

TEST REPORT

Applicant: Mason America, Inc.
Address: STE 1111 701 PIKE ST SEATTLE WA 98101-3915
Equipment Type: Mason SmartTab 300
Model Name: MGQ300
Brand Name: MASON
FCC ID: 2AJZP-MGQ300
ISED Number: 24360-MGQ300
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Sep. 08, 2025
Test Date: Sep. 09, 2025 - Sep. 15, 2025
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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>Oct. 17, 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	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Mason America, Inc.
Address	STE 1111 701 PIKE ST SEATTLE WA 98101-3915

2.2 Manufacturer Information

Manufacturer	Mason America, Inc.
Address	STE 1111 701 PIKE ST SEATTLE WA 98101-3915

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mason SmartTab 300
Model Name Under Test	MGQ300
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	SC-SH2490096-S03(conducted) SC-SH2490096-S05(radiated)
Hardware Version	HS63-MP-P1
Software Version	MGQ300_V01_G_20250122
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	3G Network WCDMA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/17/19/25/26/66/71 TDD LTE Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) GPS, GLONASS, BDS, Galileo, QZSS, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Modulation technology	OFDM
Modulation Type	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
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 18.15 dBm U-NII-2A: 17.95 dBm U-NII-2C: 18.57 dBm U-NII-3: 18.21 dBm
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: -1.89 dBi U-NII-2A: 5250 MHz to 5350 MHz: -1.49 dBi U-NII-2C: 5470 MHz to 5725 MHz: -1.46 dBi U-NII-3: 5725 MHz to 5850 MHz: -2.47 dBi
About the Product	The equipment is Mason SmartTab 300, intended for used with information technology equipment.

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	122	5610
52	5260	102	5510	155	5775
56	5280	110	5550		
60	5300	118	5590		
64	5320	126	5630		
100	5500	134	5670		
104	5520	151	5755		
108	5540	159	5795		
112	5560				
116	5580				
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

Note: This report equipment will not transmit in the 5600-5650 MHz frequency band when used in Canada. This restriction is to protect weather radars operating in this frequency band.

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
44	Mid	5220	60	Mid	5300
48	High	5240	64	High	5320

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

For 802.11n(HT40)/ac(VHT40)

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

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

For 802.11ac(VHT80)

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

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

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

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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN) Devices
4	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
5	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

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

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	48% to 58%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.1°C to +25.5°C
Working Voltage of the EUT	NV (Normal Voltage)	3.85 V

4.2 Test Equipment List

Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	BH-EMC-L066	2025.02.12	2026.02.11
Spectrum Analyzer	KEYSIGHT	N9010B	BH-EMC-L099	2025.02.12	2026.02.11
Signal Generator	Anritsu	MG3710E	BH-EMC-L131	2025.02.12	2026.02.11
Wideband Radio Communication Tester	R&S	CMW500	BH-EMC-L094	2025.02.11	2026.02.10
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L015	2025.07.04	2026.07.03
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519 B	BH-EMC-L067	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	BH-EMC-L008	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	BH-EMC-L044	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	BH-EMC-L061	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2025.02.11	2026.02.10
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2025.02.11	2026.02.10
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	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 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	3.70 dB
Temperature	0.82 °C
Humidity	4.1 %

4.5 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)

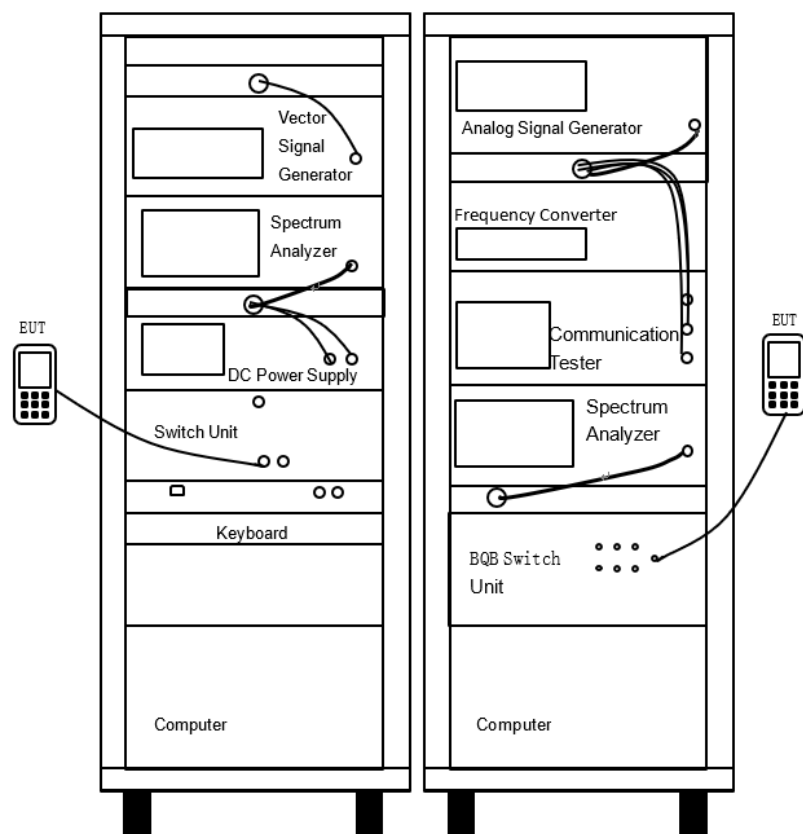
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

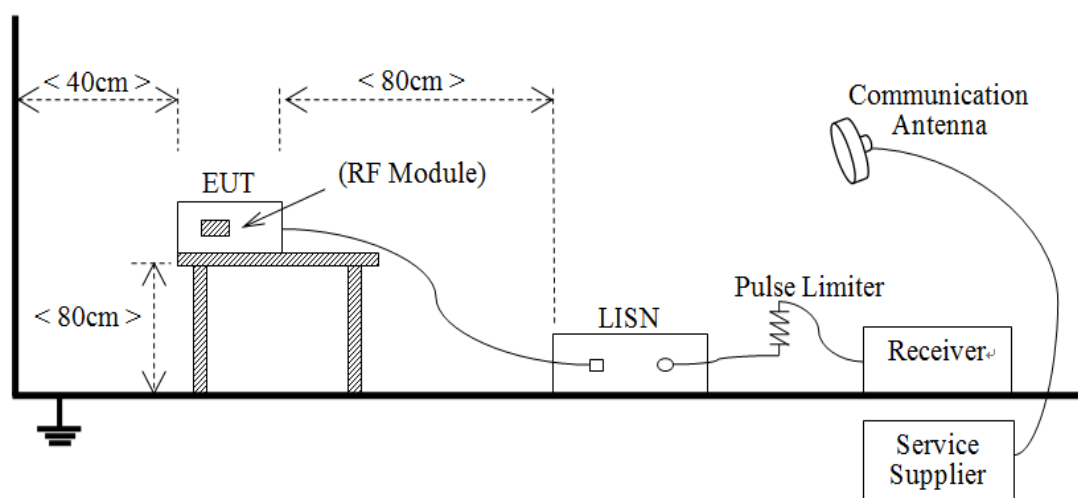
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



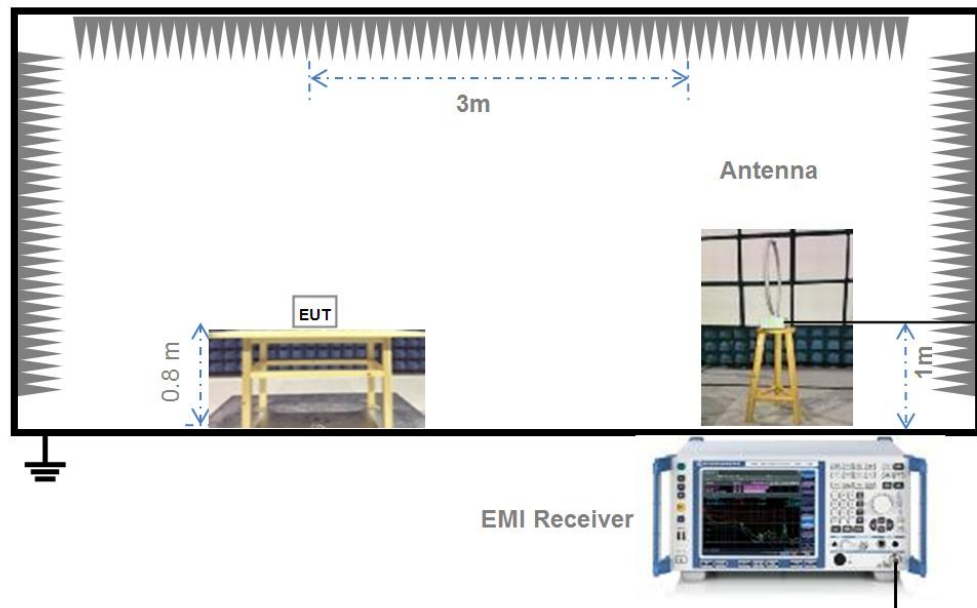
(Diagram 1)

4.6.2 For AC Power Supply Port Test



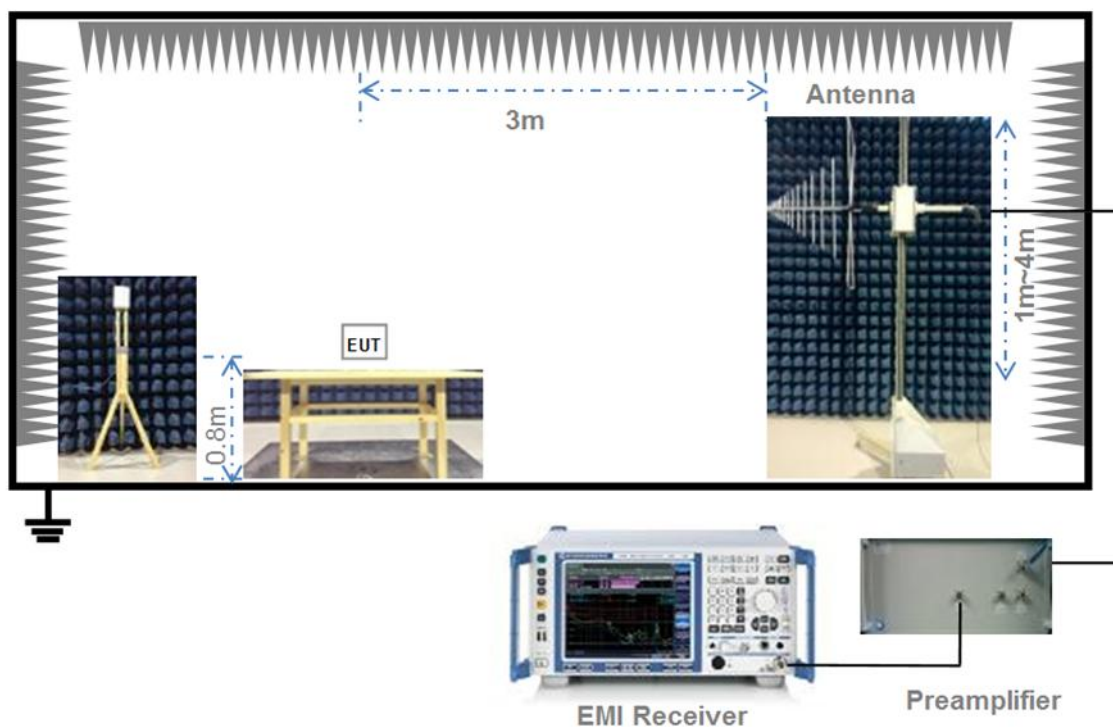
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



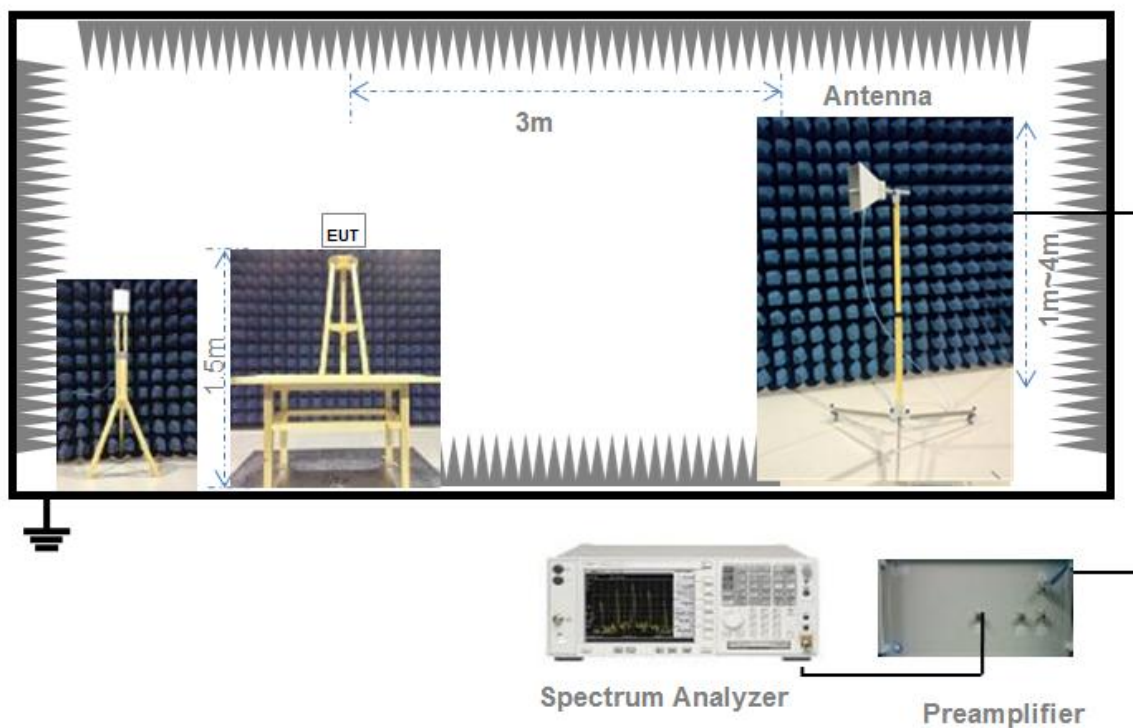
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 26 dB emissions bandwidth in MHz.	

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The maximum conducted output power shall not exceed:

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

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

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

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

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

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

Measurements of duty cycle

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

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

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

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

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a), RSS-247, 6.2

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

RSS-247, 6.2

The maximum power spectral density should not exceed:

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

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

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, RSS-GEN, 8.8

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

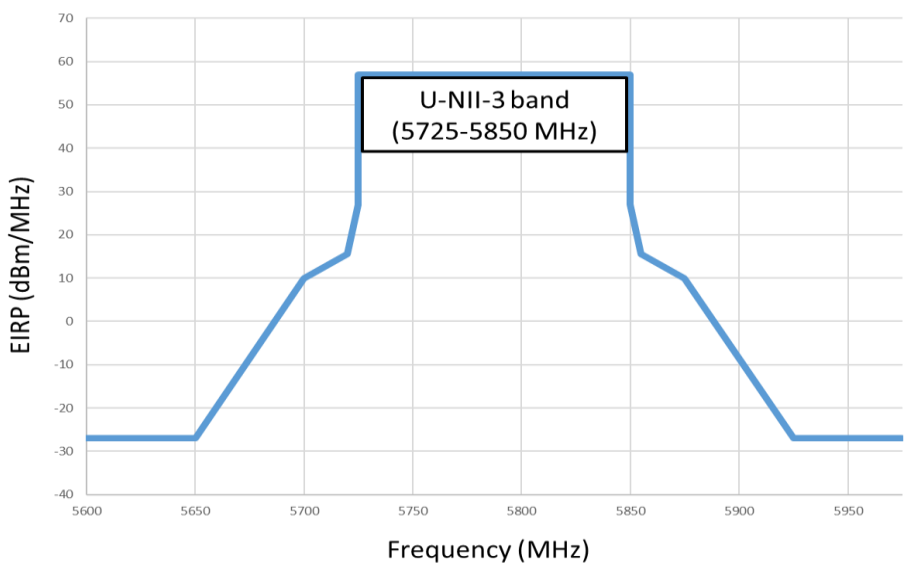
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

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

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

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

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

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

Note 1: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note 2: For IC standard, the U-NII-3 (5725 - 5850 MHz) maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note 3: All the configurations were tested, but only the worst data was shown in this report.

Note 4: The RF Output Power has considered the Duty Factor.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	2.04	2.09	98.03%
11n (HT20)/11ac (VHT20)	1.91	1.95	97.89%
11n (HT40)/11ac (VHT40)	0.94	0.98	95.91%
11ac (VHT80)	0.46	0.50	92.58%

Test DataConducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	18.15	65.31	250	Pass
11a	CH44	18.15	65.31	250	Pass
11a	CH48	18.02	63.39	250	Pass
11n (HT20)	CH36	17.89	61.52	250	Pass
11n (HT20)	CH44	17.88	61.38	250	Pass
11n (HT20)	CH48	17.83	60.67	250	Pass
11n (HT40)	CH38	13.59	22.86	250	Pass
11n (HT40)	CH46	16.32	42.85	250	Pass
11ac (VHT20)	CH36	16.89	48.87	250	Pass
11ac (VHT20)	CH44	16.96	49.66	250	Pass
11ac (VHT20)	CH48	16.90	48.98	250	Pass
11ac (VHT40)	CH38	16.36	43.25	250	Pass
11ac (VHT40)	CH46	16.31	42.76	250	Pass
11ac (VHT80)	CH42	13.37	21.73	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	17.95	62.37	250	Pass
11a	CH60	17.75	59.57	250	Pass
11a	CH64	17.72	59.16	250	Pass
11n (HT20)	CH52	17.76	59.70	250	Pass
11n (HT20)	CH60	17.58	57.28	250	Pass
11n (HT20)	CH64	17.56	57.02	250	Pass
11n (HT40)	CH54	16.25	42.17	250	Pass
11n (HT40)	CH62	14.92	31.05	250	Pass
11ac (VHT20)	CH52	16.72	46.99	250	Pass
11ac (VHT20)	CH60	16.43	43.95	250	Pass
11ac (VHT20)	CH64	16.43	43.95	250	Pass
11ac (VHT40)	CH54	16.18	41.50	250	Pass
11ac (VHT40)	CH62	15.90	38.90	250	Pass
11ac (VHT80)	CH58	12.46	17.62	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	18.20	66.07	250	Pass
11a	CH116	18.57	71.94	250	Pass
11a	CH140	17.79	60.12	250	Pass
11n (HT20)	CH100	18.02	63.39	250	Pass
11n (HT20)	CH116	18.28	67.30	250	Pass
11n (HT20)	CH140	15.60	36.31	250	Pass
11n (HT40)	CH102	16.39	43.55	250	Pass
11n (HT40)	CH118	16.72	46.99	250	Pass
11n (HT40)	CH134	17.62	57.81	250	Pass
11ac (VHT20)	CH100	16.98	49.89	250	Pass
11ac (VHT20)	CH116	17.26	53.21	250	Pass
11ac (VHT20)	CH140	18.21	66.22	250	Pass
11ac (VHT40)	CH102	16.34	43.05	250	Pass
11ac (VHT40)	CH118	16.66	46.34	250	Pass
11ac (VHT40)	CH134	17.51	56.36	250	Pass
11ac (VHT80)	CH106	14.88	30.76	250	Pass
11ac (VHT80)	CH122	16.86	48.53	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.62	57.81	1000	Pass
11a	CH157	18.21	66.22	1000	Pass
11a	CH165	17.76	59.70	1000	Pass
11n (HT20)	CH149	18.02	63.39	1000	Pass
11n (HT20)	CH157	17.71	59.02	1000	Pass
11n (HT20)	CH165	17.98	62.81	1000	Pass
11n (HT40)	CH151	17.00	50.12	1000	Pass
11n (HT40)	CH159	16.82	48.08	1000	Pass
11ac (VHT20)	CH149	17.75	59.57	1000	Pass
11ac (VHT20)	CH157	17.45	55.59	1000	Pass
11ac (VHT20)	CH165	16.90	48.98	1000	Pass
11ac (VHT40)	CH151	17.16	52.00	1000	Pass
11ac (VHT40)	CH159	16.75	47.32	1000	Pass
11ac (VHT80)	CH155	16.84	48.31	1000	Pass

E.I.R.P Test Data (For ISED)

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH36	16.26	42.27	166	Pass
11a	CH44	16.26	42.27	166	Pass
11a	CH48	16.13	41.02	166	Pass
11n (HT20)	CH36	16.00	39.81	178	Pass
11n (HT20)	CH44	15.99	39.72	177	Pass
11n (HT20)	CH48	15.94	39.26	177	Pass
11n (HT40)	CH38	11.70	14.79	200	Pass
11n (HT40)	CH46	14.43	27.73	200	Pass
11ac (VHT20)	CH36	15.00	31.62	178	Pass
11ac (VHT20)	CH44	15.07	32.14	177	Pass
11ac (VHT20)	CH48	15.01	31.70	177	Pass
11ac (VHT40)	CH38	14.47	27.99	200	Pass
11ac (VHT40)	CH46	14.42	27.67	200	Pass
11ac (VHT80)	CH42	11.48	14.06	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH52	16.46	44.26	830	Pass
11a	CH60	16.26	42.27	831	Pass
11a	CH64	16.23	41.98	832	Pass
11n (HT20)	CH52	16.27	42.36	889	Pass
11n (HT20)	CH60	16.09	40.64	890	Pass
11n (HT20)	CH64	16.07	40.46	889	Pass
11n (HT40)	CH54	14.76	29.92	1000	Pass
11n (HT40)	CH62	13.43	22.03	1000	Pass
11ac (VHT20)	CH52	15.23	33.34	889	Pass
11ac (VHT20)	CH60	14.94	31.19	889	Pass
11ac (VHT20)	CH64	14.94	31.19	889	Pass
11ac (VHT40)	CH54	14.69	29.44	1000	Pass
11ac (VHT40)	CH62	14.41	27.61	1000	Pass
11ac (VHT80)	CH58	10.97	12.50	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH100	16.74	47.21	832	Pass
11a	CH116	17.11	51.40	831	Pass
11a	CH140	16.33	42.95	832	Pass
11n (HT20)	CH100	16.56	45.29	890	Pass
11n (HT20)	CH116	16.82	48.08	889	Pass
11n (HT20)	CH140	14.14	25.94	889	Pass
11n (HT40)	CH102	14.93	31.12	1000	Pass
11n (HT40)	CH118	15.26	33.57	1000	Pass
11n (HT40)	CH134	16.16	41.30	1000	Pass
11ac (VHT20)	CH100	15.52	35.65	889	Pass
11ac (VHT20)	CH116	15.80	38.02	889	Pass
11ac (VHT20)	CH140	16.75	47.32	889	Pass
11ac (VHT40)	CH102	14.88	30.76	1000	Pass
11ac (VHT40)	CH118	15.20	33.11	1000	Pass
11ac (VHT40)	CH134	16.05	40.27	1000	Pass
11ac (VHT80)	CH106	13.42	21.98	1000	Pass
11ac (VHT80)	CH122	15.40	34.67	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	Verdict
11a	CH149	15.15	32.73	Pass
11a	CH157	15.74	37.50	Pass
11a	CH165	15.29	33.81	Pass
11n (HT20)	CH149	15.55	35.89	Pass
11n (HT20)	CH157	15.24	33.42	Pass
11n (HT20)	CH165	15.51	35.56	Pass
11n (HT40)	CH151	14.53	28.38	Pass
11n (HT40)	CH159	14.35	27.23	Pass
11ac (VHT20)	CH149	15.28	33.73	Pass
11ac (VHT20)	CH157	14.98	31.48	Pass
11ac (VHT20)	CH165	14.43	27.73	Pass
11ac (VHT40)	CH151	14.69	29.44	Pass
11ac (VHT40)	CH159	14.28	26.79	Pass
11ac (VHT80)	CH155	14.37	27.35	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note 1: Test plots please refer to the document “Annex No.: BL-SH2591009-604 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	23.22	16.60
11a	CH44	22.67	16.59
11a	CH48	22.95	16.59
11n (HT20)	CH36	23.27	17.76
11n (HT20)	CH44	23.79	17.75
11n (HT20)	CH48	22.63	17.75
11n (HT40)	CH38	41.44	36.21
11n (HT40)	CH46	41.78	36.22
11ac (VHT20)	CH36	23.52	17.75
11ac (VHT20)	CH44	23.03	17.74
11ac (VHT20)	CH48	23.36	17.74
11ac (VHT40)	CH38	41.22	36.24
11ac (VHT40)	CH46	41.20	36.20
11ac (VHT80)	CH42	85.10	75.89

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	22.73	16.57
11a	CH60	22.70	16.59
11a	CH64	22.64	16.60
11n (HT20)	CH52	23.57	17.73
11n (HT20)	CH60	23.34	17.75
11n (HT20)	CH64	23.20	17.74
11n (HT40)	CH54	41.48	36.23
11n (HT40)	CH62	41.47	36.23
11ac (VHT20)	CH52	22.58	17.74
11ac (VHT20)	CH60	23.13	17.73
11ac (VHT20)	CH64	23.22	17.73
11ac (VHT40)	CH54	41.62	36.22
11ac (VHT40)	CH62	41.41	36.23
11ac (VHT80)	CH58	97.40	76.04

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	22.74	16.60
11a	CH116	22.78	16.59
11a	CH140	24.19	16.60
11n (HT20)	CH100	23.30	17.76
11n (HT20)	CH116	23.75	17.74
11n (HT20)	CH140	23.58	17.74
11n (HT40)	CH102	41.35	36.23
11n (HT40)	CH118	41.46	36.25
11n (HT40)	CH134	41.23	36.23
11ac (VHT20)	CH100	22.95	17.73
11ac (VHT20)	CH116	23.20	17.74
11ac (VHT20)	CH140	23.41	17.74
11ac (VHT40)	CH102	41.16	36.22
11ac (VHT40)	CH118	41.36	36.24
11ac (VHT40)	CH134	41.45	36.22
11ac (VHT80)	CH106	88.93	75.97
11ac (VHT80)	CH122	88.92	75.95

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	24.26	16.62
11a	CH157	23.90	16.63
11a	CH165	24.38	16.65
11n (HT20)	CH149	23.16	17.76
11n (HT20)	CH157	23.42	17.78
11n (HT20)	CH165	23.74	17.79
11n (HT40)	CH151	41.76	36.26
11n (HT40)	CH159	41.48	36.28
11ac (VHT20)	CH149	23.61	17.74
11ac (VHT20)	CH157	23.50	17.75
11ac (VHT20)	CH165	23.13	17.74
11ac (VHT40)	CH151	41.33	36.25
11ac (VHT40)	CH159	41.31	36.25
11ac (VHT80)	CH155	88.31	75.89

A.3 6 dB Bandwidth

Note 1: Test plots please refer to the document “Annex No.: BL-SH2591009-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.40	500.00	Pass
11a	CH157	15.90	500.00	Pass
11a	CH165	15.90	500.00	Pass
11n (HT20)	CH149	15.20	500.00	Pass
11n (HT20)	CH157	16.80	500.00	Pass
11n (HT20)	CH165	15.30	500.00	Pass
11n (HT40)	CH151	35.60	500.00	Pass
11n (HT40)	CH159	35.80	500.00	Pass
11ac (VHT20)	CH149	16.50	500.00	Pass
11ac (VHT20)	CH157	15.40	500.00	Pass
11ac (VHT20)	CH165	15.40	500.00	Pass
11ac (VHT40)	CH151	35.90	500.00	Pass
11ac (VHT40)	CH159	35.70	500.00	Pass
11ac (VHT80)	CH155	75.30	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document "Annex No.: BL-SH2591009-604 Data Part 3.pdf".

Note²: The RBW used in U-NII-3 is 1 MHz, and the PSD factor is: $10 \cdot \log(500 \text{ kHz/RBW}) = -3 \text{ dBm}$.

