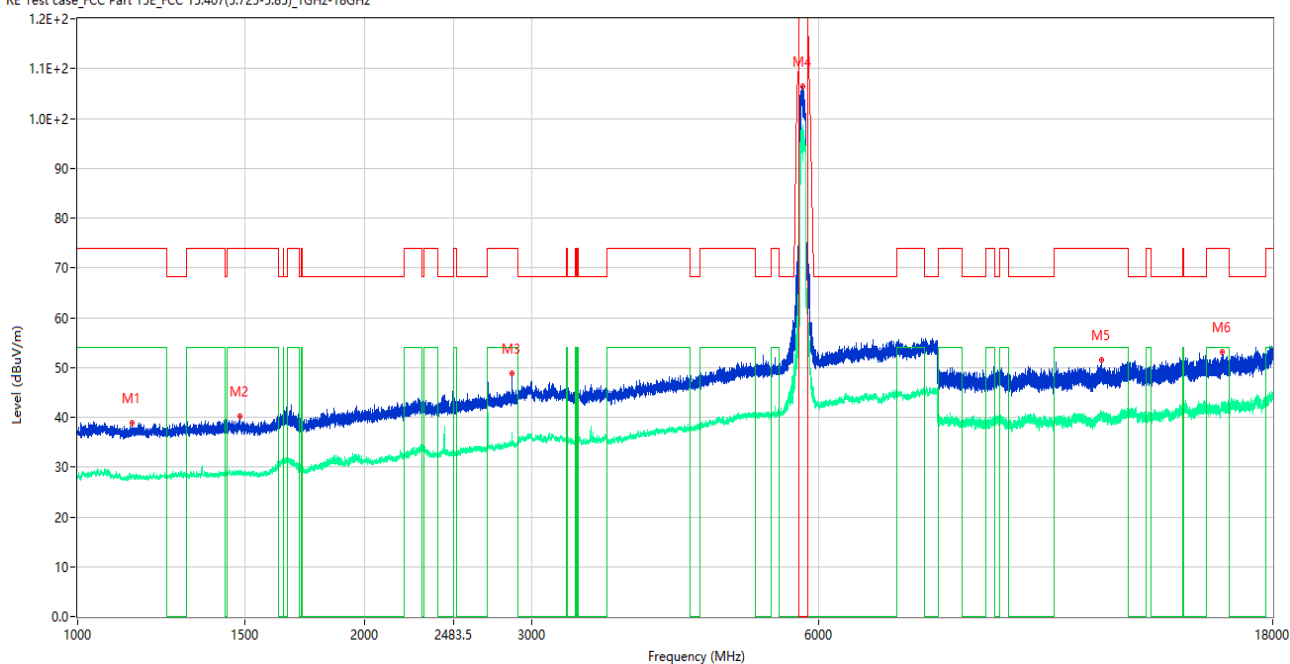
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1084.750	39.73	-15.76	74.0	34.27	Peak	132.00	150	Vertical	Pass
1**	1084.750	28.44	-15.76	54.0	25.56	AV	132.00	150	Vertical	Pass
2	1358.250	40.51	-15.35	74.0	33.49	Peak	340.00	150	Vertical	Pass
2**	1358.250	28.74	-15.35	54.0	25.26	AV	340.00	150	Vertical	Pass
3	4686.500	50.10	-2.24	74.0	23.90	Peak	219.00	150	Vertical	Pass
3**	4686.500	39.23	-2.24	54.0	14.77	AV	219.00	150	Vertical	Pass
4	5796.500	103.62	0.39	--	75.38	Peak	179.00	150	Vertical	N/A
4**	5796.500	95.85	0.39	--	-95.85	AV	179.00	150	Vertical	N/A
5	12574.012	51.48	-0.30	74.0	22.52	Peak	360.00	150	Vertical	Pass
5**	12574.012	40.25	-0.30	54.0	13.75	AV	360.00	150	Vertical	Pass
6	16023.113	52.64	0.85	74.0	21.36	Peak	152.00	150	Vertical	Pass
6**	16023.113	41.27	0.85	54.0	12.73	AV	152.00	150	Vertical	Pass

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

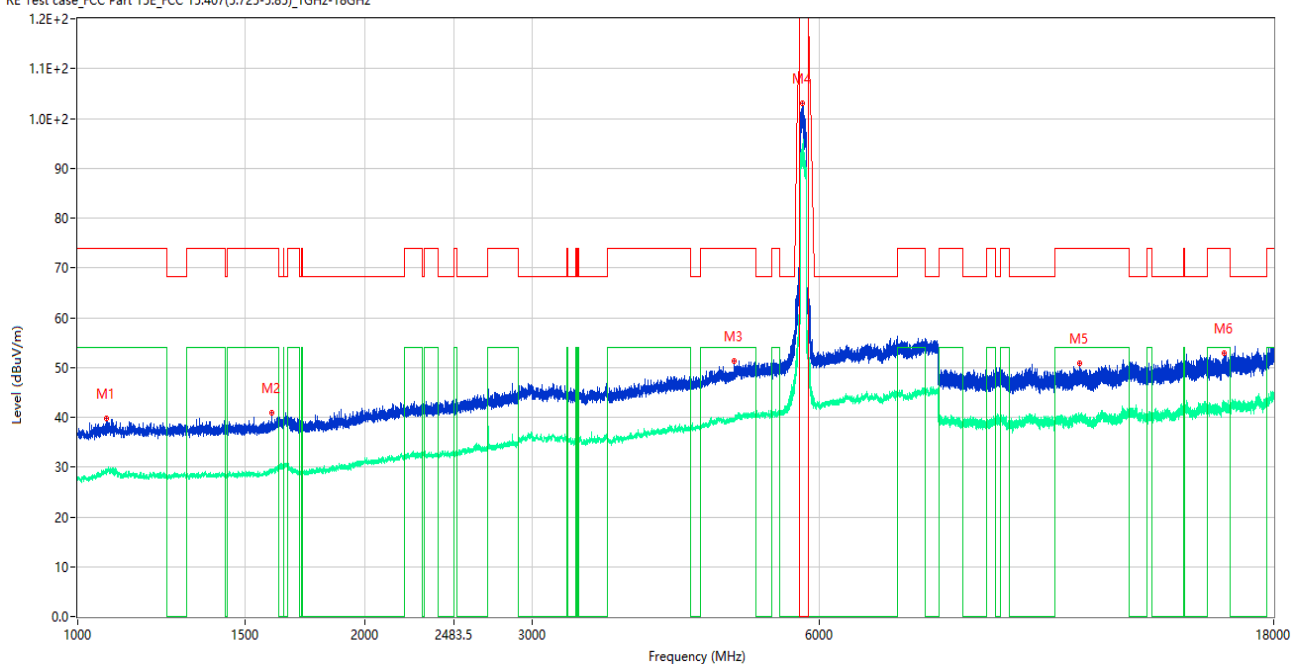
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1141.250	38.89	-15.38	74.0	35.11	Peak	360.00	150	Horizontal	Pass
1**	1141.250	28.05	-15.38	54.0	25.95	AV	360.00	150	Horizontal	Pass
2	1480.750	40.20	-15.64	74.0	33.80	Peak	237.00	150	Horizontal	Pass
2**	1480.750	28.90	-15.64	54.0	25.10	AV	237.00	150	Horizontal	Pass
3	2860.500	48.77	-7.56	74.0	25.23	Peak	216.00	150	Horizontal	Pass
3**	2860.500	36.63	-7.56	54.0	17.37	AV	216.00	150	Horizontal	Pass
4	5773.000	106.40	0.43	--	42.60	Peak	149.00	150	Horizontal	N/A
4**	5773.000	98.77	0.43	--	-98.77	AV	149.00	150	Horizontal	N/A
5	11905.212	51.49	-0.83	74.0	22.51	Peak	331.00	150	Horizontal	Pass
5**	11905.212	40.41	-0.83	54.0	13.59	AV	331.00	150	Horizontal	Pass
6	15937.013	53.07	1.54	74.0	20.93	Peak	360.00	150	Horizontal	Pass
6**	15937.013	42.29	1.54	54.0	11.71	AV	360.00	150	Horizontal	Pass

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

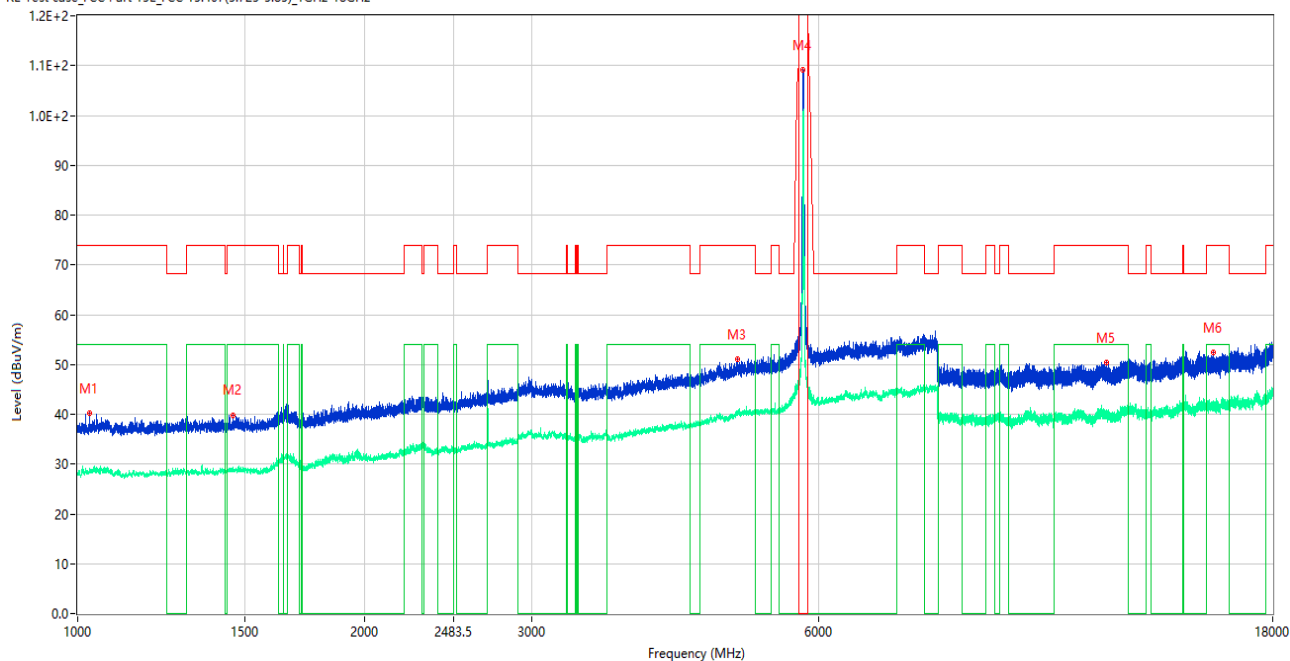
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1071.250	39.80	-15.59	74.0	34.20	Peak	221.00	150	Vertical	Pass
1**	1071.250	29.07	-15.59	54.0	24.93	AV	221.00	150	Vertical	Pass
2	1599.750	40.96	-15.28	74.0	33.04	Peak	255.00	150	Vertical	Pass
2**	1599.750	29.09	-15.28	54.0	24.91	AV	255.00	150	Vertical	Pass
3	4884.000	51.30	-1.30	74.0	22.70	Peak	338.00	150	Vertical	Pass
3**	4884.000	39.39	-1.30	54.0	14.61	AV	338.00	150	Vertical	Pass
4	5768.000	102.96	0.43	--	35.04	Peak	138.00	150	Vertical	N/A
4**	5768.000	93.41	0.43	--	-93.41	AV	138.00	150	Vertical	N/A
5	11268.950	50.83	-1.35	74.0	23.17	Peak	212.00	150	Vertical	Pass
5**	11268.950	39.73	-1.35	54.0	14.27	AV	212.00	150	Vertical	Pass
6	15970.612	52.84	1.11	74.0	21.16	Peak	353.00	150	Vertical	Pass
6**	15970.612	41.80	1.11	54.0	12.20	AV	353.00	150	Vertical	Pass

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

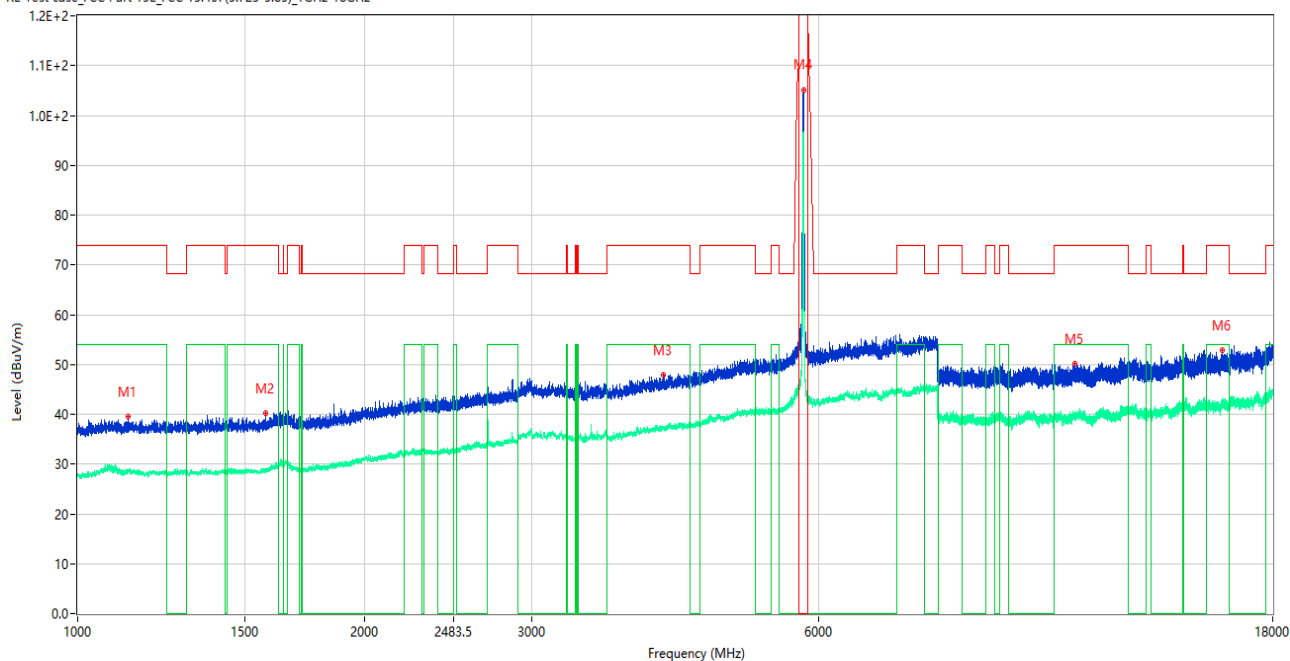
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1029.250	40.14	-15.94	74.0	33.86	Peak	161.00	150	Horizontal	Pass
1**	1029.250	28.40	-15.94	54.0	25.60	AV	161.00	150	Horizontal	Pass
2	1456.250	39.71	-15.38	74.0	34.29	Peak	252.00	150	Horizontal	Pass
2**	1456.250	28.70	-15.38	54.0	25.30	AV	252.00	150	Horizontal	Pass
3	4938.000	51.00	-0.64	74.0	23.00	Peak	270.00	150	Horizontal	Pass
3**	4938.000	40.18	-0.64	54.0	13.82	AV	270.00	150	Horizontal	Pass
4	5783.000	109.16	0.32	--	38.84	Peak	148.00	150	Horizontal	N/A
4**	5783.000	100.50	0.32	--	-100.50	AV	148.00	150	Horizontal	N/A
5	12042.013	50.47	-1.11	74.0	23.53	Peak	360.00	150	Horizontal	Pass
5**	12042.013	39.63	-1.11	54.0	14.37	AV	360.00	150	Horizontal	Pass
6	15576.600	52.47	0.32	74.0	21.53	Peak	360.00	150	Horizontal	Pass
6**	15576.600	41.36	0.32	54.0	12.64	AV	360.00	150	Horizontal	Pass

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

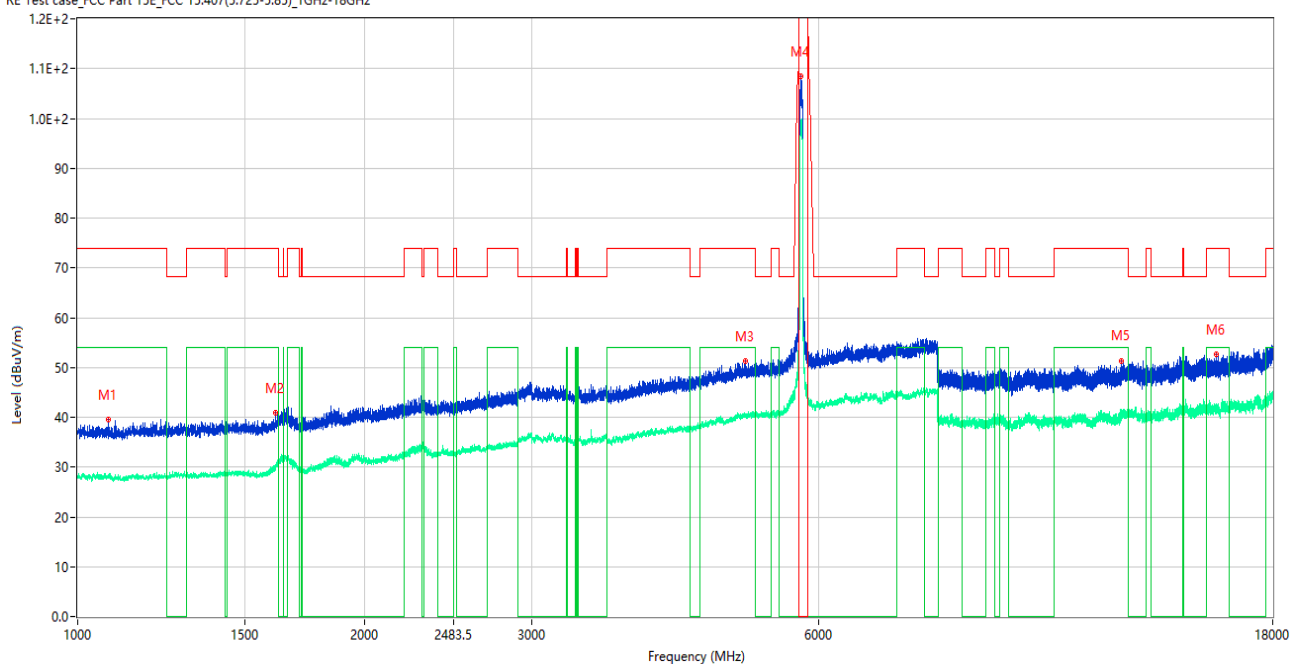
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1128.750	39.45	-15.62	74.0	34.55	Peak	217.00	150	Vertical	Pass
1**	1128.750	28.61	-15.62	54.0	25.39	AV	217.00	150	Vertical	Pass
2	1576.500	40.12	-15.49	74.0	33.88	Peak	360.00	150	Vertical	Pass
2**	1576.500	29.26	-15.49	54.0	24.74	AV	360.00	150	Vertical	Pass
3	4126.500	47.94	-3.45	74.0	26.06	Peak	100.00	150	Vertical	Pass
3**	4126.500	37.02	-3.45	54.0	16.98	AV	100.00	150	Vertical	Pass
4	5786.500	105.17	0.39	--	74.83	Peak	180.00	150	Vertical	N/A
4**	5786.500	96.83	0.39	--	-96.83	AV	180.00	150	Vertical	N/A
5	11158.038	50.13	-1.47	74.0	23.87	Peak	212.00	150	Vertical	Pass
5**	11158.038	39.41	-1.47	54.0	14.59	AV	212.00	150	Vertical	Pass
6	15925.724	52.79	1.19	74.0	21.21	Peak	15.00	150	Vertical	Pass
6**	15925.724	41.97	1.19	54.0	12.03	AV	15.00	150	Vertical	Pass

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

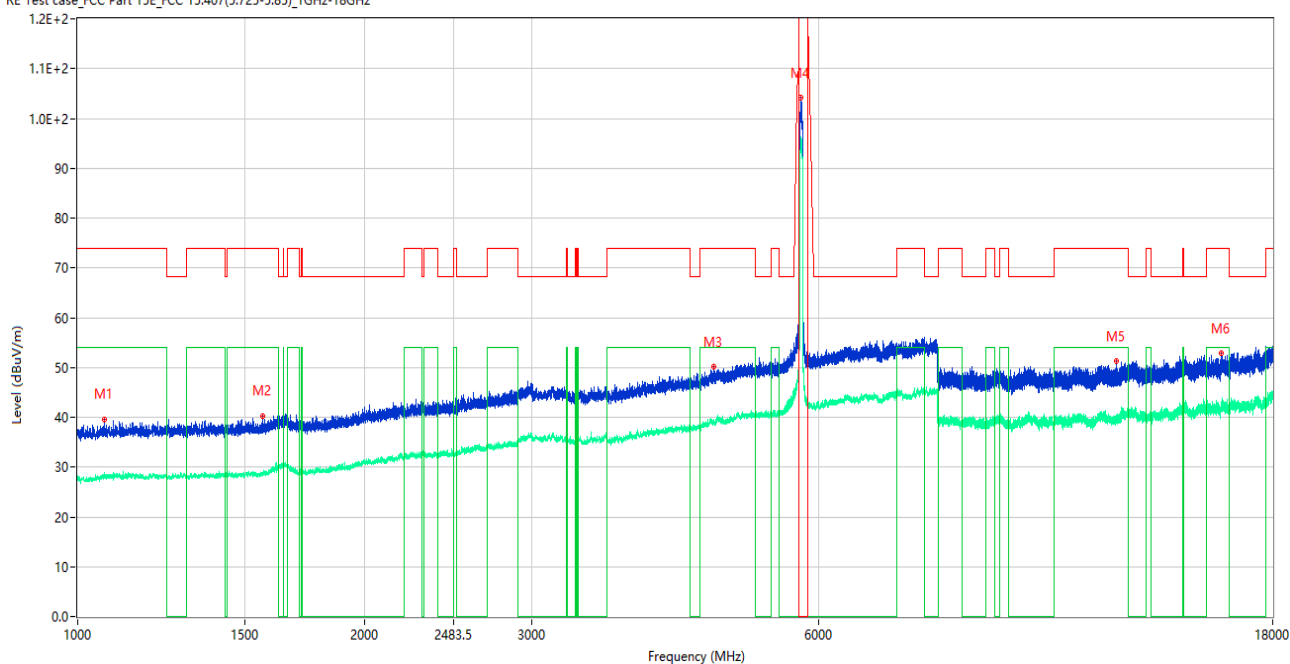
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1078.250	39.45	-15.57	74.0	34.55	Peak	231.00	150	Horizontal	Pass
1**	1078.250	27.93	-15.57	54.0	26.07	AV	231.00	150	Horizontal	Pass
2	1614.750	40.87	-15.17	74.0	33.13	Peak	14.00	150	Horizontal	Pass
2**	1614.750	30.03	-15.17	54.0	23.97	AV	14.00	150	Horizontal	Pass
3	5024.500	51.34	-0.74	74.0	22.66	Peak	180.00	150	Horizontal	Pass
3**	5024.500	40.34	-0.74	54.0	13.66	AV	180.00	150	Horizontal	Pass
4	5756.000	108.41	0.05	--	42.59	Peak	151.00	150	Horizontal	N/A
4**	5756.000	99.11	0.05	--	-99.11	AV	151.00	150	Horizontal	N/A
5	12491.837	51.20	0.16	74.0	22.80	Peak	45.00	150	Horizontal	Pass
5**	12491.837	40.97	0.16	54.0	13.03	AV	45.00	150	Horizontal	Pass
6	15719.663	52.62	1.35	74.0	21.38	Peak	325.00	150	Horizontal	Pass
6**	15719.663	41.47	1.35	54.0	12.53	AV	325.00	150	Horizontal	Pass

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

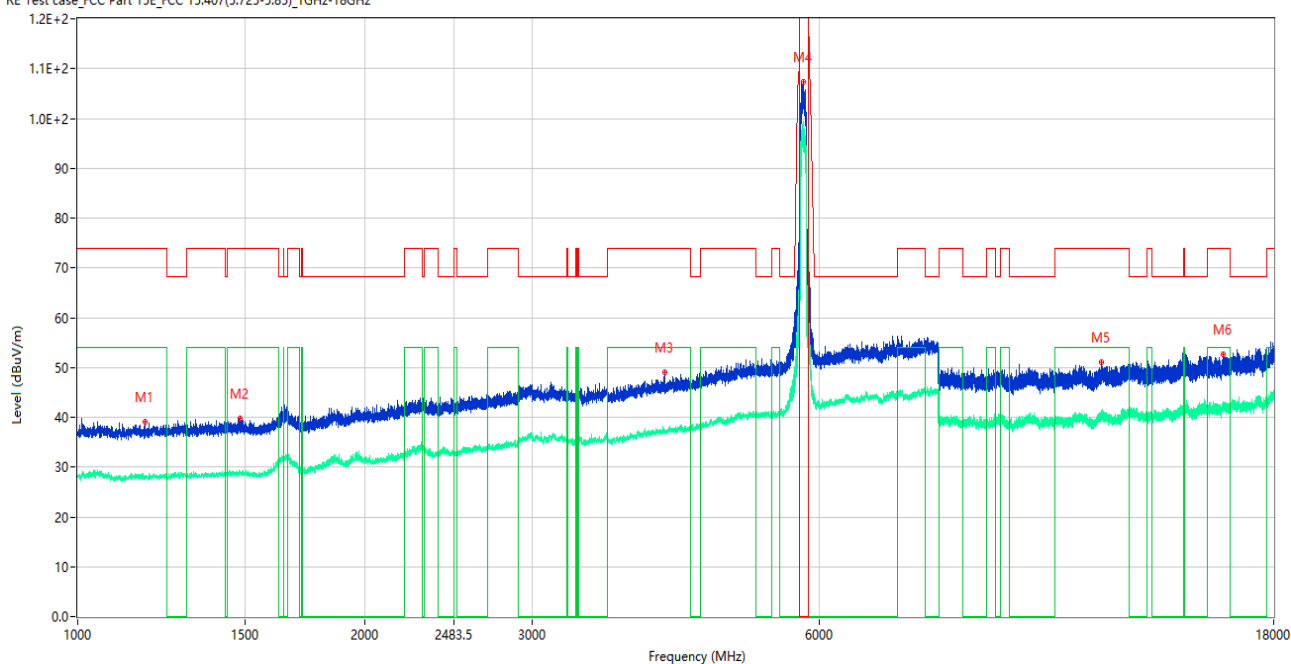
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1067.750	39.66	-15.57	74.0	34.34	Peak	259.00	150	Vertical	Pass
1**	1067.750	28.19	-15.57	54.0	25.81	AV	259.00	150	Vertical	Pass
2	1562.500	40.24	-15.21	74.0	33.76	Peak	14.00	150	Vertical	Pass
2**	1562.500	28.35	-15.21	54.0	25.65	AV	14.00	150	Vertical	Pass
3	4658.000	50.27	-2.03	74.0	23.73	Peak	0.00	150	Vertical	Pass
3**	4658.000	38.83	-2.03	54.0	15.17	AV	0.00	150	Vertical	Pass
4	5754.000	104.16	0.02	--	43.84	Peak	148.00	150	Vertical	N/A
4**	5754.000	95.18	0.02	--	-95.18	AV	148.00	150	Vertical	N/A
5	12333.901	51.31	-0.78	74.0	22.69	Peak	21.00	150	Vertical	Pass
5**	12333.901	39.57	-0.78	54.0	14.43	AV	21.00	150	Vertical	Pass
6	15902.625	52.80	1.20	74.0	21.20	Peak	221.00	150	Vertical	Pass
6**	15902.625	41.72	1.20	54.0	12.28	AV	221.00	150	Vertical	Pass

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

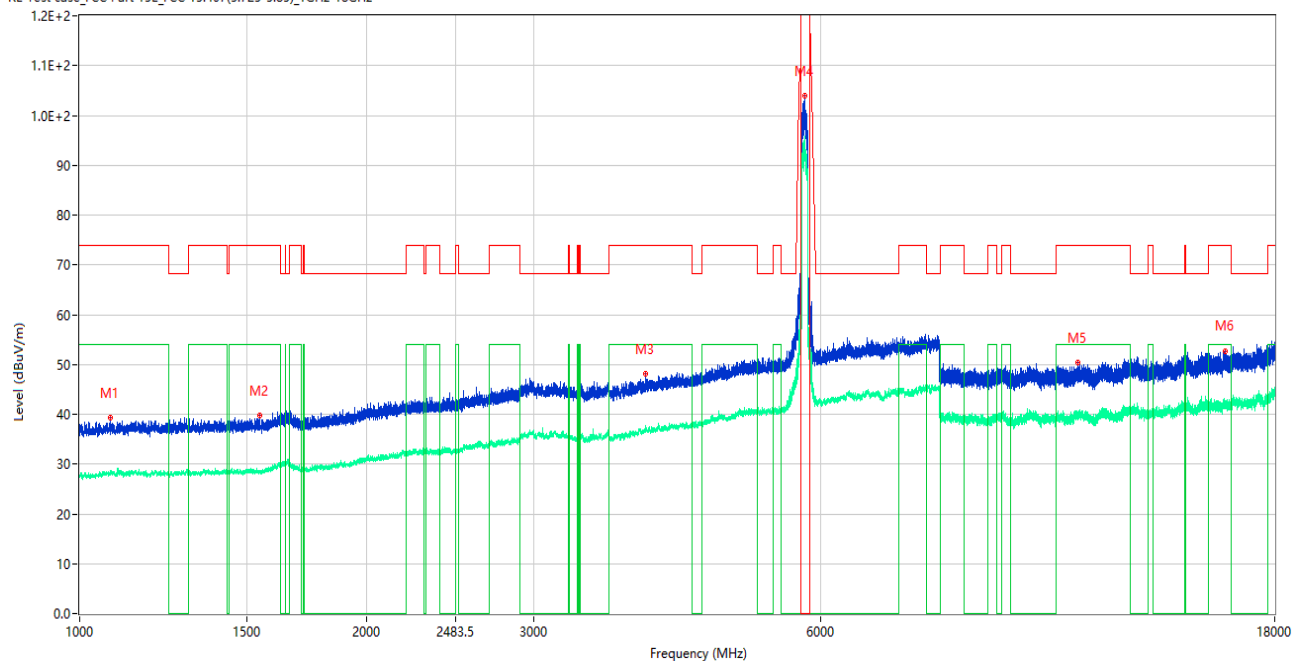
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1175.750	39.07	-15.53	74.0	34.93	Peak	269.00	150	Horizontal	Pass
1**	1175.750	28.07	-15.53	54.0	25.93	AV	269.00	150	Horizontal	Pass
2	1481.000	39.79	-15.64	74.0	34.21	Peak	274.00	150	Horizontal	Pass
2**	1481.000	28.78	-15.64	54.0	25.22	AV	274.00	150	Horizontal	Pass
3	4130.000	49.06	-3.51	74.0	24.94	Peak	129.00	150	Horizontal	Pass
3**	4130.000	37.08	-3.51	54.0	16.92	AV	129.00	150	Horizontal	Pass
4	5773.500	107.32	0.41	--	40.68	Peak	148.00	150	Horizontal	N/A
4**	5773.500	98.81	0.41	--	-98.81	AV	148.00	150	Horizontal	N/A
5	11860.563	51.08	-1.01	74.0	22.92	Peak	190.00	150	Horizontal	Pass
5**	11860.563	40.32	-1.01	54.0	13.68	AV	190.00	150	Horizontal	Pass
6	15935.963	52.67	1.53	74.0	21.33	Peak	360.00	150	Horizontal	Pass
6**	15935.963	42.63	1.53	54.0	11.37	AV	360.00	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

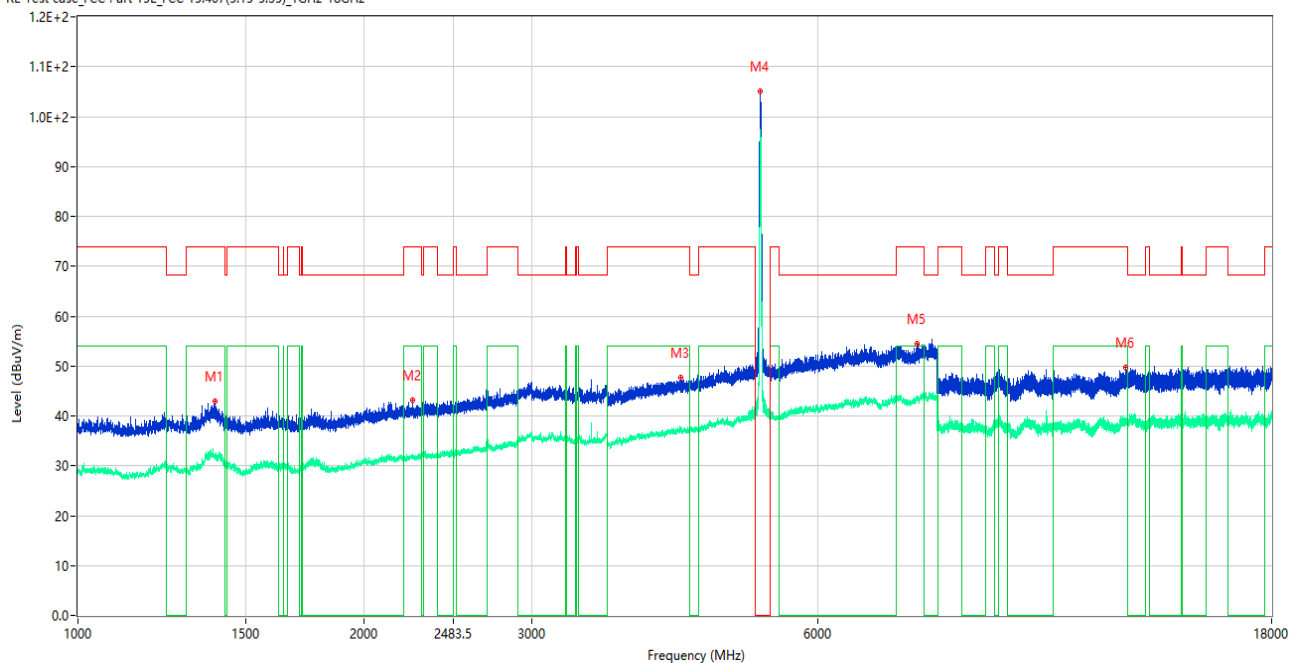


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1077.500	39.24	-15.58	74.0	34.76	Peak	192.00	150	Vertical	Pass
1**	1077.500	28.02	-15.58	54.0	25.98	AV	192.00	150	Vertical	Pass
2	1545.750	39.82	-15.43	74.0	34.18	Peak	33.00	150	Vertical	Pass
2**	1545.750	28.15	-15.43	54.0	25.85	AV	33.00	150	Vertical	Pass
3	3934.000	48.21	-2.82	74.0	25.79	Peak	355.00	150	Vertical	Pass
3**	3934.000	36.96	-2.82	54.0	17.04	AV	355.00	150	Vertical	Pass
4	5772.500	103.92	0.44	--	123.08	Peak	227.00	150	Vertical	N/A
4**	5772.500	95.87	0.44	--	-95.87	AV	227.00	150	Vertical	N/A
5	11190.575	50.34	-1.43	74.0	23.66	Peak	360.00	150	Vertical	Pass
5**	11190.575	39.72	-1.43	54.0	14.28	AV	360.00	150	Vertical	Pass
6	15981.901	52.75	1.14	74.0	21.25	Peak	360.00	150	Vertical	Pass
6**	15981.901	41.57	1.14	54.0	12.43	AV	360.00	150	Vertical	Pass

Aux. Antenna:

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

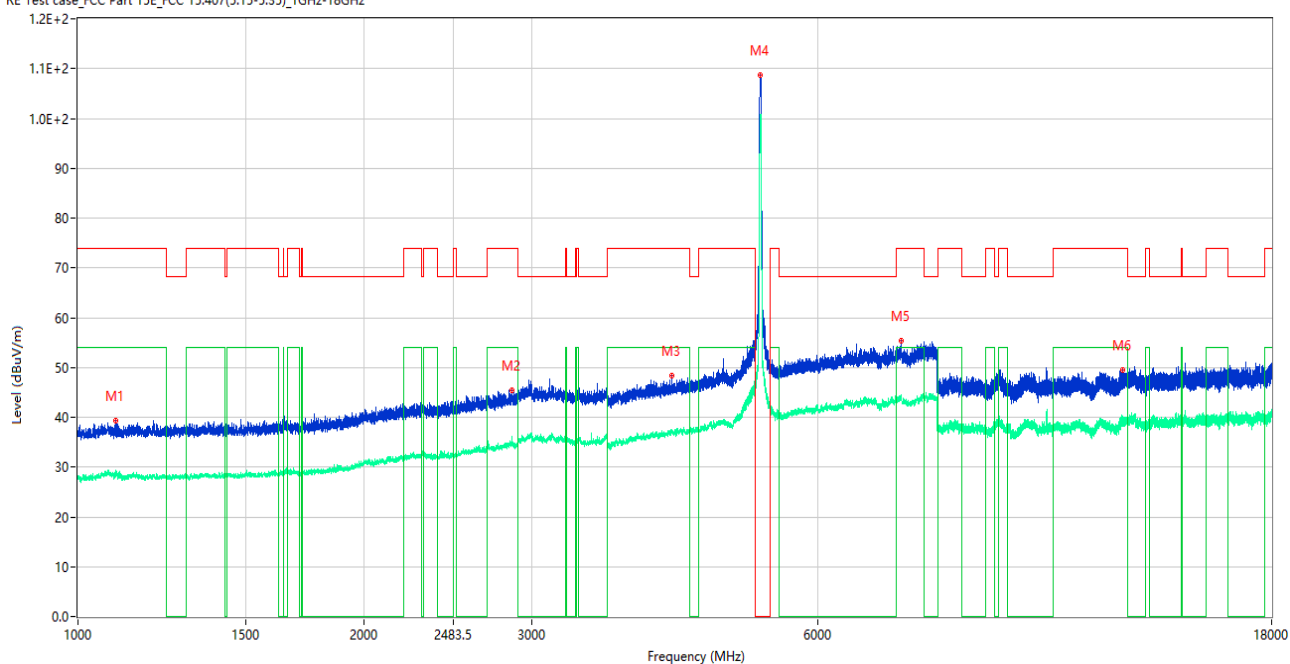
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1394.500	43.02	-15.45	74.0	30.98	Peak	196.00	150	Horizontal	Pass
1**	1394.500	31.80	-15.45	54.0	22.20	AV	196.00	150	Horizontal	Pass
2	2247.750	43.06	-11.40	74.0	30.94	Peak	349.00	150	Horizontal	Pass
2**	2247.750	31.95	-11.40	54.0	22.05	AV	349.00	150	Horizontal	Pass
3	4303.500	47.73	-2.71	74.0	26.27	Peak	1.00	150	Horizontal	Pass
3**	4303.500	37.08	-2.71	54.0	16.92	AV	1.00	150	Horizontal	Pass
4	5222.500	105.06	-0.83	--	146.94	Peak	252.00	150	Horizontal	N/A
4**	5222.500	97.31	-0.83	--	-97.31	AV	252.00	150	Horizontal	N/A
5	7631.000	54.37	2.99	74.0	19.63	Peak	2.00	150	Horizontal	Pass
5**	7631.000	43.34	2.99	54.0	10.66	AV	2.00	150	Horizontal	Pass
6	12646.925	49.68	-0.36	74.0	24.32	Peak	359.00	150	Horizontal	Pass
6**	12646.925	38.96	-0.36	54.0	15.04	AV	359.00	150	Horizontal	Pass

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

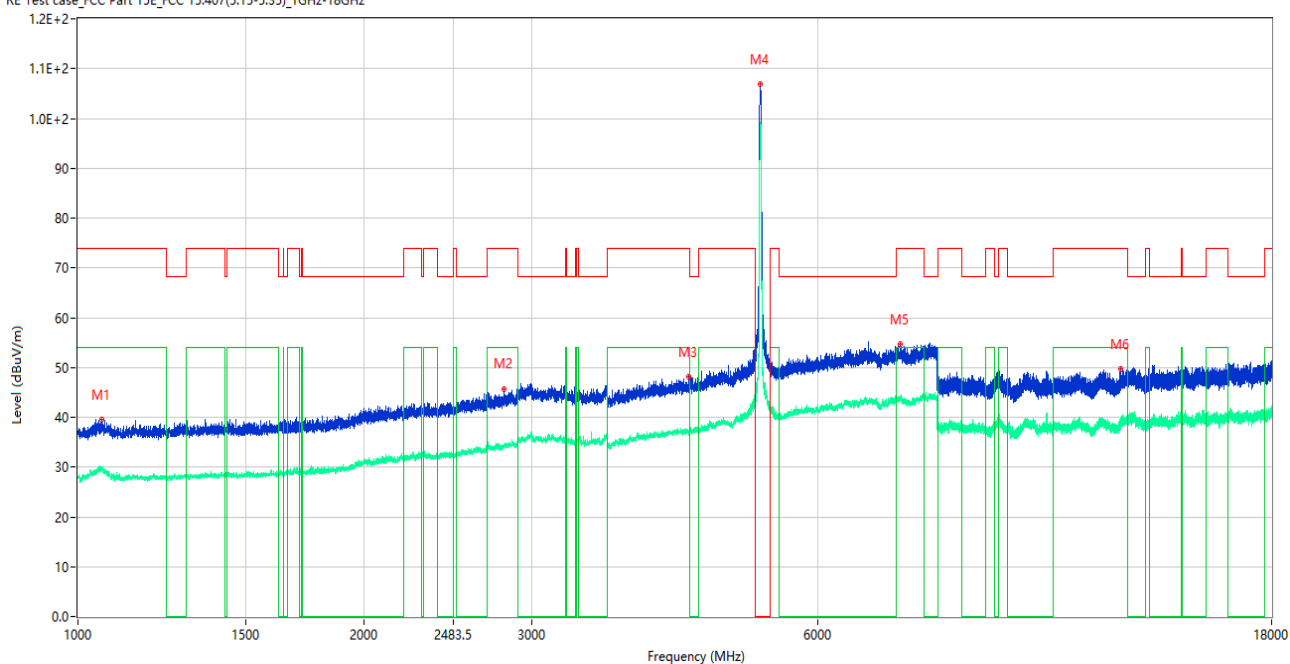
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1096.250	39.33	-15.70	74.0	34.67	Peak	204.00	150	Vertical	Pass
1**	1096.250	28.81	-15.70	54.0	25.19	AV	204.00	150	Vertical	Pass
2	2858.250	45.43	-7.61	74.0	28.57	Peak	153.00	150	Vertical	Pass
2**	2858.250	34.96	-7.61	54.0	19.04	AV	153.00	150	Vertical	Pass
3	4211.000	48.45	-2.36	74.0	25.55	Peak	291.00	150	Vertical	Pass
3**	4211.000	36.94	-2.36	54.0	17.06	AV	291.00	150	Vertical	Pass
4	5221.000	108.68	-0.85	--	110.32	Peak	219.00	150	Vertical	N/A
4**	5221.000	100.71	-0.85	--	-100.71	AV	219.00	150	Vertical	N/A
5	7337.000	55.32	3.02	74.0	18.68	Peak	219.00	150	Vertical	Pass
5**	7337.000	44.61	3.02	54.0	9.39	AV	219.00	150	Vertical	Pass
6	12537.201	49.59	-0.26	74.0	24.41	Peak	21.00	150	Vertical	Pass
6**	12537.201	39.04	-0.26	54.0	14.96	AV	21.00	150	Vertical	Pass

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

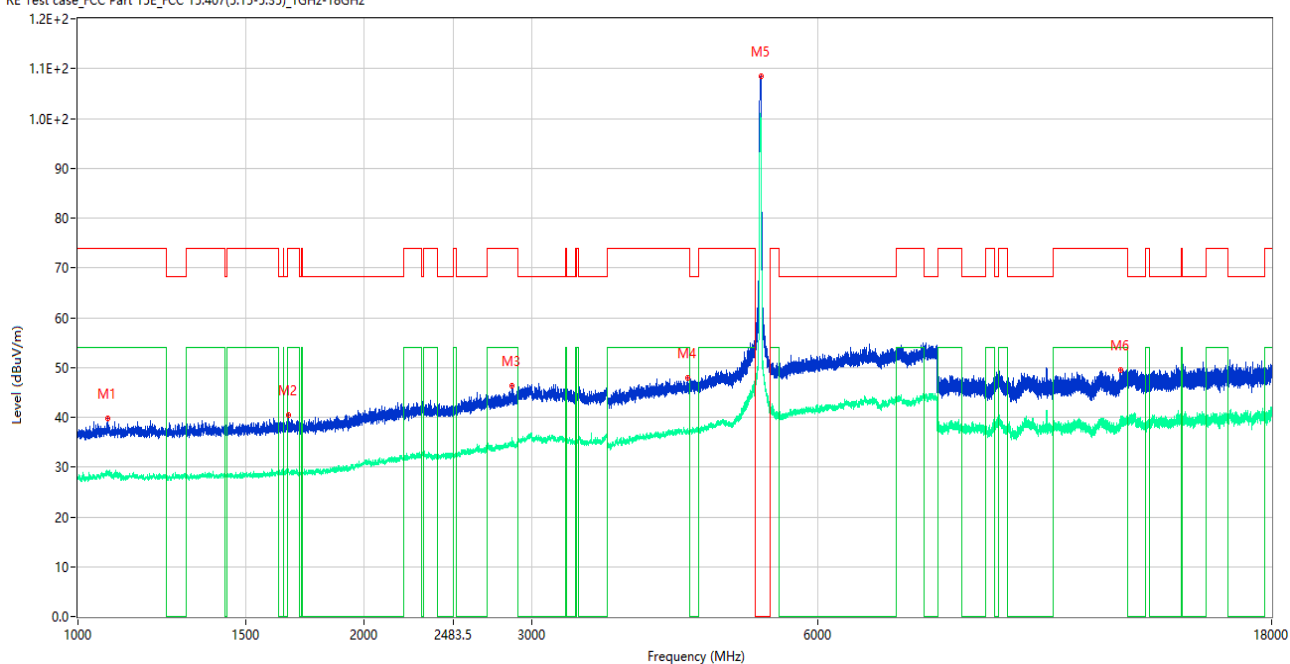
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1060.250	39.49	-15.57	74.0	34.51	Peak	99.00	150	Horizontal	Pass
1**	1060.250	29.53	-15.57	54.0	24.47	AV	99.00	150	Horizontal	Pass
2	2804.750	45.66	-8.38	74.0	28.34	Peak	117.00	150	Horizontal	Pass
2**	2804.750	34.03	-8.38	54.0	19.97	AV	117.00	150	Horizontal	Pass
3	4384.000	48.04	-3.06	74.0	25.96	Peak	180.00	150	Horizontal	Pass
3**	4384.000	37.13	-3.06	54.0	16.87	AV	180.00	150	Horizontal	Pass
4	5218.500	106.82	-0.91	--	153.18	Peak	260.00	150	Horizontal	N/A
4**	5218.500	99.13	-0.91	--	-99.13	AV	260.00	150	Horizontal	N/A
5	7318.000	54.69	2.63	74.0	19.31	Peak	51.00	150	Horizontal	Pass
5**	7318.000	44.20	2.63	54.0	9.80	AV	51.00	150	Horizontal	Pass
6	12495.638	49.61	0.15	74.0	24.39	Peak	0.00	150	Horizontal	Pass
6**	12495.638	39.14	0.15	54.0	14.86	AV	0.00	150	Horizontal	Pass

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

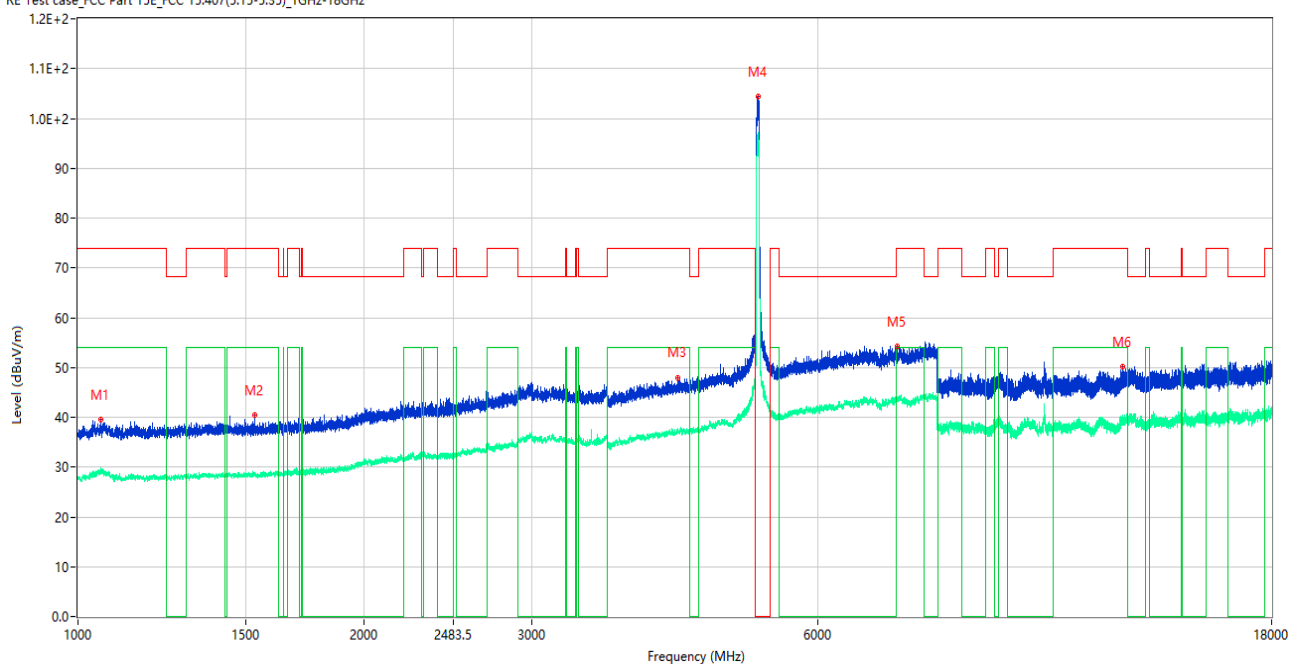
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1075.500	39.70	-15.54	74.0	34.30	Peak	161.00	150	Vertical	Pass
1**	1075.500	28.77	-15.54	54.0	25.23	AV	161.00	150	Vertical	Pass
2	1663.500	40.40	-15.08	74.0	33.60	Peak	184.00	150	Vertical	Pass
2**	1663.500	29.00	-15.08	54.0	25.00	AV	184.00	150	Vertical	Pass
3	2861.000	46.26	-7.55	74.0	27.74	Peak	193.00	150	Vertical	Pass
3**	2861.000	35.03	-7.55	54.0	18.97	AV	193.00	150	Vertical	Pass
4	4377.500	47.84	-2.79	74.0	26.16	Peak	0.00	150	Vertical	Pass
4**	4377.500	37.02	-2.79	54.0	16.98	AV	0.00	150	Vertical	Pass
5	5224.500	108.48	-0.80	--	131.52	Peak	240.00	150	Vertical	N/A
5**	5224.500	99.90	-0.80	--	-99.90	AV	240.00	150	Vertical	N/A
6	12492.550	49.42	0.16	74.0	24.58	Peak	0.00	150	Vertical	Pass
6**	12492.550	39.03	0.16	54.0	14.97	AV	0.00	150	Vertical	Pass

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

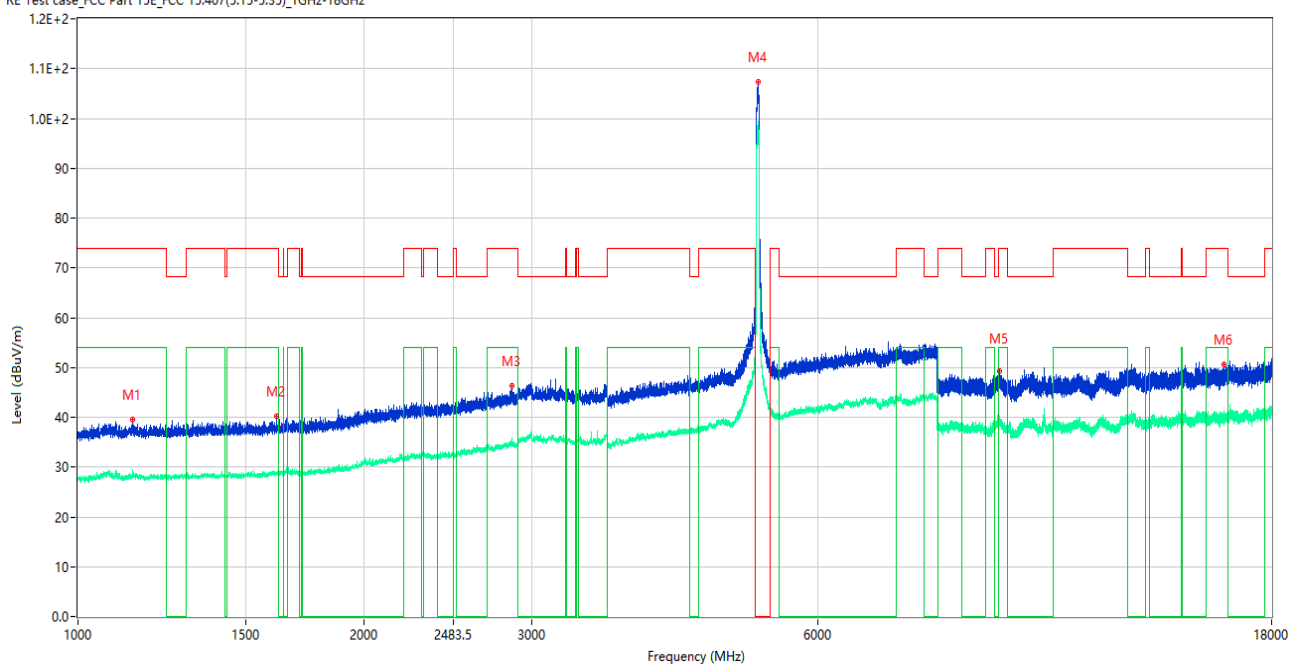
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1056.750	39.44	-15.62	74.0	34.56	Peak	189.00	150	Horizontal	Pass
1**	1056.750	29.73	-15.62	54.0	24.27	AV	189.00	150	Horizontal	Pass
2	1535.250	40.52	-15.42	74.0	33.48	Peak	360.00	150	Horizontal	Pass
2**	1535.250	28.45	-15.42	54.0	25.55	AV	360.00	150	Horizontal	Pass
3	4276.500	48.00	-2.40	74.0	26.00	Peak	261.00	150	Horizontal	Pass
3**	4276.500	36.88	-2.40	54.0	17.12	AV	261.00	150	Horizontal	Pass
4	5187.000	104.41	-1.01	--	156.59	Peak	261.00	150	Horizontal	N/A
4**	5187.000	96.82	-1.01	--	-96.82	AV	261.00	150	Horizontal	N/A
5	7271.000	54.30	2.46	74.0	19.70	Peak	252.00	150	Horizontal	Pass
5**	7271.000	43.99	2.46	54.0	10.01	AV	252.00	150	Horizontal	Pass
6	12538.387	50.19	-0.32	74.0	23.81	Peak	69.00	150	Horizontal	Pass
6**	12538.387	39.18	-0.32	54.0	14.82	AV	69.00	150	Horizontal	Pass

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

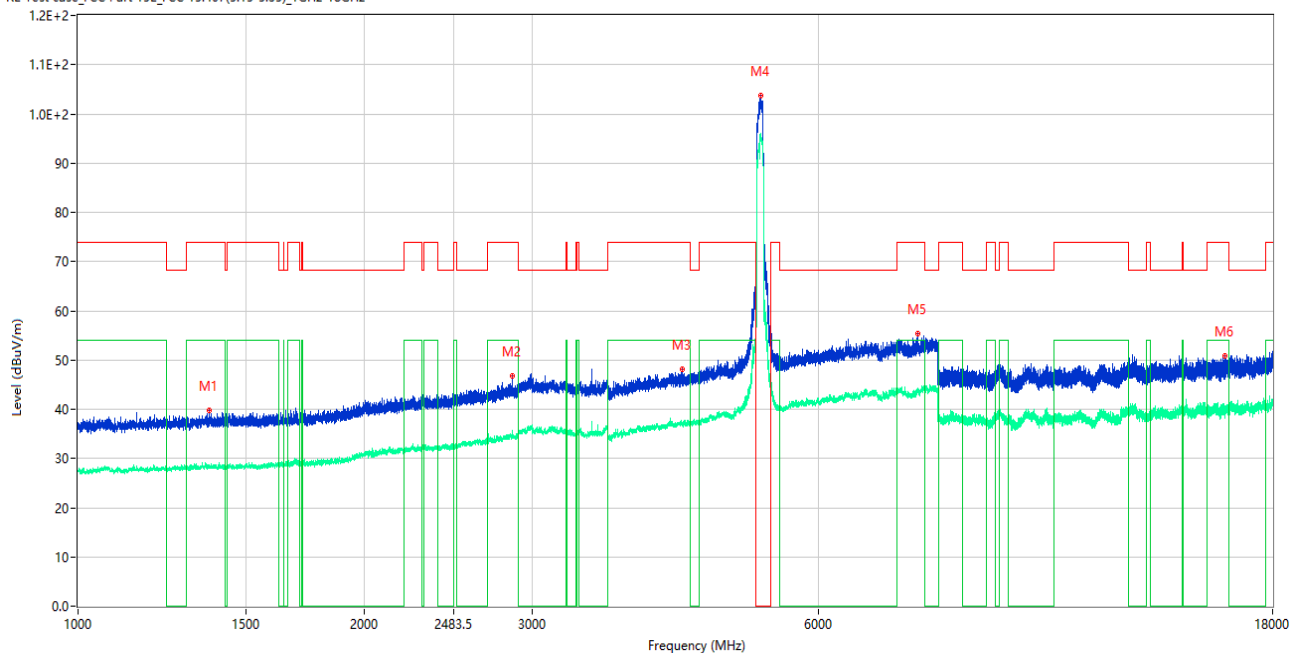
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1142.750	39.49	-15.34	74.0	34.51	Peak	212.00	150	Vertical	Pass
1**	1142.750	29.28	-15.34	54.0	24.72	AV	212.00	150	Vertical	Pass
2	1617.500	40.16	-15.23	74.0	33.84	Peak	231.00	150	Vertical	Pass
2**	1617.500	28.67	-15.23	54.0	25.33	AV	231.00	150	Vertical	Pass
3	2861.500	46.42	-7.55	74.0	27.58	Peak	197.00	150	Vertical	Pass
3**	2861.500	35.55	-7.55	54.0	18.45	AV	197.00	150	Vertical	Pass
4	5191.500	107.26	-1.06	--	121.74	Peak	229.00	150	Vertical	N/A
4**	5191.500	98.89	-1.06	--	-98.89	AV	229.00	150	Vertical	N/A
5	9305.300	49.20	-1.84	74.0	24.80	Peak	212.00	150	Vertical	Pass
5**	9305.300	39.42	-1.84	54.0	14.58	AV	212.00	150	Vertical	Pass
6	16056.974	50.65	1.83	74.0	23.35	Peak	325.00	150	Vertical	Pass
6**	16056.974	41.35	1.83	54.0	12.65	AV	325.00	150	Vertical	Pass

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

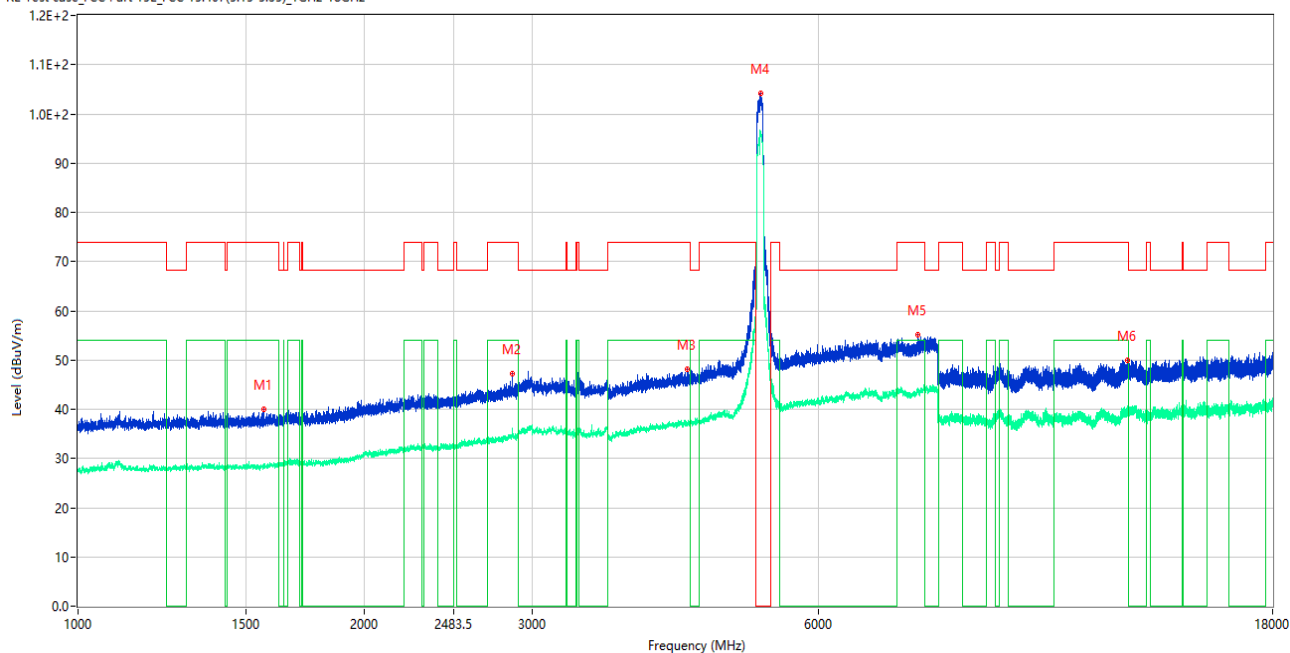
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.750	39.82	-15.58	74.0	34.18	Peak	20.00	150	Horizontal	Pass
1**	1373.750	28.11	-15.58	54.0	25.89	AV	20.00	150	Horizontal	Pass
2	2857.500	46.87	-7.55	74.0	27.13	Peak	157.00	150	Horizontal	Pass
2**	2857.500	34.59	-7.55	54.0	19.41	AV	157.00	150	Horizontal	Pass
3	4319.500	48.07	-2.91	74.0	25.93	Peak	150.00	150	Horizontal	Pass
3**	4319.500	36.71	-2.91	54.0	17.29	AV	150.00	150	Horizontal	Pass
4	5216.500	103.64	-0.93	--	119.36	Peak	223.00	150	Horizontal	N/A
4**	5216.500	95.02	-0.93	--	-95.02	AV	223.00	150	Horizontal	N/A
5	7635.500	55.43	2.98	74.0	18.57	Peak	223.00	150	Horizontal	Pass
5**	7635.500	43.58	2.98	54.0	10.42	AV	223.00	150	Horizontal	Pass
6	16052.513	50.75	1.67	74.0	23.25	Peak	187.00	150	Horizontal	Pass
6**	16052.513	40.29	1.67	54.0	13.71	AV	187.00	150	Horizontal	Pass

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

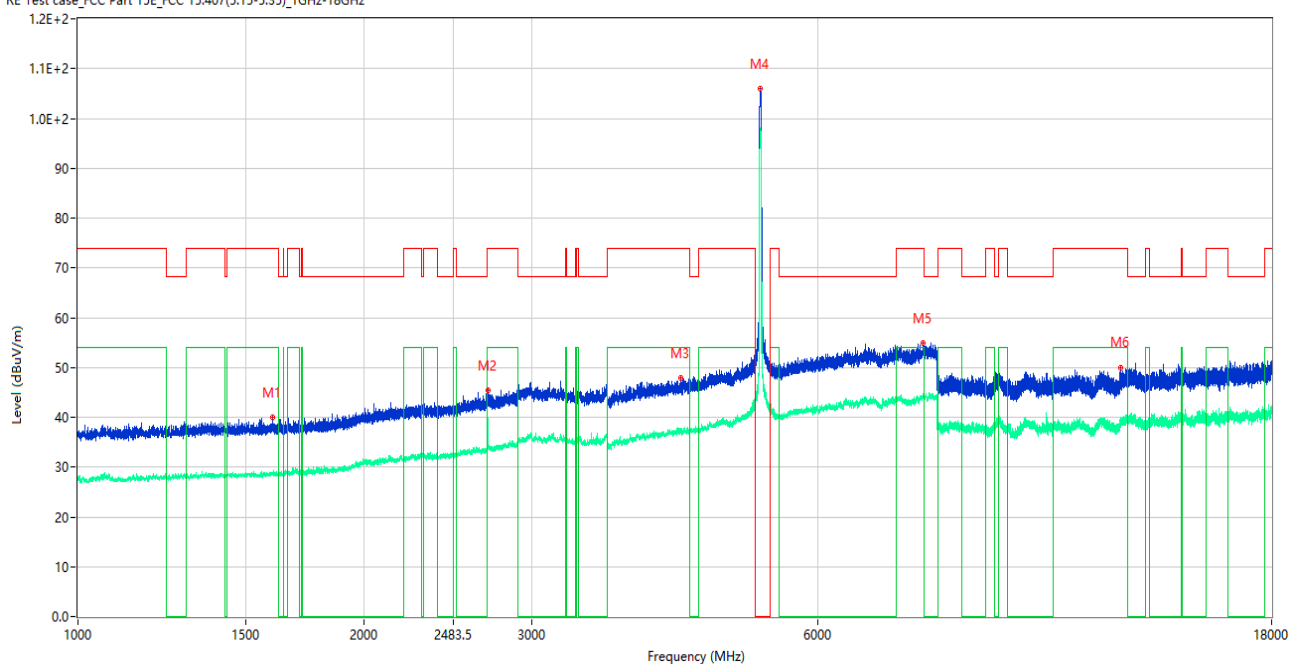
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1566.500	39.97	-15.17	74.0	34.03	Peak	179.00	150	Vertical	Pass
1**	1566.500	28.33	-15.17	54.0	25.67	AV	179.00	150	Vertical	Pass
2	2859.750	47.17	-7.60	74.0	26.83	Peak	193.00	150	Vertical	Pass
2**	2859.750	34.86	-7.60	54.0	19.14	AV	193.00	150	Vertical	Pass
3	4370.500	48.04	-2.61	74.0	25.96	Peak	359.00	150	Vertical	Pass
3**	4370.500	37.26	-2.61	54.0	16.74	AV	359.00	150	Vertical	Pass
4	5217.000	104.11	-0.92	--	117.89	Peak	222.00	150	Vertical	N/A
4**	5217.000	96.23	-0.92	--	-96.23	AV	222.00	150	Vertical	N/A
5	7622.000	55.09	2.78	74.0	18.91	Peak	71.00	150	Vertical	Pass
5**	7622.000	43.76	2.78	54.0	10.24	AV	71.00	150	Vertical	Pass
6	12679.700	49.98	-0.19	74.0	24.02	Peak	235.00	150	Vertical	Pass
6**	12679.700	39.59	-0.19	54.0	14.41	AV	235.00	150	Vertical	Pass

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

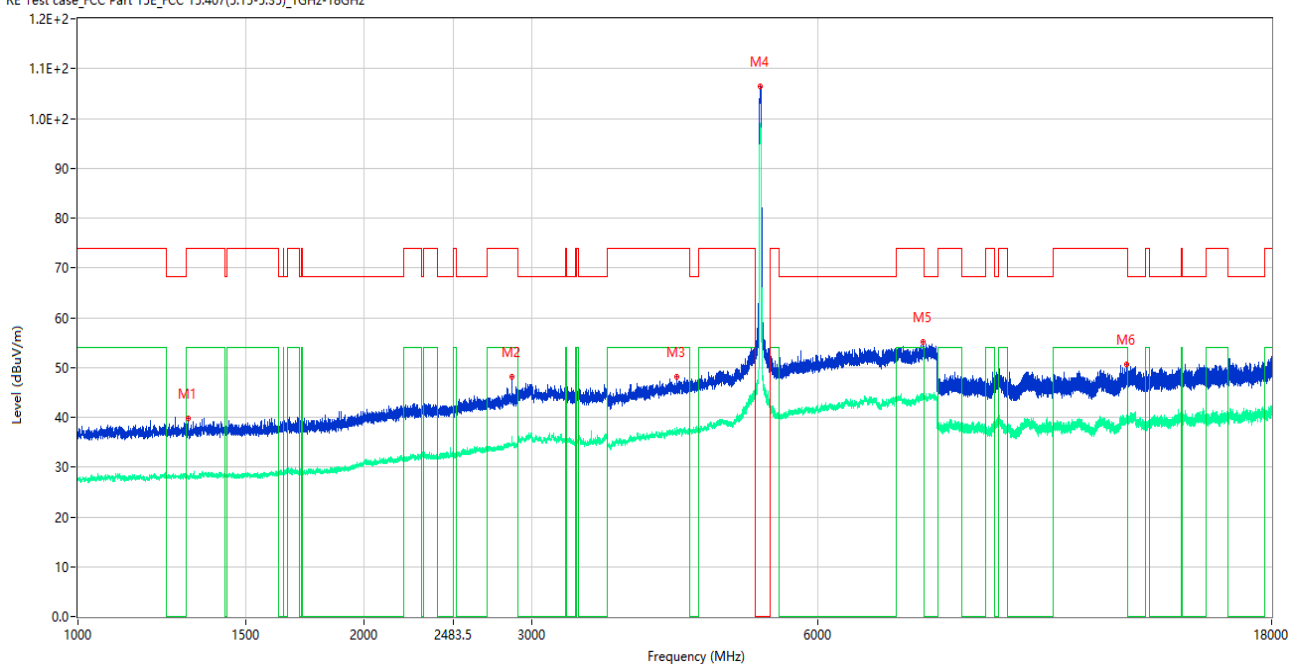
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1603.000	40.02	-15.26	74.0	33.98	Peak	348.00	150	Horizontal	Pass
1**	1603.000	28.57	-15.26	54.0	25.43	AV	348.00	150	Horizontal	Pass
2	2700.000	45.46	-9.22	74.0	28.54	Peak	239.00	150	Horizontal	Pass
2**	2700.000	38.91	-9.22	54.0	15.09	AV	239.00	150	Horizontal	Pass
3	4301.500	47.96	-2.80	74.0	26.04	Peak	161.00	150	Horizontal	Pass
3**	4301.500	37.21	-2.80	54.0	16.79	AV	161.00	150	Horizontal	Pass
4	5218.500	106.06	-0.91	--	112.94	Peak	219.00	150	Horizontal	N/A
4**	5218.500	97.59	-0.91	--	-97.59	AV	219.00	150	Horizontal	N/A
5	7733.000	54.84	3.20	74.0	19.16	Peak	289.00	150	Horizontal	Pass
5**	7733.000	43.99	3.20	54.0	10.01	AV	289.00	150	Horizontal	Pass
6	12493.263	50.01	0.15	74.0	23.99	Peak	70.00	150	Horizontal	Pass
6**	12493.263	40.08	0.15	54.0	13.92	AV	70.00	150	Horizontal	Pass

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

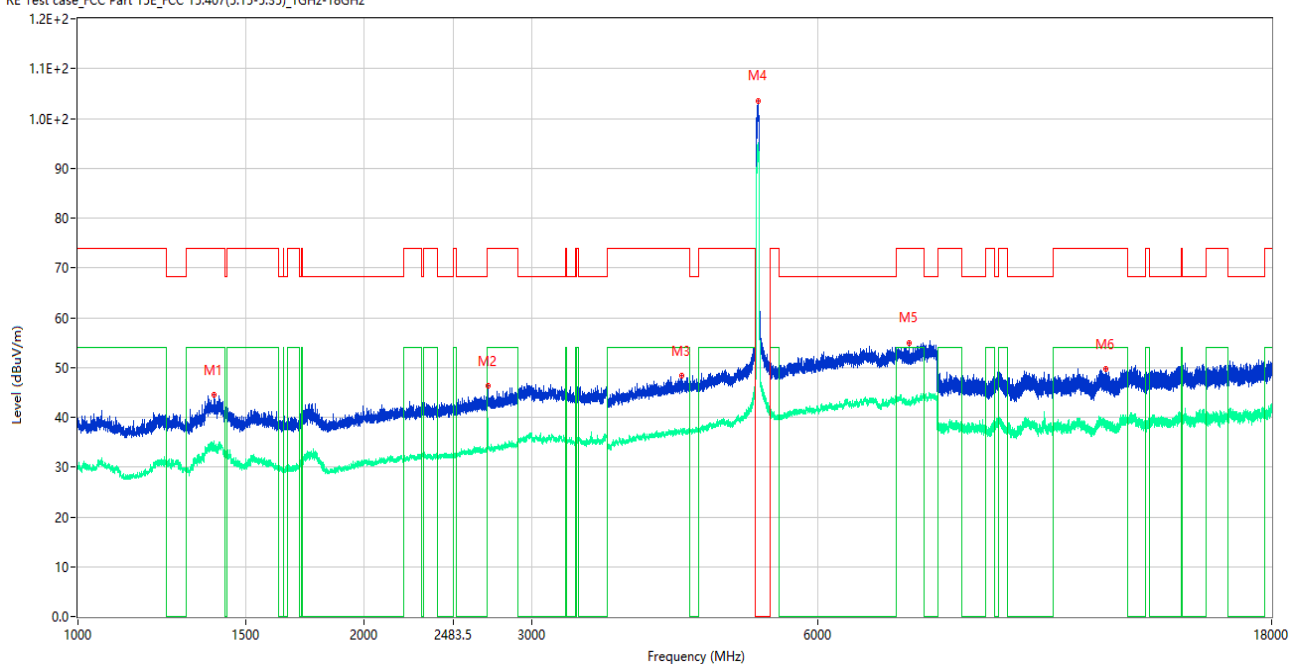
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1305.250	39.87	-15.44	74.0	34.13	Peak	264.00	150	Vertical	Pass
1**	1305.250	27.94	-15.44	54.0	26.06	AV	264.00	150	Vertical	Pass
2	2861.000	48.16	-7.55	74.0	25.84	Peak	193.00	150	Vertical	Pass
2**	2861.000	35.31	-7.55	54.0	18.69	AV	193.00	150	Vertical	Pass
3	4267.500	48.07	-2.60	74.0	25.93	Peak	0.00	150	Vertical	Pass
3**	4267.500	37.06	-2.60	54.0	16.94	AV	0.00	150	Vertical	Pass
4	5218.000	106.35	-0.92	--	114.65	Peak	221.00	150	Vertical	N/A
4**	5218.000	98.19	-0.92	--	-98.19	AV	221.00	150	Vertical	N/A
5	7734.500	55.07	3.22	74.0	18.93	Peak	112.00	150	Vertical	Pass
5**	7734.500	44.60	3.22	54.0	9.40	AV	112.00	150	Vertical	Pass
6	12671.150	50.59	-0.31	74.0	23.41	Peak	115.00	150	Vertical	Pass
6**	12671.150	39.65	-0.31	54.0	14.35	AV	115.00	150	Vertical	Pass

