

TEST REPORT

Applicant: Dagobah Systems Inc
Address: 651 N. Broad Street Suite 206 Middletown, DE
19709 United States
Equipment Type: ATA (Analog Telephone Adaptor) Gateway
Model Name: PC222
Marketing Name: PC222/PC222-LTE/PC222-LTE-R/PC228-
LTE/TC102-L/TC102-W/TC102-LR
Brand Name: TELCLOUD / POTSCAST
FCC ID: 2BON3-PC222
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Apr. 27, 2025
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ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 11, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Dagobah Systems Inc
Address	651 N. Broad Street Suite 206 Middletown, DE 19709 United States

2.2 Manufacturer Information

Manufacturer	Dagobah Systems Inc
Address	651 N. Broad Street Suite 206 Middletown, DE 19709 United States

2.3 General Description for Equipment under Test (EUT)

EUT Name	ATA (Analog Telephone Adaptor) Gateway
Model Name Under Test	PC222
Series Model Name	N/A
Marketing Name	PC222/PC222-LTE/PC222-LTE-R/PC228-LTE/TC102-L/TC102-W/TC102-LR
Description of Model name differentiation	N/A
Sample Number	SC-SH2530094-S04(conducted) SC-SH2530094-S05(radiated)
Hardware Version	P3
Software Version	PC-222_v1.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/12/13/14/66/71 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-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: 21.70 dBm U-NII-3: 21.67 dBm	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac	
Antenna Type	Main Antenna Aux. Antenna	PCB Antenna
Antenna Gain	Main Antenna	U-NII-1: 5150 MHz to 5250 MHz: 1.20 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.60 dBi
	Aux. Antenna	U-NII-1: 5150 MHz to 5250 MHz: 1.20 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.60 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 4.21 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.61 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 1.20 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.60 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 4.21 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.61 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots +$

		$10^{(G_N/20)^2 / NANT}$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 1.20 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.60 dBi Formulas: Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / NANT]$ dBi
About the Product		The equipment is ATA (Analog Telephone Adaptor) Gateway, intended for used with information technology equipment.

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

2.5 Channel List

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

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

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

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

For 802.11n(HT40)/ac(VHT40)

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

For 802.11ac(VHT80)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel Number	Channel Number	Channel Number	Channel	Frequency (MHz)
42	155	155	155	Mid	5290

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

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

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	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	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.

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	51% to 59%	
Atmospheric Pressure	101 kPa	
Temperature	NT (Normal Temperature)	+22.1°C to +23.9°C
Working Voltage of the EUT	NV (Normal Voltage)	22 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	BH-EMC-L067	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	BH-EMC-L008	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	BH-EMC-L044	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	BH-EMC-L061	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2025.02.11	2026.02.10
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2025.02.11	2026.02.10
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21

4.3 Test Software List

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

4.4 Decision Rule

☐ No Need

☒ Use General conformity decision rule (Consider uncertainty or not ☒No ☐Yes)

☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐No ☐Yes)

4.5 Measurement Uncertainty

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

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

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

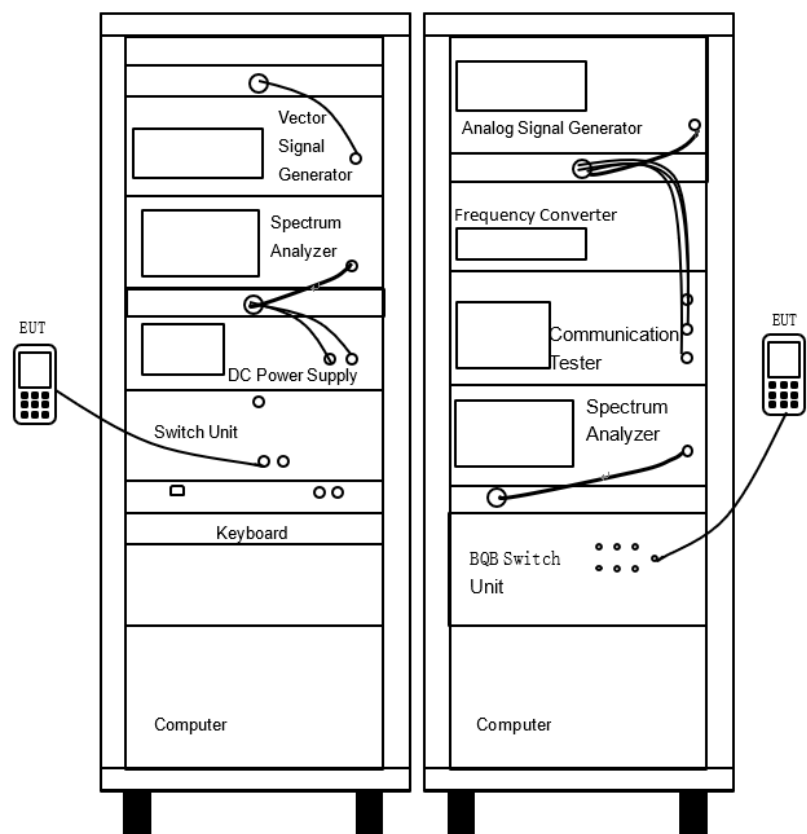
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