Note³: The PSD has considered the Duty Factor.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	6.94	11.00	Pass
11a	CH44	6.91	11.00	Pass
11a	CH48	6.97	11.00	Pass
11n (HT20)	CH36	6.37	11.00	Pass
11n (HT20)	CH44	6.55	11.00	Pass
11n (HT20)	CH48	6.45	11.00	Pass
11n (HT40)	CH38	-0.11	11.00	Pass
11n (HT40)	CH46	2.01	11.00	Pass
11ac (VHT20)	CH36	5.51	11.00	Pass
11ac (VHT20)	CH44	5.59	11.00	Pass
11ac (VHT20)	CH48	5.63	11.00	Pass
11ac (VHT40)	CH38	2.09	11.00	Pass
11ac (VHT40)	CH46	2.14	11.00	Pass
11ac (VHT80)	CH42	-3.55	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	6.90	11.00	Pass
11a	CH60	6.78	11.00	Pass
11a	CH64	6.71	11.00	Pass
11n (HT20)	CH52	6.38	11.00	Pass
11n (HT20)	CH60	6.08	11.00	Pass
11n (HT20)	CH64	6.12	11.00	Pass
11n (HT40)	CH54	1.83	11.00	Pass
11n (HT40)	CH62	0.31	11.00	Pass
11ac (VHT20)	CH52	5.34	11.00	Pass
11ac (VHT20)	CH60	5.19	11.00	Pass
11ac (VHT20)	CH64	5.12	11.00	Pass
11ac (VHT40)	CH54	2.08	11.00	Pass
11ac (VHT40)	CH62	1.72	11.00	Pass
11ac (VHT80)	CH58	-4.71	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	7.35	11.00	Pass
11a	CH116	7.61	11.00	Pass
11a	CH140	7.01	11.00	Pass
11n (HT20)	CH100	6.86	11.00	Pass
11n (HT20)	CH116	7.10	11.00	Pass
11n (HT20)	CH140	4.49	11.00	Pass
11n (HT40)	CH102	2.20	11.00	Pass
11n (HT40)	CH118	2.47	11.00	Pass
11n (HT40)	CH134	3.32	11.00	Pass
11ac (VHT20)	CH100	5.76	11.00	Pass
11ac (VHT20)	CH116	6.10	11.00	Pass
11ac (VHT20)	CH140	7.01	11.00	Pass
11ac (VHT40)	CH102	2.23	11.00	Pass
11ac (VHT40)	CH118	2.57	11.00	Pass
11ac (VHT40)	CH134	3.39	11.00	Pass
11ac (VHT80)	CH106	-2.88	11.00	Pass
11ac (VHT80)	CH122	-0.49	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	6.84	30.00	Pass
11a	CH157	7.85	30.00	Pass
11a	CH165	8.93	30.00	Pass
11n (HT20)	CH149	7.14	30.00	Pass
11n (HT20)	CH157	6.66	30.00	Pass
11n (HT20)	CH165	6.95	30.00	Pass
11n (HT40)	CH151	3.02	30.00	Pass
11n (HT40)	CH159	2.67	30.00	Pass
11ac (VHT20)	CH149	6.77	30.00	Pass
11ac (VHT20)	CH157	6.37	30.00	Pass
11ac (VHT20)	CH165	5.90	30.00	Pass
11ac (VHT40)	CH151	3.08	30.00	Pass
11ac (VHT40)	CH159	2.73	30.00	Pass
11ac (VHT80)	CH155	-0.36	30.00	Pass

EIRP PSD

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	EIRP Limit (dBm/MHz)	Verdict
11a	CH36	5.05	10.00	Pass
11a	CH44	5.02	10.00	Pass
11a	CH48	5.08	10.00	Pass
11n (HT20)	CH36	4.48	10.00	Pass
11n (HT20)	CH44	4.66	10.00	Pass
11n (HT20)	CH48	4.56	10.00	Pass
11n (HT40)	CH38	-2.00	10.00	Pass
11n (HT40)	CH46	0.12	10.00	Pass
11ac (VHT20)	CH36	3.62	10.00	Pass
11ac (VHT20)	CH44	3.70	10.00	Pass
11ac (VHT20)	CH48	3.74	10.00	Pass
11ac (VHT40)	CH38	0.20	10.00	Pass
11ac (VHT40)	CH46	0.25	10.00	Pass
11ac (VHT80)	CH42	-5.44	10.00	Pass

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH52	5.41	Pass
11a	CH60	5.29	Pass
11a	CH64	5.22	Pass
11n (HT20)	CH52	4.89	Pass
11n (HT20)	CH60	4.59	Pass
11n (HT20)	CH64	4.63	Pass
11n (HT40)	CH54	0.34	Pass
11n (HT40)	CH62	-1.18	Pass
11ac (VHT20)	CH52	3.85	Pass
11ac (VHT20)	CH60	3.70	Pass
11ac (VHT20)	CH64	3.63	Pass
11ac (VHT40)	CH54	0.59	Pass
11ac (VHT40)	CH62	0.23	Pass
11ac (VHT80)	CH58	-6.20	Pass

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH100	5.89	Pass
11a	CH116	6.15	Pass
11a	CH140	5.55	Pass
11n (HT20)	CH100	5.40	Pass
11n (HT20)	CH116	5.64	Pass
11n (HT20)	CH140	3.03	Pass
11n (HT40)	CH102	0.74	Pass
11n (HT40)	CH118	1.01	Pass
11n (HT40)	CH134	1.86	Pass
11ac (VHT20)	CH100	4.30	Pass
11ac (VHT20)	CH116	4.64	Pass
11ac (VHT20)	CH140	5.55	Pass
11ac (VHT40)	CH102	0.77	Pass
11ac (VHT40)	CH118	1.11	Pass
11ac (VHT40)	CH134	1.93	Pass
11ac (VHT80)	CH106	-4.34	Pass
11ac (VHT80)	CH122	-1.95	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH149	4.37	Pass
11a	CH157	5.38	Pass
11a	CH165	6.46	Pass
11n (HT20)	CH149	4.67	Pass
11n (HT20)	CH157	4.19	Pass
11n (HT20)	CH165	4.48	Pass
11n (HT40)	CH151	0.55	Pass
11n (HT40)	CH159	0.20	Pass
11ac (VHT20)	CH149	4.30	Pass
11ac (VHT20)	CH157	3.90	Pass
11ac (VHT20)	CH165	3.43	Pass
11ac (VHT40)	CH151	0.61	Pass
11ac (VHT40)	CH159	0.26	Pass
11ac (VHT80)	CH155	-2.83	Pass

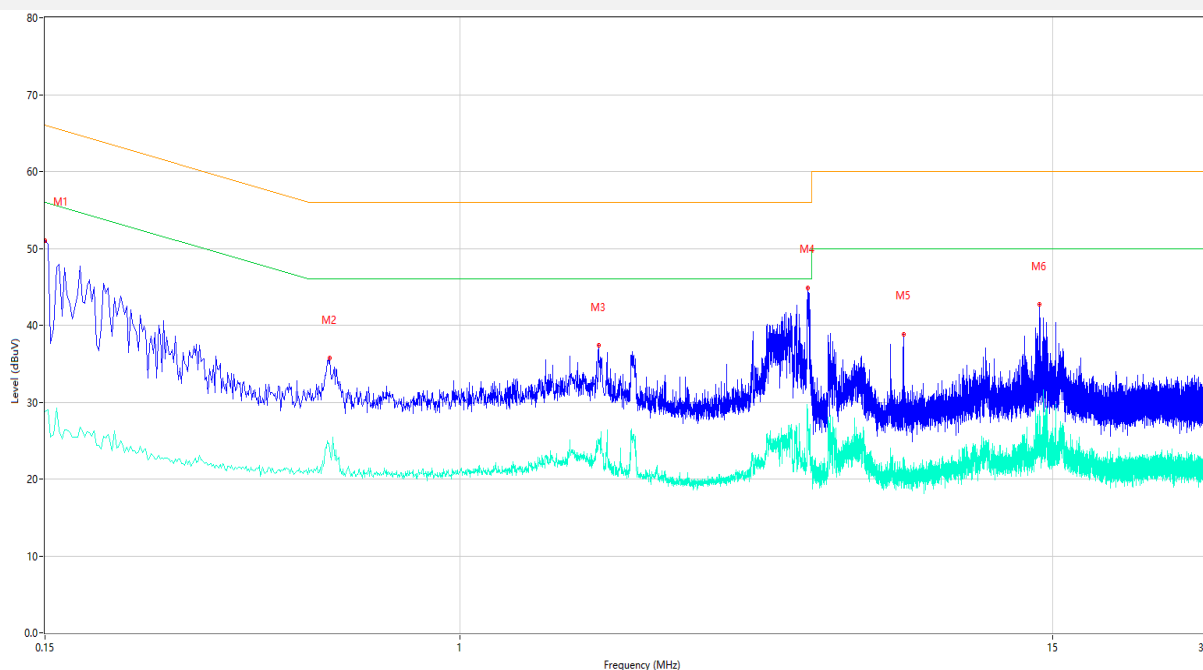
A.5 Conducted Emission

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.

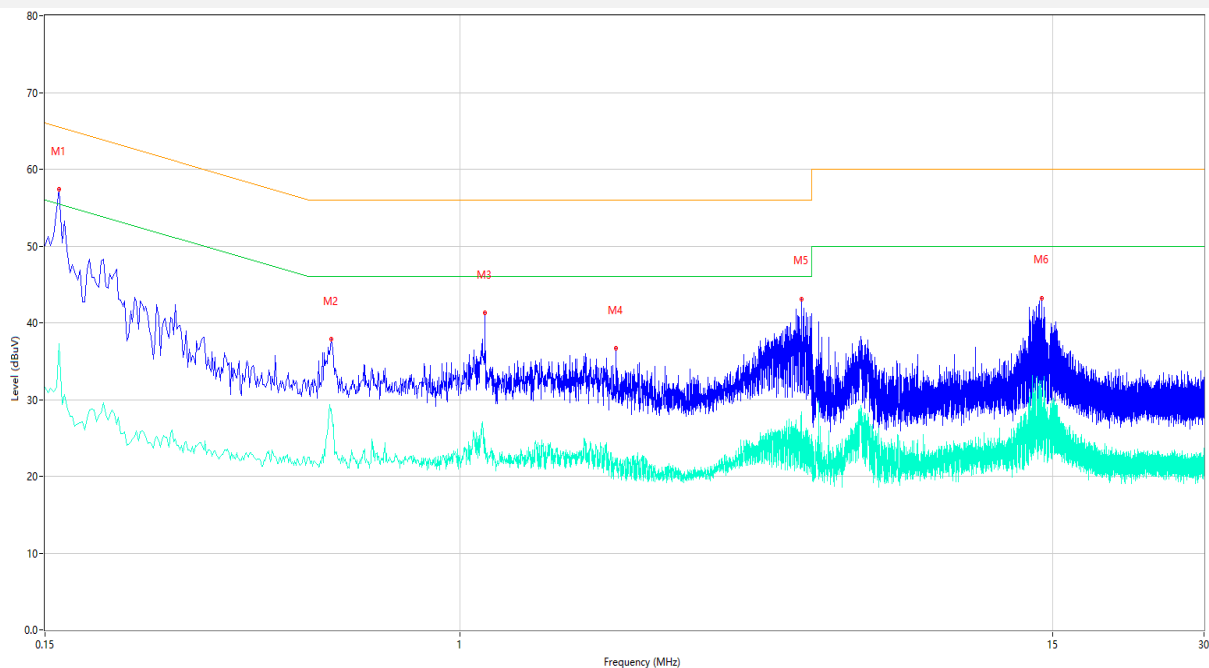
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	51.05	10.05	66.00	14.95	Peak	L	Pass
1**	0.150	28.76	10.05	56.00	27.24	AV	L	Pass
2	0.552	35.70	10.17	56.00	20.30	Peak	L	Pass
2**	0.552	23.88	10.17	46.00	22.12	AV	L	Pass
3	1.886	37.34	10.33	56.00	18.66	Peak	L	Pass
3**	1.886	24.89	10.33	46.00	21.11	AV	L	Pass
4	4.906	44.89	10.44	56.00	11.11	Peak	L	Pass
4**	4.906	27.57	10.44	46.00	18.43	AV	L	Pass
5	7.592	38.86	10.77	60.00	21.14	Peak	L	Pass
5**	7.592	22.35	10.77	50.00	27.65	AV	L	Pass
6	14.158	42.71	11.14	60.00	17.29	Peak	L	Pass
6**	14.158	28.41	11.14	50.00	21.59	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	57.35	10.15	65.46	8.11	Peak	N	Pass
1**	0.160	37.27	10.15	55.46	18.19	AV	N	Pass
2	0.556	37.90	10.18	56.00	18.10	Peak	N	Pass
2**	0.556	28.75	10.18	46.00	17.25	AV	N	Pass
3	1.122	41.27	10.25	56.00	14.73	Peak	N	Pass
3**	1.122	23.61	10.25	46.00	22.39	AV	N	Pass
4	2.040	36.70	10.24	56.00	19.30	Peak	N	Pass
4**	2.040	22.14	10.24	46.00	23.86	AV	N	Pass
5	4.772	43.13	10.42	56.00	12.87	Peak	N	Pass
5**	4.772	26.42	10.42	46.00	19.58	AV	N	Pass
6	14.314	43.25	11.10	60.00	16.75	Peak	N	Pass
6**	14.314	31.25	11.10	50.00	18.75	AV	N	Pass

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

A.6.1 Radiated Spurious Emissions

Test Data

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

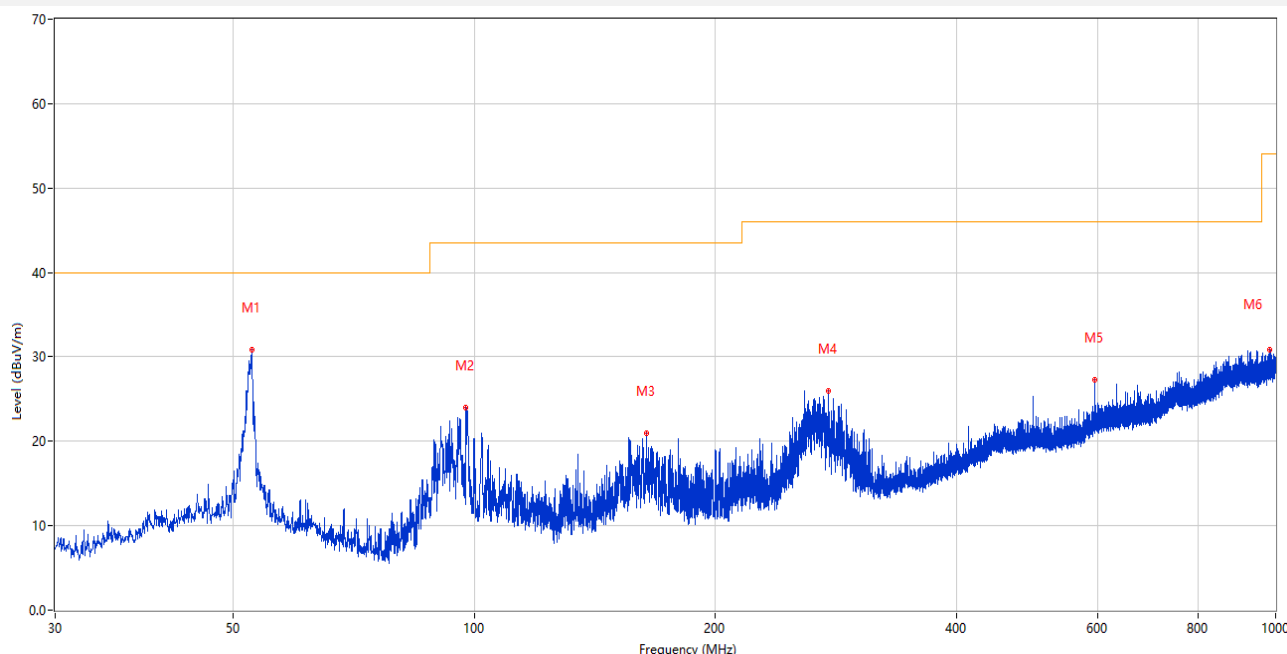
Note 2: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

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

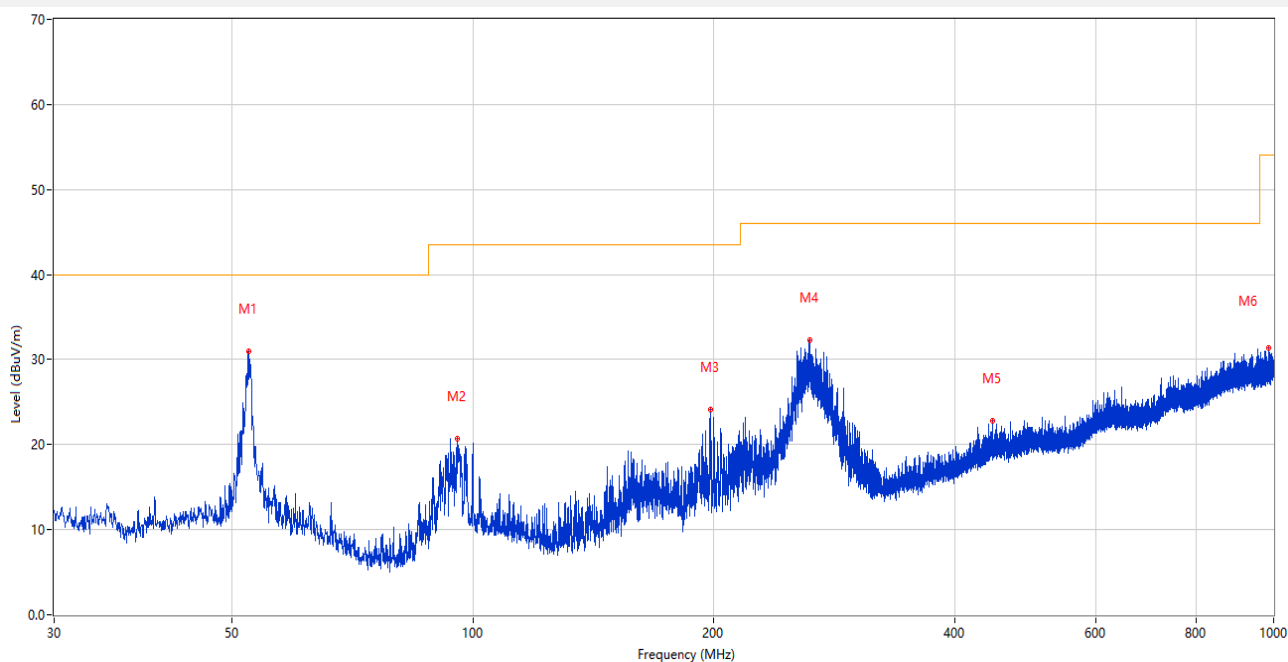
Note 5: For Multiple transmitter output, the quantity $10 \log(NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding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

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	52.746	30.86	-24.76	40.0	9.14	Peak	1.00	200	Horizontal	Pass
2	97.658	23.97	-26.28	43.5	19.53	Peak	105.00	200	Horizontal	Pass
3	163.908	20.96	-28.52	43.5	22.54	Peak	153.00	100	Horizontal	Pass
4	276.865	26.00	-23.92	46.0	20.00	Peak	266.00	200	Horizontal	Pass
5	595.219	27.25	-15.10	46.0	18.75	Peak	164.00	100	Horizontal	Pass
6	981.861	30.83	-8.51	54.0	23.17	Peak	7.00	100	Horizontal	Pass

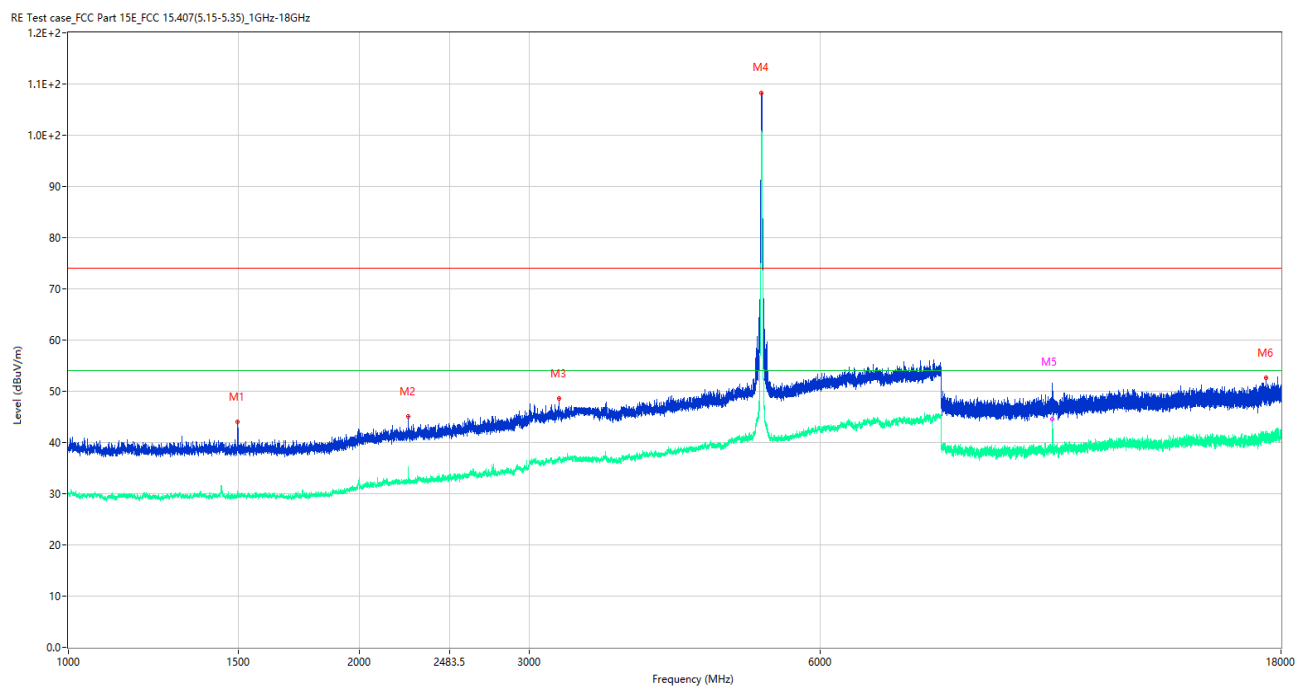
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.456	30.95	-24.72	40.0	9.05	Peak	109.00	100	Vertical	Pass
2	95.669	20.72	-26.59	43.5	22.78	Peak	8.00	100	Vertical	Pass
3	198.053	24.13	-25.64	43.5	19.37	Peak	48.00	100	Vertical	Pass
4	263.188	32.32	-24.13	46.0	13.68	Peak	37.00	100	Vertical	Pass
5	445.451	22.85	-19.50	46.0	23.15	Peak	131.00	200	Vertical	Pass
6	986.468	31.31	-8.47	54.0	22.69	Peak	11.00	200	Vertical	Pass

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

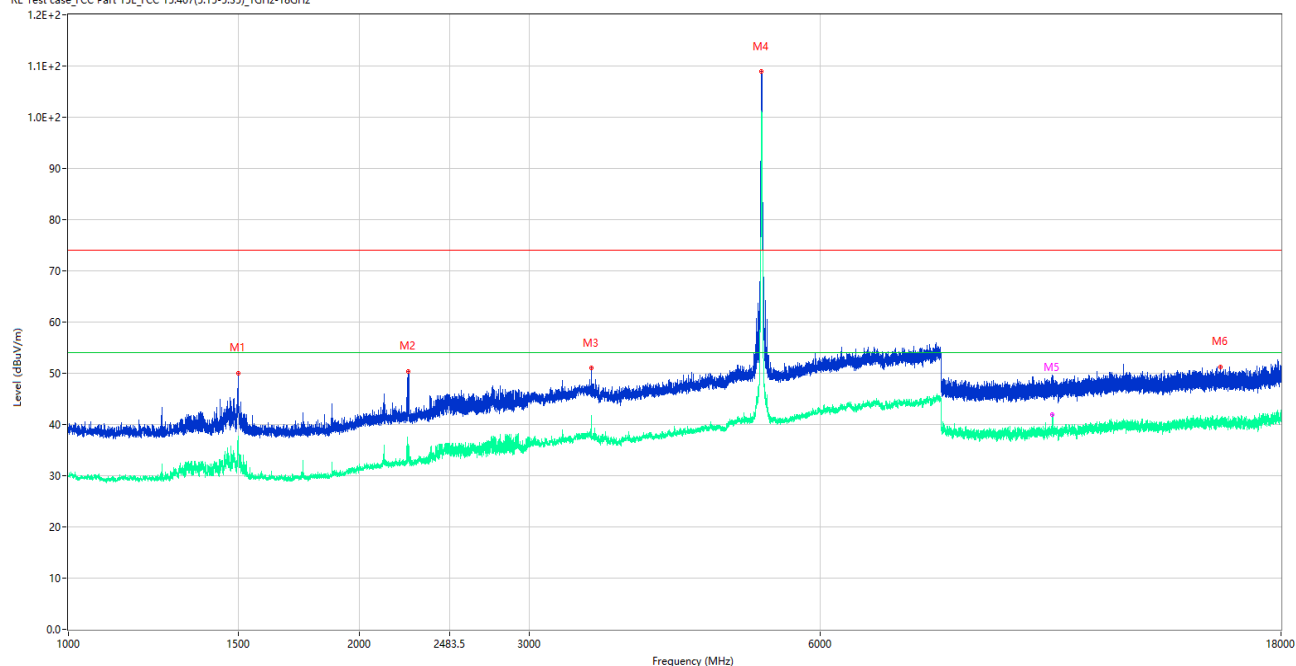
11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.750	43.97	-16.17	74.0	30.03	Peak	40.00	150	Horizontal	Pass
1**	1495.750	29.58	-16.17	54.0	24.42	AV	40.00	150	Horizontal	Pass
2	2248.500	45.08	-12.87	74.0	28.92	Peak	82.00	150	Horizontal	Pass
2**	2248.500	34.35	-12.87	54.0	19.65	AV	82.00	150	Horizontal	Pass
3	3223.000	48.64	-6.43	74.0	25.36	Peak	203.00	150	Horizontal	Pass
3**	3223.000	36.82	-6.43	54.0	17.18	AV	203.00	150	Horizontal	Pass
4	5218.500	108.31	-2.37	74.0	-34.31	Peak	252.00	150	Horizontal	N/A
4**	5218.500	100.29	-2.37	54.0	-46.29	AV	252.00	150	Horizontal	N/A
5	10443.875	49.91	-3.31	74.0	24.09	Peak	265.00	150	Horizontal	Pass
5**	10443.875	44.50	-3.31	54.0	9.50	AV	265.00	150	Horizontal	Pass
6	17356.876	52.57	-0.26	74.0	21.43	Peak	360.00	150	Horizontal	Pass
6**	17356.876	40.86	-0.26	54.0	13.14	AV	360.00	150	Horizontal	Pass

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

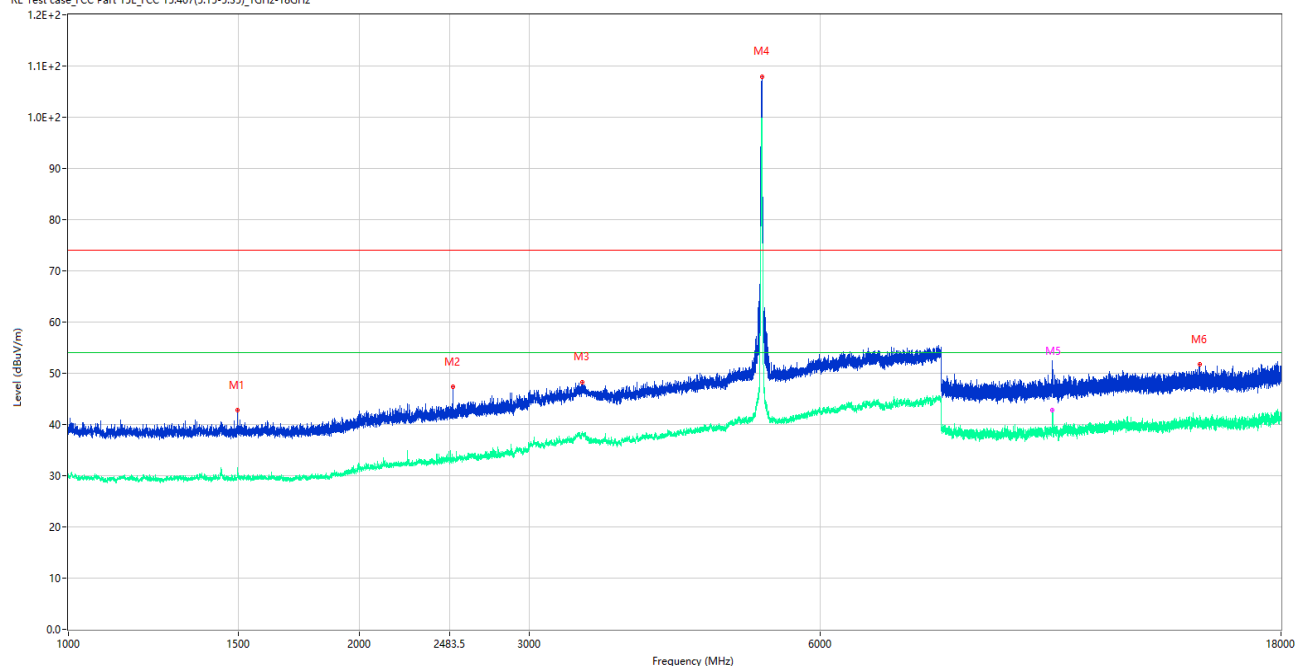
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.000	50.05	-16.14	74.0	23.95	Peak	76.00	150	Vertical	Pass
1**	1499.000	34.84	-16.14	54.0	19.16	AV	76.00	150	Vertical	Pass
2	2249.500	50.37	-12.89	74.0	23.63	Peak	76.00	150	Vertical	Pass
2**	2249.500	33.96	-12.89	54.0	20.04	AV	76.00	150	Vertical	Pass
3	3477.500	50.97	-6.22	74.0	23.03	Peak	92.00	150	Vertical	Pass
3**	3477.500	37.98	-6.22	54.0	16.02	AV	92.00	150	Vertical	Pass
4	5219.000	108.95	-2.36	74.0	-34.95	Peak	31.00	150	Vertical	N/A
4**	5219.000	101.03	-2.36	54.0	-47.03	AV	31.00	150	Vertical	N/A
5	10440.313	49.39	-3.40	74.0	24.61	Peak	6.00	150	Vertical	Pass
5**	10440.313	41.92	-3.40	54.0	12.08	AV	6.00	150	Vertical	Pass
6	15580.276	51.30	-2.30	74.0	22.70	Peak	176.00	150	Vertical	Pass
6**	15580.276	40.23	-2.30	54.0	13.77	AV	176.00	150	Vertical	Pass

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

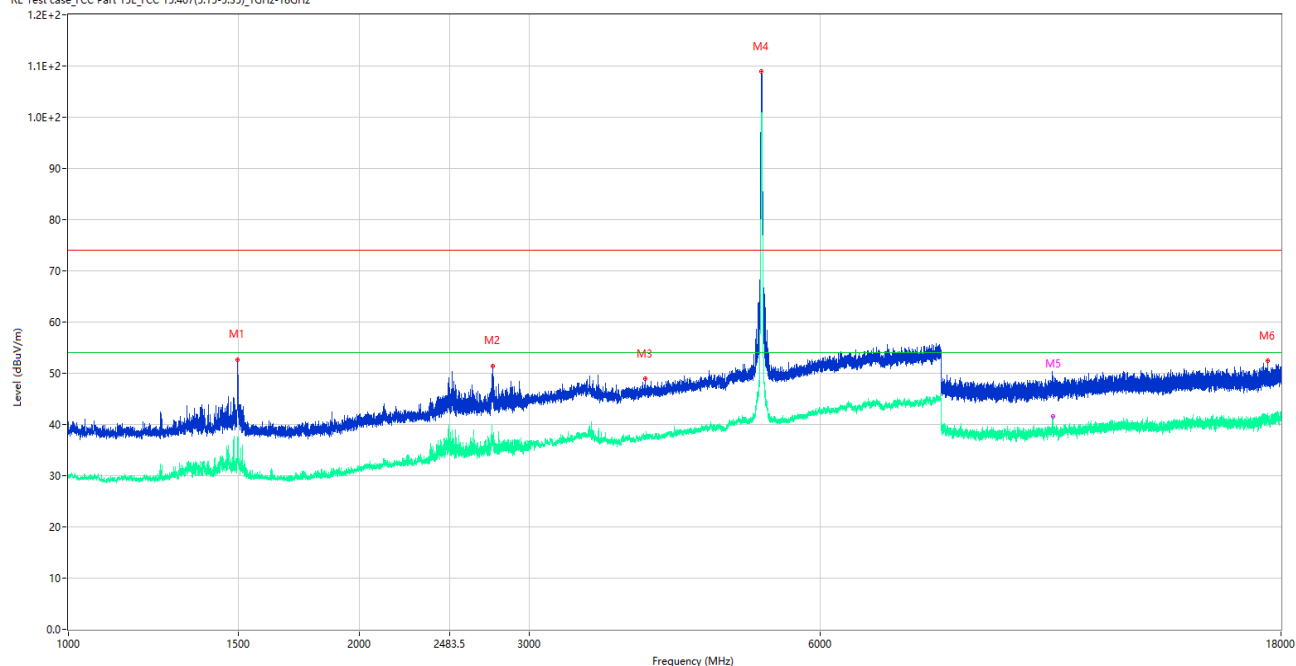
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.250	42.79	-16.17	74.0	31.21	Peak	225.00	150	Horizontal	Pass
1**	1495.250	29.60	-16.17	54.0	24.40	AV	225.00	150	Horizontal	Pass
2	2500.250	47.37	-12.02	74.0	26.63	Peak	64.00	150	Horizontal	Pass
2**	2500.250	33.43	-12.02	54.0	20.57	AV	64.00	150	Horizontal	Pass
3	3401.500	48.18	-5.60	74.0	25.82	Peak	360.00	150	Horizontal	Pass
3**	3401.500	38.15	-5.60	54.0	15.85	AV	360.00	150	Horizontal	Pass
4	5222.000	107.90	-2.36	74.0	-33.90	Peak	252.00	150	Horizontal	N/A
4**	5222.000	99.75	-2.36	54.0	-45.75	AV	252.00	150	Horizontal	N/A
5	10438.175	48.52	-3.37	74.0	25.48	Peak	286.00	150	Horizontal	Pass
5**	10438.175	42.87	-3.37	54.0	11.13	AV	286.00	150	Horizontal	Pass
6	14836.350	51.67	-0.29	74.0	22.33	Peak	346.00	150	Horizontal	Pass
6**	14836.350	41.09	-0.29	54.0	12.91	AV	346.00	150	Horizontal	Pass