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

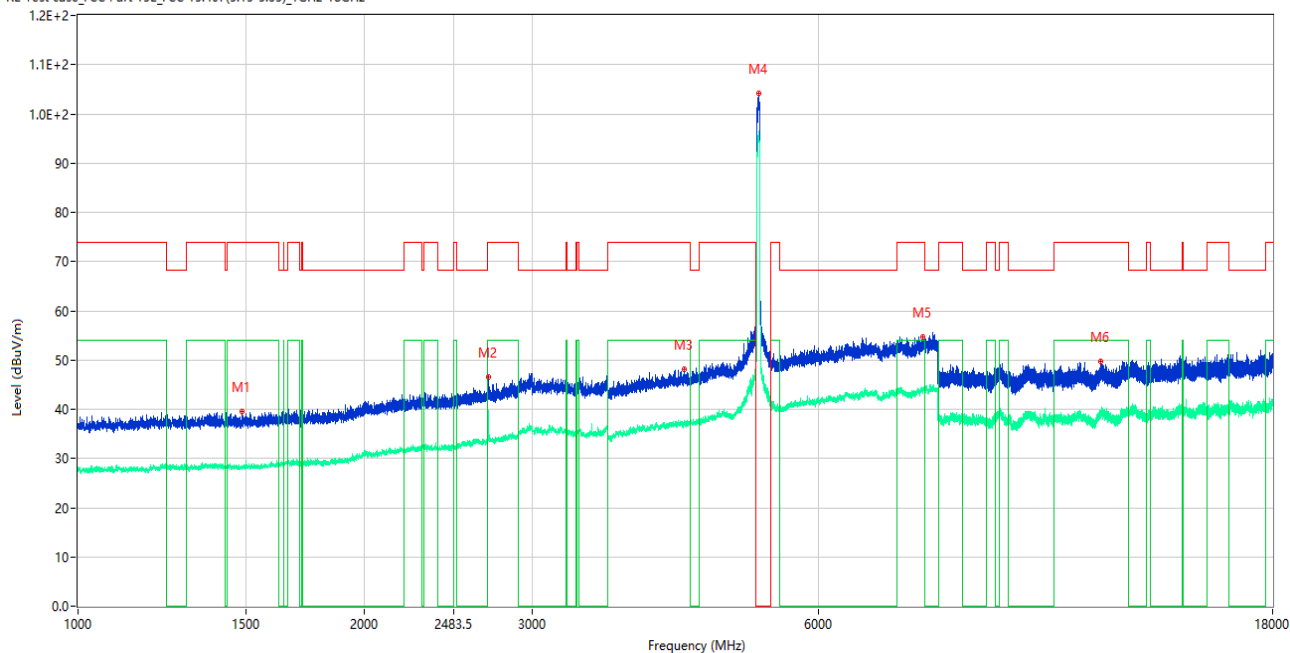
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1390.750	44.51	-15.49	74.0	29.49	Peak	90.00	150	Horizontal	Pass
1**	1390.750	33.84	-15.49	54.0	20.16	AV	90.00	150	Horizontal	Pass
2	2700.250	46.26	-9.22	74.0	27.74	Peak	272.00	150	Horizontal	Pass
2**	2700.250	39.84	-9.22	54.0	14.16	AV	272.00	150	Horizontal	Pass
3	4310.000	48.38	-2.72	74.0	25.62	Peak	356.00	150	Horizontal	Pass
3**	4310.000	37.29	-2.72	54.0	16.71	AV	356.00	150	Horizontal	Pass
4	5192.500	103.60	-1.10	--	138.40	Peak	242.00	150	Horizontal	N/A
4**	5192.500	95.22	-1.10	--	-95.22	AV	242.00	150	Horizontal	N/A
5	7474.500	54.98	2.46	74.0	19.02	Peak	360.00	150	Horizontal	Pass
5**	7474.500	42.79	2.46	54.0	11.21	AV	360.00	150	Horizontal	Pass
6	12039.875	49.75	-1.27	74.0	24.25	Peak	0.00	150	Horizontal	Pass
6**	12039.875	38.20	-1.27	54.0	15.80	AV	0.00	150	Horizontal	Pass

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

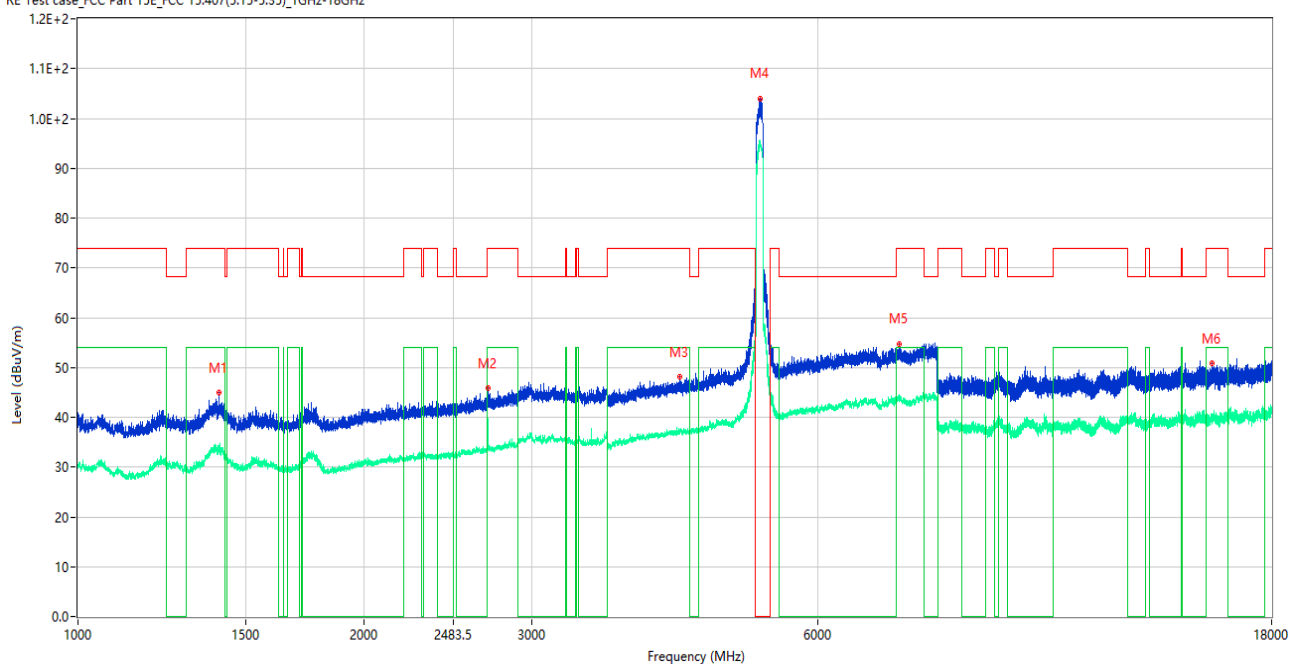
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1487.750	39.61	-15.55	74.0	34.39	Peak	18.00	150	Vertical	Pass
1**	1487.750	27.96	-15.55	54.0	26.04	AV	18.00	150	Vertical	Pass
2	2700.250	46.53	-9.22	74.0	27.47	Peak	318.00	150	Vertical	Pass
2**	2700.250	39.67	-9.22	54.0	14.33	AV	318.00	150	Vertical	Pass
3	4339.500	48.04	-2.30	74.0	25.96	Peak	360.00	150	Vertical	Pass
3**	4339.500	37.77	-2.30	54.0	16.23	AV	360.00	150	Vertical	Pass
4	5187.000	104.20	-1.01	--	147.80	Peak	252.00	150	Vertical	N/A
4**	5187.000	95.40	-1.01	--	-95.40	AV	252.00	150	Vertical	N/A
5	7724.000	54.74	3.05	74.0	19.26	Peak	342.00	150	Vertical	Pass
5**	7724.000	43.73	3.05	54.0	10.27	AV	342.00	150	Vertical	Pass
6	11869.112	49.78	-0.65	74.0	24.22	Peak	45.00	150	Vertical	Pass
6**	11869.112	38.81	-0.65	54.0	15.19	AV	45.00	150	Vertical	Pass

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

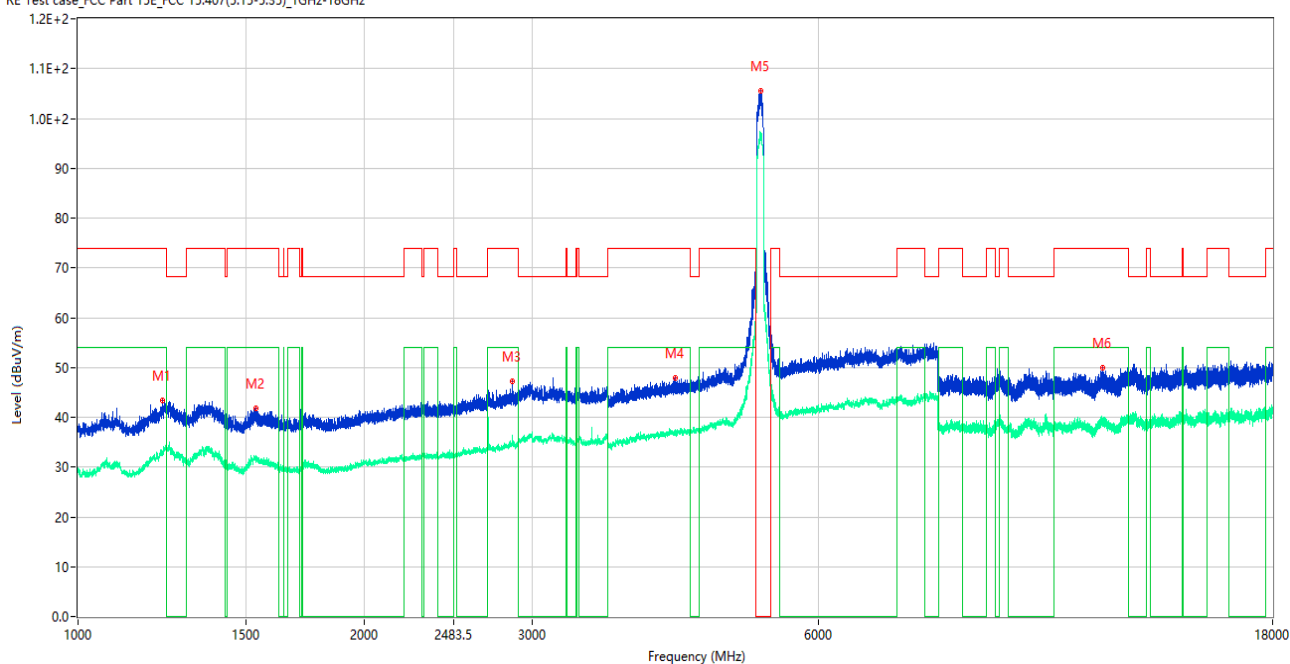
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1406.750	44.93	-15.36	74.0	29.07	Peak	205.00	150	Horizontal	Pass
1**	1406.750	33.72	-15.36	54.0	20.28	AV	205.00	150	Horizontal	Pass
2	2699.750	45.98	-9.20	74.0	28.02	Peak	264.00	150	Horizontal	Pass
2**	2699.750	37.69	-9.20	54.0	16.31	AV	264.00	150	Horizontal	Pass
3	4289.500	48.06	-3.12	74.0	25.94	Peak	0.00	150	Horizontal	Pass
3**	4289.500	36.99	-3.12	54.0	17.01	AV	0.00	150	Horizontal	Pass
4	5214.000	104.07	-0.94	--	142.93	Peak	247.00	150	Horizontal	N/A
4**	5214.000	95.13	-0.94	--	-95.13	AV	247.00	150	Horizontal	N/A
5	7300.000	54.77	2.79	74.0	19.23	Peak	178.00	150	Horizontal	Pass
5**	7300.000	43.95	2.79	54.0	10.05	AV	178.00	150	Horizontal	Pass
6	15569.512	50.76	0.24	74.0	23.24	Peak	360.00	150	Horizontal	Pass
6**	15569.512	39.78	0.24	54.0	14.22	AV	360.00	150	Horizontal	Pass

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

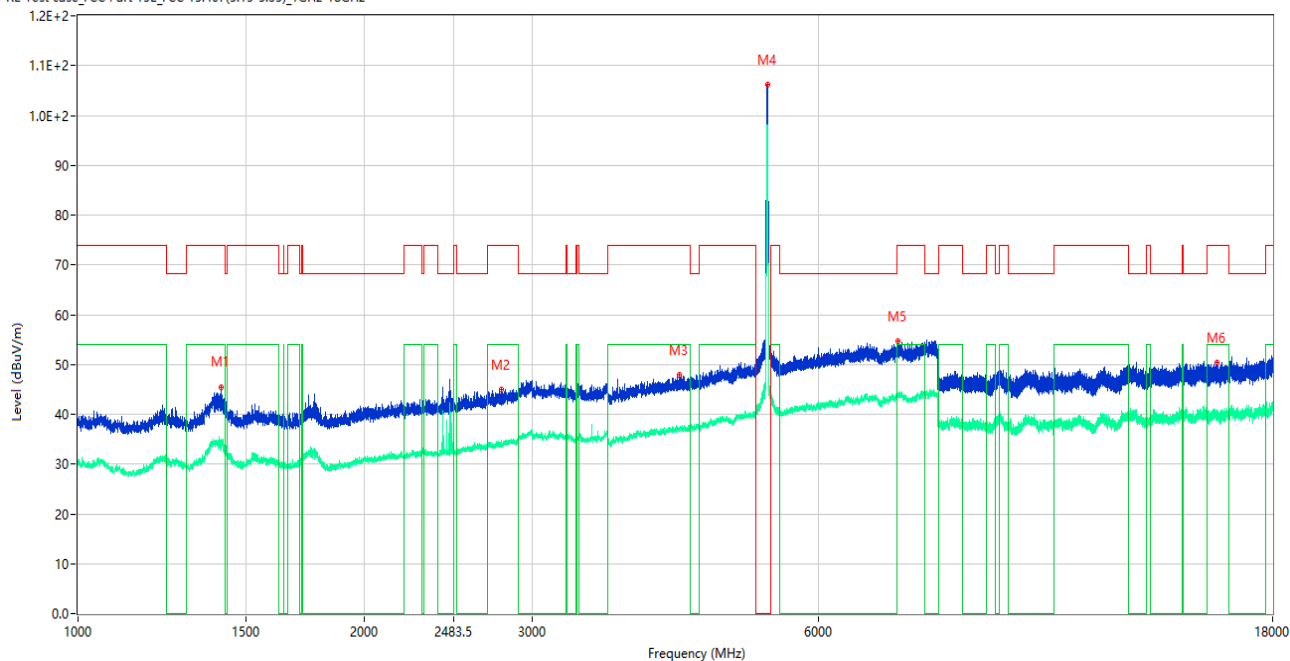
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1225.750	43.43	-15.60	74.0	30.57	Peak	132.00	150	Vertical	Pass
1**	1225.750	32.43	-15.60	54.0	21.57	AV	132.00	150	Vertical	Pass
2	1537.750	41.76	-15.43	74.0	32.24	Peak	137.00	150	Vertical	Pass
2**	1537.750	31.42	-15.43	54.0	22.58	AV	137.00	150	Vertical	Pass
3	2860.500	47.30	-7.56	74.0	26.70	Peak	192.00	150	Vertical	Pass
3**	2860.500	35.94	-7.56	54.0	18.06	AV	192.00	150	Vertical	Pass
4	4240.000	47.82	-2.47	74.0	26.18	Peak	4.00	150	Vertical	Pass
4**	4240.000	36.76	-2.47	54.0	17.24	AV	4.00	150	Vertical	Pass
5	5213.000	105.44	-0.96	--	123.56	Peak	229.00	150	Vertical	N/A
5**	5213.000	96.85	-0.96	--	-96.85	AV	229.00	150	Vertical	N/A
6	11931.575	49.98	-1.08	74.0	24.02	Peak	359.00	150	Vertical	Pass
6**	11931.575	39.11	-1.08	54.0	14.89	AV	359.00	150	Vertical	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

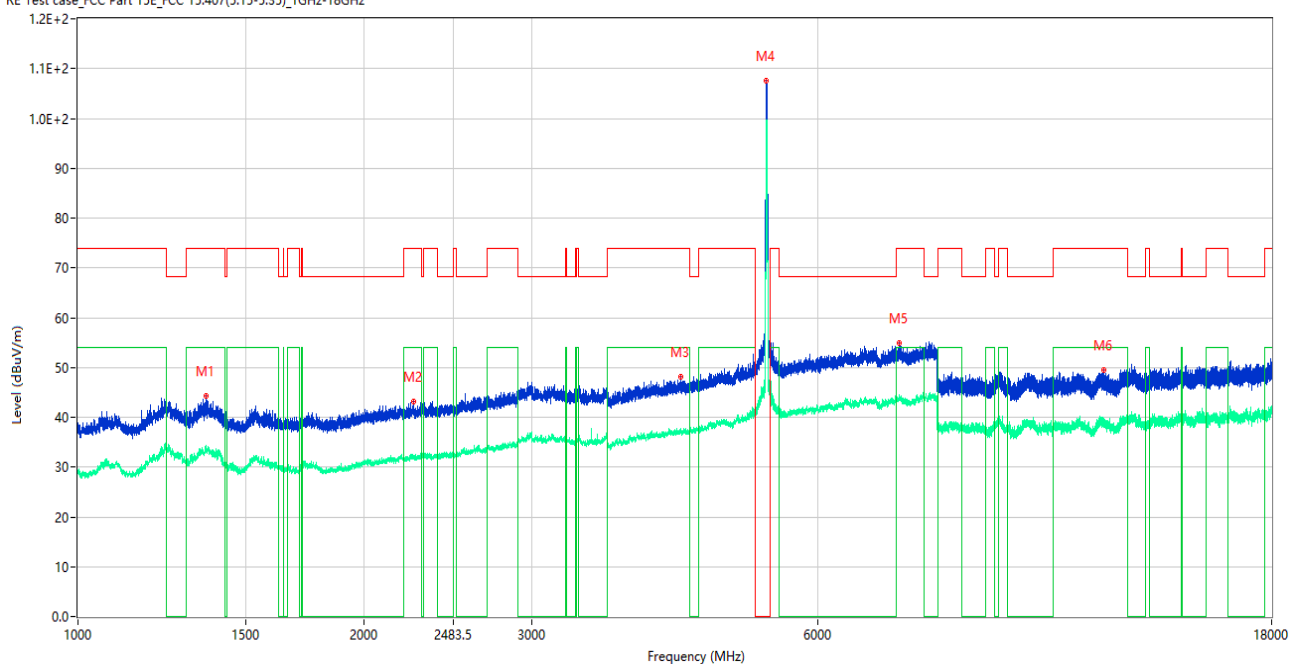
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1414.250	45.52	-15.34	74.0	28.48	Peak	204.00	150	Horizontal	Pass
1**	1414.250	33.99	-15.34	54.0	20.01	AV	204.00	150	Horizontal	Pass
2	2784.500	44.99	-8.02	74.0	29.01	Peak	172.00	150	Horizontal	Pass
2**	2784.500	34.72	-8.02	54.0	19.28	AV	172.00	150	Horizontal	Pass
3	4287.000	47.96	-3.01	74.0	26.04	Peak	7.00	150	Horizontal	Pass
3**	4287.000	36.66	-3.01	54.0	17.34	AV	7.00	150	Horizontal	Pass
4	5301.500	106.26	-0.62	--	112.74	Peak	219.00	150	Horizontal	N/A
4**	5301.500	98.11	-0.62	--	-98.11	AV	219.00	150	Horizontal	N/A
5	7275.500	54.79	2.55	74.0	19.21	Peak	7.00	150	Horizontal	Pass
5**	7275.500	44.30	2.55	54.0	9.70	AV	7.00	150	Horizontal	Pass
6	15732.263	50.49	0.97	74.0	23.51	Peak	34.00	150	Horizontal	Pass
6**	15732.263	39.57	0.97	54.0	14.43	AV	34.00	150	Horizontal	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

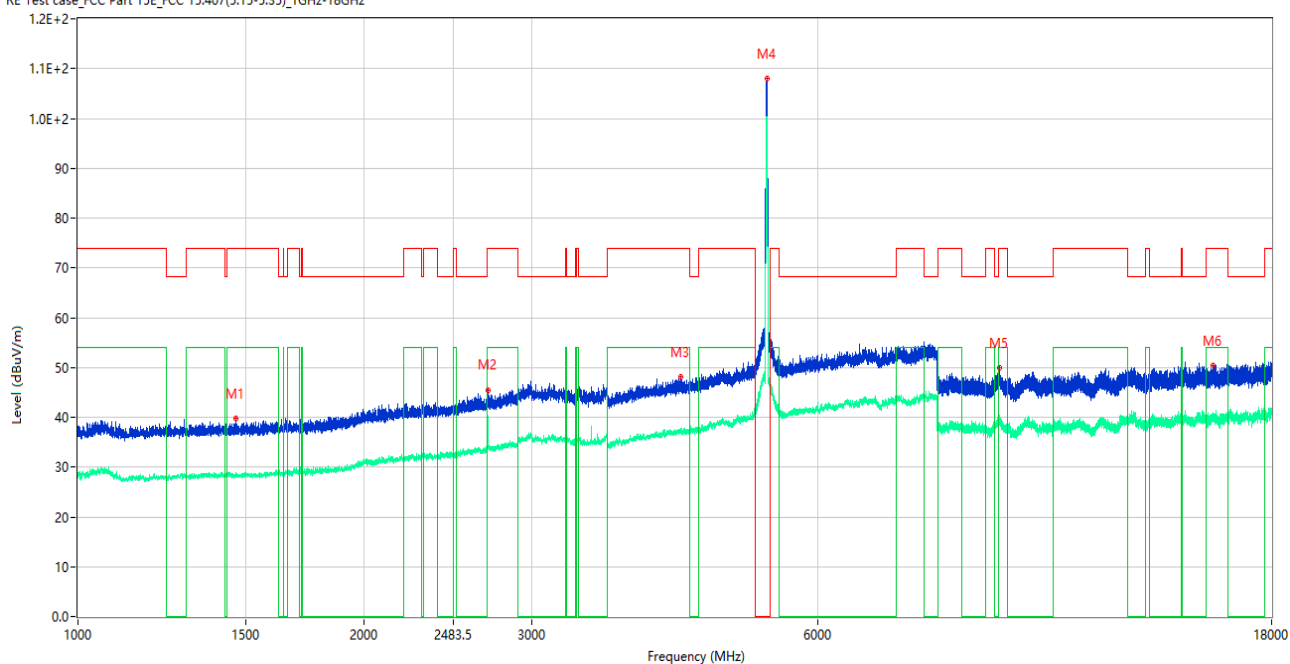
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1364.000	44.40	-15.44	74.0	29.60	Peak	127.00	150	Vertical	Pass
1**	1364.000	33.30	-15.44	54.0	20.70	AV	127.00	150	Vertical	Pass
2	2252.750	43.15	-11.45	74.0	30.85	Peak	0.00	150	Vertical	Pass
2**	2252.750	32.36	-11.45	54.0	21.64	AV	0.00	150	Vertical	Pass
3	4309.000	48.11	-2.71	74.0	25.89	Peak	40.00	150	Vertical	Pass
3**	4309.000	37.30	-2.71	54.0	16.70	AV	40.00	150	Vertical	Pass
4	5297.000	107.60	-0.51	--	103.40	Peak	211.00	150	Vertical	N/A
4**	5297.000	98.59	-0.51	--	-98.59	AV	211.00	150	Vertical	N/A
5	7298.500	54.86	2.76	74.0	19.14	Peak	161.00	150	Vertical	Pass
5**	7298.500	43.54	2.76	54.0	10.46	AV	161.00	150	Vertical	Pass
6	11975.276	49.46	-0.94	74.0	24.54	Peak	218.00	150	Vertical	Pass
6**	11975.276	39.12	-0.94	54.0	14.88	AV	218.00	150	Vertical	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

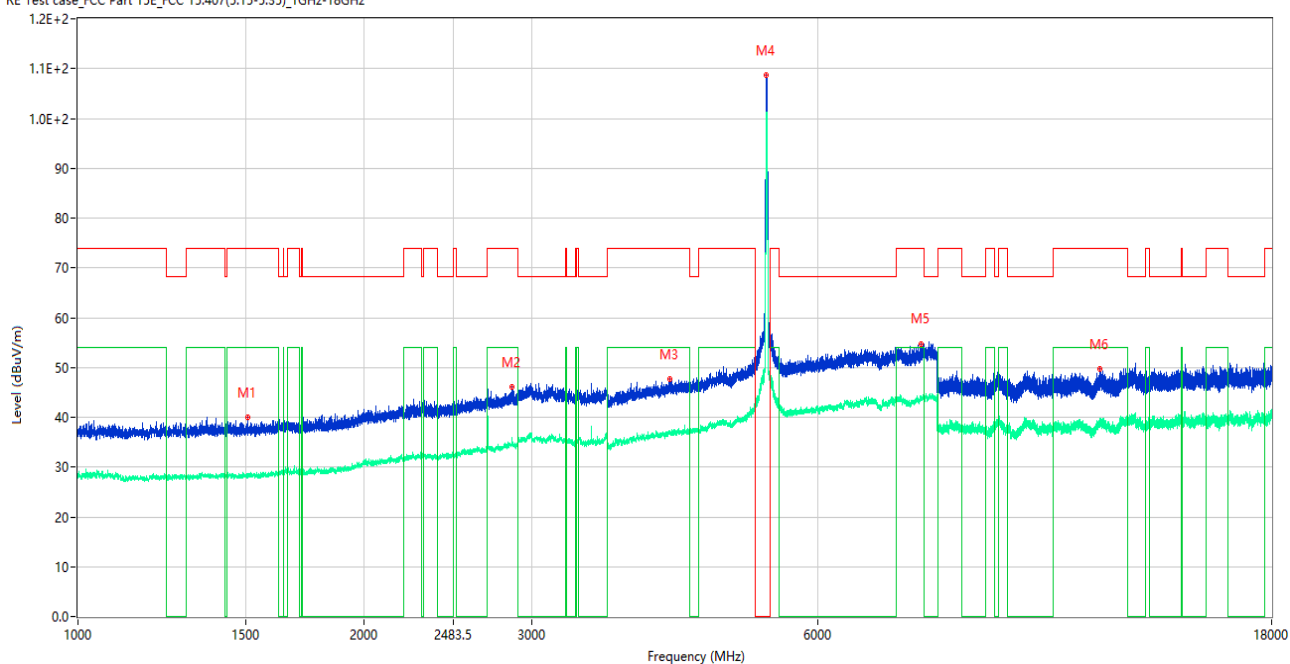
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1466.000	39.73	-15.48	74.0	34.27	Peak	20.00	150	Horizontal	Pass
1**	1466.000	28.21	-15.48	54.0	25.79	AV	20.00	150	Horizontal	Pass
2	2700.250	45.53	-9.22	74.0	28.47	Peak	266.00	150	Horizontal	Pass
2**	2700.250	40.14	-9.22	54.0	13.86	AV	266.00	150	Horizontal	Pass
3	4309.000	48.19	-2.71	74.0	25.81	Peak	2.00	150	Horizontal	Pass
3**	4309.000	37.19	-2.71	54.0	16.81	AV	2.00	150	Horizontal	Pass
4	5301.000	108.00	-0.61	--	115.00	Peak	223.00	150	Horizontal	N/A
4**	5301.000	99.53	-0.61	--	-99.53	AV	223.00	150	Horizontal	N/A
5	9305.538	50.01	-1.83	74.0	23.99	Peak	76.00	150	Horizontal	Pass
5**	9305.538	39.73	-1.83	54.0	14.27	AV	76.00	150	Horizontal	Pass
6	15622.799	50.37	1.12	74.0	23.63	Peak	360.00	150	Horizontal	Pass
6**	15622.799	39.78	1.12	54.0	14.22	AV	360.00	150	Horizontal	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

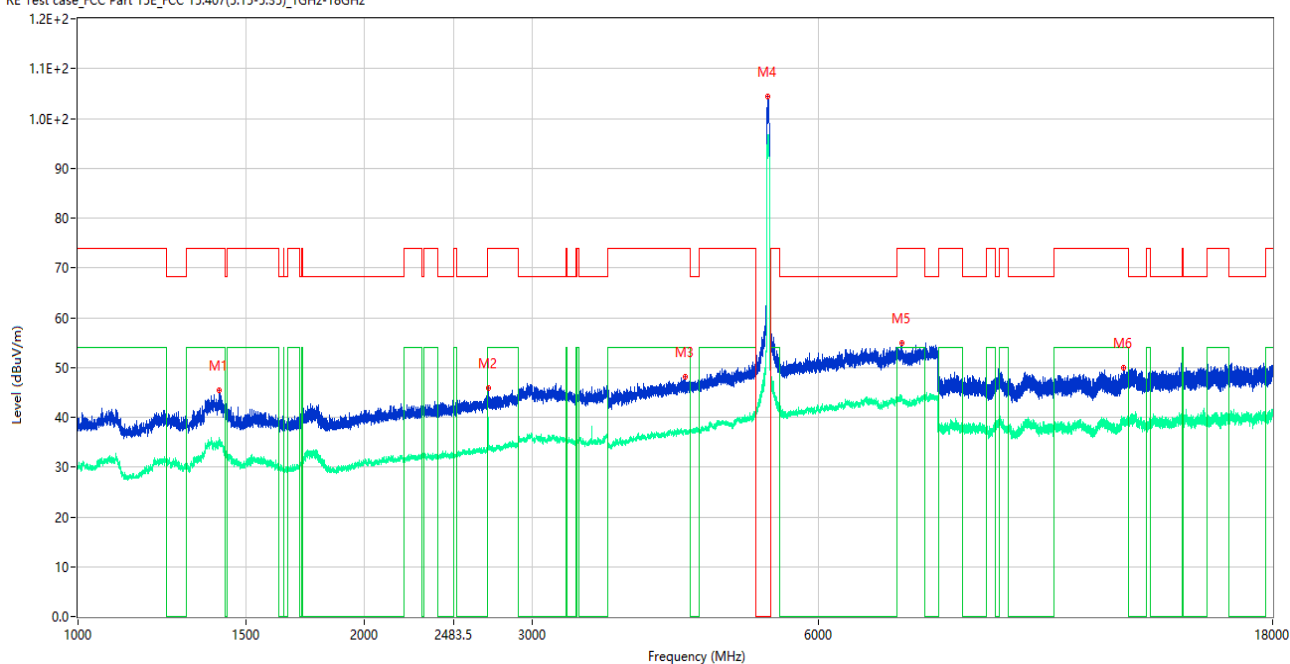
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1507.750	40.06	-15.26	74.0	33.94	Peak	248.00	150	Vertical	Pass
1**	1507.750	28.24	-15.26	54.0	25.76	AV	248.00	150	Vertical	Pass
2	2859.000	46.10	-7.62	74.0	27.90	Peak	239.00	150	Vertical	Pass
2**	2859.000	35.51	-7.62	54.0	18.49	AV	239.00	150	Vertical	Pass
3	4196.500	47.67	-2.58	74.0	26.33	Peak	32.00	150	Vertical	Pass
3**	4196.500	36.62	-2.58	54.0	17.38	AV	32.00	150	Vertical	Pass
4	5296.500	108.72	-0.50	--	102.28	Peak	211.00	150	Vertical	N/A
4**	5296.500	100.37	-0.50	--	-100.37	AV	211.00	150	Vertical	N/A
5	7709.000	54.58	3.64	74.0	19.42	Peak	59.00	150	Vertical	Pass
5**	7709.000	43.39	3.64	54.0	10.61	AV	59.00	150	Vertical	Pass
6	11866.974	49.68	-0.71	74.0	24.32	Peak	0.00	150	Vertical	Pass
6**	11866.974	38.87	-0.71	54.0	15.13	AV	0.00	150	Vertical	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

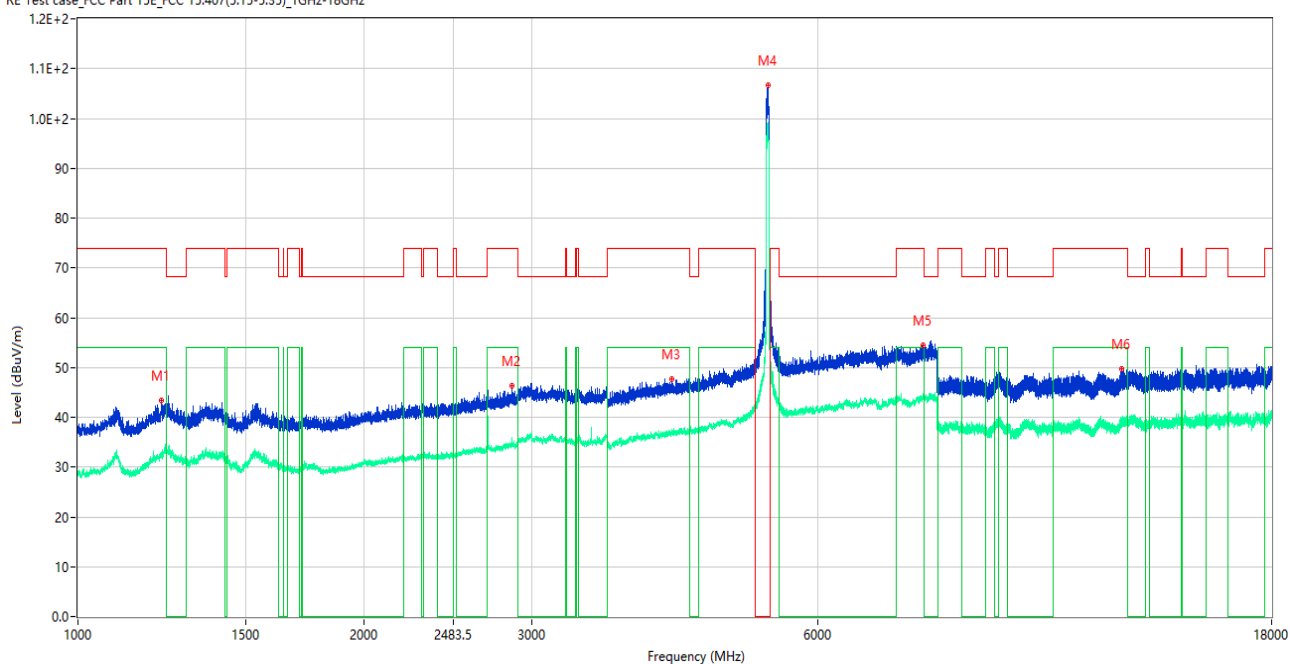
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1405.500	45.40	-15.42	74.0	28.60	Peak	86.00	150	Horizontal	Pass
1**	1405.500	34.34	-15.42	54.0	19.66	AV	86.00	150	Horizontal	Pass
2	2699.750	45.96	-9.20	74.0	28.04	Peak	266.00	150	Horizontal	Pass
2**	2699.750	38.00	-9.20	54.0	16.00	AV	266.00	150	Horizontal	Pass
3	4346.500	48.03	-2.39	74.0	25.97	Peak	229.00	150	Horizontal	Pass
3**	4346.500	37.61	-2.39	54.0	16.39	AV	229.00	150	Horizontal	Pass
4	5312.000	104.39	-0.51	--	124.61	Peak	229.00	150	Horizontal	N/A
4**	5312.000	96.77	-0.51	--	-96.77	AV	229.00	150	Horizontal	N/A
5	7340.000	54.97	3.22	74.0	19.03	Peak	0.00	150	Horizontal	Pass
5**	7340.000	43.77	3.22	54.0	10.23	AV	0.00	150	Horizontal	Pass
6	12546.463	50.03	-0.05	74.0	23.97	Peak	41.00	150	Horizontal	Pass
6**	12546.463	39.41	-0.05	54.0	14.59	AV	41.00	150	Horizontal	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