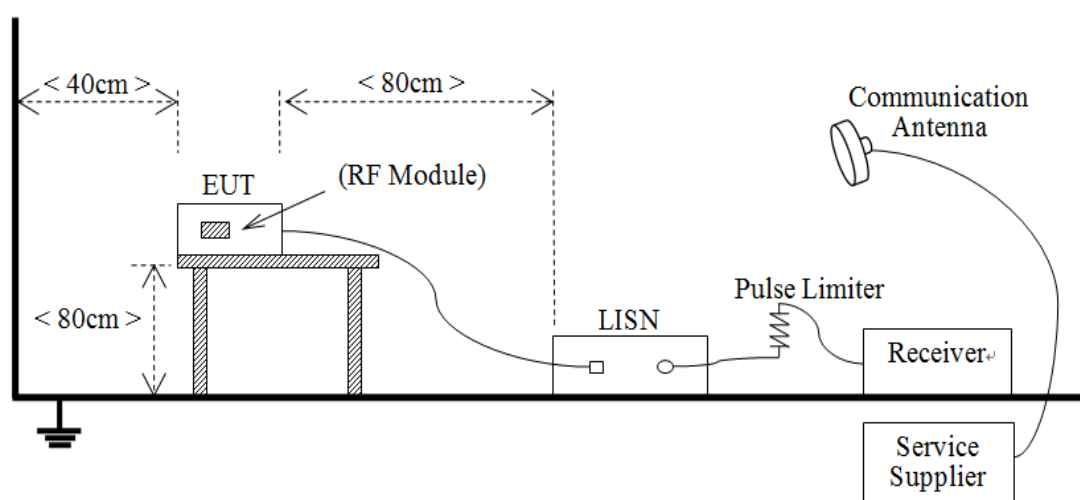
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



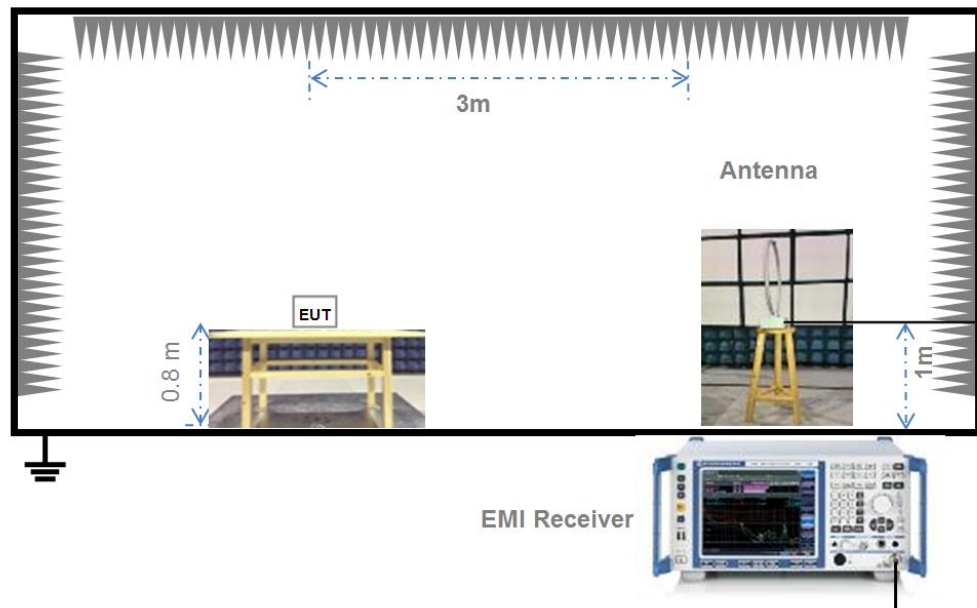
(Diagram 1)