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

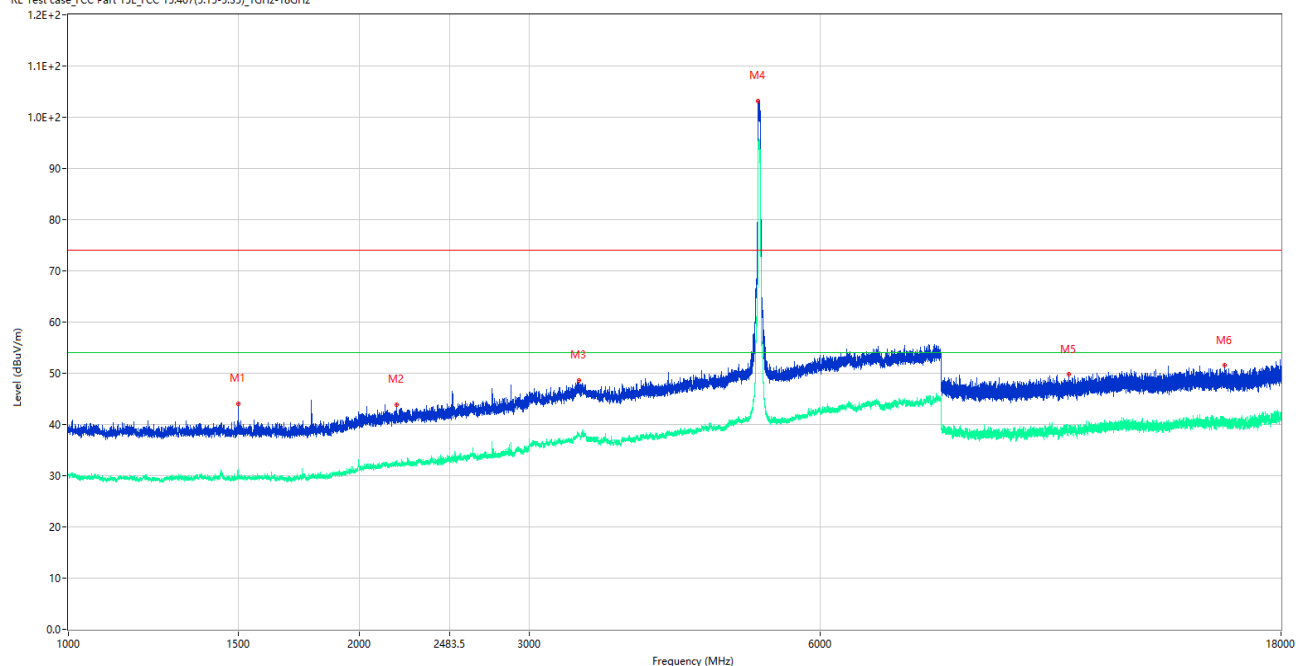
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.750	52.70	-16.14	74.0	21.30	Peak	276.00	150	Vertical	Pass
1**	1497.750	37.58	-16.14	54.0	16.42	AV	276.00	150	Vertical	Pass
2	2749.250	51.43	-10.53	74.0	22.57	Peak	70.00	150	Vertical	Pass
2**	2749.250	36.88	-10.53	54.0	17.12	AV	70.00	150	Vertical	Pass
3	3958.500	48.99	-4.11	74.0	25.01	Peak	150.00	150	Vertical	Pass
3**	3958.500	37.48	-4.11	54.0	16.52	AV	150.00	150	Vertical	Pass
4	5218.500	108.94	-2.37	74.0	-34.94	Peak	29.00	150	Vertical	N/A
4**	5218.500	100.81	-2.37	54.0	-46.81	AV	29.00	150	Vertical	N/A
5	10445.300	47.68	-3.31	74.0	26.32	Peak	360.00	150	Vertical	Pass
5**	10445.300	41.67	-3.31	54.0	12.33	AV	360.00	150	Vertical	Pass
6	17444.286	52.37	-0.05	74.0	21.63	Peak	11.00	150	Vertical	Pass
6**	17444.286	40.89	-0.05	54.0	13.11	AV	11.00	150	Vertical	Pass

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

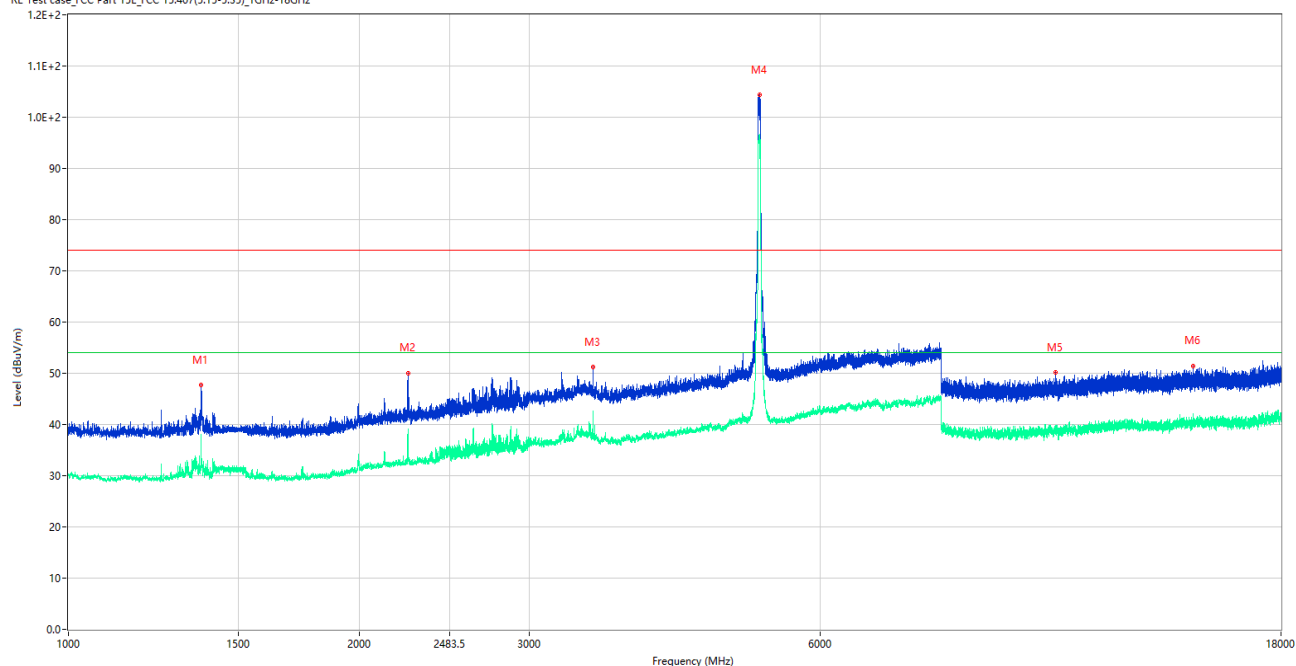
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.750	44.11	-16.14	74.0	29.89	Peak	229.00	150	Horizontal	Pass
1**	1498.750	31.08	-16.14	54.0	22.92	AV	229.00	150	Horizontal	Pass
2	2187.500	43.94	-13.26	74.0	30.06	Peak	0.00	150	Horizontal	Pass
2**	2187.500	32.63	-13.26	54.0	21.37	AV	0.00	150	Horizontal	Pass
3	3377.000	48.57	-4.92	74.0	25.43	Peak	267.00	150	Horizontal	Pass
3**	3377.000	38.12	-4.92	54.0	15.88	AV	267.00	150	Horizontal	Pass
4	5179.000	103.24	-2.33	74.0	-29.24	Peak	256.00	150	Horizontal	N/A
4**	5179.000	94.64	-2.33	54.0	-40.64	AV	256.00	150	Horizontal	N/A
5	10865.438	49.76	-3.23	74.0	24.24	Peak	51.00	150	Horizontal	Pass
5**	10865.438	39.60	-3.23	54.0	14.40	AV	51.00	150	Horizontal	Pass
6	15729.901	51.50	-2.07	74.0	22.50	Peak	11.00	150	Horizontal	Pass
6**	15729.901	40.01	-2.07	54.0	13.99	AV	11.00	150	Horizontal	Pass

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

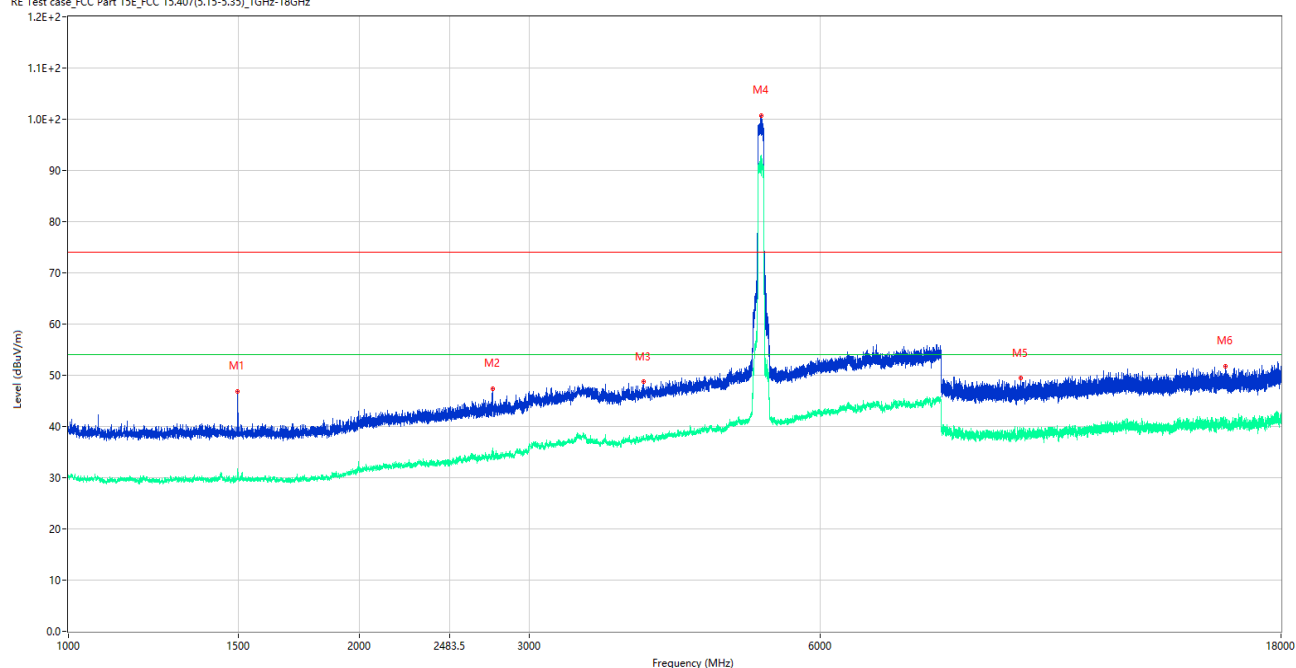
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1371.000	47.64	-15.94	74.0	26.36	Peak	126.00	150	Vertical	Pass
1**	1371.000	37.66	-15.94	54.0	16.34	AV	126.00	150	Vertical	Pass
2	2246.000	49.96	-12.83	74.0	24.04	Peak	105.00	150	Vertical	Pass
2**	2246.000	33.02	-12.83	54.0	20.98	AV	105.00	150	Vertical	Pass
3	3492.500	51.17	-5.82	74.0	22.83	Peak	92.00	150	Vertical	Pass
3**	3492.500	37.75	-5.82	54.0	16.25	AV	92.00	150	Vertical	Pass
4	5191.500	104.35	-2.30	74.0	-30.35	Peak	21.00	150	Vertical	N/A
4**	5191.500	95.72	-2.30	54.0	-41.72	AV	21.00	150	Vertical	N/A
5	10515.363	50.12	-3.52	74.0	23.88	Peak	358.00	150	Vertical	Pass
5**	10515.363	38.50	-3.52	54.0	15.50	AV	358.00	150	Vertical	Pass
6	14599.312	51.47	-2.41	74.0	22.53	Peak	346.00	150	Vertical	Pass
6**	14599.312	40.98	-2.41	54.0	13.02	AV	346.00	150	Vertical	Pass

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

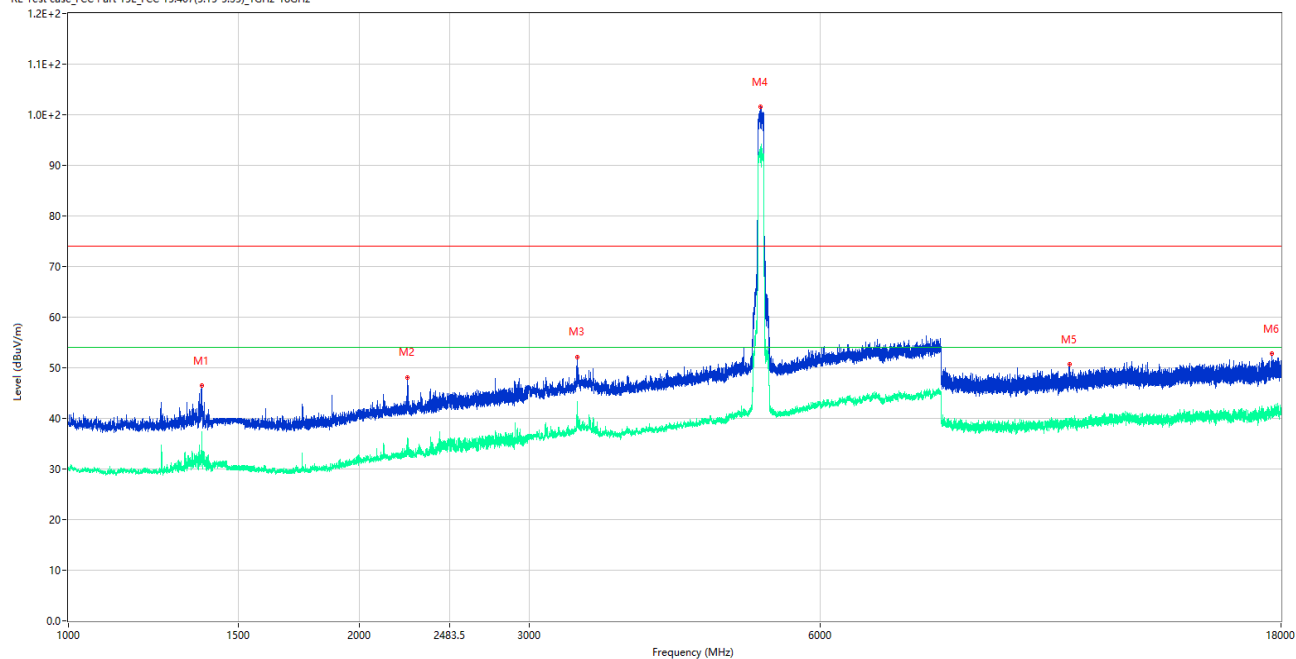
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.750	46.89	-16.16	74.0	27.11	Peak	227.00	150	Horizontal	Pass
1**	1496.750	31.71	-16.16	54.0	22.29	AV	227.00	150	Horizontal	Pass
2	2747.250	47.41	-10.53	74.0	26.59	Peak	54.00	150	Horizontal	Pass
2**	2747.250	35.65	-10.53	54.0	18.35	AV	54.00	150	Horizontal	Pass
3	3941.000	48.80	-4.12	74.0	25.20	Peak	161.00	150	Horizontal	Pass
3**	3941.000	37.83	-4.12	54.0	16.17	AV	161.00	150	Horizontal	Pass
4	5218.500	100.72	-2.37	74.0	-26.72	Peak	259.00	150	Horizontal	N/A
4**	5218.500	92.91	-2.37	54.0	-38.91	AV	259.00	150	Horizontal	N/A
5	9684.350	49.41	-3.74	74.0	24.59	Peak	142.00	150	Horizontal	Pass
5**	9684.350	37.92	-3.74	54.0	16.08	AV	142.00	150	Horizontal	Pass
6	15768.750	51.83	-2.11	74.0	22.17	Peak	360.00	150	Horizontal	Pass
6**	15768.750	41.08	-2.11	54.0	12.92	AV	360.00	150	Horizontal	Pass

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

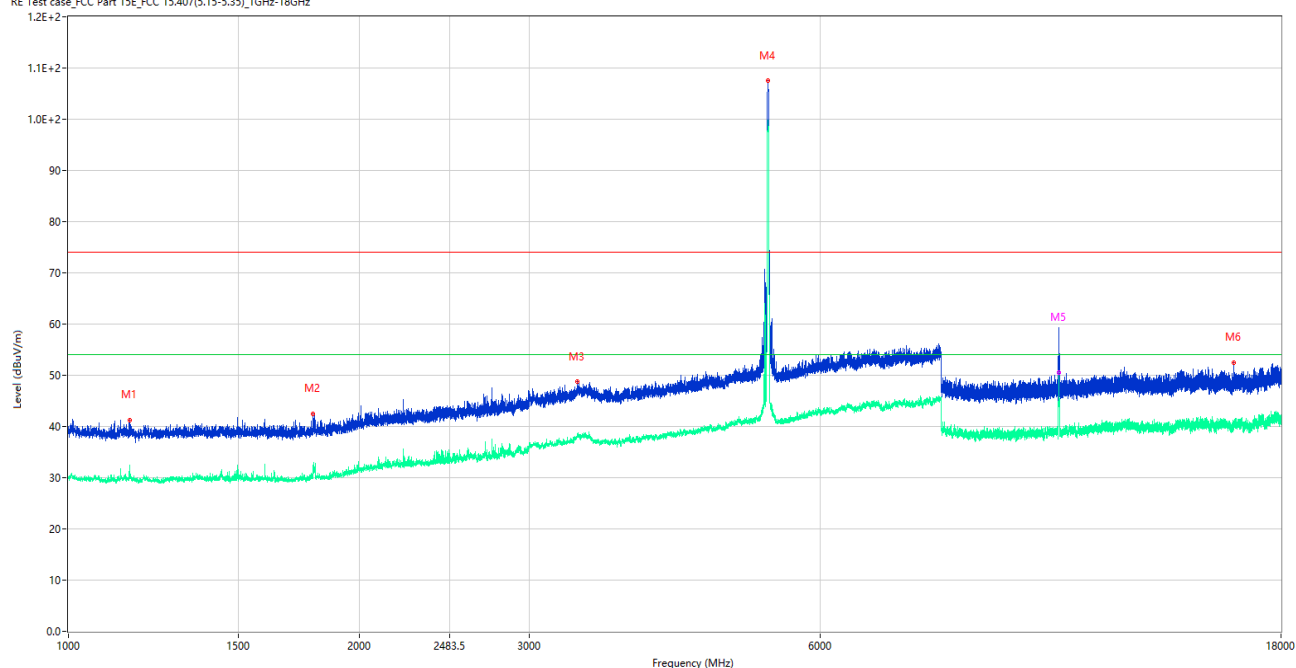
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1374.750	46.47	-16.00	74.0	27.53	Peak	79.00	150	Vertical	Pass
1**	1374.750	32.85	-16.00	54.0	21.15	AV	79.00	150	Vertical	Pass
2	2244.750	48.12	-12.87	74.0	25.88	Peak	89.00	150	Vertical	Pass
2**	2244.750	33.67	-12.87	54.0	20.33	AV	89.00	150	Vertical	Pass
3	3362.500	52.05	-5.50	74.0	21.95	Peak	119.00	150	Vertical	Pass
3**	3362.500	42.62	-5.50	54.0	11.38	AV	119.00	150	Vertical	Pass
4	5204.000	101.53	-2.41	74.0	-27.53	Peak	19.00	150	Vertical	N/A
4**	5204.000	93.43	-2.41	54.0	-39.43	AV	19.00	150	Vertical	N/A
5	10880.874	50.65	-3.23	74.0	23.35	Peak	0.00	150	Vertical	Pass
5**	10880.874	39.24	-3.23	54.0	14.76	AV	0.00	150	Vertical	Pass
6	17617.537	52.73	0.43	74.0	21.27	Peak	320.00	150	Vertical	Pass
6**	17617.537	41.23	0.43	54.0	12.77	AV	320.00	150	Vertical	Pass

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

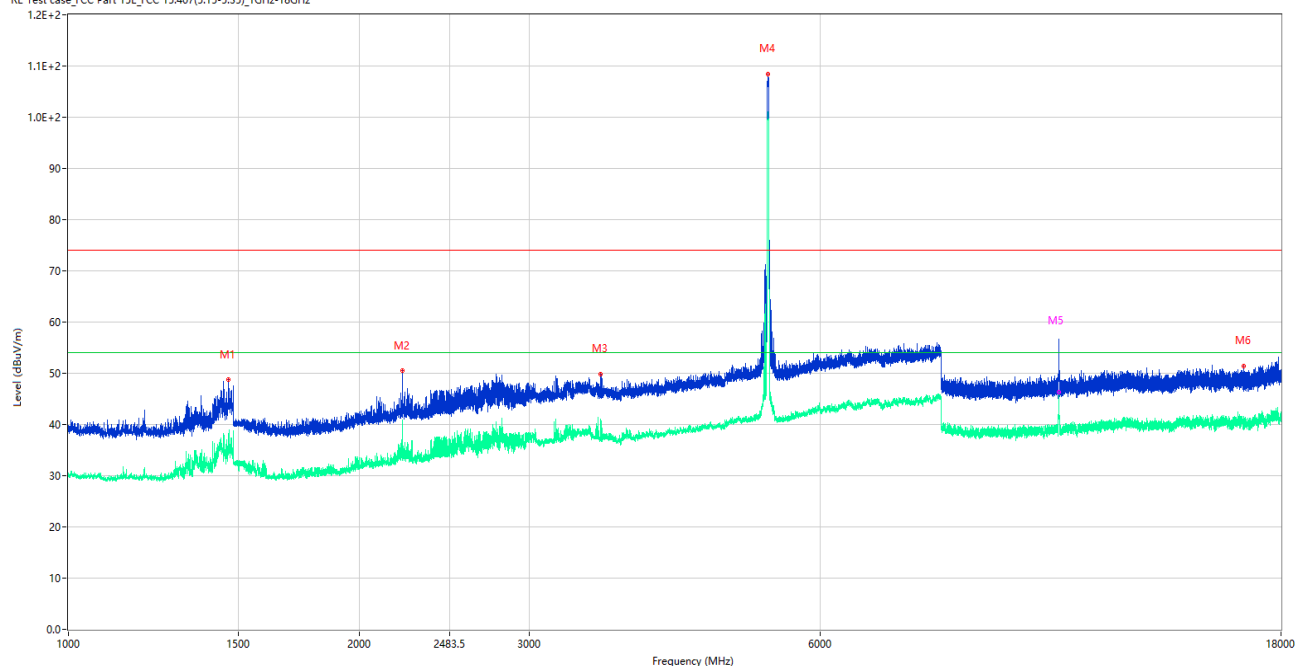
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.750	41.28	-15.58	74.0	32.72	Peak	26.00	150	Horizontal	Pass
1**	1156.750	29.89	-15.58	54.0	24.11	AV	26.00	150	Horizontal	Pass
2	1792.250	42.51	-15.74	74.0	31.49	Peak	86.00	150	Horizontal	Pass
2**	1792.250	31.19	-15.74	54.0	22.81	AV	86.00	150	Horizontal	Pass
3	3364.000	48.70	-5.28	74.0	25.30	Peak	220.00	150	Horizontal	Pass
3**	3364.000	38.23	-5.28	54.0	15.77	AV	220.00	150	Horizontal	Pass
4	5296.500	107.50	-2.01	74.0	-33.50	Peak	220.00	150	Horizontal	N/A
4**	5296.500	98.87	-2.01	54.0	-44.87	AV	220.00	150	Horizontal	N/A
5	10600.863	55.26	-3.67	74.0	18.74	Peak	285.00	150	Horizontal	Pass
5**	10600.863	50.44	-3.67	54.0	3.56	AV	285.00	150	Horizontal	Pass
6	16091.362	52.48	-1.34	74.0	21.52	Peak	254.00	150	Horizontal	Pass
6**	16091.362	40.24	-1.34	54.0	13.76	AV	254.00	150	Horizontal	Pass

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

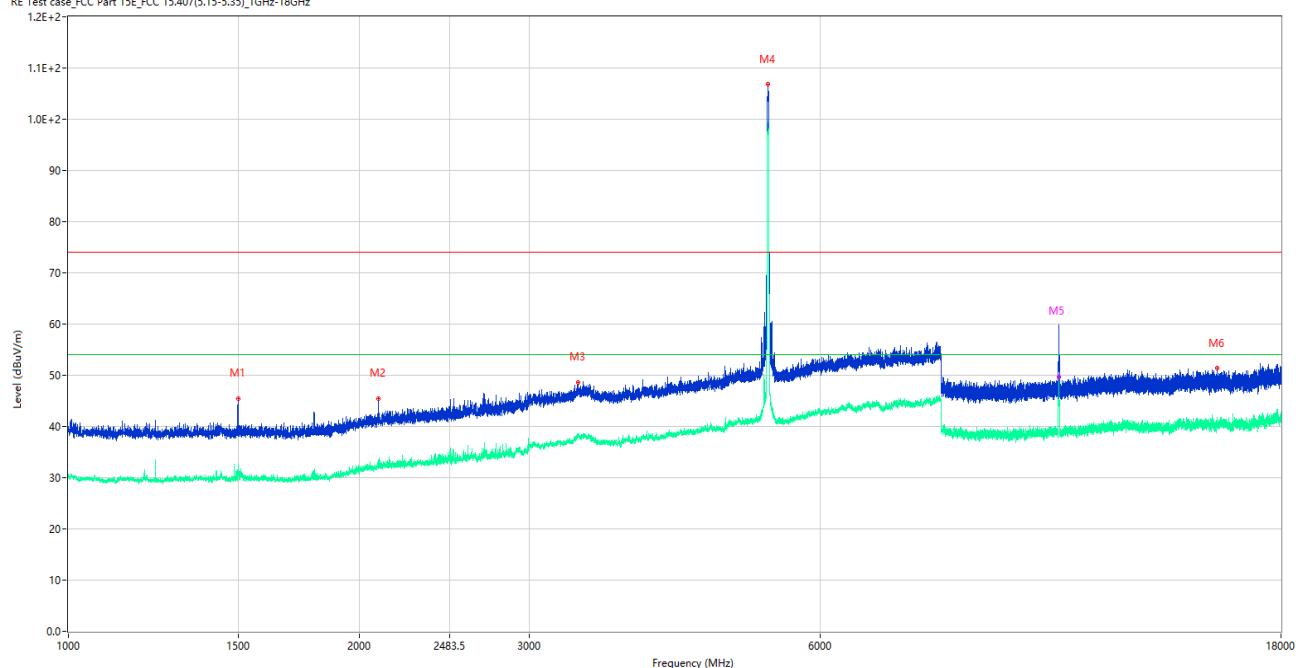
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1465.250	48.83	-16.23	74.0	25.17	Peak	130.00	150	Vertical	Pass
1**	1465.250	37.72	-16.23	54.0	16.28	AV	130.00	150	Vertical	Pass
2	2218.750	50.46	-13.08	74.0	23.54	Peak	69.00	150	Vertical	Pass
2**	2218.750	37.95	-13.08	54.0	16.05	AV	69.00	150	Vertical	Pass
3	3557.500	49.76	-6.67	74.0	24.24	Peak	148.00	150	Vertical	Pass
3**	3557.500	41.03	-6.67	54.0	12.97	AV	148.00	150	Vertical	Pass
4	5301.500	108.46	-2.07	74.0	-34.46	Peak	39.00	150	Vertical	N/A
4**	5301.500	100.64	-2.07	54.0	-46.64	AV	39.00	150	Vertical	N/A
5	10599.675	54.10	-3.67	74.0	19.90	Peak	23.00	150	Vertical	Pass
5**	10599.675	46.39	-3.67	54.0	7.61	AV	23.00	150	Vertical	Pass
6	16461.750	51.45	-1.71	74.0	22.55	Peak	151.00	150	Vertical	Pass
6**	16461.750	41.65	-1.71	54.0	12.35	AV	151.00	150	Vertical	Pass

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

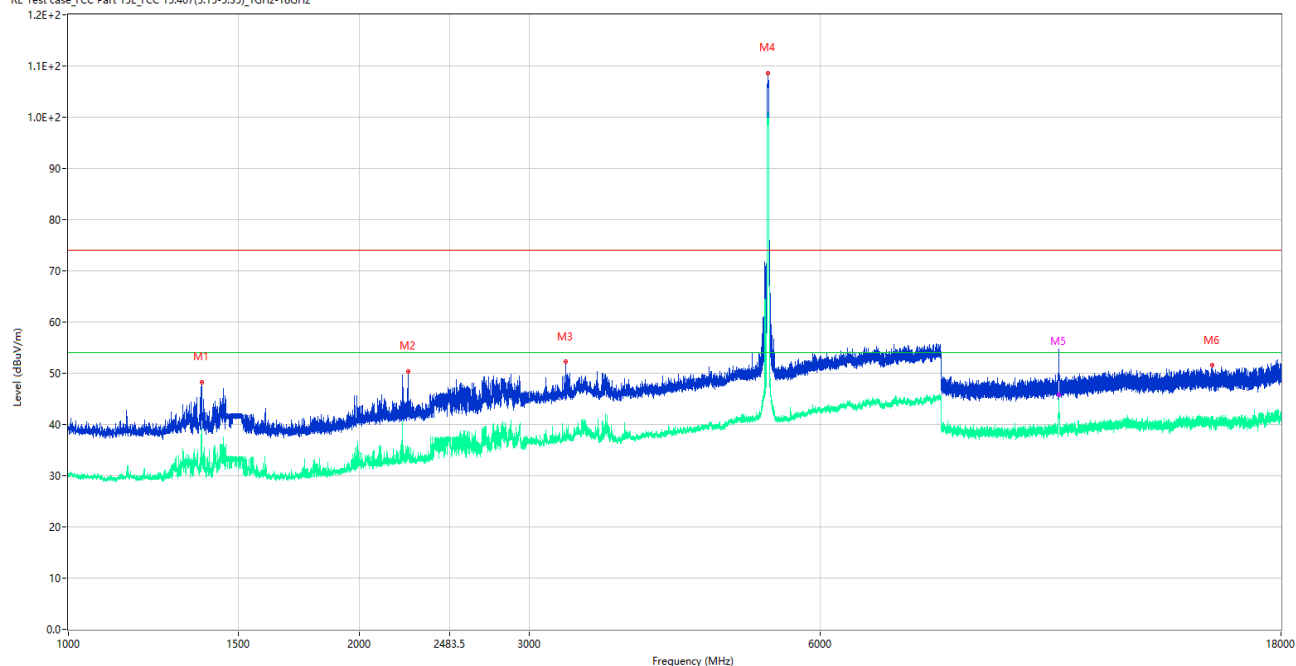
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.000	45.47	-16.14	74.0	28.53	Peak	219.00	150	Horizontal	Pass
1**	1498.000	30.41	-16.14	54.0	23.59	AV	219.00	150	Horizontal	Pass
2	2095.000	45.47	-13.62	74.0	28.53	Peak	17.00	150	Horizontal	Pass
2**	2095.000	32.17	-13.62	54.0	21.83	AV	17.00	150	Horizontal	Pass
3	3371.000	48.54	-4.85	74.0	25.46	Peak	296.00	150	Horizontal	Pass
3**	3371.000	38.03	-4.85	54.0	15.97	AV	296.00	150	Horizontal	Pass
4	5299.000	106.75	-2.01	74.0	-32.75	Peak	255.00	150	Horizontal	N/A
4**	5299.000	99.18	-2.01	54.0	-45.18	AV	255.00	150	Horizontal	N/A
5	10600.150	54.82	-3.67	74.0	19.18	Peak	264.00	150	Horizontal	Pass
5**	10600.150	49.72	-3.67	54.0	4.28	AV	264.00	150	Horizontal	Pass
6	15450.863	51.34	-1.98	74.0	22.66	Peak	14.00	150	Horizontal	Pass
6**	15450.863	41.84	-1.98	54.0	12.16	AV	14.00	150	Horizontal	Pass

