

TEST REPORT

Applicant: Shanghai Xiangcheng Communication Technology Co., Ltd
Address: 6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai
Equipment Type: Smart Electronic Cash Register
Model Name: D8C
Brand Name: KOZEN
FCC ID: 2A2UU-D8CA
Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date: Apr. 14, 2025
Test Date: Apr. 16, 2025 - May 08, 2025
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ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



Prepared by: Zhang Rujie

Reviewed by: Hai Su

Approved by: Zhang Yanqing
(Laboratory Manager)

Zhang Rujie

Hai Su

Zhang Yanqing

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jul. 29, 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, Chinacc
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shanghai Xiangcheng Communication Technology Co., Ltd
Address	6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai

2.2 Manufacturer Information

Manufacturer	Shanghai Xiangcheng Communication Technology Co., Ltd
Address	6th Floor, Building 10, No.3000, Longdong Avenue, Pudong New District, Shanghai

2.3 General Description for Equipment under Test (EUT)

EUT Name	Smart Electronic Cash Register
Model Name Under Test	D8C
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	SC-SH2530111-S03(conducted) SC-SH2530111-S01(radiated)
Hardware Version	D08C1_MAIN_PCB V1.0
Software Version	D08C1_kozen_combo
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	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)
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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: 15.23 dBm U-NII-2A: 15.23 dBm U-NII-2C: 15.22 dBm U-NII-3: 15.34 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: 2.32 dBi U-NII-2A: 5250 MHz to 5350 MHz: 1.84 dBi U-NII-2C: 5470 MHz to 5725 MHz: 2.64 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.60 dBi
About the Product	The equipment is Smart Electronic Cash Register, 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	155	5775
52	5260	102	5510		
56	5280	110	5550		
60	5300	151	5755		
64	5320	159	5795		
100	5500				
104	5520				
108	5540				
112	5560				
116	5580				
136	5680				
140	5700				
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

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

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

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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

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

3.2 Test Verdict

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	53% to 59%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.2°C to +24.3°C
Working Voltage of the EUT	NV (Normal Voltage)	5.0 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	2024.07.09	2025.07.08
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*3.2 m	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 Decision Rule

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

4.5 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.4 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.73 dB
Unwanted Emissions, conducted	1.73 dB
All emissions, radiated	3.70 dB
Temperature	0.82 °C
Humidity	4.1 %

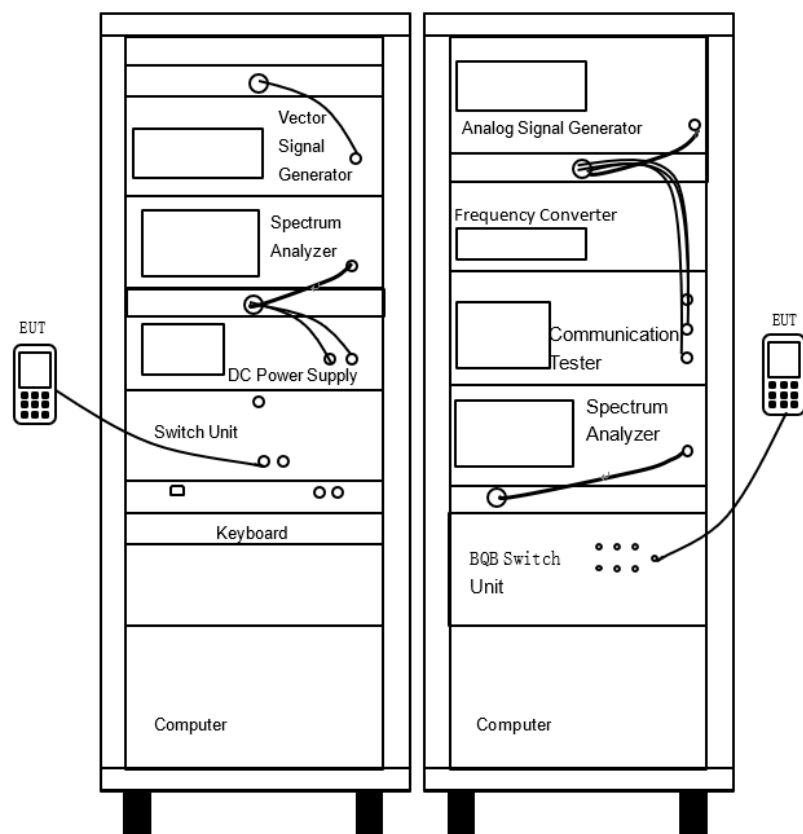
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

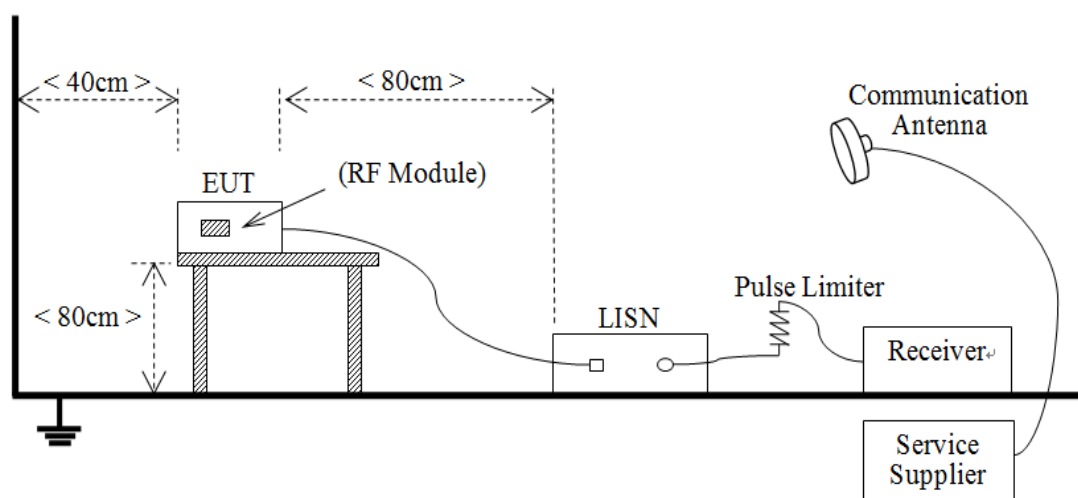
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



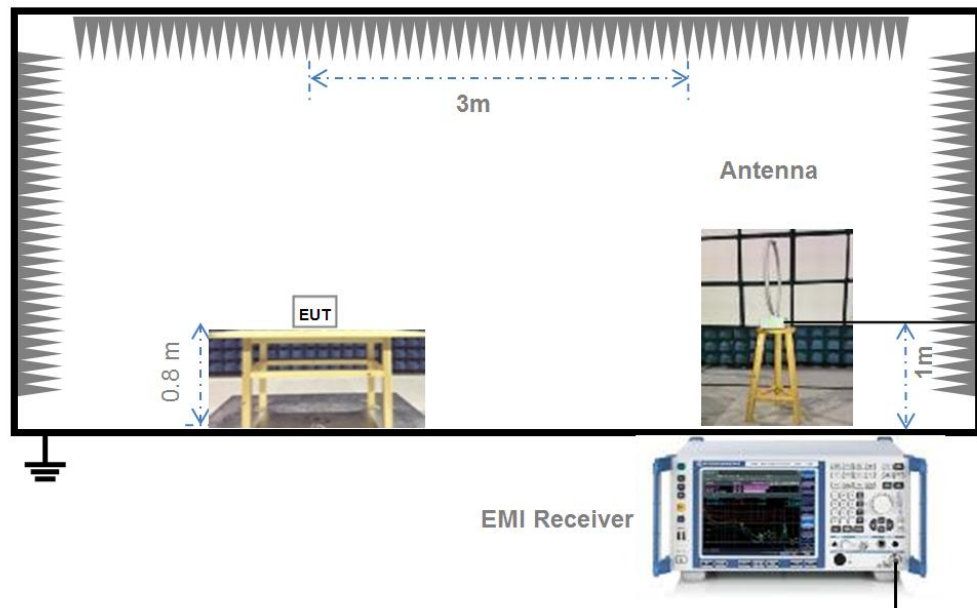
(Diagram 1)

4.6.2 For AC Power Supply Port Test



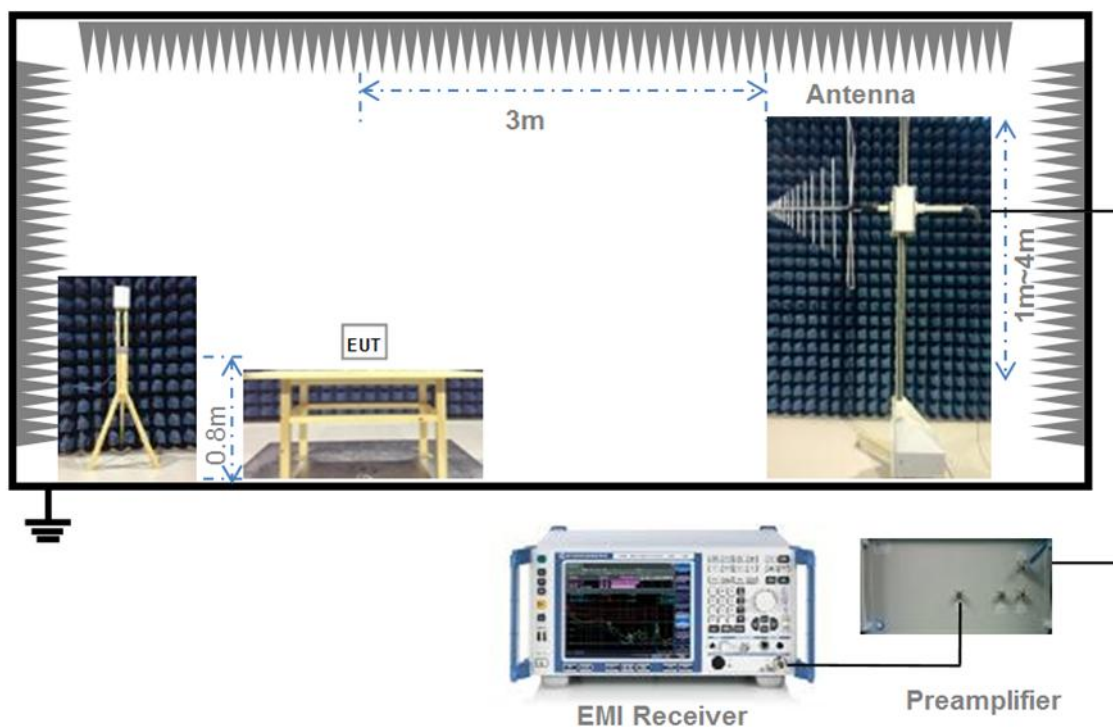
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



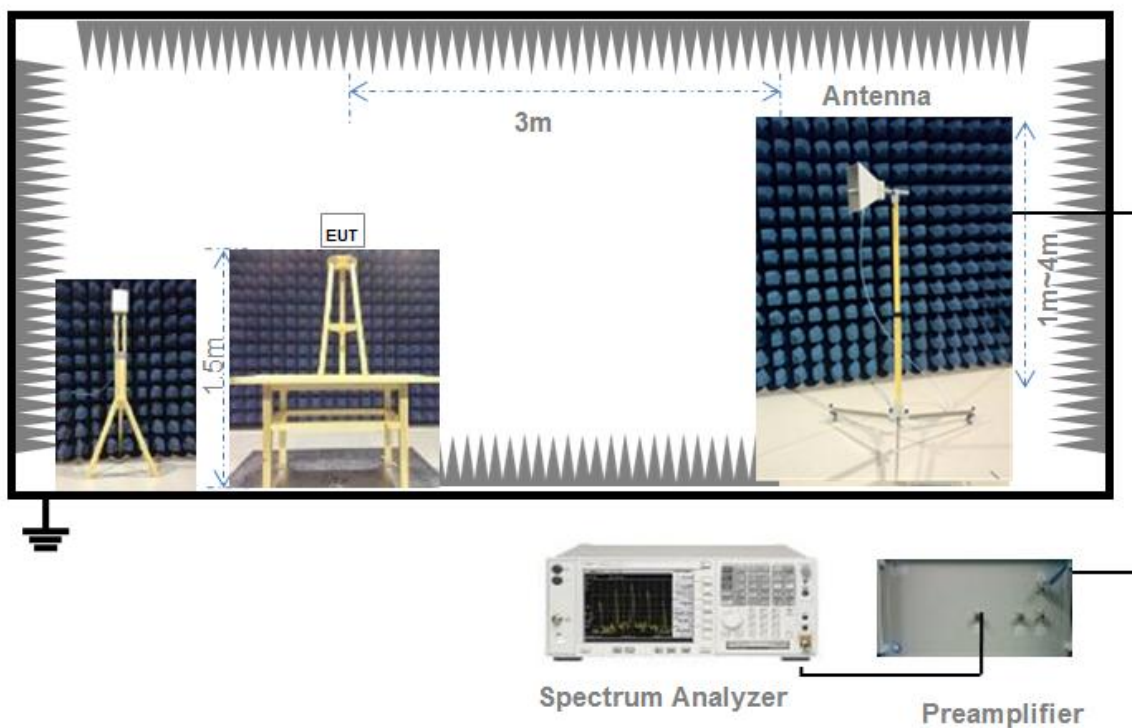
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.
- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle.

Measurements of duty cycle

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

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

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

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

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

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

environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

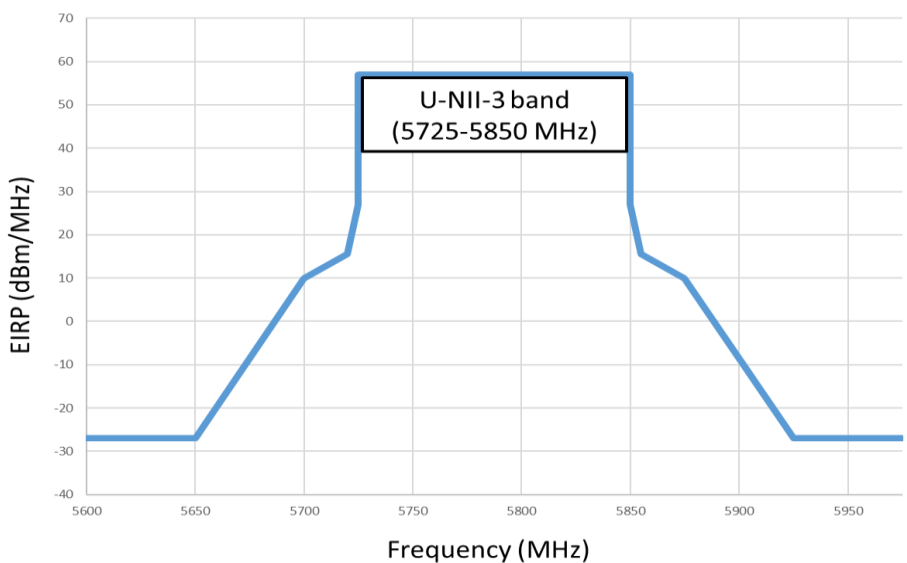
5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

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

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

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

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

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

Note 3: The RF Output Power has considered the Duty Factor.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.39	1.44	96.59%
11n (HT20)	1.30	1.34	96.79%
11ac (VHT20)	1.30	1.34	96.79%
11n (HT40)	0.65	0.69	93.53%
11ac (VHT40)	0.65	0.69	93.53%
11ac (VHT80)	0.32	0.37	88.08%

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	15.23	33.35	250	Pass
11a	CH44	15.17	32.89	250	Pass
11a	CH48	15.19	33.04	250	Pass
11n (HT20)	CH36	13.63	23.08	250	Pass
11n (HT20)	CH44	14.63	29.05	250	Pass
11n (HT20)	CH48	14.62	28.98	250	Pass
11n (HT40)	CH38	12.68	18.54	250	Pass
11n (HT40)	CH46	15.19	33.04	250	Pass
11ac (VHT20)	CH36	13.67	23.29	250	Pass
11ac (VHT20)	CH44	14.97	31.42	250	Pass
11ac (VHT20)	CH48	15.14	32.67	250	Pass
11ac (VHT40)	CH38	12.66	18.45	250	Pass
11ac (VHT40)	CH46	14.52	28.32	250	Pass
11ac (VHT80)	CH42	11.67	14.69	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	15.23	33.35	250	Pass
11a	CH60	15.22	33.27	250	Pass
11a	CH64	15.20	33.12	250	Pass
11n (HT20)	CH52	14.61	28.92	250	Pass
11n (HT20)	CH60	14.57	28.65	250	Pass
11n (HT20)	CH64	14.44	27.81	250	Pass
11n (HT40)	CH54	15.21	33.19	250	Pass
11n (HT40)	CH62	12.88	19.41	250	Pass
11ac (VHT20)	CH52	15.10	32.37	250	Pass
11ac (VHT20)	CH60	14.98	31.49	250	Pass
11ac (VHT20)	CH64	14.93	31.13	250	Pass
11ac (VHT40)	CH54	14.61	18.45	250	Pass
11ac (VHT40)	CH62	12.82	28.32	250	Pass
11ac (VHT80)	CH58	12.58	18.12	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	15.22	33.27	250	Pass
11a	CH116	15.05	31.99	250	Pass
11a	CH140	13.48	22.29	250	Pass
11n (HT20)	CH100	14.55	28.52	250	Pass
11n (HT20)	CH116	14.41	27.62	250	Pass
11n (HT20)	CH140	14.22	26.43	250	Pass
11n (HT40)	CH102	12.59	18.16	250	Pass
11n (HT40)	CH118	15.18	32.97	250	Pass
11n (HT40)	CH134	14.84	30.48	250	Pass
11ac (VHT20)	CH100	14.46	27.94	250	Pass
11ac (VHT20)	CH116	14.43	27.74	250	Pass
11ac (VHT20)	CH140	14.27	26.74	250	Pass
11ac (VHT40)	CH102	12.70	33.27	250	Pass
11ac (VHT40)	CH118	14.53	33.12	250	Pass
11ac (VHT40)	CH134	14.24	26.55	250	Pass
11ac (VHT80)	CH106	12.52	17.87	250	Pass
11ac (VHT80)	CH122	12.43	17.50	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.34	34.20	1000	Pass
11a	CH157	15.20	33.12	1000	Pass
11a	CH165	14.67	29.31	1000	Pass
11n (HT20)	CH149	14.45	27.87	1000	Pass
11n (HT20)	CH157	14.56	28.59	1000	Pass
11n (HT20)	CH165	14.67	29.32	1000	Pass
11n (HT40)	CH151	15.25	33.50	1000	Pass
11n (HT40)	CH159	15.30	33.89	1000	Pass
11ac (VHT20)	CH149	14.63	29.05	1000	Pass
11ac (VHT20)	CH157	14.69	29.45	1000	Pass
11ac (VHT20)	CH165	14.61	28.92	1000	Pass
11ac (VHT40)	CH151	14.63	29.04	1000	Pass
11ac (VHT40)	CH159	14.74	29.79	1000	Pass
11ac (VHT80)	CH155	12.55	17.99	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH2530291-604 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	20.26	16.55
11a	CH44	19.99	16.55
11a	CH48	20.06	16.53
11n (HT20)	CH36	20.40	17.62
11n (HT20)	CH44	20.87	17.62
11n (HT20)	CH48	20.43	17.67
11n (HT40)	CH38	40.49	36.13
11n (HT40)	CH46	40.66	36.10
11ac (VHT20)	CH36	20.45	17.62
11ac (VHT20)	CH44	20.28	17.59
11ac (VHT20)	CH48	20.39	17.59
11ac (VHT40)	CH38	40.51	36.04
11ac (VHT40)	CH46	40.55	36.03
11ac (VHT80)	CH42	81.19	75.16

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	19.98	16.50
11a	CH60	20.15	16.49
11a	CH64	20.02	16.52
11n (HT20)	CH52	20.30	17.63
11n (HT20)	CH60	20.40	17.62
11n (HT20)	CH64	20.18	17.64
11n (HT40)	CH54	40.79	36.13
11n (HT40)	CH62	40.61	36.11
11ac (VHT20)	CH52	20.47	17.61
11ac (VHT20)	CH60	20.31	17.62
11ac (VHT20)	CH64	20.28	17.62
11ac (VHT40)	CH54	40.33	36.02
11ac (VHT40)	CH62	40.76	36.05
11ac (VHT80)	CH58	81.50	75.46

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	20.04	16.53
11a	CH116	19.84	16.52
11a	CH140	19.97	16.51
11n (HT20)	CH100	20.30	17.65
11n (HT20)	CH116	21.54	17.63
11n (HT20)	CH140	20.19	17.64
11n (HT40)	CH102	40.94	36.19
11n (HT40)	CH118	41.99	36.19
11n (HT40)	CH134	40.82	36.17
11ac (VHT20)	CH100	20.95	17.62
11ac (VHT20)	CH116	20.46	17.60
11ac (VHT20)	CH140	20.42	17.58
11ac (VHT40)	CH102	40.86	36.10
11ac (VHT40)	CH118	40.75	36.06
11ac (VHT40)	CH134	40.61	36.03
11ac (VHT80)	CH106	81.49	75.45
11ac (VHT80)	CH122	81.61	75.50

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	19.97	16.46
11a	CH157	20.00	16.51
11a	CH165	19.92	16.53
11n (HT20)	CH149	20.27	17.62
11n (HT20)	CH157	20.45	17.65
11n (HT20)	CH165	20.40	17.62
11n (HT40)	CH151	40.44	36.12
11n (HT40)	CH159	41.07	36.17
11ac (VHT20)	CH149	20.30	17.60
11ac (VHT20)	CH157	20.36	17.61
11ac (VHT20)	CH165	20.30	17.61
11ac (VHT40)	CH151	40.82	36.02
11ac (VHT40)	CH159	40.91	36.08
11ac (VHT80)	CH155	80.88	75.36

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH2530291-604 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.30	500.00	Pass
11a	CH157	15.30	500.00	Pass
11a	CH165	15.30	500.00	Pass
11n (HT20)	CH149	15.30	500.00	Pass
11n (HT20)	CH157	15.20	500.00	Pass
11n (HT20)	CH165	15.30	500.00	Pass
11n (HT40)	CH151	35.30	500.00	Pass
11n (HT40)	CH159	35.30	500.00	Pass
11ac (VHT20)	CH149	15.30	500.00	Pass
11ac (VHT20)	CH157	15.30	500.00	Pass
11ac (VHT20)	CH165	15.30	500.00	Pass
11ac (VHT40)	CH151	35.30	500.00	Pass
11ac (VHT40)	CH159	35.30	500.00	Pass
11ac (VHT80)	CH155	75.40	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document “Annex No.: BL-SH2530291-604 Data Part 3.pdf”.

Note²: 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	4.91	11.00	Pass
11a	CH44	5.24	11.00	Pass
11a	CH48	4.60	11.00	Pass
11n (HT20)	CH36	2.94	11.00	Pass
11n (HT20)	CH44	5.03	11.00	Pass
11n (HT20)	CH48	4.39	11.00	Pass
11n (HT40)	CH38	-0.94	11.00	Pass
11n (HT40)	CH46	2.02	11.00	Pass
11ac (VHT20)	CH36	2.96	11.00	Pass
11ac (VHT20)	CH44	5.01	11.00	Pass
11ac (VHT20)	CH48	4.51	11.00	Pass
11ac (VHT40)	CH38	-1.03	11.00	Pass
11ac (VHT40)	CH46	2.01	11.00	Pass
11ac (VHT80)	CH42	-4.99	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	4.43	11.00	Pass
11a	CH60	3.73	11.00	Pass
11a	CH64	3.49	11.00	Pass
11n (HT20)	CH52	4.05	11.00	Pass
11n (HT20)	CH60	3.41	11.00	Pass
11n (HT20)	CH64	3.17	11.00	Pass
11n (HT40)	CH54	1.08	11.00	Pass
11n (HT40)	CH62	-0.56	11.00	Pass
11ac (VHT20)	CH52	2.58	11.00	Pass
11ac (VHT20)	CH60	1.76	11.00	Pass
11ac (VHT20)	CH64	1.57	11.00	Pass
11ac (VHT40)	CH54	-0.77	11.00	Pass
11ac (VHT40)	CH62	-2.40	11.00	Pass
11ac (VHT80)	CH58	-6.46	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	2.97	11.00	Pass
11a	CH116	2.73	11.00	Pass
11a	CH140	-0.94	11.00	Pass
11n (HT20)	CH100	2.81	11.00	Pass
11n (HT20)	CH116	2.04	11.00	Pass
11n (HT20)	CH140	2.50	11.00	Pass
11n (HT40)	CH102	-0.87	11.00	Pass
11n (HT40)	CH118	-0.57	11.00	Pass
11n (HT40)	CH134	-0.15	11.00	Pass
11ac (VHT20)	CH100	1.83	11.00	Pass
11ac (VHT20)	CH116	2.27	11.00	Pass
11ac (VHT20)	CH140	3.63	11.00	Pass
11ac (VHT40)	CH102	0.59	11.00	Pass
11ac (VHT40)	CH118	-1.32	11.00	Pass
11ac (VHT40)	CH134	-1.43	11.00	Pass
11ac (VHT80)	CH106	-6.83	11.00	Pass
11ac (VHT80)	CH122	-5.88	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-9.08	30.00	Pass
11a	CH157	-9.35	30.00	Pass
11a	CH165	-9.45	30.00	Pass
11n (HT20)	CH149	-9.36	30.00	Pass
11n (HT20)	CH157	-9.61	30.00	Pass
11n (HT20)	CH165	-9.76	30.00	Pass
11n (HT40)	CH151	-12.39	30.00	Pass
11n (HT40)	CH159	-12.76	30.00	Pass
11ac (VHT20)	CH149	-9.39	30.00	Pass
11ac (VHT20)	CH157	-9.71	30.00	Pass
11ac (VHT20)	CH165	-9.82	30.00	Pass
11ac (VHT40)	CH151	-12.24	30.00	Pass
11ac (VHT40)	CH159	-12.73	30.00	Pass
11ac (VHT80)	CH155	-17.64	30.00	Pass

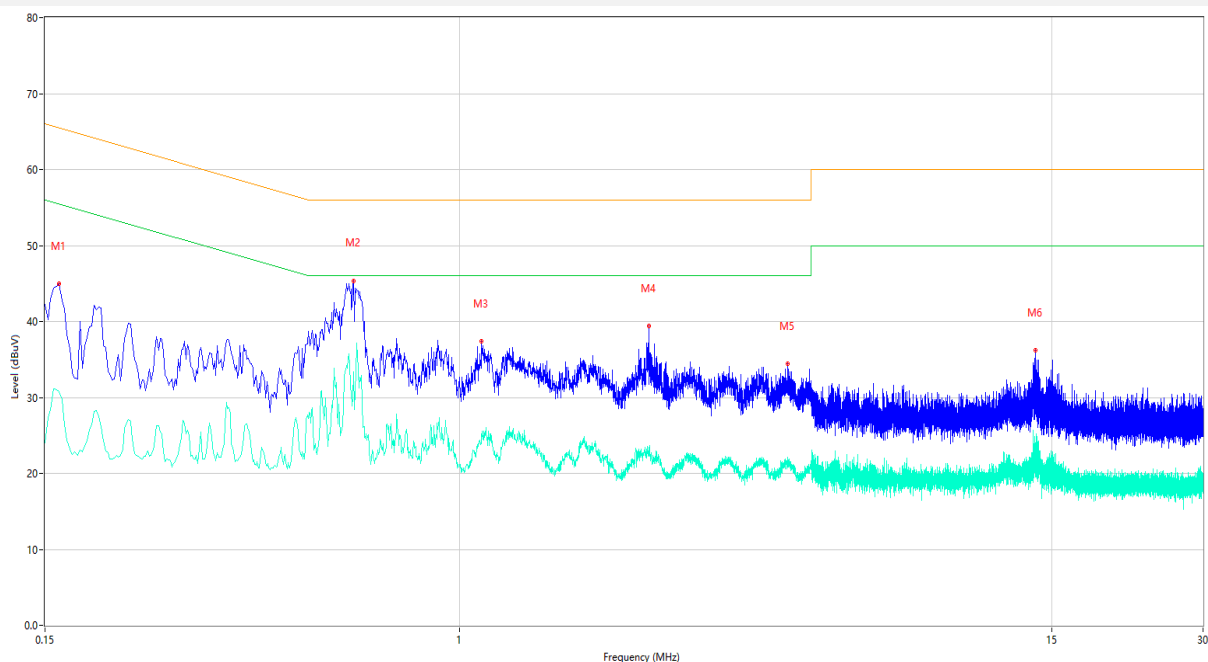
A.5 Conducted Emission

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

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

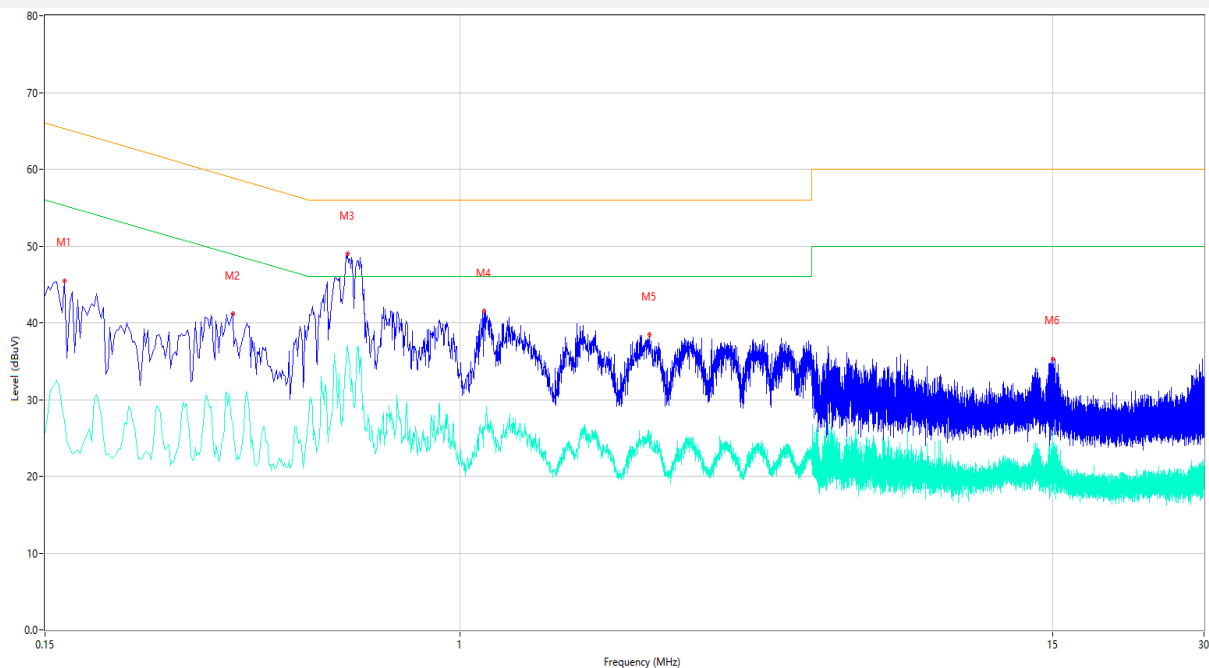
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	44.99	9.82	65.46	20.47	Peak	L	Pass
1**	0.160	30.76	9.82	55.46	24.70	AV	L	Pass
2	0.616	45.36	9.74	56.00	10.64	Peak	L	Pass
2**	0.616	33.42	9.74	46.00	12.58	AV	L	Pass
3	1.106	37.40	9.77	56.00	18.60	Peak	L	Pass
3**	1.106	24.83	9.77	46.00	21.17	AV	L	Pass
4	2.378	39.39	9.65	56.00	16.61	Peak	L	Pass
4**	2.378	23.41	9.65	46.00	22.59	AV	L	Pass
5	4.484	34.41	9.60	56.00	21.59	Peak	L	Pass
5**	4.484	21.78	9.60	46.00	24.22	AV	L	Pass
6	13.924	36.22	8.98	60.00	23.78	Peak	L	Pass
6**	13.924	22.09	8.98	50.00	27.91	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	45.49	9.73	65.26	19.77	Peak	N	Pass
1**	0.164	27.18	9.73	55.26	28.08	AV	N	Pass
2	0.354	41.14	9.74	58.87	17.73	Peak	N	Pass
2**	0.354	27.07	9.74	48.87	21.80	AV	N	Pass
3	0.598	48.97	9.74	56.00	7.03	Peak	N	Pass
3**	0.598	37.06	9.74	46.00	8.94	AV	N	Pass
4	1.116	41.49	9.73	56.00	14.51	Peak	N	Pass
4**	1.116	26.52	9.73	46.00	19.48	AV	N	Pass
5	2.374	38.48	9.75	56.00	17.52	Peak	N	Pass
5**	2.374	25.18	9.75	46.00	20.82	AV	N	Pass
6	15.022	35.30	8.98	60.00	24.70	Peak	N	Pass
6**	15.022	22.86	8.98	50.00	27.14	AV	N	Pass

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

A.6.1 Radiated Spurious Emissions

Test Data

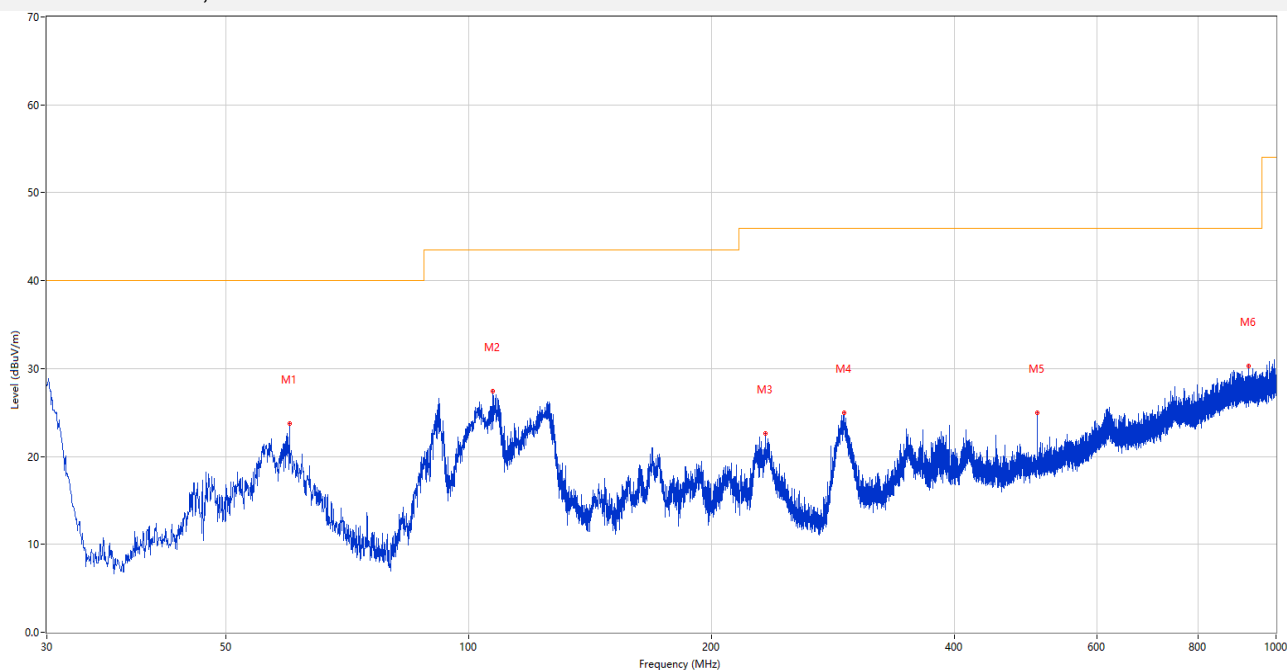
Note 1: The symbol of "--" in the table which means not application.