4.6.2 For AC Power Supply Port Test



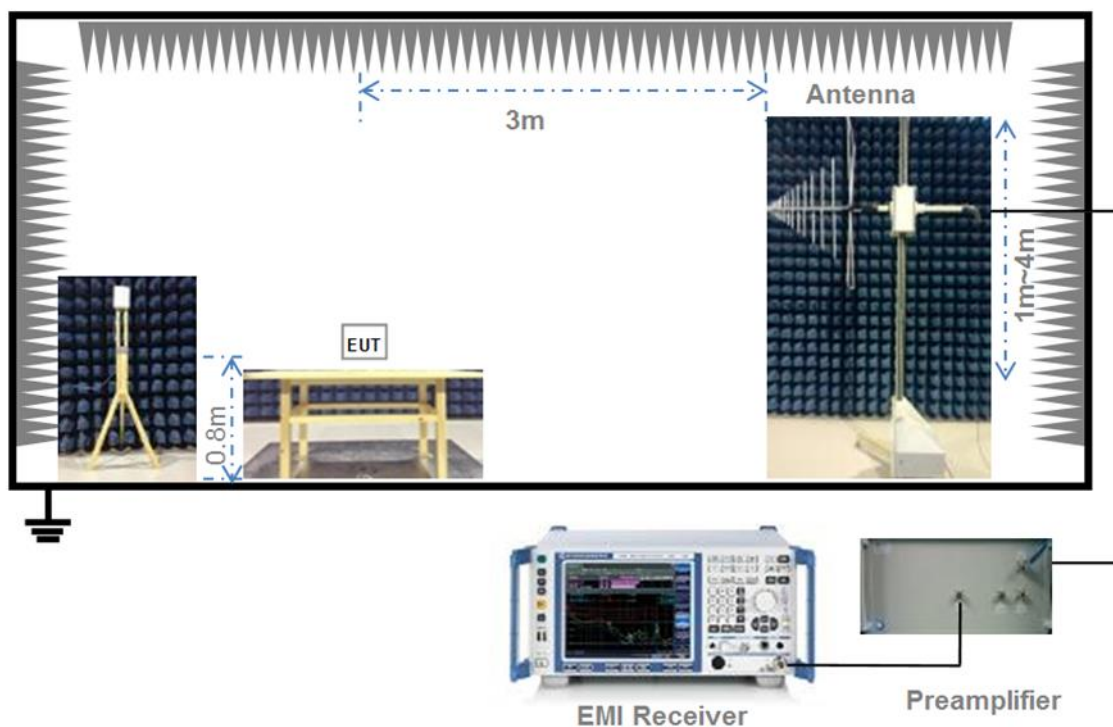
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