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

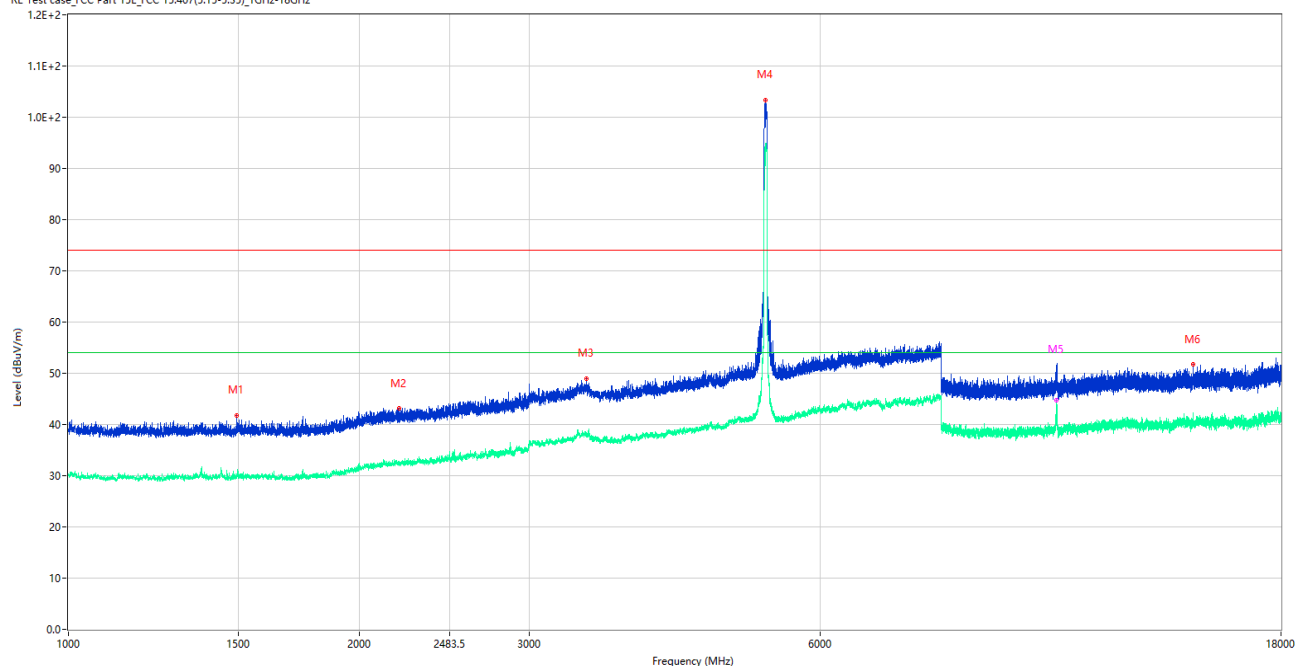
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1374.500	48.21	-16.00	74.0	25.79	Peak	102.00	150	Vertical	Pass
1**	1374.500	39.16	-16.00	54.0	14.84	AV	102.00	150	Vertical	Pass
2	2249.000	50.42	-12.89	74.0	23.58	Peak	98.00	150	Vertical	Pass
2**	2249.000	34.11	-12.89	54.0	19.89	AV	98.00	150	Vertical	Pass
3	3275.000	52.27	-7.01	74.0	21.73	Peak	119.00	150	Vertical	Pass
3**	3275.000	37.78	-7.01	54.0	16.22	AV	119.00	150	Vertical	Pass
4	5298.000	108.62	-2.04	74.0	-34.62	Peak	38.00	150	Vertical	N/A
4**	5298.000	100.41	-2.04	54.0	-46.41	AV	38.00	150	Vertical	N/A
5	10598.725	51.91	-3.67	74.0	22.09	Peak	72.00	150	Vertical	Pass
5**	10598.725	45.80	-3.67	54.0	8.20	AV	72.00	150	Vertical	Pass
6	15263.175	51.54	-1.05	74.0	22.46	Peak	359.00	150	Vertical	Pass
6**	15263.175	40.83	-1.05	54.0	13.17	AV	359.00	150	Vertical	Pass

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

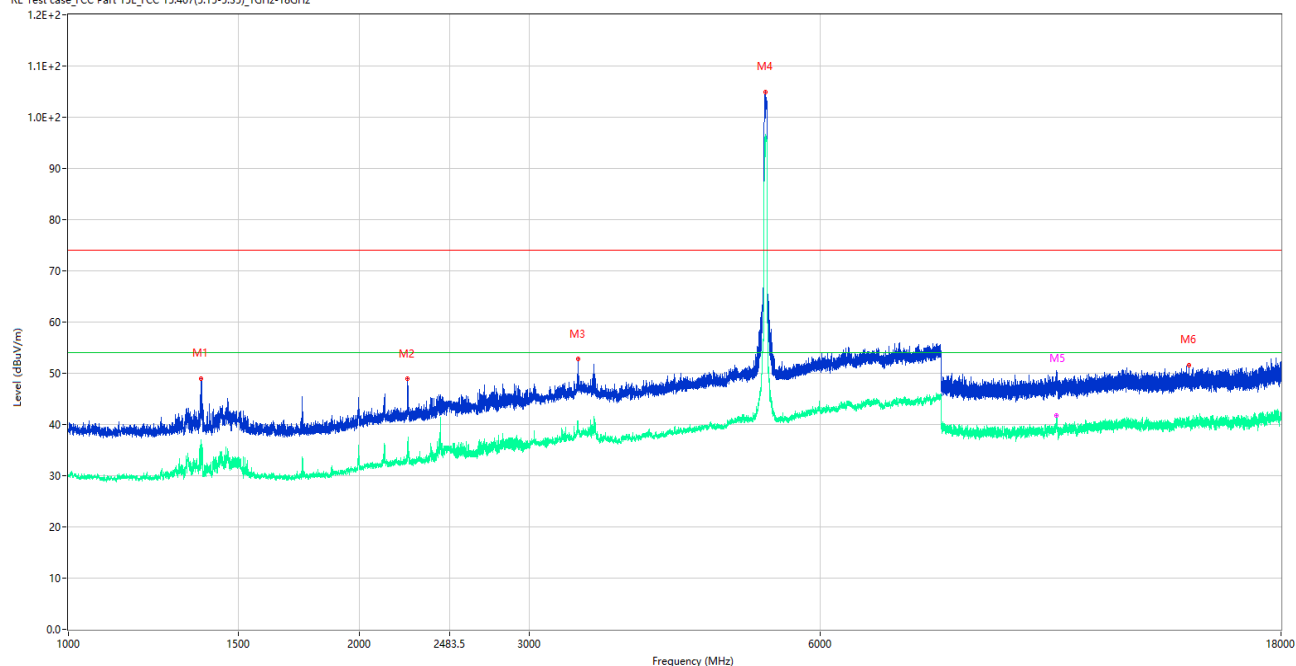
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1494.750	41.83	-16.18	74.0	32.17	Peak	228.00	150	Horizontal	Pass
1**	1494.750	30.24	-16.18	54.0	23.76	AV	228.00	150	Horizontal	Pass
2	2199.250	43.24	-13.31	74.0	30.76	Peak	209.00	150	Horizontal	Pass
2**	2199.250	32.41	-13.31	54.0	21.59	AV	209.00	150	Horizontal	Pass
3	3435.000	48.88	-5.19	74.0	25.12	Peak	137.00	150	Horizontal	Pass
3**	3435.000	37.89	-5.19	54.0	16.11	AV	137.00	150	Horizontal	Pass
4	5272.000	103.37	-2.42	74.0	-29.37	Peak	268.00	150	Horizontal	N/A
4**	5272.000	94.91	-2.42	54.0	-40.91	AV	268.00	150	Horizontal	N/A
5	10538.875	50.51	-3.12	74.0	23.49	Peak	285.00	150	Horizontal	Pass
5**	10538.875	44.78	-3.12	54.0	9.22	AV	285.00	150	Horizontal	Pass
6	14593.013	51.71	-2.09	74.0	22.29	Peak	15.00	150	Horizontal	Pass
6**	14593.013	40.96	-2.09	54.0	13.04	AV	15.00	150	Horizontal	Pass

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

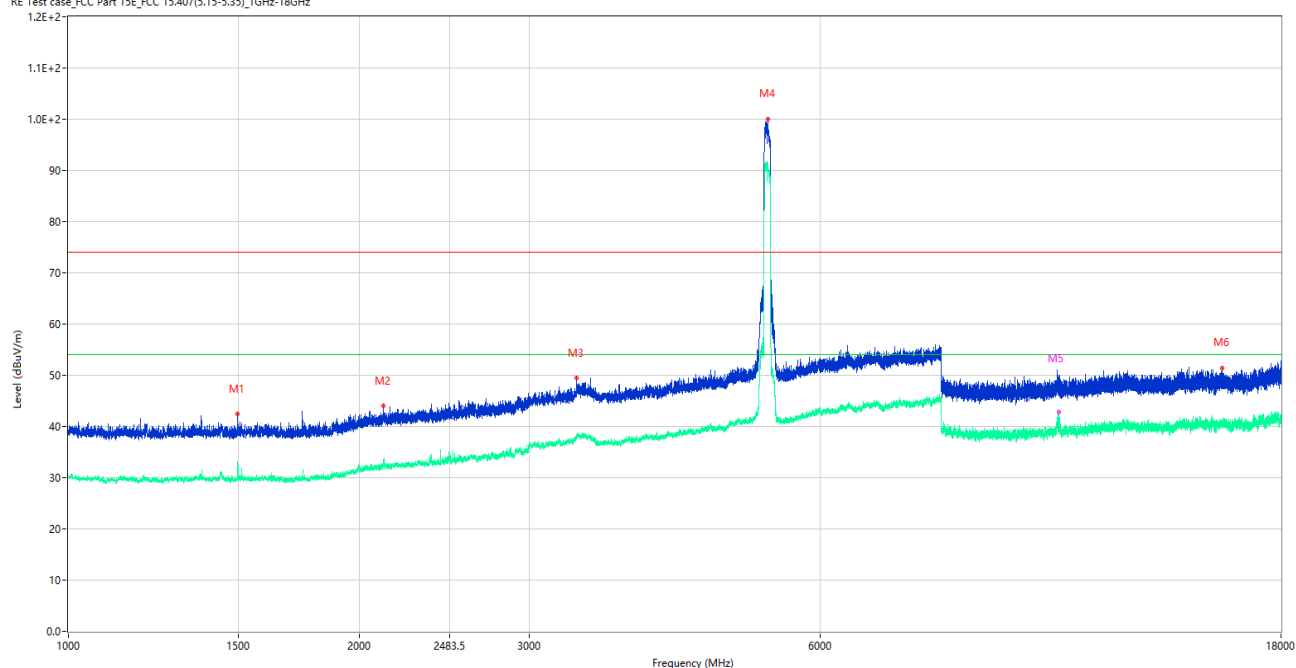
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1372.750	49.00	-15.96	74.0	25.00	Peak	112.00	150	Vertical	Pass
1**	1372.750	32.62	-15.96	54.0	21.38	AV	112.00	150	Vertical	Pass
2	2244.250	48.93	-12.91	74.0	25.07	Peak	94.00	150	Vertical	Pass
2**	2244.250	36.18	-12.91	54.0	17.82	AV	94.00	150	Vertical	Pass
3	3369.500	52.76	-4.87	74.0	21.24	Peak	130.00	150	Vertical	Pass
3**	3369.500	39.34	-4.87	54.0	14.66	AV	130.00	150	Vertical	Pass
4	5266.500	104.95	-2.39	74.0	-30.95	Peak	40.00	150	Vertical	N/A
4**	5266.500	96.27	-2.39	54.0	-42.27	AV	40.00	150	Vertical	N/A
5	10536.738	48.31	-3.29	74.0	25.69	Peak	25.00	150	Vertical	Pass
5**	10536.738	41.80	-3.29	54.0	12.20	AV	25.00	150	Vertical	Pass
6	14456.776	51.65	-2.68	74.0	22.35	Peak	321.00	150	Vertical	Pass
6**	14456.776	40.53	-2.68	54.0	13.47	AV	321.00	150	Vertical	Pass

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

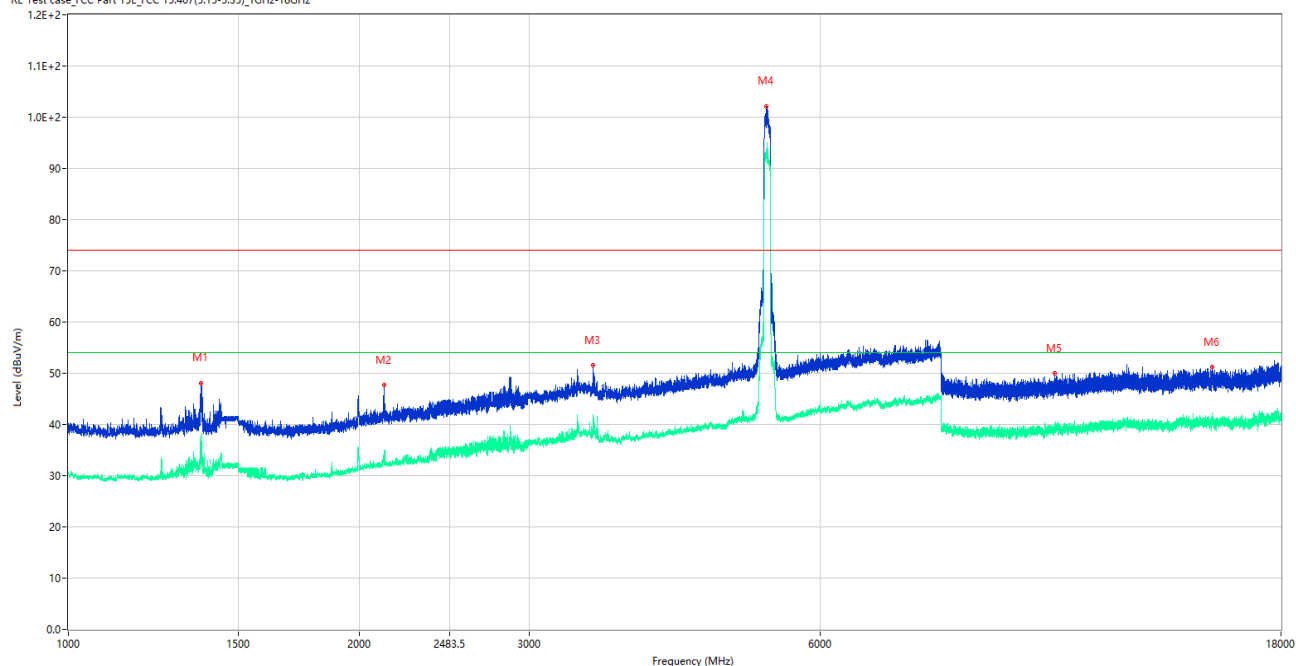
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.250	42.39	-16.17	74.0	31.61	Peak	242.00	150	Horizontal	Pass
1**	1496.250	31.96	-16.17	54.0	22.04	AV	242.00	150	Horizontal	Pass
2	2118.750	44.03	-13.43	74.0	29.97	Peak	10.00	150	Horizontal	Pass
2**	2118.750	32.78	-13.43	54.0	21.22	AV	10.00	150	Horizontal	Pass
3	3354.500	49.42	-6.35	74.0	24.58	Peak	359.00	150	Horizontal	Pass
3**	3354.500	37.79	-6.35	54.0	16.21	AV	359.00	150	Horizontal	Pass
4	5297.500	100.02	-2.03	74.0	-26.02	Peak	264.00	150	Horizontal	N/A
4**	5297.500	90.72	-2.03	54.0	-36.72	AV	264.00	150	Horizontal	N/A
5	10606.800	48.75	-3.68	74.0	25.25	Peak	285.00	150	Horizontal	Pass
5**	10606.800	42.89	-3.68	54.0	11.11	AV	285.00	150	Horizontal	Pass
6	15647.213	51.40	-1.80	74.0	22.60	Peak	0.00	150	Horizontal	Pass
6**	15647.213	40.20	-1.80	54.0	13.80	AV	0.00	150	Horizontal	Pass

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

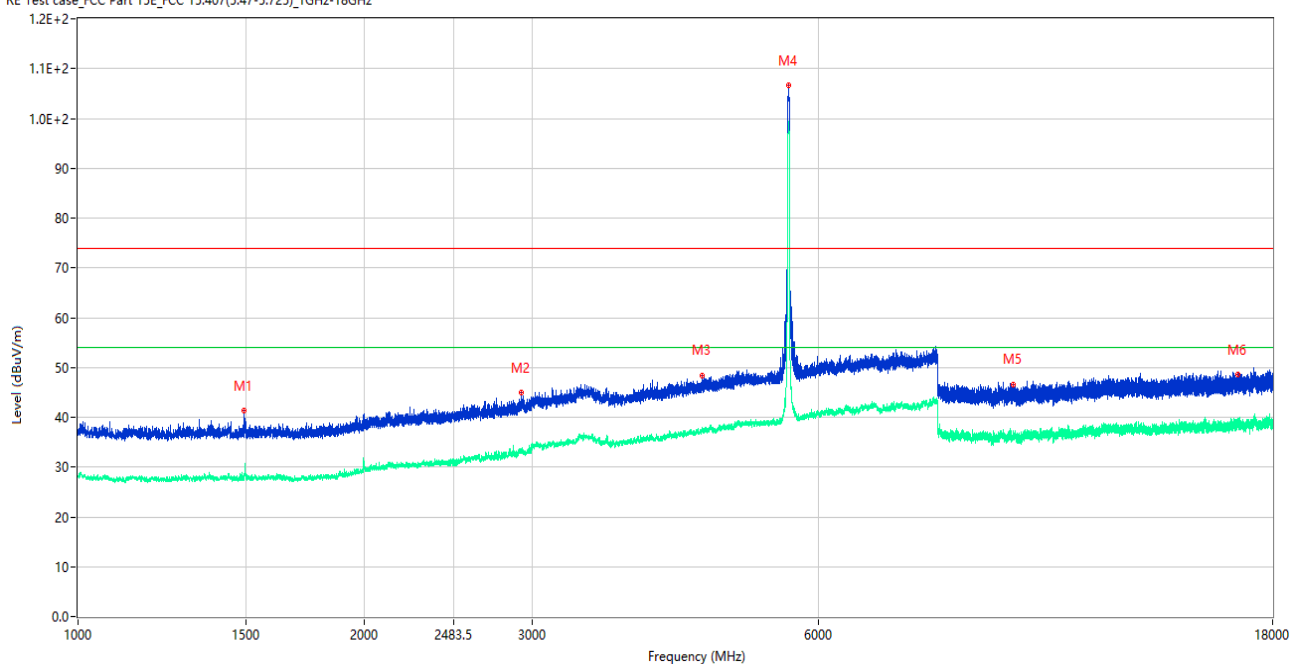
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.000	48.12	-15.97	74.0	25.88	Peak	102.00	150	Vertical	Pass
1**	1373.000	32.88	-15.97	54.0	21.12	AV	102.00	150	Vertical	Pass
2	2124.250	47.71	-13.28	74.0	26.29	Peak	55.00	150	Vertical	Pass
2**	2124.250	32.36	-13.28	54.0	21.64	AV	55.00	150	Vertical	Pass
3	3492.500	51.51	-5.82	74.0	22.49	Peak	100.00	150	Vertical	Pass
3**	3492.500	37.73	-5.82	54.0	16.27	AV	100.00	150	Vertical	Pass
4	5282.500	102.16	-2.23	74.0	-28.16	Peak	29.00	150	Vertical	N/A
4**	5282.500	93.59	-2.23	54.0	-39.59	AV	29.00	150	Vertical	N/A
5	10489.950	49.93	-3.39	74.0	24.07	Peak	215.00	150	Vertical	Pass
5**	10489.950	39.58	-3.39	54.0	14.42	AV	215.00	150	Vertical	Pass
6	15266.588	51.18	-1.02	74.0	22.82	Peak	348.00	150	Vertical	Pass
6**	15266.588	41.23	-1.02	54.0	12.77	AV	348.00	150	Vertical	Pass

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

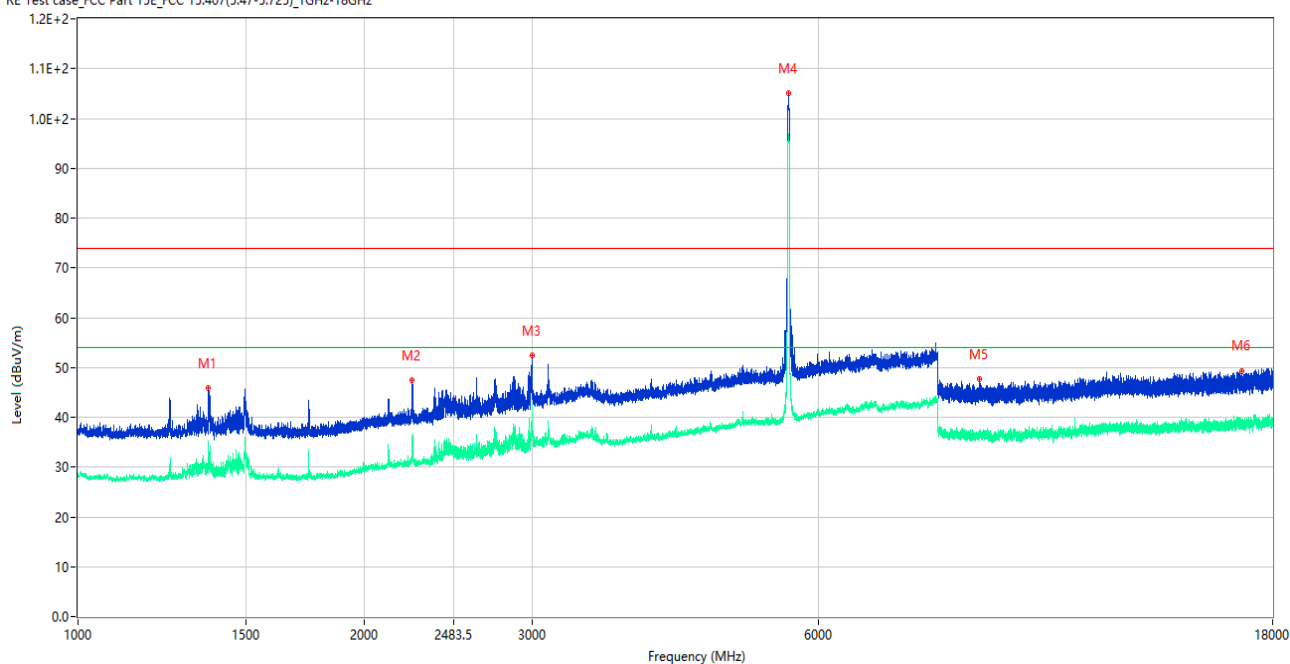
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.750	41.42	-16.17	74.0	32.58	Peak	204.00	150	Horizontal	Pass
1**	1495.750	28.45	-16.17	54.0	25.55	AV	204.00	150	Horizontal	Pass
2	2920.250	45.02	-8.61	74.0	28.98	Peak	115.00	150	Horizontal	Pass
2**	2920.250	33.38	-8.61	54.0	20.62	AV	115.00	150	Horizontal	Pass
3	4532.000	48.46	-2.55	74.0	25.54	Peak	2.00	150	Horizontal	Pass
3**	4532.000	37.27	-2.55	54.0	16.73	AV	2.00	150	Horizontal	Pass
4	5581.000	106.65	-2.85	74.0	-32.65	Peak	9.00	150	Horizontal	N/A
4**	5581.000	98.56	-2.85	54.0	-44.56	AV	9.00	150	Horizontal	N/A
5	9613.338	46.64	-3.27	74.0	27.36	Peak	0.00	150	Horizontal	Pass
5**	9613.338	36.30	-3.27	54.0	17.70	AV	0.00	150	Horizontal	Pass
6	16561.238	48.63	-0.99	74.0	25.37	Peak	345.00	150	Horizontal	Pass
6**	16561.238	38.55	-0.99	54.0	15.45	AV	345.00	150	Horizontal	Pass

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

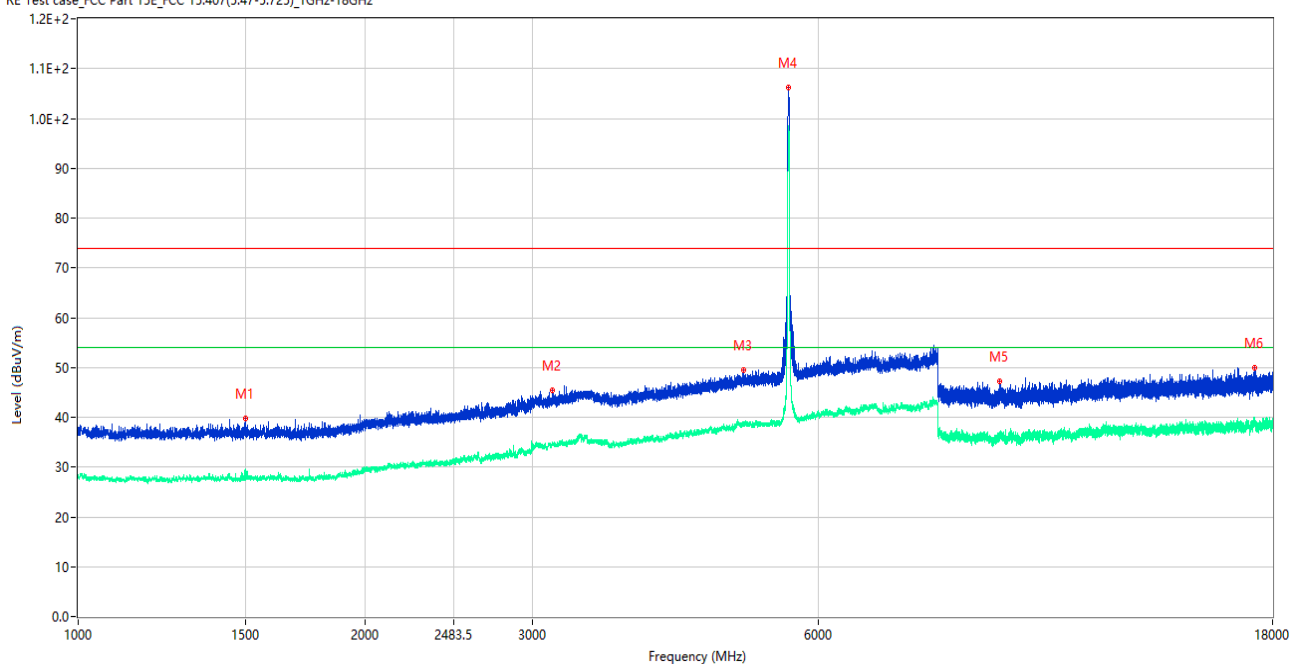
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1370.250	45.86	-15.92	74.0	28.14	Peak	100.00	150	Vertical	Pass
1**	1370.250	34.55	-15.92	54.0	19.45	AV	100.00	150	Vertical	Pass
2	2244.500	47.48	-12.89	74.0	26.52	Peak	84.00	150	Vertical	Pass
2**	2244.500	33.69	-12.89	54.0	20.31	AV	84.00	150	Vertical	Pass
3	2999.750	52.46	-8.74	74.0	21.54	Peak	111.00	150	Vertical	Pass
3**	2999.750	41.79	-8.74	54.0	12.21	AV	111.00	150	Vertical	Pass
4	5578.500	105.12	-2.88	74.0	-31.12	Peak	32.00	150	Vertical	N/A
4**	5578.500	96.54	-2.88	54.0	-42.54	AV	32.00	150	Vertical	N/A
5	8863.313	47.62	-4.82	74.0	26.38	Peak	71.00	150	Vertical	Pass
5**	8863.313	36.45	-4.82	54.0	17.55	AV	71.00	150	Vertical	Pass
6	16702.725	49.36	-1.77	74.0	24.64	Peak	360.00	150	Vertical	Pass
6**	16702.725	38.94	-1.77	54.0	15.06	AV	360.00	150	Vertical	Pass

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

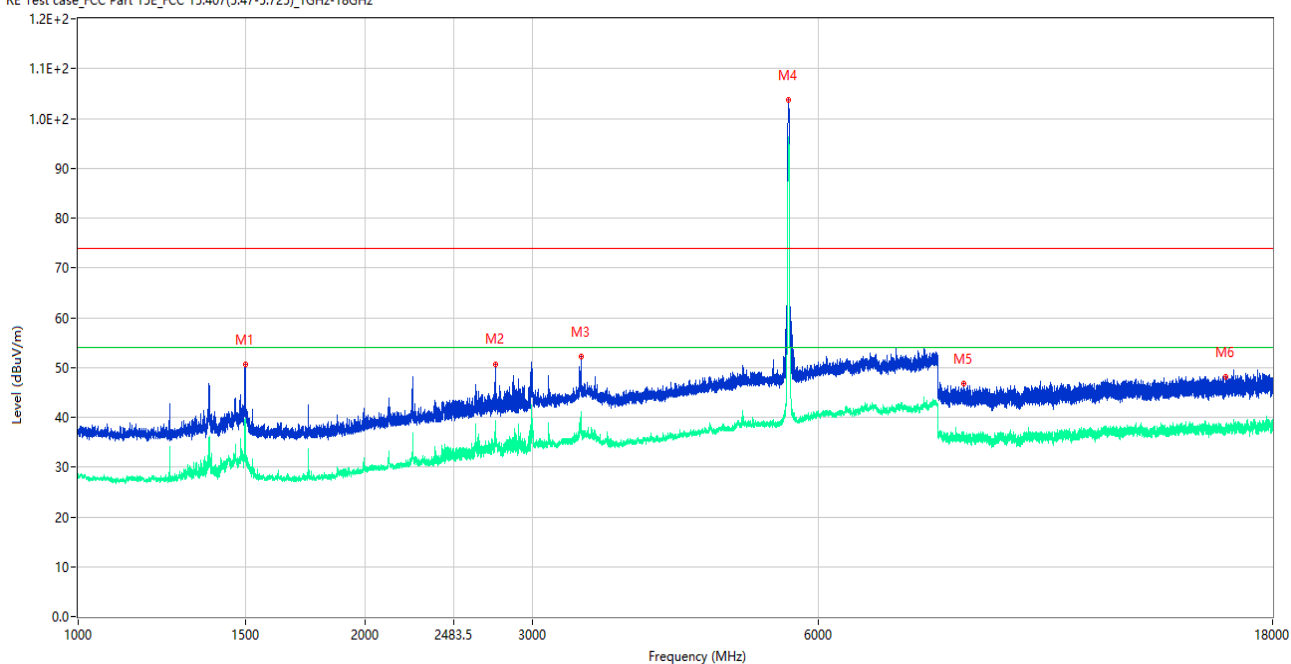
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.000	39.80	-16.14	74.0	34.20	Peak	198.00	150	Horizontal	Pass
1**	1499.000	29.40	-16.14	54.0	24.60	AV	198.00	150	Horizontal	Pass
2	3147.500	45.50	-7.40	74.0	28.50	Peak	72.00	150	Horizontal	Pass
2**	3147.500	34.74	-7.40	54.0	19.26	AV	72.00	150	Horizontal	Pass
3	5007.000	49.53	-2.23	74.0	24.47	Peak	360.00	150	Horizontal	Pass
3**	5007.000	39.06	-2.23	54.0	14.94	AV	360.00	150	Horizontal	Pass
4	5579.000	106.18	-2.87	74.0	-32.18	Peak	22.00	150	Horizontal	N/A
4**	5579.000	98.30	-2.87	54.0	-44.30	AV	22.00	150	Horizontal	N/A
5	9303.400	47.25	-5.43	74.0	26.75	Peak	75.00	150	Horizontal	Pass
5**	9303.400	36.39	-5.43	54.0	17.61	AV	75.00	150	Horizontal	Pass
6	17225.886	50.01	-0.63	74.0	23.99	Peak	245.00	150	Horizontal	Pass
6**	17225.886	38.98	-0.63	54.0	15.02	AV	245.00	150	Horizontal	Pass

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

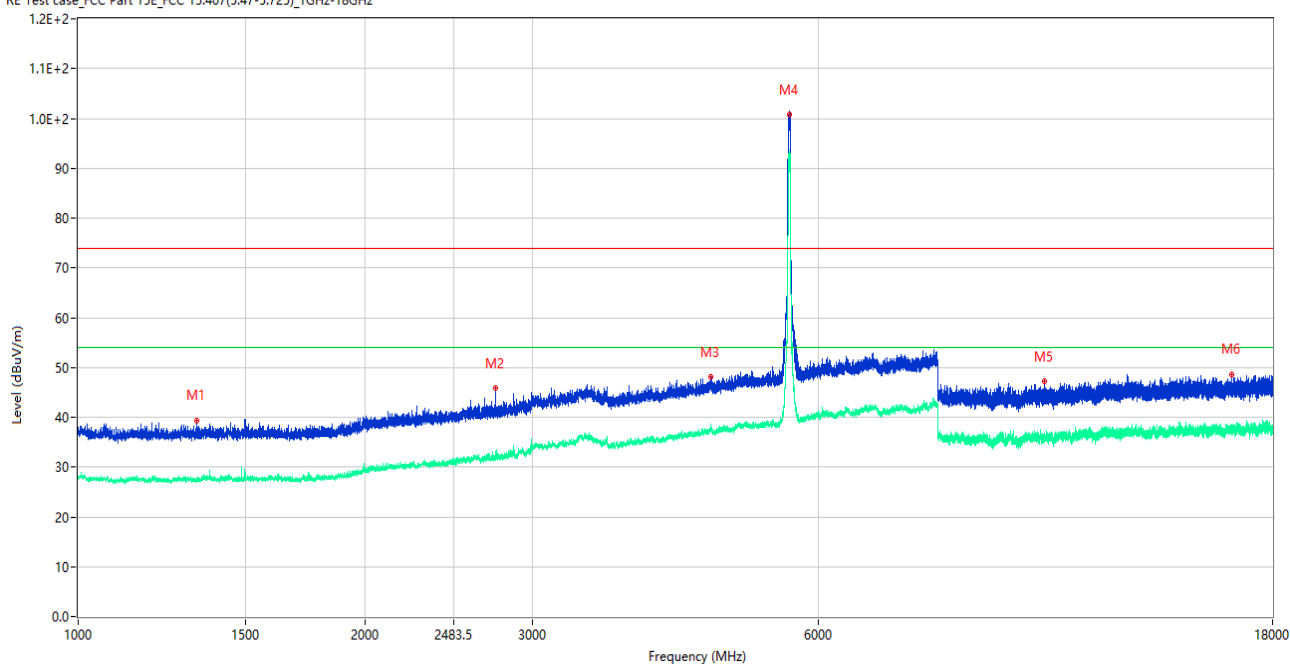
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.500	50.60	-16.13	74.0	23.40	Peak	113.00	150	Vertical	Pass
1**	1498.500	39.04	-16.13	54.0	14.96	AV	113.00	150	Vertical	Pass
2	2744.000	50.63	-10.53	74.0	23.37	Peak	118.00	150	Vertical	Pass
2**	2744.000	36.12	-10.53	54.0	17.88	AV	118.00	150	Vertical	Pass
3	3374.500	52.20	-4.81	74.0	21.80	Peak	104.00	150	Vertical	Pass
3**	3374.500	36.62	-4.81	54.0	17.38	AV	104.00	150	Vertical	Pass
4	5576.000	103.70	-2.94	74.0	-29.70	Peak	34.00	150	Vertical	N/A
4**	5576.000	95.24	-2.94	54.0	-41.24	AV	34.00	150	Vertical	N/A
5	8515.375	46.85	-4.85	74.0	27.15	Peak	51.00	150	Vertical	Pass
5**	8515.375	36.07	-4.85	54.0	17.93	AV	51.00	150	Vertical	Pass
6	16067.738	48.18	-1.31	74.0	25.82	Peak	310.00	150	Vertical	Pass
6**	16067.738	37.36	-1.31	54.0	16.64	AV	310.00	150	Vertical	Pass