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.

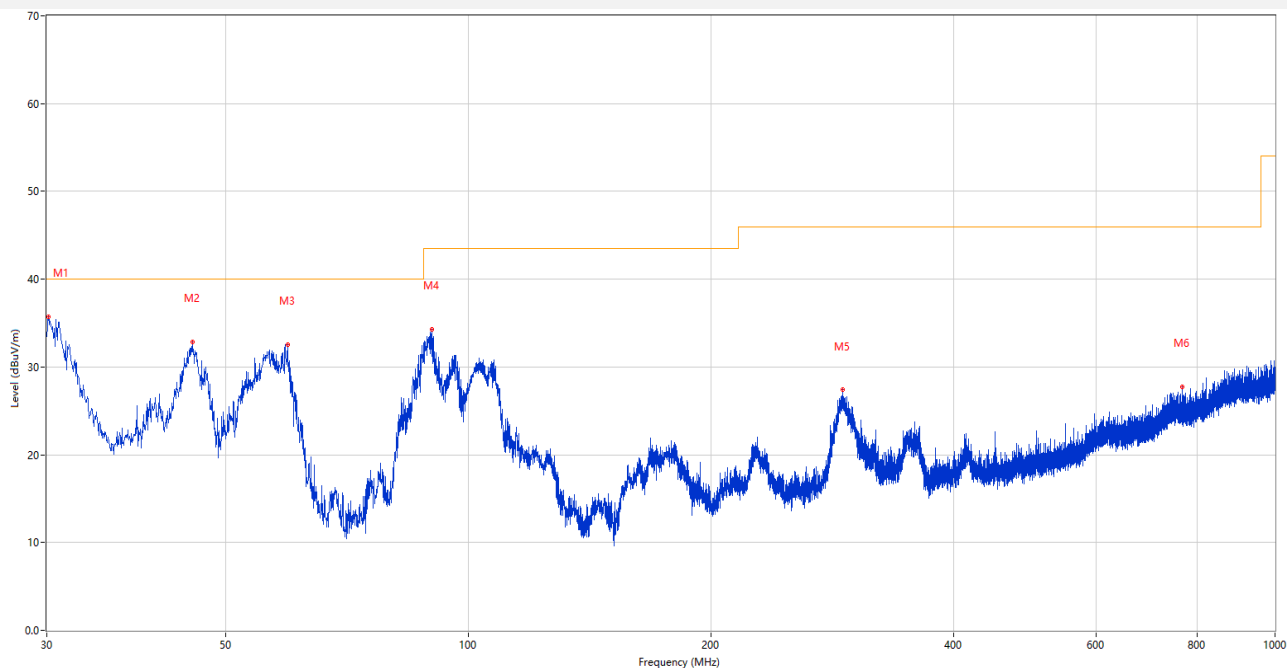
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

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	59.925	23.71	-26.01	40.0	16.29	Peak	0.00	200	Horizontal	Pass
2	107.163	27.47	-26.35	43.5	16.03	Peak	124.00	100	Horizontal	Pass
3	232.924	22.64	-24.80	46.0	23.36	Peak	3.00	100	Horizontal	Pass
4	291.415	24.96	-23.20	46.0	21.04	Peak	321.00	200	Horizontal	Pass
5	506.222	25.00	-17.80	46.0	21.00	Peak	297.00	100	Horizontal	Pass
6	925.116	30.26	-8.97	46.0	15.74	Peak	56.00	100	Horizontal	Pass

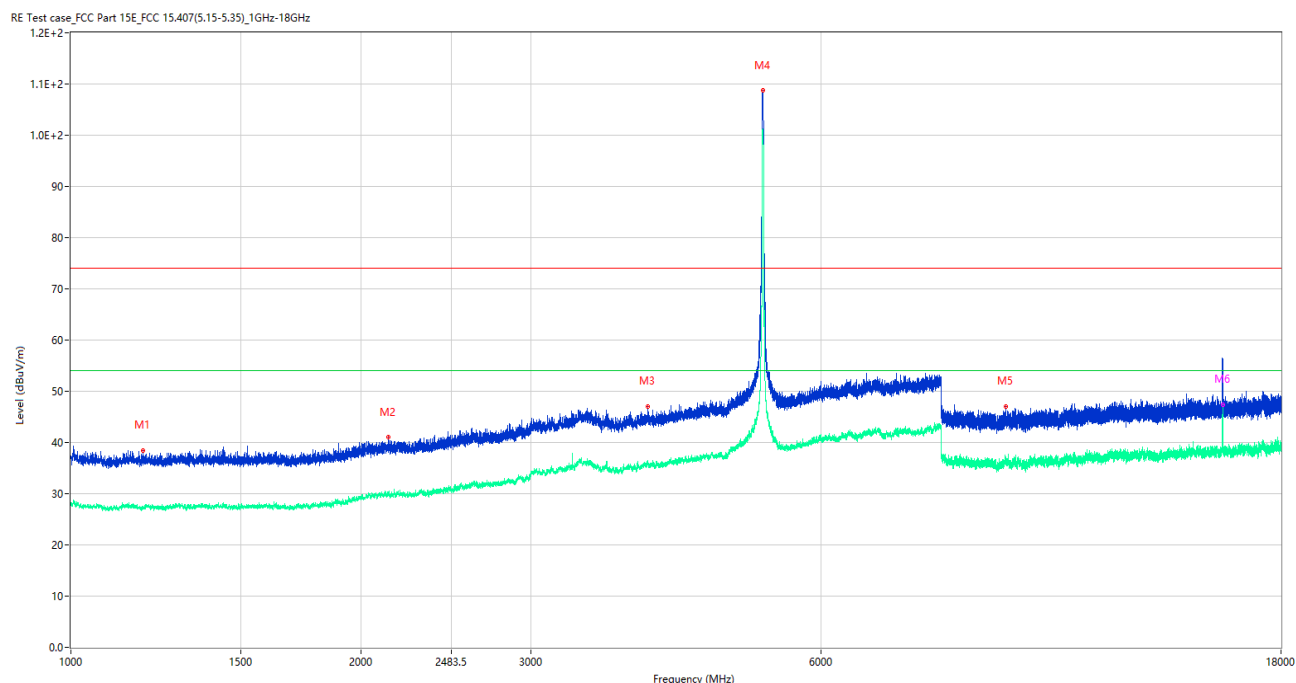
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.145	35.72	-28.91	40.0	4.28	Peak	360.00	100	Vertical	Pass
2	45.471	32.90	-24.67	40.0	7.10	Peak	92.00	100	Vertical	Pass
3	59.633	32.56	-25.94	40.0	7.44	Peak	68.00	100	Vertical	Pass
4	89.994	34.25	-28.04	43.5	9.25	Peak	175.00	200	Vertical	Pass
5	291.172	27.38	-23.19	46.0	18.62	Peak	111.00	100	Vertical	Pass
6	767.346	27.72	-11.96	46.0	18.28	Peak	111.00	100	Vertical	Pass

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

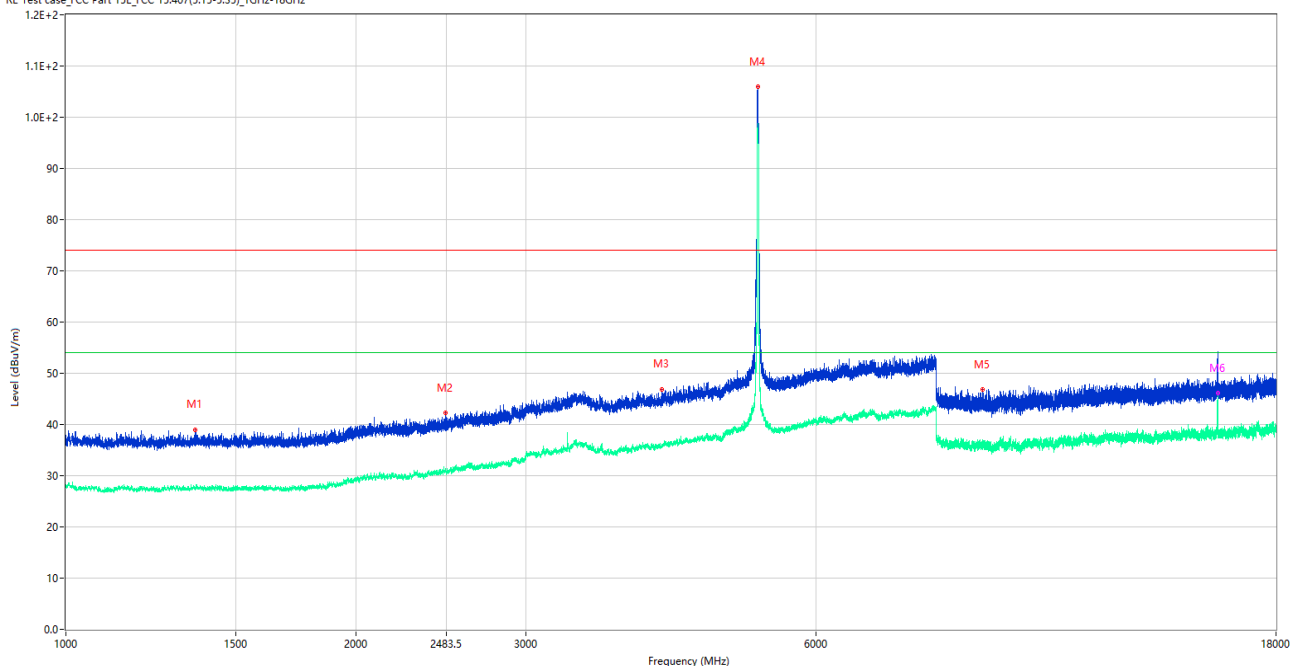
11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1188.000	38.49	-15.90	74.0	35.51	Peak	21.00	150	Horizontal	Pass
1**	1188.000	27.61	-15.90	54.0	26.39	AV	21.00	150	Horizontal	Pass
2	2135.250	41.01	-13.48	74.0	32.99	Peak	297.00	150	Horizontal	Pass
2**	2135.250	29.80	-13.48	54.0	24.20	AV	297.00	150	Horizontal	Pass
3	3968.500	46.95	-3.96	74.0	27.05	Peak	194.00	150	Horizontal	Pass
3**	3968.500	35.71	-3.96	54.0	18.29	AV	194.00	150	Horizontal	Pass
4	5222.000	108.69	-2.36	74.0	-34.69	Peak	356.00	150	Horizontal	N/A
4**	5222.000	100.68	-2.36	54.0	-46.68	AV	356.00	150	Horizontal	N/A
5	9334.988	46.97	-4.99	74.0	27.03	Peak	28.00	150	Horizontal	Pass
5**	9334.988	36.37	-4.99	54.0	17.63	AV	28.00	150	Horizontal	Pass
6	15658.762	53.38	-1.35	74.0	20.62	Peak	360.00	150	Horizontal	Pass
6**	15658.762	47.41	-1.35	54.0	6.59	AV	360.00	150	Horizontal	Pass

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

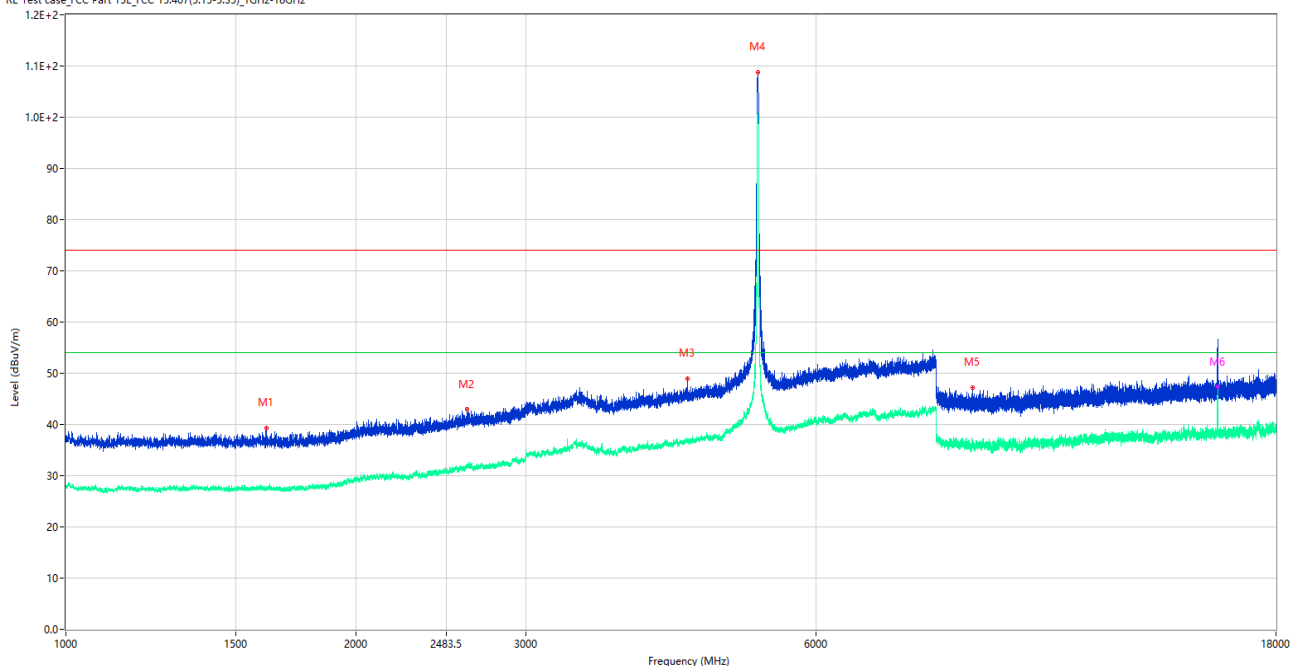
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1360.500	39.02	-15.86	74.0	34.98	Peak	337.00	150	Vertical	Pass
1**	1360.500	27.63	-15.86	54.0	26.37	AV	337.00	150	Vertical	Pass
2	2478.500	42.24	-11.13	74.0	31.76	Peak	102.00	150	Vertical	Pass
2**	2478.500	30.64	-11.13	54.0	23.36	AV	102.00	150	Vertical	Pass
3	4153.000	46.76	-4.67	74.0	27.24	Peak	289.00	150	Vertical	Pass
3**	4153.000	35.96	-4.67	54.0	18.04	AV	289.00	150	Vertical	Pass
4	5221.500	105.90	-2.37	74.0	-31.90	Peak	7.00	150	Vertical	N/A
4**	5221.500	98.58	-2.37	54.0	-44.58	AV	7.00	150	Vertical	N/A
5	8935.987	46.81	-4.27	74.0	27.19	Peak	169.00	150	Vertical	Pass
5**	8935.987	36.12	-4.27	54.0	17.88	AV	169.00	150	Vertical	Pass
6	15662.701	51.99	-1.45	74.0	22.01	Peak	313.00	150	Vertical	Pass
6**	15662.701	46.10	-1.45	54.0	7.90	AV	313.00	150	Vertical	Pass

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

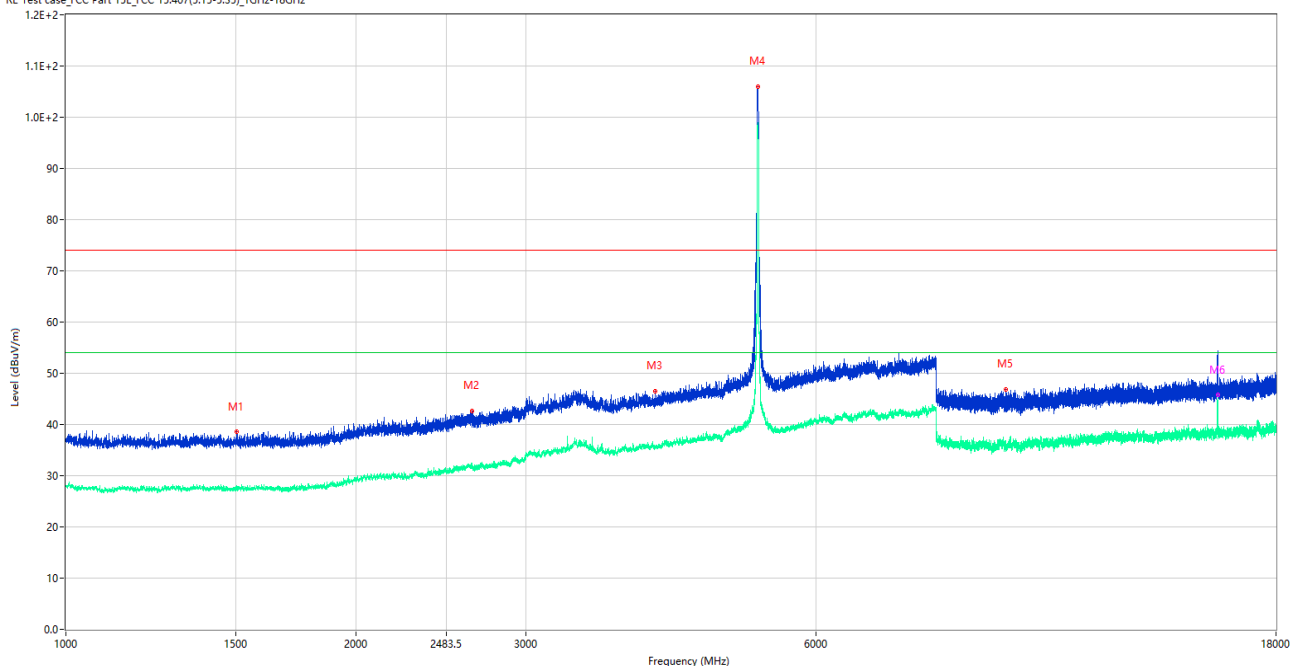
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1613.250	39.31	-16.19	74.0	34.69	Peak	282.00	150	Horizontal	Pass
1**	1613.250	27.20	-16.19	54.0	26.80	AV	282.00	150	Horizontal	Pass
2	2604.750	42.93	-11.20	74.0	31.07	Peak	236.00	150	Horizontal	Pass
2**	2604.750	31.90	-11.20	54.0	22.10	AV	236.00	150	Horizontal	Pass
3	4417.000	48.95	-2.85	74.0	25.05	Peak	243.00	150	Horizontal	Pass
3**	4417.000	36.41	-2.85	54.0	17.59	AV	243.00	150	Horizontal	Pass
4	5219.000	108.79	-2.36	74.0	-34.79	Peak	350.00	150	Horizontal	N/A
4**	5219.000	100.74	-2.36	54.0	-46.74	AV	350.00	150	Horizontal	N/A
5	8723.425	47.11	-5.21	74.0	26.89	Peak	240.00	150	Horizontal	Pass
5**	8723.425	36.04	-5.21	54.0	17.96	AV	240.00	150	Horizontal	Pass
6	15661.912	54.72	-1.47	74.0	19.28	Peak	360.00	150	Horizontal	Pass
6**	15661.912	47.31	-1.47	54.0	6.69	AV	360.00	150	Horizontal	Pass

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

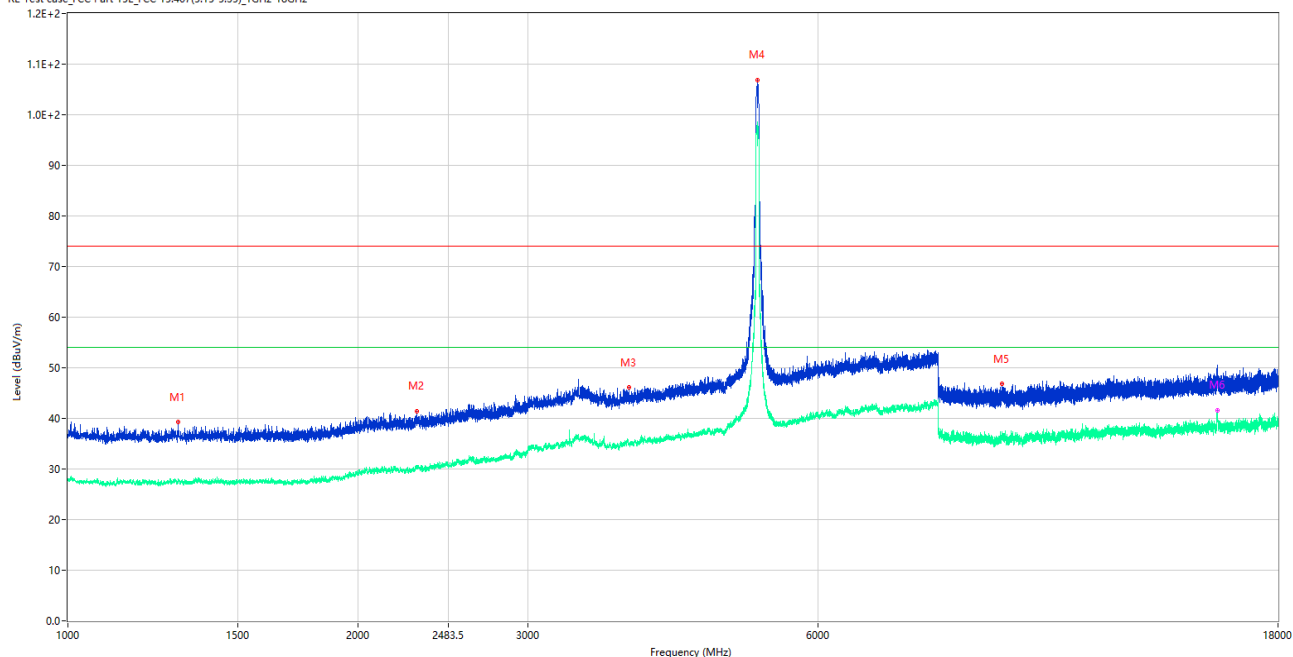
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1504.500	38.57	-16.04	74.0	35.43	Peak	68.00	150	Vertical	Pass
1**	1504.500	27.93	-16.04	54.0	26.07	AV	68.00	150	Vertical	Pass
2	2636.500	42.67	-10.06	74.0	31.33	Peak	72.00	150	Vertical	Pass
2**	2636.500	32.42	-10.06	54.0	21.58	AV	72.00	150	Vertical	Pass
3	4088.500	46.43	-4.99	74.0	27.57	Peak	282.00	150	Vertical	Pass
3**	4088.500	35.74	-4.99	54.0	18.26	AV	282.00	150	Vertical	Pass
4	5222.000	106.03	-2.36	74.0	-32.03	Peak	18.00	150	Vertical	N/A
4**	5222.000	98.75	-2.36	54.0	-44.75	AV	18.00	150	Vertical	N/A
5	9443.526	46.92	-4.55	74.0	27.08	Peak	262.00	150	Vertical	Pass
5**	9443.526	35.57	-4.55	54.0	18.43	AV	262.00	150	Vertical	Pass
6	15662.963	54.45	-1.46	74.0	19.55	Peak	313.00	150	Vertical	Pass
6**	15662.963	45.72	-1.46	54.0	8.28	AV	313.00	150	Vertical	Pass

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

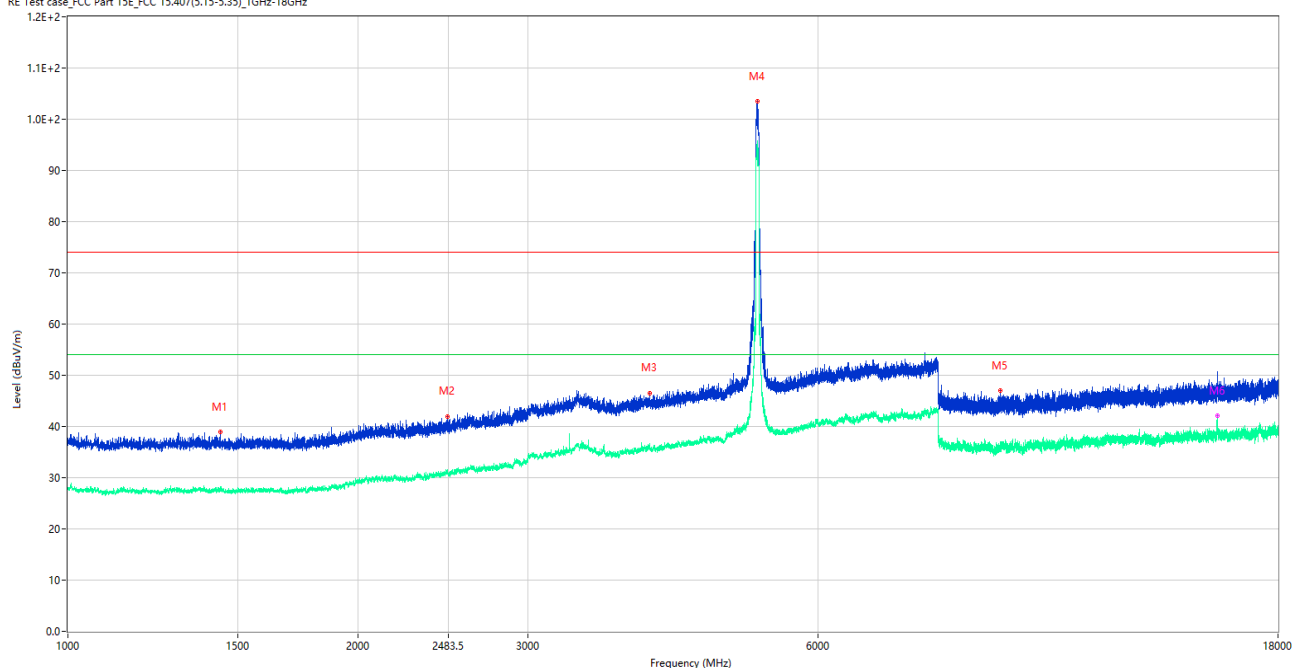
RE Test case_FCC Part 15E FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1300.250	39.23	-15.60	74.0	34.77	Peak	1.00	100	Horizontal	Pass
1**	1300.250	27.21	-15.60	54.0	26.79	AV	1.00	100	Horizontal	Pass
2	2303.250	41.48	-12.87	74.0	32.52	Peak	206.00	100	Horizontal	Pass
2**	2303.250	30.22	-12.87	54.0	23.78	AV	206.00	100	Horizontal	Pass
3	3822.000	46.10	-4.96	74.0	27.90	Peak	49.00	100	Horizontal	Pass
3**	3822.000	34.81	-4.96	54.0	19.19	AV	49.00	100	Horizontal	Pass
4	5194.500	106.80	-2.32	74.0	-32.80	Peak	349.00	100	Horizontal	N/A
4**	5194.500	98.10	-2.32	54.0	-44.10	AV	349.00	100	Horizontal	N/A
5	9306.724	46.90	-5.42	74.0	27.10	Peak	360.00	100	Horizontal	Pass
5**	9306.724	36.47	-5.42	54.0	17.53	AV	360.00	100	Horizontal	Pass
6	15575.550	47.93	-2.50	74.0	26.07	Peak	48.00	100	Horizontal	Pass
6**	15575.550	41.60	-2.50	54.0	12.40	AV	48.00	100	Horizontal	Pass