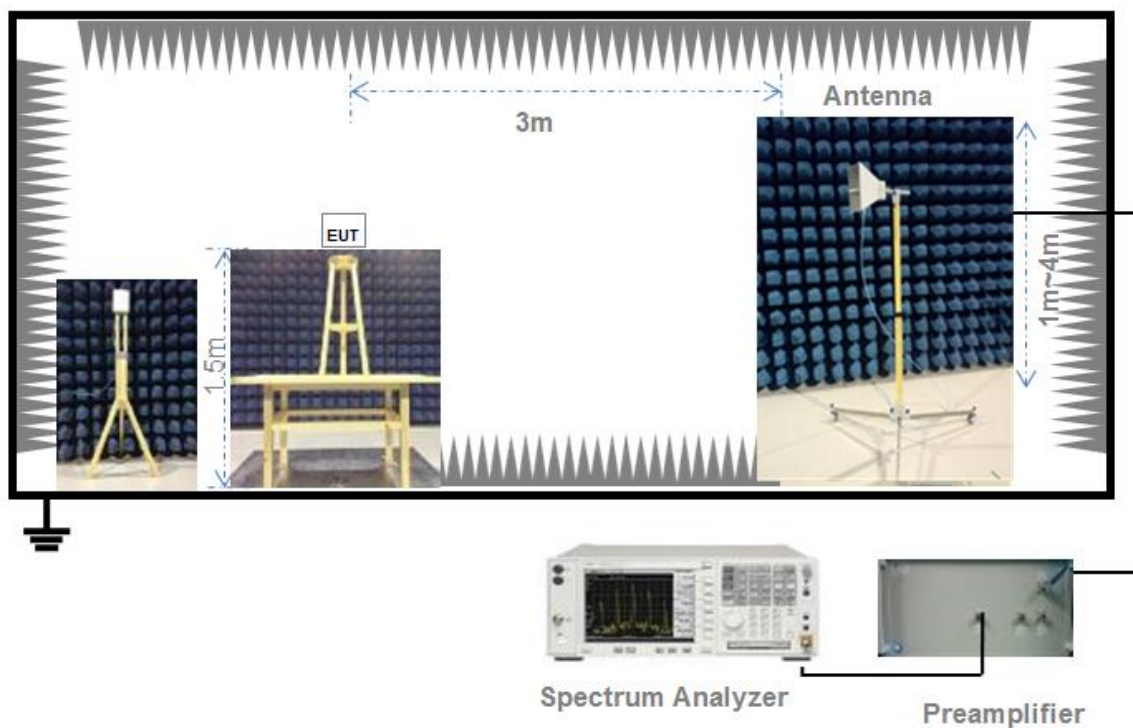
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

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

Measurements of duty cycle

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

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

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

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

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

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

environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

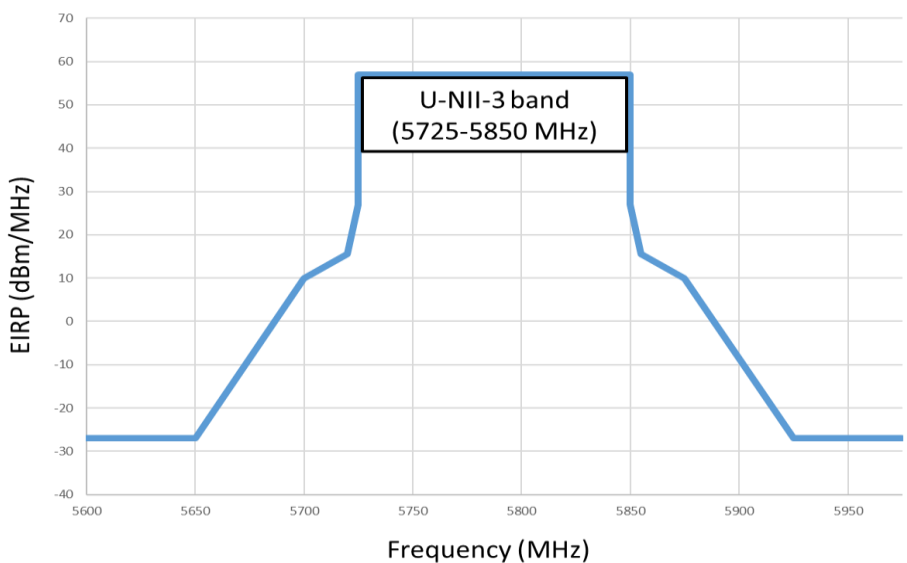
5.5.1 Limit

FCC §15.209 & 15.407(b)

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	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 $\geq 3 * \text{RBW}$.
- 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 $\geq 3 * \text{RBW}$.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

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

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.391	1.454	95.67%
11n (HT20)/11ac (VHT20)	1.304	1.372	95.04%
11n (HT40)/11ac (VHT40)	1.321	1.450	91.10%
11ac (VHT80)	0.190	0.248	76.42%