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

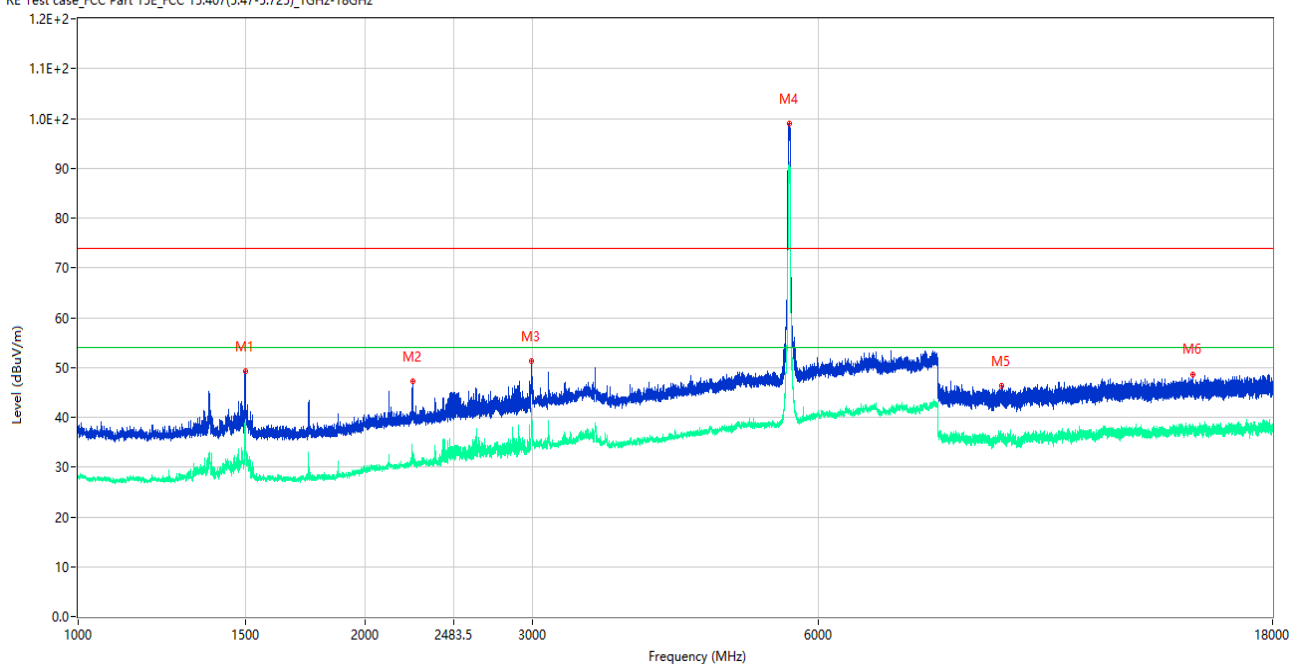
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.750	39.22	-15.99	74.0	34.78	Peak	0.00	150	Horizontal	Pass
1**	1330.750	27.43	-15.99	54.0	26.57	AV	0.00	150	Horizontal	Pass
2	2743.000	45.77	-10.51	74.0	28.23	Peak	28.00	150	Horizontal	Pass
2**	2743.000	31.83	-10.51	54.0	22.17	AV	28.00	150	Horizontal	Pass
3	4624.500	48.07	-2.64	74.0	25.93	Peak	311.00	150	Horizontal	Pass
3**	4624.500	37.58	-2.64	54.0	16.42	AV	311.00	150	Horizontal	Pass
4	5594.000	100.38	-2.82	74.0	-26.38	Peak	360.00	150	Horizontal	N/A
4**	5594.000	92.37	-2.82	54.0	-38.37	AV	360.00	150	Horizontal	N/A
5	10359.326	47.22	-3.18	74.0	26.78	Peak	217.00	150	Horizontal	Pass
5**	10359.326	35.36	-3.18	54.0	18.64	AV	217.00	150	Horizontal	Pass
6	16288.238	48.68	-1.46	74.0	25.32	Peak	360.00	150	Horizontal	Pass
6**	16288.238	37.88	-1.46	54.0	16.12	AV	360.00	150	Horizontal	Pass

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

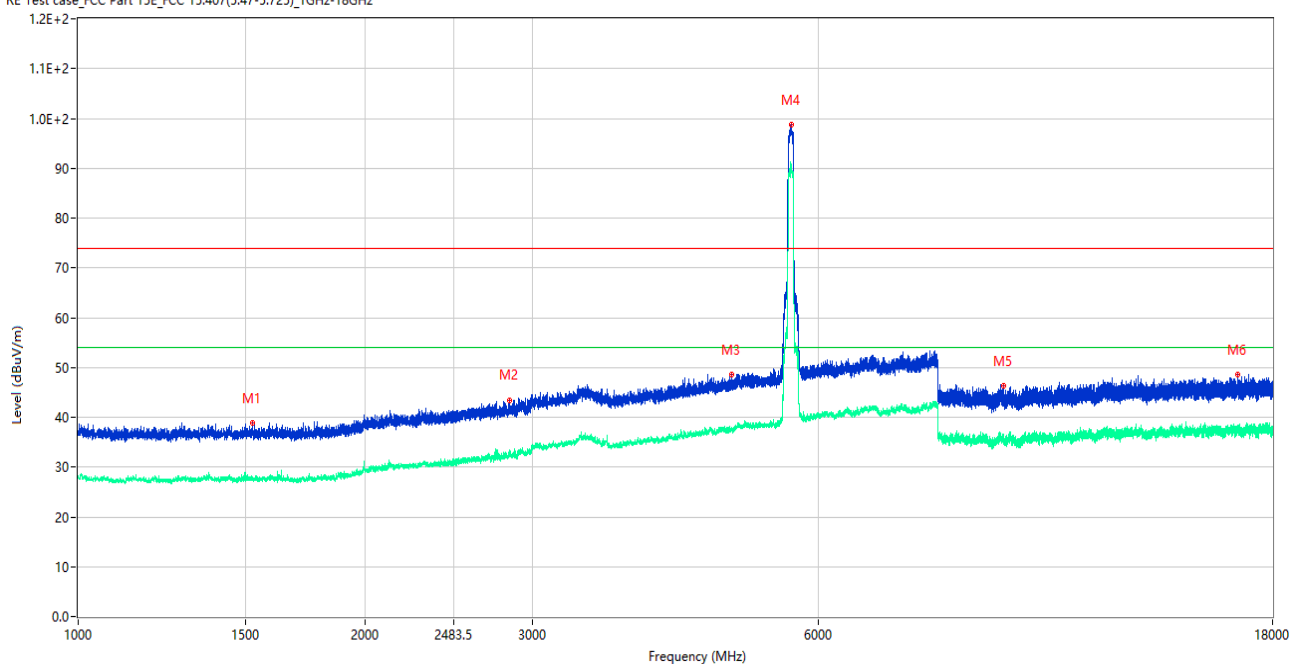
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.500	49.27	-16.13	74.0	24.73	Peak	109.00	150	Vertical	Pass
1**	1498.500	38.34	-16.13	54.0	15.66	AV	109.00	150	Vertical	Pass
2	2246.000	47.29	-12.83	74.0	26.71	Peak	72.00	150	Vertical	Pass
2**	2246.000	31.04	-12.83	54.0	22.96	AV	72.00	150	Vertical	Pass
3	2992.250	51.39	-9.05	74.0	22.61	Peak	105.00	150	Vertical	Pass
3**	2992.250	37.18	-9.05	54.0	16.82	AV	105.00	150	Vertical	Pass
4	5588.000	98.91	-2.82	74.0	-24.91	Peak	34.00	150	Vertical	N/A
4**	5588.000	91.13	-2.82	54.0	-37.13	AV	34.00	150	Vertical	N/A
5	9339.025	46.22	-5.16	74.0	27.78	Peak	28.00	150	Vertical	Pass
5**	9339.025	35.60	-5.16	54.0	18.40	AV	28.00	150	Vertical	Pass
6	14834.513	48.68	-0.30	74.0	25.32	Peak	360.00	150	Vertical	Pass
6**	14834.513	38.08	-0.30	54.0	15.92	AV	360.00	150	Vertical	Pass

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

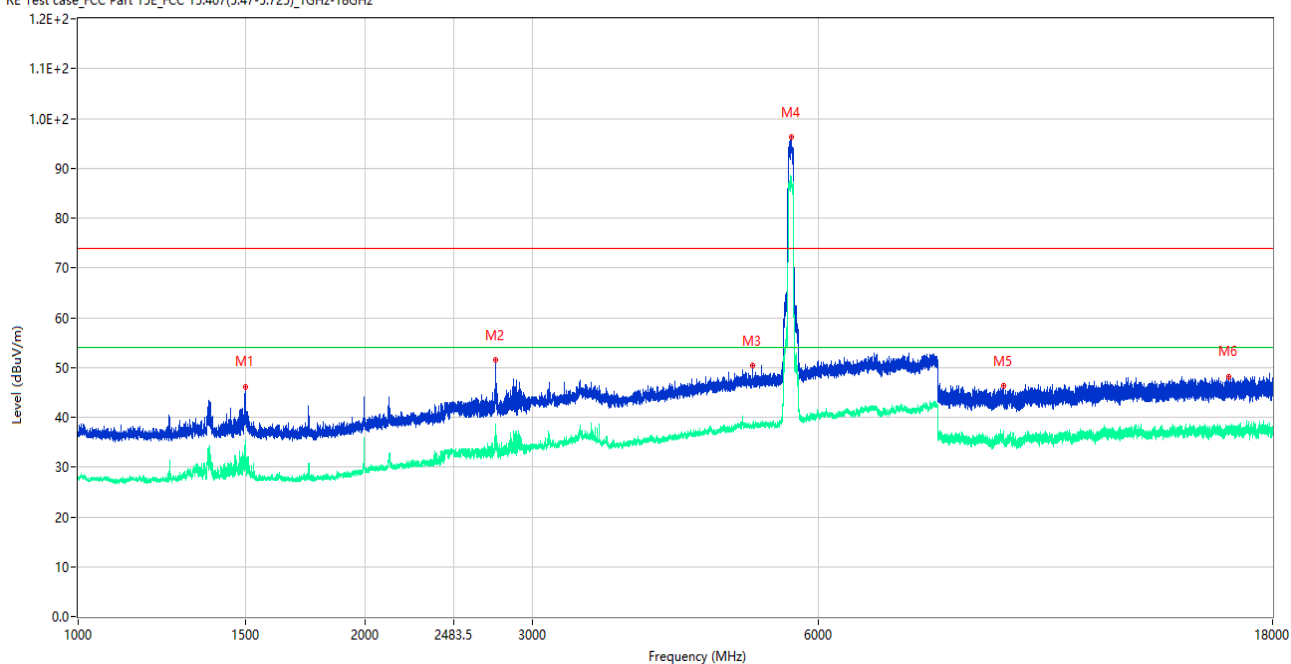
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1526.000	38.82	-16.06	74.0	35.18	Peak	28.00	150	Horizontal	Pass
1**	1526.000	27.54	-16.06	54.0	26.46	AV	28.00	150	Horizontal	Pass
2	2838.750	43.43	-9.51	74.0	30.57	Peak	37.00	150	Horizontal	Pass
2**	2838.750	32.14	-9.51	54.0	21.86	AV	37.00	150	Horizontal	Pass
3	4856.500	48.53	-2.11	74.0	25.47	Peak	253.00	150	Horizontal	Pass
3**	4856.500	37.24	-2.11	54.0	16.76	AV	253.00	150	Horizontal	Pass
4	5617.000	98.68	-2.35	74.0	-24.68	Peak	18.00	150	Horizontal	N/A
4**	5617.000	90.38	-2.35	54.0	-36.38	AV	18.00	150	Horizontal	N/A
5	9381.300	46.25	-4.65	74.0	27.75	Peak	240.00	150	Horizontal	Pass
5**	9381.300	36.03	-4.65	54.0	17.97	AV	240.00	150	Horizontal	Pass
6	16562.025	48.52	-1.04	74.0	25.48	Peak	245.00	150	Horizontal	Pass
6**	16562.025	37.34	-1.04	54.0	16.66	AV	245.00	150	Horizontal	Pass

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

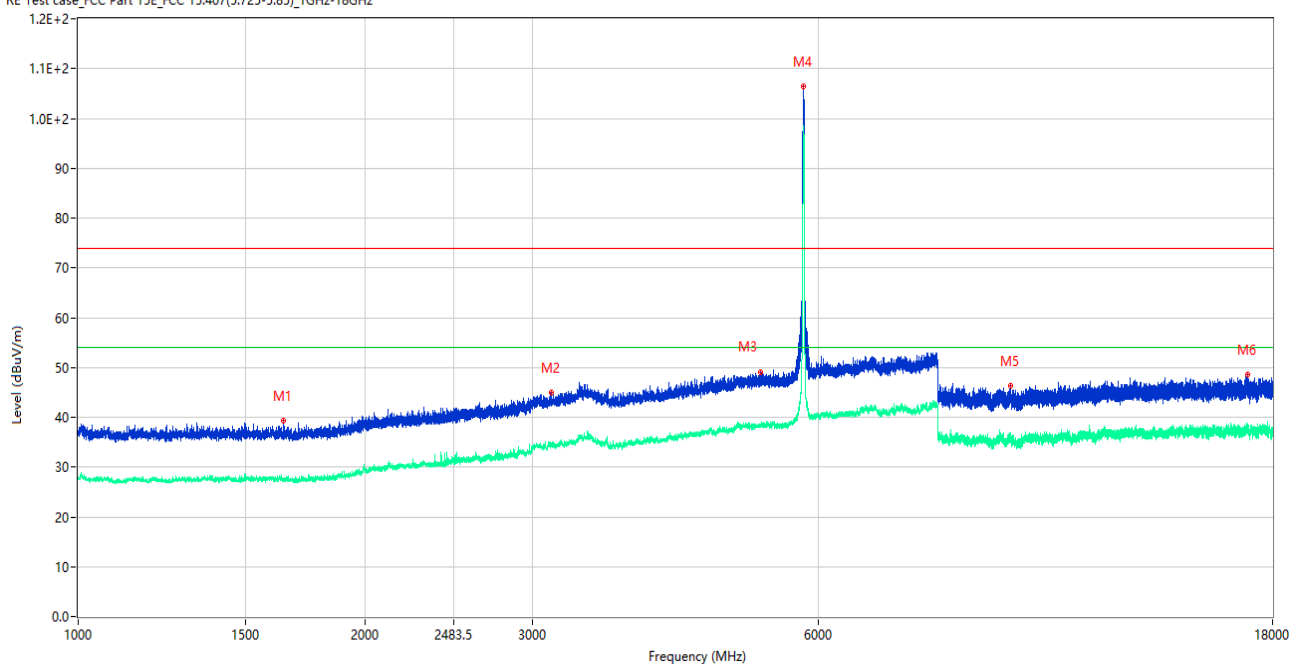
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.750	46.20	-16.14	74.0	27.80	Peak	117.00	150	Vertical	Pass
1**	1498.750	32.94	-16.14	54.0	21.06	AV	117.00	150	Vertical	Pass
2	2746.500	51.46	-10.52	74.0	22.54	Peak	273.00	150	Vertical	Pass
2**	2746.500	33.44	-10.52	54.0	20.56	AV	273.00	150	Vertical	Pass
3	5111.000	50.44	-2.53	74.0	23.56	Peak	94.00	150	Vertical	Pass
3**	5111.000	38.81	-2.53	54.0	15.19	AV	94.00	150	Vertical	Pass
4	5615.000	96.19	-2.37	74.0	-22.19	Peak	37.00	150	Vertical	N/A
4**	5615.000	87.88	-2.37	54.0	-33.88	AV	37.00	150	Vertical	N/A
5	9384.863	46.35	-4.52	74.0	27.65	Peak	0.00	150	Vertical	Pass
5**	9384.863	35.78	-4.52	54.0	18.22	AV	0.00	150	Vertical	Pass
6	16174.050	48.06	-0.96	74.0	25.94	Peak	0.00	150	Vertical	Pass
6**	16174.050	37.34	-0.96	54.0	16.66	AV	0.00	150	Vertical	Pass

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

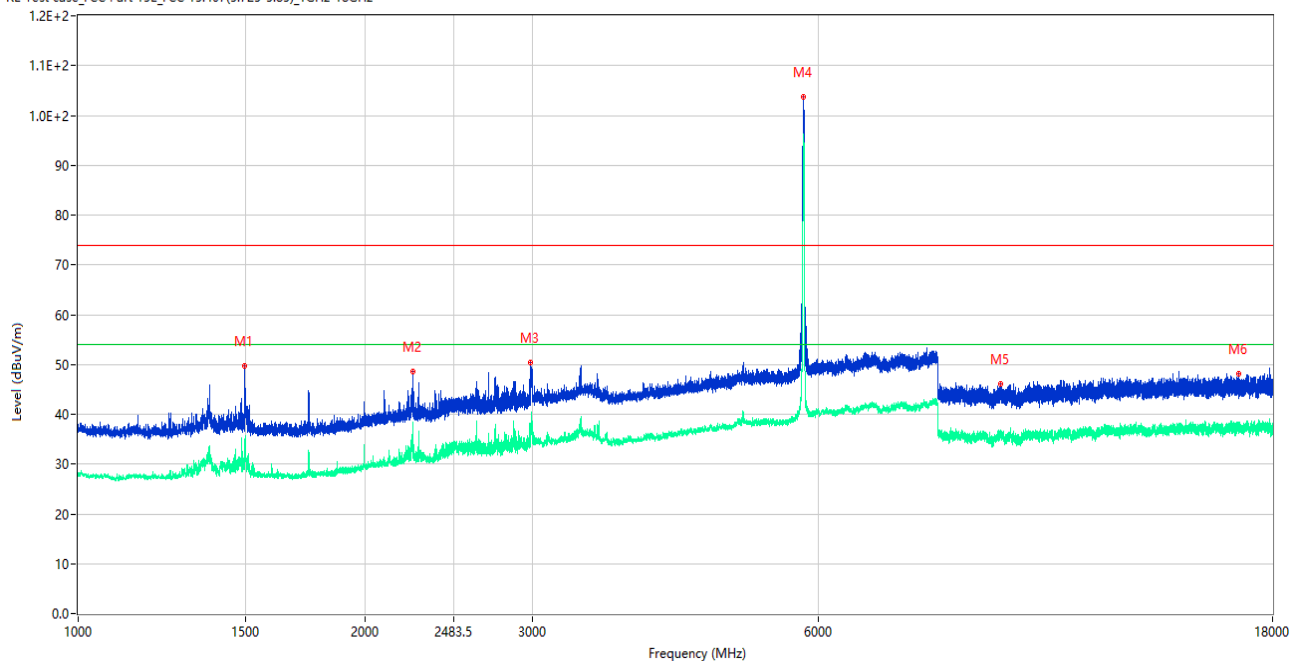
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1644.000	39.22	-16.27	74.0	34.78	Peak	46.00	150	Horizontal	Pass
1**	1644.000	27.27	-16.27	54.0	26.73	AV	46.00	150	Horizontal	Pass
2	3142.500	44.97	-7.67	74.0	29.03	Peak	329.00	150	Horizontal	Pass
2**	3142.500	33.94	-7.67	54.0	20.06	AV	329.00	150	Horizontal	Pass
3	5215.000	48.98	-2.34	74.0	25.02	Peak	360.00	150	Horizontal	Pass
3**	5215.000	38.02	-2.34	54.0	15.98	AV	360.00	150	Horizontal	Pass
4	5783.500	106.36	-1.54	74.0	-32.36	Peak	200.00	150	Horizontal	N/A
4**	5783.500	98.12	-1.54	54.0	-44.12	AV	200.00	150	Horizontal	N/A
5	9549.213	46.23	-2.52	74.0	27.77	Peak	145.00	150	Horizontal	Pass
5**	9549.213	36.33	-2.52	54.0	17.67	AV	145.00	150	Horizontal	Pass
6	16954.724	48.61	-1.05	74.0	25.39	Peak	360.00	150	Horizontal	Pass
6**	16954.724	37.03	-1.05	54.0	16.97	AV	360.00	150	Horizontal	Pass

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

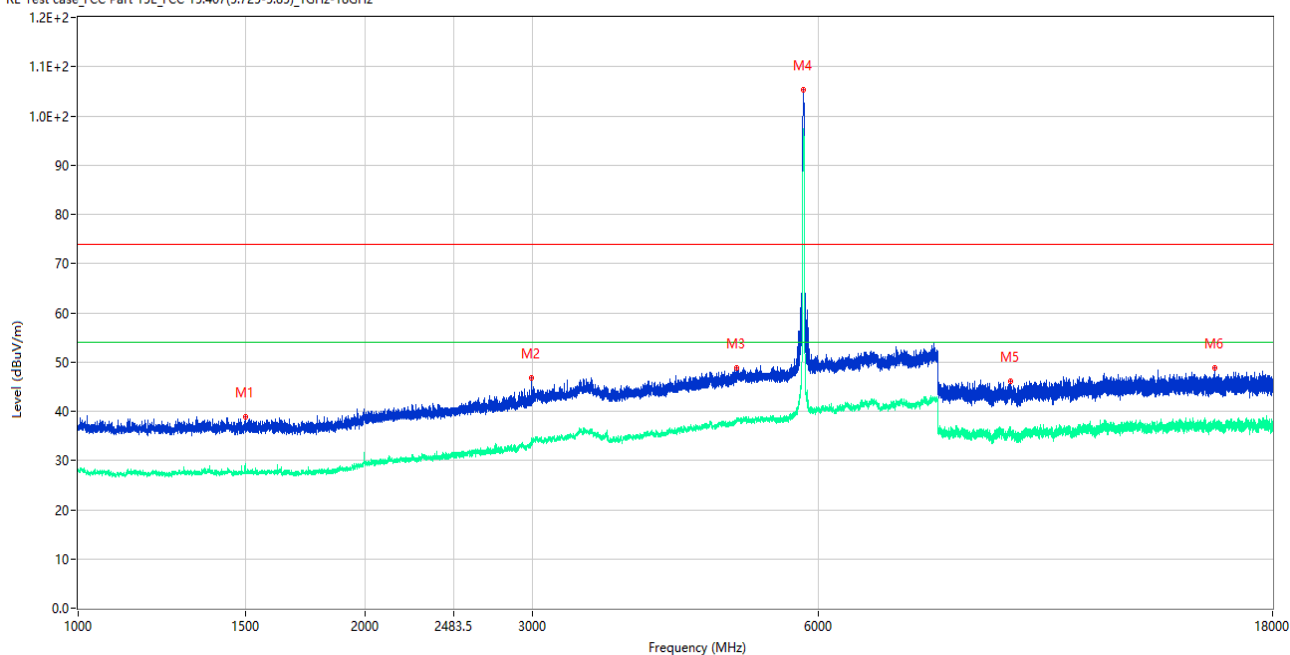
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.000	49.67	-16.17	74.0	24.33	Peak	120.00	150	Vertical	Pass
1**	1495.000	28.94	-16.17	54.0	25.06	AV	120.00	150	Vertical	Pass
2	2248.000	48.48	-12.85	74.0	25.52	Peak	46.00	150	Vertical	Pass
2**	2248.000	36.29	-12.85	54.0	17.71	AV	46.00	150	Vertical	Pass
3	2989.250	50.44	-9.27	74.0	23.56	Peak	104.00	150	Vertical	Pass
3**	2989.250	36.95	-9.27	54.0	17.05	AV	104.00	150	Vertical	Pass
4	5781.500	103.71	-1.53	74.0	-29.71	Peak	280.00	150	Vertical	N/A
4**	5781.500	95.25	-1.53	54.0	-41.25	AV	280.00	150	Vertical	N/A
5	9326.675	46.01	-5.19	74.0	27.99	Peak	6.00	150	Vertical	Pass
5**	9326.675	35.80	-5.19	54.0	18.20	AV	6.00	150	Vertical	Pass
6	16570.162	48.11	-0.86	74.0	25.89	Peak	0.00	150	Vertical	Pass
6**	16570.162	38.10	-0.86	54.0	15.90	AV	0.00	150	Vertical	Pass

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

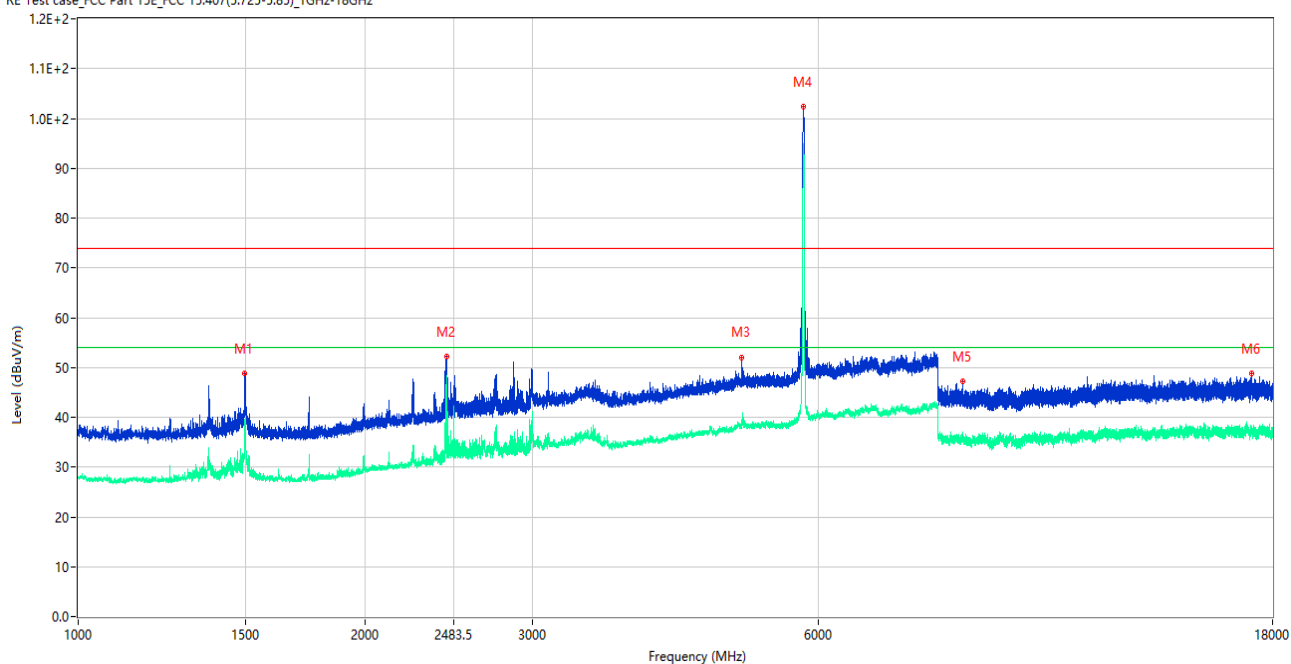
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.500	38.90	-16.13	74.0	35.10	Peak	0.00	150	Horizontal	Pass
1**	1498.500	27.48	-16.13	54.0	26.52	AV	0.00	150	Horizontal	Pass
2	2994.750	46.80	-8.91	74.0	27.20	Peak	160.00	150	Horizontal	Pass
2**	2994.750	33.23	-8.91	54.0	20.77	AV	160.00	150	Horizontal	Pass
3	4926.500	48.88	-2.29	74.0	25.12	Peak	249.00	150	Horizontal	Pass
3**	4926.500	38.11	-2.29	54.0	15.89	AV	249.00	150	Horizontal	Pass
4	5783.500	105.29	-1.54	74.0	-31.29	Peak	199.00	150	Horizontal	N/A
4**	5783.500	97.43	-1.54	54.0	-43.43	AV	199.00	150	Horizontal	N/A
5	9546.125	46.06	-2.52	74.0	27.94	Peak	51.00	150	Horizontal	Pass
5**	9546.125	36.22	-2.52	54.0	17.78	AV	51.00	150	Horizontal	Pass
6	15669.000	48.82	-1.37	74.0	25.18	Peak	1.00	150	Horizontal	Pass
6**	15669.000	38.03	-1.37	54.0	15.97	AV	1.00	150	Horizontal	Pass

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

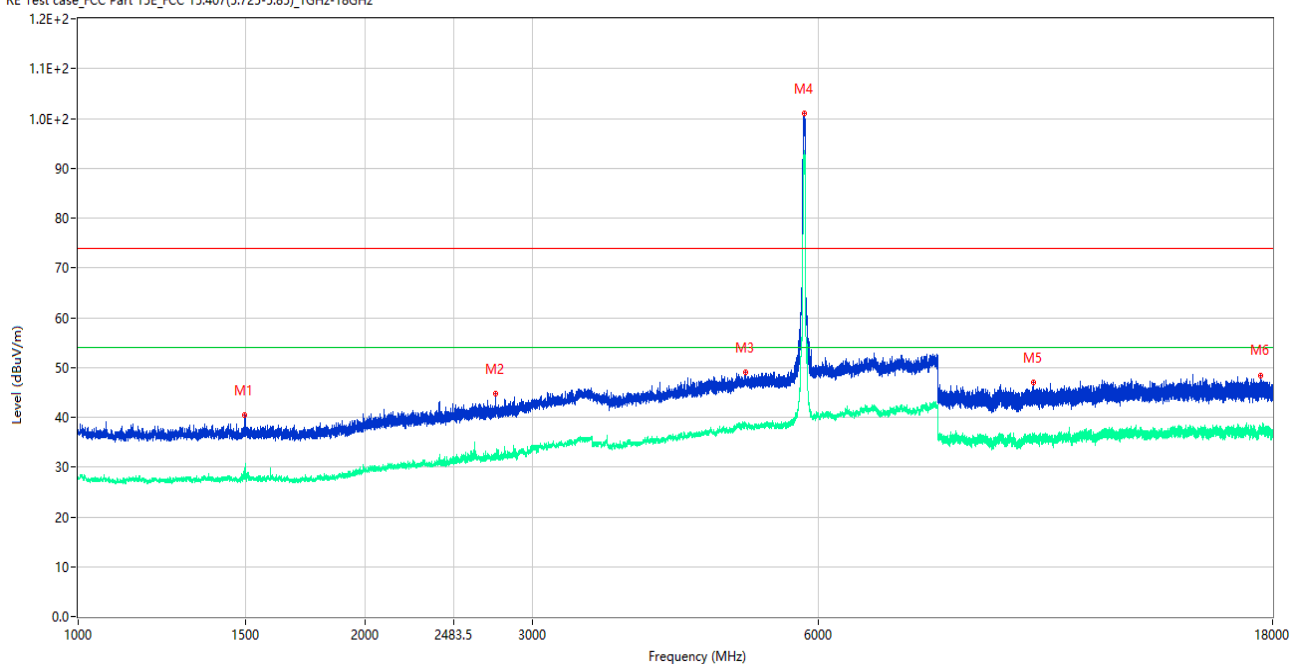
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.000	48.82	-16.15	74.0	25.18	Peak	120.00	150	Vertical	Pass
1**	1497.000	38.88	-16.15	54.0	15.12	AV	120.00	150	Vertical	Pass
2	2438.000	52.15	-12.38	74.0	21.85	Peak	52.00	150	Vertical	Pass
2**	2438.000	48.11	-12.38	54.0	5.89	AV	52.00	150	Vertical	Pass
3	4984.500	52.06	-2.51	74.0	21.94	Peak	360.00	150	Vertical	Pass
3**	4984.500	38.80	-2.51	54.0	15.20	AV	360.00	150	Vertical	Pass
4	5783.500	102.37	-1.54	74.0	-28.37	Peak	273.00	150	Vertical	N/A
4**	5783.500	94.23	-1.54	54.0	-40.23	AV	273.00	150	Vertical	N/A
5	8503.025	47.15	-4.64	74.0	26.85	Peak	288.00	150	Vertical	Pass
5**	8503.025	36.37	-4.64	54.0	17.63	AV	288.00	150	Vertical	Pass
6	17095.162	48.78	-0.72	74.0	25.22	Peak	278.00	150	Vertical	Pass
6**	17095.162	37.75	-0.72	54.0	16.25	AV	278.00	150	Vertical	Pass