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

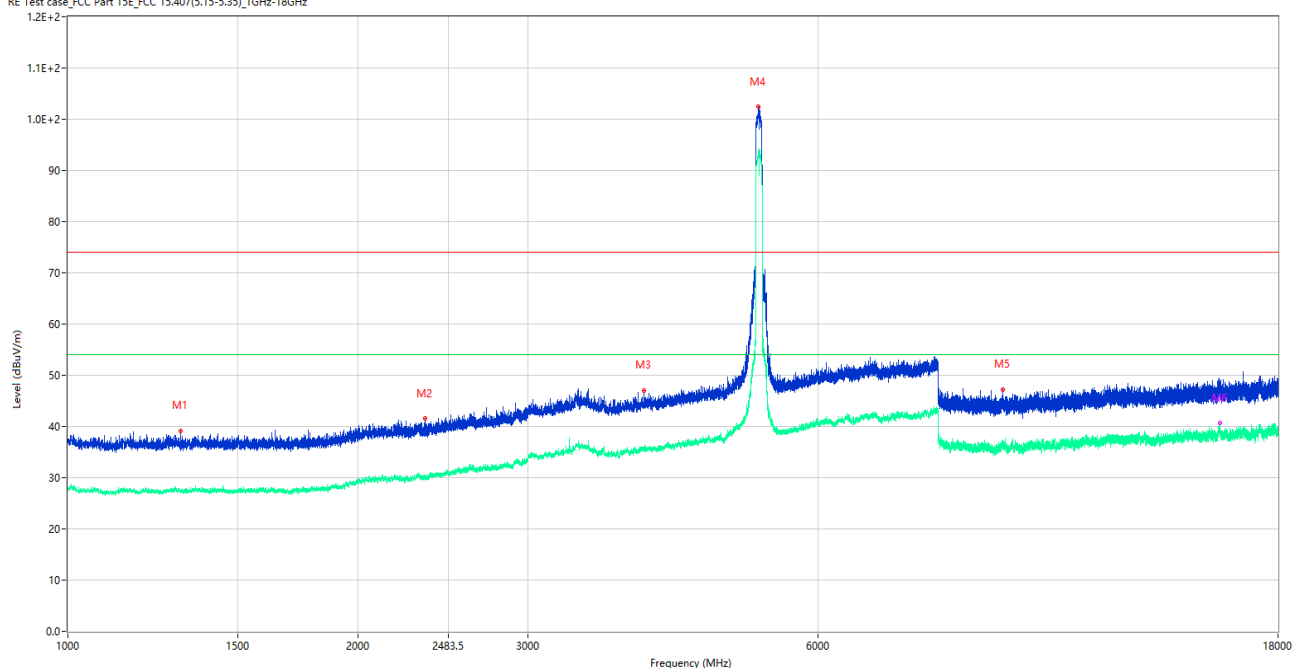
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.250	38.93	-15.97	74.0	35.07	Peak	358.00	100	Vertical	Pass
1**	1439.250	27.71	-15.97	54.0	26.29	AV	358.00	100	Vertical	Pass
2	2475.250	41.96	-11.05	74.0	32.04	Peak	360.00	100	Vertical	Pass
2**	2475.250	31.50	-11.05	54.0	22.50	AV	360.00	100	Vertical	Pass
3	4014.500	46.45	-4.11	74.0	27.55	Peak	359.00	100	Vertical	Pass
3**	4014.500	35.86	-4.11	54.0	18.14	AV	359.00	100	Vertical	Pass
4	5191.500	103.51	-2.30	74.0	-29.51	Peak	12.00	100	Vertical	N/A
4**	5191.500	95.40	-2.30	54.0	-41.40	AV	12.00	100	Vertical	N/A
5	9271.338	46.94	-5.14	74.0	27.06	Peak	360.00	100	Vertical	Pass
5**	9271.338	36.63	-5.14	54.0	17.37	AV	360.00	100	Vertical	Pass
6	15579.750	48.55	-2.32	74.0	25.45	Peak	320.00	100	Vertical	Pass
6**	15579.750	42.10	-2.32	54.0	11.90	AV	320.00	100	Vertical	Pass

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

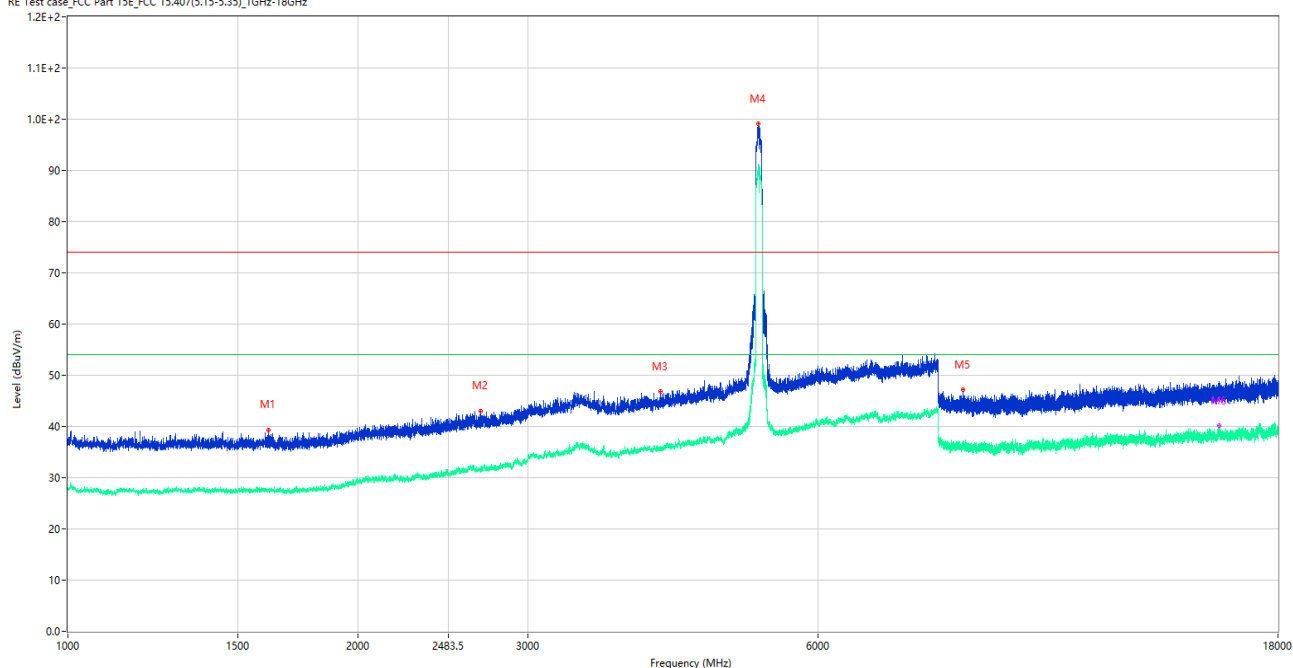
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1309.750	39.18	-15.71	74.0	34.82	Peak	311.00	150	Horizontal	Pass
1**	1309.750	27.23	-15.71	54.0	26.77	AV	311.00	150	Horizontal	Pass
2	2345.000	41.51	-12.05	74.0	32.49	Peak	198.00	150	Horizontal	Pass
2**	2345.000	30.31	-12.05	54.0	23.69	AV	198.00	150	Horizontal	Pass
3	3959.500	47.04	-4.09	74.0	26.96	Peak	302.00	150	Horizontal	Pass
3**	3959.500	35.18	-4.09	54.0	18.82	AV	302.00	150	Horizontal	Pass
4	5203.500	102.38	-2.39	74.0	-28.38	Peak	356.00	150	Horizontal	N/A
4**	5203.500	93.55	-2.39	54.0	-39.55	AV	356.00	150	Horizontal	N/A
5	9325.487	47.15	-5.23	74.0	26.85	Peak	27.00	150	Horizontal	Pass
5**	9325.487	36.07	-5.23	54.0	17.93	AV	27.00	150	Horizontal	Pass
6	15661.912	48.66	-1.47	74.0	25.34	Peak	360.00	150	Horizontal	Pass
6**	15661.912	40.62	-1.47	54.0	13.38	AV	360.00	150	Horizontal	Pass

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

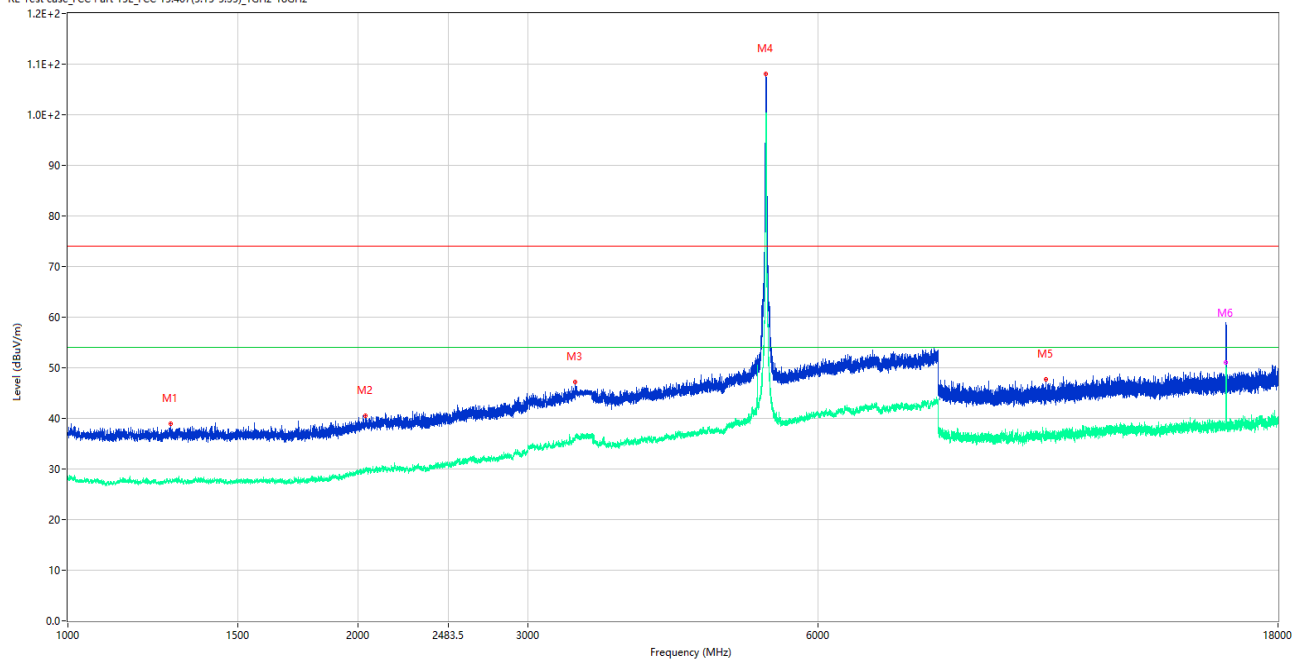
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1614.500	39.38	-16.17	74.0	34.62	Peak	167.00	150	Vertical	Pass
1**	1614.500	27.51	-16.17	54.0	26.49	AV	167.00	150	Vertical	Pass
2	2681.500	43.04	-10.53	74.0	30.96	Peak	29.00	150	Vertical	Pass
2**	2681.500	31.52	-10.53	54.0	22.48	AV	29.00	150	Vertical	Pass
3	4116.000	46.76	-4.18	74.0	27.24	Peak	360.00	150	Vertical	Pass
3**	4116.000	35.74	-4.18	54.0	18.26	AV	360.00	150	Vertical	Pass
4	5203.500	99.11	-2.39	74.0	-25.11	Peak	21.00	150	Vertical	N/A
4**	5203.500	90.55	-2.39	54.0	-36.55	AV	21.00	150	Vertical	N/A
5	8489.250	47.11	-4.75	74.0	26.89	Peak	6.00	150	Vertical	Pass
5**	8489.250	36.13	-4.75	54.0	17.87	AV	6.00	150	Vertical	Pass
6	15652.987	46.25	-1.66	74.0	27.75	Peak	360.00	150	Vertical	Pass
6**	15652.987	40.22	-1.66	54.0	13.78	AV	360.00	150	Vertical	Pass

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

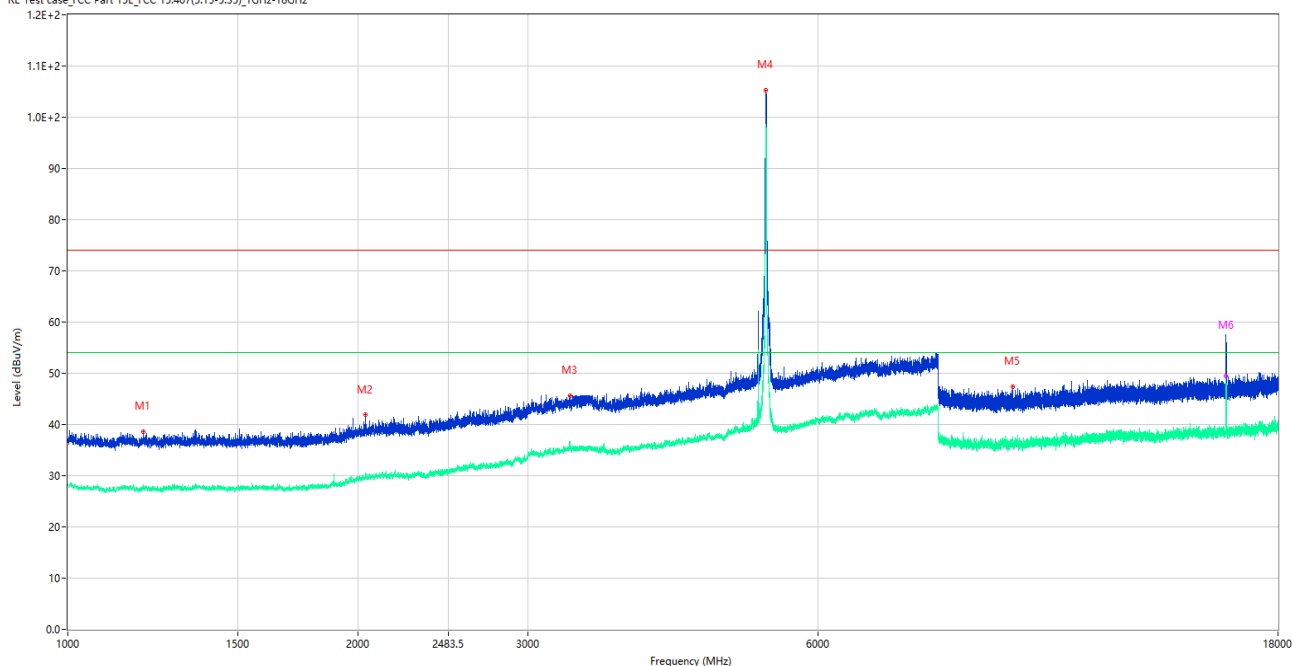
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1278.500	38.95	-15.88	74.0	35.05	Peak	360.00	150	Horizontal	Pass
1**	1278.500	27.68	-15.88	54.0	26.32	AV	360.00	150	Horizontal	Pass
2	2035.000	40.58	-13.39	74.0	33.42	Peak	351.00	150	Horizontal	Pass
2**	2035.000	29.94	-13.39	54.0	24.06	AV	351.00	150	Horizontal	Pass
3	3362.000	47.22	-5.58	74.0	26.78	Peak	296.00	150	Horizontal	Pass
3**	3362.000	36.20	-5.58	54.0	17.80	AV	296.00	150	Horizontal	Pass
4	5301.000	108.13	-2.07	74.0	-34.13	Peak	178.00	150	Horizontal	N/A
4**	5301.000	99.89	-2.07	54.0	-45.89	AV	178.00	150	Horizontal	N/A
5	10333.674	47.78	-3.20	74.0	26.22	Peak	240.00	150	Horizontal	Pass
5**	10333.674	36.57	-3.20	54.0	17.43	AV	240.00	150	Horizontal	Pass
6	15903.674	56.92	-2.12	74.0	17.08	Peak	182.00	150	Horizontal	Pass
6**	15903.674	51.00	-2.12	54.0	3.00	AV	182.00	150	Horizontal	Pass

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

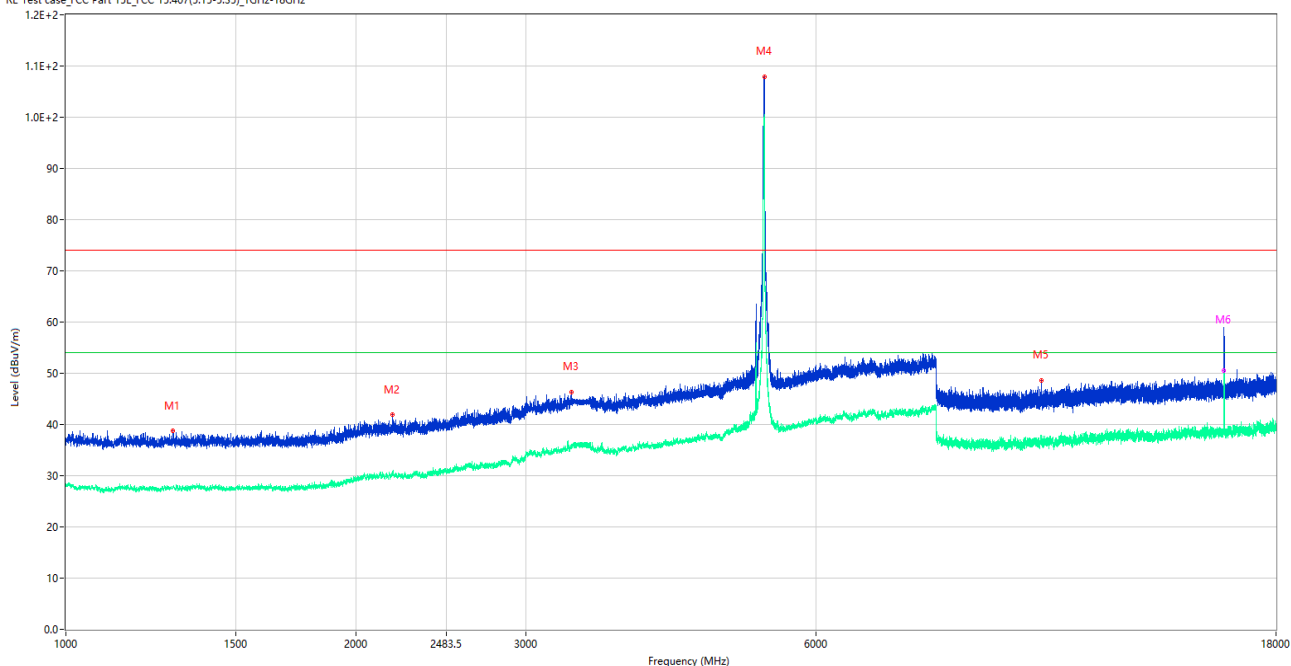
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.500	38.63	-15.75	74.0	35.37	Peak	197.00	150	Vertical	Pass
1**	1198.500	27.81	-15.75	54.0	26.19	AV	197.00	150	Vertical	Pass
2	2035.750	41.91	-13.35	74.0	32.09	Peak	360.00	150	Vertical	Pass
2**	2035.750	30.42	-13.35	54.0	23.58	AV	360.00	150	Vertical	Pass
3	3321.000	45.69	-6.37	74.0	28.31	Peak	0.00	150	Vertical	Pass
3**	3321.000	35.57	-6.37	54.0	18.43	AV	0.00	150	Vertical	Pass
4	5301.000	105.31	-2.07	74.0	-31.31	Peak	196.00	150	Vertical	N/A
4**	5301.000	97.38	-2.07	54.0	-43.38	AV	196.00	150	Vertical	N/A
5	9544.463	47.36	-2.67	74.0	26.64	Peak	99.00	150	Vertical	Pass
5**	9544.463	37.21	-2.67	54.0	16.79	AV	99.00	150	Vertical	Pass
6	15901.050	56.42	-1.97	74.0	17.58	Peak	250.00	150	Vertical	Pass
6**	15901.050	49.41	-1.97	54.0	4.59	AV	250.00	150	Vertical	Pass

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

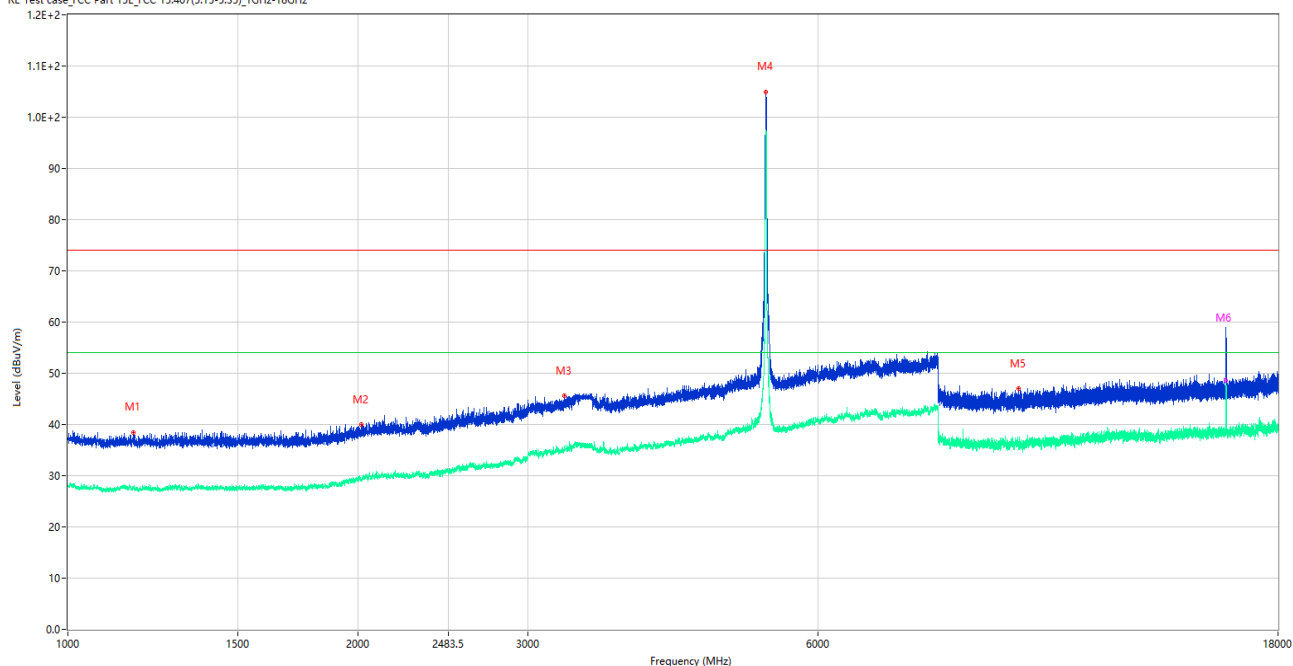
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1291.750	38.73	-15.82	74.0	35.27	Peak	37.00	150	Horizontal	Pass
1**	1291.750	27.80	-15.82	54.0	26.20	AV	37.00	150	Horizontal	Pass
2	2183.500	41.85	-13.05	74.0	32.15	Peak	349.00	150	Horizontal	Pass
2**	2183.500	30.85	-13.05	54.0	23.15	AV	349.00	150	Horizontal	Pass
3	3345.500	46.37	-6.16	74.0	27.63	Peak	334.00	150	Horizontal	Pass
3**	3345.500	35.99	-6.16	54.0	18.01	AV	334.00	150	Horizontal	Pass
4	5301.500	107.94	-2.07	74.0	-33.94	Peak	178.00	150	Horizontal	N/A
4**	5301.500	150.22	-2.07	54.0	-46.22	AV	178.00	150	Horizontal	N/A
5	10271.213	48.62	-2.96	74.0	25.38	Peak	334.00	150	Horizontal	Pass
5**	10271.213	37.27	-2.96	54.0	16.73	AV	334.00	150	Horizontal	Pass
6	15900.000	56.32	-1.86	74.0	17.68	Peak	184.00	150	Horizontal	Pass
6**	15900.000	50.61	-1.86	54.0	3.39	AV	184.00	150	Horizontal	Pass

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

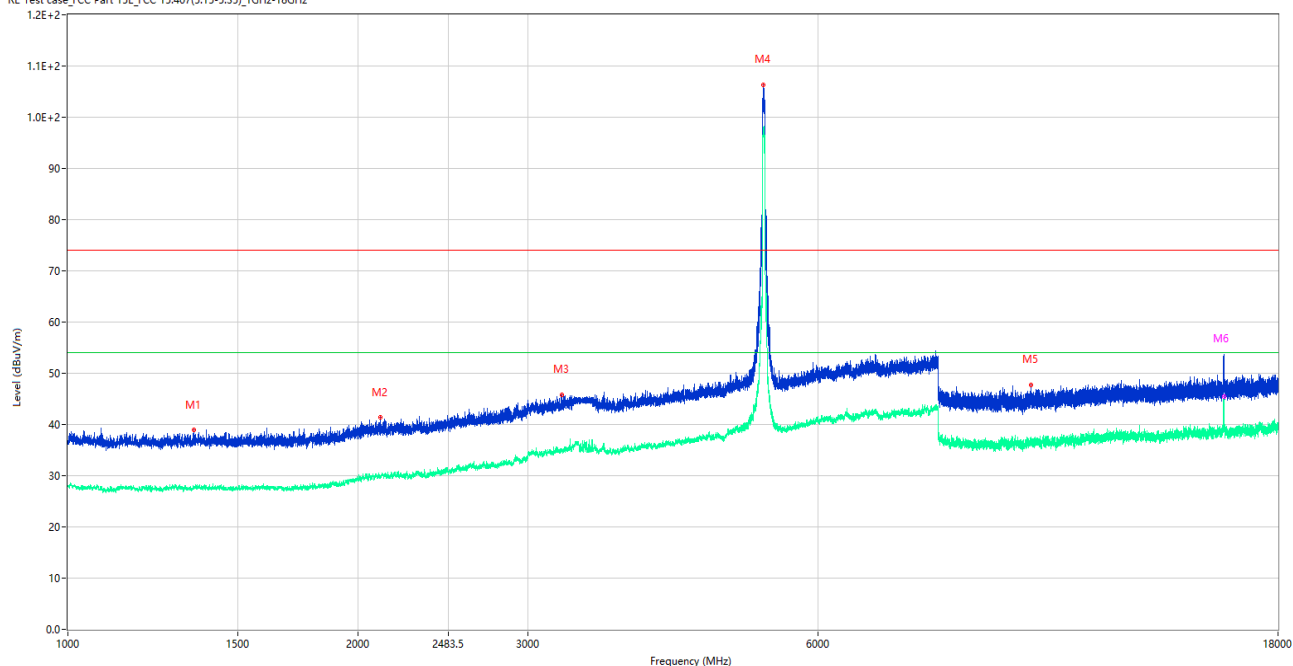
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1169.750	38.45	-15.51	74.0	35.55	Peak	19.00	150	Vertical	Pass
1**	1169.750	27.76	-15.51	54.0	26.24	AV	19.00	150	Vertical	Pass
2	2014.500	39.98	-14.23	74.0	34.02	Peak	313.00	150	Vertical	Pass
2**	2014.500	29.11	-14.23	54.0	24.89	AV	313.00	150	Vertical	Pass
3	3270.500	45.60	-6.88	74.0	28.40	Peak	19.00	150	Vertical	Pass
3**	3270.500	35.05	-6.88	54.0	18.95	AV	19.00	150	Vertical	Pass
4	5299.000	104.99	-2.01	74.0	-30.99	Peak	187.00	150	Vertical	N/A
4**	5299.000	97.50	-2.01	54.0	-43.50	AV	187.00	150	Vertical	N/A
5	9679.362	47.05	-3.62	74.0	26.95	Peak	360.00	150	Vertical	Pass
5**	9679.362	35.98	-3.62	54.0	18.02	AV	360.00	150	Vertical	Pass
6	15896.588	53.33	-1.74	74.0	20.67	Peak	252.00	150	Vertical	Pass
6**	15896.588	48.55	-1.74	54.0	5.45	AV	252.00	150	Vertical	Pass

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

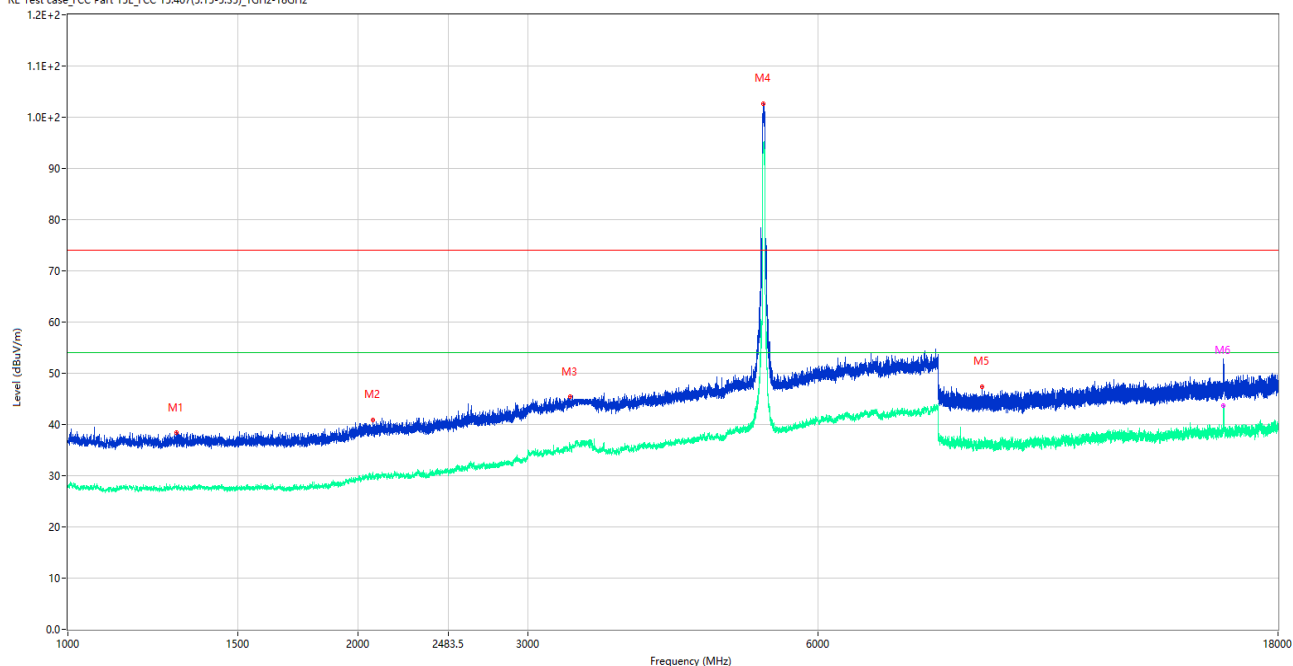
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1352.000	38.90	-15.91	74.0	35.10	Peak	39.00	150	Horizontal	Pass
1**	1352.000	27.41	-15.91	54.0	26.59	AV	39.00	150	Horizontal	Pass
2	2110.000	41.35	-13.59	74.0	32.65	Peak	224.00	150	Horizontal	Pass
2**	2110.000	29.78	-13.59	54.0	24.22	AV	224.00	150	Horizontal	Pass
3	3255.000	45.73	-7.29	74.0	28.27	Peak	0.00	150	Horizontal	Pass
3**	3255.000	34.97	-7.29	54.0	19.03	AV	0.00	150	Horizontal	Pass
4	5268.500	106.40	-2.44	74.0	-32.40	Peak	179.00	150	Horizontal	N/A
4**	5268.500	98.08	-2.44	54.0	-44.08	AV	179.00	150	Horizontal	N/A
5	9975.763	47.75	-3.76	74.0	26.25	Peak	237.00	150	Horizontal	Pass
5**	9975.763	36.95	-3.76	54.0	17.05	AV	237.00	150	Horizontal	Pass
6	15820.463	49.38	-1.70	74.0	24.62	Peak	184.00	150	Horizontal	Pass
6**	15820.463	45.40	-1.70	54.0	8.60	AV	184.00	150	Horizontal	Pass

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

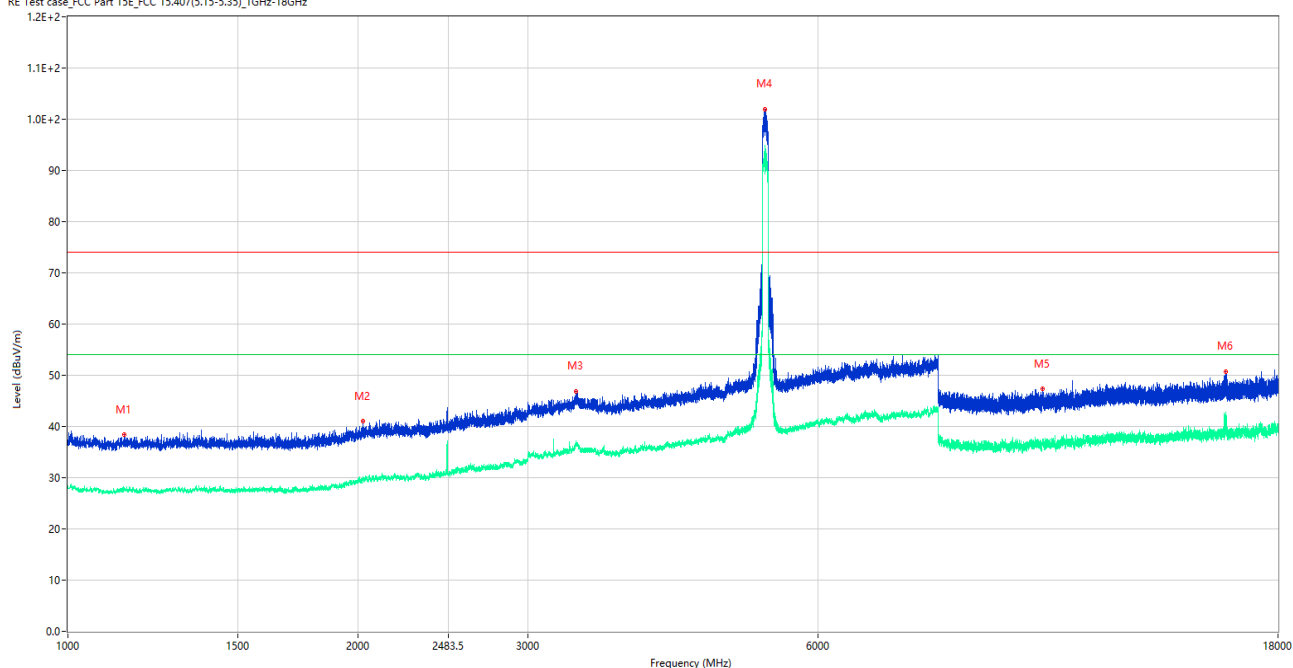
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1295.250	38.40	-15.72	74.0	35.60	Peak	81.00	150	Vertical	Pass
1**	1295.250	27.82	-15.72	54.0	26.18	AV	81.00	150	Vertical	Pass
2	2070.250	40.92	-13.75	74.0	33.08	Peak	93.00	150	Vertical	Pass
2**	2070.250	29.79	-13.75	54.0	24.21	AV	93.00	150	Vertical	Pass
3	3320.000	45.51	-6.34	74.0	28.49	Peak	39.00	150	Vertical	Pass
3**	3320.000	36.09	-6.34	54.0	17.91	AV	39.00	150	Vertical	Pass
4	5267.500	102.68	-2.40	74.0	-28.68	Peak	197.00	150	Vertical	N/A
4**	5267.500	94.75	-2.40	54.0	-40.75	AV	197.00	150	Vertical	N/A
5	8884.450	47.37	-4.66	74.0	26.63	Peak	285.00	150	Vertical	Pass
5**	8884.450	36.49	-4.66	54.0	17.51	AV	285.00	150	Vertical	Pass
6	15804.188	51.07	-1.60	74.0	22.93	Peak	248.00	150	Vertical	Pass
6**	15804.188	43.65	-1.60	54.0	10.35	AV	248.00	150	Vertical	Pass