Test Data

Conducted Power

Main Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	17.40	54.98	250	Pass
11a	CH44	19.36	86.34	250	Pass
11a	CH48	19.46	88.35	250	Pass
11n (HT20)	CH36	16.97	49.77	250	Pass
11n (HT20)	CH44	19.26	84.33	250	Pass
11n (HT20)	CH48	19.23	83.75	250	Pass
11n (HT40)	CH38	15.69	37.04	250	Pass
11n (HT40)	CH46	19.96	99.01	250	Pass
11ac (VHT20)	CH36	16.96	49.66	250	Pass
11ac (VHT20)	CH44	18.97	78.89	250	Pass
11ac (VHT20)	CH48	18.89	77.45	250	Pass
11ac (VHT40)	CH38	15.54	35.78	250	Pass
11ac (VHT40)	CH46	18.58	72.06	250	Pass
11ac (VHT80)	CH42	14.81	30.25	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	18.91	77.84	1000	Pass
11a	CH157	18.95	78.57	1000	Pass
11a	CH165	19.42	87.54	1000	Pass
11n (HT20)	CH149	18.63	72.95	1000	Pass
11n (HT20)	CH157	18.26	66.99	1000	Pass
11n (HT20)	CH165	19.01	79.62	1000	Pass
11n (HT40)	CH151	18.23	66.48	1000	Pass
11n (HT40)	CH159	18.21	66.18	1000	Pass
11ac (VHT20)	CH149	17.28	53.46	1000	Pass
11ac (VHT20)	CH157	16.98	49.89	1000	Pass
11ac (VHT20)	CH165	17.87	61.24	1000	Pass
11ac (VHT40)	CH151	17.56	56.98	1000	Pass
11ac (VHT40)	CH159	17.27	53.30	1000	Pass
11ac (VHT80)	CH155	18.32	67.87	1000	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.33	21.54	250	Pass
11a	CH44	15.34	34.22	250	Pass
11a	CH48	15.55	35.91	250	Pass
11n (HT20)	CH36	12.70	18.62	250	Pass
11n (HT20)	CH44	15.10	32.36	250	Pass
11n (HT20)	CH48	15.27	33.65	250	Pass
11n (HT40)	CH38	11.53	14.21	250	Pass
11n (HT40)	CH46	16.91	49.06	250	Pass
11ac (VHT20)	CH36	12.93	19.63	250	Pass
11ac (VHT20)	CH44	15.37	34.43	250	Pass
11ac (VHT20)	CH48	15.65	36.73	250	Pass
11ac (VHT40)	CH38	11.50	14.12	250	Pass
11ac (VHT40)	CH46	15.66	36.79	250	Pass
11ac (VHT80)	CH42	12.46	17.61	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.43	55.36	1000	Pass
11a	CH157	18.34	68.27	1000	Pass
11a	CH165	17.48	56.01	1000	Pass
11n (HT20)	CH149	17.88	61.38	1000	Pass
11n (HT20)	CH157	17.39	54.83	1000	Pass
11n (HT20)	CH165	17.29	53.58	1000	Pass
11n (HT40)	CH151	17.26	53.17	1000	Pass
11n (HT40)	CH159	17.64	58.04	1000	Pass
11ac (VHT20)	CH149	15.71	37.24	1000	Pass
11ac (VHT20)	CH157	15.68	36.98	1000	Pass
11ac (VHT20)	CH165	16.03	40.09	1000	Pass
11ac (VHT40)	CH151	15.80	37.99	1000	Pass
11ac (VHT40)	CH159	16.75	47.28	1000	Pass
11ac (VHT80)	CH155	17.44	55.42	1000	Pass

MIMO:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	18.84	76.52	250	Pass
11a	CH44	20.81	120.56	250	Pass
11a	CH48	20.94	124.27	250	Pass
11n (HT20)	CH36	18.35	68.39	250	Pass
11n (HT20)	CH44	20.67	116.69	250	Pass
11n (HT20)	CH48	20.70	117.40	250	Pass
11n (HT40)	CH38	17.10	51.26	250	Pass
11n (HT40)	CH46	21.70	148.07	250	Pass
11ac (VHT20)	CH36	18.41	69.29	250	Pass
11ac (VHT20)	CH44	20.54	113.32	250	Pass
11ac (VHT20)	CH48	20.58	114.17	250	Pass
11ac (VHT40)	CH38	16.98	49.90	250	Pass
11ac (VHT40)	CH46	20.37	108.85	250	Pass
11ac (VHT80)	CH42	16.80	47.86	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	21.25	133.21	1000	Pass
11a	CH157	21.67	146.84	1000	Pass
11a	CH165	21.57	143.55	1000	Pass
11n (HT20)	CH149	21.28	134.32	1000	Pass
11n (HT20)	CH157	20.86	121.82	1000	Pass
11n (HT20)	CH165	21.24	133.20	1000	Pass
11n (HT40)	CH151	20.78	119.66	1000	Pass
11n (HT40)	CH159	20.94	124.21	1000	Pass
11ac (VHT20)	CH149	19.58	90.70	1000	Pass
11ac (VHT20)	CH157	19.39	86.87	1000	Pass
11ac (VHT20)	CH165	20.06	101.32	1000	Pass
11ac (VHT40)	CH151	19.78	94.97	1000	Pass
11ac (VHT40)	CH159	20.03	100.58	1000	Pass
11ac (VHT80)	CH155	20.91	123.30	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note 1: Test plots please refer to the document “Annex No.: BL-SH2540397-602 Data Part 1.pdf”.