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

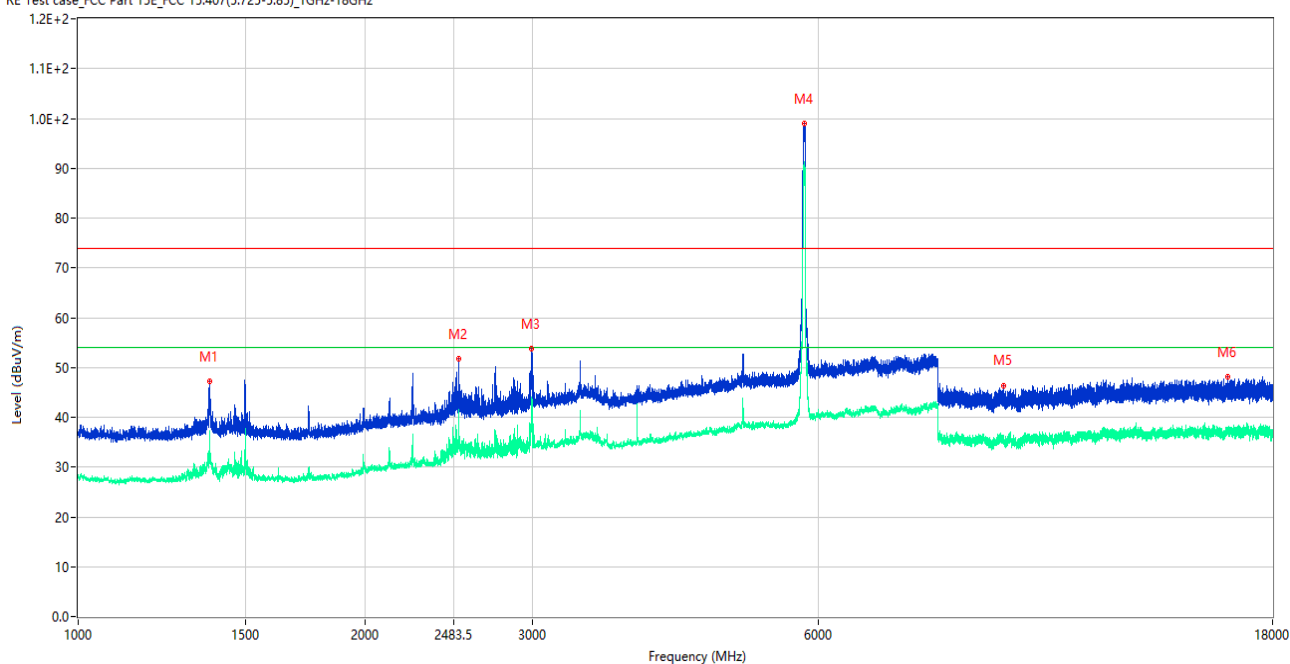
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.500	40.35	-16.17	74.0	33.65	Peak	0.00	150	Horizontal	Pass
1**	1496.500	28.87	-16.17	54.0	25.13	AV	0.00	150	Horizontal	Pass
2	2746.000	44.70	-10.53	74.0	29.30	Peak	158.00	150	Horizontal	Pass
2**	2746.000	32.08	-10.53	54.0	21.92	AV	158.00	150	Horizontal	Pass
3	5023.000	49.08	-2.13	74.0	24.92	Peak	87.00	150	Horizontal	Pass
3**	5023.000	38.50	-2.13	54.0	15.50	AV	87.00	150	Horizontal	Pass
4	5799.000	101.03	-1.43	74.0	-27.03	Peak	196.00	150	Horizontal	N/A
4**	5799.000	93.11	-1.43	54.0	-39.11	AV	196.00	150	Horizontal	N/A
5	10086.674	47.05	-4.03	74.0	26.95	Peak	144.00	150	Horizontal	Pass
5**	10086.674	35.32	-4.03	54.0	18.68	AV	144.00	150	Horizontal	Pass
6	17507.025	48.33	0.26	74.0	25.67	Peak	243.00	150	Horizontal	Pass
6**	17507.025	37.01	0.26	54.0	16.99	AV	243.00	150	Horizontal	Pass

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

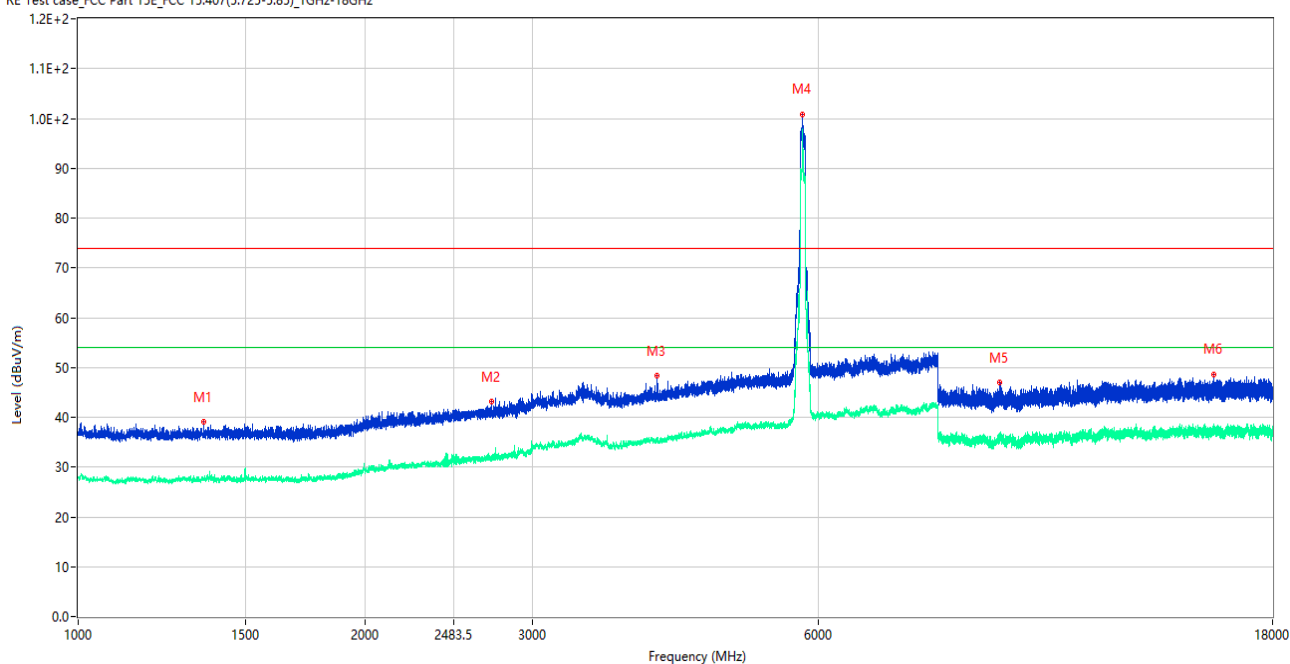
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.250	47.24	-15.98	74.0	26.76	Peak	99.00	150	Vertical	Pass
1**	1373.250	34.46	-15.98	54.0	19.54	AV	99.00	150	Vertical	Pass
2	2509.250	51.80	-11.91	74.0	22.20	Peak	89.00	150	Vertical	Pass
2**	2509.250	34.76	-11.91	54.0	19.24	AV	89.00	150	Vertical	Pass
3	2997.750	53.84	-8.80	74.0	20.16	Peak	112.00	150	Vertical	Pass
3**	2997.750	43.64	-8.80	54.0	10.36	AV	112.00	150	Vertical	Pass
4	5800.500	98.96	-1.41	74.0	-24.96	Peak	205.00	150	Vertical	N/A
4**	5800.500	90.68	-1.41	54.0	-36.68	AV	205.00	150	Vertical	N/A
5	9377.974	46.42	-4.65	74.0	27.58	Peak	0.00	150	Vertical	Pass
5**	9377.974	35.11	-4.65	54.0	18.89	AV	0.00	150	Vertical	Pass
6	16161.450	48.17	-1.16	74.0	25.83	Peak	179.00	150	Vertical	Pass
6**	16161.450	37.08	-1.16	54.0	16.92	AV	179.00	150	Vertical	Pass

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

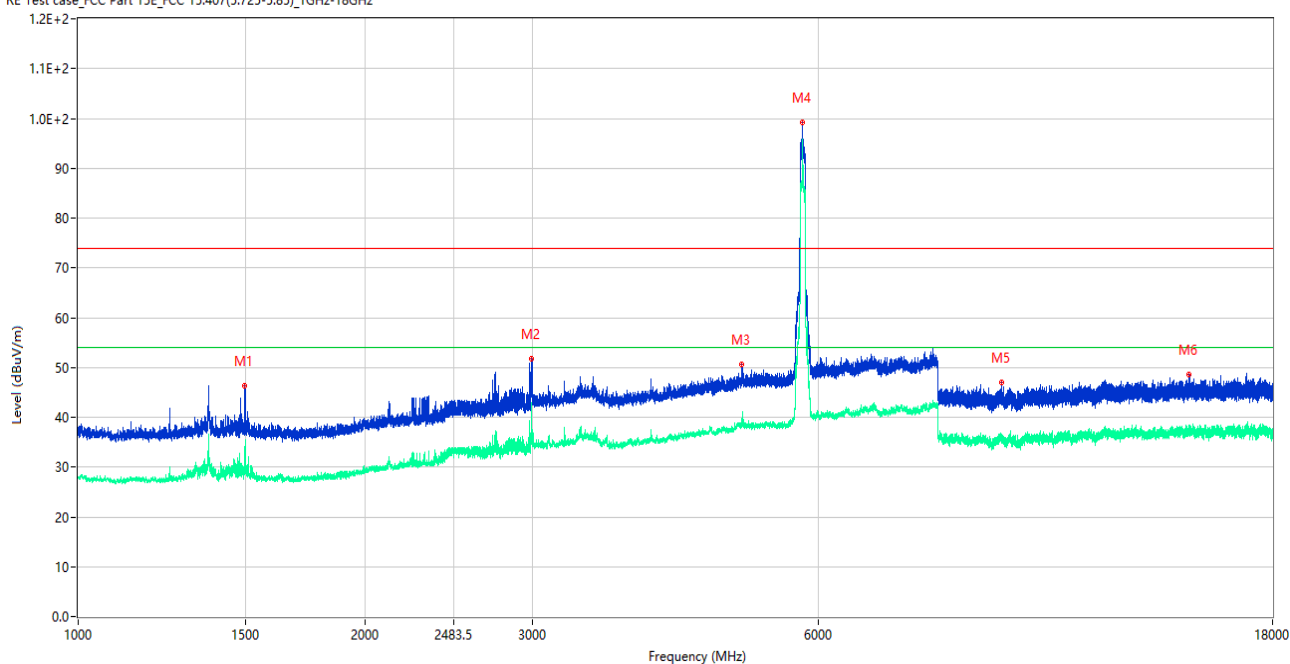
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1355.750	39.07	-15.84	74.0	34.93	Peak	143.00	150	Horizontal	Pass
1**	1355.750	27.64	-15.84	54.0	26.36	AV	143.00	150	Horizontal	Pass
2	2722.000	43.09	-10.53	74.0	30.91	Peak	28.00	150	Horizontal	Pass
2**	2722.000	31.91	-10.53	54.0	22.09	AV	28.00	150	Horizontal	Pass
3	4062.000	48.27	-4.08	74.0	25.73	Peak	357.00	150	Horizontal	Pass
3**	4062.000	35.33	-4.08	54.0	18.67	AV	357.00	150	Horizontal	Pass
4	5774.500	100.89	-1.58	74.0	-26.89	Peak	210.00	150	Horizontal	N/A
4**	5774.500	92.35	-1.58	54.0	-38.35	AV	210.00	150	Horizontal	N/A
5	9309.575	46.97	-5.43	74.0	27.03	Peak	0.00	150	Horizontal	Pass
5**	9309.575	35.70	-5.43	54.0	18.30	AV	0.00	150	Horizontal	Pass
6	15627.000	48.58	-1.61	74.0	25.42	Peak	0.00	150	Horizontal	Pass
6**	15627.000	38.03	-1.61	54.0	15.97	AV	0.00	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	1495.000	46.37	-16.17	74.0	27.63	Peak	267.00	150	Vertical	Pass
1**	1495.000	29.90	-16.17	54.0	24.10	AV	267.00	150	Vertical	Pass
2	2994.500	51.83	-8.92	74.0	22.17	Peak	104.00	150	Vertical	Pass
2**	2994.500	40.01	-8.92	54.0	13.99	AV	104.00	150	Vertical	Pass
3	4986.000	50.57	-2.50	74.0	23.43	Peak	240.00	150	Vertical	Pass
3**	4986.000	39.10	-2.50	54.0	14.90	AV	240.00	150	Vertical	Pass
4	5775.000	99.21	-1.57	74.0	-25.21	Peak	279.00	150	Vertical	N/A
4**	5775.000	93.71	-1.57	54.0	-39.71	AV	279.00	150	Vertical	N/A
5	9340.925	47.00	-5.22	74.0	27.00	Peak	239.00	150	Vertical	Pass
5**	9340.925	36.69	-5.22	54.0	17.31	AV	239.00	150	Vertical	Pass
6	14698.013	48.60	-2.17	74.0	25.40	Peak	40.00	150	Vertical	Pass
6**	14698.013	36.63	-2.17	54.0	17.37	AV	40.00	150	Vertical	Pass

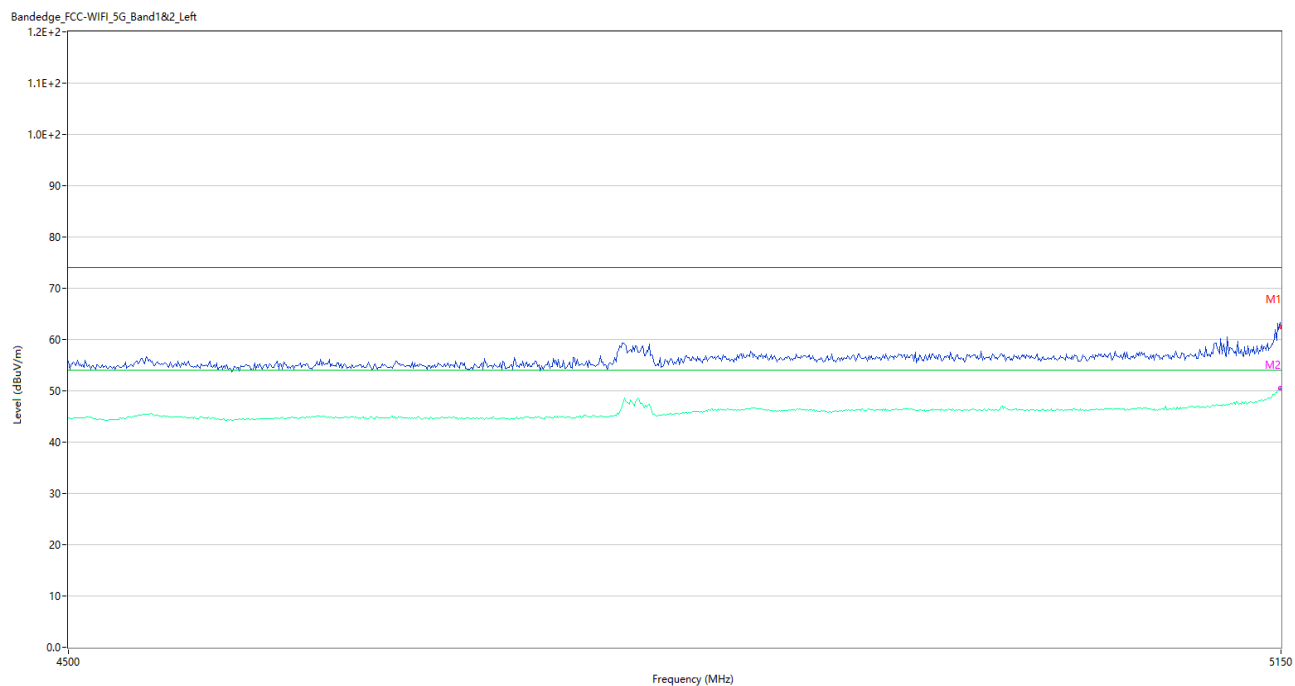
A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
U-NII-2A	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
U-NII-2C	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Low	Pass
		High	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass

	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass

Test Data and Plots

U-NII-1 11a CH36



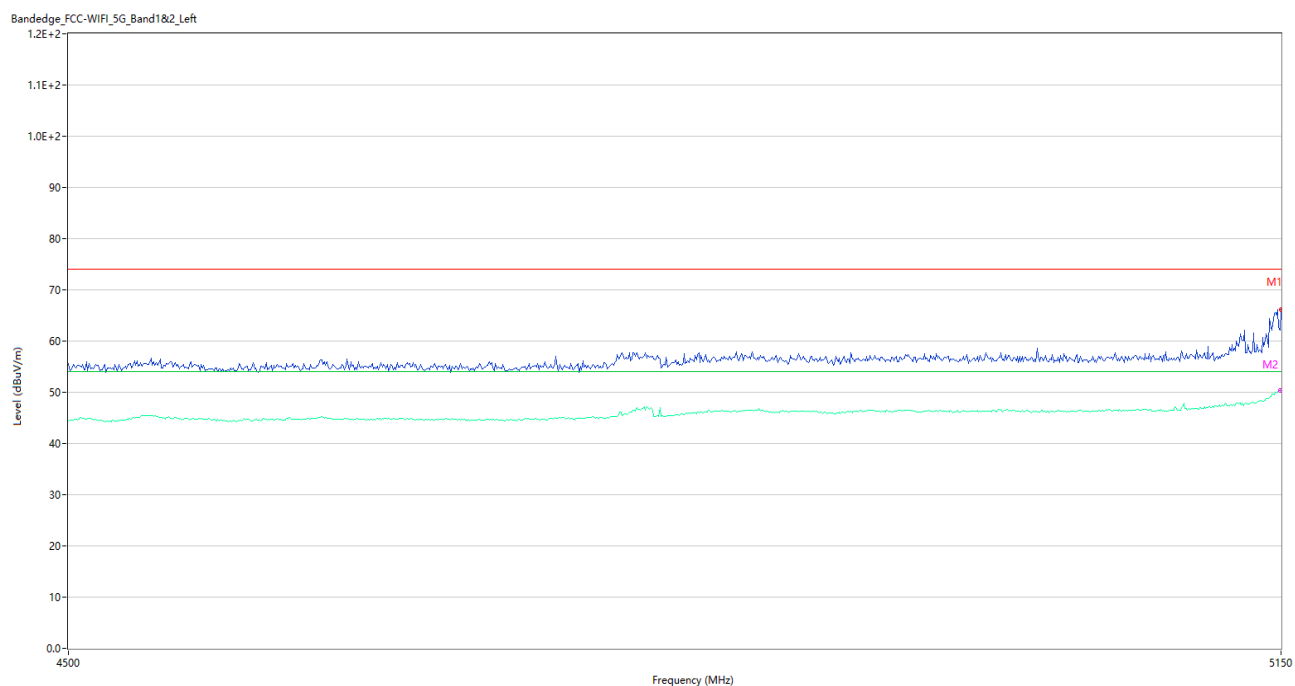
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	62.46	3.82	74.0	11.54	Peak	41.00	150	Vertical	Pass
1**	5150.000	50.42	3.82	54.0	3.58	AV	41.00	150	Vertical	Pass
2	5149.350	63.29	3.84	74.0	10.71	Peak	32.00	150	Vertical	Pass
2**	5149.350	50.51	3.84	54.0	3.49	AV	32.00	150	Vertical	Pass

U-NII-1 11a CH48



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.76	4.04	74.0	17.24	Peak	7.00	150	Horizontal	Pass
1**	5350.000	46.50	4.04	54.0	7.50	AV	7.00	150	Horizontal	Pass
2	5413.800	58.57	3.69	74.0	15.43	Peak	32.00	150	Horizontal	Pass
2**	5413.800	46.55	3.69	54.0	7.45	AV	32.00	150	Horizontal	Pass

U-NII-1 11n20 CH36



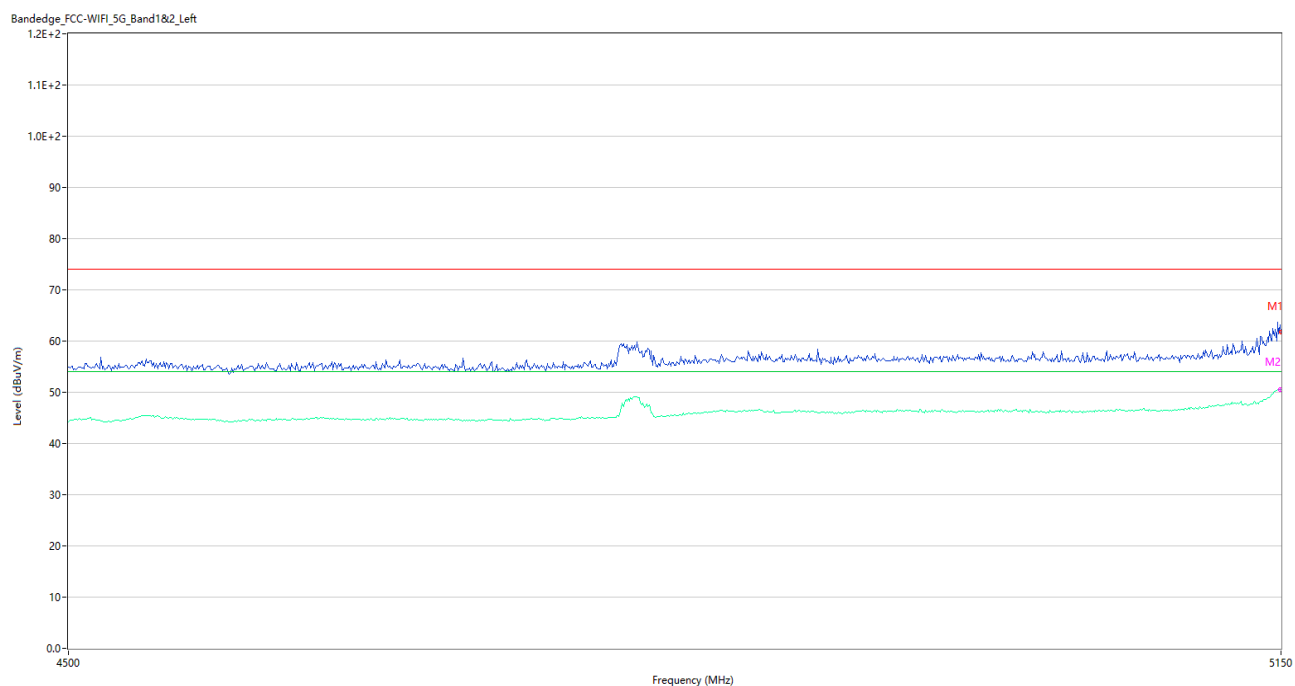
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	66.20	3.82	74.0	7.80	Peak	29.07	150	Vertical	Pass
1**	5150.000	50.78	3.82	54.0	3.22	AV	29.07	150	Vertical	Pass
2	5149.350	62.08	3.84	74.0	11.92	Peak	360.00	150	Vertical	Pass
2**	5149.350	50.41	3.84	54.0	3.59	AV	360.00	150	Vertical	Pass

U-NII-1 11n20 CH48



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.00	4.04	74.0	18.00	Peak	236.00	150	Vertical	Pass
1**	5350.000	46.51	4.04	54.0	7.49	AV	236.00	150	Vertical	Pass
2	5350.550	59.04	4.05	74.0	14.96	Peak	332.00	150	Vertical	Pass
2**	5350.550	46.44	4.05	54.0	7.56	AV	332.00	150	Vertical	Pass

U-NII-1 11n40 CH38



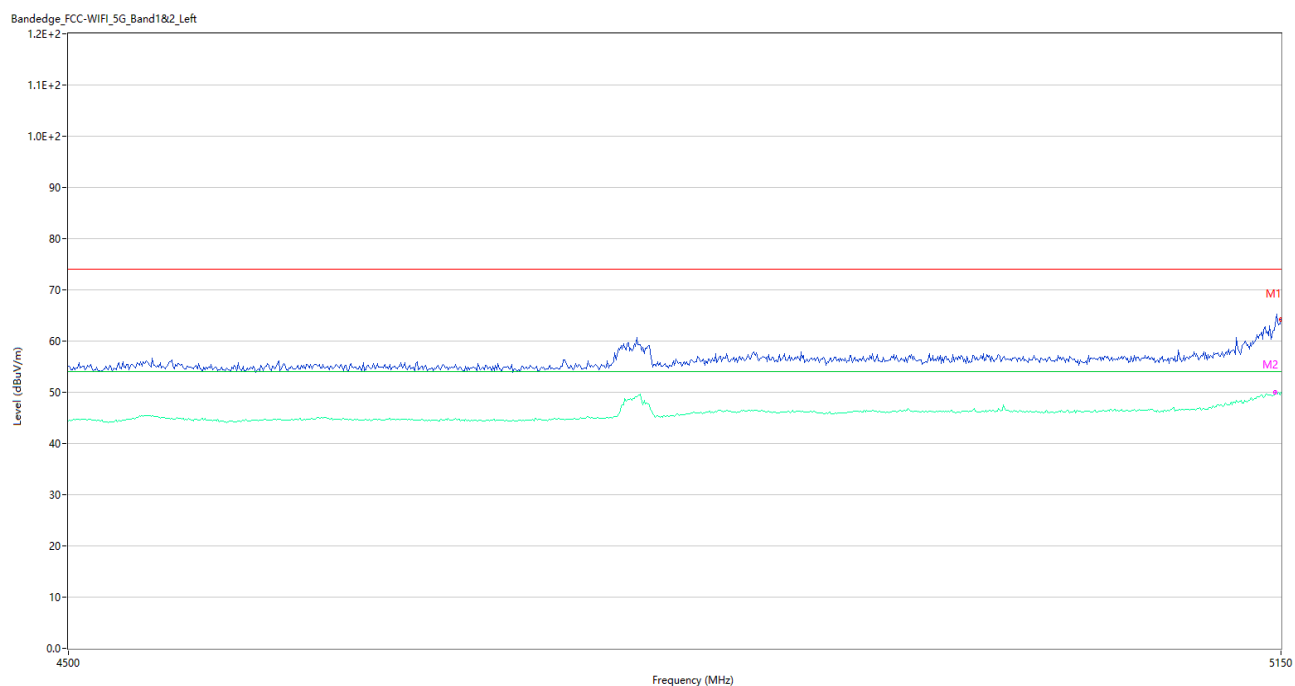
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	61.71	3.82	74.0	12.29	Peak	34.00	150	Vertical	Pass
1**	5150.000	50.90	3.82	54.0	3.10	AV	34.00	150	Vertical	Pass
2	5149.350	63.09	3.84	74.0	10.91	Peak	23.00	150	Vertical	Pass
2**	5149.350	50.57	3.84	54.0	3.43	AV	23.00	150	Vertical	Pass

U-NII-1 11n40 CH46



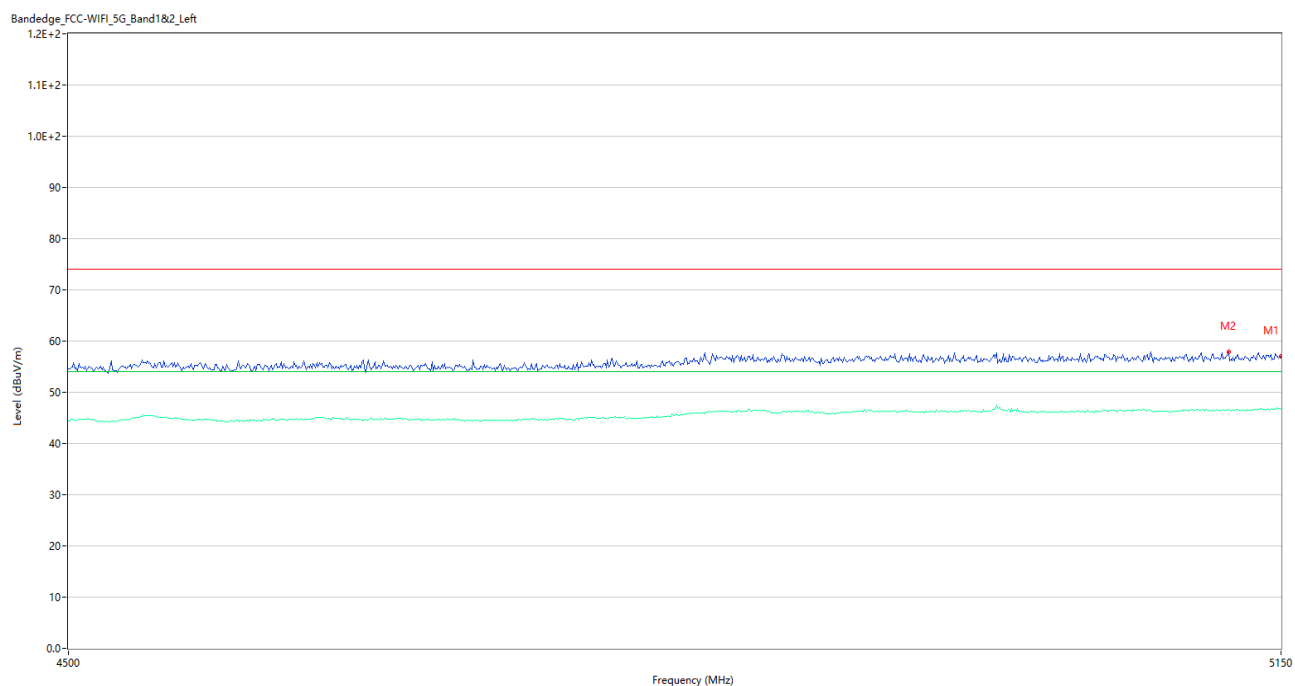
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.32	4.04	74.0	17.68	Peak	179.00	150	Horizontal	Pass
1**	5350.000	46.55	4.04	54.0	7.45	AV	179.00	150	Horizontal	Pass
2	5361.330	58.23	4.21	74.0	15.77	Peak	0.00	150	Horizontal	Pass
2**	5361.330	46.72	4.21	54.0	7.28	AV	0.00	150	Horizontal	Pass

U-NII-1 11ac80 CH42



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	64.18	3.82	74.0	9.82	Peak	36.99	150	Vertical	Pass
1**	5150.000	49.91	3.82	54.0	4.09	AV	36.99	150	Vertical	Pass
2	5146.750	63.27	3.91	74.0	10.73	Peak	29.00	150	Vertical	Pass
2**	5146.750	49.97	3.91	54.0	4.03	AV	29.00	150	Vertical	Pass