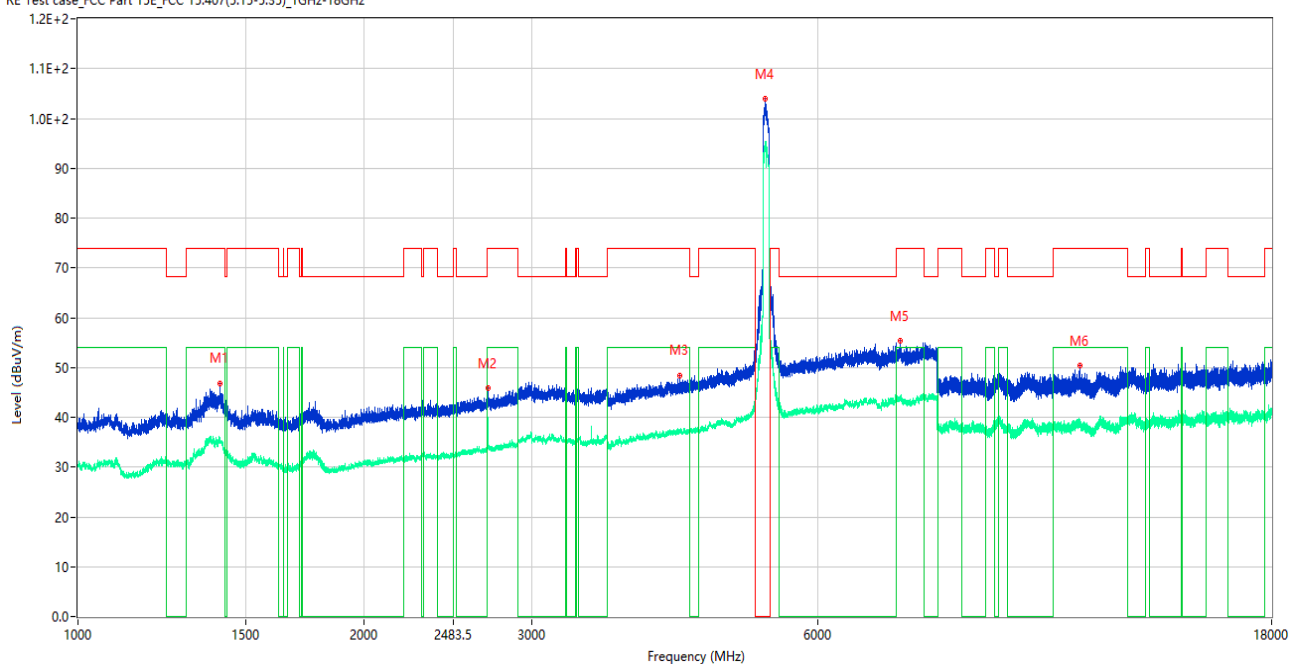
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1223.750	43.29	-15.64	74.0	30.71	Peak	146.00	150	Vertical	Pass
1**	1223.750	32.22	-15.64	54.0	21.78	AV	146.00	150	Vertical	Pass
2	2860.000	46.44	-7.58	74.0	27.56	Peak	239.00	150	Vertical	Pass
2**	2860.000	35.19	-7.58	54.0	18.81	AV	239.00	150	Vertical	Pass
3	4214.500	47.72	-2.59	74.0	26.28	Peak	240.00	150	Vertical	Pass
3**	4214.500	36.86	-2.59	54.0	17.14	AV	240.00	150	Vertical	Pass
4	5313.000	106.71	-0.48	--	102.29	Peak	209.00	150	Vertical	N/A
4**	5313.000	99.11	-0.48	--	-99.11	AV	209.00	150	Vertical	N/A
5	7732.500	54.37	3.20	74.0	19.63	Peak	0.00	150	Vertical	Pass
5**	7732.500	44.35	3.20	54.0	9.65	AV	0.00	150	Vertical	Pass
6	12515.112	49.78	-0.38	74.0	24.22	Peak	355.00	150	Vertical	Pass
6**	12515.112	38.79	-0.38	54.0	15.21	AV	355.00	150	Vertical	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

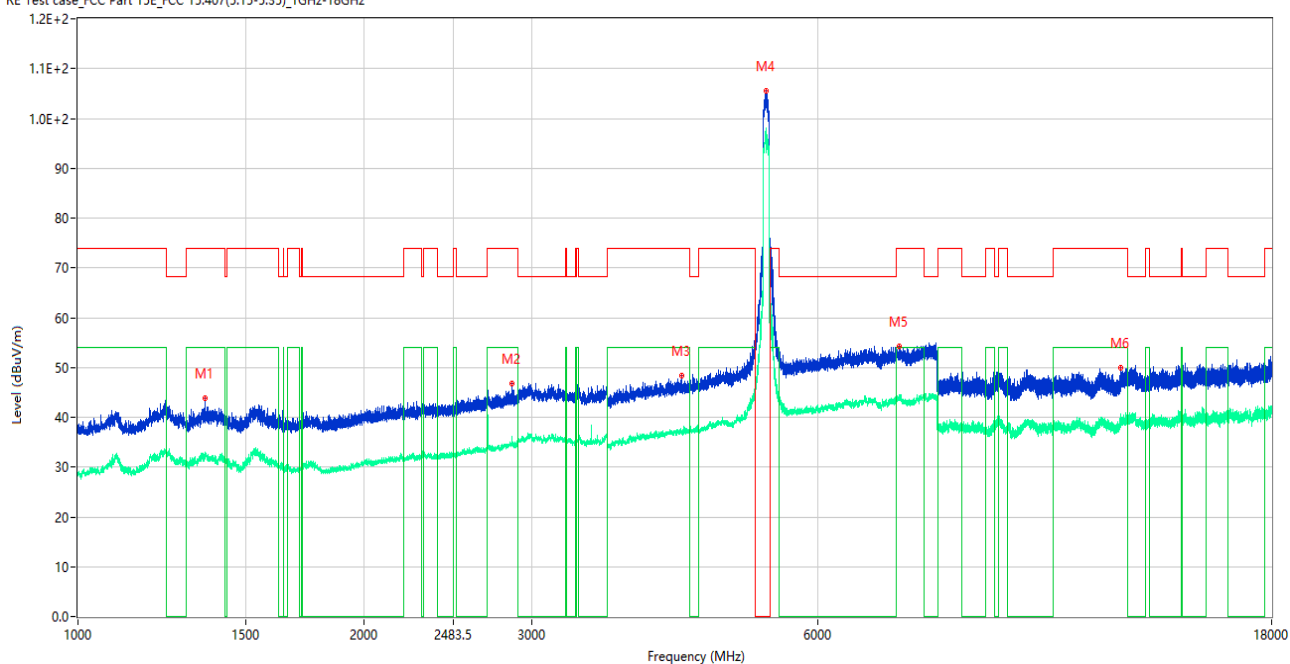
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1410.000	46.87	-15.38	74.0	27.13	Peak	82.00	150	Horizontal	Pass
1**	1410.000	35.41	-15.38	54.0	18.59	AV	82.00	150	Horizontal	Pass
2	2699.750	45.83	-9.20	74.0	28.17	Peak	265.00	150	Horizontal	Pass
2**	2699.750	38.20	-9.20	54.0	15.80	AV	265.00	150	Horizontal	Pass
3	4297.500	48.37	-2.95	74.0	25.63	Peak	278.00	150	Horizontal	Pass
3**	4297.500	37.21	-2.95	54.0	16.79	AV	278.00	150	Horizontal	Pass
4	5283.000	104.03	-0.76	--	124.97	Peak	229.00	150	Horizontal	N/A
4**	5283.000	93.99	-0.76	--	-93.99	AV	229.00	150	Horizontal	N/A
5	7330.500	55.38	2.76	74.0	18.62	Peak	41.00	150	Horizontal	Pass
5**	7330.500	43.73	2.76	54.0	10.27	AV	41.00	150	Horizontal	Pass
6	11315.738	50.34	-1.44	74.0	23.66	Peak	284.00	150	Horizontal	Pass
6**	11315.738	38.41	-1.44	54.0	15.59	AV	284.00	150	Horizontal	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

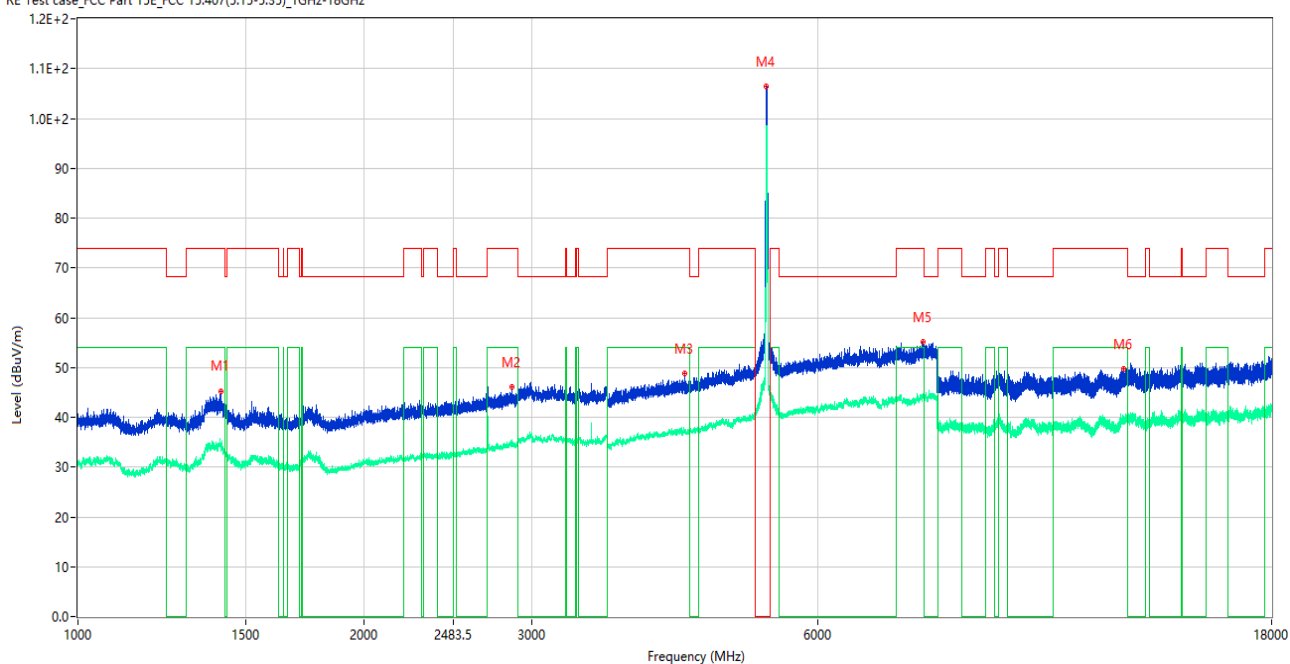
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1359.500	43.90	-15.34	74.0	30.10	Peak	136.00	150	Vertical	Pass
1**	1359.500	32.50	-15.34	54.0	21.50	AV	136.00	150	Vertical	Pass
2	2859.750	46.86	-7.60	74.0	27.14	Peak	197.00	150	Vertical	Pass
2**	2859.750	35.25	-7.60	54.0	18.75	AV	197.00	150	Vertical	Pass
3	4315.000	48.26	-2.89	74.0	25.74	Peak	338.00	150	Vertical	Pass
3**	4315.000	36.82	-2.89	54.0	17.18	AV	338.00	150	Vertical	Pass
4	5296.500	105.62	-0.50	--	101.38	Peak	207.00	150	Vertical	N/A
4**	5296.500	96.19	-0.50	--	-96.19	AV	207.00	150	Vertical	N/A
5	7301.500	54.32	2.77	74.0	19.68	Peak	277.00	150	Vertical	Pass
5**	7301.500	44.05	2.77	54.0	9.95	AV	277.00	150	Vertical	Pass
6	12497.537	49.92	0.20	74.0	24.08	Peak	6.00	150	Vertical	Pass
6**	12497.537	39.91	0.20	54.0	14.09	AV	6.00	150	Vertical	Pass

11ax20 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

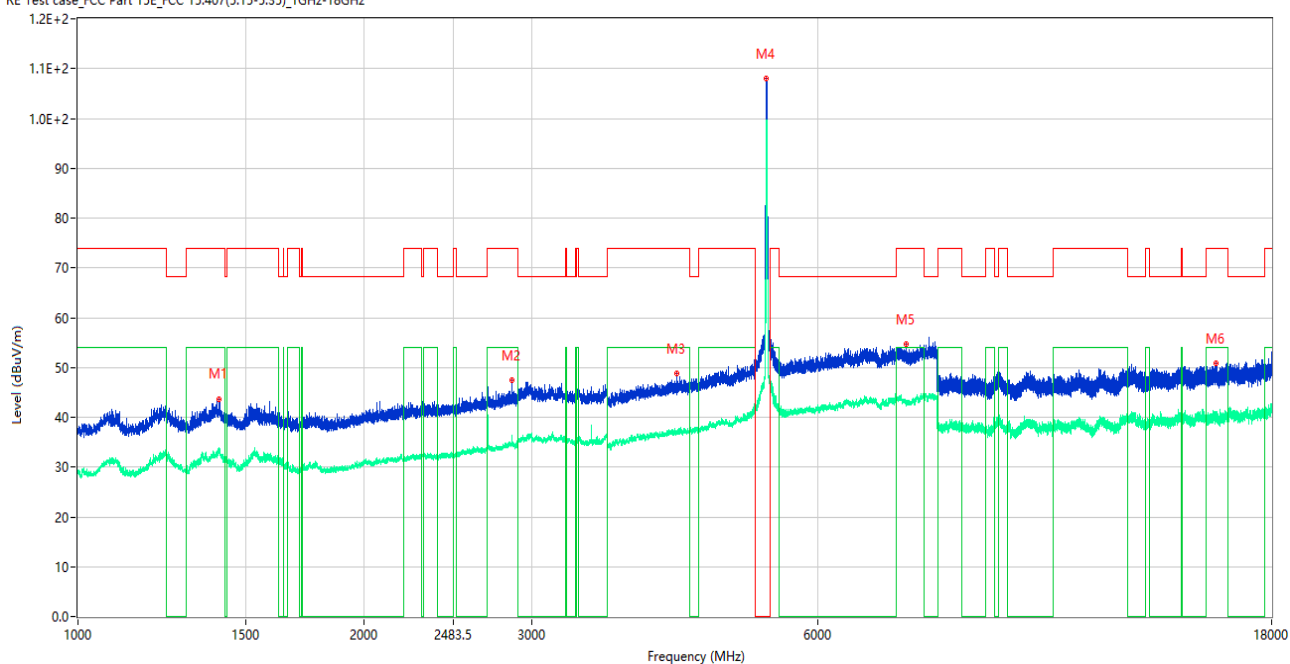
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1415.000	45.31	-15.36	74.0	28.69	Peak	156.00	150	Horizontal	Pass
1**	1415.000	33.60	-15.36	54.0	20.40	AV	156.00	150	Horizontal	Pass
2	2858.500	46.16	-7.62	74.0	27.84	Peak	160.00	150	Horizontal	Pass
2**	2858.500	34.16	-7.62	54.0	19.84	AV	160.00	150	Horizontal	Pass
3	4350.000	48.73	-2.61	74.0	25.27	Peak	59.00	150	Horizontal	Pass
3**	4350.000	37.36	-2.61	54.0	16.64	AV	59.00	150	Horizontal	Pass
4	5298.500	106.43	-0.53	--	121.57	Peak	228.00	150	Horizontal	N/A
4**	5298.500	98.51	-0.53	--	-98.51	AV	228.00	150	Horizontal	N/A
5	7734.500	55.04	3.22	74.0	18.96	Peak	288.00	150	Horizontal	Pass
5**	7734.500	44.35	3.22	54.0	9.65	AV	288.00	150	Horizontal	Pass
6	12588.500	49.61	-0.14	74.0	24.39	Peak	0.00	150	Horizontal	Pass
6**	12588.500	39.30	-0.14	54.0	14.70	AV	0.00	150	Horizontal	Pass

11ax20 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

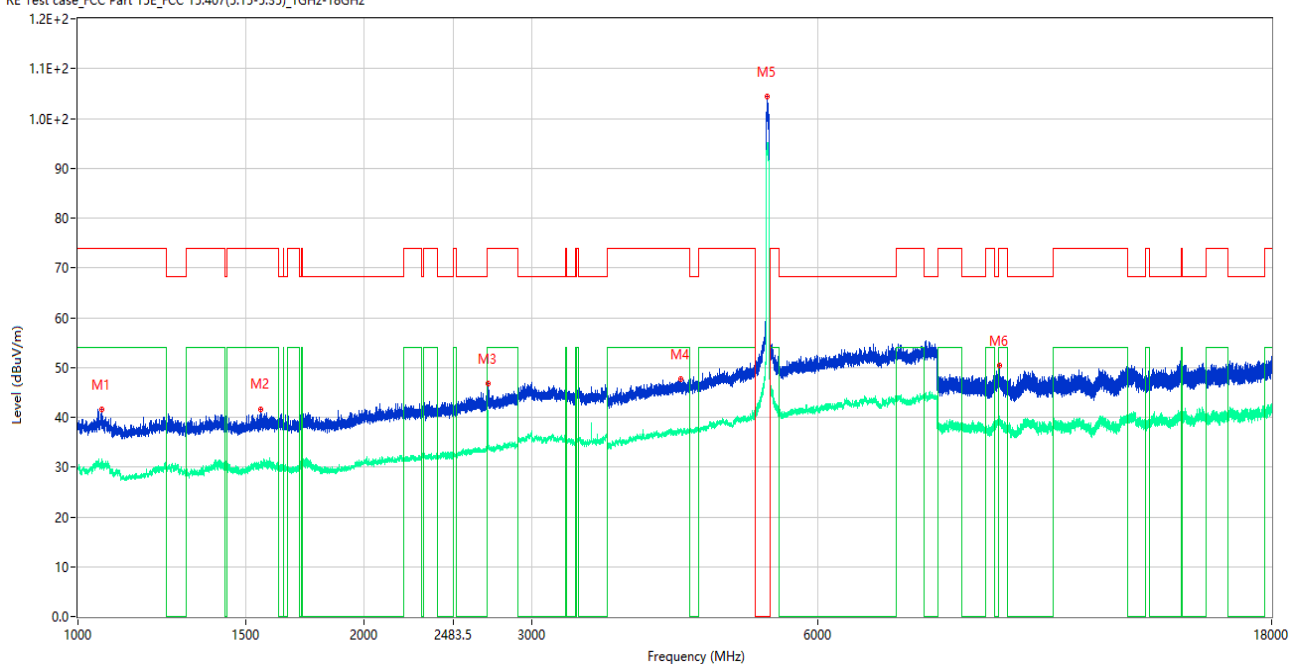
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1406.500	43.72	-15.38	74.0	30.28	Peak	135.00	150	Vertical	Pass
1**	1406.500	32.82	-15.38	54.0	21.18	AV	135.00	150	Vertical	Pass
2	2859.500	47.35	-7.61	74.0	26.65	Peak	238.00	150	Vertical	Pass
2**	2859.500	35.16	-7.61	54.0	18.84	AV	238.00	150	Vertical	Pass
3	4267.500	48.80	-2.60	74.0	25.20	Peak	360.00	150	Vertical	Pass
3**	4267.500	37.28	-2.60	54.0	16.72	AV	360.00	150	Vertical	Pass
4	5297.000	107.97	-0.51	--	102.03	Peak	210.00	150	Vertical	N/A
4**	5297.000	99.36	-0.51	--	-99.36	AV	210.00	150	Vertical	N/A
5	7428.000	54.64	2.51	74.0	19.36	Peak	259.00	150	Vertical	Pass
5**	7428.000	43.17	2.51	54.0	10.83	AV	259.00	150	Vertical	Pass
6	15723.076	50.90	1.37	74.0	23.10	Peak	187.00	150	Vertical	Pass
6**	15723.076	40.12	1.37	54.0	13.88	AV	187.00	150	Vertical	Pass

11ax40 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

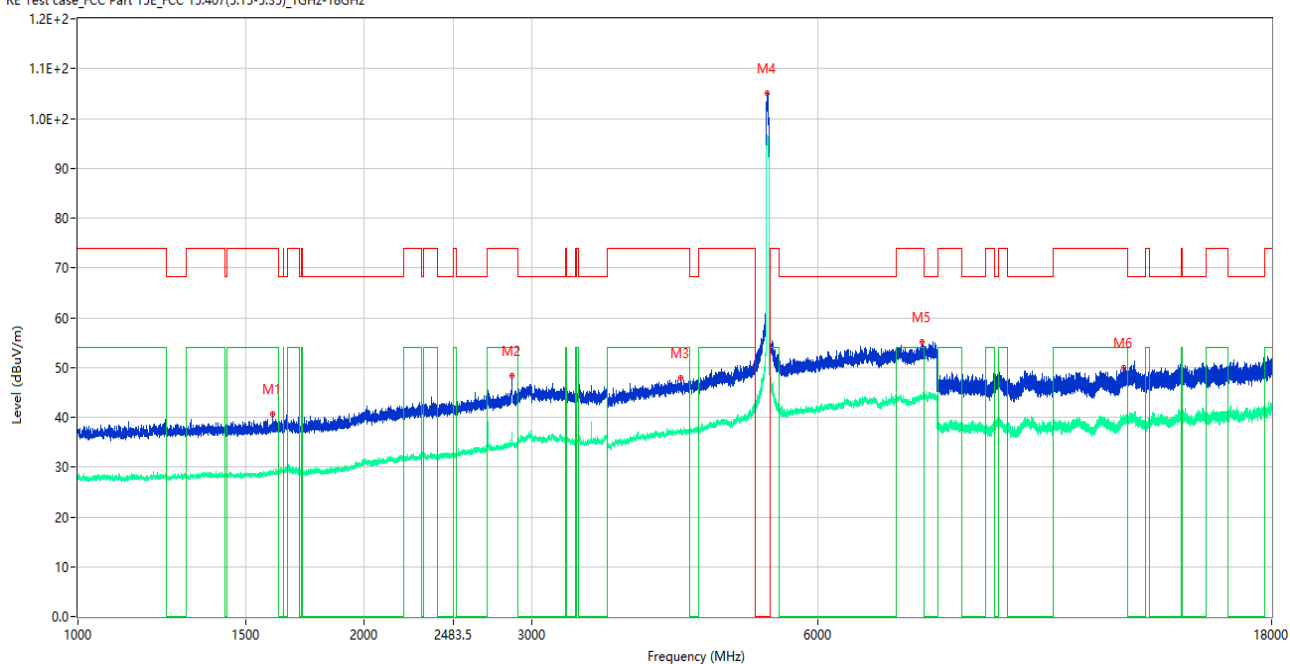
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1060.500	41.57	-15.55	74.0	32.43	Peak	236.00	150	Horizontal	Pass
1**	1060.500	29.65	-15.55	54.0	24.35	AV	236.00	150	Horizontal	Pass
2	1556.500	41.69	-15.28	74.0	32.31	Peak	222.00	150	Horizontal	Pass
2**	1556.500	30.31	-15.28	54.0	23.69	AV	222.00	150	Horizontal	Pass
3	2700.000	46.71	-9.22	74.0	27.29	Peak	258.00	150	Horizontal	Pass
3**	2700.000	40.09	-9.22	54.0	13.91	AV	258.00	150	Horizontal	Pass
4	4307.000	47.67	-2.73	74.0	26.33	Peak	355.00	150	Horizontal	Pass
4**	4307.000	37.16	-2.73	54.0	16.84	AV	355.00	150	Horizontal	Pass
5	5308.000	104.30	-0.56	--	144.70	Peak	249.00	150	Horizontal	N/A
5**	5308.000	94.36	-0.56	--	-94.36	AV	249.00	150	Horizontal	N/A
6	9305.538	50.30	-1.83	74.0	23.70	Peak	68.00	150	Horizontal	Pass
6**	9305.538	39.53	-1.83	54.0	14.47	AV	68.00	150	Horizontal	Pass

11ax40 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

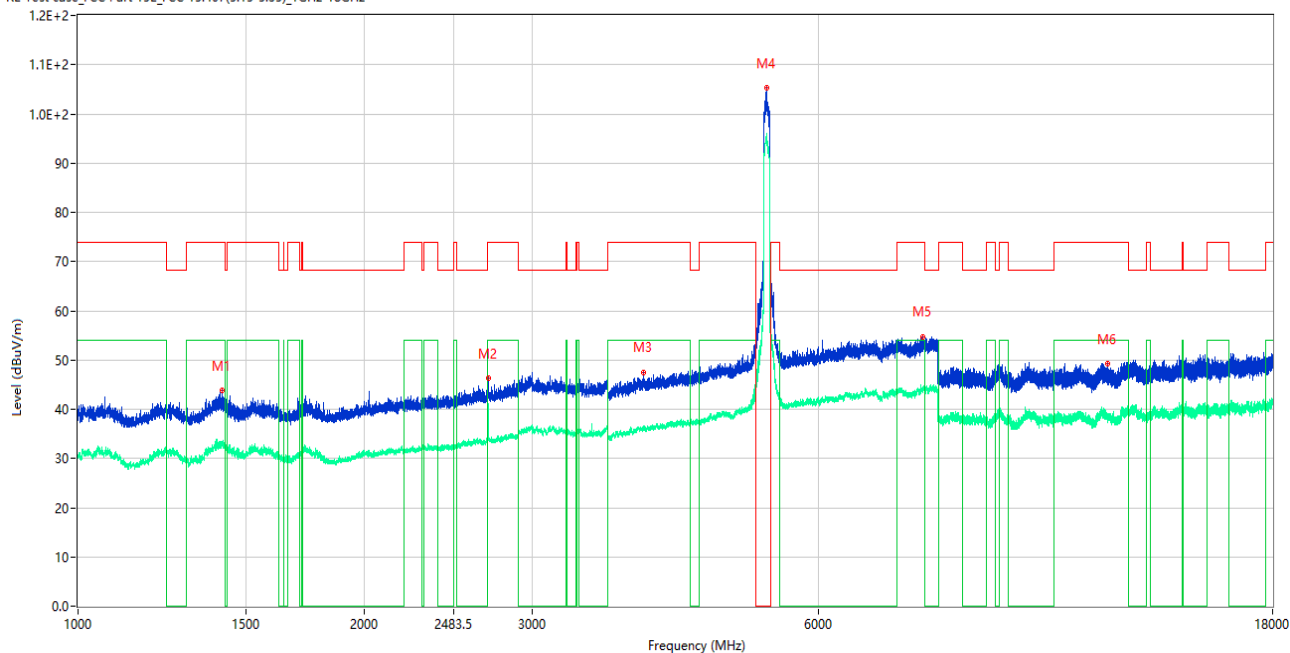
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1602.000	40.60	-15.24	74.0	33.40	Peak	360.00	150	Vertical	Pass
1**	1602.000	29.07	-15.24	54.0	24.93	AV	360.00	150	Vertical	Pass
2	2861.250	48.32	-7.55	74.0	25.68	Peak	246.00	150	Vertical	Pass
2**	2861.250	35.41	-7.55	54.0	18.59	AV	246.00	150	Vertical	Pass
3	4303.500	47.84	-2.71	74.0	26.16	Peak	11.00	150	Vertical	Pass
3**	4303.500	37.06	-2.71	54.0	16.94	AV	11.00	150	Vertical	Pass
4	5307.000	104.98	-0.56	--	153.02	Peak	258.00	150	Vertical	N/A
4**	5307.000	95.79	-0.56	--	-95.79	AV	258.00	150	Vertical	N/A
5	7722.500	55.20	3.05	74.0	18.80	Peak	4.00	150	Vertical	Pass
5**	7722.500	43.55	3.05	54.0	10.45	AV	4.00	150	Vertical	Pass
6	12585.650	49.97	-0.27	74.0	24.03	Peak	68.00	150	Vertical	Pass
6**	12585.650	39.71	-0.27	54.0	14.29	AV	68.00	150	Vertical	Pass

11ax80 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

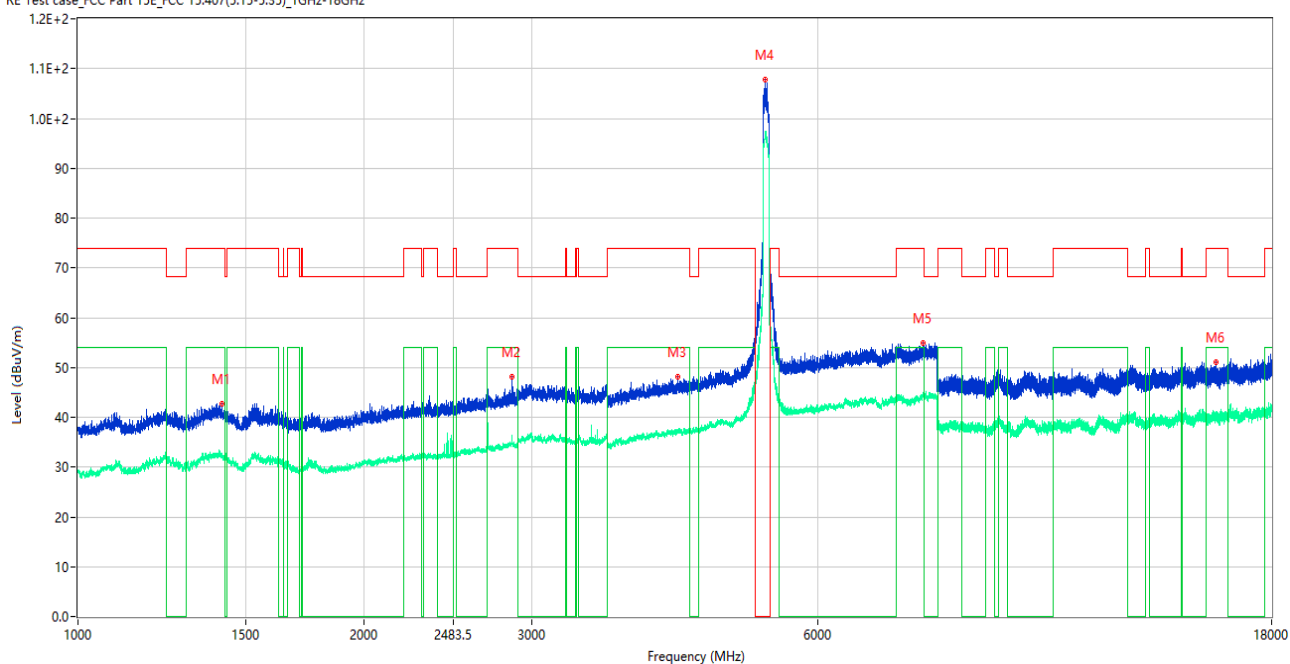
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1415.750	43.87	-15.37	74.0	30.13	Peak	218.00	150	Horizontal	Pass
1**	1415.750	32.88	-15.37	54.0	21.12	AV	218.00	150	Horizontal	Pass
2	2700.000	46.39	-9.22	74.0	27.61	Peak	265.00	150	Horizontal	Pass
2**	2700.000	40.13	-9.22	54.0	13.87	AV	265.00	150	Horizontal	Pass
3	3930.500	47.47	-2.59	74.0	26.53	Peak	0.00	150	Horizontal	Pass
3**	3930.500	36.07	-2.59	54.0	17.93	AV	0.00	150	Horizontal	Pass
4	5292.000	105.35	-0.51	--	143.65	Peak	249.00	150	Horizontal	N/A
4**	5292.000	95.77	-0.51	--	-95.77	AV	249.00	150	Horizontal	N/A
5	7727.500	54.61	3.02	74.0	19.39	Peak	211.00	150	Horizontal	Pass
5**	7727.500	43.74	3.02	54.0	10.26	AV	211.00	150	Horizontal	Pass
6	12069.800	49.28	-1.02	74.0	24.72	Peak	46.00	150	Horizontal	Pass
6**	12069.800	38.63	-1.02	54.0	15.37	AV	46.00	150	Horizontal	Pass

11ax80 (SU), U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

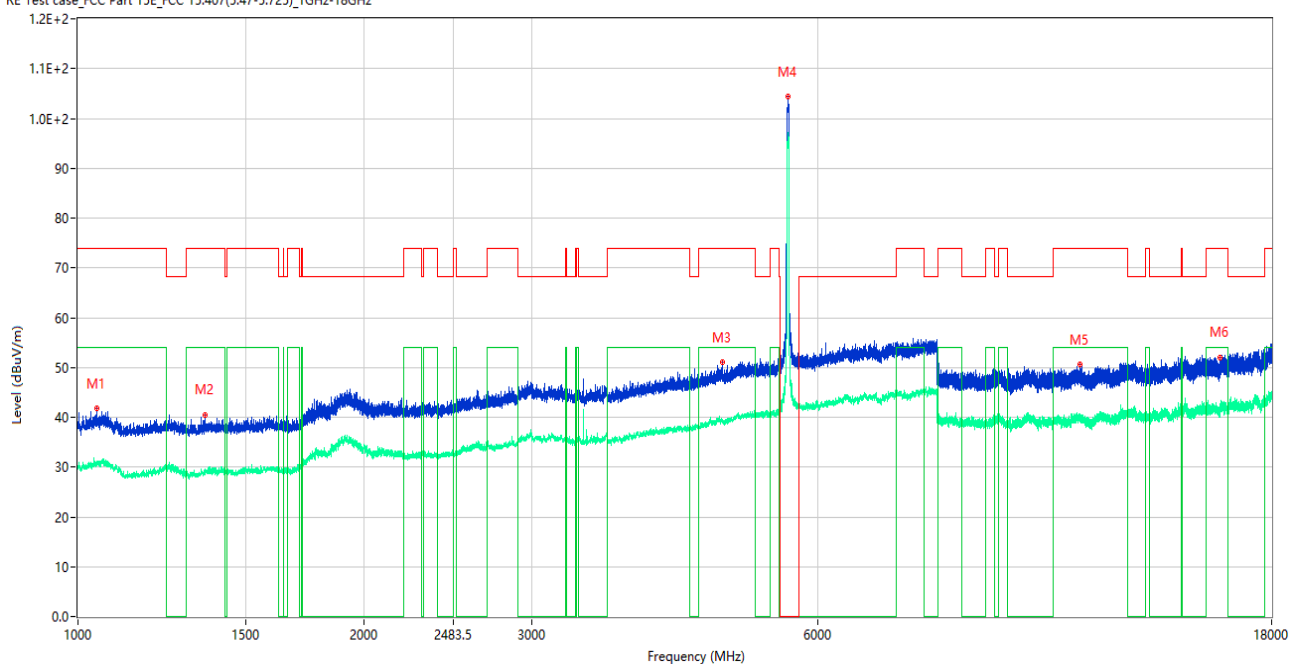
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1417.500	42.79	-15.34	74.0	31.21	Peak	144.00	150	Vertical	Pass
1**	1417.500	32.55	-15.34	54.0	21.45	AV	144.00	150	Vertical	Pass
2	2861.000	48.09	-7.55	74.0	25.91	Peak	236.00	150	Vertical	Pass
2**	2861.000	35.73	-7.55	54.0	18.27	AV	236.00	150	Vertical	Pass
3	4277.500	48.16	-2.44	74.0	25.84	Peak	0.00	150	Vertical	Pass
3**	4277.500	36.90	-2.44	54.0	17.10	AV	0.00	150	Vertical	Pass
4	5286.000	107.71	-0.67	--	151.29	Peak	259.00	150	Vertical	N/A
4**	5286.000	96.97	-0.67	--	-96.97	AV	259.00	150	Vertical	N/A
5	7737.000	54.82	3.31	74.0	19.18	Peak	150.00	150	Vertical	Pass
5**	7737.000	44.25	3.31	54.0	9.75	AV	150.00	150	Vertical	Pass
6	15721.500	50.96	1.40	74.0	23.04	Peak	15.00	150	Vertical	Pass
6**	15721.500	40.66	1.40	54.0	13.34	AV	15.00	150	Vertical	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

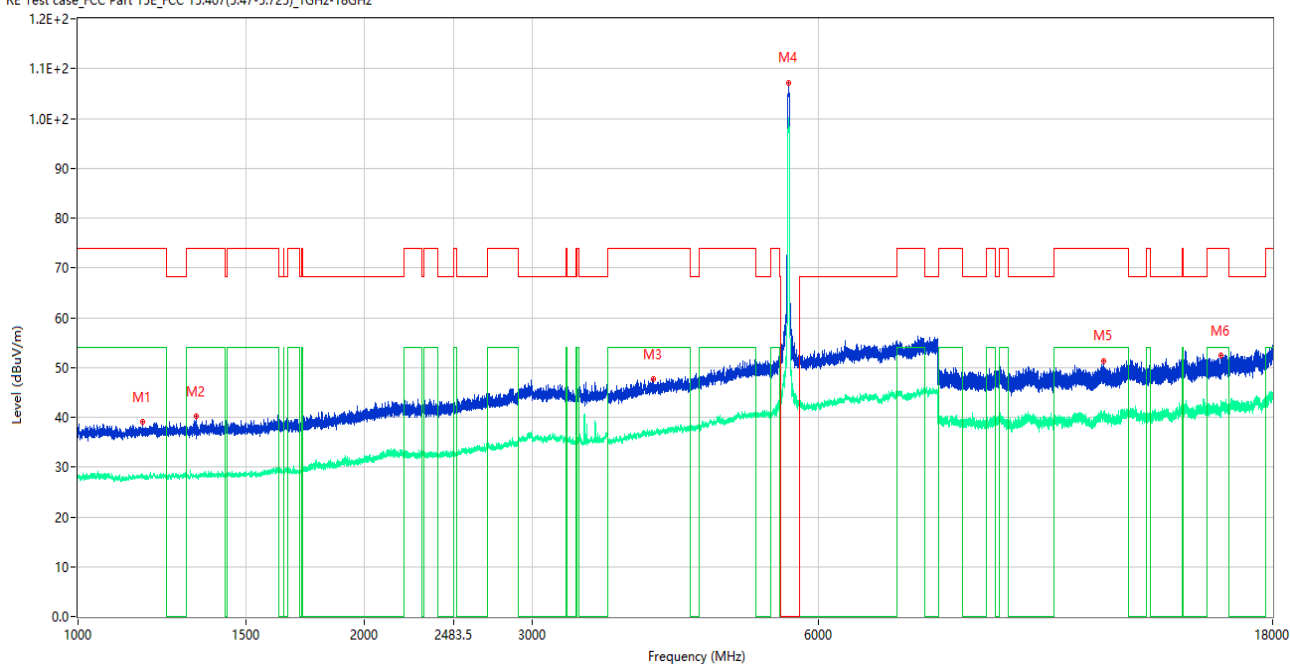
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1046.250	41.78	-15.72	74.0	32.22	Peak	149.00	150	Horizontal	Pass
1**	1046.250	30.77	-15.72	54.0	23.23	AV	149.00	150	Horizontal	Pass
2	1361.750	40.55	-15.37	74.0	33.45	Peak	139.00	150	Horizontal	Pass
2**	1361.750	29.04	-15.37	54.0	24.96	AV	139.00	150	Horizontal	Pass
3	4760.000	50.98	-1.89	74.0	23.02	Peak	32.00	150	Horizontal	Pass
3**	4760.000	38.85	-1.89	54.0	15.15	AV	32.00	150	Horizontal	Pass
4	5586.000	104.42	-0.60	--	25.58	Peak	130.00	150	Horizontal	N/A
4**	5586.000	96.58	-0.60	--	-96.58	AV	130.00	150	Horizontal	N/A
5	11311.462	50.67	-1.40	74.0	23.33	Peak	6.00	150	Horizontal	Pass
5**	11311.462	40.07	-1.40	54.0	13.93	AV	6.00	150	Horizontal	Pass
6	15883.725	52.00	1.59	74.0	22.00	Peak	15.00	150	Horizontal	Pass
6**	15883.725	41.45	1.59	54.0	12.55	AV	15.00	150	Horizontal	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