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

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	28.43	16.93
11a	CH44	26.83	16.87
11a	CH48	27.34	16.82
11n (HT20)	CH36	27.53	17.78
11n (HT20)	CH44	24.86	17.78
11n (HT20)	CH48	23.94	17.75
11n (HT40)	CH38	54.97	36.26
11n (HT40)	CH46	62.74	36.31
11ac (VHT20)	CH36	23.87	17.69
11ac (VHT20)	CH44	23.57	17.65
11ac (VHT20)	CH48	20.69	17.59
11ac (VHT40)	CH38	40.83	36.10
11ac (VHT40)	CH46	40.78	36.10
11ac (VHT80)	CH42	91.72	75.69

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	26.51	16.87
11a	CH157	29.19	17.43
11a	CH165	29.75	17.92
11n (HT20)	CH149	26.58	17.78
11n (HT20)	CH157	26.05	17.76
11n (HT20)	CH165	29.58	17.93
11n (HT40)	CH151	41.67	36.21
11n (HT40)	CH159	61.28	36.27
11ac (VHT20)	CH149	20.46	17.57
11ac (VHT20)	CH157	20.34	17.56
11ac (VHT20)	CH165	22.53	17.62
11ac (VHT40)	CH151	46.65	36.17
11ac (VHT40)	CH159	52.73	36.24
11ac (VHT80)	CH155	112.80	75.89

A.3 6 dB Bandwidth

Note 1: Test plots please refer to the document “Annex No.: BL-SH2540397-602 Data Part 2.pdf”.

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

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	15.30	500.00	Pass
11n (HT20)	CH165	15.20	500.00	Pass
11n (HT40)	CH151	35.20	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	75.30	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SH2540397-602 Data Part 3.pdf”.

Test Data

Main Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	6.75	11.00	Pass
11a	CH44	8.94	11.00	Pass
11a	CH48	9.08	11.00	Pass
11n (HT20)	CH36	6.15	11.00	Pass
11n (HT20)	CH44	8.84	11.00	Pass
11n (HT20)	CH48	8.68	11.00	Pass
11n (HT40)	CH38	2.14	11.00	Pass
11n (HT40)	CH46	6.86	11.00	Pass
11ac (VHT20)	CH36	6.18	11.00	Pass
11ac (VHT20)	CH44	8.29	11.00	Pass
11ac (VHT20)	CH48	9.06	11.00	Pass
11ac (VHT40)	CH38	2.14	11.00	Pass
11ac (VHT40)	CH46	5.86	11.00	Pass
11ac (VHT80)	CH42	-1.76	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	5.47	30.00	Pass
11a	CH157	5.80	30.00	Pass
11a	CH165	5.67	30.00	Pass
11n (HT20)	CH149	5.11	30.00	Pass
11n (HT20)	CH157	4.40	30.00	Pass
11n (HT20)	CH165	4.69	30.00	Pass
11n (HT40)	CH151	1.29	30.00	Pass
11n (HT40)	CH159	1.33	30.00	Pass
11ac (VHT20)	CH149	3.52	30.00	Pass
11ac (VHT20)	CH157	2.98	30.00	Pass
11ac (VHT20)	CH165	3.67	30.00	Pass
11ac (VHT40)	CH151	0.92	30.00	Pass
11ac (VHT40)	CH159	0.63	30.00	Pass
11ac (VHT80)	CH155	-1.47	30.00	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.88	11.00	Pass
11a	CH44	4.90	11.00	Pass
11a	CH48	5.13	11.00	Pass
11n (HT20)	CH36	2.07	11.00	Pass
11n (HT20)	CH44	4.51	11.00	Pass
11n (HT20)	CH48	4.73	11.00	Pass
11n (HT40)	CH38	-1.94	11.00	Pass
11n (HT40)	CH46	3.09	11.00	Pass
11ac (VHT20)	CH36	2.19	11.00	Pass
11ac (VHT20)	CH44	4.66	11.00	Pass
11ac (VHT20)	CH48	5.26	11.00	Pass
11ac (VHT40)	CH38	-2.10	11.00	Pass
11ac (VHT40)	CH46	1.83	11.00	Pass
11ac (VHT80)	CH42	-4.23	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	4.27	30.00	Pass
11a	CH157	4.69	30.00	Pass
11a	CH165	3.43	30.00	Pass
11n (HT20)	CH149	4.41	30.00	Pass
11n (HT20)	CH157	3.49	30.00	Pass
11n (HT20)	CH165	2.78	30.00	Pass
11n (HT40)	CH151	-0.02	30.00	Pass
11n (HT40)	CH159	-0.30	30.00	Pass
11ac (VHT20)	CH149	2.71	30.00	Pass
11ac (VHT20)	CH157	2.29	30.00	Pass
11ac (VHT20)	CH165	1.75	30.00	Pass
11ac (VHT40)	CH151	0.21	30.00	Pass
11ac (VHT40)	CH159	-0.10	30.00	Pass
11ac (VHT80)	CH155	-2.32	30.00	Pass