U-NII-2A 11a CH52



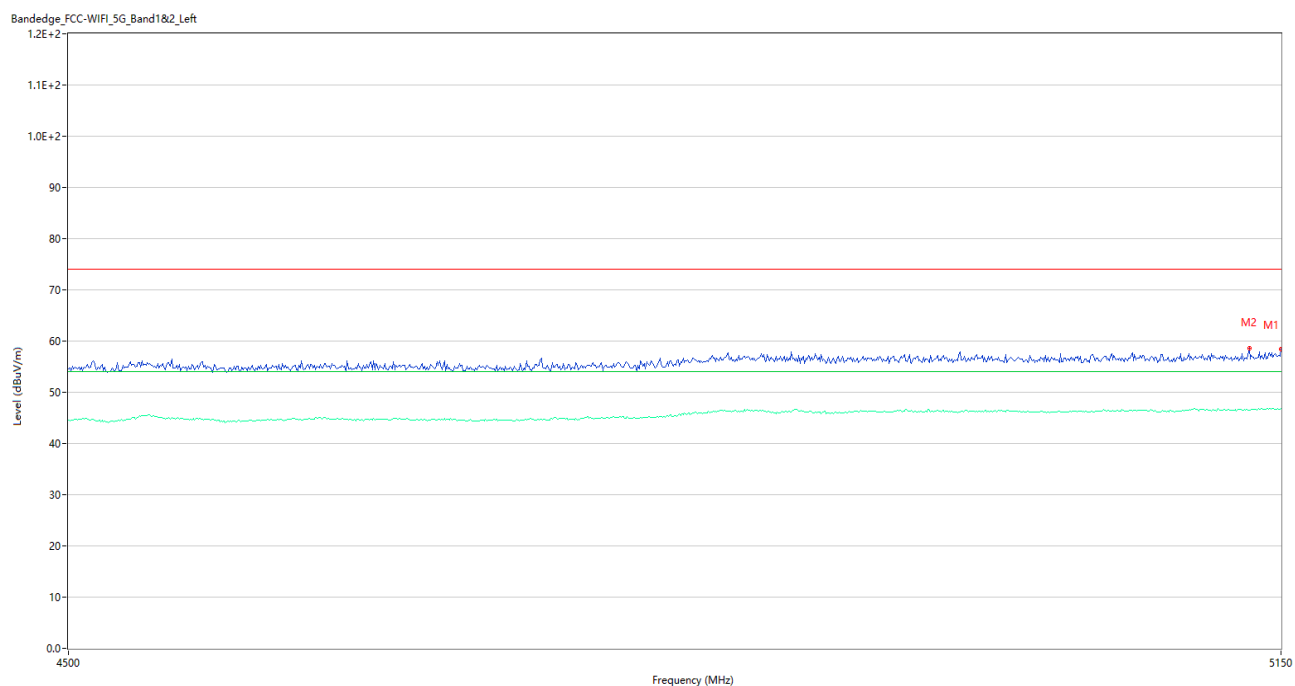
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.98	3.82	74.0	17.02	Peak	359.96	150	Vertical	Pass
1**	5150.000	46.71	3.82	54.0	7.29	AV	359.96	150	Vertical	Pass
2	5120.100	57.96	3.71	74.0	16.04	Peak	360.00	150	Vertical	Pass
2**	5120.100	46.62	3.71	54.0	7.38	AV	360.00	150	Vertical	Pass

U-NII-2A 11a CH64



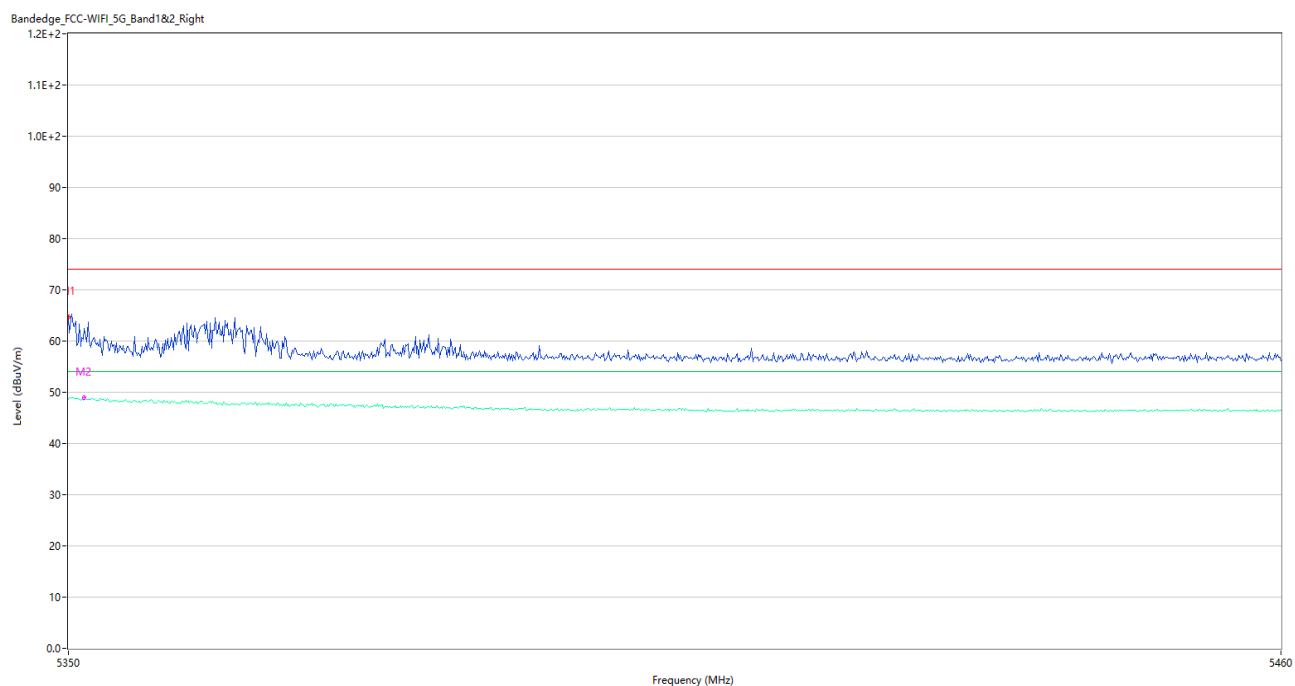
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	59.56	4.04	74.0	14.44	Peak	40.00	150	Vertical	Pass
1**	5350.000	48.34	4.04	54.0	5.66	AV	40.00	150	Vertical	Pass
2	5364.080	64.36	4.11	74.0	9.64	Peak	28.00	150	Vertical	Pass
2**	5364.080	47.76	4.11	54.0	6.24	AV	28.00	150	Vertical	Pass
3	5350.770	57.56	4.06	74.0	16.44	Peak	34.00	150	Vertical	Pass
3**	5350.770	48.52	4.06	54.0	5.48	AV	34.00	150	Vertical	Pass

U-NII-2A 11n20 CH52



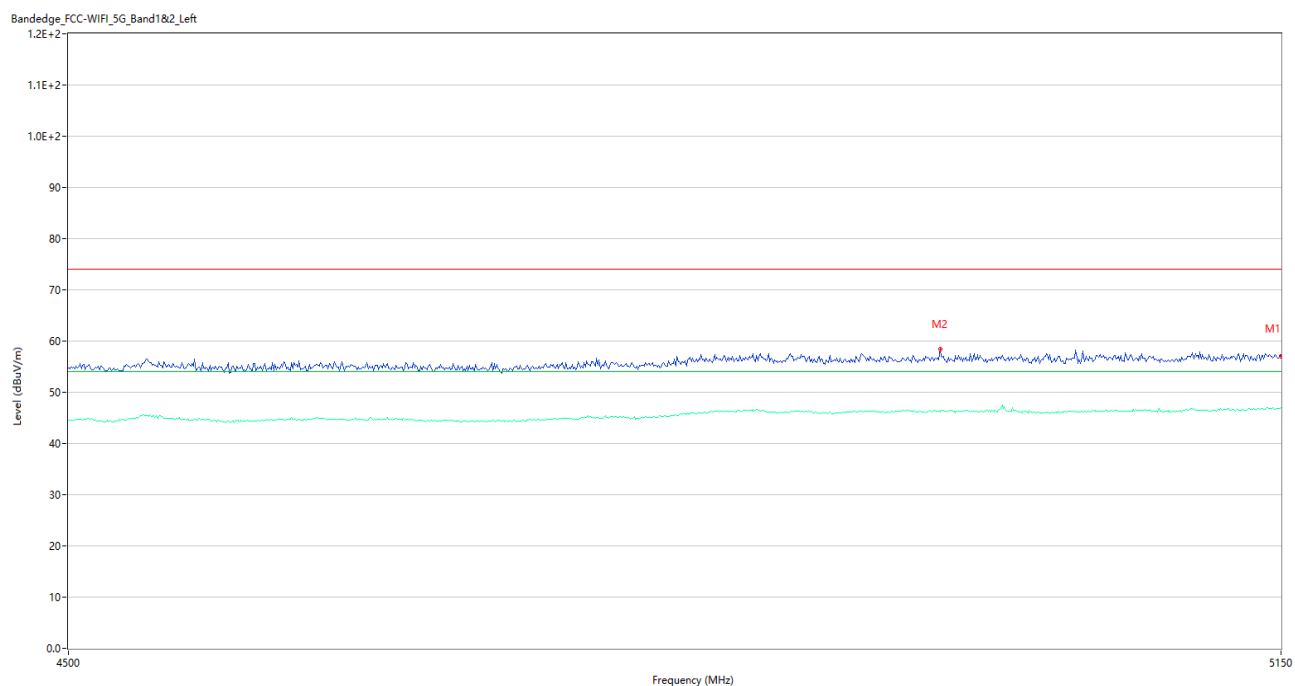
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.49	3.82	74.0	15.51	Peak	8.01	150	Horizontal	Pass
1**	5150.000	46.82	3.82	54.0	7.18	AV	8.01	150	Horizontal	Pass
2	5131.800	58.66	3.86	74.0	15.34	Peak	77.00	150	Horizontal	Pass
2**	5131.800	46.51	3.86	54.0	7.49	AV	77.00	150	Horizontal	Pass

U-NII-2A 11n20 CH64



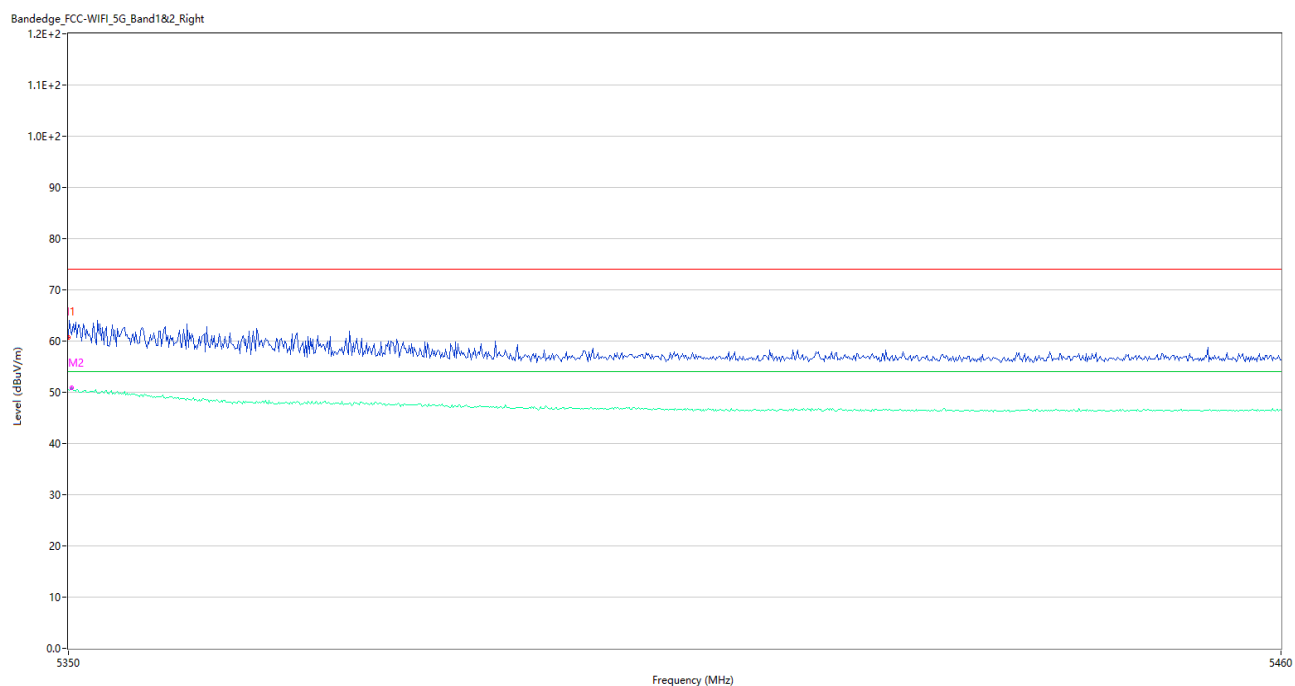
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	64.72	4.04	74.0	9.28	Peak	34.00	150	Vertical	Pass
1**	5350.000	48.64	4.04	54.0	5.36	AV	34.00	150	Vertical	Pass
2	5351.430	62.49	4.07	74.0	11.51	Peak	40.00	150	Vertical	Pass
2**	5351.430	49.02	4.07	54.0	4.98	AV	40.00	150	Vertical	Pass

U-NII-2A 11n40 CH54



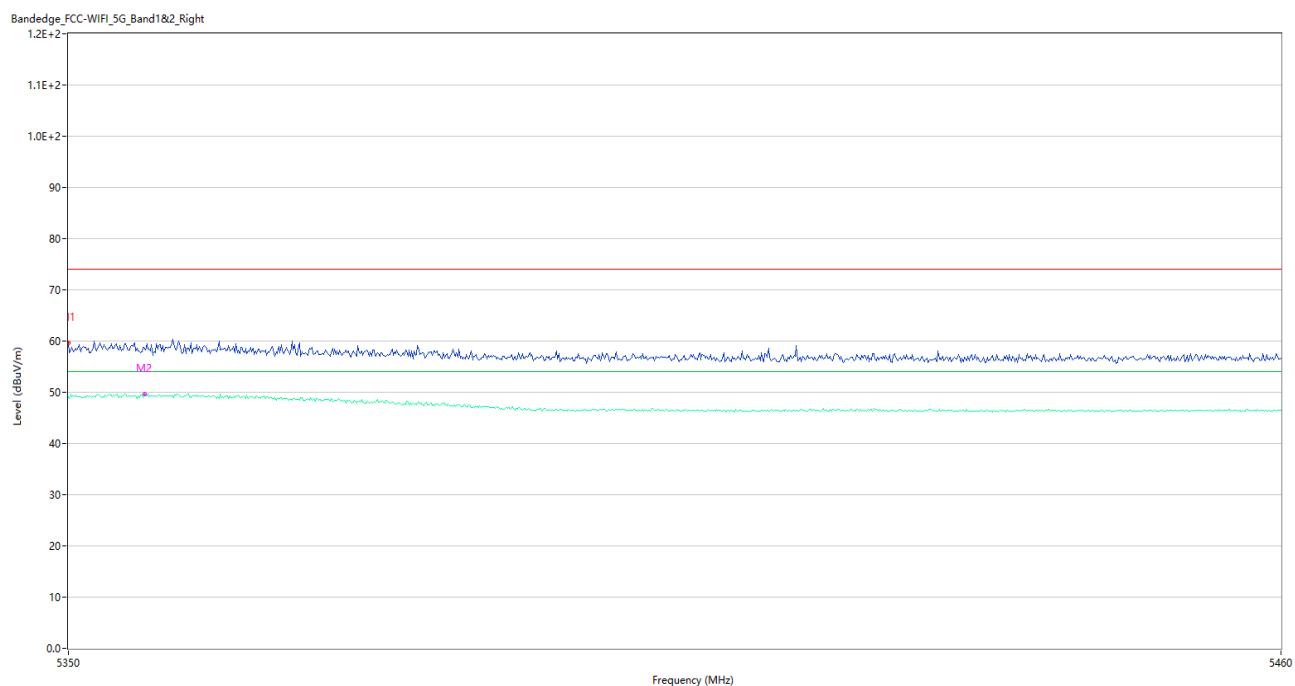
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	57.08	3.82	74.0	16.92	Peak	18.01	150	Vertical	Pass
1**	5150.000	46.93	3.82	54.0	7.07	AV	18.01	150	Vertical	Pass
2	4958.250	58.37	3.98	74.0	15.63	Peak	129.00	150	Vertical	Pass
2**	4958.250	46.10	3.98	54.0	7.90	AV	129.00	150	Vertical	Pass

U-NII-2A 11n40 CH62



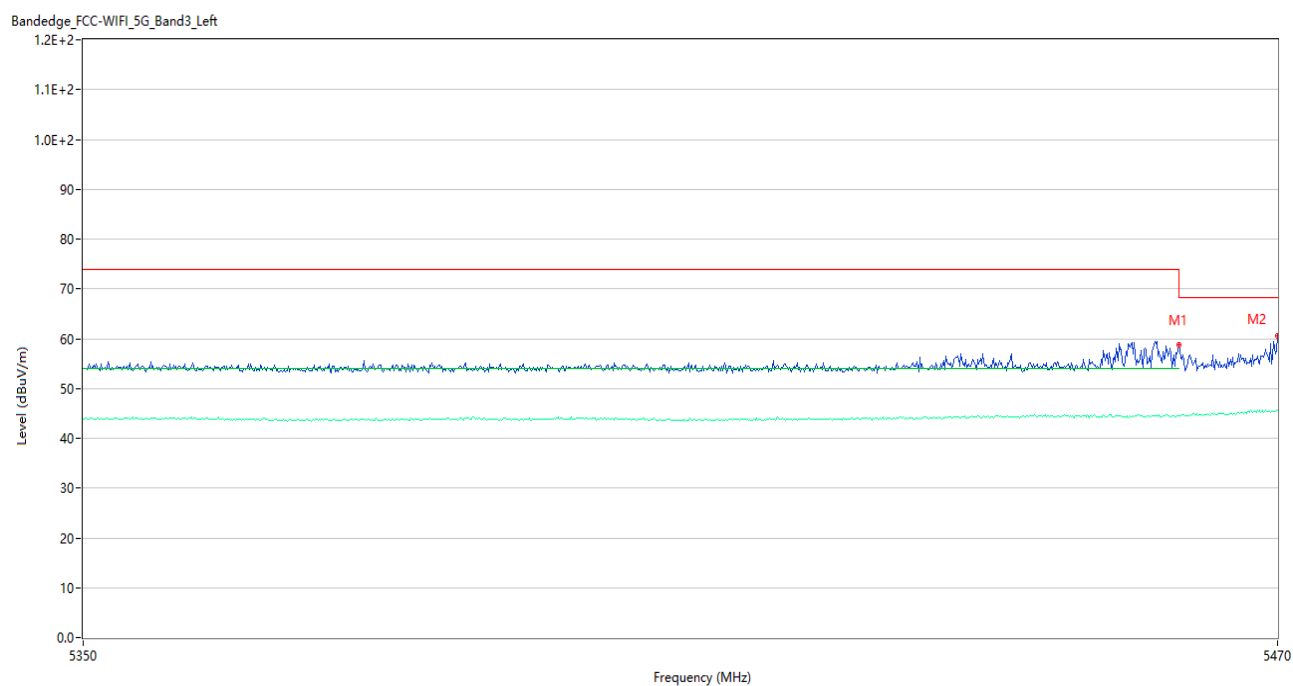
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.72	4.04	74.0	13.28	Peak	36.00	150	Vertical	Pass
1**	5350.000	50.53	4.04	54.0	3.47	AV	36.00	150	Vertical	Pass
2	5350.330	61.22	4.05	74.0	12.78	Peak	307.00	150	Vertical	Pass
2**	5350.330	50.84	4.05	54.0	3.16	AV	307.00	150	Vertical	Pass

U-NII-2A 11ac80 CH58



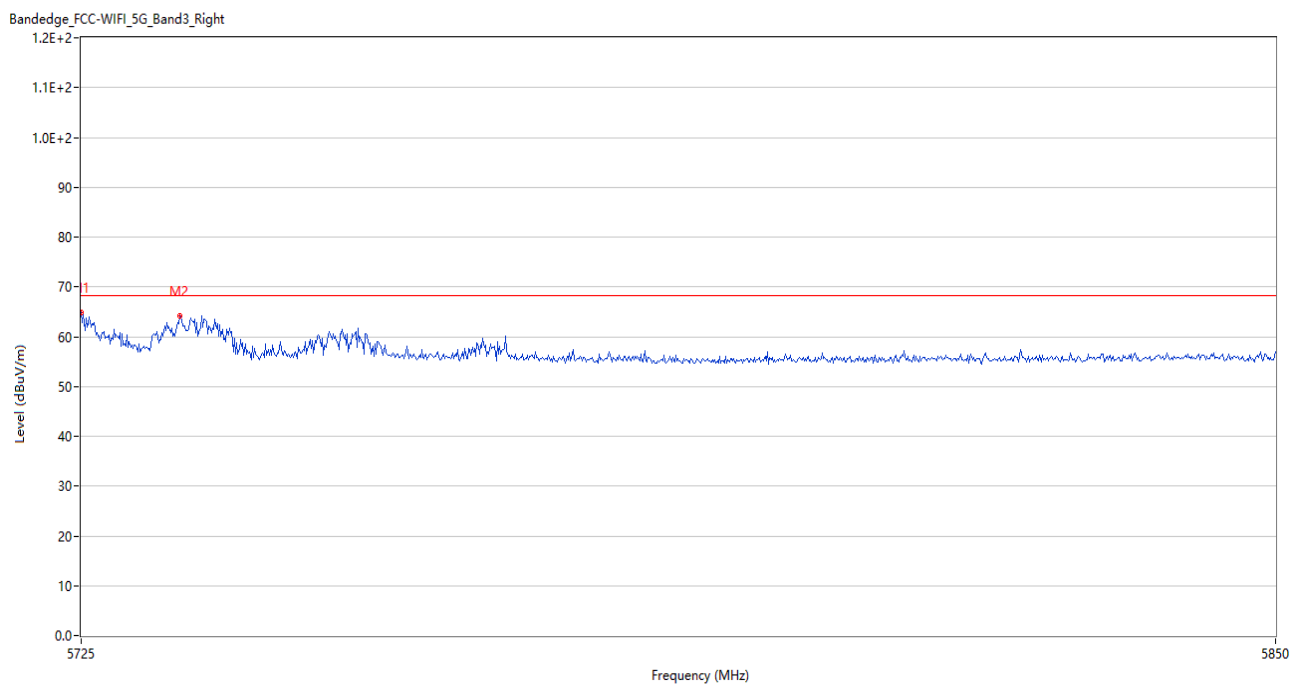
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	59.60	4.04	74.0	14.40	Peak	264.00	150	Vertical	Pass
1**	5350.000	49.06	4.04	54.0	4.94	AV	264.00	150	Vertical	Pass
2	5356.820	58.66	4.19	74.0	15.34	Peak	34.00	150	Vertical	Pass
2**	5356.820	49.72	4.19	54.0	4.28	AV	34.00	150	Vertical	Pass

U-NII-2C 11a CH100



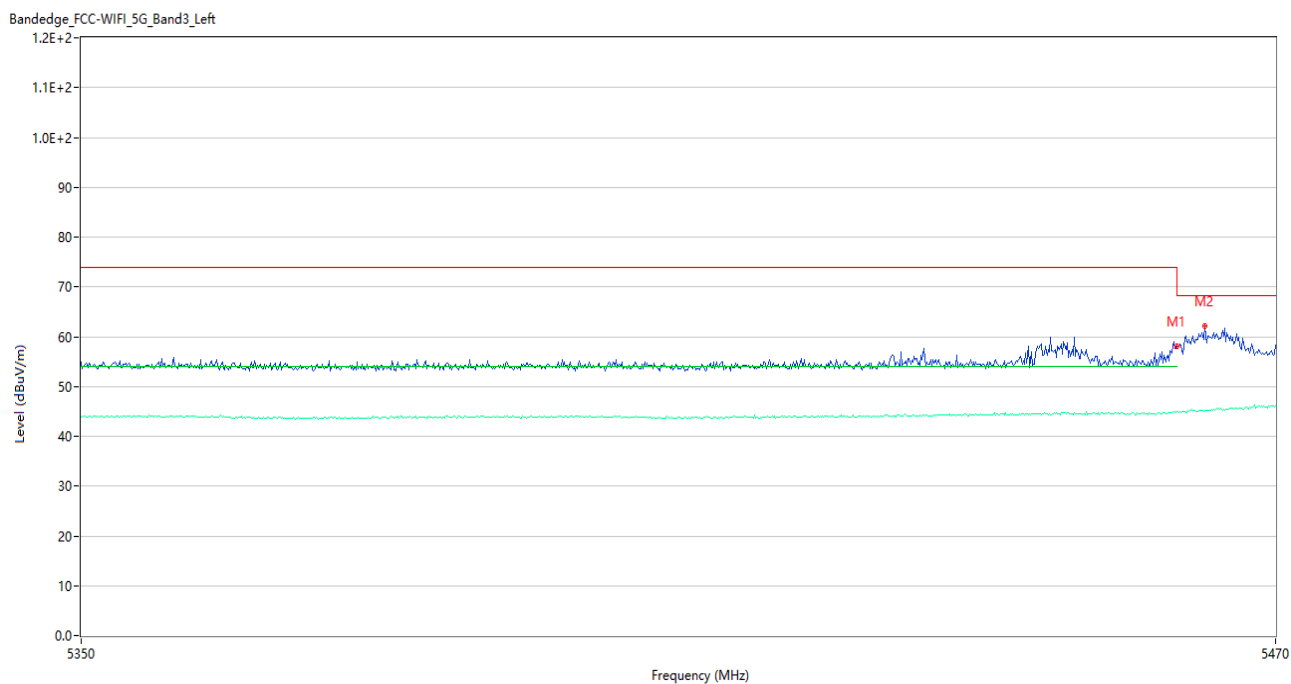
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	58.24	3.78	68.2	9.96	Peak	121.52	150	Vertical	Pass
1**	5460.000	44.49	3.78	54.0	9.51	AV	121.52	150	Vertical	Pass
2	5470.000	60.55	4.09	--	-28.55	Peak	32.00	150	Vertical	Pass
2**	5470.000	45.64	4.09	--	-45.64	AV	32.00	150	Vertical	Pass

U-NII-2C 11a CH140



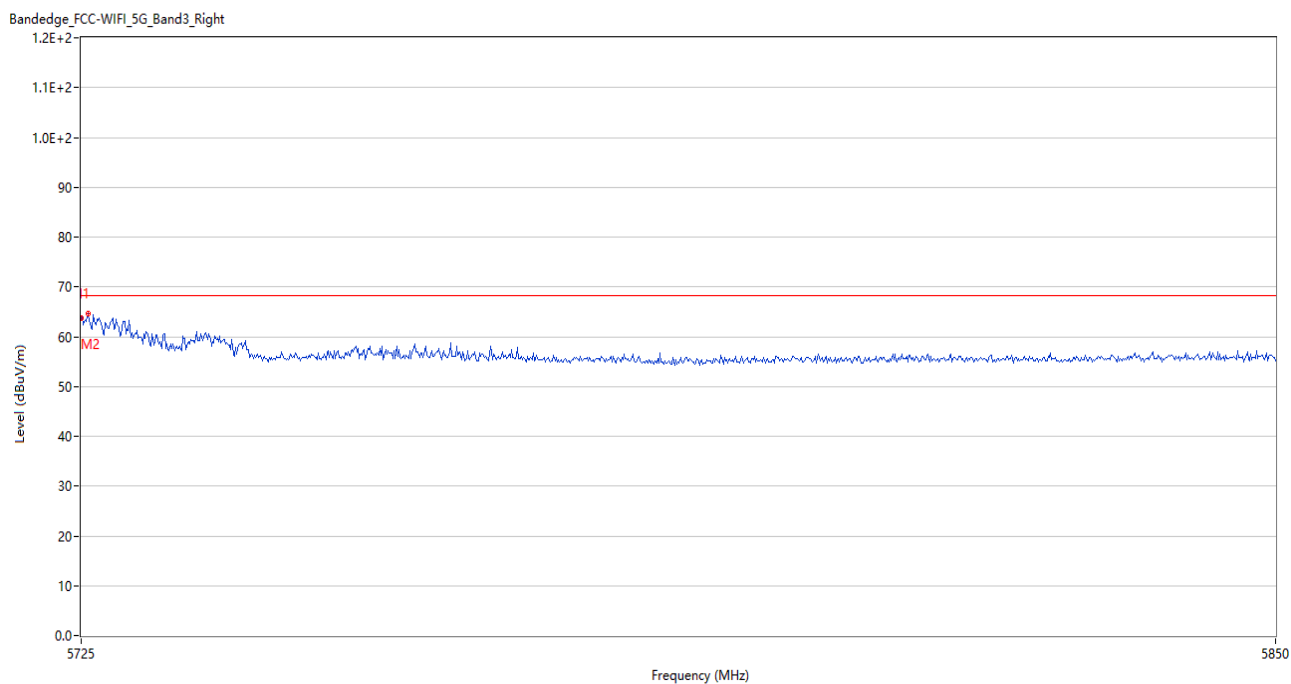
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	64.88	4.31	68.2	3.32	Peak	190.00	150	Horizontal	Pass
2	5735.250	64.20	4.22	68.2	4.00	Peak	190.00	150	Horizontal	Pass

U-NII-2C 11n20 CH100



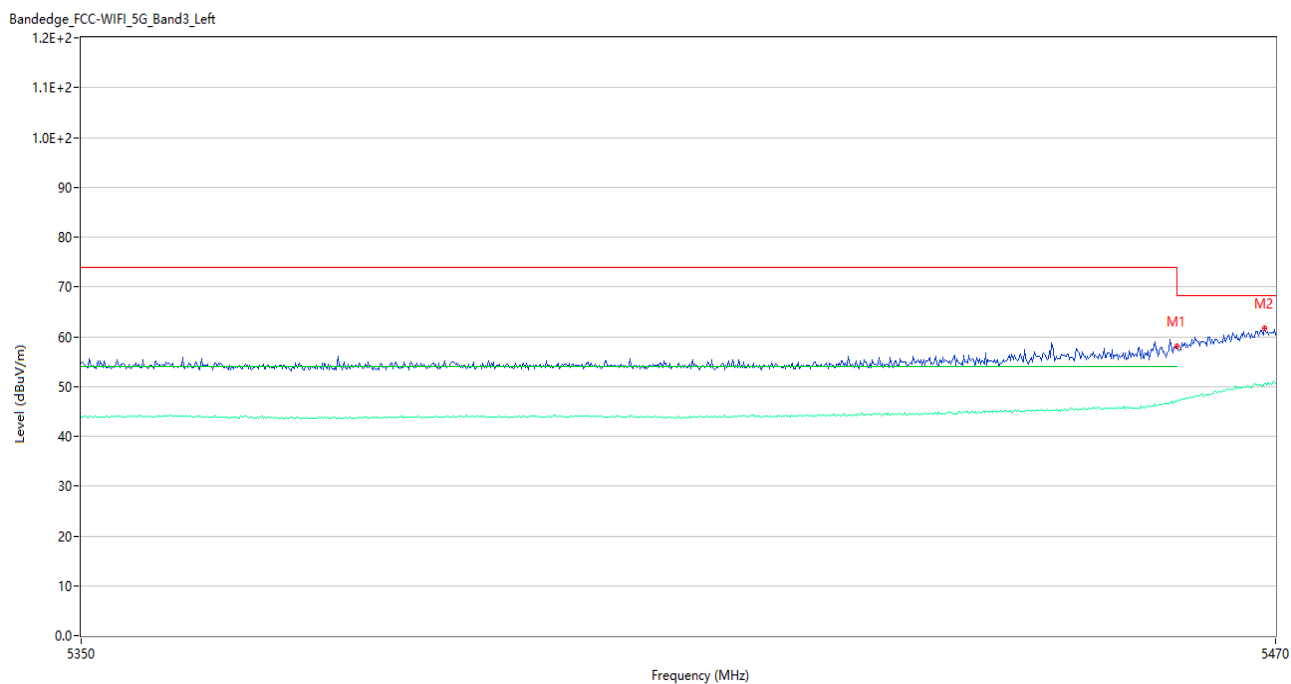
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	57.97	3.78	68.2	10.23	Peak	17.66	150	Horizontal	Pass
1**	5460.000	44.89	3.78	54.0	9.11	AV	17.66	150	Horizontal	Pass
2	5462.800	62.04	3.87	68.2	6.16	Peak	290.00	150	Horizontal	Pass
2**	5462.800	45.25	3.87	--	-45.25	AV	290.00	150	Horizontal	Pass