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

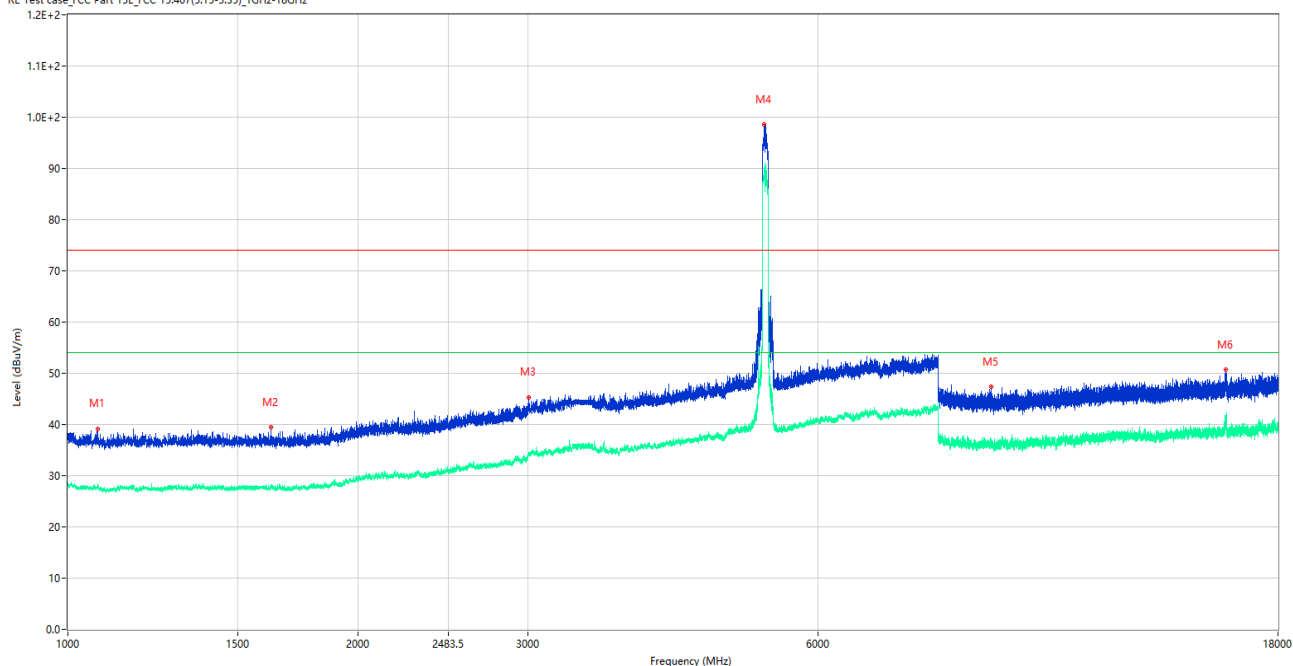
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1144.750	38.35	-15.62	74.0	35.65	Peak	0.00	150	Horizontal	Pass
1**	1144.750	27.84	-15.62	54.0	26.16	AV	0.00	150	Horizontal	Pass
2	2022.000	41.02	-14.11	74.0	32.98	Peak	2.00	150	Horizontal	Pass
2**	2022.000	30.06	-14.11	54.0	23.94	AV	2.00	150	Horizontal	Pass
3	3364.500	46.84	-5.23	74.0	27.16	Peak	360.00	150	Horizontal	Pass
3**	3364.500	36.28	-5.23	54.0	17.72	AV	360.00	150	Horizontal	Pass
4	5286.000	102.02	-2.12	74.0	-28.02	Peak	174.00	150	Horizontal	N/A
4**	5286.000	94.47	-2.12	54.0	-40.47	AV	174.00	150	Horizontal	N/A
5	10266.225	47.36	-3.09	74.0	26.64	Peak	0.00	150	Horizontal	Pass
5**	10266.225	37.47	-3.09	54.0	16.53	AV	0.00	150	Horizontal	Pass
6	15888.451	50.78	-1.46	74.0	23.22	Peak	181.00	150	Horizontal	Pass
6**	15888.451	41.47	-1.46	54.0	12.53	AV	181.00	150	Horizontal	Pass

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

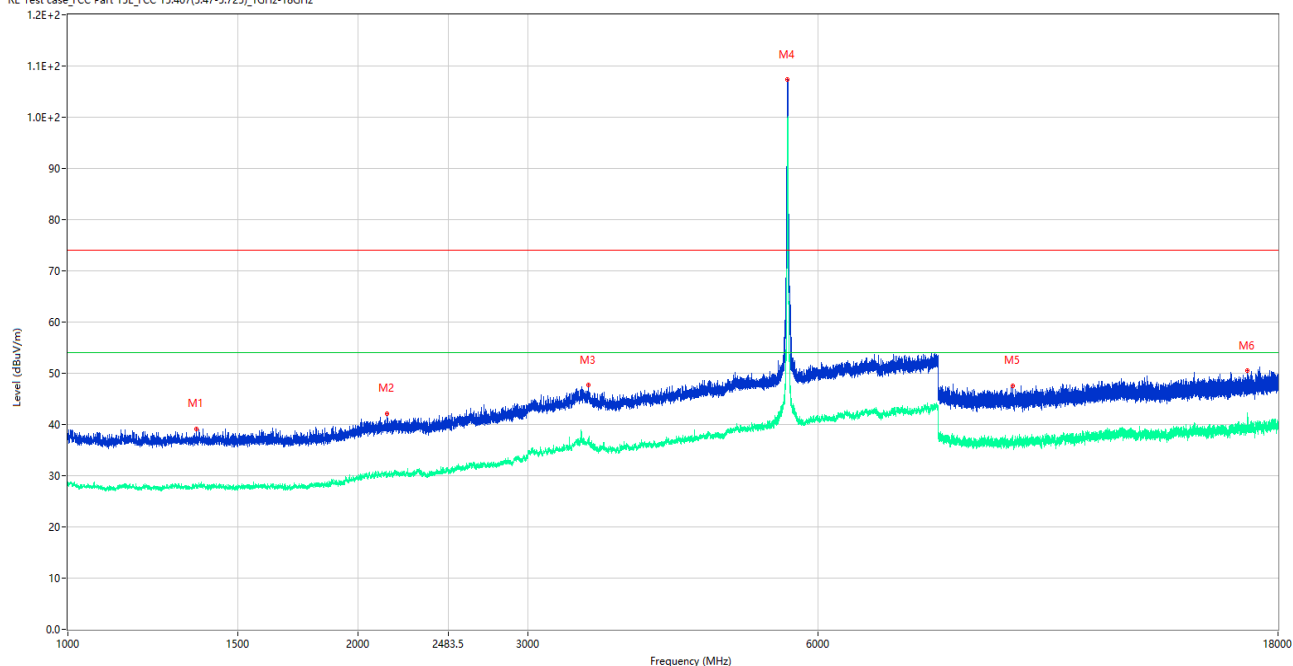
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1073.000	39.15	-15.26	74.0	34.85	Peak	68.00	150	Vertical	Pass
1**	1073.000	27.52	-15.26	54.0	26.48	AV	68.00	150	Vertical	Pass
2	1623.000	39.45	-16.00	74.0	34.55	Peak	332.00	150	Vertical	Pass
2**	1623.000	27.54	-16.00	54.0	26.46	AV	332.00	150	Vertical	Pass
3	3006.500	45.28	-8.13	74.0	28.72	Peak	1.00	150	Vertical	Pass
3**	3006.500	34.48	-8.13	54.0	19.52	AV	1.00	150	Vertical	Pass
4	5279.000	98.52	-2.33	74.0	-24.52	Peak	192.00	150	Vertical	N/A
4**	5279.000	89.82	-2.33	54.0	-35.82	AV	192.00	150	Vertical	N/A
5	9068.750	47.36	-4.55	74.0	26.64	Peak	52.00	150	Vertical	Pass
5**	9068.750	36.57	-4.55	54.0	17.43	AV	52.00	150	Vertical	Pass
6	15877.950	50.67	-1.66	74.0	23.33	Peak	211.00	150	Vertical	Pass
6**	15877.950	40.67	-1.66	54.0	13.33	AV	211.00	150	Vertical	Pass

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

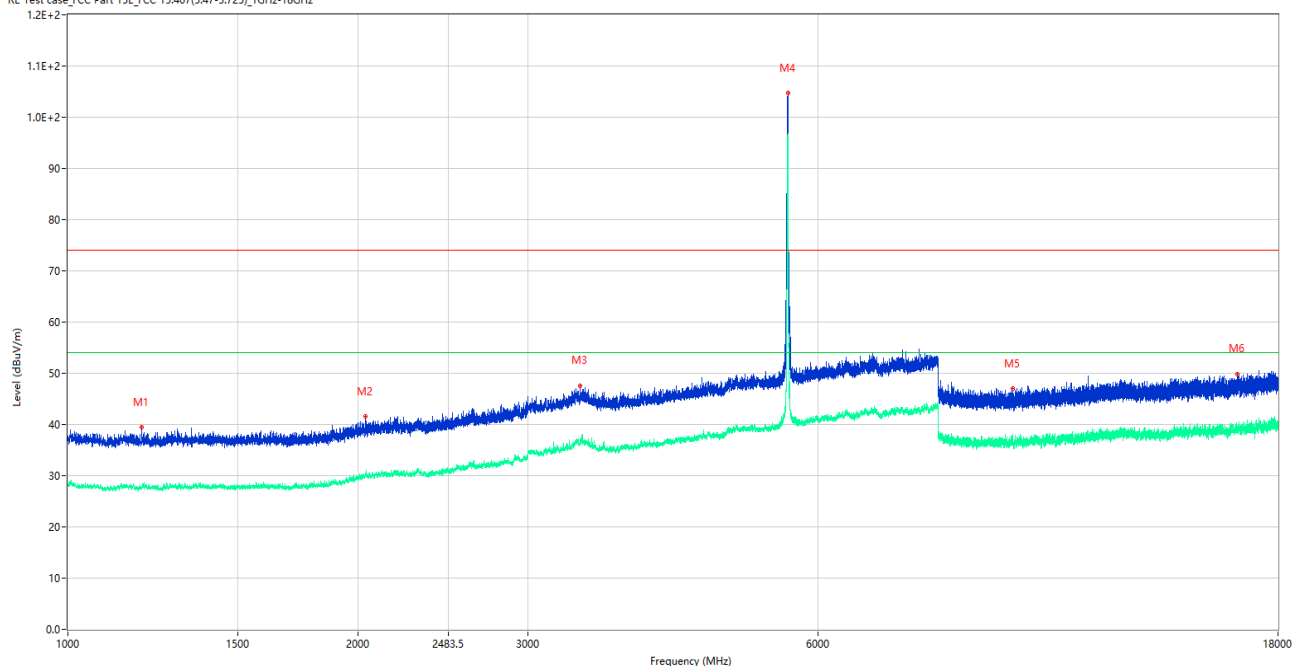
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1359.000	39.19	-15.86	74.0	34.81	Peak	355.00	150	Horizontal	Pass
1**	1359.000	28.16	-15.86	54.0	25.84	AV	355.00	150	Horizontal	Pass
2	2142.000	42.12	-13.84	74.0	31.88	Peak	360.00	150	Horizontal	Pass
2**	2142.000	29.65	-13.84	54.0	24.35	AV	360.00	150	Horizontal	Pass
3	3469.500	47.69	-5.48	74.0	26.31	Peak	150.00	150	Horizontal	Pass
3**	3469.500	36.81	-5.48	54.0	17.19	AV	150.00	150	Horizontal	Pass
4	5578.500	107.33	-2.88	74.0	-33.33	Peak	170.00	150	Horizontal	N/A
4**	5578.500	99.62	-2.88	54.0	-45.62	AV	170.00	150	Horizontal	N/A
5	9551.112	47.58	-2.51	74.0	26.42	Peak	52.00	150	Horizontal	Pass
5**	9551.112	37.02	-2.51	54.0	16.98	AV	52.00	150	Horizontal	Pass
6	16735.012	50.56	-1.50	74.0	23.44	Peak	181.00	150	Horizontal	Pass
6**	16735.012	40.36	-1.50	54.0	13.64	AV	181.00	150	Horizontal	Pass

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

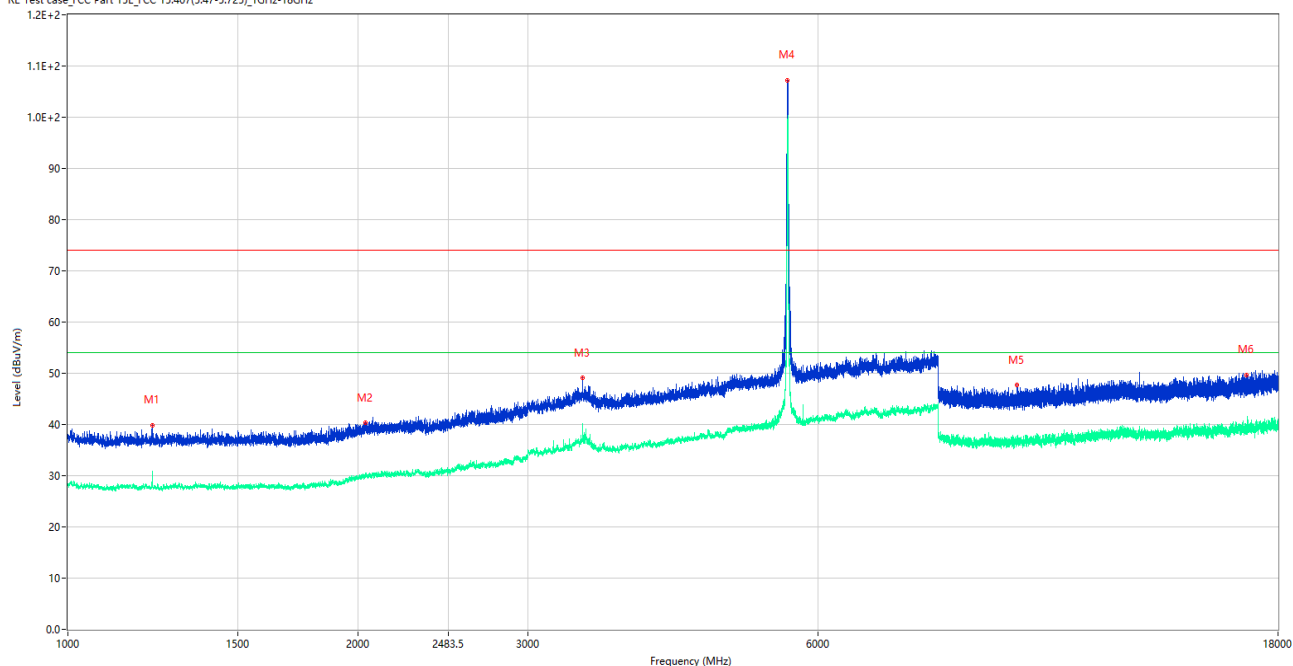
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1191.750	39.40	-15.81	74.0	34.60	Peak	319.00	150	Vertical	Pass
1**	1191.750	27.47	-15.81	54.0	26.53	AV	319.00	150	Vertical	Pass
2	2034.750	41.55	-13.40	74.0	32.45	Peak	182.00	150	Vertical	Pass
2**	2034.750	30.13	-13.40	54.0	23.87	AV	182.00	150	Vertical	Pass
3	3398.000	47.55	-5.74	74.0	26.45	Peak	81.00	150	Vertical	Pass
3**	3398.000	36.97	-5.74	54.0	17.03	AV	81.00	150	Vertical	Pass
4	5582.000	104.69	-2.85	74.0	-30.69	Peak	190.00	150	Vertical	N/A
4**	5582.000	96.51	-2.85	54.0	-42.51	AV	190.00	150	Vertical	N/A
5	9548.262	47.05	-2.54	74.0	26.95	Peak	147.00	150	Vertical	Pass
5**	9548.262	36.92	-2.54	54.0	17.08	AV	147.00	150	Vertical	Pass
6	16339.425	49.88	-1.53	74.0	24.12	Peak	320.00	150	Vertical	Pass
6**	16339.425	38.81	-1.53	54.0	15.19	AV	320.00	150	Vertical	Pass

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

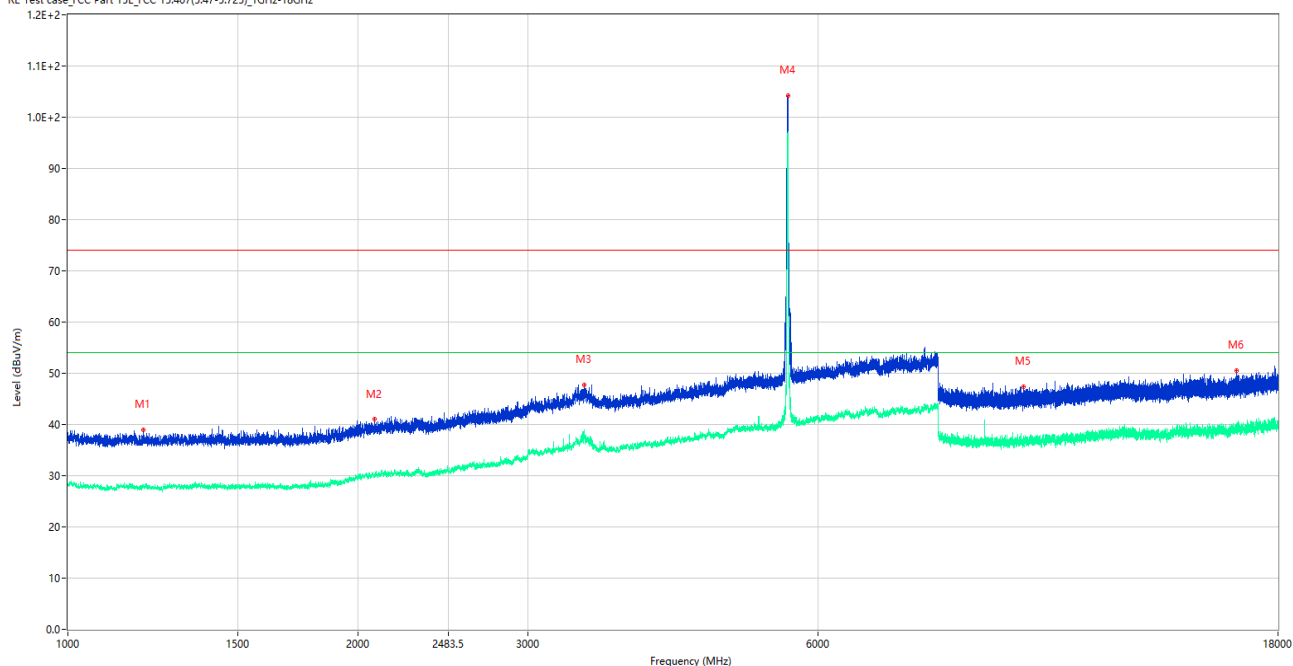
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1223.500	39.87	-15.99	74.0	34.13	Peak	241.00	150	Horizontal	Pass
1**	1223.500	30.22	-15.99	54.0	23.78	AV	241.00	150	Horizontal	Pass
2	2037.000	40.29	-13.31	74.0	33.71	Peak	236.00	150	Horizontal	Pass
2**	2037.000	30.31	-13.31	54.0	23.69	AV	236.00	150	Horizontal	Pass
3	3418.500	49.12	-5.08	74.0	24.88	Peak	329.00	150	Horizontal	Pass
3**	3418.500	38.20	-5.08	54.0	15.80	AV	329.00	150	Horizontal	Pass
4	5579.000	107.22	-2.87	74.0	-33.22	Peak	173.00	150	Horizontal	N/A
4**	5579.000	99.68	-2.87	54.0	-45.68	AV	173.00	150	Horizontal	N/A
5	9656.800	47.69	-3.16	74.0	26.31	Peak	168.00	150	Horizontal	Pass
5**	9656.800	37.24	-3.16	54.0	16.76	AV	168.00	150	Horizontal	Pass
6	16686.713	49.68	-0.90	74.0	24.32	Peak	144.00	150	Horizontal	Pass
6**	16686.713	38.95	-0.90	54.0	15.05	AV	144.00	150	Horizontal	Pass

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

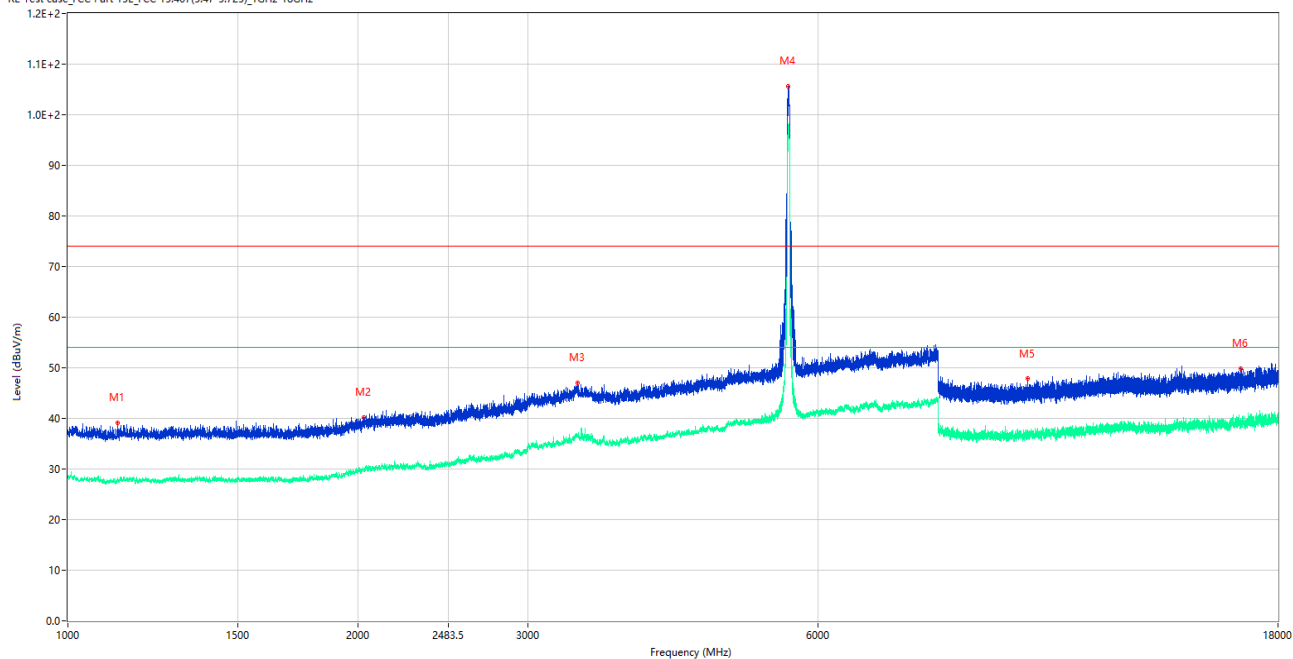
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.250	38.96	-15.72	74.0	35.04	Peak	194.00	150	Vertical	Pass
1**	1197.250	27.86	-15.72	54.0	26.14	AV	194.00	150	Vertical	Pass
2	2082.000	41.03	-13.80	74.0	32.97	Peak	289.00	150	Vertical	Pass
2**	2082.000	29.94	-13.80	54.0	24.06	AV	289.00	150	Vertical	Pass
3	3433.500	47.79	-5.15	74.0	26.21	Peak	360.00	150	Vertical	Pass
3**	3433.500	37.28	-5.15	54.0	16.72	AV	360.00	150	Vertical	Pass
4	5582.500	104.21	-2.84	74.0	-30.21	Peak	192.00	150	Vertical	N/A
4**	5582.500	96.52	-2.84	54.0	-42.52	AV	192.00	150	Vertical	N/A
5	9804.763	47.33	-3.66	74.0	26.67	Peak	52.00	150	Vertical	Pass
5**	9804.763	36.98	-3.66	54.0	17.02	AV	52.00	150	Vertical	Pass
6	16298.738	50.55	-1.49	74.0	23.45	Peak	313.00	150	Vertical	Pass
6**	16298.738	39.20	-1.49	54.0	14.80	AV	313.00	150	Vertical	Pass

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

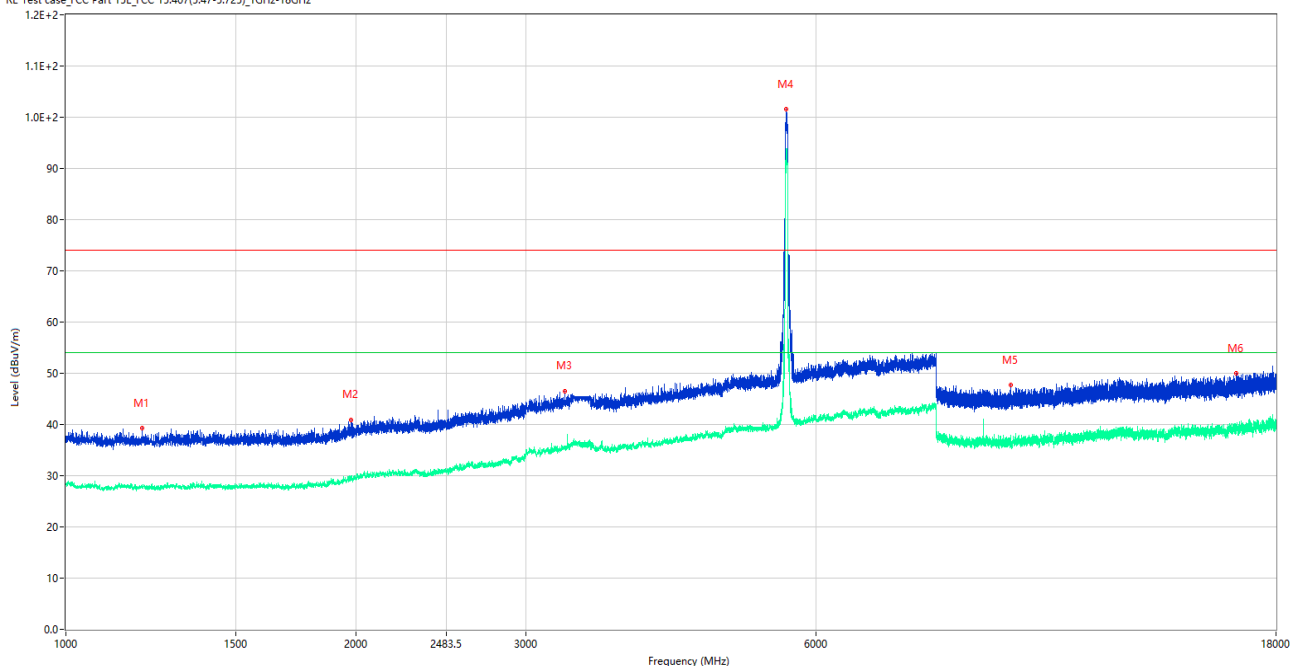
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1126.250	39.14	-15.62	74.0	34.86	Peak	0.00	150	Horizontal	Pass
1**	1126.250	27.59	-15.62	54.0	26.41	AV	0.00	150	Horizontal	Pass
2	2027.250	40.25	-13.82	74.0	33.75	Peak	69.00	150	Horizontal	Pass
2**	2027.250	29.62	-13.82	54.0	24.38	AV	69.00	150	Horizontal	Pass
3	3378.500	47.09	-5.02	74.0	26.91	Peak	219.00	150	Horizontal	Pass
3**	3378.500	36.37	-5.02	54.0	17.63	AV	219.00	150	Horizontal	Pass
4	5591.500	105.63	-2.79	74.0	-31.63	Peak	170.00	150	Horizontal	N/A
4**	5591.500	97.61	-2.79	54.0	-43.61	AV	170.00	150	Horizontal	N/A
5	9893.349	47.84	-4.28	74.0	26.16	Peak	313.00	150	Horizontal	Pass
5**	9893.349	36.93	-4.28	54.0	17.07	AV	313.00	150	Horizontal	Pass
6	16480.650	49.84	-2.21	74.0	24.16	Peak	108.00	150	Horizontal	Pass
6**	16480.650	38.43	-2.21	54.0	15.57	AV	108.00	150	Horizontal	Pass

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

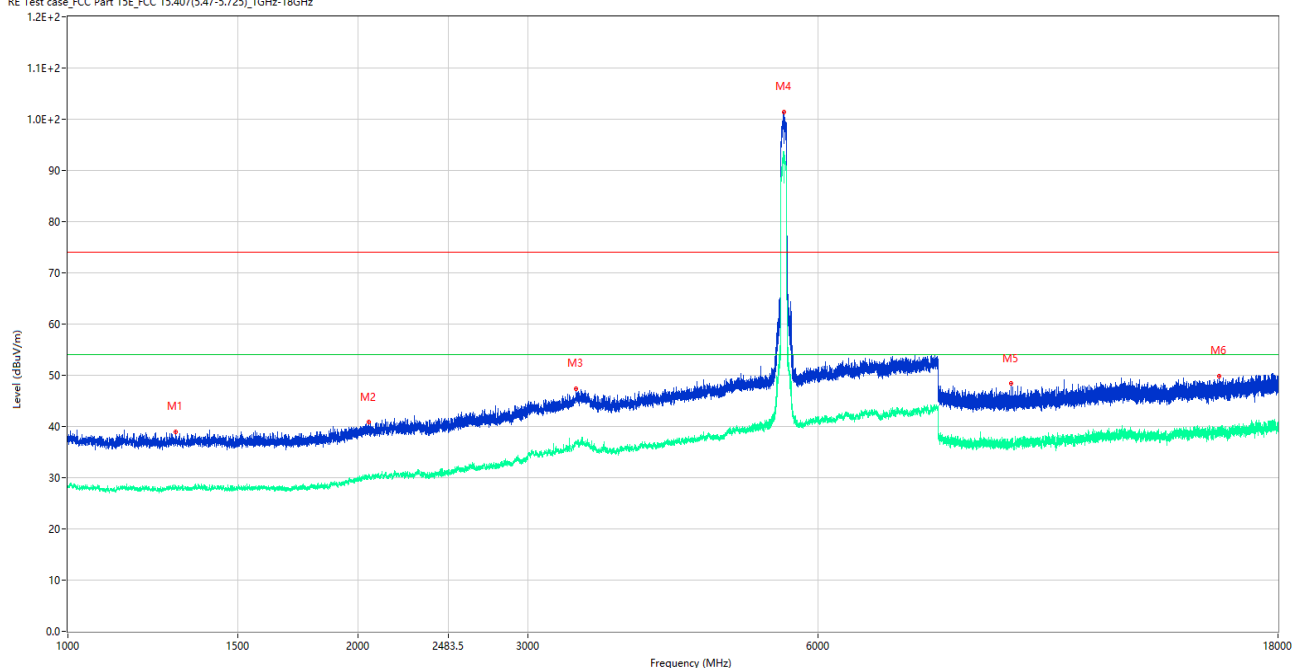
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.250	39.28	-15.74	74.0	34.72	Peak	294.00	150	Vertical	Pass
1**	1200.250	27.76	-15.74	54.0	26.24	AV	294.00	150	Vertical	Pass
2	1976.750	40.88	-14.80	74.0	33.12	Peak	163.00	150	Vertical	Pass
2**	1976.750	29.38	-14.80	54.0	24.62	AV	163.00	150	Vertical	Pass
3	3290.500	46.50	-6.78	74.0	27.50	Peak	252.00	150	Vertical	Pass
3**	3290.500	35.33	-6.78	54.0	18.67	AV	252.00	150	Vertical	Pass
4	5591.500	101.56	-2.79	74.0	-27.56	Peak	192.00	150	Vertical	N/A
4**	5591.500	92.11	-2.79	54.0	-38.11	AV	192.00	150	Vertical	N/A
5	9551.350	47.76	-2.51	74.0	26.24	Peak	0.00	150	Vertical	Pass
5**	9551.350	36.95	-2.51	54.0	17.05	AV	0.00	150	Vertical	Pass
6	16353.863	49.99	-1.34	74.0	24.01	Peak	76.00	150	Vertical	Pass
6**	16353.863	38.95	-1.34	54.0	15.05	AV	76.00	150	Vertical	Pass