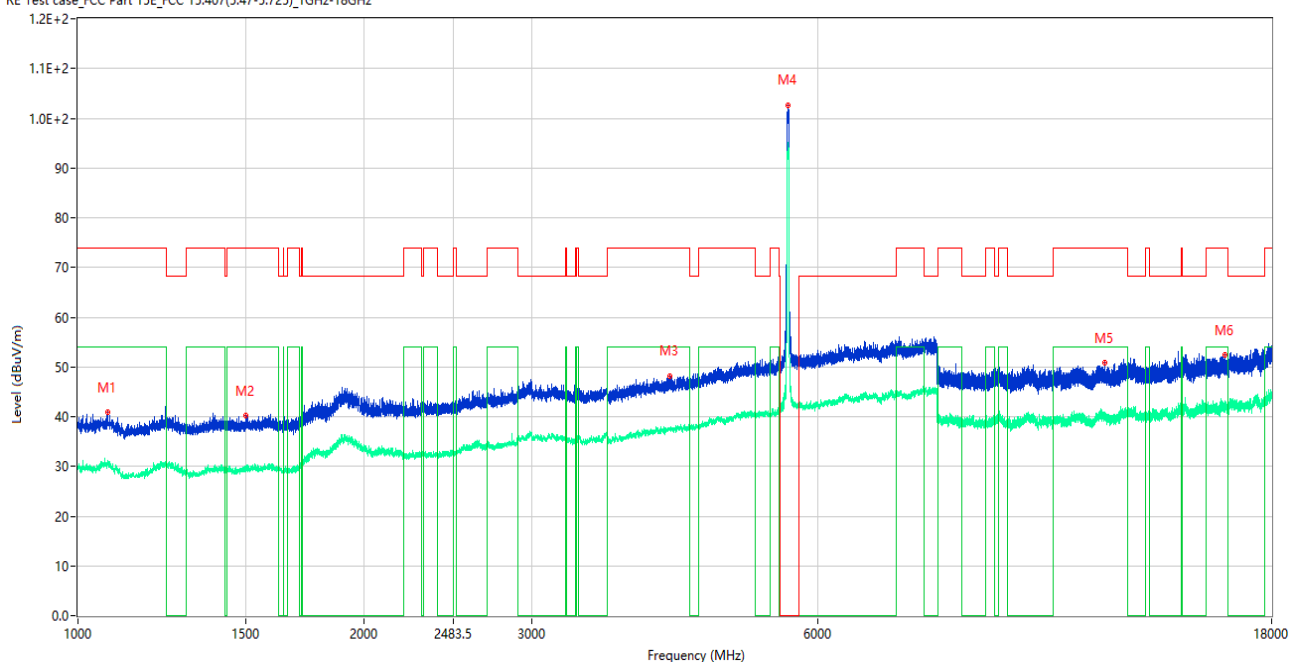
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1170.000	39.12	-15.49	74.0	34.88	Peak	9.00	150	Vertical	Pass
1**	1170.000	28.04	-15.49	54.0	25.96	AV	9.00	150	Vertical	Pass
2	1332.000	40.12	-15.53	74.0	33.88	Peak	167.00	150	Vertical	Pass
2**	1332.000	28.08	-15.53	54.0	25.92	AV	167.00	150	Vertical	Pass
3	4022.000	47.77	-3.05	74.0	26.23	Peak	0.00	150	Vertical	Pass
3**	4022.000	36.62	-3.05	54.0	17.38	AV	0.00	150	Vertical	Pass
4	5578.500	107.21	-0.75	--	70.79	Peak	178.00	150	Vertical	N/A
4**	5578.500	99.35	-0.75	--	-99.35	AV	178.00	150	Vertical	N/A
5	11950.099	51.41	-1.18	74.0	22.59	Peak	45.00	150	Vertical	Pass
5**	11950.099	39.64	-1.18	54.0	14.36	AV	45.00	150	Vertical	Pass
6	15895.276	52.53	1.70	74.0	21.47	Peak	332.00	150	Vertical	Pass
6**	15895.276	42.32	1.70	54.0	11.68	AV	332.00	150	Vertical	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

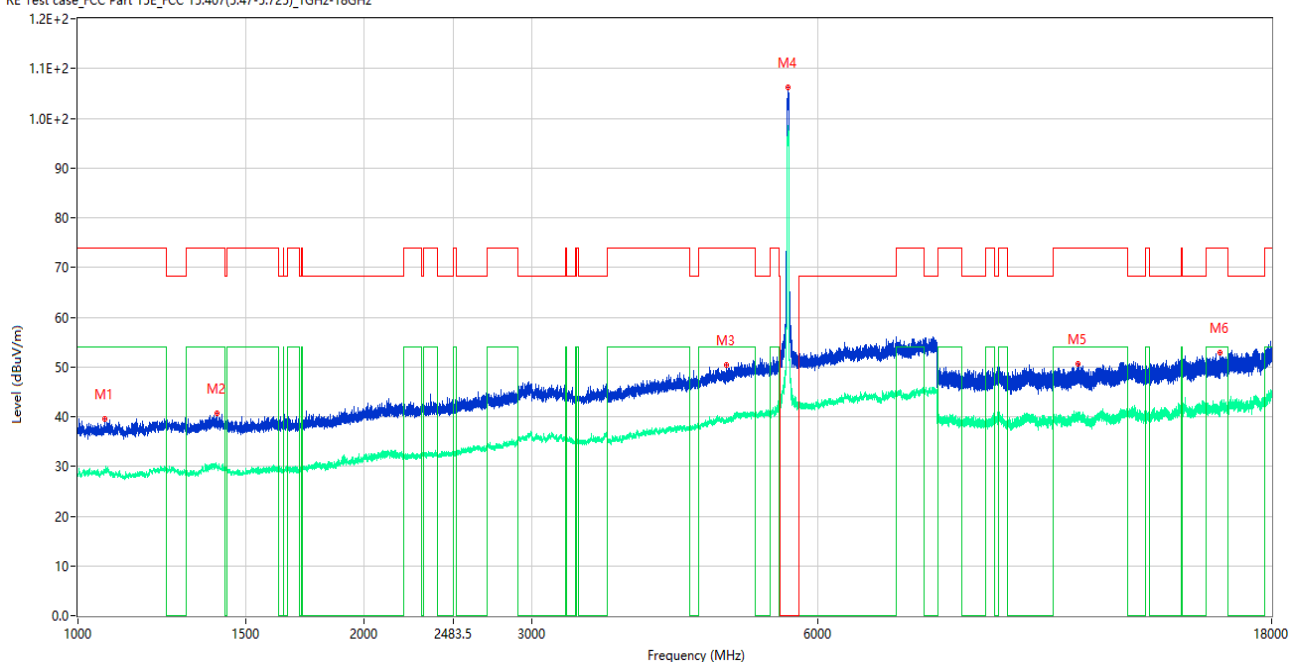
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1074.250	40.85	-15.57	74.0	33.15	Peak	145.00	150	Horizontal	Pass
1**	1074.250	30.76	-15.57	54.0	23.24	AV	145.00	150	Horizontal	Pass
2	1501.500	40.13	-15.34	74.0	33.87	Peak	182.00	150	Horizontal	Pass
2**	1501.500	29.44	-15.34	54.0	24.56	AV	182.00	150	Horizontal	Pass
3	4188.000	48.23	-2.90	74.0	25.77	Peak	343.00	150	Horizontal	Pass
3**	4188.000	37.30	-2.90	54.0	16.70	AV	343.00	150	Horizontal	Pass
4	5579.000	102.70	-0.74	--	21.30	Peak	124.00	150	Horizontal	N/A
4**	5579.000	95.11	-0.74	--	-95.11	AV	124.00	150	Horizontal	N/A
5	12019.687	50.82	-0.99	74.0	23.18	Peak	18.00	150	Horizontal	Pass
5**	12019.687	40.01	-0.99	54.0	13.99	AV	18.00	150	Horizontal	Pass
6	16064.588	52.46	1.88	74.0	21.54	Peak	15.00	150	Horizontal	Pass
6**	16064.588	41.69	1.88	54.0	12.31	AV	15.00	150	Horizontal	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

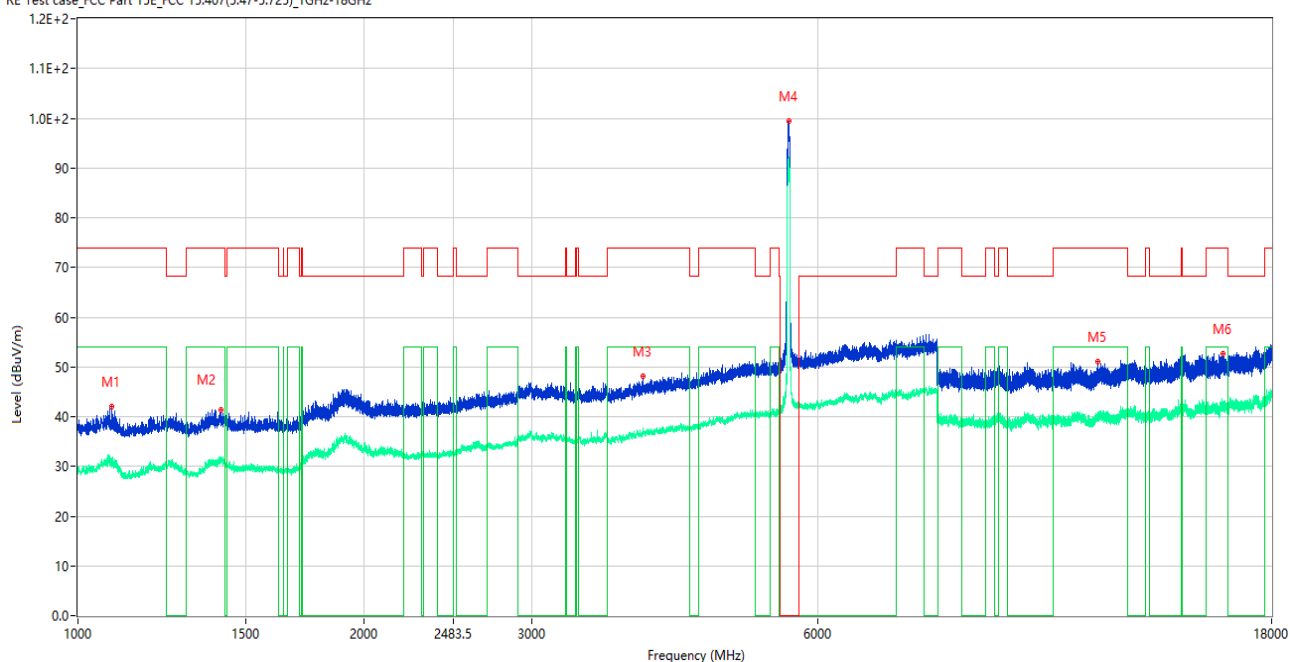
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.750	39.44	-15.59	74.0	34.56	Peak	211.00	150	Vertical	Pass
1**	1066.750	28.79	-15.59	54.0	25.21	AV	211.00	150	Vertical	Pass
2	1399.500	40.64	-15.43	74.0	33.36	Peak	230.00	150	Vertical	Pass
2**	1399.500	29.79	-15.43	54.0	24.21	AV	230.00	150	Vertical	Pass
3	4808.000	50.32	-1.35	74.0	23.68	Peak	278.00	150	Vertical	Pass
3**	4808.000	38.89	-1.35	54.0	15.11	AV	278.00	150	Vertical	Pass
4	5581.500	106.13	-0.71	--	71.87	Peak	178.00	150	Vertical	N/A
4**	5581.500	94.88	-0.71	--	-94.88	AV	178.00	150	Vertical	N/A
5	11255.650	50.67	-1.39	74.0	23.33	Peak	360.00	150	Vertical	Pass
5**	11255.650	39.64	-1.39	54.0	14.36	AV	360.00	150	Vertical	Pass
6	15879.788	52.77	1.63	74.0	21.23	Peak	50.00	150	Vertical	Pass
6**	15879.788	41.65	1.63	54.0	12.35	AV	50.00	150	Vertical	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

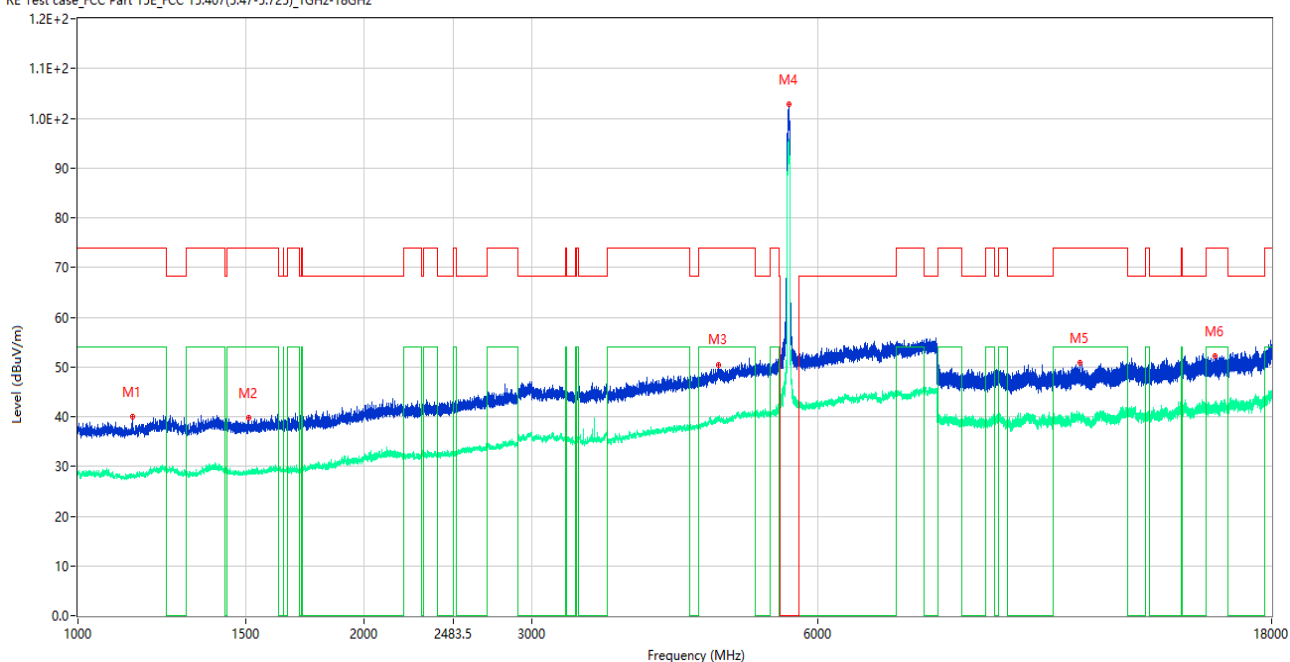
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1086.250	42.06	-15.80	74.0	31.94	Peak	135.00	150	Horizontal	Pass
1**	1086.250	31.10	-15.80	54.0	22.90	AV	135.00	150	Horizontal	Pass
2	1413.000	41.46	-15.34	74.0	32.54	Peak	50.00	150	Horizontal	Pass
2**	1413.000	30.79	-15.34	54.0	23.21	AV	50.00	150	Horizontal	Pass
3	3932.500	48.16	-2.69	74.0	25.84	Peak	196.00	150	Horizontal	Pass
3**	3932.500	36.45	-2.69	54.0	17.55	AV	196.00	150	Horizontal	Pass
4	5588.500	99.43	-0.57	--	66.57	Peak	166.00	150	Horizontal	N/A
4**	5588.500	91.88	-0.57	--	-91.88	AV	166.00	150	Horizontal	N/A
5	11817.813	51.12	-1.22	74.0	22.88	Peak	21.00	150	Horizontal	Pass
5**	11817.813	40.28	-1.22	54.0	13.72	AV	21.00	150	Horizontal	Pass
6	15993.187	52.54	0.92	74.0	21.46	Peak	0.00	150	Horizontal	Pass
6**	15993.187	41.32	0.92	54.0	12.68	AV	0.00	150	Horizontal	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

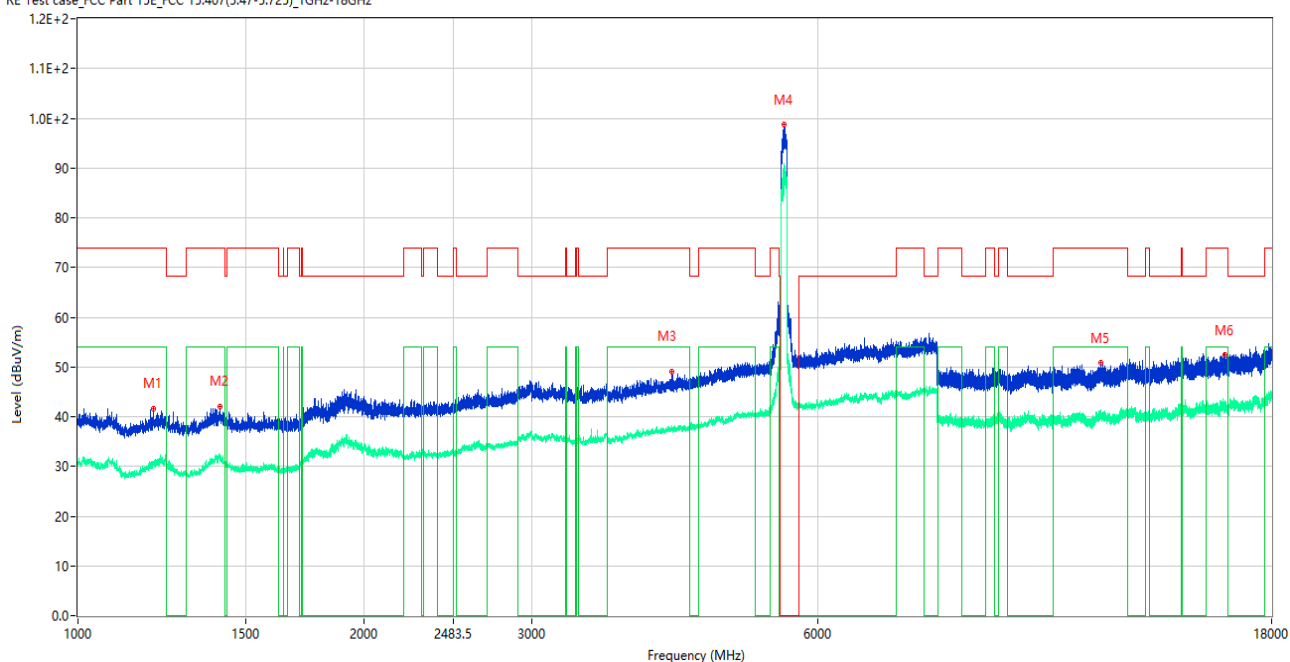
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1142.500	39.89	-15.35	74.0	34.11	Peak	360.00	150	Vertical	Pass
1**	1142.500	28.31	-15.35	54.0	25.69	AV	360.00	150	Vertical	Pass
2	1511.000	39.88	-15.23	74.0	34.12	Peak	153.00	150	Vertical	Pass
2**	1511.000	28.79	-15.23	54.0	25.21	AV	153.00	150	Vertical	Pass
3	4717.500	50.29	-1.93	74.0	23.71	Peak	283.00	150	Vertical	Pass
3**	4717.500	39.37	-1.93	54.0	14.63	AV	283.00	150	Vertical	Pass
4	5592.500	102.77	-0.61	--	71.23	Peak	174.00	150	Vertical	N/A
4**	5592.500	95.66	-0.61	--	-95.66	AV	174.00	150	Vertical	N/A
5	11313.838	50.79	-1.34	74.0	23.21	Peak	88.00	150	Vertical	Pass
5**	11313.838	40.37	-1.34	54.0	13.63	AV	88.00	150	Vertical	Pass
6	15705.750	52.13	1.28	74.0	21.87	Peak	187.00	150	Vertical	Pass
6**	15705.750	41.51	1.28	54.0	12.49	AV	187.00	150	Vertical	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

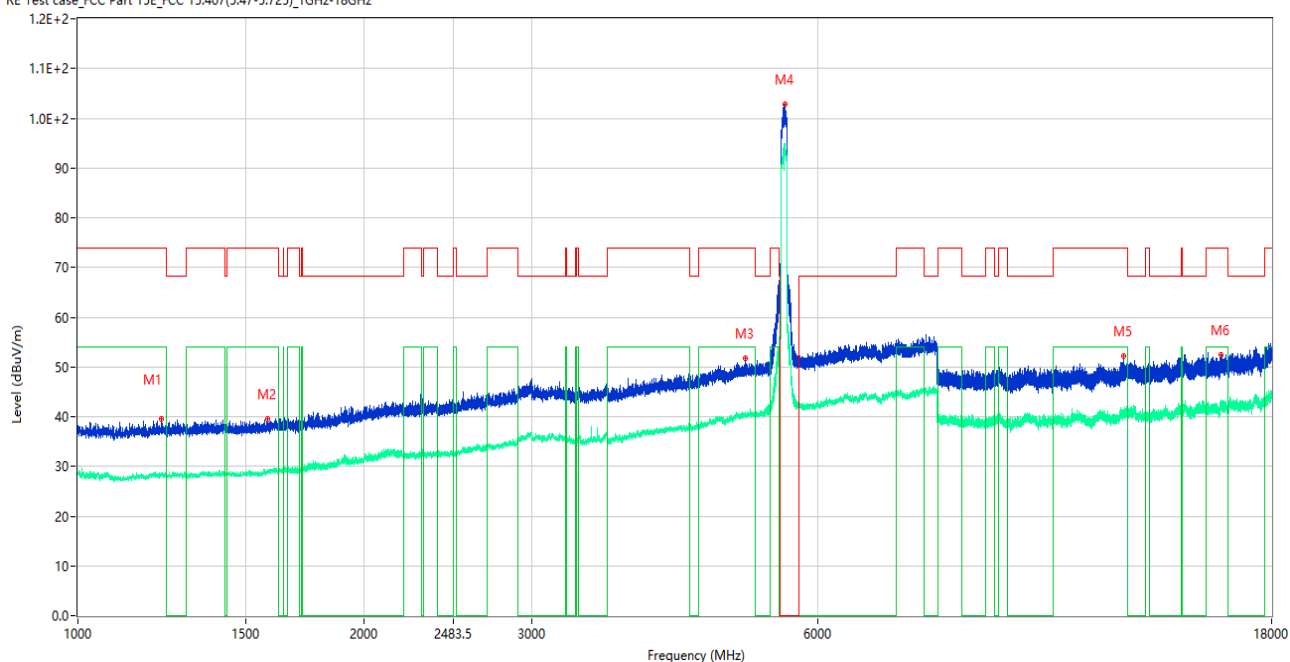
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.500	41.68	-15.30	74.0	32.32	Peak	130.00	150	Horizontal	Pass
1**	1200.500	30.81	-15.30	54.0	23.19	AV	130.00	150	Horizontal	Pass
2	1409.000	42.13	-15.38	74.0	31.87	Peak	136.00	150	Horizontal	Pass
2**	1409.000	32.30	-15.38	54.0	21.70	AV	136.00	150	Horizontal	Pass
3	4216.000	49.06	-2.73	74.0	24.94	Peak	207.00	150	Horizontal	Pass
3**	4216.000	37.60	-2.73	54.0	16.40	AV	207.00	150	Horizontal	Pass
4	5523.000	98.79	-0.71	--	67.21	Peak	166.00	150	Horizontal	N/A
4**	5523.000	88.03	-0.71	--	-88.03	AV	166.00	150	Horizontal	N/A
5	11902.363	50.93	-0.79	74.0	23.07	Peak	0.00	150	Horizontal	Pass
5**	11902.363	40.34	-0.79	54.0	13.66	AV	0.00	150	Horizontal	Pass
6	16060.912	52.41	1.76	74.0	21.59	Peak	0.00	150	Horizontal	Pass
6**	16060.912	42.30	1.76	54.0	11.70	AV	0.00	150	Horizontal	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

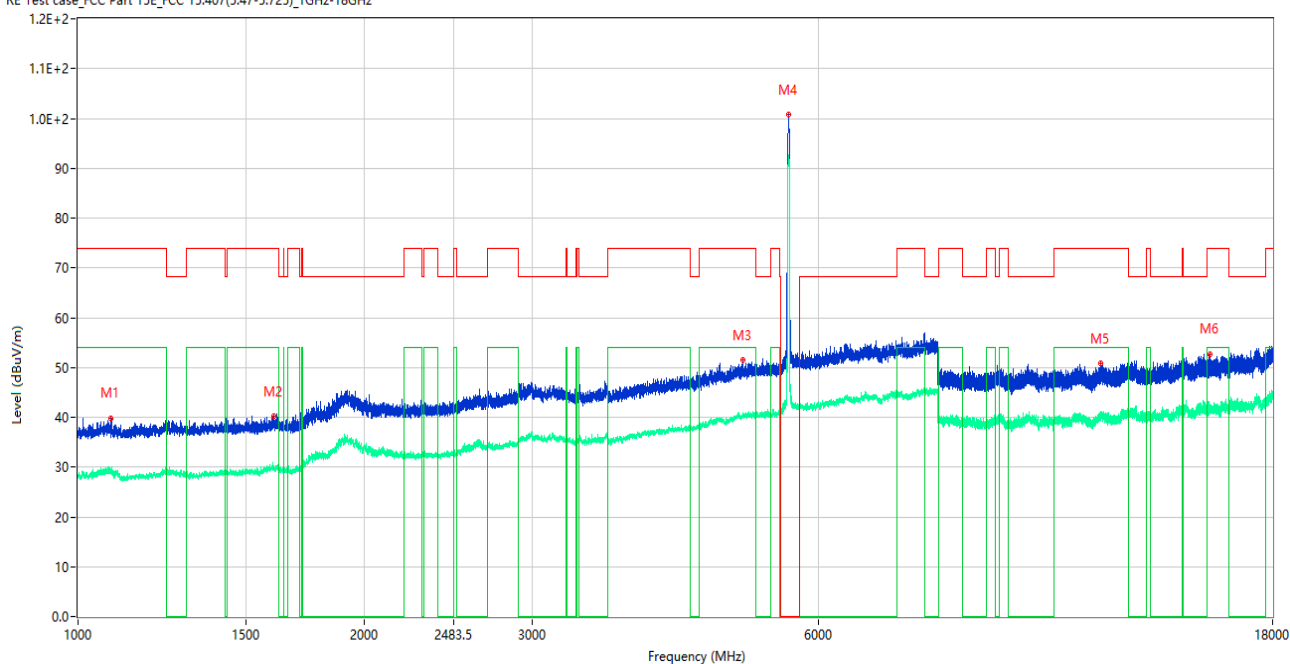
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1224.750	39.48	-15.62	74.0	34.52	Peak	360.00	150	Vertical	Pass
1**	1224.750	28.32	-15.62	54.0	25.68	AV	360.00	150	Vertical	Pass
2	1584.000	39.60	-15.58	74.0	34.40	Peak	4.00	150	Vertical	Pass
2**	1584.000	28.74	-15.58	54.0	25.26	AV	4.00	150	Vertical	Pass
3	5029.000	51.67	-0.77	74.0	22.33	Peak	0.00	150	Vertical	Pass
3**	5029.000	40.71	-0.77	54.0	13.29	AV	0.00	150	Vertical	Pass
4	5543.500	102.81	-0.71	--	72.19	Peak	175.00	150	Vertical	N/A
4**	5543.500	93.41	-0.71	--	-93.41	AV	175.00	150	Vertical	N/A
5	12577.338	52.13	-0.38	74.0	21.87	Peak	69.00	150	Vertical	Pass
5**	12577.338	40.20	-0.38	54.0	13.80	AV	69.00	150	Vertical	Pass
6	15935.438	52.41	1.44	74.0	21.59	Peak	0.00	150	Vertical	Pass
6**	15935.438	42.11	1.44	54.0	11.89	AV	0.00	150	Vertical	Pass

11ax20 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

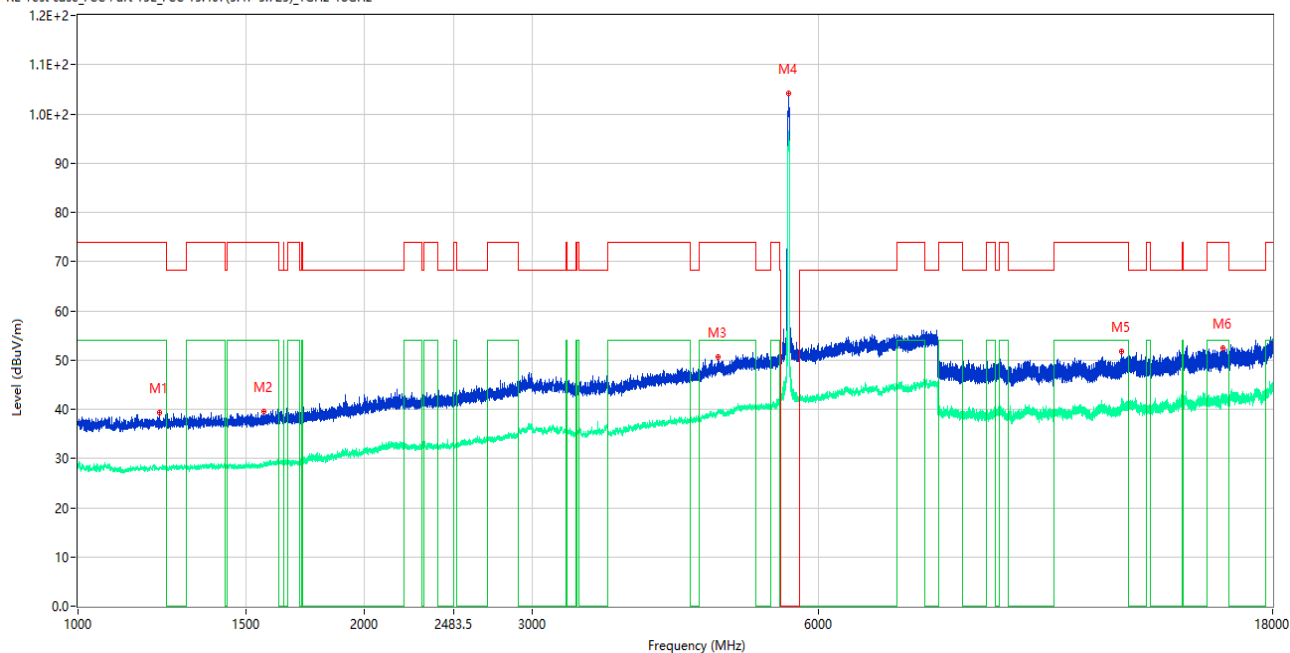
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1083.000	39.89	-15.70	74.0	34.11	Peak	223.00	150	Horizontal	Pass
1**	1083.000	29.55	-15.70	54.0	24.45	AV	223.00	150	Horizontal	Pass
2	1606.250	40.24	-15.23	74.0	33.76	Peak	284.00	150	Horizontal	Pass
2**	1606.250	29.81	-15.23	54.0	24.19	AV	284.00	150	Horizontal	Pass
3	4997.000	51.45	-0.91	74.0	22.55	Peak	207.00	150	Horizontal	Pass
3**	4997.000	40.22	-0.91	54.0	13.78	AV	207.00	150	Horizontal	Pass
4	5584.500	100.84	-0.65	--	24.16	Peak	125.00	150	Horizontal	N/A
4**	5584.500	92.15	-0.65	--	-92.15	AV	125.00	150	Horizontal	N/A
5	11868.637	50.79	-0.64	74.0	23.21	Peak	308.00	150	Horizontal	Pass
5**	11868.637	40.39	-0.64	54.0	13.61	AV	308.00	150	Horizontal	Pass
6	15459.787	52.59	0.74	74.0	21.41	Peak	258.00	150	Horizontal	Pass
6**	15459.787	41.97	0.74	54.0	12.03	AV	258.00	150	Horizontal	Pass

11ax20 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

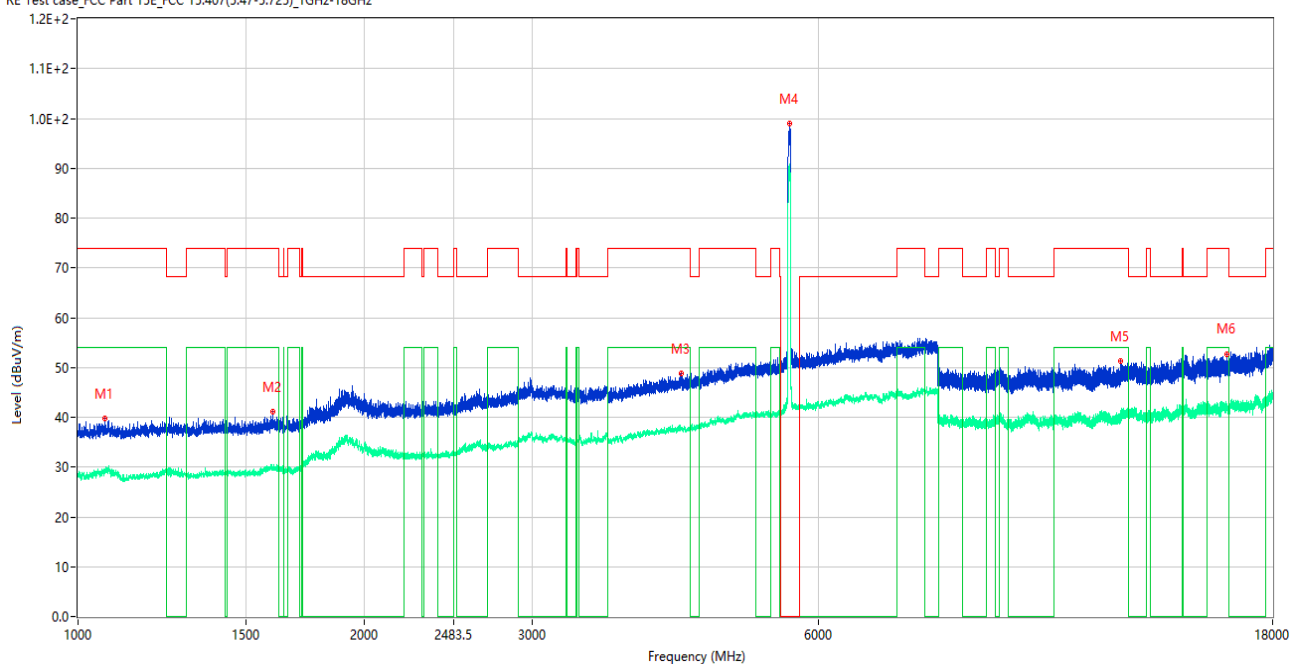
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1217.000	39.38	-15.66	74.0	34.62	Peak	360.00	150	Vertical	Pass
1**	1217.000	28.09	-15.66	54.0	25.91	AV	360.00	150	Vertical	Pass
2	1567.750	39.63	-15.21	74.0	34.37	Peak	157.00	150	Vertical	Pass
2**	1567.750	28.81	-15.21	54.0	25.19	AV	157.00	150	Vertical	Pass
3	4706.000	50.56	-2.22	74.0	23.44	Peak	286.00	150	Vertical	Pass
3**	4706.000	39.64	-2.22	54.0	14.36	AV	286.00	150	Vertical	Pass
4	5582.500	104.26	-0.68	--	61.74	Peak	166.00	150	Vertical	N/A
4**	5582.500	96.02	-0.68	--	-96.02	AV	166.00	150	Vertical	N/A
5	12482.099	51.78	-0.03	74.0	22.22	Peak	0.00	150	Vertical	Pass
5**	12482.099	40.09	-0.03	54.0	13.91	AV	0.00	150	Vertical	Pass
6	15942.000	52.47	1.62	74.0	21.53	Peak	222.00	150	Vertical	Pass
6**	15942.000	42.57	1.62	54.0	11.43	AV	222.00	150	Vertical	Pass