U-NII-2C 11n20 CH140



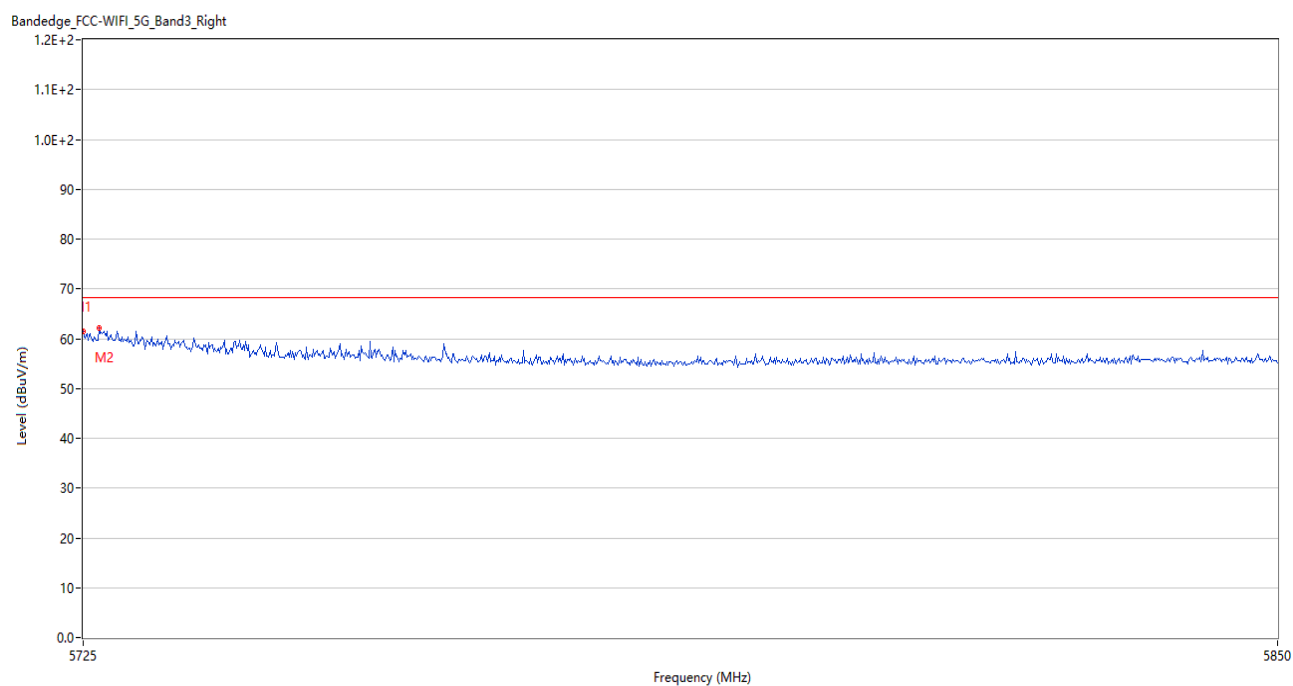
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	63.79	4.31	68.2	4.41	Peak	215.00	150	Horizontal	Pass
2	5725.750	64.71	4.28	68.2	3.49	Peak	202.00	150	Horizontal	Pass

U-NII-2C 11n40 CH102



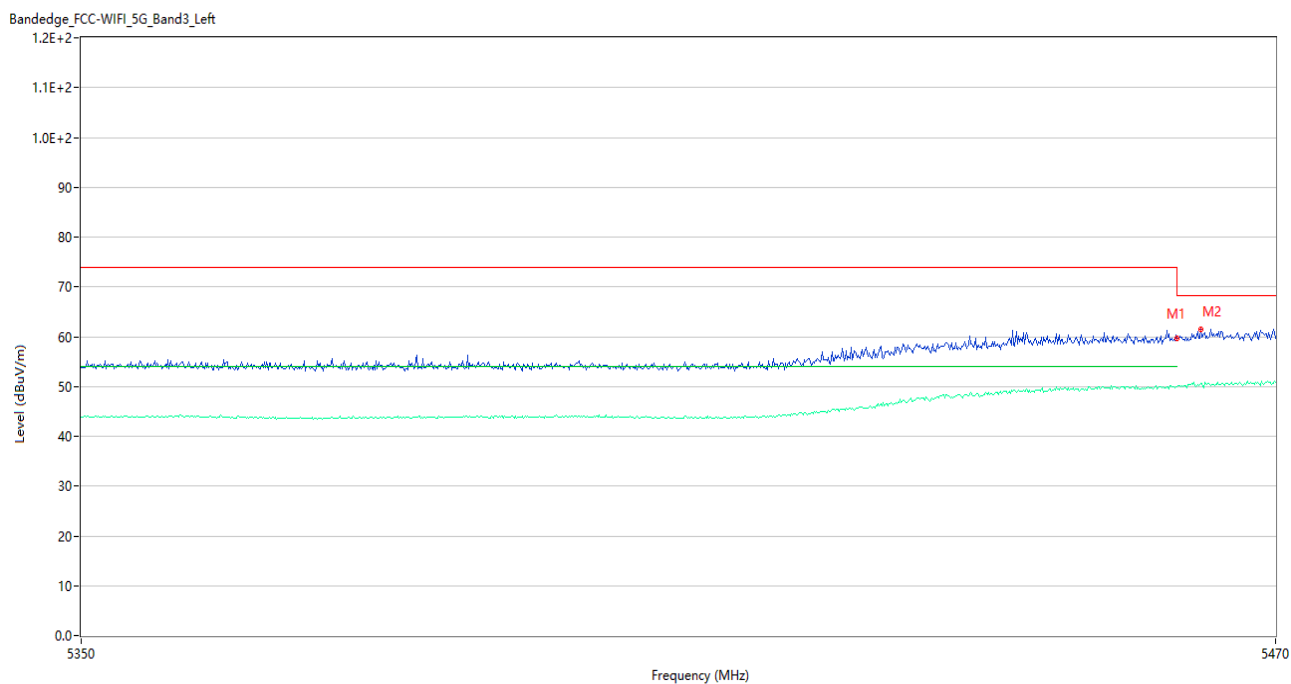
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	57.88	3.78	68.2	10.32	Peak	84.13	150	Horizontal	Pass
1**	5460.000	46.95	3.78	54.0	7.05	AV	84.13	150	Horizontal	Pass
2	5468.920	61.66	4.07	68.2	6.54	Peak	17.00	150	Horizontal	Pass
2**	5468.920	50.56	4.07	--	-50.56	AV	17.00	150	Horizontal	Pass

U-NII-2C 11n40 CH134



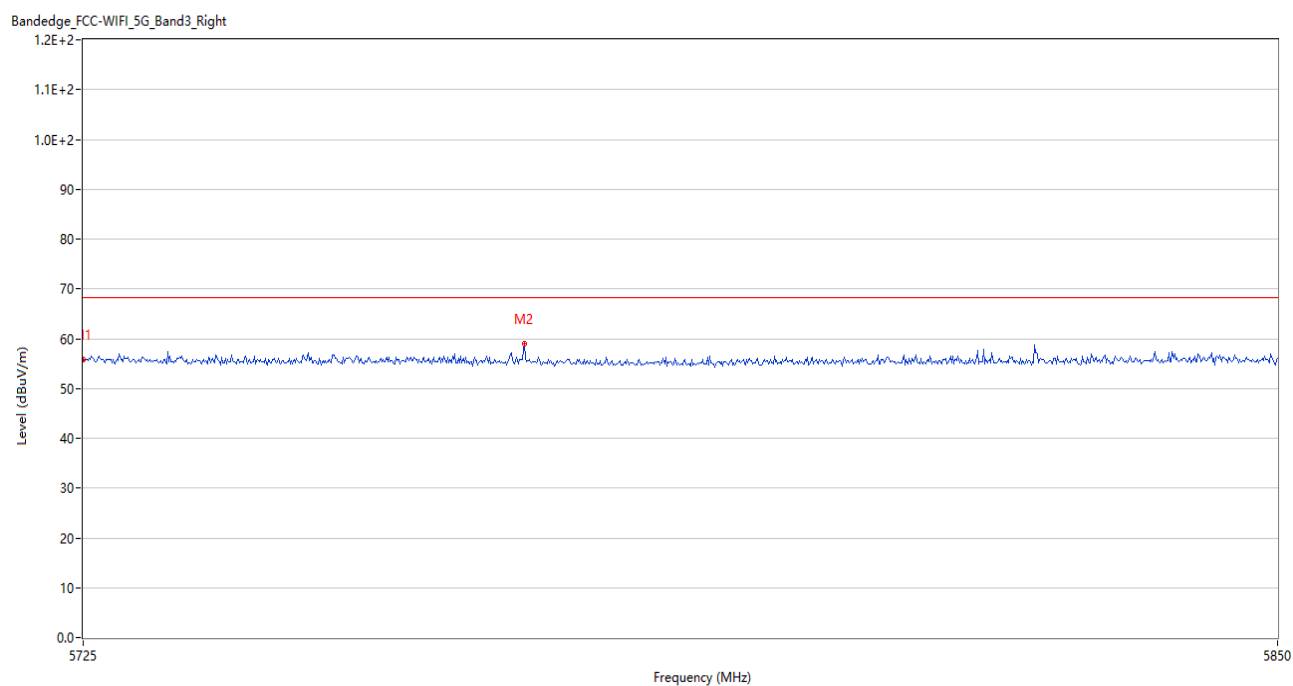
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	61.39	4.31	68.2	6.81	Peak	211.00	150	Vertical	Pass
2	5726.625	62.10	4.26	68.2	6.10	Peak	198.00	150	Vertical	Pass

U-NII-2C 11ac80 CH106



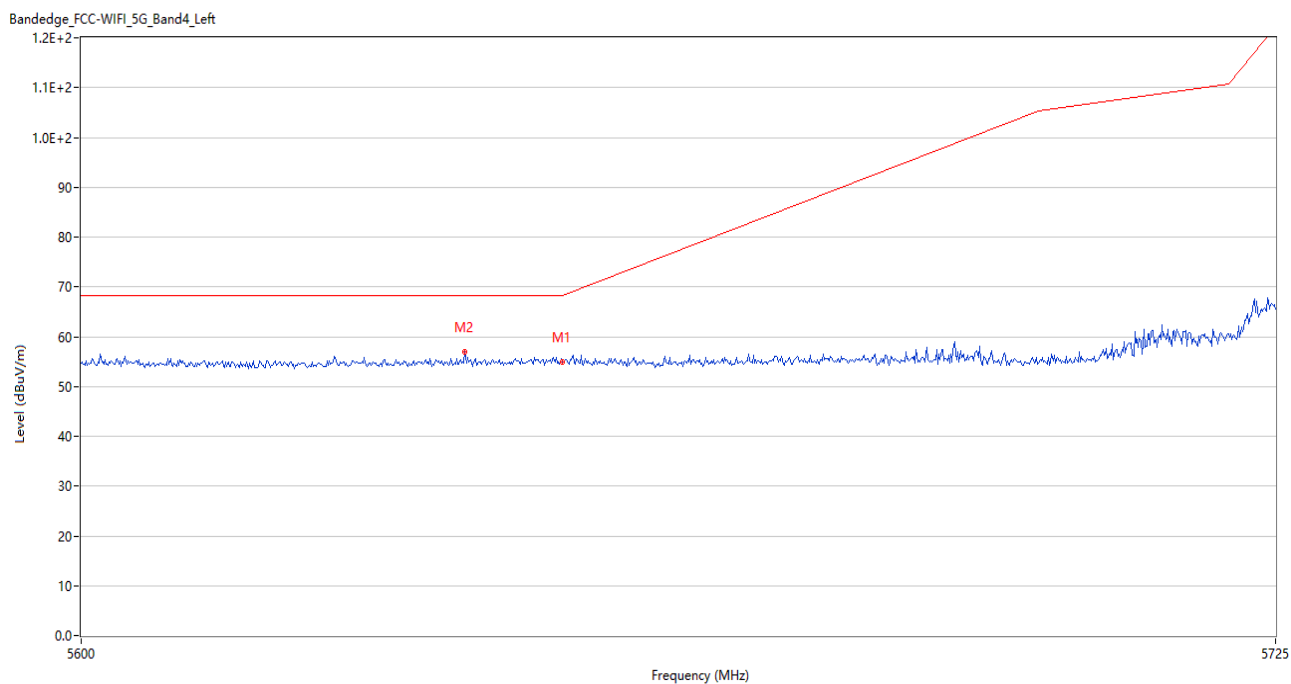
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	59.88	3.78	68.2	8.32	Peak	4.34	150	Horizontal	Pass
1**	5460.000	50.00	3.78	54.0	4.00	AV	4.34	150	Horizontal	Pass
2	5462.440	61.56	3.86	68.2	6.64	Peak	254.00	150	Horizontal	Pass
2**	5462.440	50.54	3.86	--	-50.54	AV	254.00	150	Horizontal	Pass

U-NII-2C 11ac80 CH122



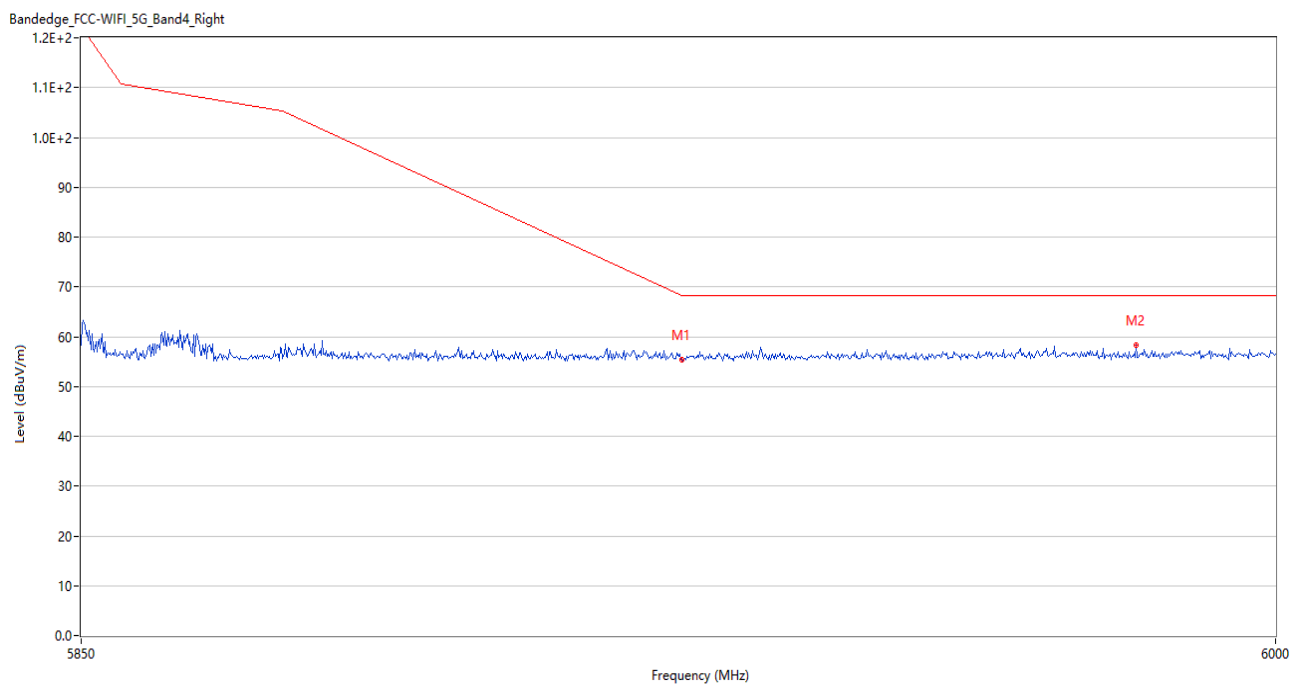
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	55.73	4.31	68.2	12.47	Peak	204.00	150	Horizontal	Pass
2	5770.875	59.01	4.71	68.2	9.19	Peak	345.00	150	Horizontal	Pass

U-NII-3 11a CH149



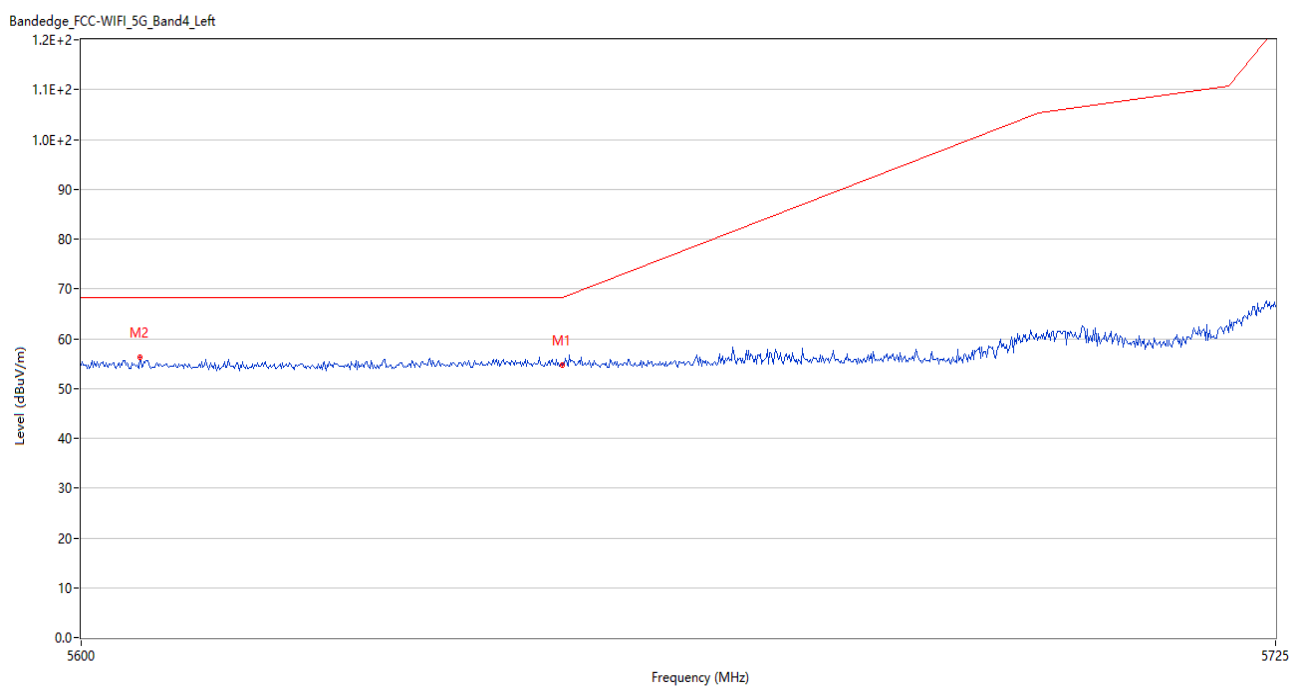
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.87	3.81	68.2	13.33	Peak	0.00	150	Vertical	Pass
2	5639.875	56.93	3.74	68.2	11.27	Peak	135.00	150	Vertical	Pass

U-NII-3 11a CH165



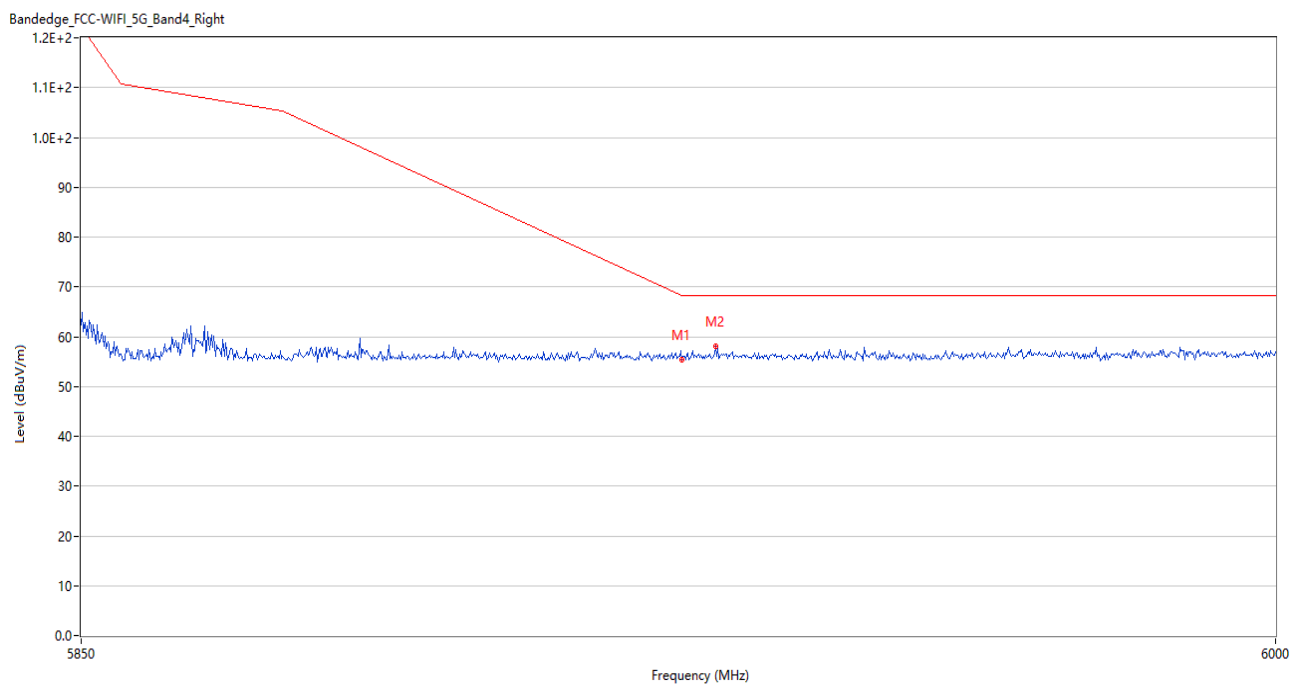
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.39	6.44	68.2	12.81	Peak	180.90	150	Horizontal	Pass
2	5982.300	58.39	6.12	68.2	9.81	Peak	60.00	150	Horizontal	Pass

U-NII-3 11ac20 CH149



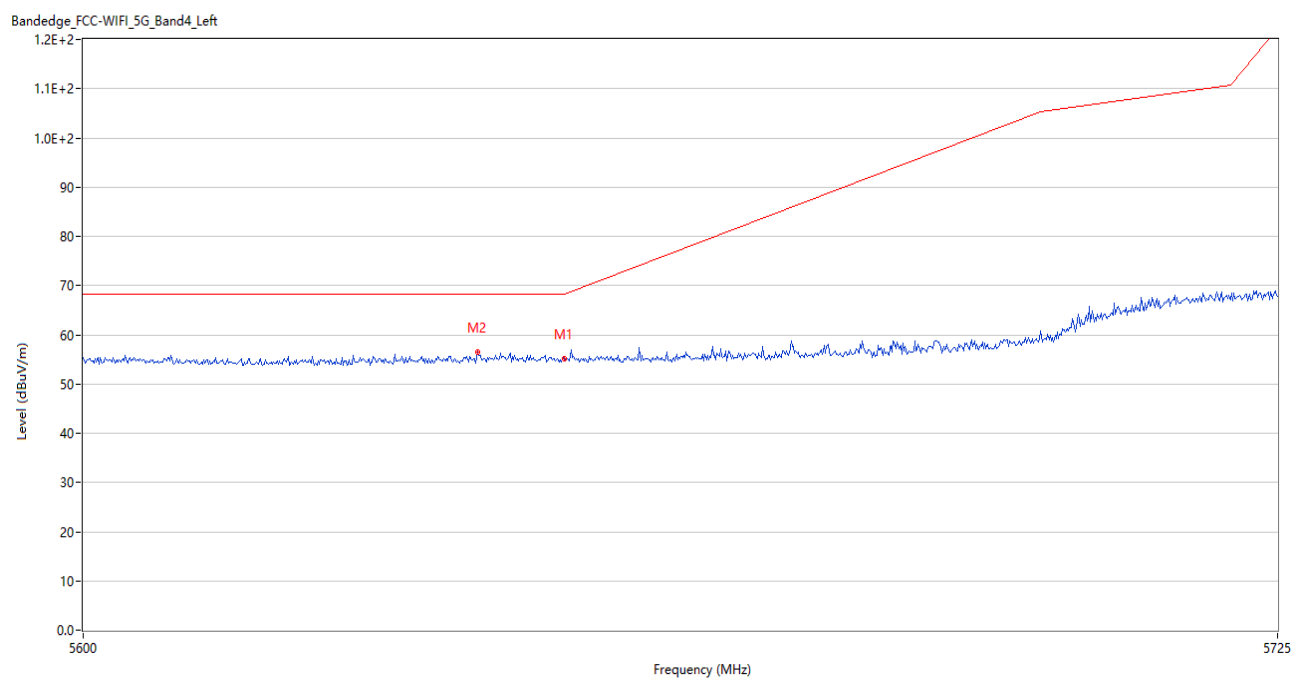
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.72	3.81	68.2	13.48	Peak	256.09	150	Horizontal	Pass
2	5606.125	56.32	3.65	68.2	11.88	Peak	352.00	150	Horizontal	Pass

U-NII-3 11ac20 CH165



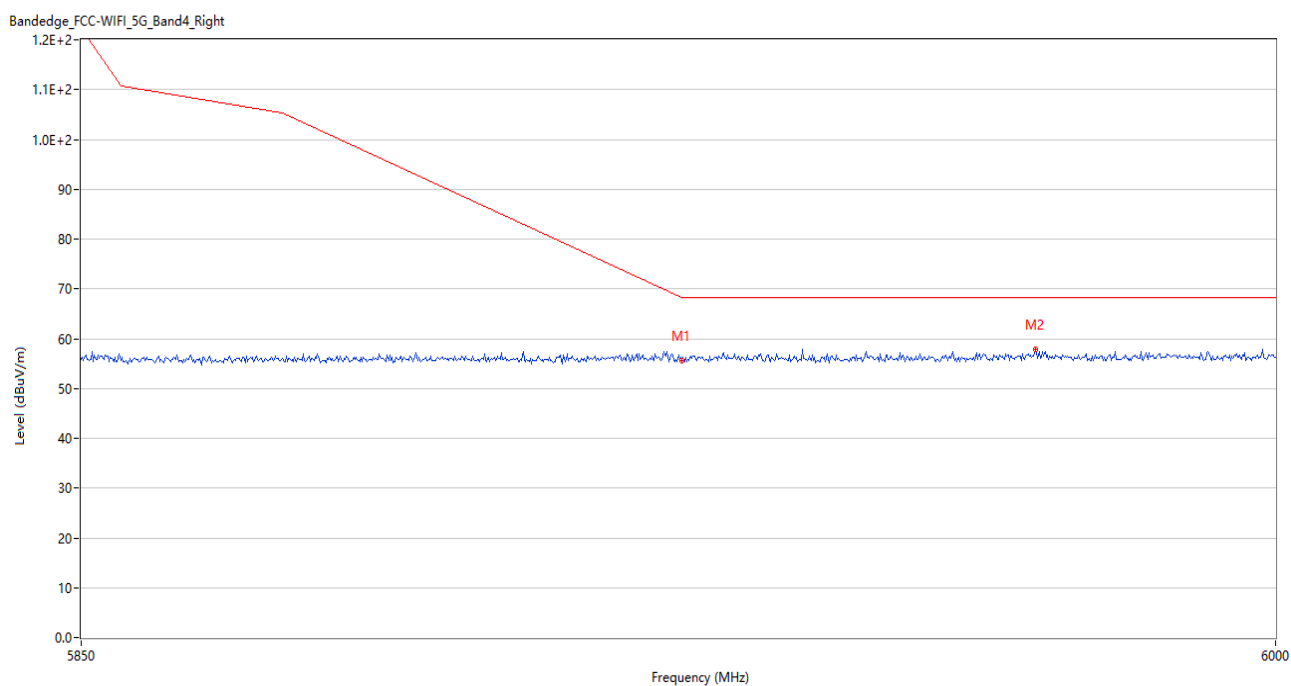
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.42	6.44	68.2	12.78	Peak	275.91	150	Horizontal	Pass
2	5929.200	58.10	6.33	68.2	10.10	Peak	300.00	150	Horizontal	Pass

U-NII-3 11ac40 CH151



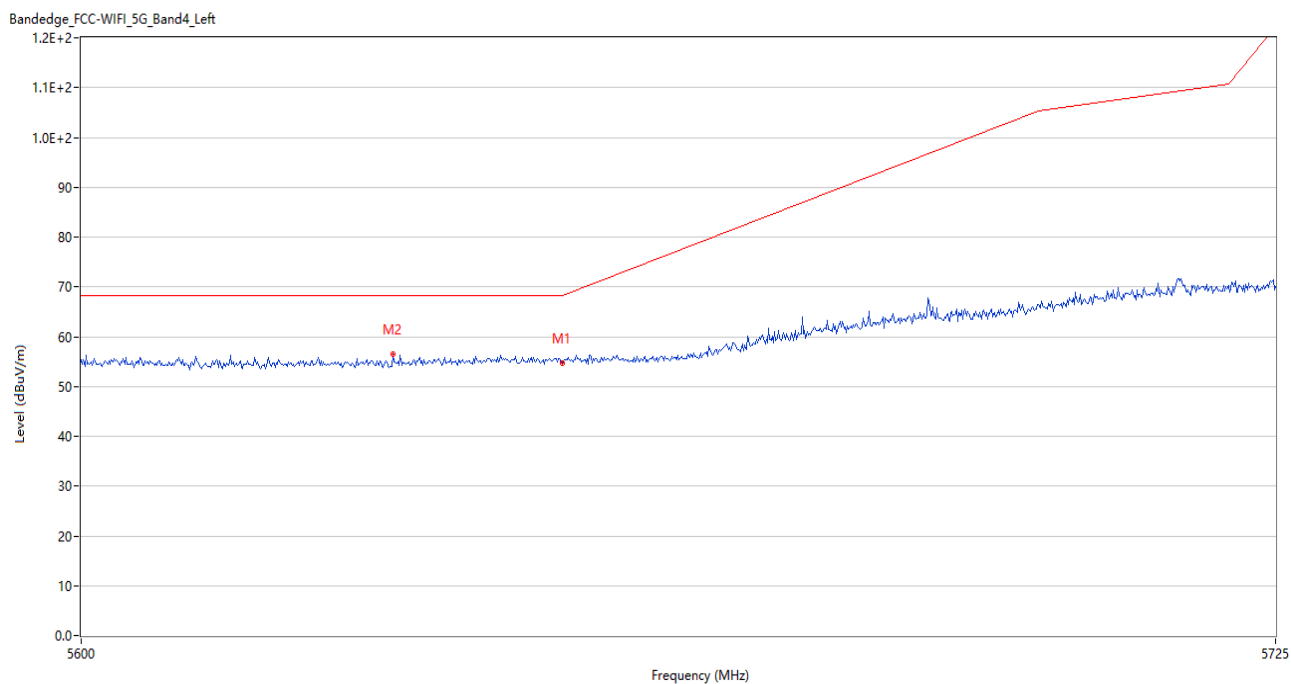
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.16	3.81	68.2	13.04	Peak	338.81	150	Horizontal	Pass
2	5641.000	56.47	3.74	68.2	11.73	Peak	360.00	150	Horizontal	Pass

U-NII-3 11ac40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.52	6.44	68.2	12.68	Peak	359.68	150	Vertical	Pass
2	5969.550	57.83	6.32	68.2	10.37	Peak	148.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.64	3.81	68.2	13.56	Peak	194.10	150	Horizontal	Pass
2	5632.375	56.59	3.69	68.2	11.61	Peak	27.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2591009-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2591009-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document BL-SH2591009-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
4. The test data and results are only valid for the tested samples provided by the customer.
5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--