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

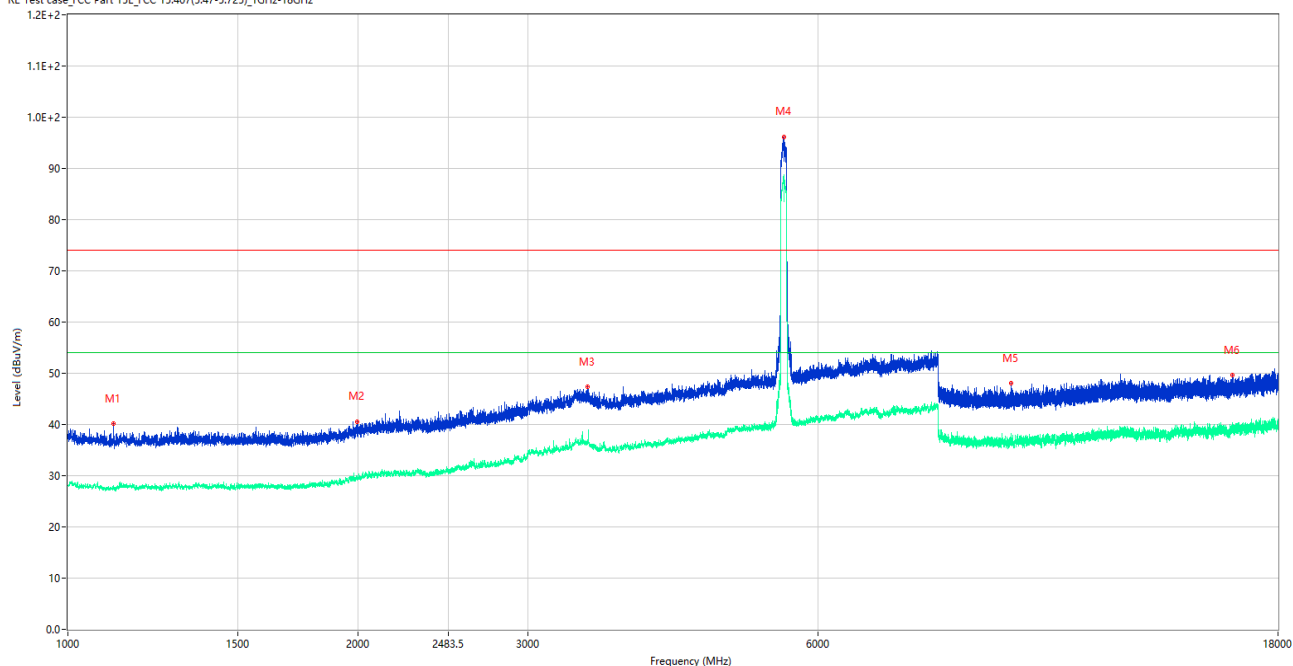
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1293.000	39.00	-15.77	74.0	35.00	Peak	191.00	150	Horizontal	Pass
1**	1293.000	28.25	-15.77	54.0	25.75	AV	191.00	150	Horizontal	Pass
2	2051.000	40.81	-13.72	74.0	33.19	Peak	106.00	150	Horizontal	Pass
2**	2051.000	30.20	-13.72	54.0	23.80	AV	106.00	150	Horizontal	Pass
3	3368.500	47.40	-4.93	74.0	26.60	Peak	51.00	150	Horizontal	Pass
3**	3368.500	36.72	-4.93	54.0	17.28	AV	51.00	150	Horizontal	Pass
4	5526.500	101.41	-2.44	74.0	-27.41	Peak	169.00	150	Horizontal	N/A
4**	5526.500	92.66	-2.44	54.0	-38.66	AV	169.00	150	Horizontal	N/A
5	9518.099	48.34	-2.86	74.0	25.66	Peak	360.00	150	Horizontal	Pass
5**	9518.099	36.60	-2.86	54.0	17.40	AV	360.00	150	Horizontal	Pass
6	15645.901	49.90	-1.75	74.0	24.10	Peak	320.00	150	Horizontal	Pass
6**	15645.901	39.11	-1.75	54.0	14.89	AV	320.00	150	Horizontal	Pass

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

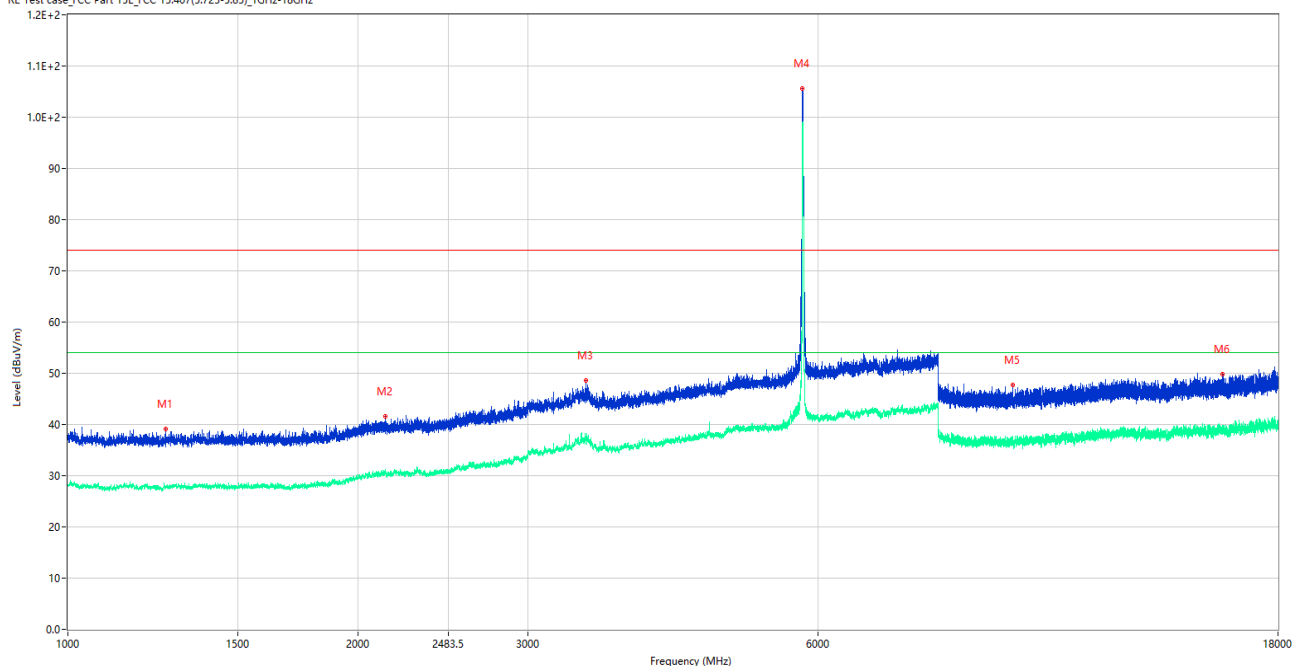
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1115.250	40.13	-15.78	74.0	33.87	Peak	358.00	150	Vertical	Pass
1**	1115.250	27.77	-15.78	54.0	26.23	AV	358.00	150	Vertical	Pass
2	1994.250	40.60	-14.59	74.0	33.40	Peak	10.00	150	Vertical	Pass
2**	1994.250	29.57	-14.59	54.0	24.43	AV	10.00	150	Vertical	Pass
3	3457.000	47.31	-4.91	74.0	26.69	Peak	351.00	150	Vertical	Pass
3**	3457.000	36.31	-4.91	54.0	17.69	AV	351.00	150	Vertical	Pass
4	5527.000	96.19	-2.44	74.0	-22.19	Peak	192.00	150	Vertical	N/A
4**	5527.000	88.83	-2.44	54.0	-34.83	AV	192.00	150	Vertical	N/A
5	9511.213	48.04	-3.14	74.0	25.96	Peak	0.00	150	Vertical	Pass
5**	9511.213	36.65	-3.14	54.0	17.35	AV	0.00	150	Vertical	Pass
6	16129.162	49.60	-1.48	74.0	24.40	Peak	360.00	150	Vertical	Pass
6**	16129.162	39.21	-1.48	54.0	14.79	AV	360.00	150	Vertical	Pass

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

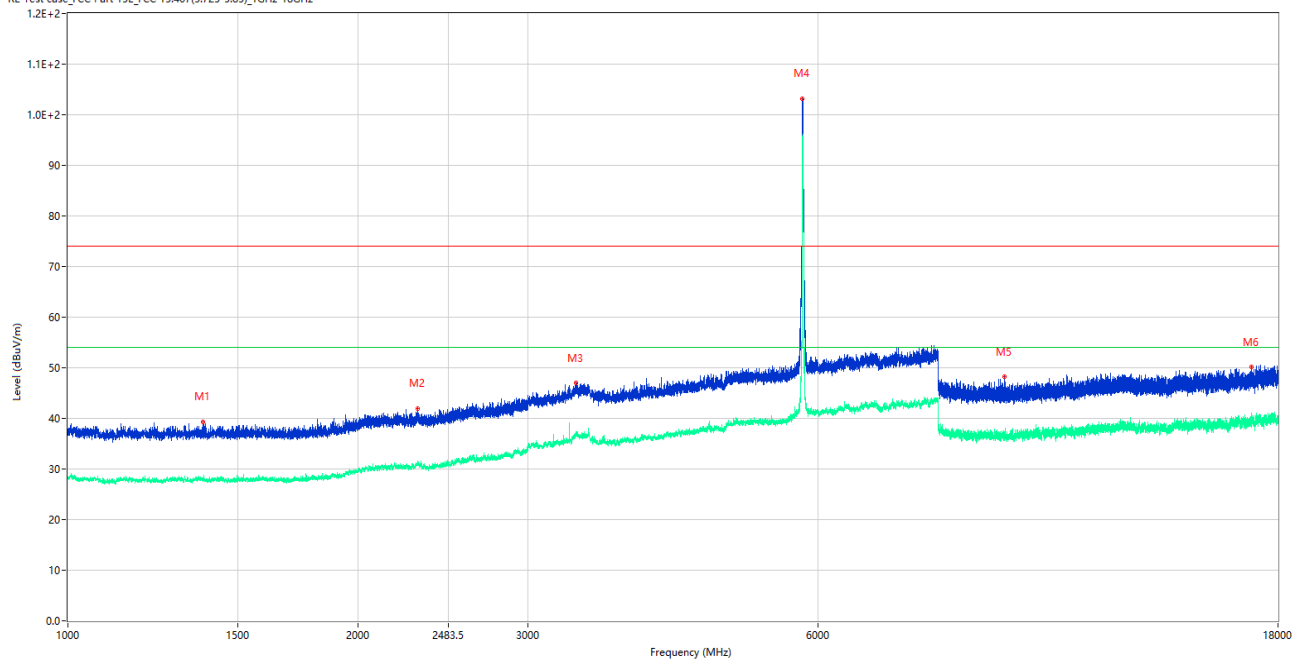
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1263.500	39.07	-15.99	74.0	34.93	Peak	211.00	150	Horizontal	Pass
1**	1263.500	27.92	-15.99	54.0	26.08	AV	211.00	150	Horizontal	Pass
2	2135.750	41.58	-13.51	74.0	32.42	Peak	219.00	150	Horizontal	Pass
2**	2135.750	30.50	-13.51	54.0	23.50	AV	219.00	150	Horizontal	Pass
3	3443.000	48.54	-5.29	74.0	25.46	Peak	248.00	150	Horizontal	Pass
3**	3443.000	37.41	-5.29	54.0	16.59	AV	248.00	150	Horizontal	Pass
4	5782.000	105.55	-1.54	74.0	-31.55	Peak	168.00	150	Horizontal	N/A
4**	5782.000	98.24	-1.54	54.0	-44.24	AV	168.00	150	Horizontal	N/A
5	9551.112	47.64	-2.51	74.0	26.36	Peak	310.00	150	Horizontal	Pass
5**	9551.112	36.90	-2.51	54.0	17.10	AV	310.00	150	Horizontal	Pass
6	15773.213	49.78	-2.01	74.0	24.22	Peak	145.00	150	Horizontal	Pass
6**	15773.213	38.94	-2.01	54.0	15.06	AV	145.00	150	Horizontal	Pass

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

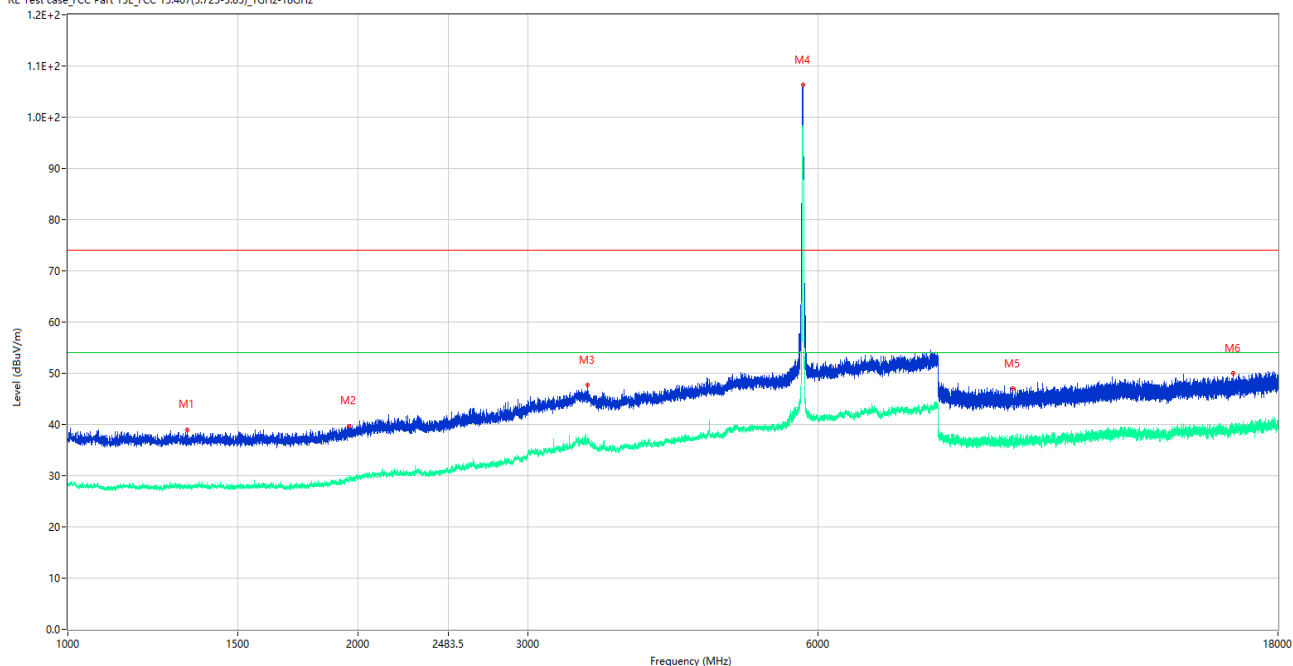
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1379.750	39.33	-16.00	74.0	34.67	Peak	172.00	150	Vertical	Pass
1**	1379.750	27.89	-16.00	54.0	26.11	AV	172.00	150	Vertical	Pass
2	2307.000	42.00	-12.62	74.0	32.00	Peak	8.00	150	Vertical	Pass
2**	2307.000	31.08	-12.62	54.0	22.92	AV	8.00	150	Vertical	Pass
3	3365.500	46.97	-5.13	74.0	27.03	Peak	360.00	150	Vertical	Pass
3**	3365.500	37.01	-5.13	54.0	16.99	AV	360.00	150	Vertical	Pass
4	5782.000	103.16	-1.54	74.0	-29.16	Peak	188.00	150	Vertical	N/A
4**	5782.000	94.77	-1.54	54.0	-40.77	AV	188.00	150	Vertical	N/A
5	9367.525	48.22	-4.96	74.0	25.78	Peak	120.00	150	Vertical	Pass
5**	9367.525	36.87	-4.96	54.0	17.13	AV	120.00	150	Vertical	Pass
6	16890.412	50.12	-0.50	74.0	23.88	Peak	75.00	150	Vertical	Pass
6**	16890.412	40.72	-0.50	54.0	13.28	AV	75.00	150	Vertical	Pass

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

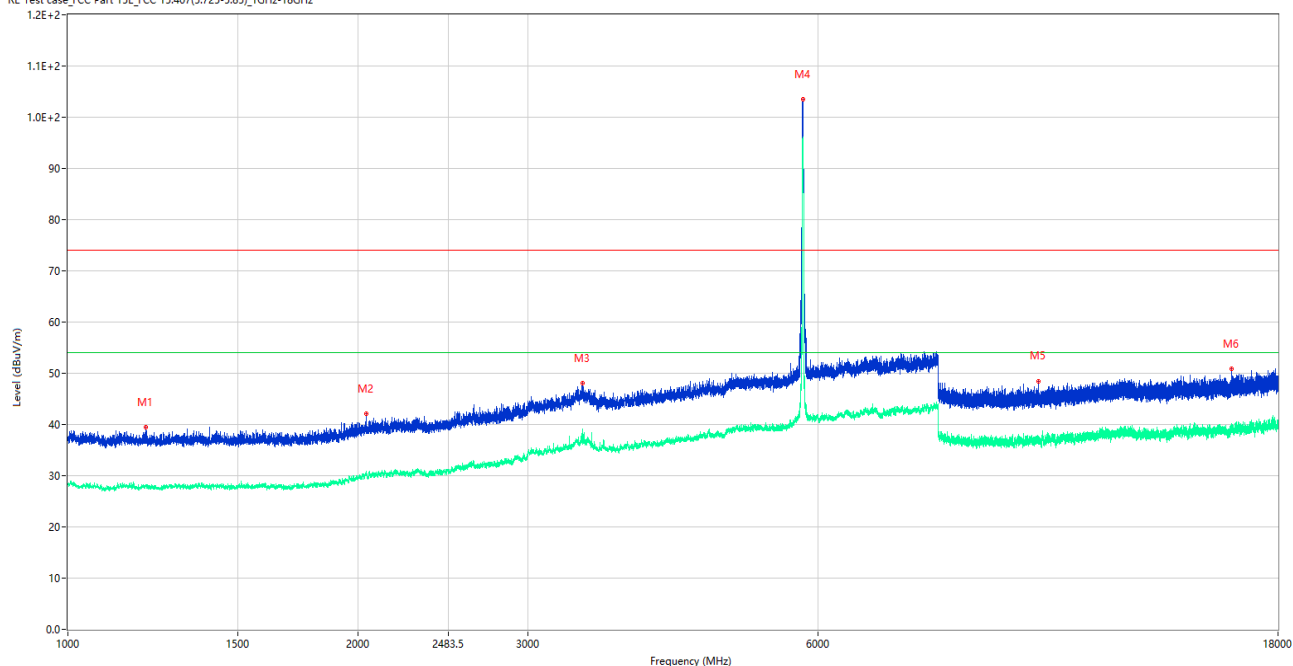
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.500	38.98	-15.96	74.0	35.02	Peak	206.00	150	Horizontal	Pass
1**	1329.500	28.01	-15.96	54.0	25.99	AV	206.00	150	Horizontal	Pass
2	1957.500	39.66	-14.96	74.0	34.34	Peak	360.00	150	Horizontal	Pass
2**	1957.500	29.39	-14.96	54.0	24.61	AV	360.00	150	Horizontal	Pass
3	3460.000	47.66	-4.94	74.0	26.34	Peak	359.00	150	Horizontal	Pass
3**	3460.000	36.86	-4.94	54.0	17.14	AV	359.00	150	Horizontal	Pass
4	5786.500	106.31	-1.53	74.0	-32.31	Peak	172.00	150	Horizontal	N/A
4**	5786.500	98.21	-1.53	54.0	-44.21	AV	172.00	150	Horizontal	N/A
5	9548.500	47.01	-2.54	74.0	26.99	Peak	354.00	150	Horizontal	Pass
5**	9548.500	36.89	-2.54	54.0	17.11	AV	354.00	150	Horizontal	Pass
6	16176.151	49.97	-1.04	74.0	24.03	Peak	285.00	150	Horizontal	Pass
6**	16176.151	39.36	-1.04	54.0	14.64	AV	285.00	150	Horizontal	Pass

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

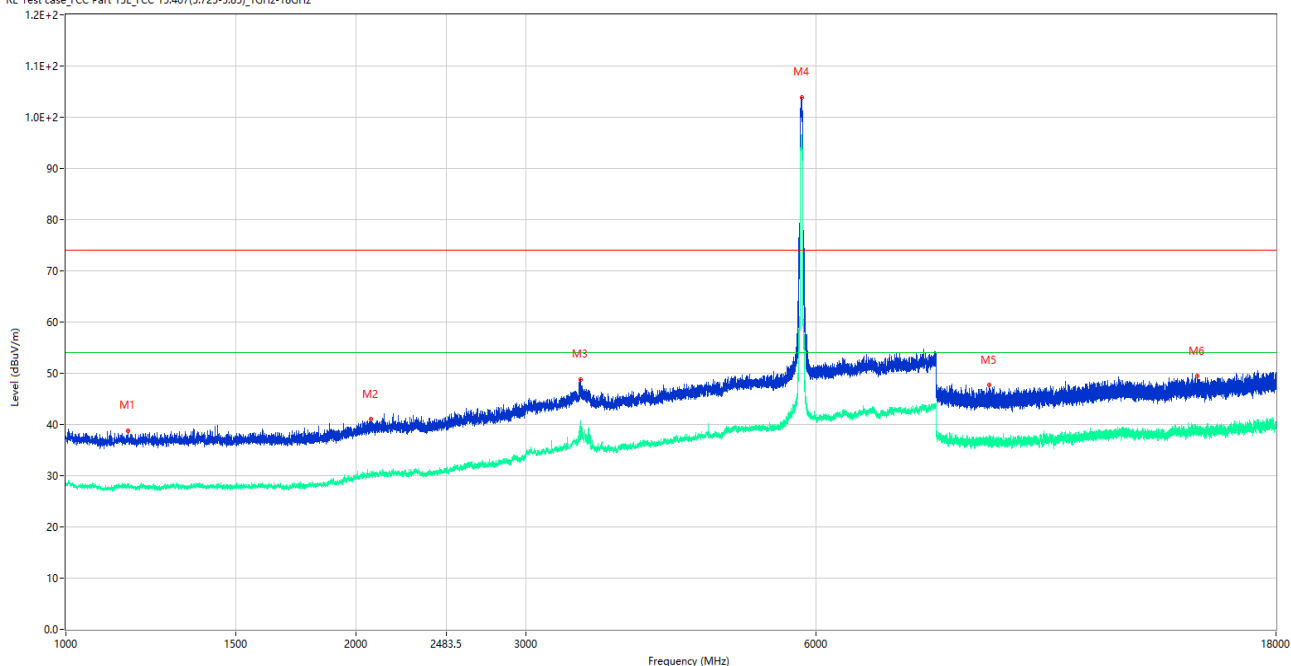
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1204.000	39.41	-15.77	74.0	34.59	Peak	30.00	150	Vertical	Pass
1**	1204.000	27.95	-15.77	54.0	26.05	AV	30.00	150	Vertical	Pass
2	2040.000	42.08	-13.29	74.0	31.92	Peak	310.00	150	Vertical	Pass
2**	2040.000	30.26	-13.29	54.0	23.74	AV	310.00	150	Vertical	Pass
3	3419.500	47.99	-5.04	74.0	26.01	Peak	0.00	150	Vertical	Pass
3**	3419.500	39.20	-5.04	54.0	14.80	AV	0.00	150	Vertical	Pass
4	5784.000	103.43	-1.54	74.0	-29.43	Peak	112.00	150	Vertical	N/A
4**	5784.000	96.20	-1.54	54.0	-42.20	AV	112.00	150	Vertical	N/A
5	10153.888	48.42	-4.28	74.0	25.58	Peak	168.00	150	Vertical	Pass
5**	10153.888	36.56	-4.28	54.0	17.44	AV	168.00	150	Vertical	Pass
6	16108.425	50.84	-1.38	74.0	23.16	Peak	15.00	150	Vertical	Pass
6**	16108.425	39.14	-1.38	54.0	14.86	AV	15.00	150	Vertical	Pass

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

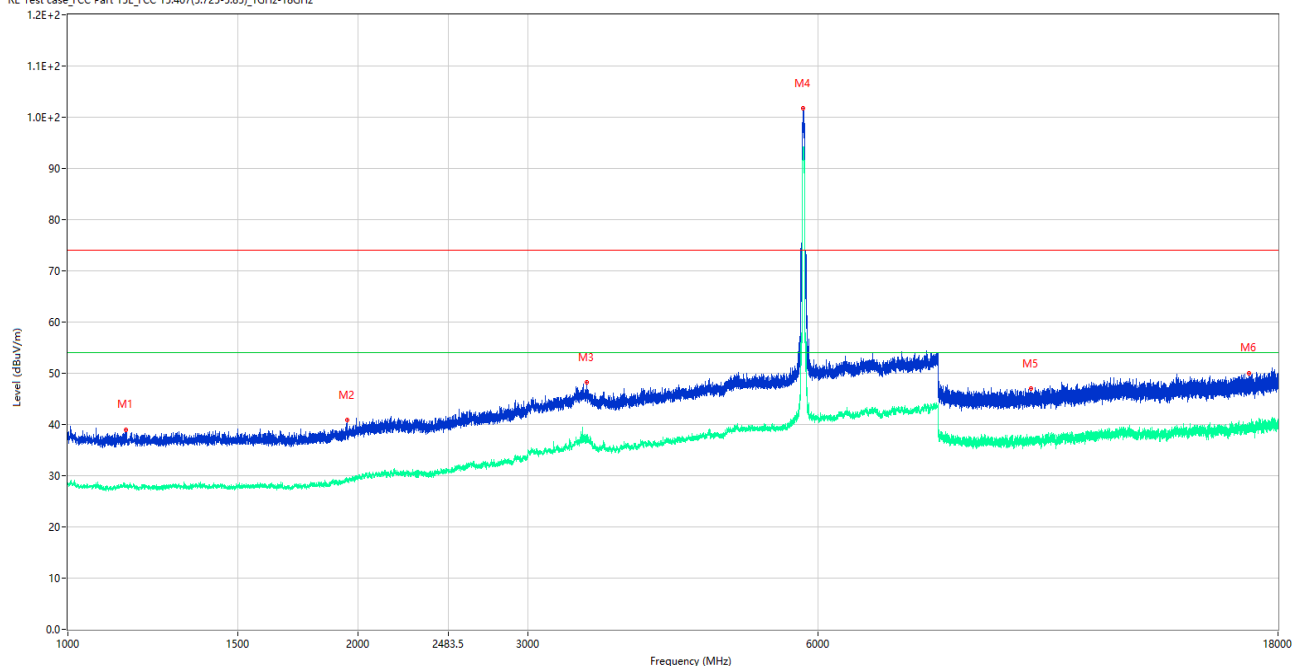
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1159.500	38.84	-15.51	74.0	35.16	Peak	87.00	150	Horizontal	Pass
1**	1159.500	28.37	-15.51	54.0	25.63	AV	87.00	150	Horizontal	Pass
2	2070.500	41.00	-13.75	74.0	33.00	Peak	114.00	150	Horizontal	Pass
2**	2070.500	30.83	-13.75	54.0	23.17	AV	114.00	150	Horizontal	Pass
3	3419.000	48.80	-5.06	74.0	25.20	Peak	1.00	150	Horizontal	Pass
3**	3419.000	38.72	-5.06	54.0	15.28	AV	1.00	150	Horizontal	Pass
4	5797.500	103.88	-1.44	74.0	-29.88	Peak	167.00	150	Horizontal	N/A
4**	5797.500	96.60	-1.44	54.0	-42.60	AV	167.00	150	Horizontal	N/A
5	9073.500	47.68	-4.62	74.0	26.32	Peak	285.00	150	Horizontal	Pass
5**	9073.500	36.65	-4.62	54.0	17.35	AV	285.00	150	Horizontal	Pass
6	14905.125	49.40	-1.74	74.0	24.60	Peak	360.00	150	Horizontal	Pass
6**	14905.125	38.49	-1.74	54.0	15.51	AV	360.00	150	Horizontal	Pass

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

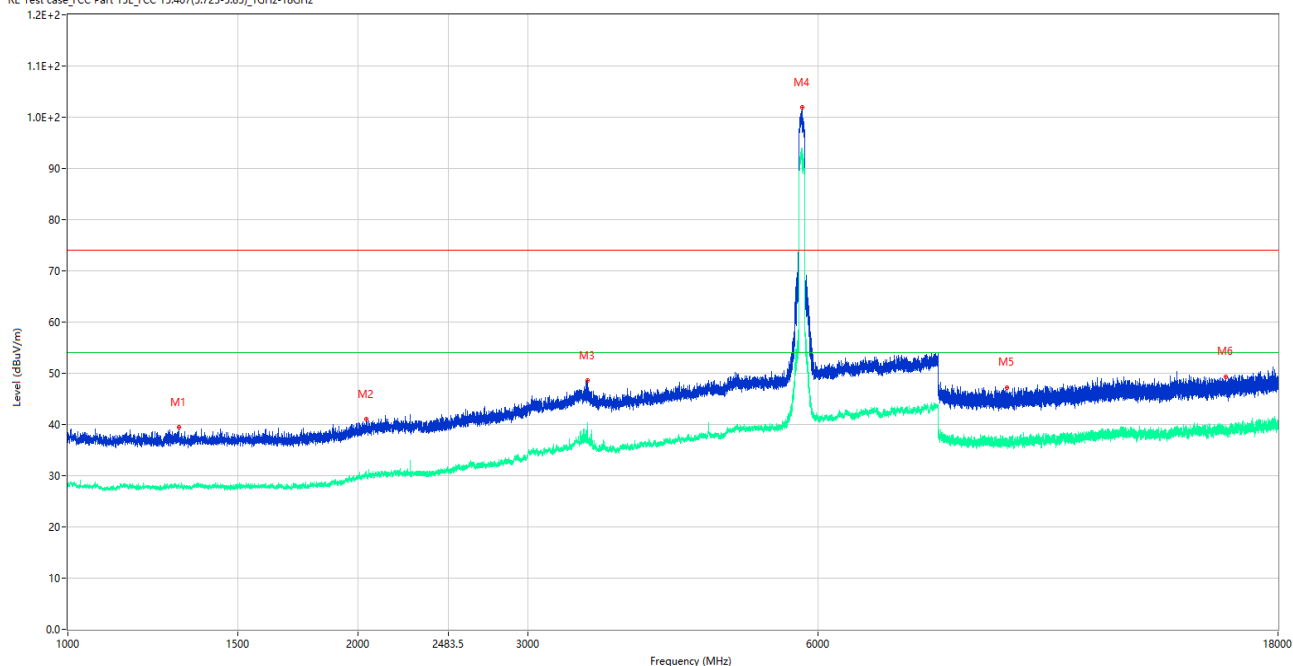
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1149.500	39.03	-15.66	74.0	34.97	Peak	175.00	150	Vertical	Pass
1**	1149.500	28.07	-15.66	54.0	25.93	AV	175.00	150	Vertical	Pass
2	1947.750	40.87	-14.86	74.0	33.13	Peak	16.00	150	Vertical	Pass
2**	1947.750	29.17	-14.86	54.0	24.83	AV	16.00	150	Vertical	Pass
3	3454.500	48.18	-4.92	74.0	25.82	Peak	339.00	150	Vertical	Pass
3**	3454.500	37.32	-4.92	54.0	16.68	AV	339.00	150	Vertical	Pass
4	5793.000	101.73	-1.52	74.0	-27.73	Peak	181.00	150	Vertical	N/A
4**	5793.000	94.15	-1.52	54.0	-40.15	AV	181.00	150	Vertical	N/A
5	9973.625	47.05	-3.66	74.0	26.95	Peak	6.00	150	Vertical	Pass
5**	9973.625	37.48	-3.66	54.0	16.52	AV	6.00	150	Vertical	Pass
6	16810.875	50.09	-1.57	74.0	23.91	Peak	111.00	150	Vertical	Pass
6**	16810.875	39.73	-1.57	54.0	14.27	AV	111.00	150	Vertical	Pass