MIMO:

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	8.24	11.00	Pass
11a	CH44	10.38	11.00	Pass
11a	CH48	10.55	11.00	Pass
11n (HT20)	CH36	7.58	11.00	Pass
11n (HT20)	CH44	10.20	11.00	Pass
11n (HT20)	CH48	10.15	11.00	Pass
11n (HT40)	CH38	3.57	11.00	Pass
11n (HT40)	CH46	8.38	11.00	Pass
11ac (VHT20)	CH36	7.64	11.00	Pass
11ac (VHT20)	CH44	9.85	11.00	Pass
11ac (VHT20)	CH48	10.57	11.00	Pass
11ac (VHT40)	CH38	3.53	11.00	Pass
11ac (VHT40)	CH46	7.31	11.00	Pass
11ac (VHT80)	CH42	0.19	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	7.92	30.00	Pass
11a	CH157	8.29	30.00	Pass
11a	CH165	7.70	30.00	Pass
11n (HT20)	CH149	7.78	30.00	Pass
11n (HT20)	CH157	6.98	30.00	Pass
11n (HT20)	CH165	6.85	30.00	Pass
11n (HT40)	CH151	3.69	30.00	Pass
11n (HT40)	CH159	3.60	30.00	Pass
11ac (VHT20)	CH149	6.14	30.00	Pass
11ac (VHT20)	CH157	5.66	30.00	Pass
11ac (VHT20)	CH165	5.83	30.00	Pass
11ac (VHT40)	CH151	3.59	30.00	Pass
11ac (VHT40)	CH159	3.29	30.00	Pass
11ac (VHT80)	CH155	1.14	30.00	Pass