11ax40 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

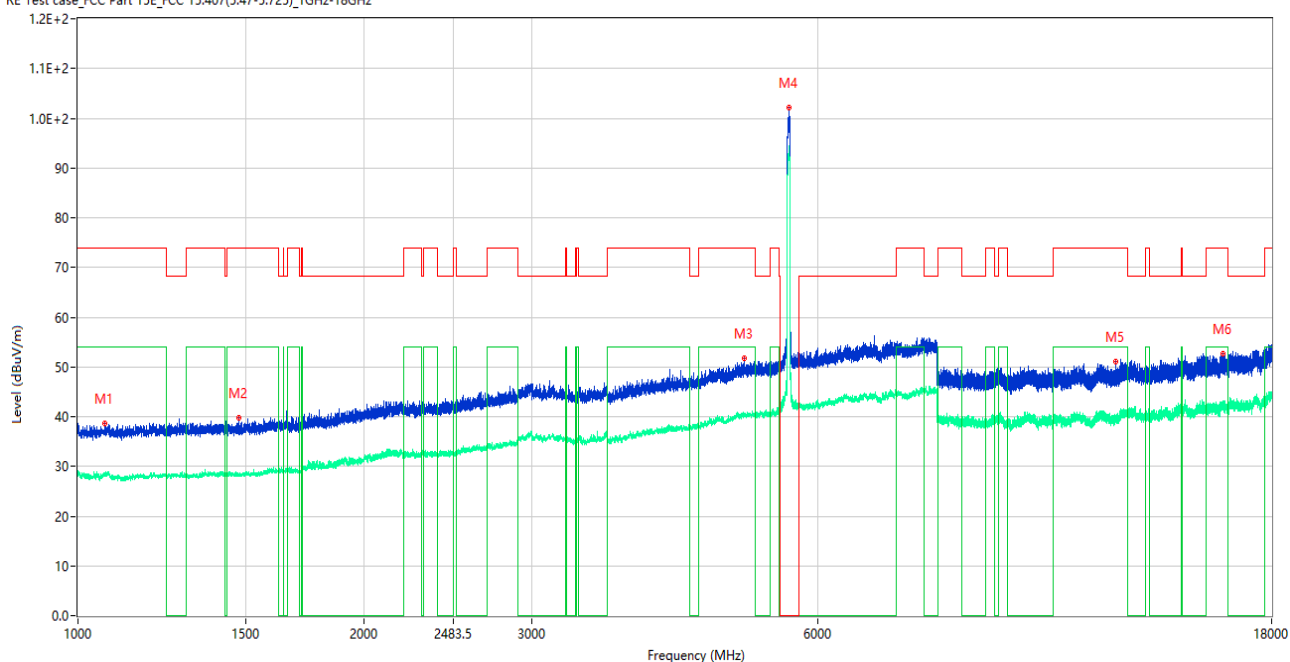
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1067.000	39.78	-15.59	74.0	34.22	Peak	228.00	150	Horizontal	Pass
1**	1067.000	29.26	-15.59	54.0	24.74	AV	228.00	150	Horizontal	Pass
2	1602.000	41.11	-15.24	74.0	32.89	Peak	270.00	150	Horizontal	Pass
2**	1602.000	29.96	-15.24	54.0	24.04	AV	270.00	150	Horizontal	Pass
3	4304.500	48.70	-2.69	74.0	25.30	Peak	359.00	150	Horizontal	Pass
3**	4304.500	37.89	-2.69	54.0	16.11	AV	359.00	150	Horizontal	Pass
4	5591.000	98.97	-0.59	--	27.03	Peak	126.00	150	Horizontal	N/A
4**	5591.000	90.14	-0.59	--	-90.14	AV	126.00	150	Horizontal	N/A
5	12458.112	51.21	-0.09	74.0	22.79	Peak	260.00	150	Horizontal	Pass
5**	12458.112	40.61	-0.09	54.0	13.39	AV	260.00	150	Horizontal	Pass
6	16116.563	52.67	1.67	74.0	21.33	Peak	154.00	150	Horizontal	Pass
6**	16116.563	41.61	1.67	54.0	12.39	AV	154.00	150	Horizontal	Pass

11ax40 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

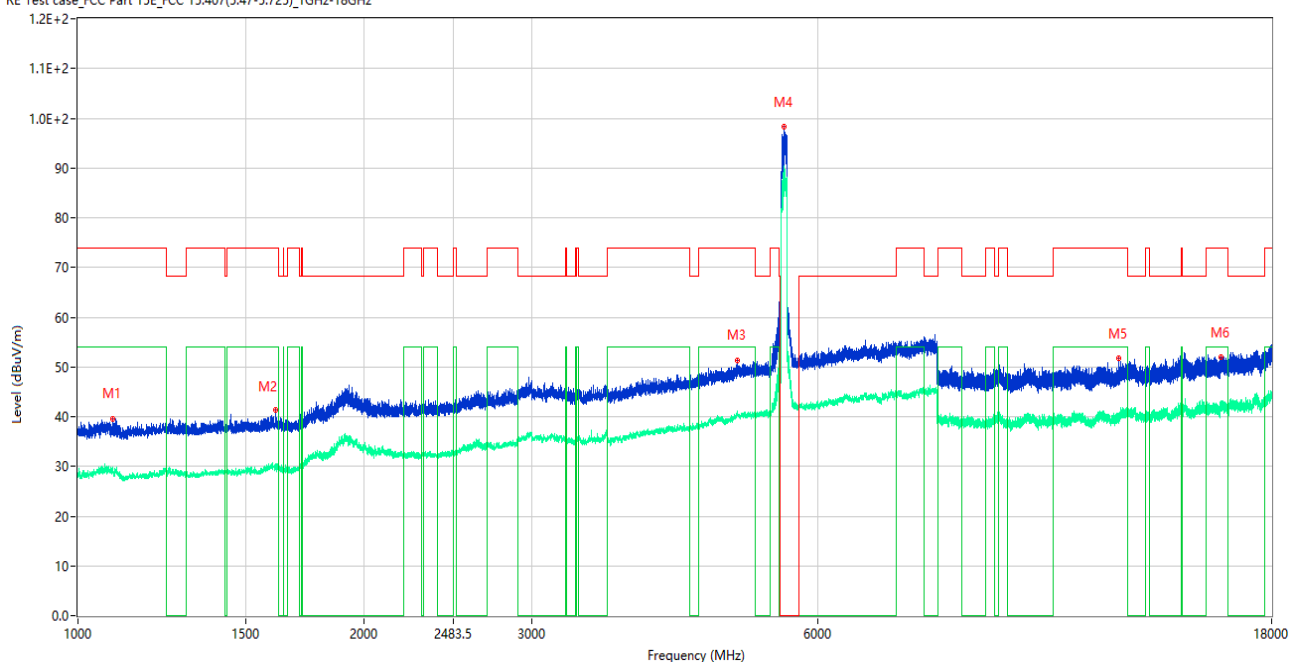
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1067.000	38.67	-15.59	74.0	35.33	Peak	211.00	150	Vertical	Pass
1**	1067.000	28.45	-15.59	54.0	25.55	AV	211.00	150	Vertical	Pass
2	1476.750	39.75	-15.64	74.0	34.25	Peak	164.00	150	Vertical	Pass
2**	1476.750	28.49	-15.64	54.0	25.51	AV	164.00	150	Vertical	Pass
3	5021.000	51.69	-0.85	74.0	22.31	Peak	34.00	150	Vertical	Pass
3**	5021.000	40.08	-0.85	54.0	13.92	AV	34.00	150	Vertical	Pass
4	5589.000	102.13	-0.58	--	71.87	Peak	174.00	150	Vertical	N/A
4**	5589.000	94.06	-0.58	--	-94.06	AV	174.00	150	Vertical	N/A
5	12341.262	51.11	-0.71	74.0	22.89	Peak	285.00	150	Vertical	Pass
5**	12341.262	38.95	-0.71	54.0	15.05	AV	285.00	150	Vertical	Pass
6	16005.262	52.71	0.99	74.0	21.29	Peak	51.00	150	Vertical	Pass
6**	16005.262	42.28	0.99	54.0	11.72	AV	51.00	150	Vertical	Pass

11ax80 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

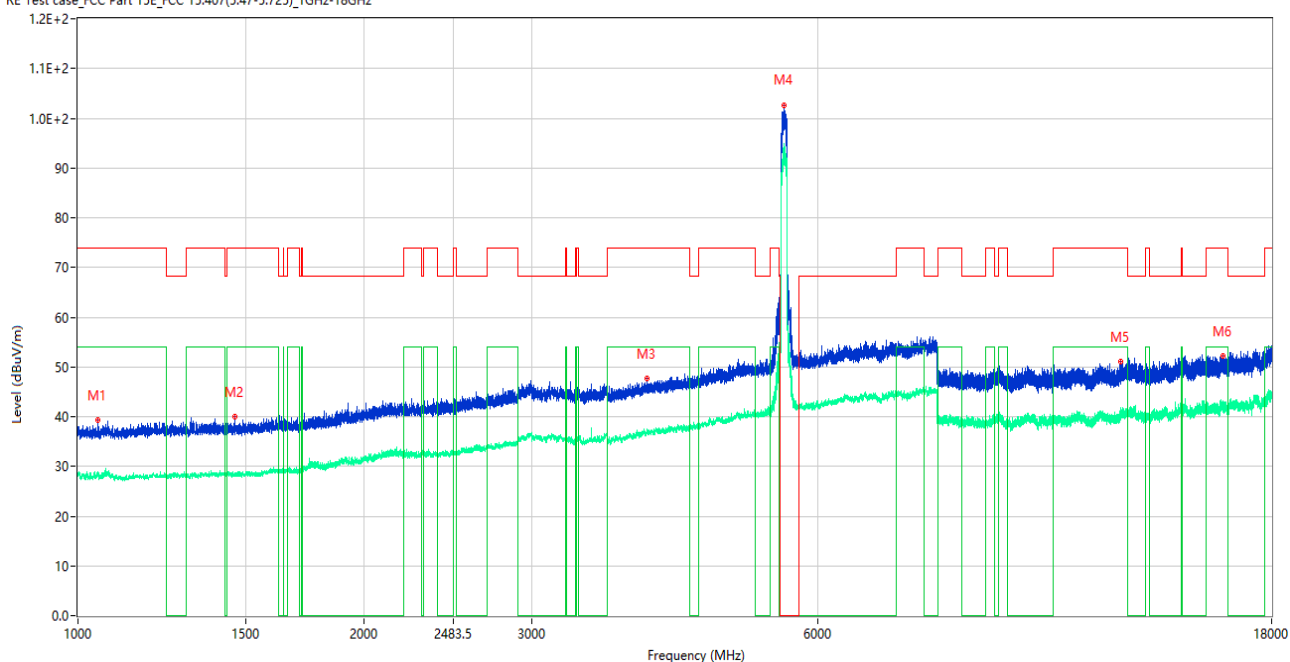
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1088.500	39.64	-15.80	74.0	34.36	Peak	228.00	150	Horizontal	Pass
1**	1088.500	28.66	-15.80	54.0	25.34	AV	228.00	150	Horizontal	Pass
2	1615.000	41.42	-15.19	74.0	32.58	Peak	205.00	150	Horizontal	Pass
2**	1615.000	29.77	-15.19	54.0	24.23	AV	205.00	150	Horizontal	Pass
3	4936.500	51.40	-0.67	74.0	22.60	Peak	0.00	150	Horizontal	Pass
3**	4936.500	40.36	-0.67	54.0	13.64	AV	0.00	150	Horizontal	Pass
4	5524.500	98.28	-0.68	--	67.72	Peak	166.00	150	Horizontal	N/A
4**	5524.500	90.42	-0.68	--	-90.42	AV	166.00	150	Horizontal	N/A
5	12422.963	51.69	-0.48	74.0	22.31	Peak	187.00	150	Horizontal	Pass
5**	12422.963	39.95	-0.48	54.0	14.05	AV	187.00	150	Horizontal	Pass
6	15940.688	51.90	1.54	74.0	22.10	Peak	0.00	150	Horizontal	Pass
6**	15940.688	42.53	1.54	54.0	11.47	AV	0.00	150	Horizontal	Pas

11ax80 (SU), U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

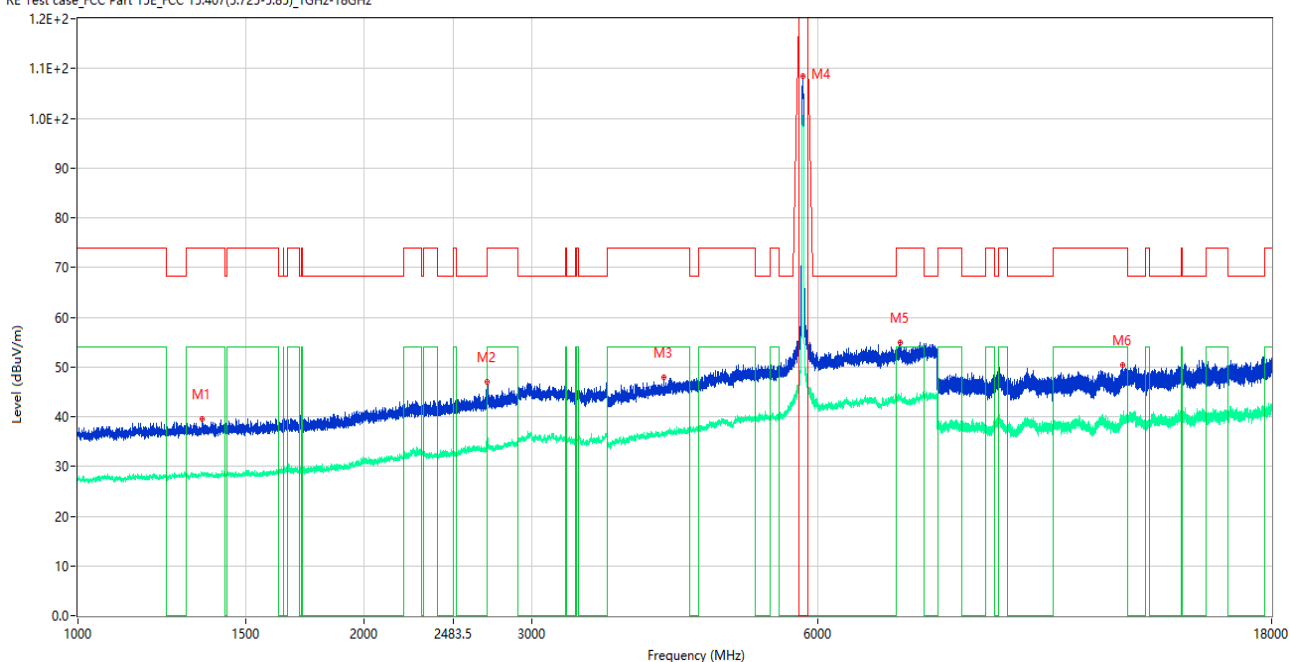
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1048.750	39.38	-15.70	74.0	34.62	Peak	219.00	150	Vertical	Pass
1**	1048.750	28.00	-15.70	54.0	26.00	AV	219.00	150	Vertical	Pass
2	1462.000	39.92	-15.45	74.0	34.08	Peak	75.00	150	Vertical	Pass
2**	1462.000	27.95	-15.45	54.0	26.05	AV	75.00	150	Vertical	Pass
3	3963.500	47.66	-3.21	74.0	26.34	Peak	349.00	150	Vertical	Pass
3**	3963.500	36.65	-3.21	54.0	17.35	AV	349.00	150	Vertical	Pass
4	5528.500	102.70	-0.63	--	72.30	Peak	175.00	150	Vertical	N/A
4**	5528.500	94.55	-0.63	--	-94.55	AV	175.00	150	Vertical	N/A
5	12504.188	51.05	-0.21	74.0	22.95	Peak	355.00	150	Vertical	Pass
5**	12504.188	40.67	-0.21	54.0	13.33	AV	355.00	150	Vertical	Pass
6	15983.475	52.30	0.99	74.0	21.70	Peak	0.00	150	Vertical	Pass
6**	15983.475	41.67	0.99	54.0	12.33	AV	0.00	150	Vertical	Pass

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

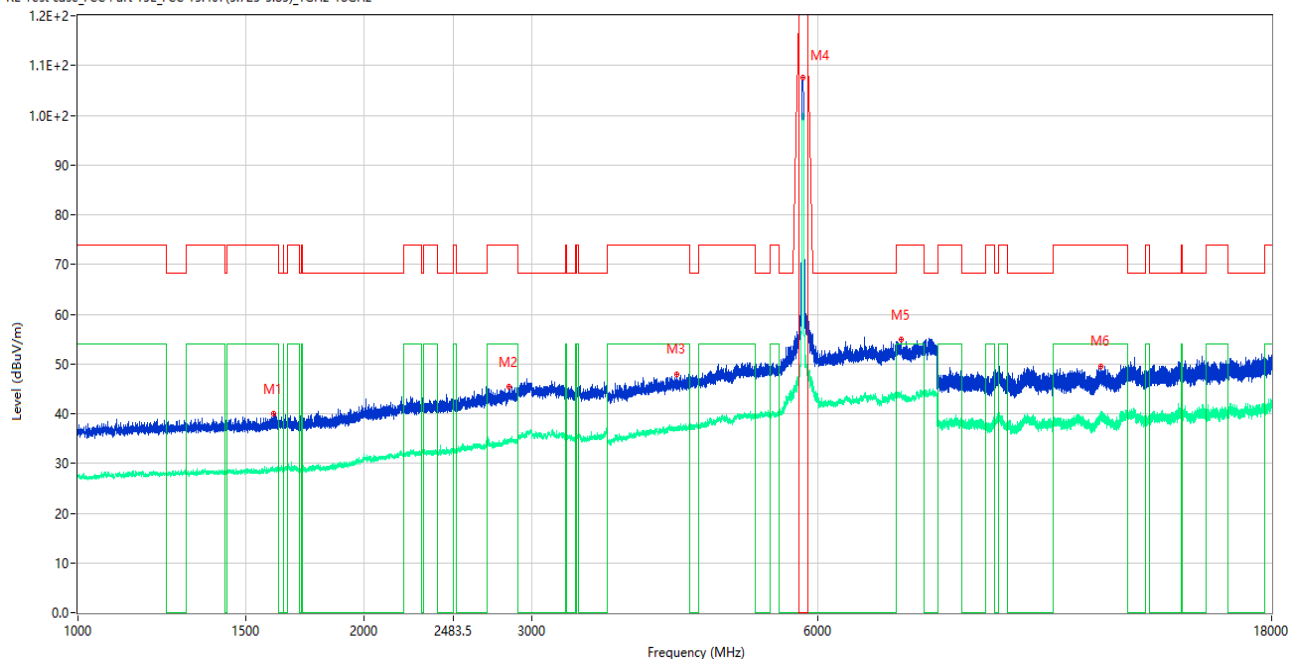
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1350.250	39.51	-15.34	74.0	34.49	Peak	308.00	150	Horizontal	Pass
1**	1350.250	28.67	-15.34	54.0	25.33	AV	308.00	150	Horizontal	Pass
2	2696.250	47.01	-9.07	74.0	26.99	Peak	149.00	150	Horizontal	Pass
2**	2696.250	34.80	-9.07	54.0	19.20	AV	149.00	150	Horizontal	Pass
3	4128.500	47.92	-3.50	74.0	26.08	Peak	0.00	150	Horizontal	Pass
3**	4128.500	36.44	-3.50	54.0	17.56	AV	0.00	150	Horizontal	Pass
4	5780.500	108.37	0.37	--	101.63	Peak	210.00	150	Horizontal	N/A
4**	5780.500	98.98	0.37	--	-98.98	AV	210.00	150	Horizontal	N/A
5	7331.500	54.95	2.81	74.0	19.05	Peak	311.00	150	Horizontal	Pass
5**	7331.500	43.85	2.81	54.0	10.15	AV	311.00	150	Horizontal	Pass
6	12538.150	50.43	-0.31	74.0	23.57	Peak	1.00	150	Horizontal	Pass
6**	12538.150	39.77	-0.31	54.0	14.23	AV	1.00	150	Horizontal	Pass

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

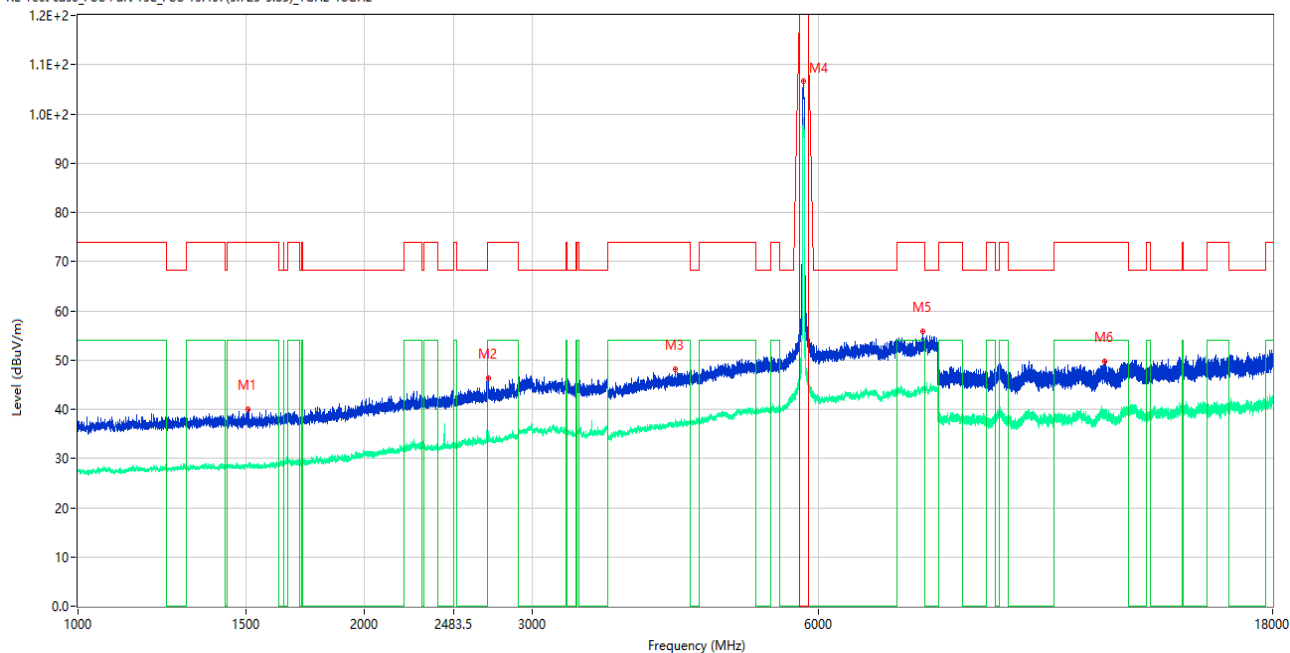
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1606.500	40.07	-15.23	74.0	33.93	Peak	261.00	150	Vertical	Pass
1**	1606.500	28.83	-15.23	54.0	25.17	AV	261.00	150	Vertical	Pass
2	2837.500	45.45	-7.72	74.0	28.55	Peak	312.00	150	Vertical	Pass
2**	2837.500	34.21	-7.72	54.0	19.79	AV	312.00	150	Vertical	Pass
3	4265.000	48.02	-2.75	74.0	25.98	Peak	179.00	150	Vertical	Pass
3**	4265.000	36.75	-2.75	54.0	17.25	AV	179.00	150	Vertical	Pass
4	5781.000	107.61	0.37	--	71.39	Peak	179.00	150	Vertical	N/A
4**	5781.000	99.38	0.37	--	-99.38	AV	179.00	150	Vertical	N/A
5	7338.000	54.97	3.07	74.0	19.03	Peak	260.00	150	Vertical	Pass
5**	7338.000	43.66	3.07	54.0	10.34	AV	260.00	150	Vertical	Pass
6	11903.787	49.60	-0.79	74.0	24.40	Peak	211.00	150	Vertical	Pass
6**	11903.787	39.71	-0.79	54.0	14.29	AV	211.00	150	Vertical	Pass

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

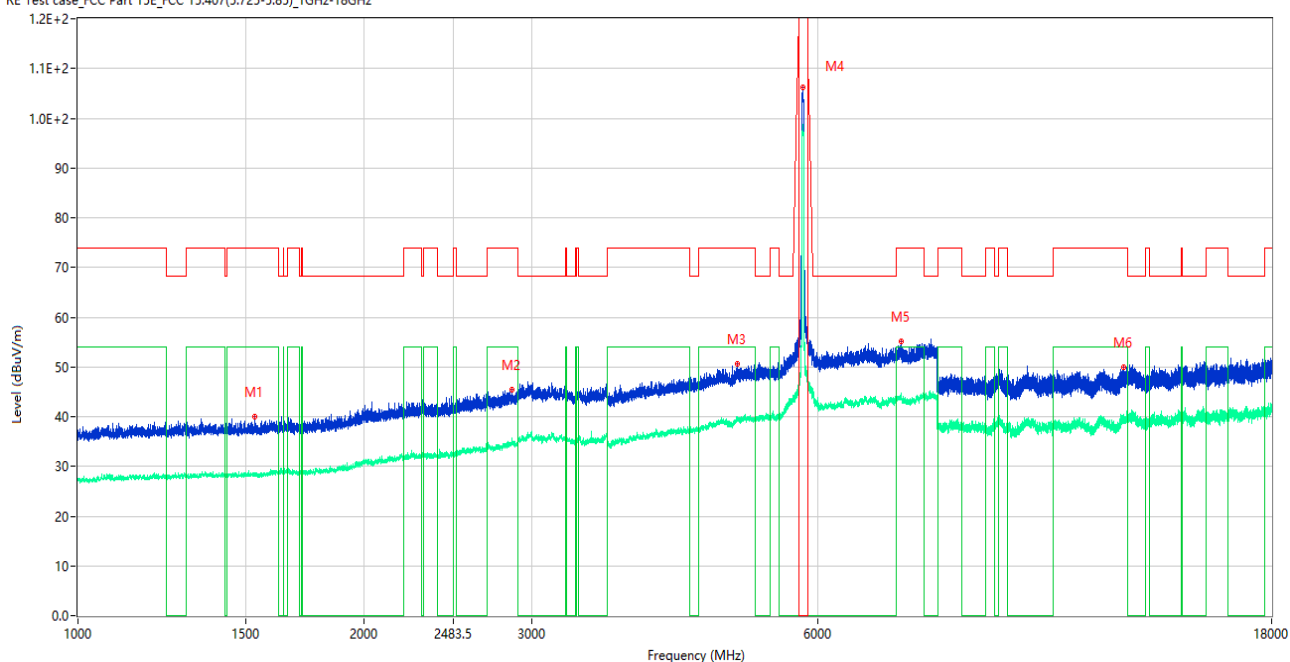
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1510.250	40.08	-15.25	74.0	33.92	Peak	7.00	150	Horizontal	Pass
1**	1510.250	28.73	-15.25	54.0	25.27	AV	7.00	150	Horizontal	Pass
2	2697.250	46.27	-9.11	74.0	27.73	Peak	135.00	150	Horizontal	Pass
2**	2697.250	35.21	-9.11	54.0	18.79	AV	135.00	150	Horizontal	Pass
3	4244.500	48.15	-2.49	74.0	25.85	Peak	188.00	150	Horizontal	Pass
3**	4244.500	36.89	-2.49	54.0	17.11	AV	188.00	150	Horizontal	Pass
4	5787.000	106.75	0.38	--	99.25	Peak	206.00	150	Horizontal	N/A
4**	5787.000	99.32	0.38	--	-99.32	AV	206.00	150	Horizontal	N/A
5	7730.000	55.85	3.11	74.0	18.15	Peak	19.00	150	Horizontal	Pass
5**	7730.000	43.87	3.11	54.0	10.13	AV	19.00	150	Horizontal	Pass
6	11980.026	49.63	-0.94	74.0	24.37	Peak	360.00	150	Horizontal	Pass
6**	11980.026	38.87	-0.94	54.0	15.13	AV	360.00	150	Horizontal	Pass

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

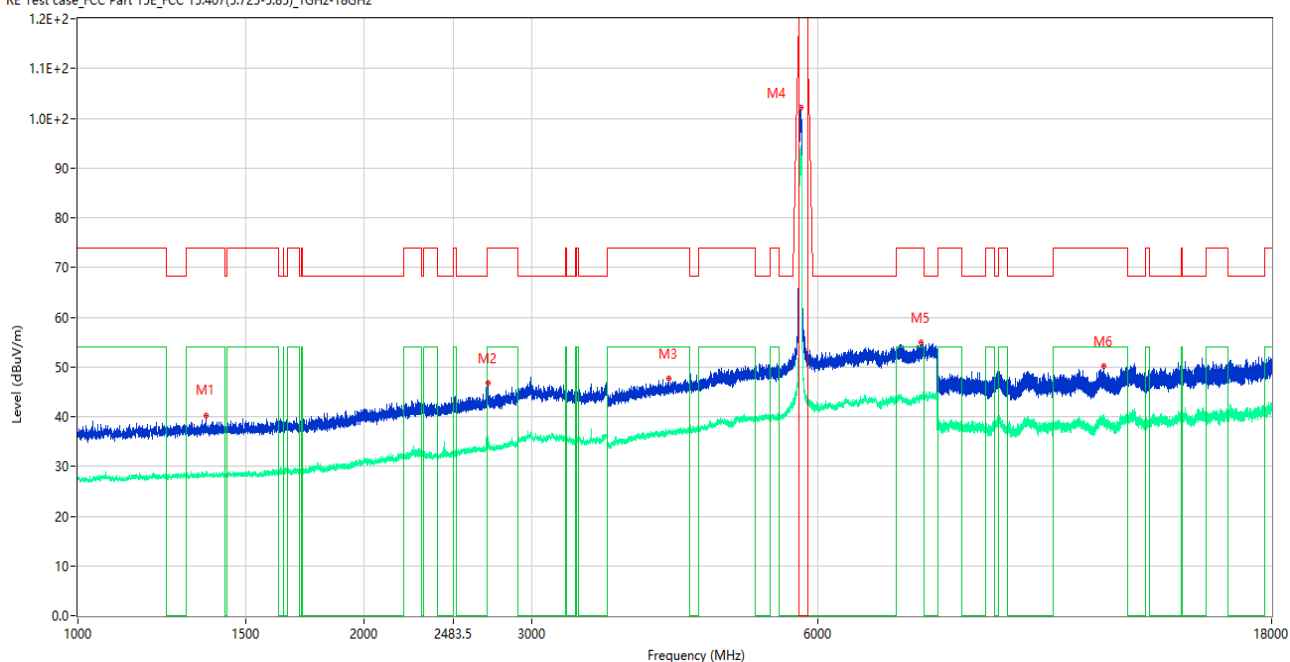
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1535.500	39.92	-15.42	74.0	34.08	Peak	255.00	150	Vertical	Pass
1**	1535.500	28.05	-15.42	54.0	25.95	AV	255.00	150	Vertical	Pass
2	2860.250	45.49	-7.57	74.0	28.51	Peak	151.00	150	Vertical	Pass
2**	2860.250	35.33	-7.57	54.0	18.67	AV	151.00	150	Vertical	Pass
3	4942.000	50.64	-0.53	74.0	23.36	Peak	259.00	150	Vertical	Pass
3**	4942.000	39.63	-0.53	54.0	14.37	AV	259.00	150	Vertical	Pass
4	5783.500	106.13	0.33	--	74.87	Peak	181.00	150	Vertical	N/A
4**	5783.500	98.61	0.33	--	-98.61	AV	181.00	150	Vertical	N/A
5	7345.000	55.04	3.16	74.0	18.96	Peak	331.00	150	Vertical	Pass
5**	7345.000	44.04	3.16	54.0	9.96	AV	331.00	150	Vertical	Pass
6	12593.724	49.89	-0.39	74.0	24.11	Peak	211.00	150	Vertical	Pass
6**	12593.724	39.12	-0.39	54.0	14.88	AV	211.00	150	Vertical	Pass

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

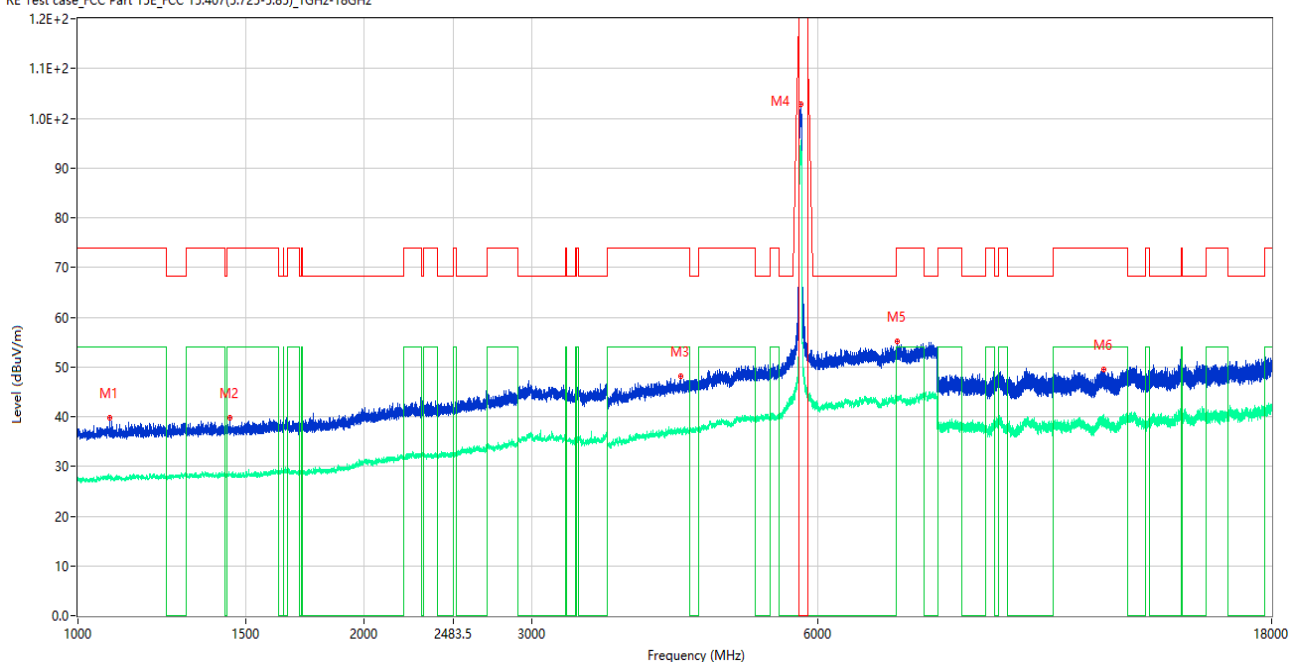
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1363.750	40.33	-15.43	74.0	33.67	Peak	120.00	150	Horizontal	Pass
1**	1363.750	28.21	-15.43	54.0	25.79	AV	120.00	150	Horizontal	Pass
2	2699.000	46.72	-9.17	74.0	27.28	Peak	129.00	150	Horizontal	Pass
2**	2699.000	35.32	-9.17	54.0	18.68	AV	129.00	150	Horizontal	Pass
3	4184.500	47.68	-3.02	74.0	26.32	Peak	112.00	150	Horizontal	Pass
3**	4184.500	36.94	-3.02	54.0	17.06	AV	112.00	150	Horizontal	Pass
4	5757.000	102.12	0.04	--	120.88	Peak	223.00	150	Horizontal	N/A
4**	5757.000	94.45	0.04	--	-94.45	AV	223.00	150	Horizontal	N/A
5	7703.000	54.86	3.78	74.0	19.14	Peak	334.00	150	Horizontal	Pass
5**	7703.000	43.95	3.78	54.0	10.05	AV	334.00	150	Horizontal	Pass
6	12001.162	50.16	-0.98	74.0	23.84	Peak	360.00	150	Horizontal	Pass
6**	12001.162	38.52	-0.98	54.0	15.48	AV	360.00	150	Horizontal	Pass