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

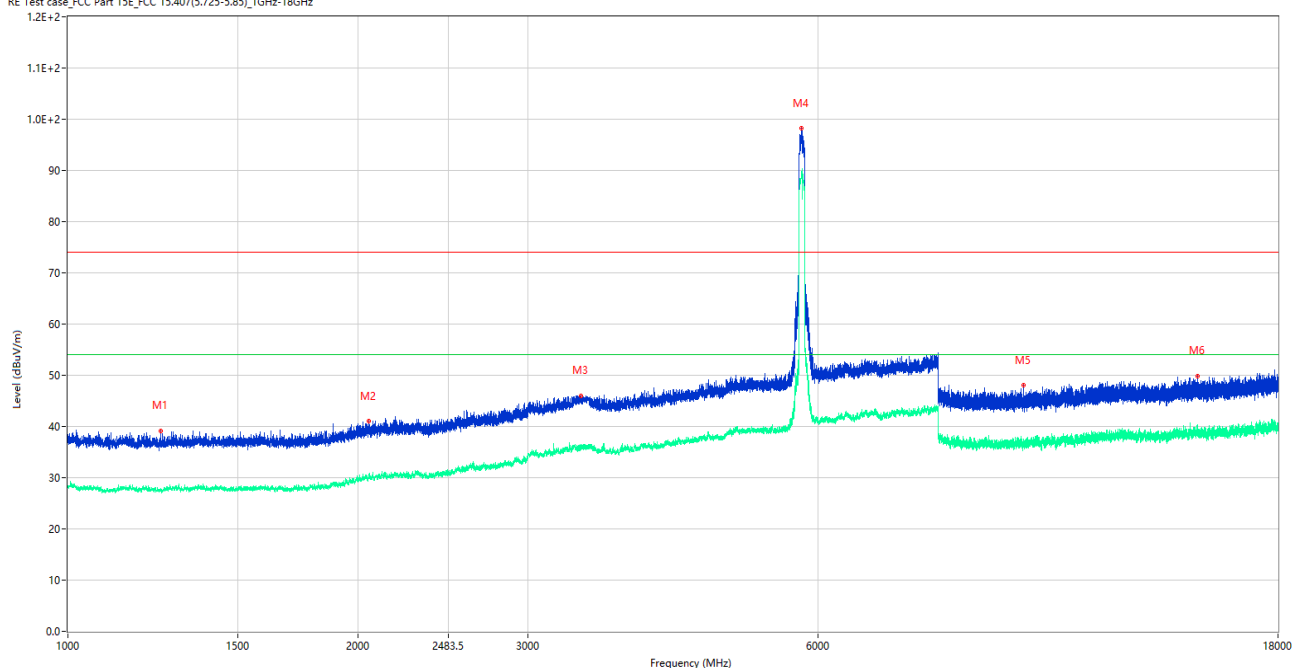
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1302.750	39.47	-15.59	74.0	34.53	Peak	89.00	150	Horizontal	Pass
1**	1302.750	28.36	-15.59	54.0	25.64	AV	89.00	150	Horizontal	Pass
2	2038.750	41.03	-13.27	74.0	32.97	Peak	0.00	150	Horizontal	Pass
2**	2038.750	30.11	-13.27	54.0	23.89	AV	0.00	150	Horizontal	Pass
3	3457.500	48.57	-4.92	74.0	25.43	Peak	142.00	150	Horizontal	Pass
3**	3457.500	40.28	-4.92	54.0	13.72	AV	142.00	150	Horizontal	Pass
4	5777.500	101.89	-1.52	74.0	-27.89	Peak	161.00	150	Horizontal	N/A
4**	5777.500	93.97	-1.52	54.0	-39.97	AV	161.00	150	Horizontal	N/A
5	9426.900	47.16	-4.19	74.0	26.84	Peak	0.00	150	Horizontal	Pass
5**	9426.900	36.98	-4.19	54.0	17.02	AV	0.00	150	Horizontal	Pass
6	15887.138	49.38	-1.50	74.0	24.62	Peak	360.00	150	Horizontal	Pass
6**	15887.138	39.63	-1.50	54.0	14.37	AV	360.00	150	Horizontal	Pass

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

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1247.000	39.14	-16.14	74.0	34.86	Peak	119.00	150	Vertical	Pass
1**	1247.000	27.58	-16.14	54.0	26.42	AV	119.00	150	Vertical	Pass
2	2053.500	41.05	-13.74	74.0	32.95	Peak	119.00	150	Vertical	Pass
2**	2053.500	30.10	-13.74	54.0	23.90	AV	119.00	150	Vertical	Pass
3	3409.000	45.95	-5.35	74.0	28.05	Peak	6.00	150	Vertical	Pass
3**	3409.000	37.97	-5.35	54.0	16.03	AV	6.00	150	Vertical	Pass
4	5768.500	98.20	-1.70	74.0	-24.20	Peak	181.00	150	Vertical	N/A
4**	5768.500	88.85	-1.70	54.0	-34.85	AV	181.00	150	Vertical	N/A
5	9801.675	47.98	-3.50	74.0	26.02	Peak	123.00	150	Vertical	Pass
5**	9801.675	37.34	-3.50	54.0	16.66	AV	123.00	150	Vertical	Pass
6	14863.651	49.84	-1.25	74.0	24.16	Peak	278.00	150	Vertical	Pass
6**	14863.651	38.61	-1.25	54.0	15.39	AV	278.00	150	Vertical	Pass

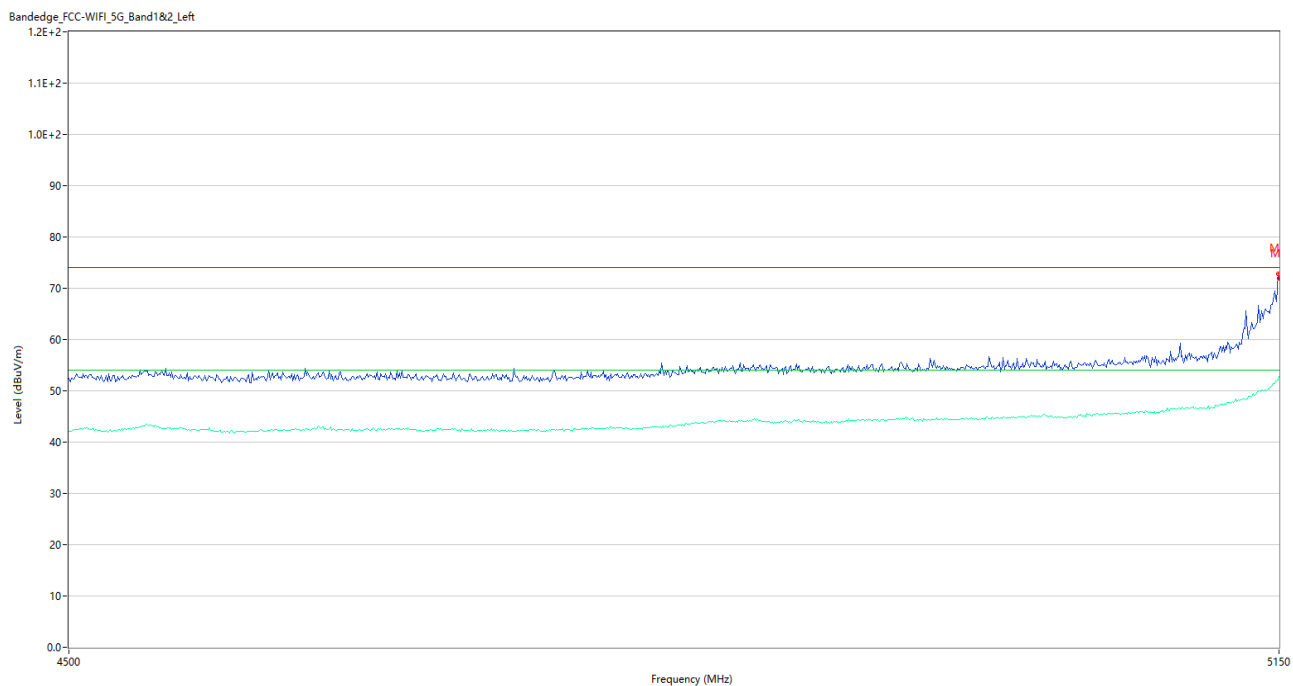
A.6.2 Band Edge (Restricted-band)

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
		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

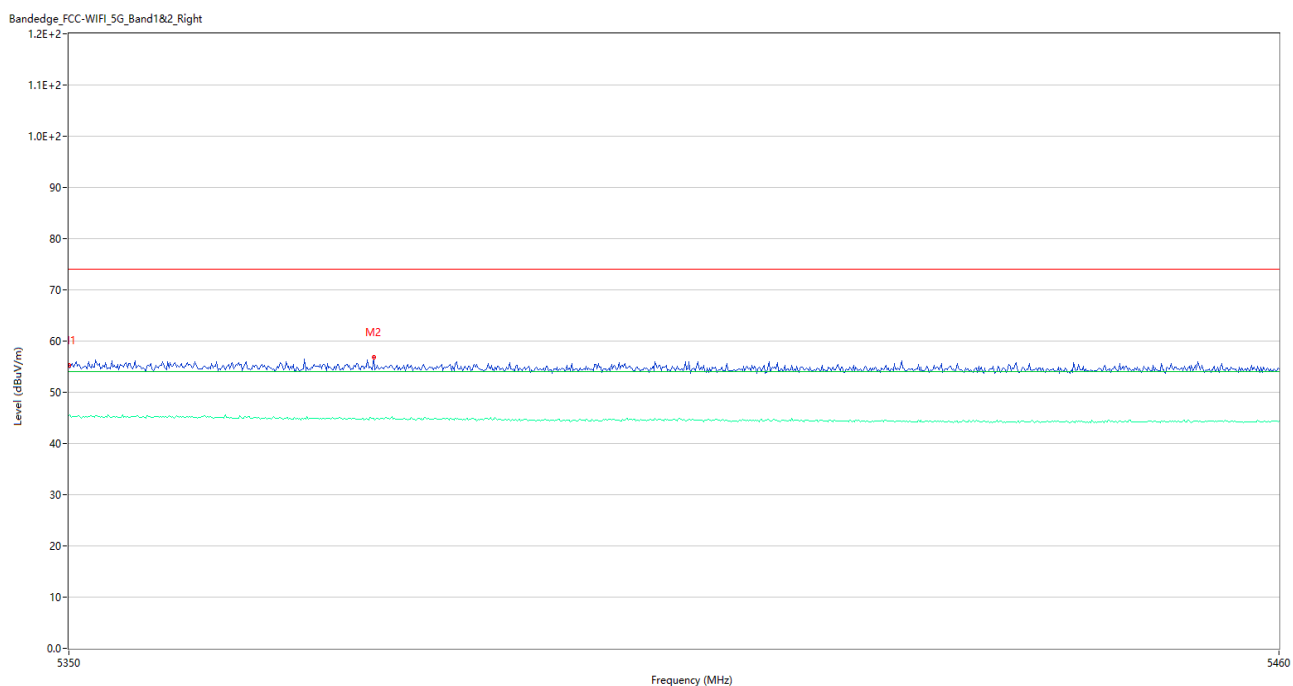
Test Data and Plots

U-NII-1 11a CH36



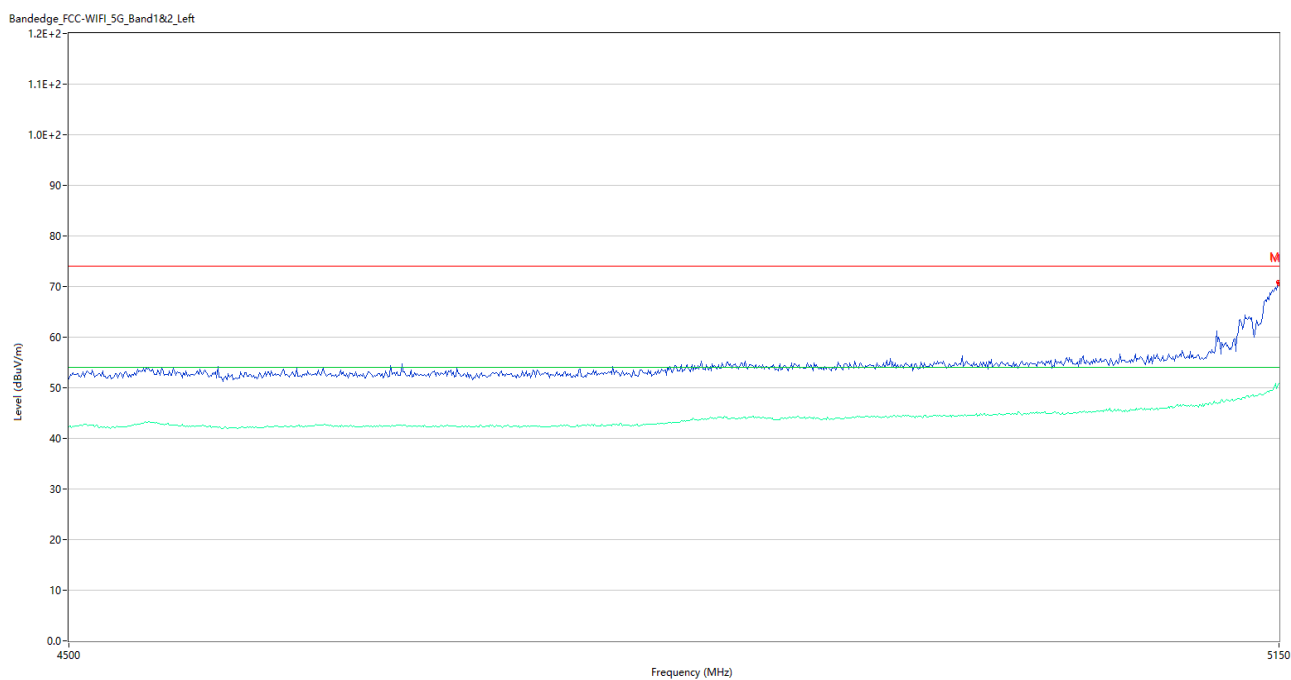
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	71.86	3.82	74.0	2.14	Peak	348.00	150	Horizontal	Pass
1**	5150.000	52.83	3.82	54.0	1.17	AV	348.00	150	Horizontal	Pass
2	5149.350	72.83	3.84	74.0	1.17	Peak	360.00	150	Horizontal	Pass
2**	5149.350	52.15	3.84	54.0	1.85	AV	360.00	150	Horizontal	Pass

U-NII-1 11a CH48



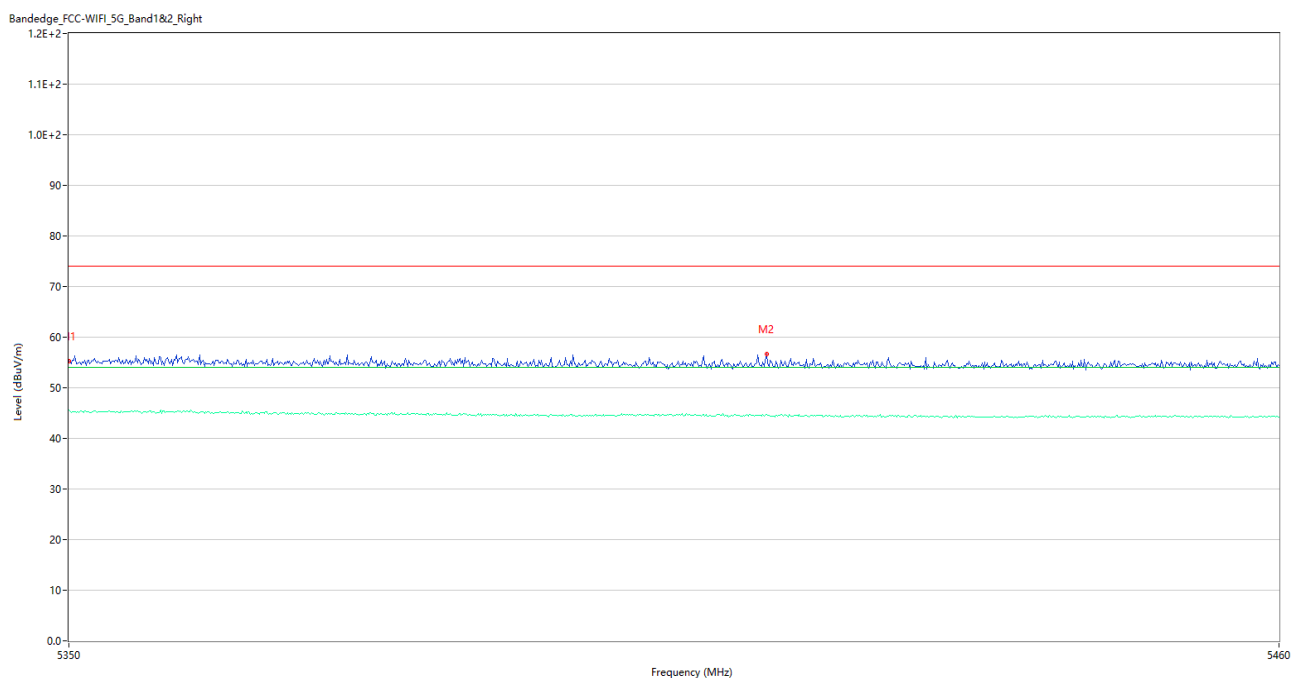
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.22	4.04	74.0	18.78	Peak	0.00	150	Horizontal	Pass
1**	5350.000	45.40	4.04	54.0	8.60	AV	0.00	150	Horizontal	Pass
2	5377.500	56.84	4.04	74.0	17.16	Peak	0.00	150	Horizontal	Pass
2**	5377.500	44.92	4.04	54.0	9.08	AV	0.00	150	Horizontal	Pass

U-NII-1 11n20 CH36



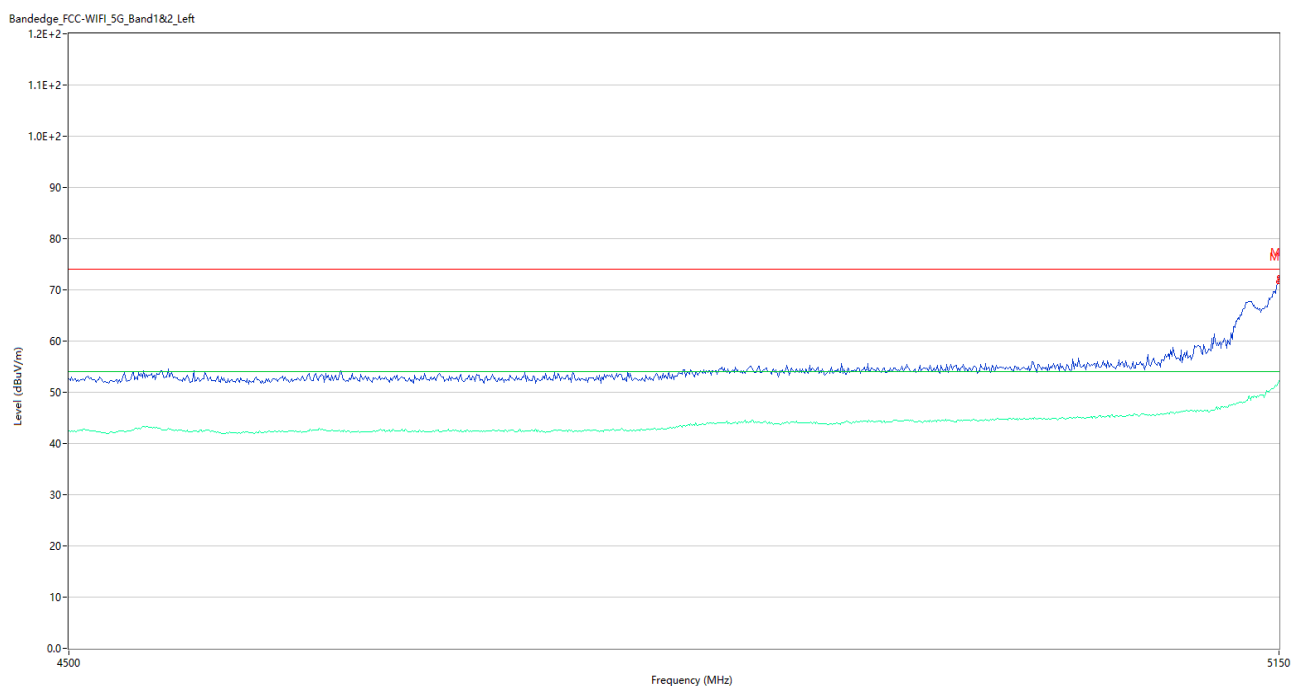
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	70.53	3.82	74.0	3.47	Peak	360.00	150	Horizontal	Pass
1**	5150.000	50.96	3.82	54.0	3.04	AV	360.00	150	Horizontal	Pass
2	5149.350	70.96	3.84	74.0	3.04	Peak	344.00	150	Horizontal	Pass
2**	5149.350	50.73	3.84	54.0	3.27	AV	344.00	150	Horizontal	Pass

U-NII-1 11n20 CH48



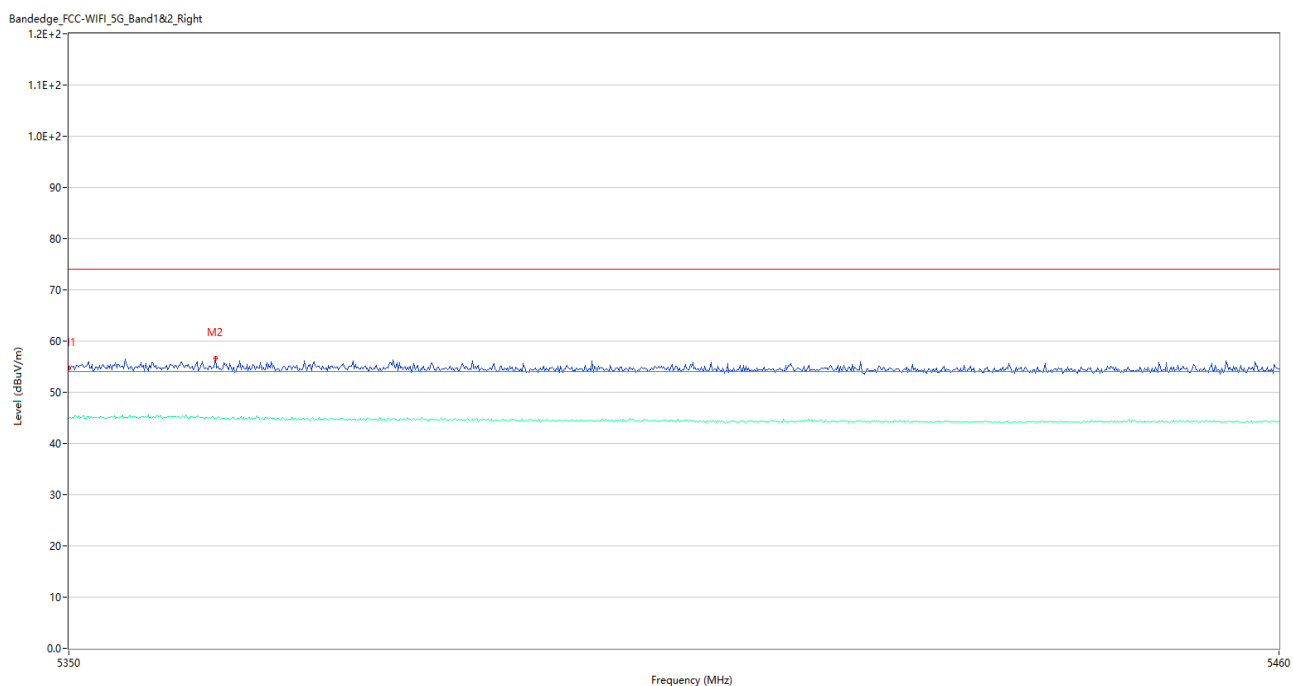
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.18	4.04	74.0	18.82	Peak	186.00	150	Horizontal	Pass
1**	5350.000	45.59	4.04	54.0	8.41	AV	186.00	150	Horizontal	Pass
2	5413.140	56.64	3.69	74.0	17.36	Peak	0.00	150	Horizontal	Pass
2**	5413.140	44.70	3.69	54.0	9.30	AV	0.00	150	Horizontal	Pass

U-NII-1 11n40 CH38



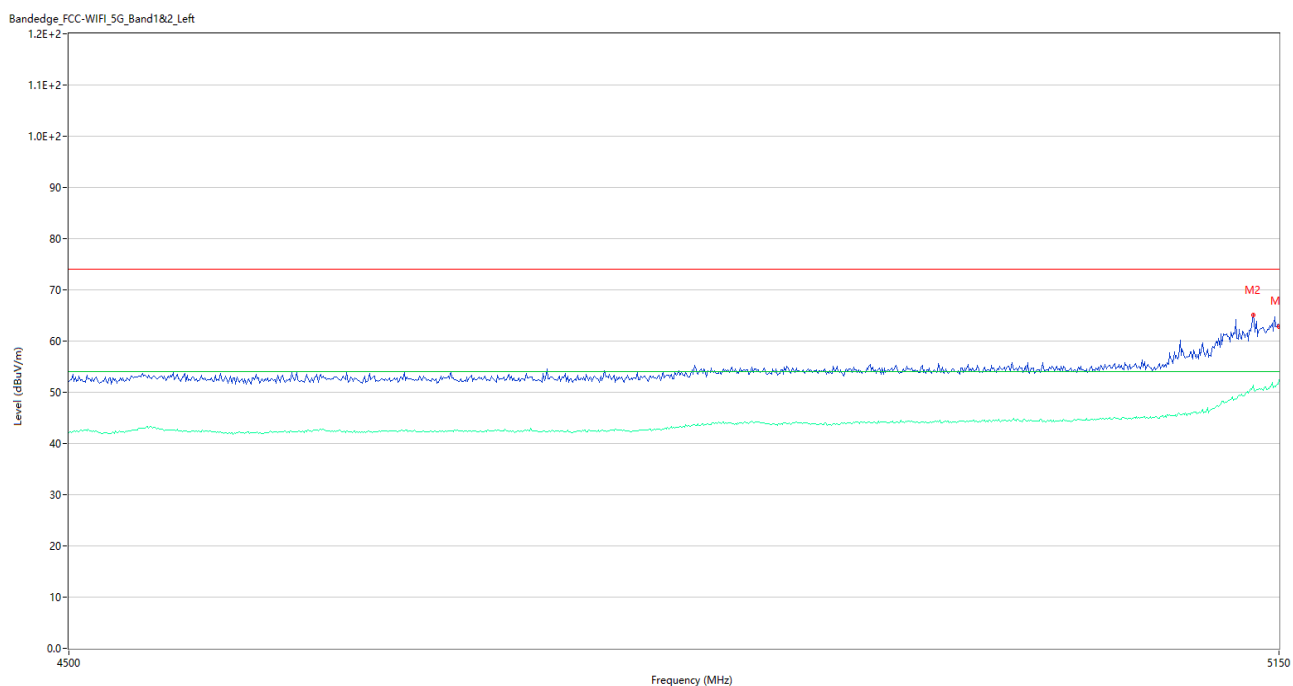
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	72.39	3.82	74.0	1.61	Peak	0.00	150	Horizontal	Pass
1**	5150.000	52.26	3.82	54.0	1.74	AV	0.00	150	Horizontal	Pass
2	5149.350	71.56	3.84	74.0	2.44	Peak	0.00	150	Horizontal	Pass
2**	5149.350	51.79	3.84	54.0	2.21	AV	0.00	150	Horizontal	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	54.79	4.04	74.0	19.21	Peak	334.00	150	Horizontal	Pass
1**	5350.000	44.97	4.04	54.0	9.03	AV	334.00	150	Horizontal	Pass
2	5363.200	56.71	4.14	74.0	17.29	Peak	360.00	150	Horizontal	Pass
2**	5363.200	45.00	4.14	54.0	9.00	AV	360.00	150	Horizontal	Pass

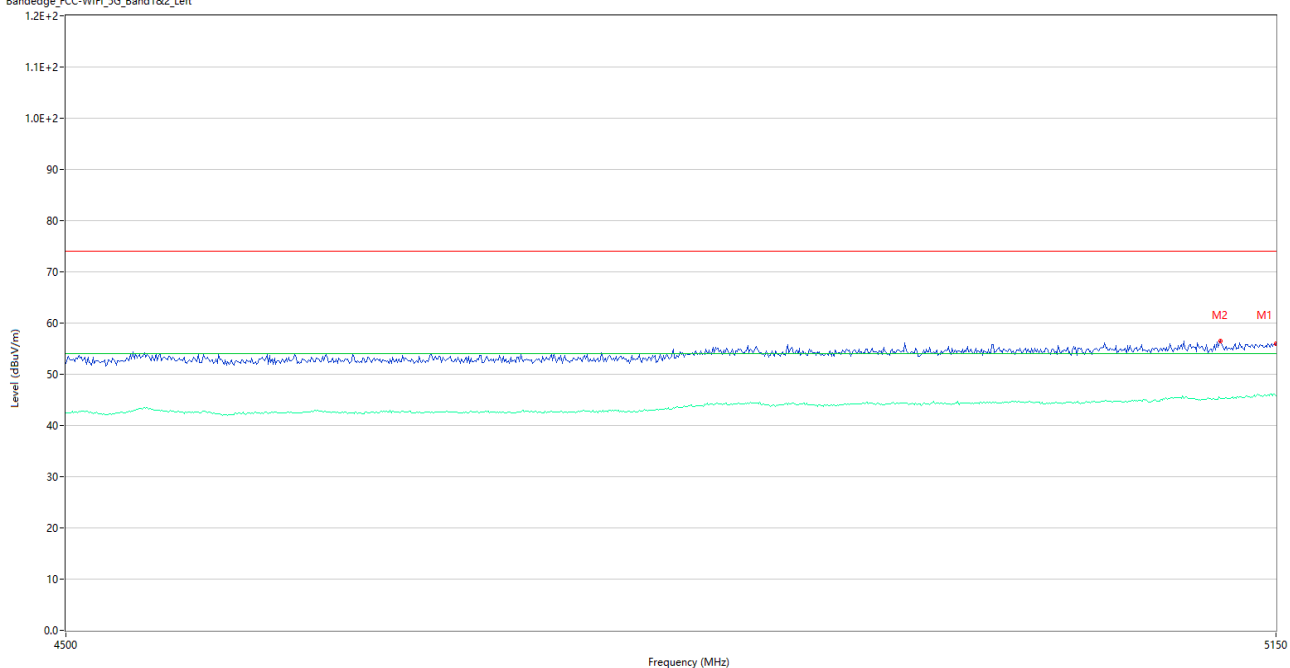
U-NII-1 11ac80 CH42



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	62.88	3.82	74.0	11.12	Peak	347.00	150	Horizontal	Pass
1**	5150.000	52.39	3.82	54.0	1.61	AV	347.00	150	Horizontal	Pass
2	5135.050	65.09	3.97	74.0	8.91	Peak	354.00	150	Horizontal	Pass
2**	5135.050	51.33	3.97	54.0	2.67	AV	354.00	150	Horizontal	Pass

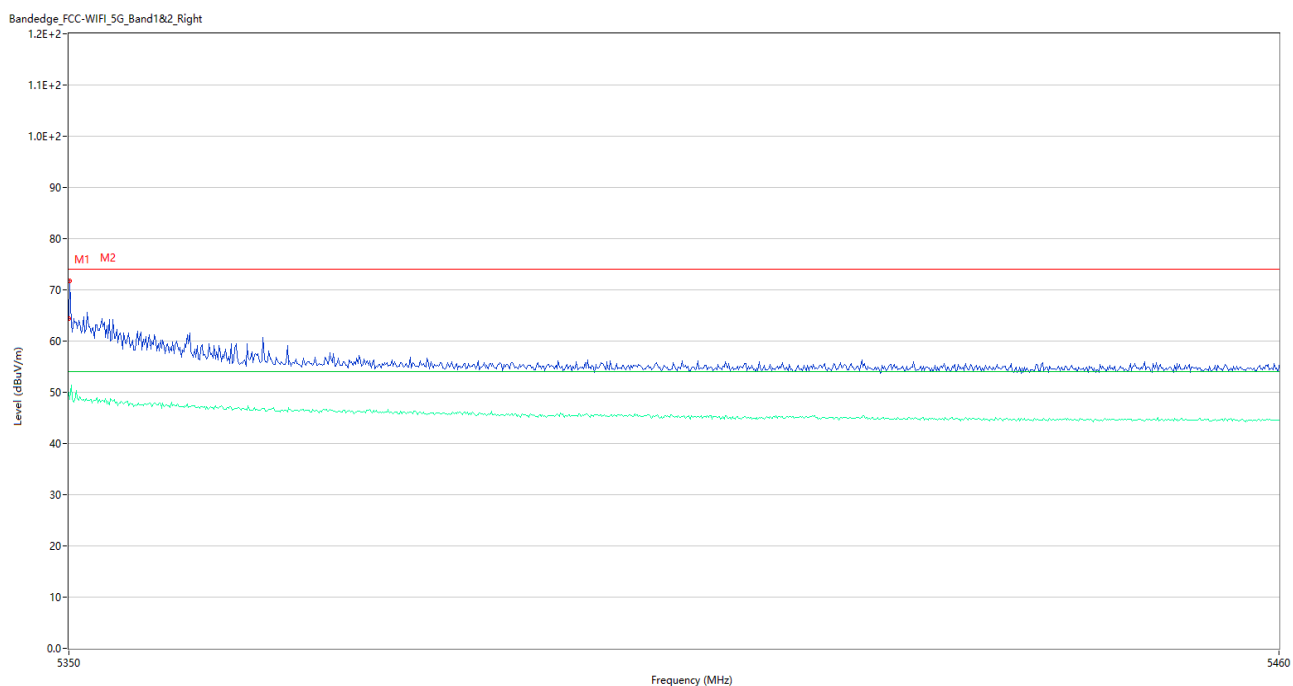
U-NII-2A 11a CH52

Bandedge_FCC-WIFI_5G_Band1&2_Left



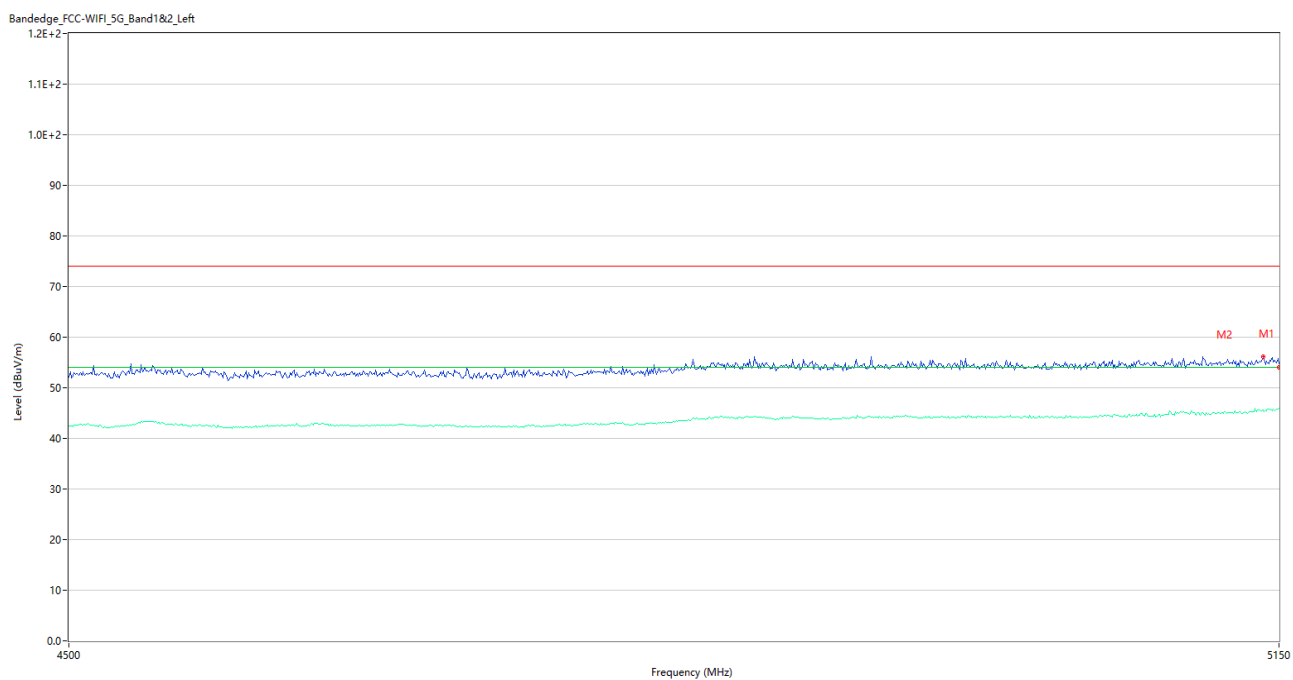
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.94	3.82	74.0	18.06	Peak	0.07	150	Horizontal	Pass
1**	5150.000	45.80	3.82	54.0	8.20	AV	0.07	150	Horizontal	Pass
2	5118.150	56.54	3.70	74.0	17.46	Peak	0.00	150	Horizontal	Pass
2**	5118.150	45.30	3.70	54.0	8.70	AV	0.00	150	Horizontal	Pass

U-NII-2A 11a CH64



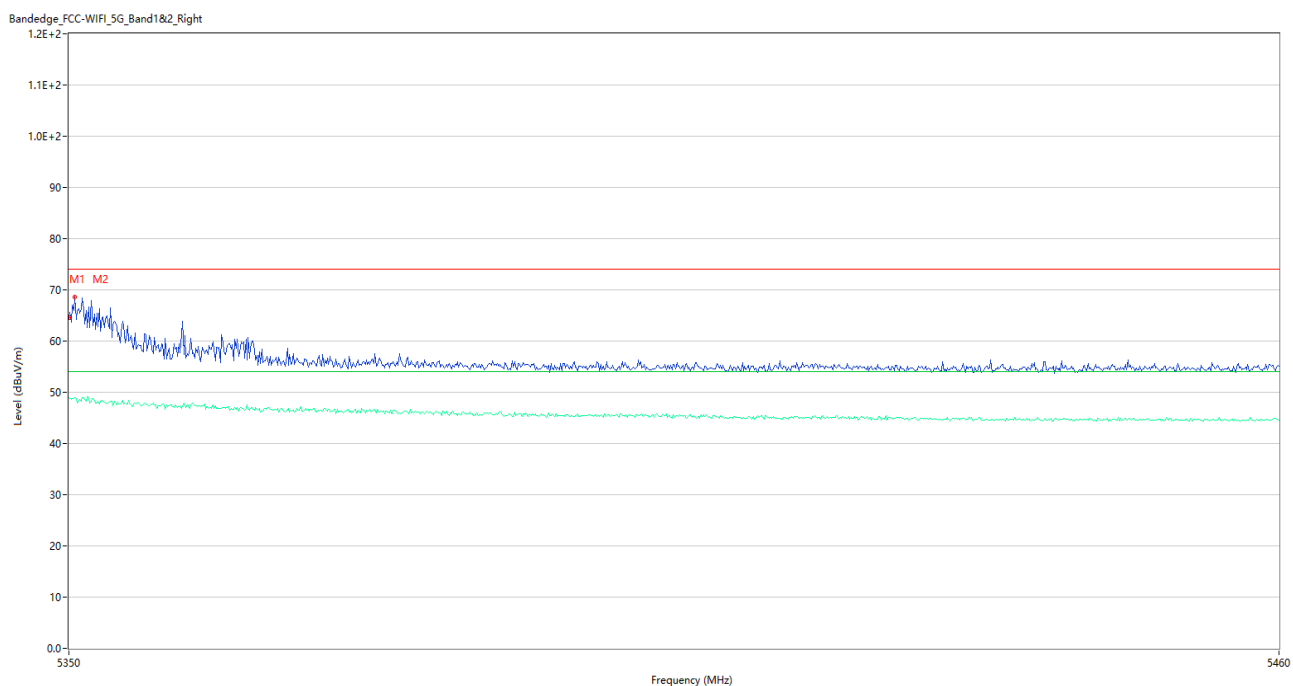
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	64.35	4.04	74.0	9.65	Peak	230.00	150	Horizontal	Pass
1**	5350.000	50.08	4.04	54.0	3.92	AV	230.00	150	Horizontal	Pass
2	5350.110	71.83	4.04	74.0	2.17	Peak	175.00	150	Horizontal	Pass
2**	5350.110	48.55	4.04	54.0	5.45	AV	175.00	150	Horizontal	Pass

U-NII-2A 11n20 CH52



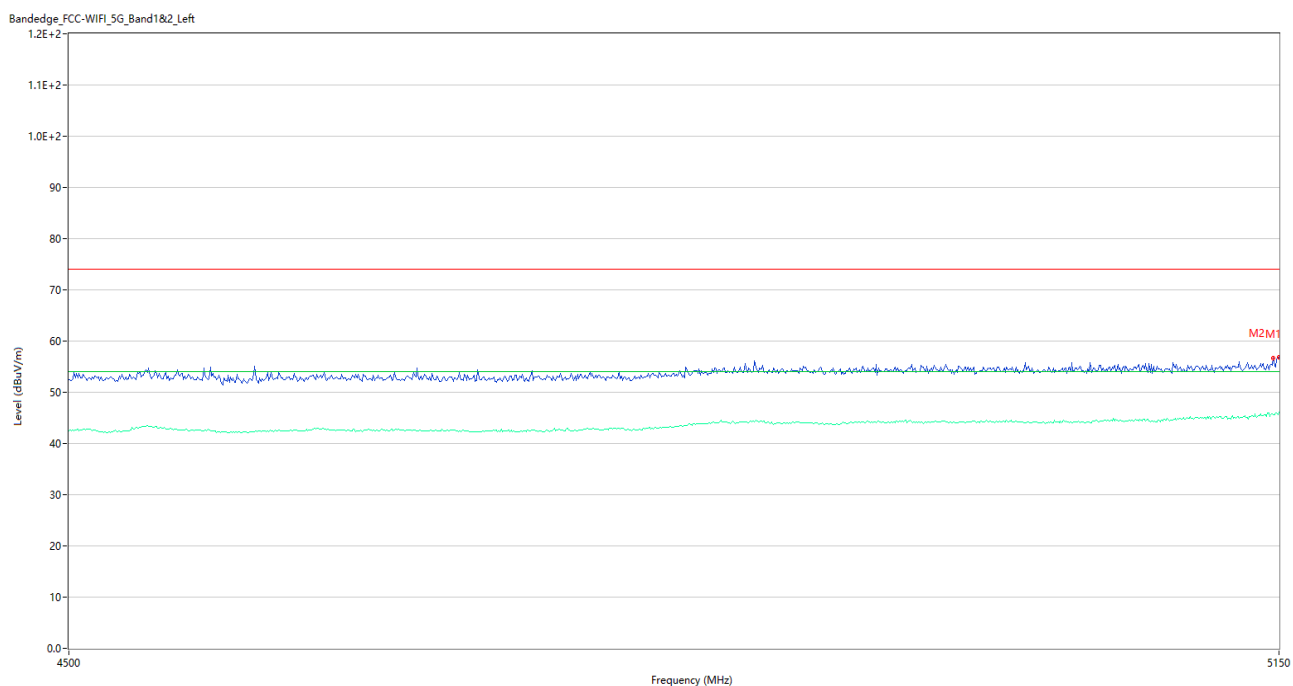
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.69	3.82	74.0	19.31	Peak	177.00	150	Horizontal	Pass
1**	5150.000	45.97	3.82	54.0	8.03	AV	177.00	150	Horizontal	Pass
2	5140.900	56.07	4.07	74.0	17.93	Peak	191.00	150	Horizontal	Pass
2**	5140.900	45.69	4.07	54.0	8.31	AV	191.00	150	Horizontal	Pass

U-NII-2A 11n20 CH64



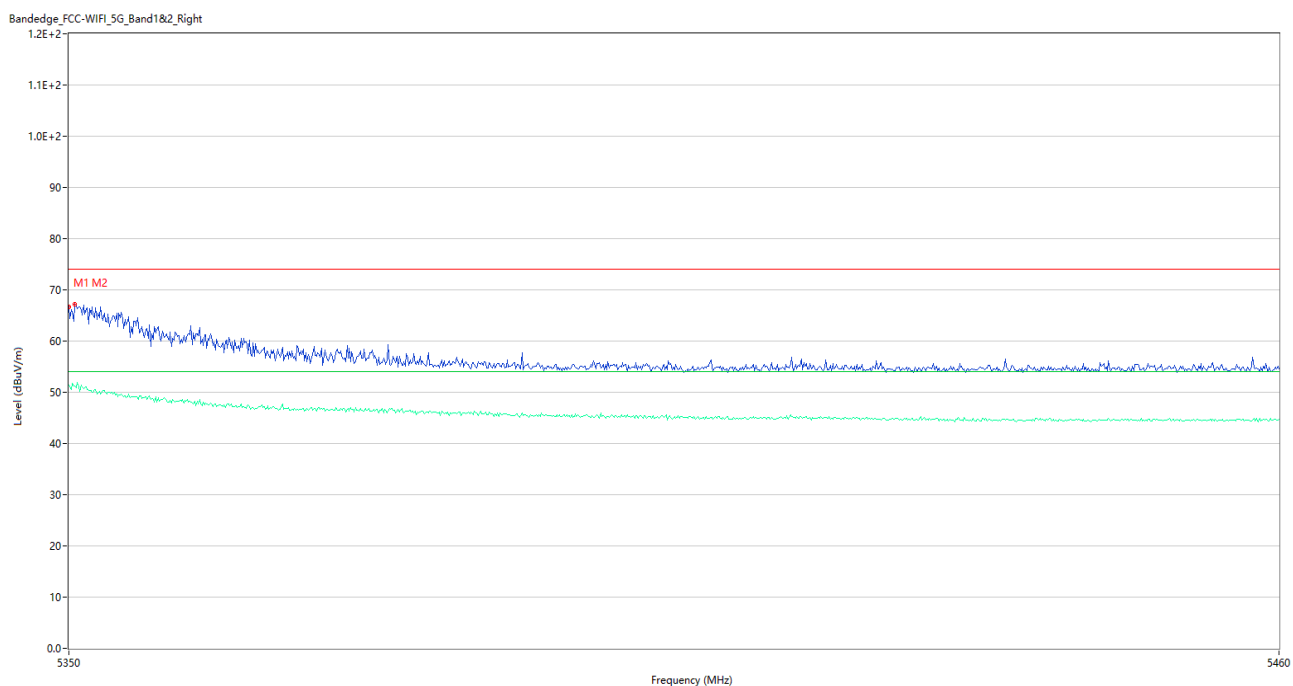
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	64.61	4.04	74.0	9.39	Peak	228.00	150	Horizontal	Pass
1**	5350.000	48.87	4.04	54.0	5.13	AV	228.00	150	Horizontal	Pass
2	5350.550	68.55	4.05	74.0	5.45	Peak	175.00	150	Horizontal	Pass
2**	5350.550	48.89	4.05	54.0	5.11	AV	175.00	150	Horizontal	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	56.90	3.82	74.0	17.10	Peak	170.00	150	Horizontal	Pass
1**	5150.000	46.20	3.82	54.0	7.80	AV	170.00	150	Horizontal	Pass
2	5146.750	56.66	3.91	74.0	17.34	Peak	180.00	150	Horizontal	Pass
2**	5146.750	45.63	3.91	54.0	8.37	AV	180.00	150	Horizontal	Pass

U-NII-2A 11n40 CH62



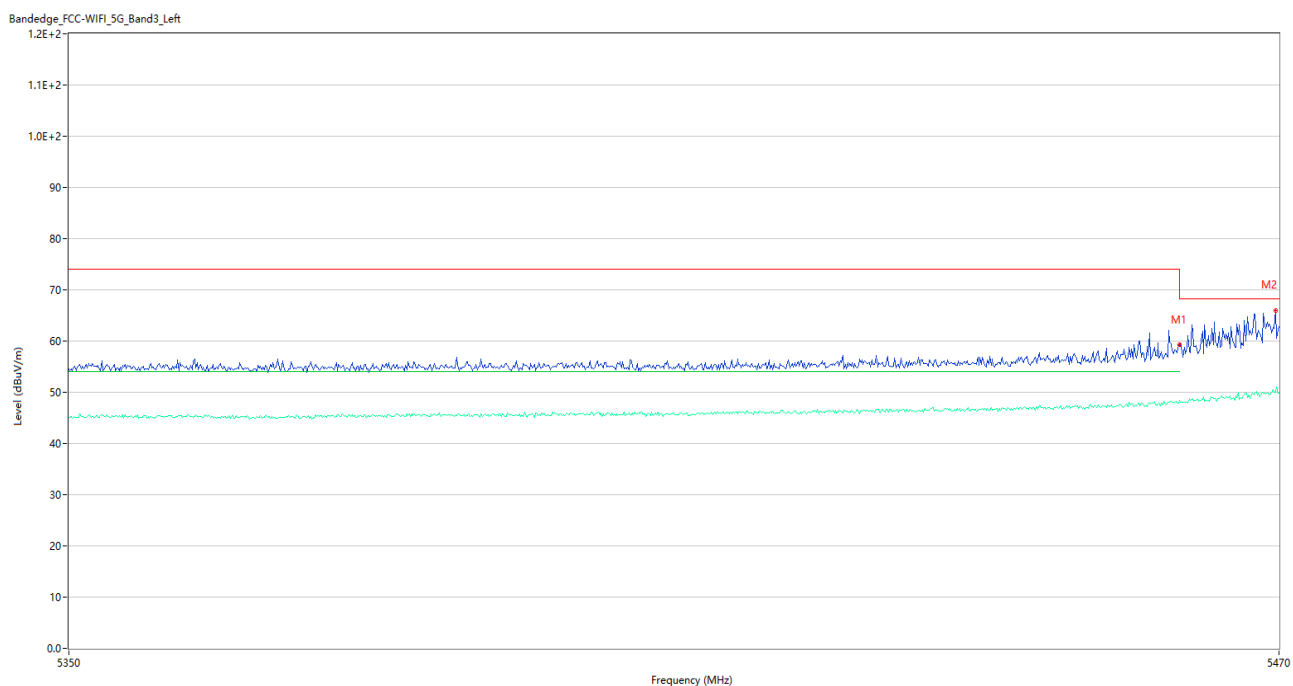
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	66.74	4.04	74.0	7.26	Peak	176.00	150	Horizontal	Pass
1**	5350.000	51.34	4.04	54.0	2.66	AV	176.00	150	Horizontal	Pass
2	5350.550	67.17	4.05	74.0	6.83	Peak	176.00	150	Horizontal	Pass
2**	5350.550	51.17	4.05	54.0	2.83	AV	176.00	150	Horizontal	Pass

U-NII-2A 11ac80 CH58



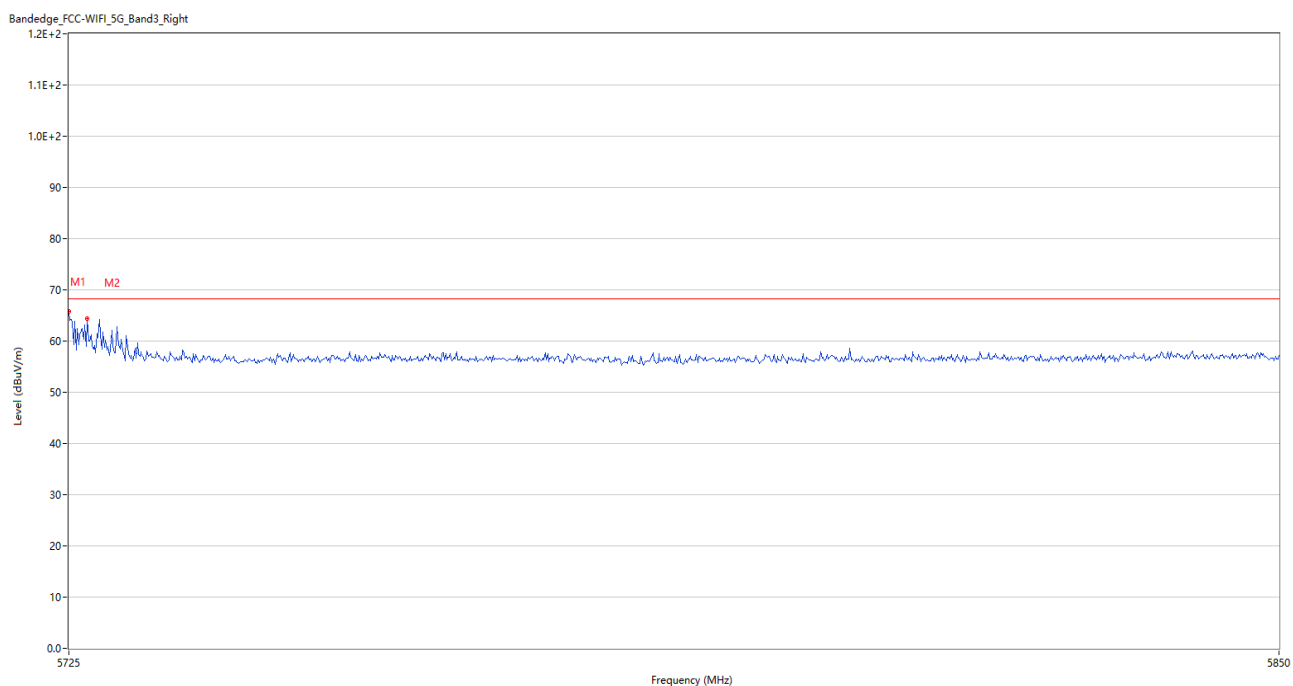
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.81	3.82	74.0	19.19	Peak	186.03	150	Horizontal	Pass
1**	5150.000	45.11	3.82	54.0	8.89	AV	186.03	150	Horizontal	Pass
2	5136.350	56.07	4.00	74.0	17.93	Peak	161.00	150	Horizontal	Pass
2**	5136.350	45.38	4.00	54.0	8.62	AV	161.00	150	Horizontal	Pass

U-NII-2C 11a CH100



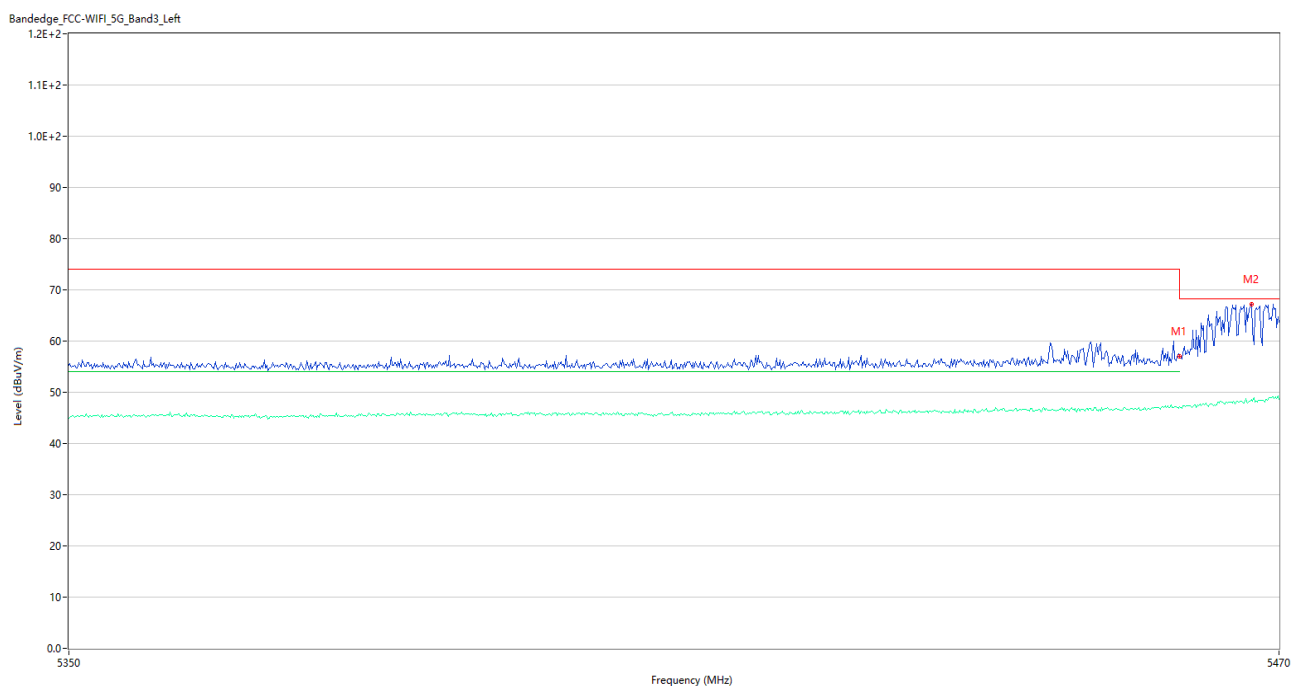
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	59.29	3.78	68.2	8.91	Peak	168.34	150	Horizontal	Pass
1**	5460.000	48.19	3.78	54.0	5.81	AV	168.34	150	Horizontal	Pass
2	5469.640	66.01	4.08	68.2	2.19	Peak	173.00	150	Horizontal	Pass
2**	5469.640	50.05	4.08	--	-50.05	AV	173.00	150	Horizontal	N/A

U-NII-2C 11a CH140



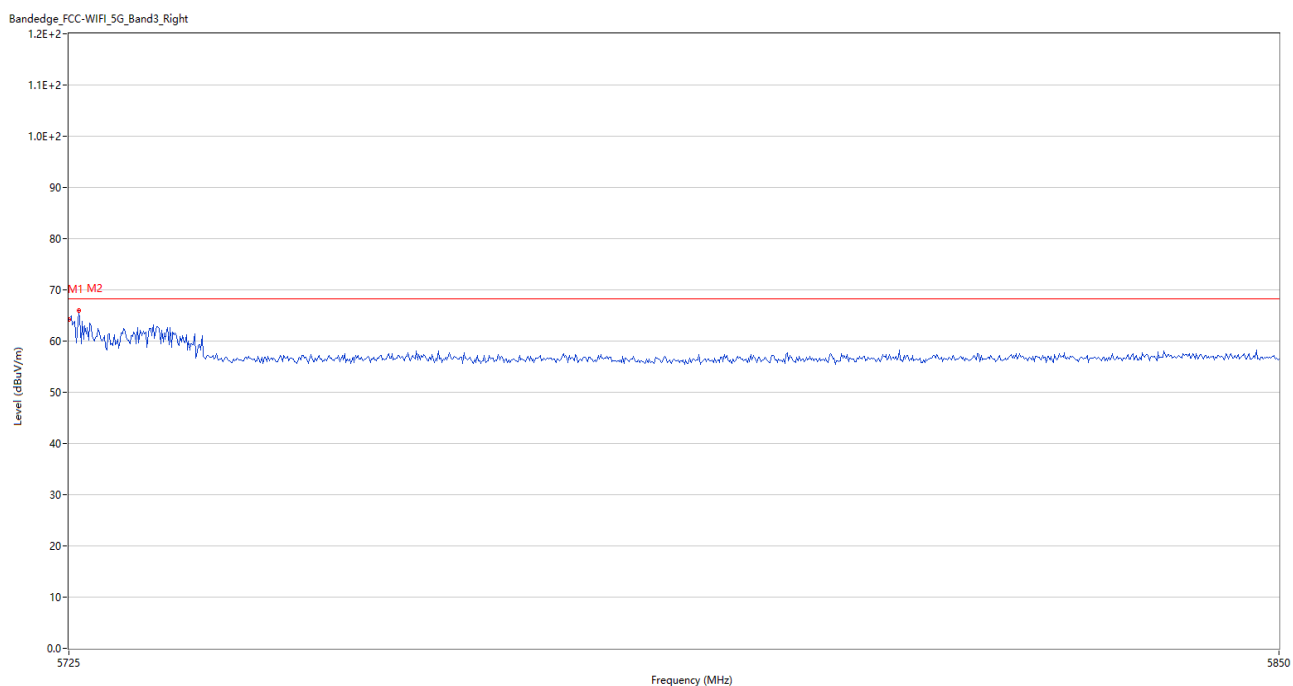
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	65.84	4.31	68.2	2.36	Peak	161.00	150	Horizontal	Pass
2	5726.875	64.43	4.25	68.2	3.77	Peak	173.00	150	Horizontal	Pass

U-NII-2C 11n20 CH100



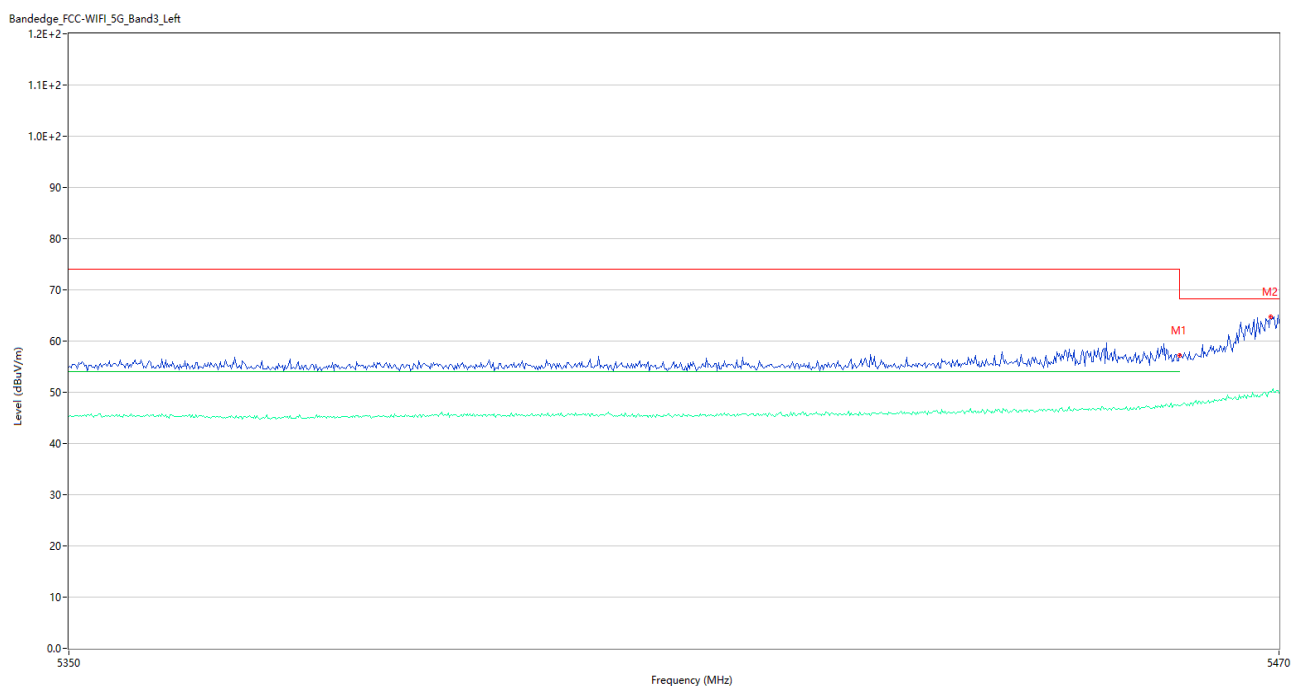
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	57.16	3.78	68.2	11.04	Peak	181.98	150	Horizontal	Pass
1**	5460.000	47.07	3.78	54.0	6.93	AV	181.98	150	Horizontal	Pass
2	5467.240	67.16	4.02	68.2	1.04	Peak	176.00	150	Horizontal	Pass
2**	5467.240	48.62	4.02	--	-48.62	AV	176.00	150	Horizontal	N/A