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

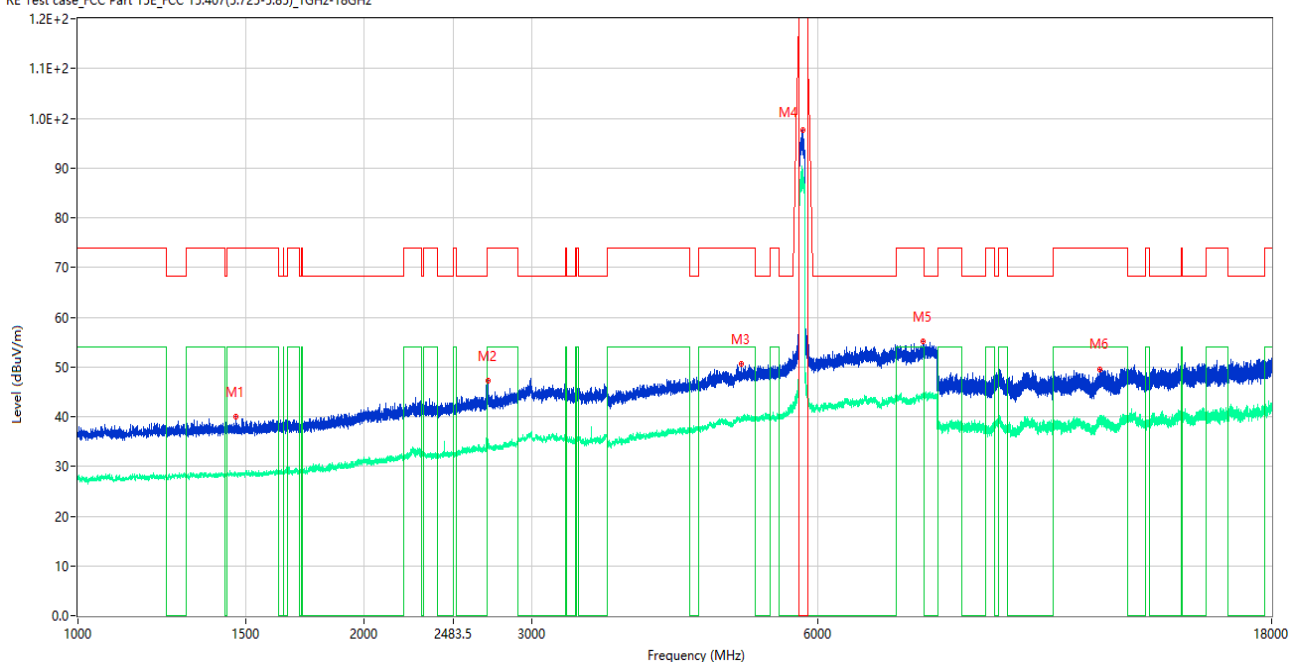
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1080.250	39.76	-15.59	74.0	34.24	Peak	194.00	150	Vertical	Pass
1**	1080.250	27.57	-15.59	54.0	26.43	AV	194.00	150	Vertical	Pass
2	1446.000	39.67	-15.32	74.0	34.33	Peak	96.00	150	Vertical	Pass
2**	1446.000	28.31	-15.32	54.0	25.69	AV	96.00	150	Vertical	Pass
3	4306.500	48.08	-2.73	74.0	25.92	Peak	221.00	150	Vertical	Pass
3**	4306.500	36.95	-2.73	54.0	17.05	AV	221.00	150	Vertical	Pass
4	5758.500	102.79	0.06	--	98.21	Peak	201.00	150	Vertical	N/A
4**	5758.500	95.03	0.06	--	-95.03	AV	201.00	150	Vertical	N/A
5	7270.000	55.17	2.43	74.0	18.83	Peak	181.00	150	Vertical	Pass
5**	7270.000	43.77	2.43	54.0	10.23	AV	181.00	150	Vertical	Pass
6	11997.838	49.57	-1.14	74.0	24.43	Peak	214.00	150	Vertical	Pass
6**	11997.838	38.23	-1.14	54.0	15.77	AV	214.00	150	Vertical	Pass

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

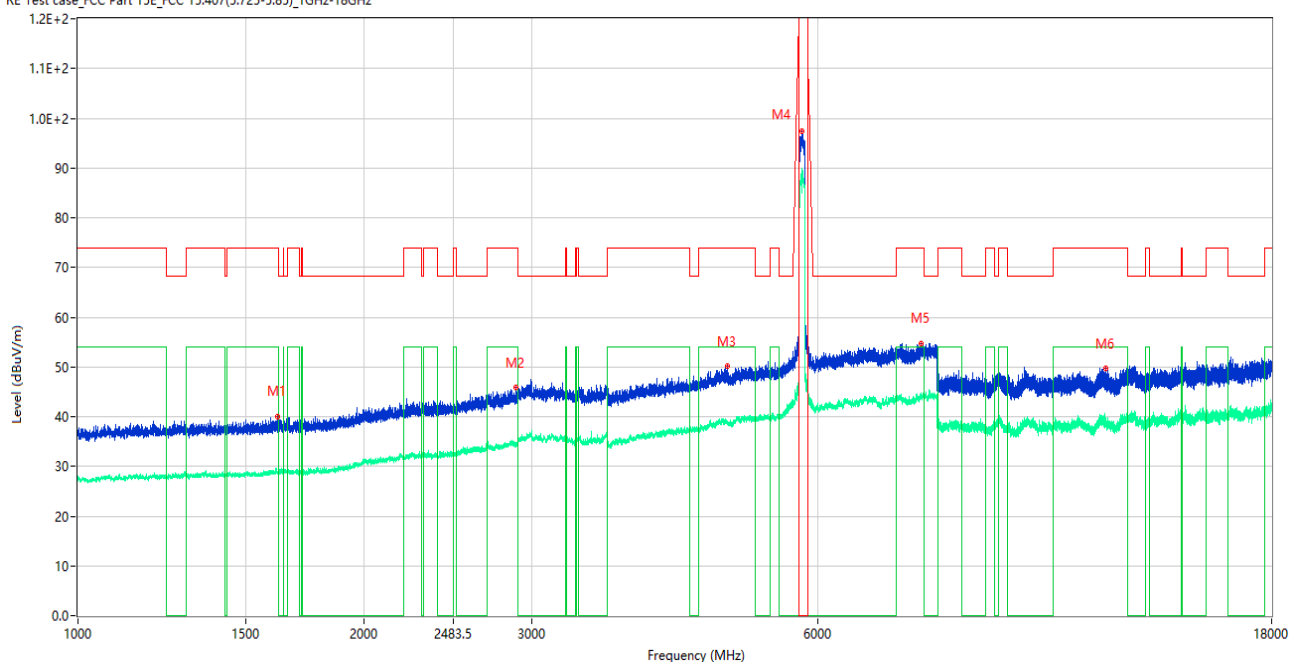
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1466.250	40.05	-15.49	74.0	33.95	Peak	235.00	150	Horizontal	Pass
1**	1466.250	28.40	-15.49	54.0	25.60	AV	235.00	150	Horizontal	Pass
2	2698.500	47.13	-9.15	74.0	26.87	Peak	138.00	150	Horizontal	Pass
2**	2698.500	35.37	-9.15	54.0	18.63	AV	138.00	150	Horizontal	Pass
3	4984.000	50.54	-1.16	74.0	23.46	Peak	0.00	150	Horizontal	Pass
3**	4984.000	39.60	-1.16	54.0	14.40	AV	0.00	150	Horizontal	Pass
4	5781.500	97.74	0.35	--	114.26	Peak	212.00	150	Horizontal	N/A
4**	5781.500	86.57	0.35	--	-86.57	AV	212.00	150	Horizontal	N/A
5	7735.000	55.17	3.21	74.0	18.83	Peak	131.00	150	Horizontal	Pass
5**	7735.000	44.31	3.21	54.0	9.69	AV	131.00	150	Horizontal	Pass
6	11864.600	49.58	-1.08	74.0	24.42	Peak	284.00	150	Horizontal	Pass
6**	11864.600	38.62	-1.08	54.0	15.38	AV	284.00	150	Horizontal	Pass

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

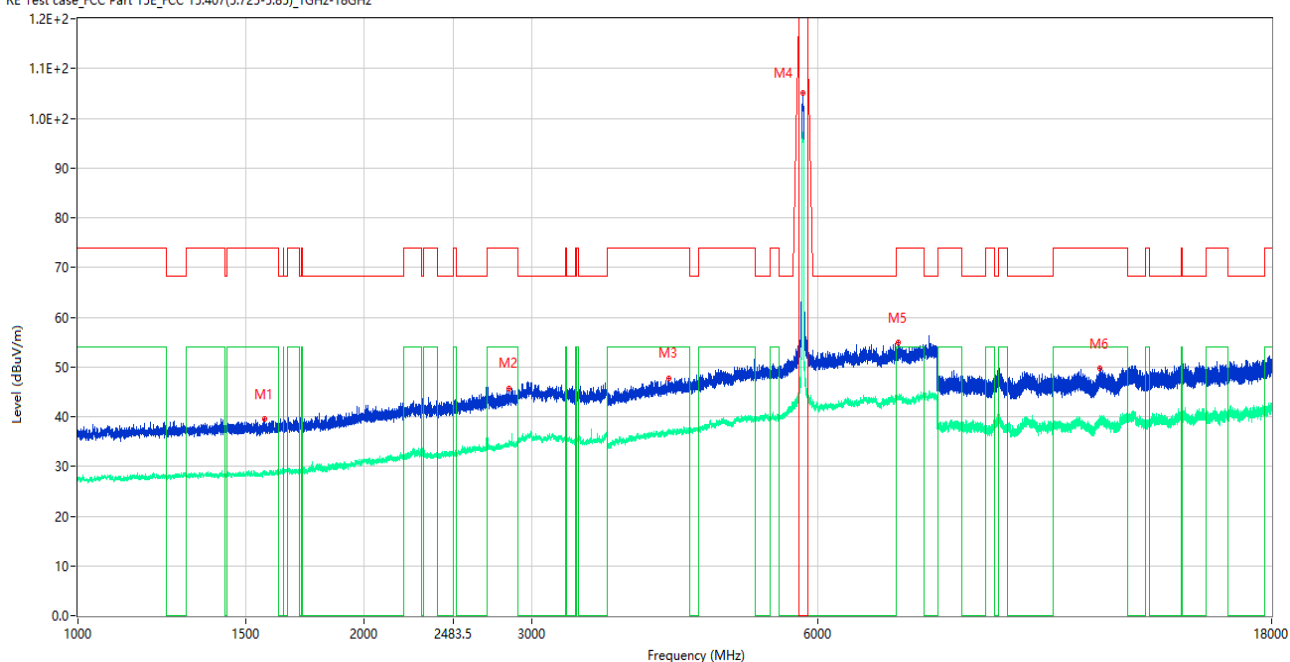
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1623.250	40.09	-15.24	74.0	33.91	Peak	74.00	150	Vertical	Pass
1**	1623.250	28.82	-15.24	54.0	25.18	AV	74.00	150	Vertical	Pass
2	2888.750	45.89	-7.98	74.0	28.11	Peak	360.00	150	Vertical	Pass
2**	2888.750	34.37	-7.98	54.0	19.63	AV	360.00	150	Vertical	Pass
3	4814.000	50.17	-1.31	74.0	23.83	Peak	98.00	150	Vertical	Pass
3**	4814.000	38.64	-1.31	54.0	15.36	AV	98.00	150	Vertical	Pass
4	5777.500	97.33	0.38	--	82.67	Peak	180.00	150	Vertical	N/A
4**	5777.500	89.34	0.38	--	-89.34	AV	180.00	150	Vertical	N/A
5	7696.500	54.67	3.63	74.0	19.33	Peak	59.00	150	Vertical	Pass
5**	7696.500	44.13	3.63	54.0	9.87	AV	59.00	150	Vertical	Pass
6	12052.700	49.78	-1.04	74.0	24.22	Peak	284.00	150	Vertical	Pass
6**	12052.700	38.88	-1.04	54.0	15.12	AV	284.00	150	Vertical	Pass

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

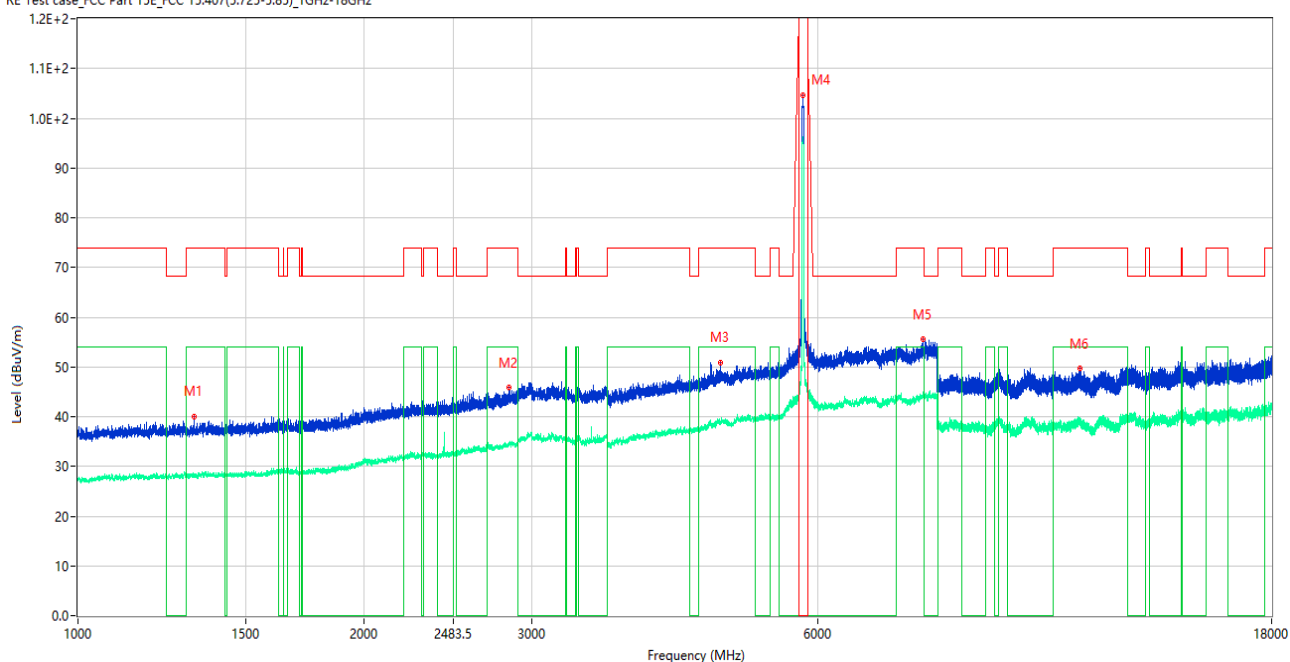
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1571.750	39.45	-15.27	74.0	34.55	Peak	191.00	150	Horizontal	Pass
1**	1571.750	28.51	-15.27	54.0	25.49	AV	191.00	150	Horizontal	Pass
2	2839.750	45.71	-7.60	74.0	28.29	Peak	300.00	150	Horizontal	Pass
2**	2839.750	34.35	-7.60	54.0	19.65	AV	300.00	150	Horizontal	Pass
3	4179.500	47.79	-3.09	74.0	26.21	Peak	12.00	150	Horizontal	Pass
3**	4179.500	36.95	-3.09	54.0	17.05	AV	12.00	150	Horizontal	Pass
4	5786.000	104.98	0.38	--	107.02	Peak	212.00	150	Horizontal	N/A
4**	5786.000	96.93	0.38	--	-96.93	AV	212.00	150	Horizontal	N/A
5	7282.000	54.90	2.52	74.0	19.10	Peak	0.00	150	Horizontal	Pass
5**	7282.000	43.93	2.52	54.0	10.07	AV	0.00	150	Horizontal	Pass
6	11869.587	49.66	-0.67	74.0	24.34	Peak	90.00	150	Horizontal	Pass
6**	11869.587	38.86	-0.67	54.0	15.14	AV	90.00	150	Horizontal	Pass

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

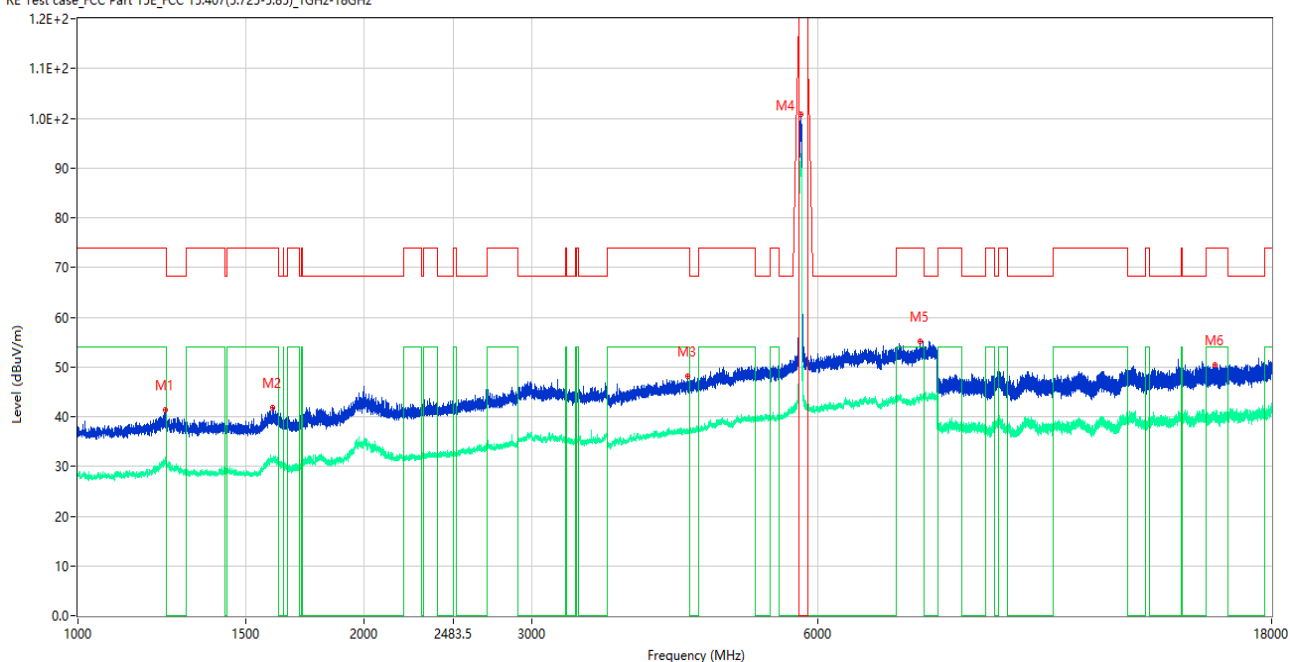
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1324.000	40.10	-15.44	74.0	33.90	Peak	197.00	150	Vertical	Pass
1**	1324.000	28.21	-15.44	54.0	25.79	AV	197.00	150	Vertical	Pass
2	2841.500	45.84	-7.56	74.0	28.16	Peak	37.00	150	Vertical	Pass
2**	2841.500	34.48	-7.56	54.0	19.52	AV	37.00	150	Vertical	Pass
3	4733.500	50.95	-1.96	74.0	23.05	Peak	0.00	150	Vertical	Pass
3**	4733.500	38.31	-1.96	54.0	15.69	AV	0.00	150	Vertical	Pass
4	5790.000	104.71	0.35	--	76.29	Peak	181.00	150	Vertical	N/A
4**	5790.000	95.25	0.35	--	-95.25	AV	181.00	150	Vertical	N/A
5	7742.500	55.50	3.40	74.0	18.50	Peak	0.00	150	Vertical	Pass
5**	7742.500	44.16	3.40	54.0	9.84	AV	0.00	150	Vertical	Pass
6	11311.225	49.63	-1.40	74.0	24.37	Peak	0.00	150	Vertical	Pass
6**	11311.225	38.63	-1.40	54.0	15.37	AV	0.00	150	Vertical	Pass

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

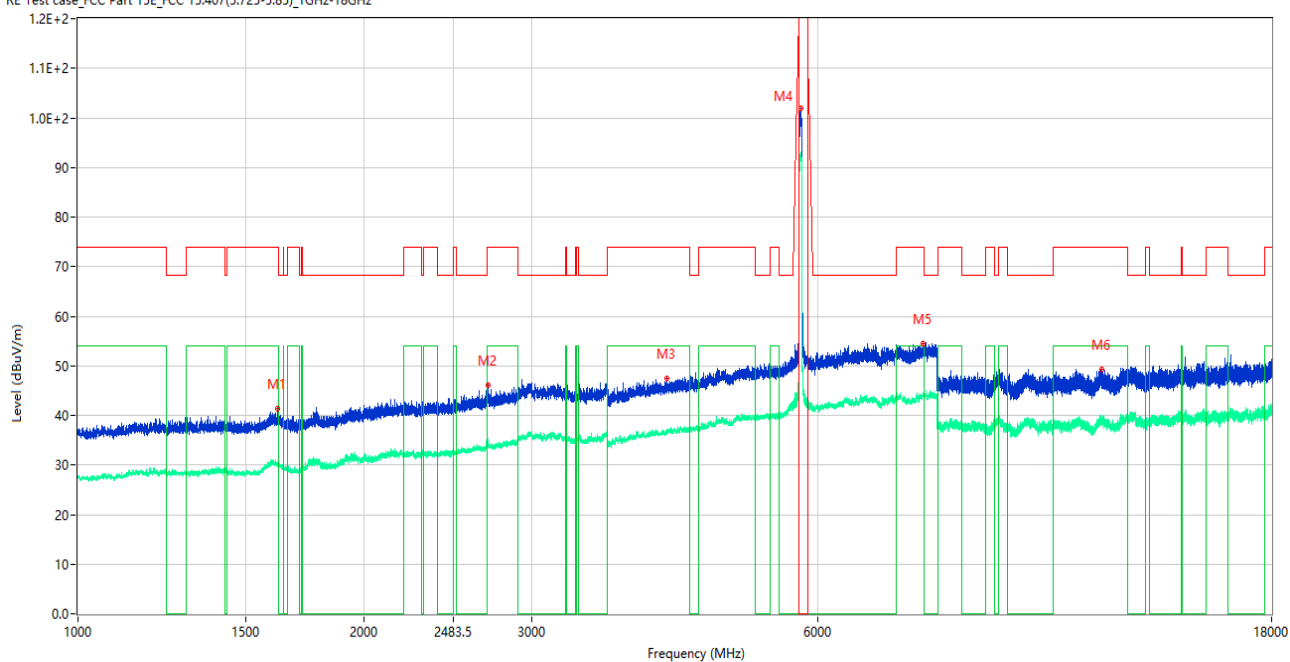
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1234.500	41.33	-15.52	74.0	32.67	Peak	231.00	150	Horizontal	Pass
1**	1234.500	31.22	-15.52	54.0	22.78	AV	231.00	150	Horizontal	Pass
2	1602.250	41.83	-15.25	74.0	32.17	Peak	253.00	150	Horizontal	Pass
2**	1602.250	31.60	-15.25	54.0	22.40	AV	253.00	150	Horizontal	Pass
3	4376.500	48.20	-2.78	74.0	25.80	Peak	0.00	150	Horizontal	Pass
3**	4376.500	37.26	-2.78	54.0	16.74	AV	0.00	150	Horizontal	Pass
4	5757.500	100.86	0.04	--	-20.86	Peak	80.00	150	Horizontal	N/A
4**	5757.500	92.57	0.04	--	-92.57	AV	80.00	150	Horizontal	N/A
5	7690.000	55.07	3.39	74.0	18.93	Peak	119.00	150	Horizontal	Pass
5**	7690.000	44.49	3.39	54.0	9.51	AV	119.00	150	Horizontal	Pass
6	15712.575	50.31	1.39	74.0	23.69	Peak	353.00	150	Horizontal	Pass
6**	15712.575	40.11	1.39	54.0	13.89	AV	353.00	150	Horizontal	Pass

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

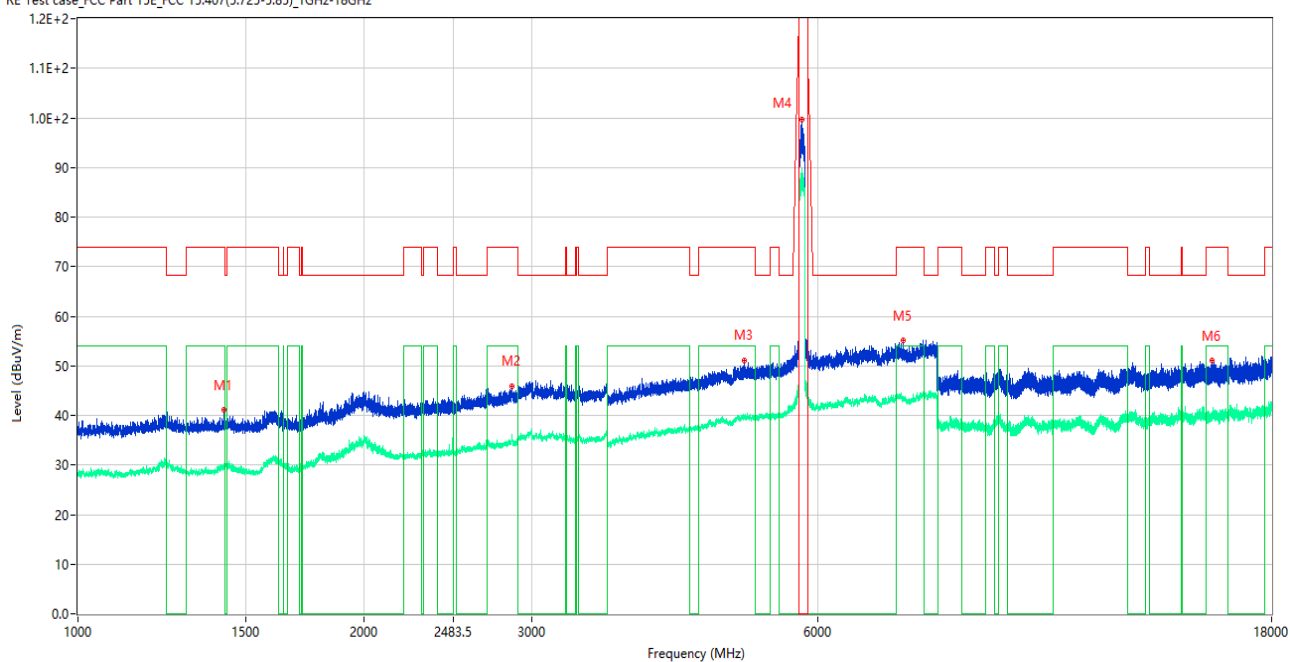
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1622.750	41.37	-15.24	74.0	32.63	Peak	175.00	150	Vertical	Pass
1**	1622.750	30.17	-15.24	54.0	23.83	AV	175.00	150	Vertical	Pass
2	2696.500	46.04	-9.08	74.0	27.96	Peak	215.00	150	Vertical	Pass
2**	2696.500	35.08	-9.08	54.0	18.92	AV	215.00	150	Vertical	Pass
3	4164.000	47.54	-3.61	74.0	26.46	Peak	0.00	150	Vertical	Pass
3**	4164.000	36.62	-3.61	54.0	17.38	AV	0.00	150	Vertical	Pass
4	5763.500	101.99	0.17	--	50.01	Peak	152.00	150	Vertical	N/A
4**	5763.500	92.59	0.17	--	-92.59	AV	152.00	150	Vertical	N/A
5	7736.000	54.52	3.25	74.0	19.48	Peak	283.00	150	Vertical	Pass
5**	7736.000	44.05	3.25	54.0	9.95	AV	283.00	150	Vertical	Pass
6	11919.700	49.33	-1.48	74.0	24.67	Peak	261.00	150	Vertical	Pass
6**	11919.700	38.64	-1.48	54.0	15.36	AV	261.00	150	Vertical	Pass

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

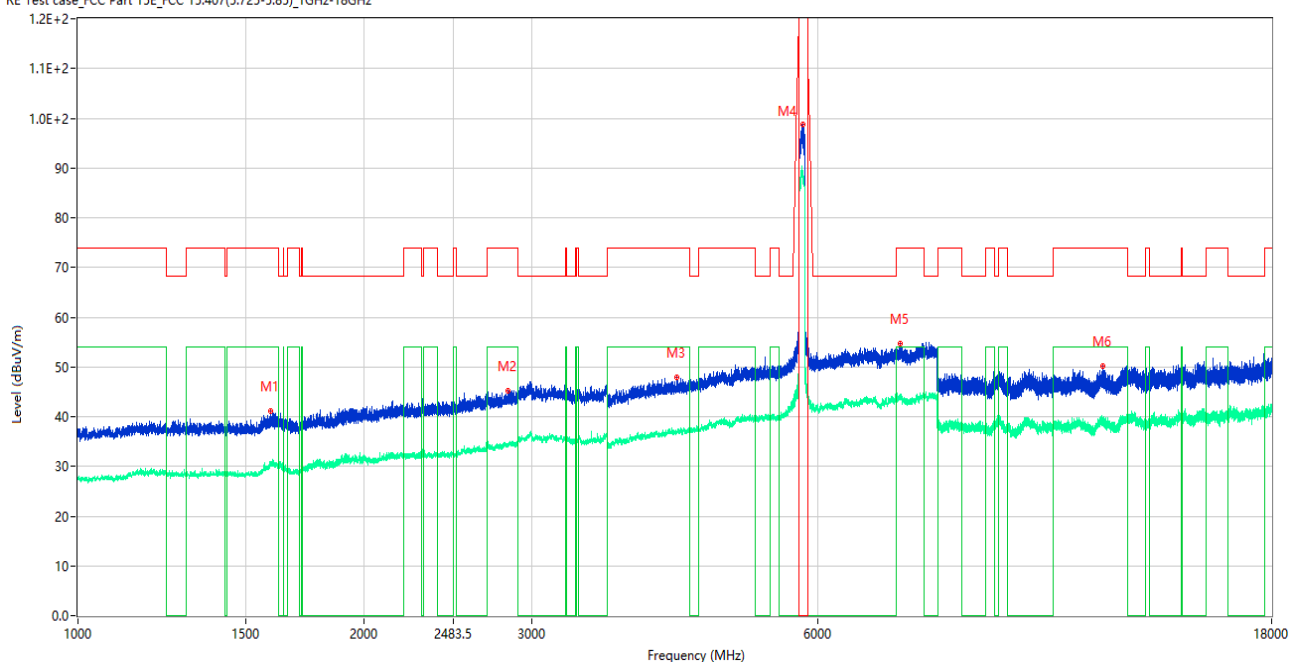
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1425.250	41.14	-15.47	74.0	32.86	Peak	270.00	150	Horizontal	Pass
1**	1425.250	29.58	-15.47	54.0	24.42	AV	270.00	150	Horizontal	Pass
2	2859.500	45.93	-7.61	74.0	28.07	Peak	140.00	150	Horizontal	Pass
2**	2859.500	35.25	-7.61	54.0	18.75	AV	140.00	150	Horizontal	Pass
3	5026.000	51.06	-0.74	74.0	22.94	Peak	352.00	150	Horizontal	Pass
3**	5026.000	39.94	-0.74	54.0	14.06	AV	352.00	150	Horizontal	Pass
4	5767.500	99.77	0.40	--	9.23	Peak	109.00	150	Horizontal	N/A
4**	5767.500	89.61	0.40	--	-89.61	AV	109.00	150	Horizontal	N/A
5	7378.500	55.16	2.41	74.0	18.84	Peak	181.00	150	Horizontal	Pass
5**	7378.500	43.67	2.41	54.0	10.33	AV	181.00	150	Horizontal	Pass
6	15576.075	51.15	0.29	74.0	22.85	Peak	47.00	150	Horizontal	Pass
6**	15576.075	39.81	0.29	54.0	14.19	AV	47.00	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	1593.250	41.15	-15.37	74.0	32.85	Peak	2.00	150	Vertical	Pass
1**	1593.250	30.17	-15.37	54.0	23.83	AV	2.00	150	Vertical	Pass
2	2835.500	45.21	-7.85	74.0	28.79	Peak	174.00	150	Vertical	Pass
2**	2835.500	34.21	-7.85	54.0	19.79	AV	174.00	150	Vertical	Pass
3	4258.500	47.85	-3.07	74.0	26.15	Peak	32.00	150	Vertical	Pass
3**	4258.500	36.63	-3.07	54.0	17.37	AV	32.00	150	Vertical	Pass
4	5781.500	98.82	0.35	--	53.18	Peak	152.00	150	Vertical	N/A
4**	5781.500	88.81	0.35	--	-88.81	AV	152.00	150	Vertical	N/A
5	7318.500	54.62	2.64	74.0	19.38	Peak	359.00	150	Vertical	Pass
5**	7318.500	43.72	2.64	54.0	10.28	AV	359.00	150	Vertical	Pass
6	11967.674	50.08	-1.01	74.0	23.92	Peak	360.00	150	Vertical	Pass
6**	11967.674	39.71	-1.01	54.0	14.29	AV	360.00	150	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

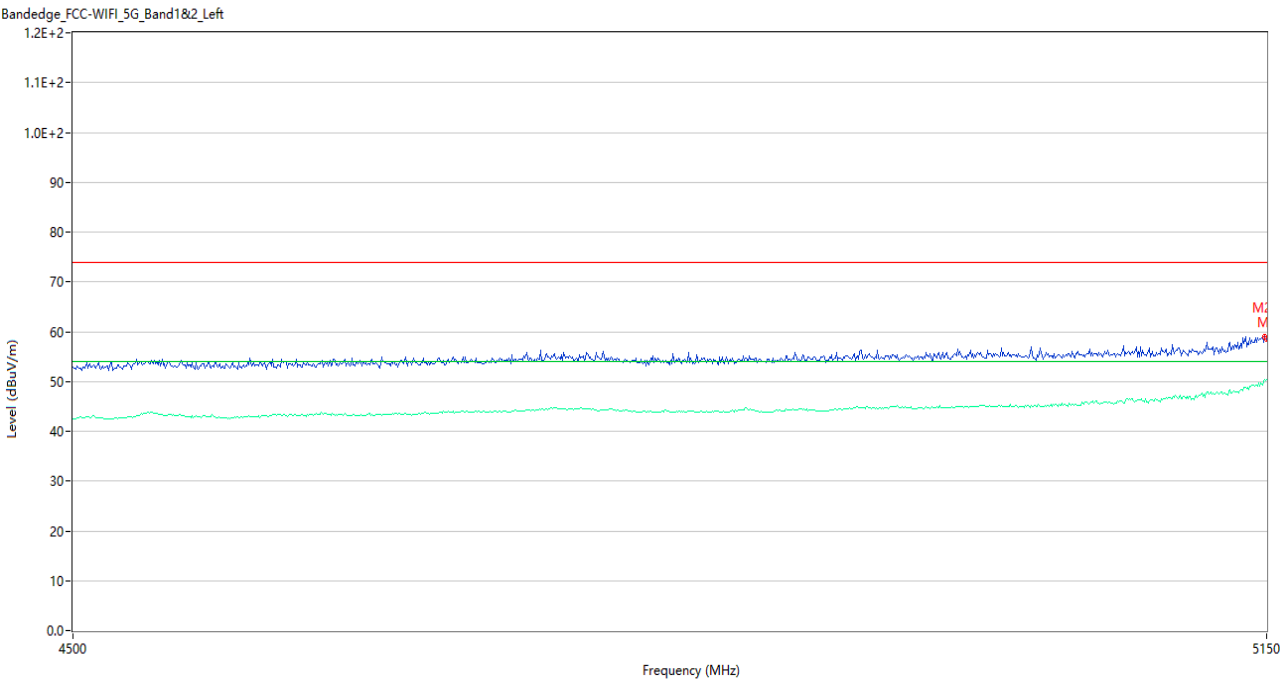
Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
	802.11ax(HE20) (SU)	Low	Pass
		High	Pass
U-NII-2A	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
	802.11ax(HE20) (SU)	Low	Pass
		High	Pass
U-NII-2C	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass

Test Band	Mode	Channel	Verdict
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Low	Pass
		High	Pass
	802.11ax(HE20) (SU)	Low	Pass
		High	Pass
	802.11ax(HE40) (SU)	Low	Pass
		High	Pass
	802.11ax(HE80) (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:

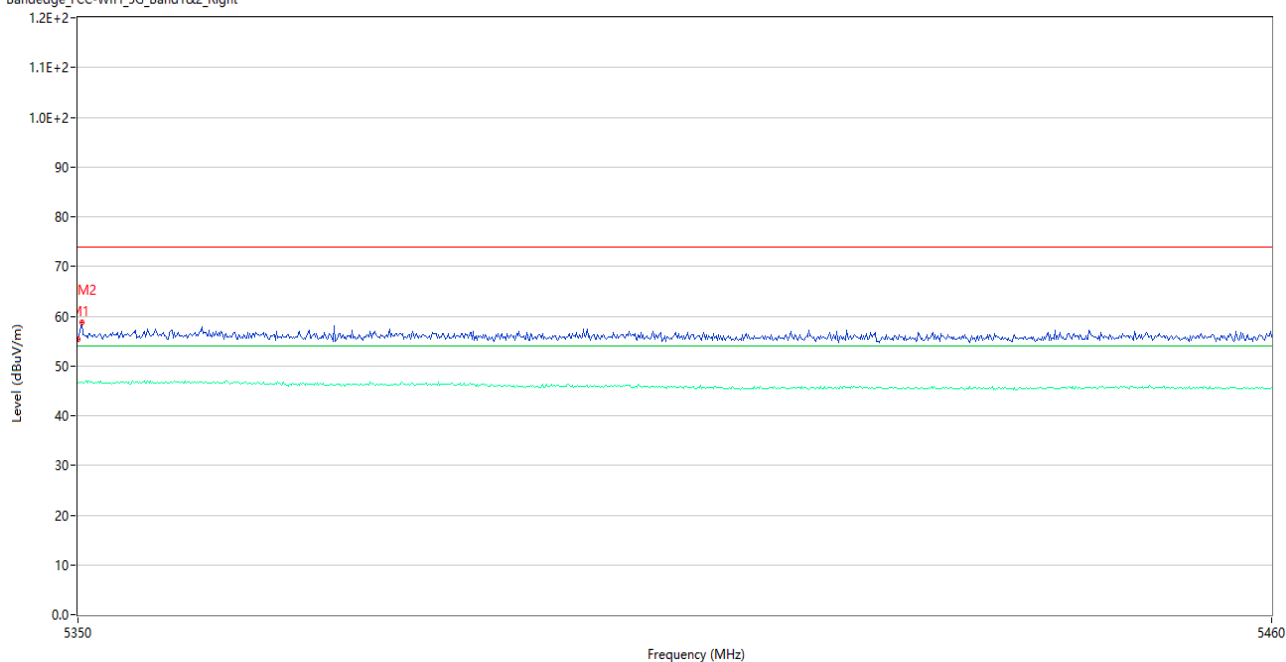
U-NII-1 11a CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.53	5.21	74.0	15.47	Peak	235.00	150	Horizontal	Pass
1**	5150.000	50.34	5.21	54.0	3.66	AV	235.00	150	Horizontal	Pass
2	5148.700	59.05	5.23	74.0	14.95	Peak	231.00	150	Horizontal	Pass
2**	5148.700	50.41	5.23	54.0	3.59	AV	231.00	150	Horizontal	Pass