U-NII-2C 11n20 CH140



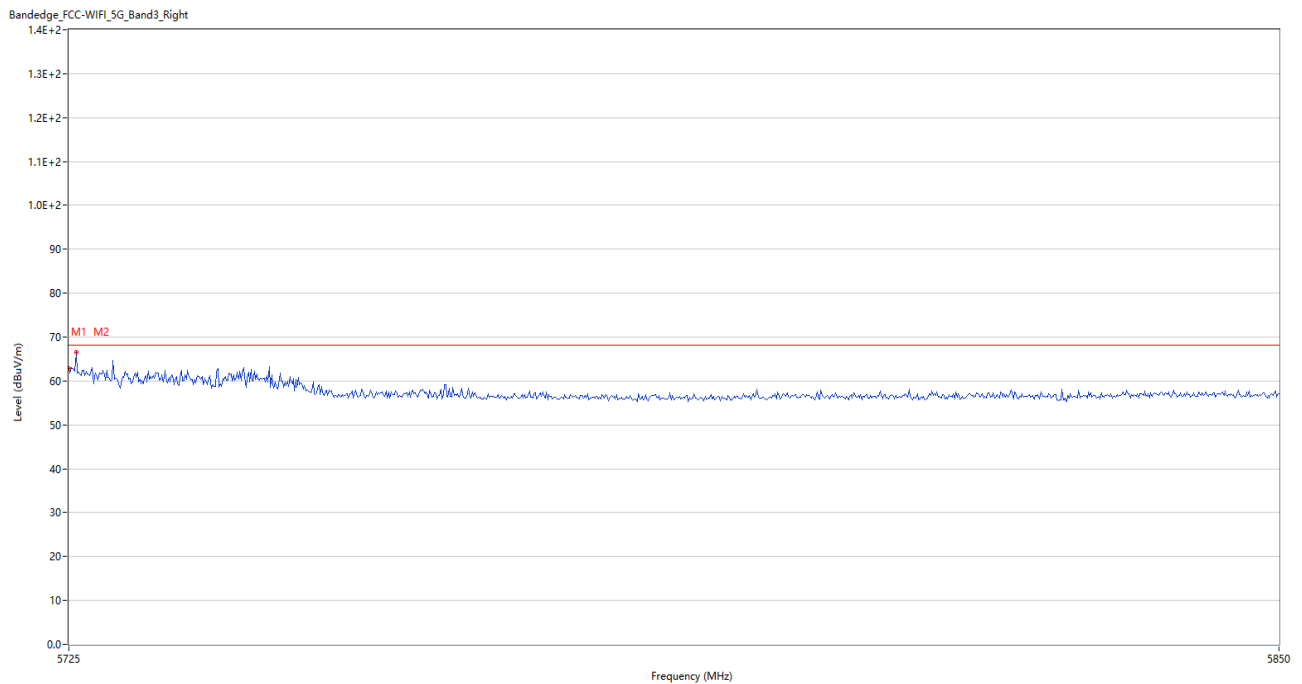
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	64.29	4.31	68.2	3.91	Peak	164.00	150	Horizontal	Pass
2	5726.000	66.01	4.27	68.2	2.19	Peak	178.00	150	Horizontal	Pass

U-NII-2C 11n40 CH102



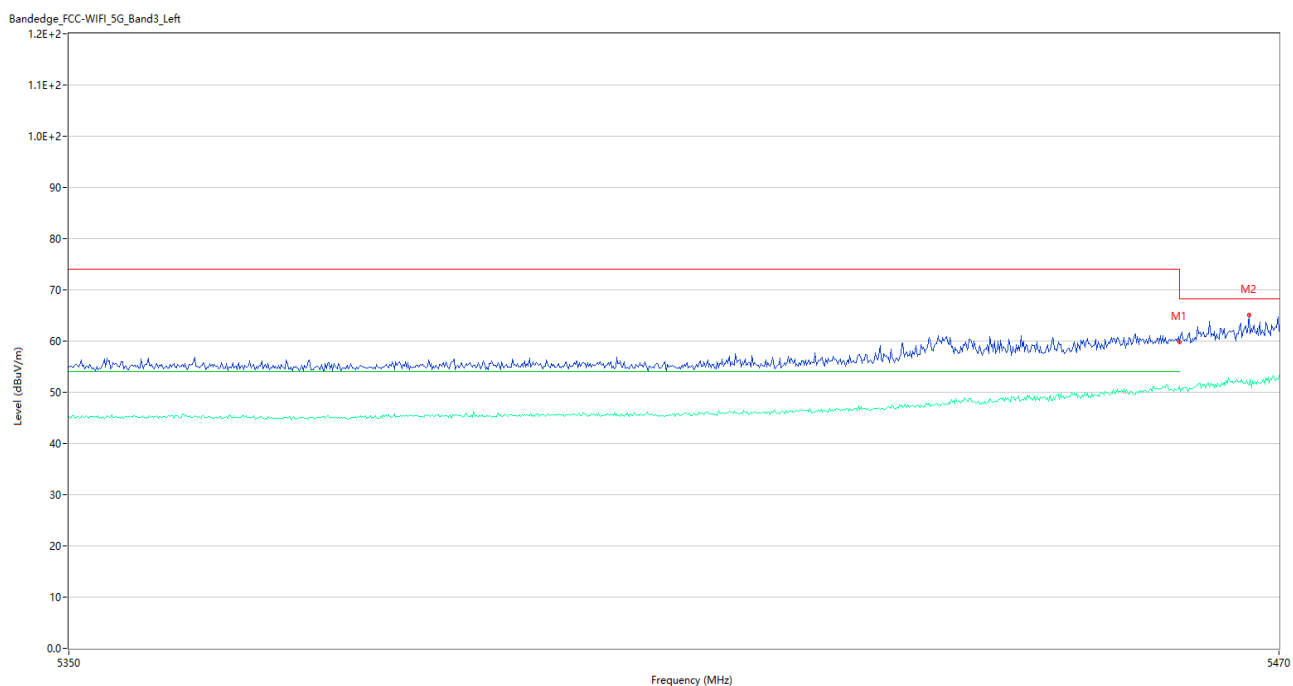
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	56.80	3.78	68.2	11.40	Peak	175.32	150	Horizontal	Pass
1**	5460.000	47.37	3.78	54.0	6.63	AV	175.32	150	Horizontal	Pass
2	5469.160	64.75	4.07	68.2	3.45	Peak	169.00	150	Horizontal	Pass
2**	5469.160	50.11	4.07	--	-50.11	AV	169.00	150	Horizontal	N/A

U-NII-2C 11ac40 CH134



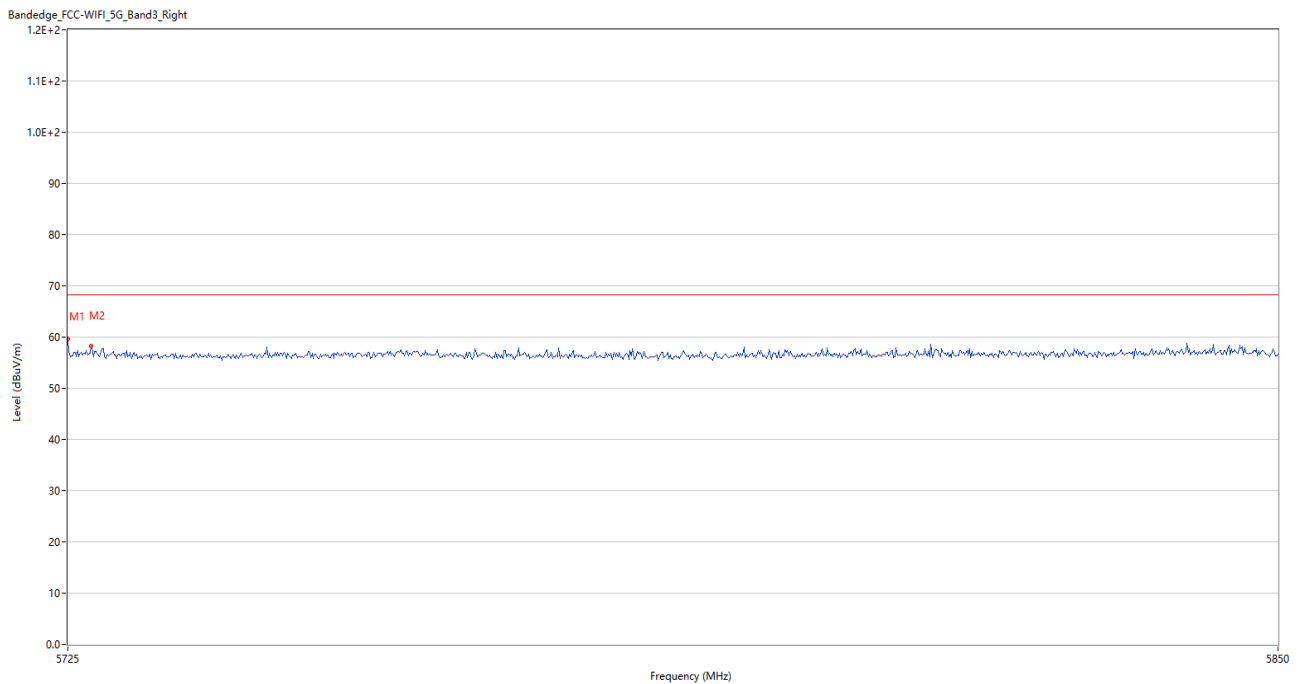
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	62.93	4.31	68.2	5.27	Peak	152.00	150	Horizontal	Pass
2	5725.750	66.56	4.28	68.2	1.64	Peak	169.00	150	Horizontal	Pass

U-NII-2C 11ac80 CH106



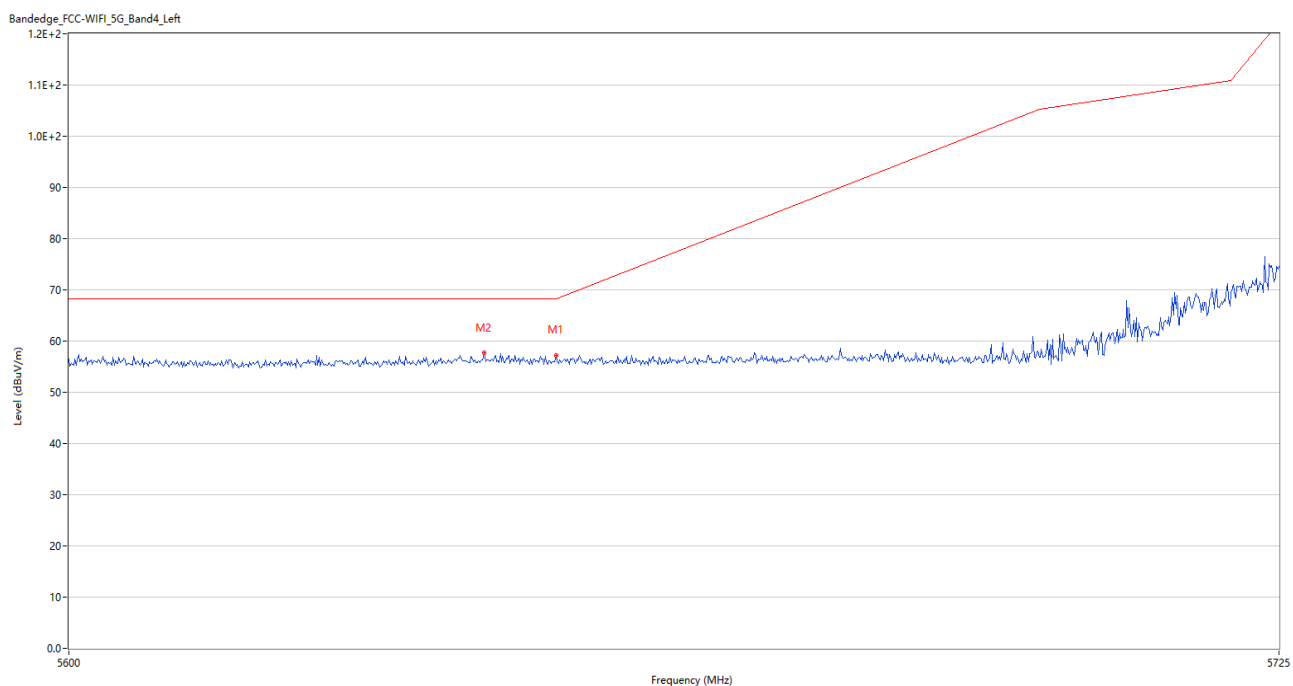
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	60.24	3.78	68.2	7.96	Peak	206.96	150	Horizontal	Pass
1**	5460.000	50.96	3.78	54.0	3.04	AV	206.96	150	Horizontal	Pass
2	5467.000	65.03	4.01	68.2	3.17	Peak	227.00	150	Horizontal	Pass
2**	5467.000	51.49	4.01	--	-51.49	AV	227.00	150	Horizontal	N/A

U-NII-2C 11ac80 CH122



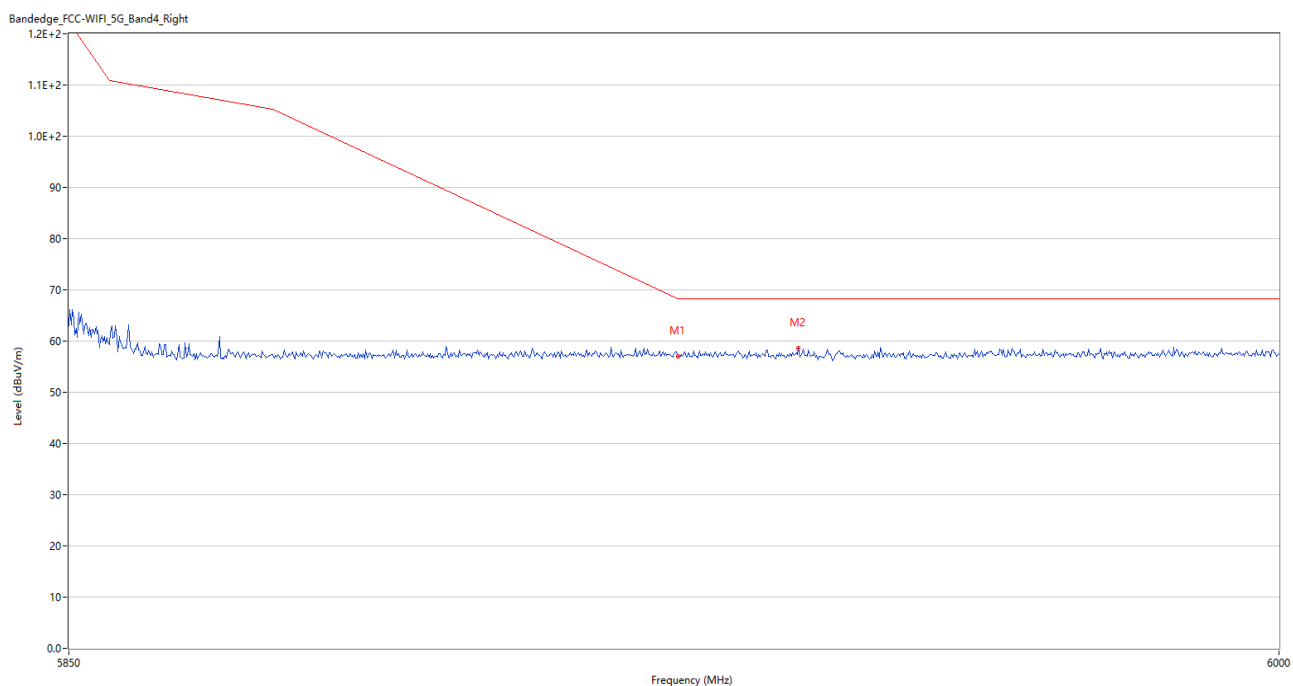
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	59.59	4.31	68.2	8.61	Peak	169.00	150	Horizontal	Pass
2	5727.375	58.25	4.24	68.2	9.95	Peak	172.00	150	Horizontal	Pass

U-NII-3 11a CH149



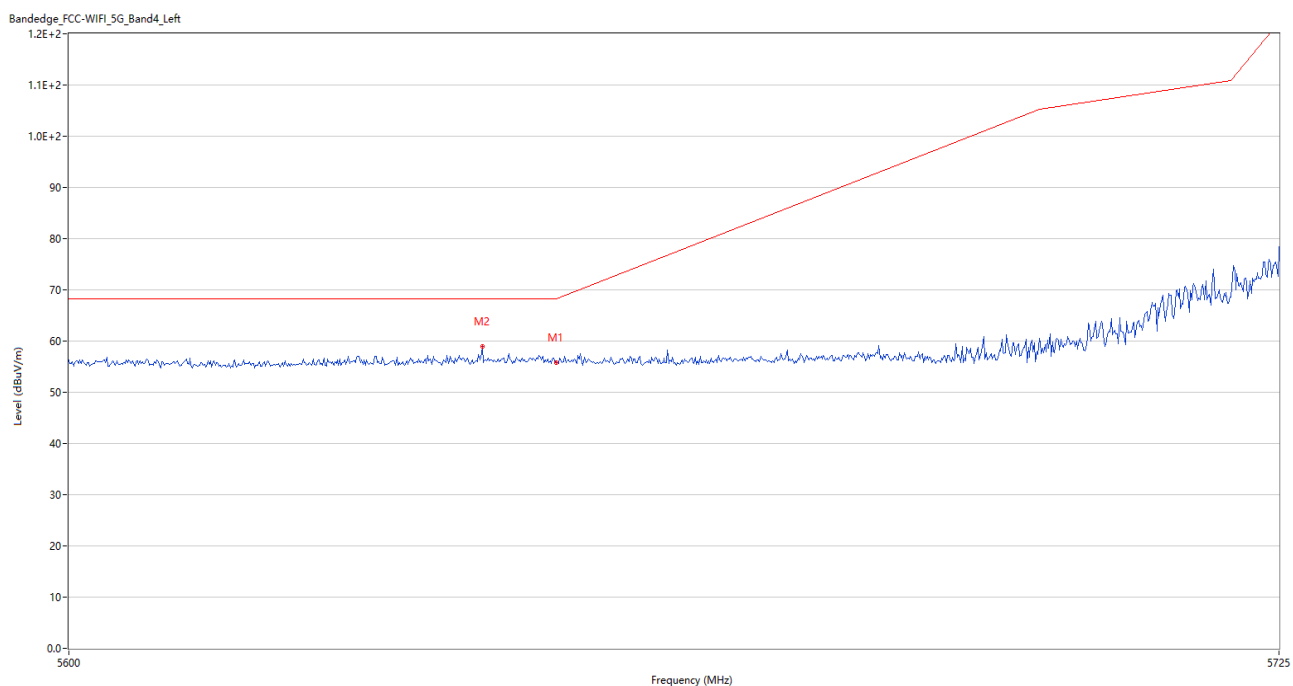
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.28	3.81	68.2	10.92	Peak	163.92	150	Horizontal	Pass
2	5642.625	57.80	3.74	68.2	10.40	Peak	164.00	150	Horizontal	Pass

U-NII-3 11a CH165



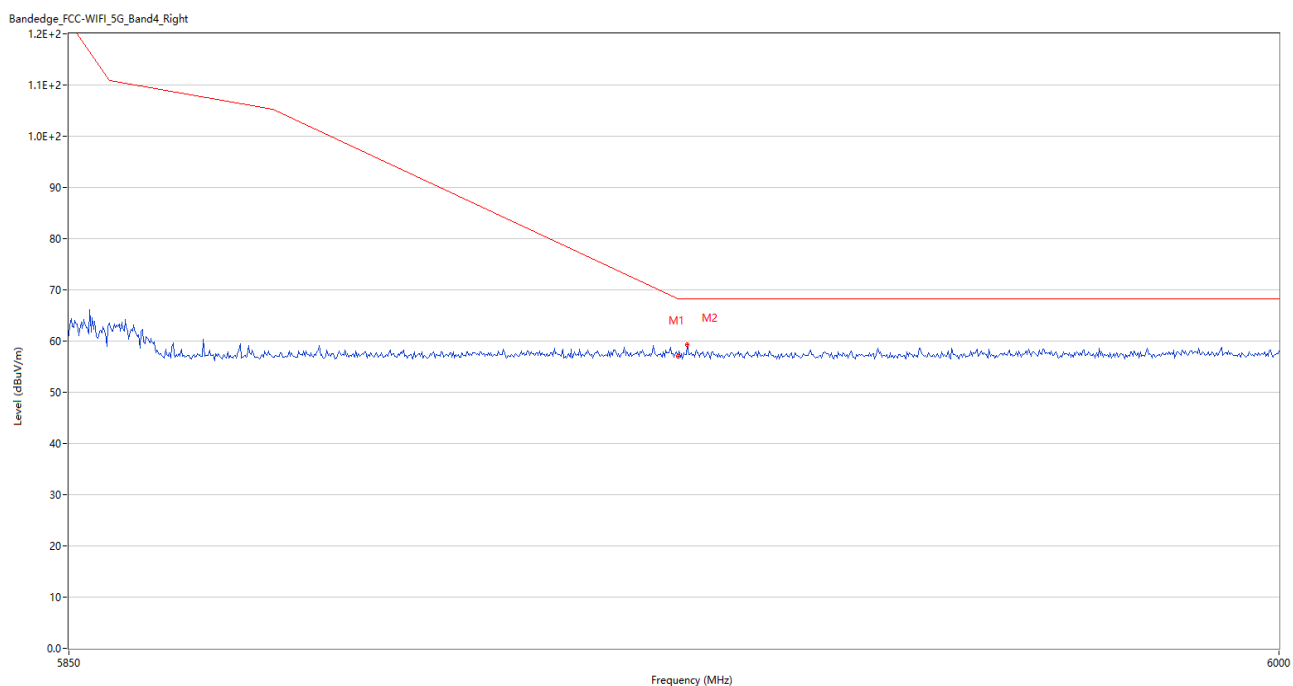
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.09	6.44	68.2	11.11	Peak	245.76	150	Vertical	Pass
2	5940.000	58.53	6.05	68.2	9.67	Peak	180.00	150	Vertical	Pass

U-NII-3 11n20 CH149



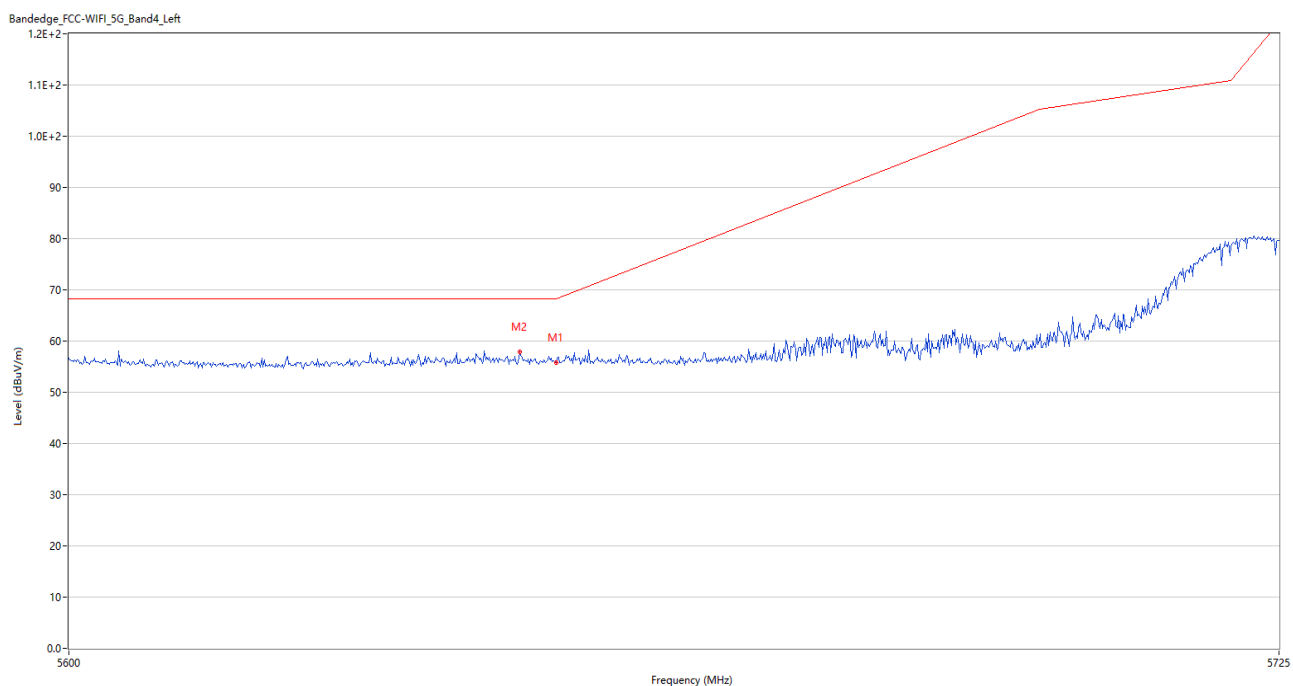
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.75	3.81	68.2	12.45	Peak	135.04	150	Horizontal	Pass
2	5642.375	58.88	3.74	68.2	9.32	Peak	170.00	150	Horizontal	Pass

U-NII-3 11n20 CH165



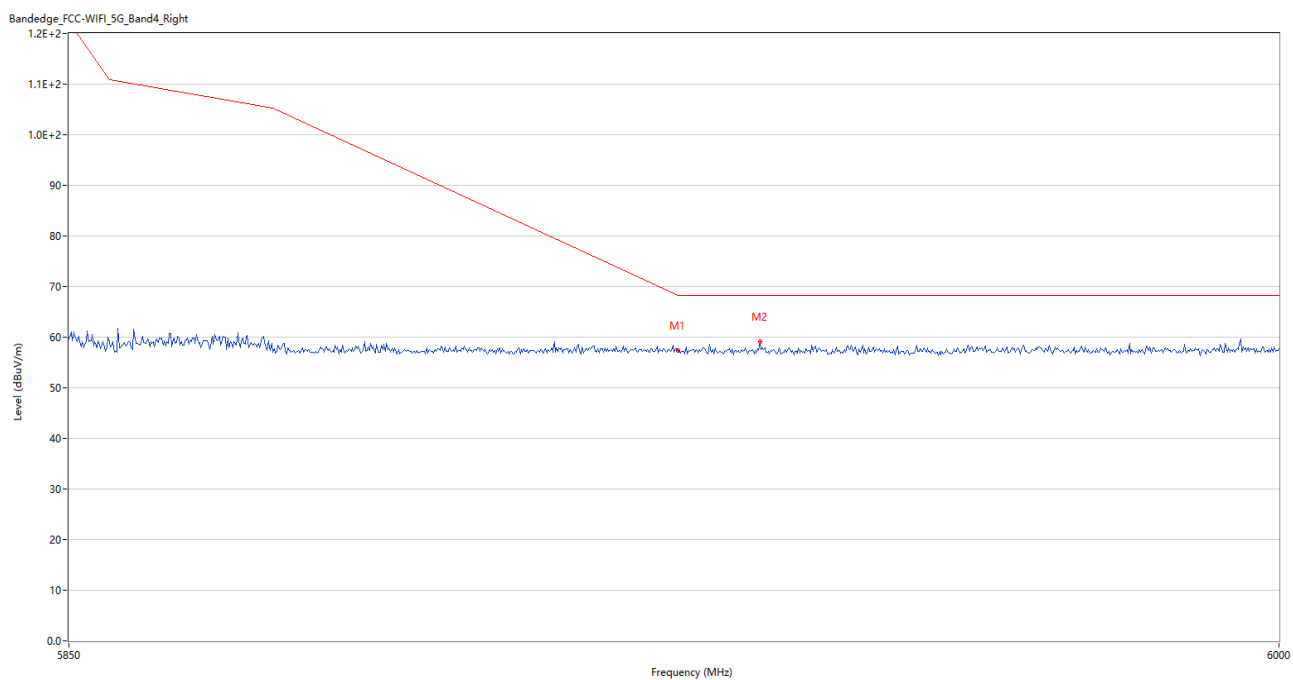
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.98	6.44	68.2	11.22	Peak	0.32	150	Vertical	Pass
2	5926.200	59.25	6.42	68.2	8.95	Peak	214.00	150	Vertical	Pass

U-NII-3 11n40 CH151



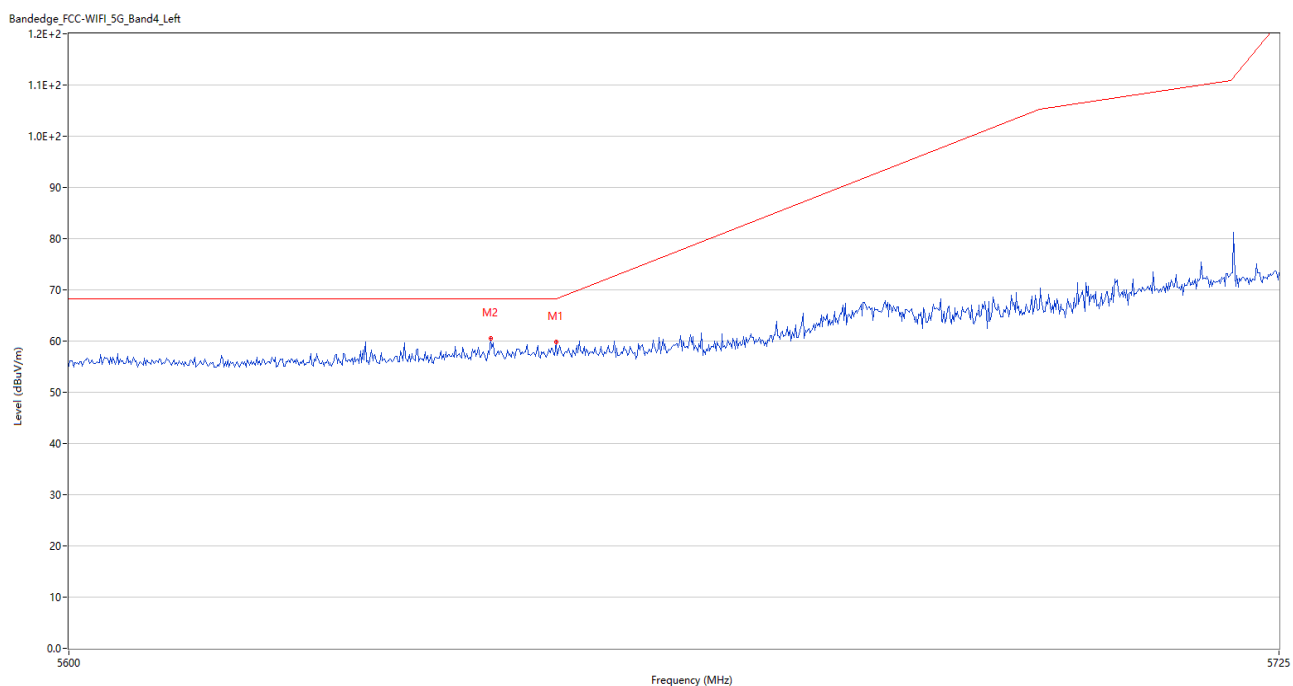
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.72	3.81	68.2	12.48	Peak	107.94	150	Horizontal	Pass
2	5646.250	57.84	3.78	68.2	10.36	Peak	165.00	150	Horizontal	Pass

U-NII-3 11n40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.29	6.44	68.2	10.91	Peak	254.95	150	Horizontal	Pass
2	5935.200	59.09	6.17	68.2	9.11	Peak	206.00	150	Horizontal	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	59.91	3.81	68.2	8.29	Peak	163.01	150	Horizontal	Pass
2	5643.250	60.52	3.75	68.2	7.68	Peak	161.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2530291-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2530291-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2530291-AI.PDF”.

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