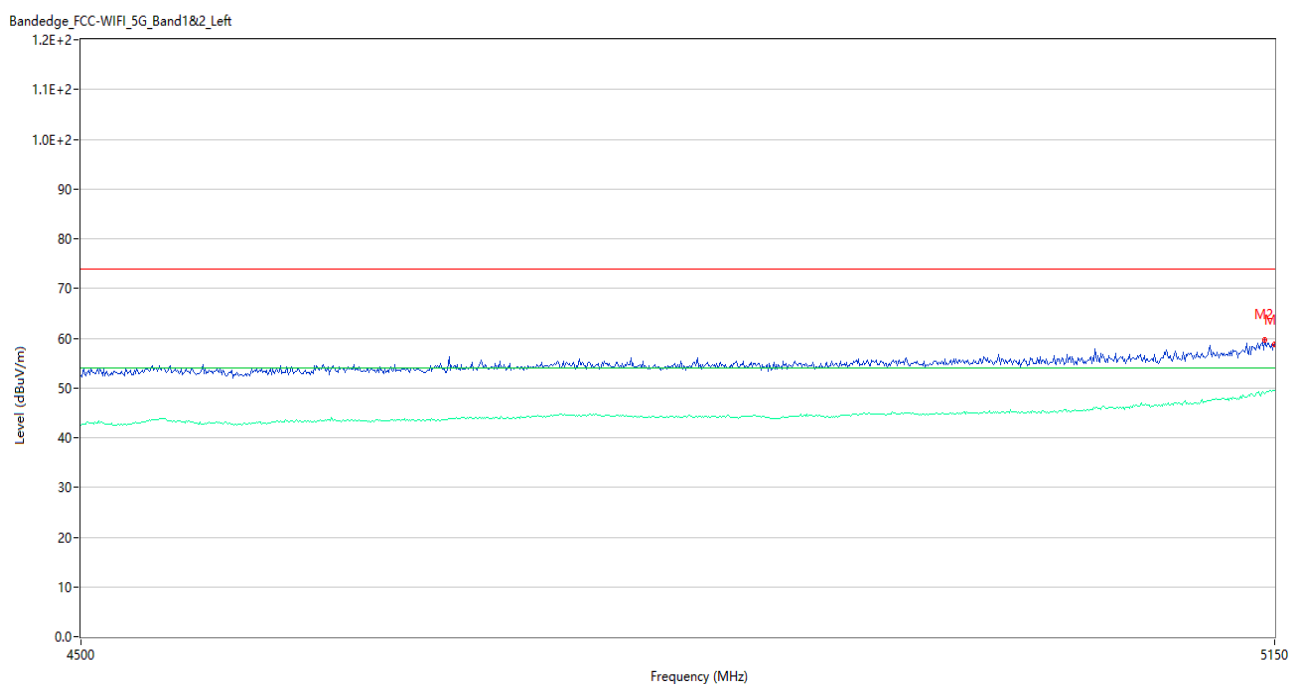
U-NII-1 11a CH48

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	55.39	5.40	74.0	18.61	Peak	212.00	150	Horizontal	Pass
1**	5350.000	46.65	5.40	54.0	7.35	AV	212.00	150	Horizontal	Pass
2	5350.330	58.71	5.41	74.0	15.29	Peak	216.00	150	Horizontal	Pass
2**	5350.330	46.84	5.41	54.0	7.16	AV	216.00	150	Horizontal	Pass

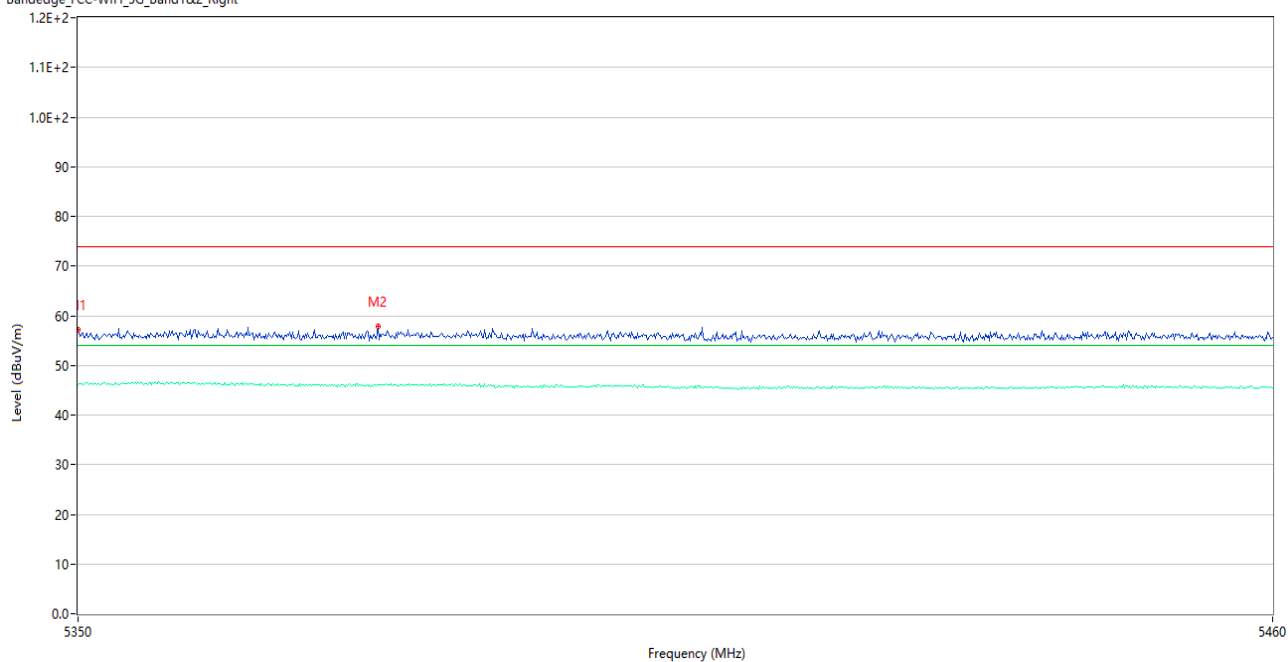
U-NII-1 11ac20 CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.82	5.21	74.0	15.18	Peak	240.00	150	Horizontal	Pass
1**	5150.000	49.54	5.21	54.0	4.46	AV	240.00	150	Horizontal	Pass
2	5144.150	59.76	5.42	74.0	14.24	Peak	236.00	150	Horizontal	Pass
2**	5144.150	48.77	5.42	54.0	5.23	AV	236.00	150	Horizontal	Pass

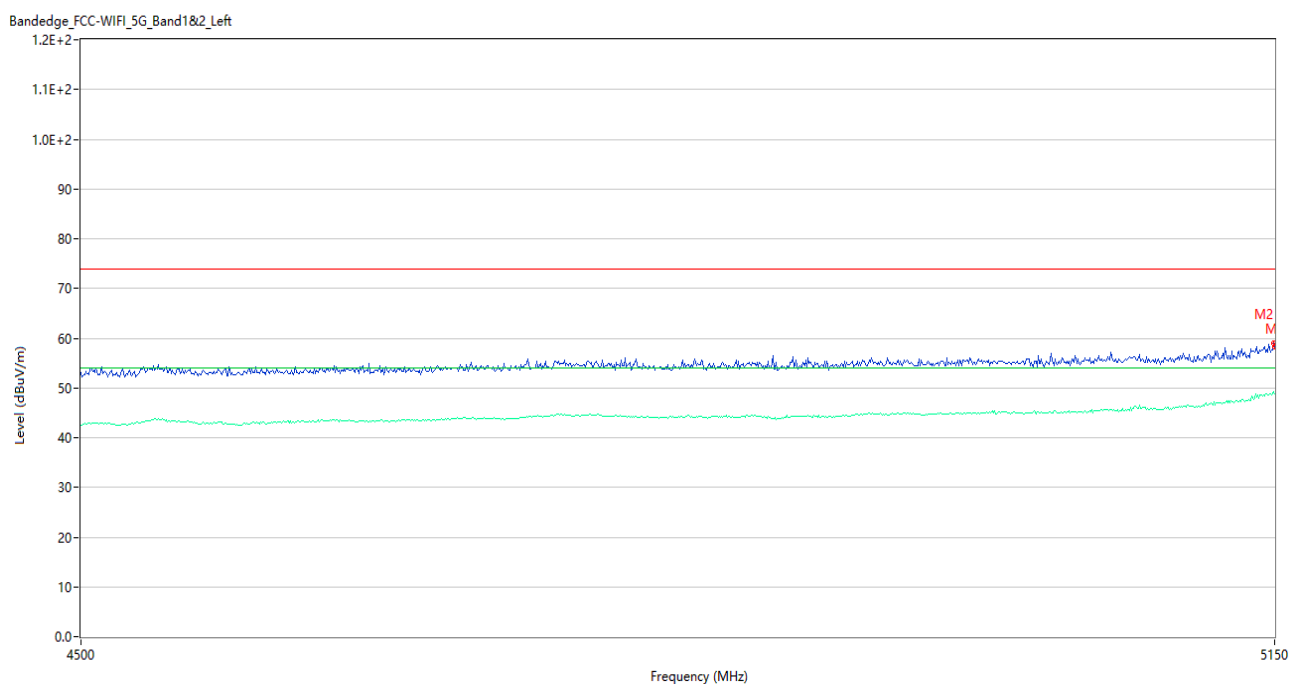
U-NII-1 11ac20 CH48

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	57.15	5.40	74.0	16.85	Peak	212.00	150	Horizontal	Pass
1**	5350.000	46.19	5.40	54.0	7.81	AV	212.00	150	Horizontal	Pass
2	5377.390	57.78	5.60	74.0	16.22	Peak	169.00	150	Horizontal	Pass
2**	5377.390	46.06	5.60	54.0	7.94	AV	169.00	150	Horizontal	Pass

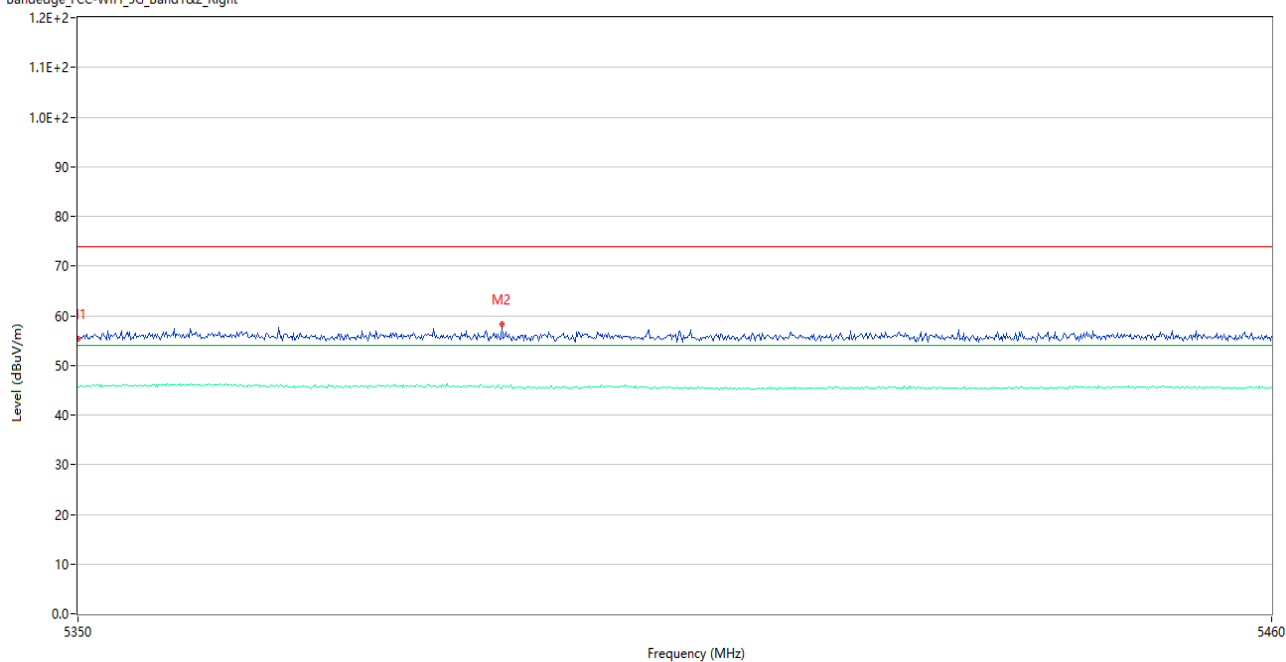
U-NII-1 11ac40 CH38



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.29	5.21	74.0	15.71	Peak	232.00	150	Horizontal	Pass
1**	5150.000	48.90	5.21	54.0	5.10	AV	232.00	150	Horizontal	Pass
2	5149.350	59.07	5.21	74.0	14.93	Peak	236.00	150	Horizontal	Pass
2**	5149.350	49.17	5.21	54.0	4.83	AV	236.00	150	Horizontal	Pass

U-NII-1 11ac40 CH46

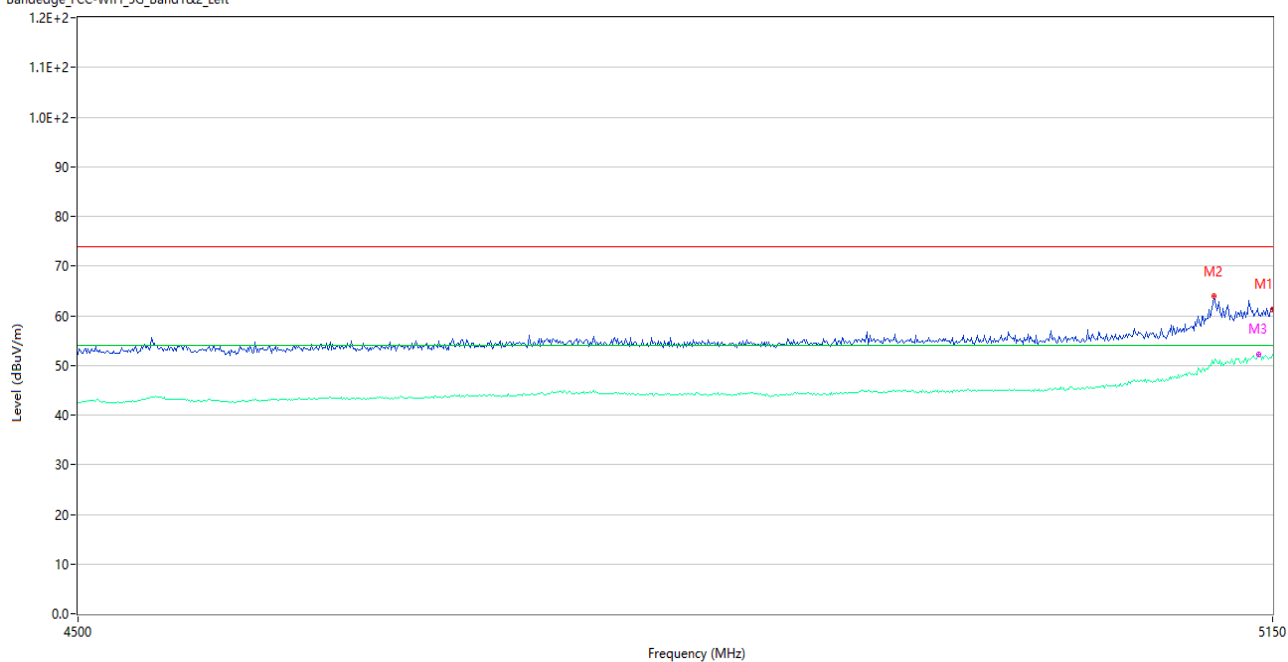
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.42	5.40	74.0	18.58	Peak	48.00	150	Horizontal	Pass
1**	5350.000	45.72	5.40	54.0	8.28	AV	48.00	150	Horizontal	Pass
2	5388.830	58.19	5.54	74.0	15.81	Peak	193.00	150	Horizontal	Pass
2**	5388.830	45.45	5.54	54.0	8.55	AV	193.00	150	Horizontal	Pass

U-NII-1 11ac80 CH42

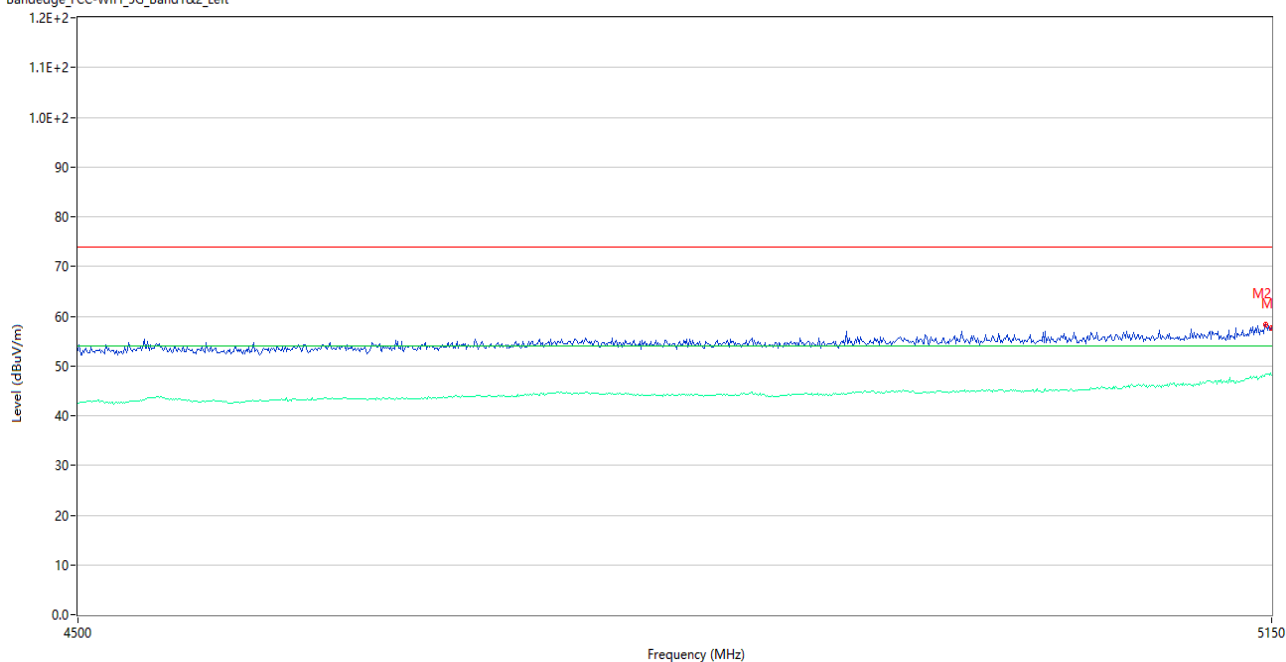
Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	61.19	5.21	74.0	12.81	Peak	228.00	150	Horizontal	Pass
1**	5150.000	52.11	5.21	54.0	1.89	AV	228.00	150	Horizontal	Pass
2	5116.200	63.88	5.17	74.0	10.12	Peak	236.00	150	Horizontal	Pass
2**	5116.200	50.39	5.17	54.0	3.61	AV	236.00	150	Horizontal	Pass
3	5142.200	60.07	5.51	74.0	13.93	Peak	236.00	150	Horizontal	Pass
3**	5142.200	52.31	5.51	54.0	1.69	AV	236.00	150	Horizontal	Pass

U-NII-1 11ax20 (SU) CH36

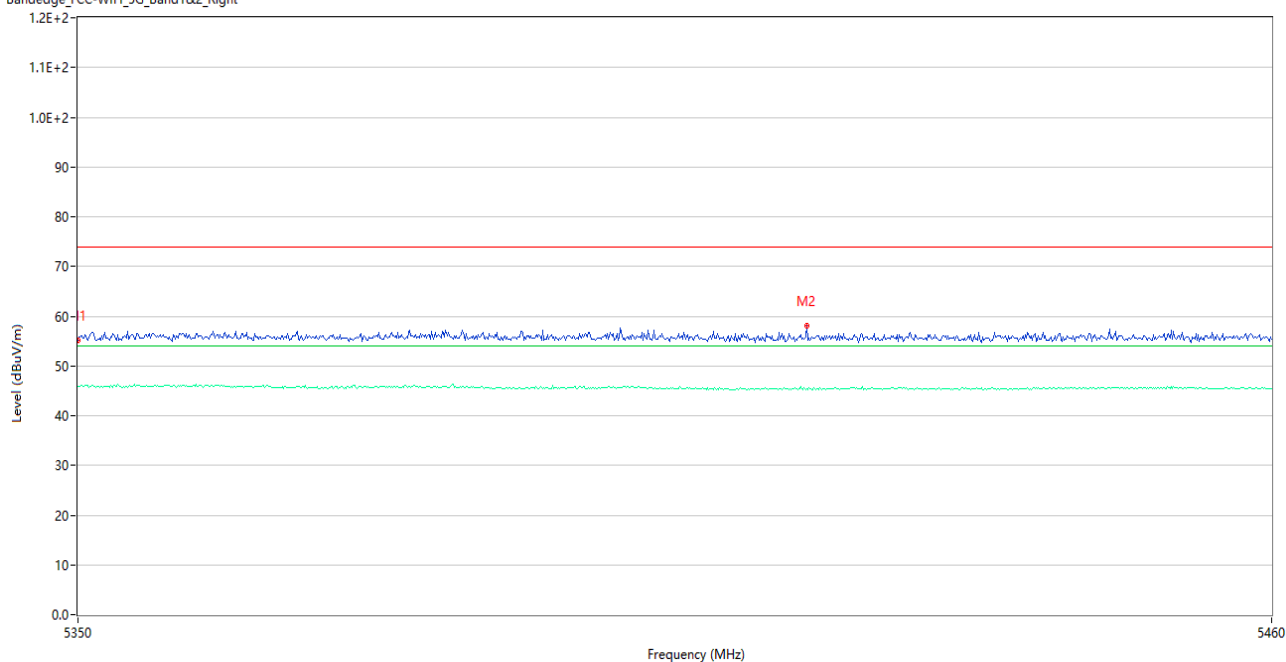
Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	57.58	5.21	74.0	16.42	Peak	234.99	150	Horizontal	Pass
1**	5150.000	48.19	5.21	54.0	5.81	AV	234.99	150	Horizontal	Pass
2	5146.750	58.35	5.33	74.0	15.65	Peak	239.00	150	Horizontal	Pass
2**	5146.750	48.43	5.33	54.0	5.57	AV	239.00	150	Horizontal	Pass

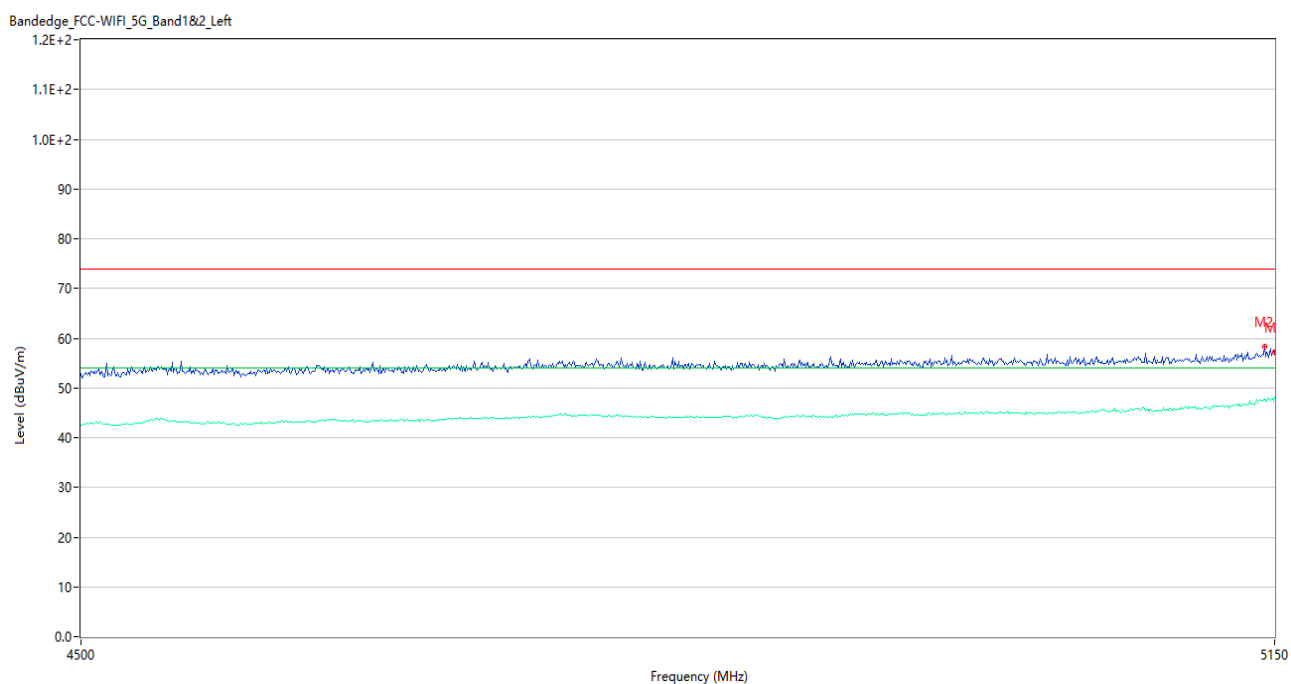
U-NII-1 11ax20 (SU) CH48

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	55.08	5.40	74.0	18.92	Peak	85.00	150	Horizontal	Pass
1**	5350.000	45.91	5.40	54.0	8.09	AV	85.00	150	Horizontal	Pass
2	5416.880	57.99	5.22	74.0	16.01	Peak	238.00	150	Horizontal	Pass
2**	5416.880	45.35	5.22	54.0	8.65	AV	238.00	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	57.09	5.21	74.0	16.91	Peak	232.00	150	Horizontal	Pass
1**	5150.000	48.16	5.21	54.0	5.84	AV	232.00	150	Horizontal	Pass
2	5144.150	58.28	5.42	74.0	15.72	Peak	203.00	150	Horizontal	Pass
2**	5144.150	47.74	5.42	54.0	6.26	AV	203.00	150	Horizontal	Pass

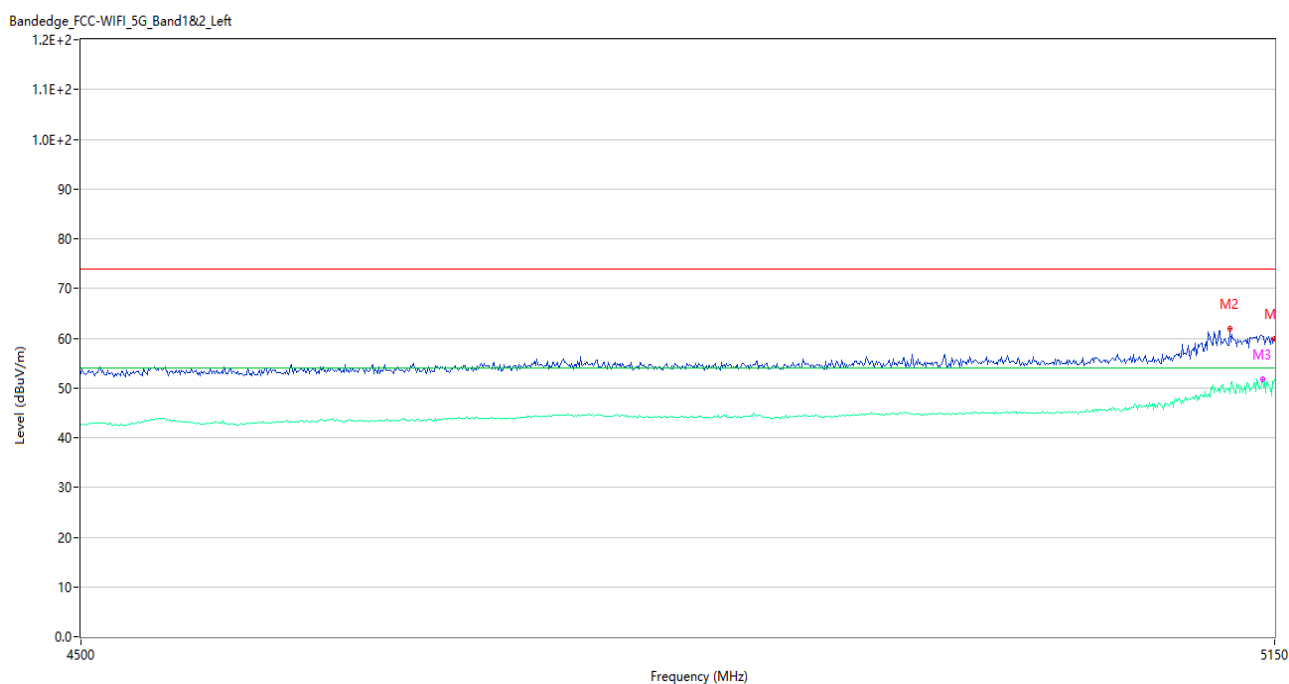
U-NII-1 11ax40 (SU) CH46

Bandedge_FCC-WIFI_5G_Band1&2_Right



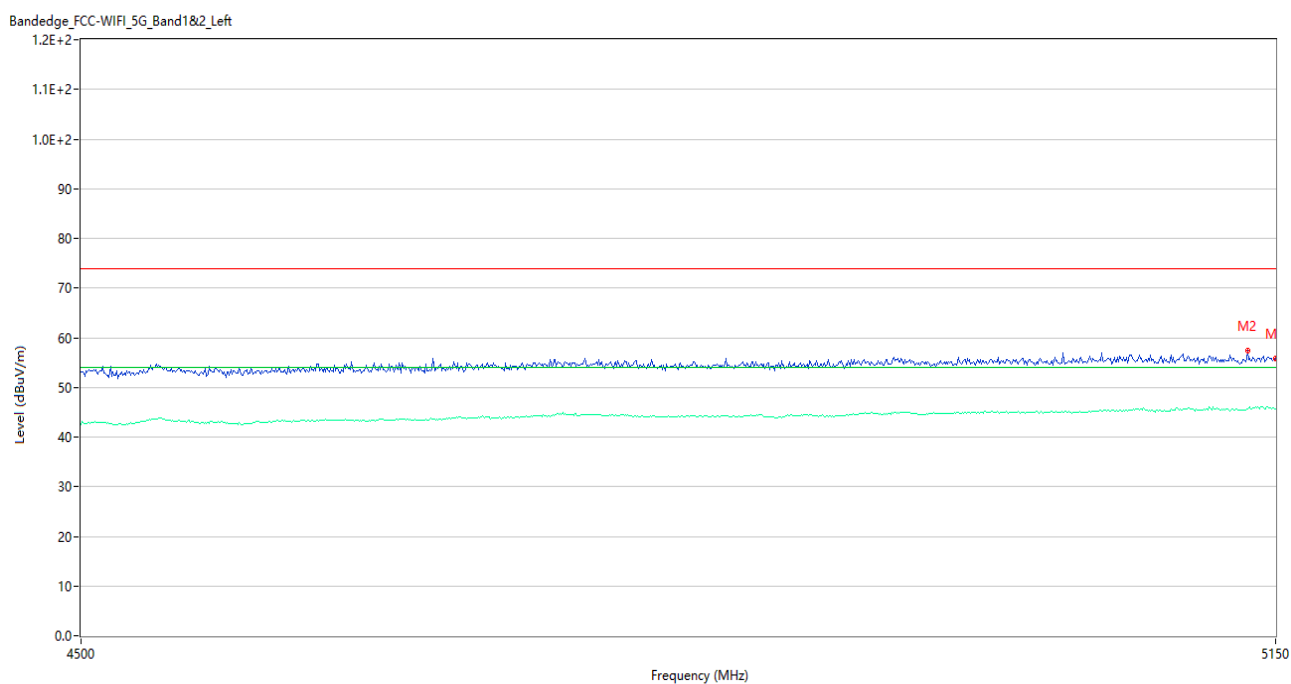
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.40	5.40	74.0	18.60	Peak	294.00	150	Horizontal	Pass
1**	5350.000	45.57	5.40	54.0	8.43	AV	294.00	150	Horizontal	Pass
2	5357.810	57.50	5.64	74.0	16.50	Peak	205.00	150	Horizontal	Pass
2**	5357.810	45.78	5.64	54.0	8.22	AV	205.00	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	59.91	5.21	74.0	14.09	Peak	231.00	150	Horizontal	Pass
1**	5150.000	51.64	5.21	54.0	2.36	AV	231.00	150	Horizontal	Pass
2	5124.000	61.83	5.18	74.0	12.17	Peak	238.00	150	Horizontal	Pass
2**	5124.000	48.78	5.18	54.0	5.22	AV	238.00	150	Horizontal	Pass
3	5142.850	60.33	5.47	74.0	13.67	Peak	231.00	150	Horizontal	Pass
3**	5142.850	51.77	5.47	54.0	2.23	AV	231.00	150	Horizontal	Pass

U-NII-2A 11a CH52



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.90	5.21	74.0	18.10	Peak	289.00	150	Horizontal	Pass
1**	5150.000	45.73	5.21	54.0	8.27	AV	289.00	150	Horizontal	Pass
2	5133.750	57.30	5.39	74.0	16.70	Peak	231.00	150	Horizontal	Pass
2**	5133.750	45.59	5.39	54.0	8.41	AV	231.00	150	Horizontal	Pass

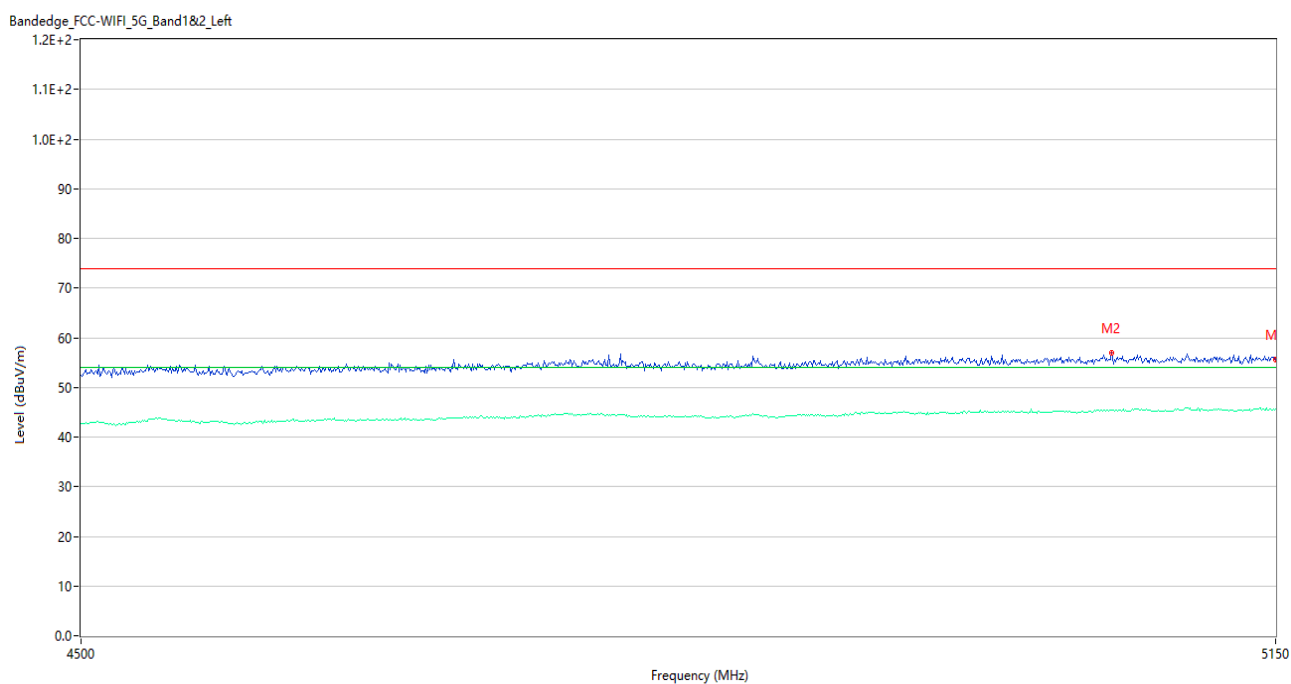
U-NII-2A 11a CH64

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	60.15	5.40	74.0	13.85	Peak	215.00	150	Horizontal	Pass
1**	5350.000	49.44	5.40	54.0	4.56	AV	215.00	150	Horizontal	Pass
2	5351.870	60.45	5.45	74.0	13.55	Peak	212.00	150	Horizontal	Pass
2**	5351.870	49.41	5.45	54.0	4.59	AV	212.00	150	Horizontal	Pass

U-NII-2A 11ac20 CH52



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.60	5.21	74.0	18.40	Peak	359.97	150	Horizontal	Pass
1**	5150.000	45.62	5.21	54.0	8.38	AV	359.97	150	Horizontal	Pass
2	5055.750	56.87	5.15	74.0	17.13	Peak	203.00	150	Horizontal	Pass
2**	5055.750	45.53	5.15	54.0	8.47	AV	203.00	150	Horizontal	Pass