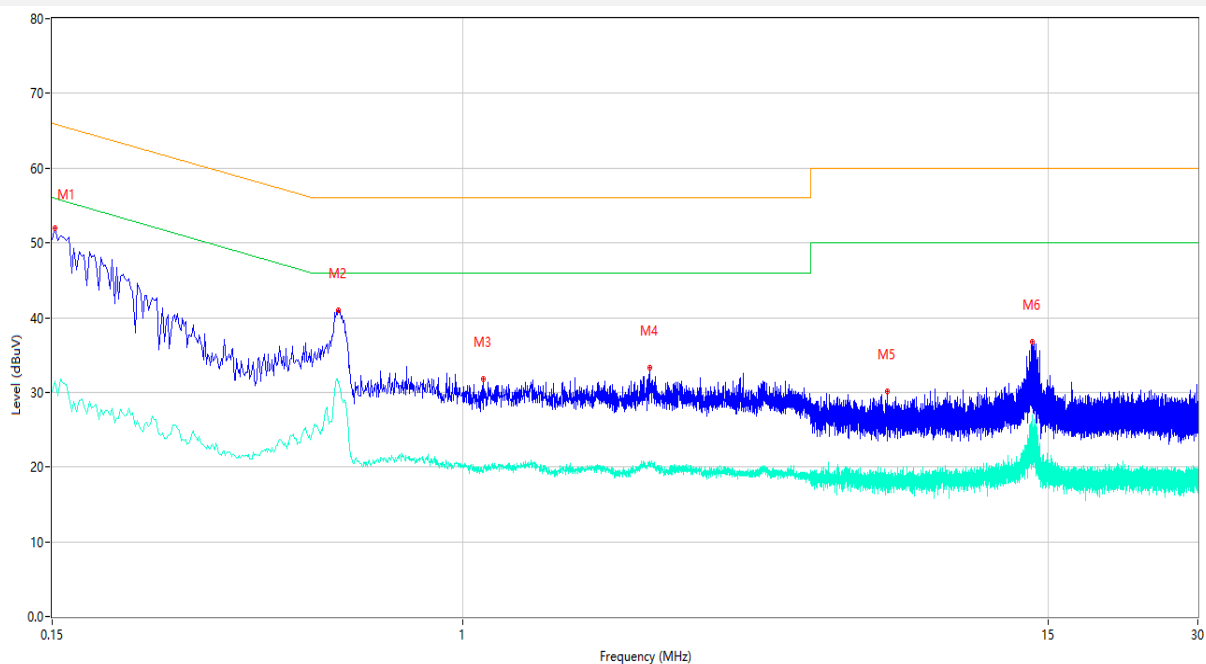
A.5 Conducted Emission

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.

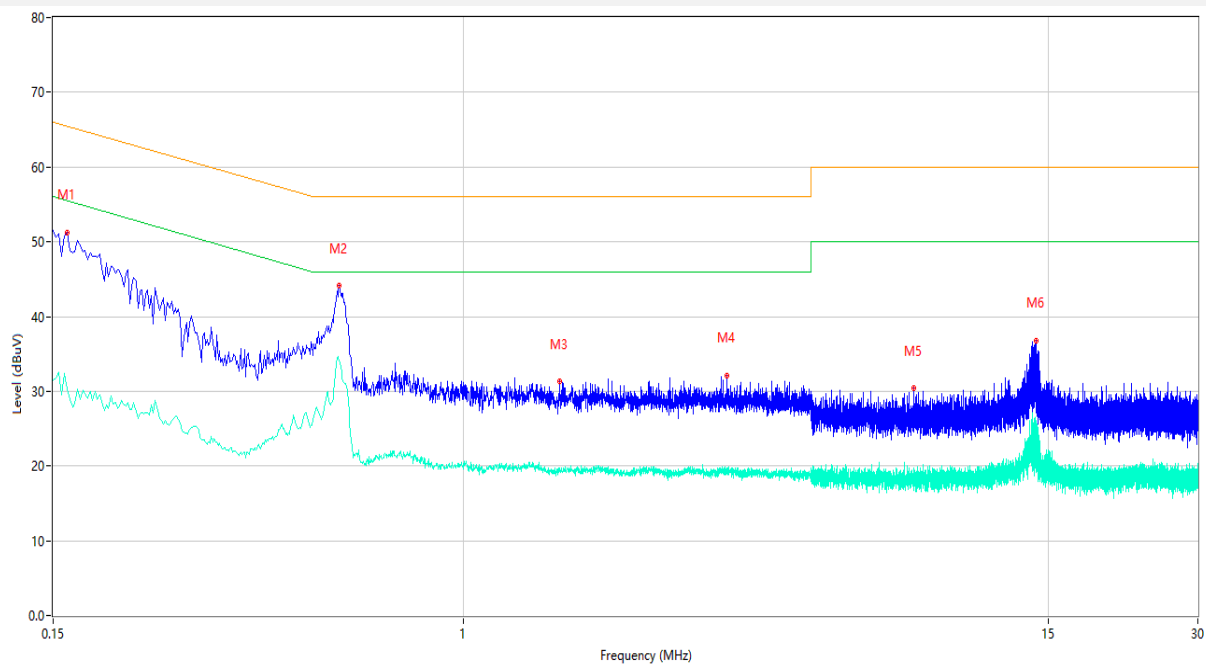
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	51.93	9.83	65.89	13.96	Peak	L	Pass
1**	0.152	31.42	9.83	55.89	24.47	AV	L	Pass
2	0.564	40.95	9.75	56.00	15.05	Peak	L	Pass
2**	0.564	31.48	9.75	46.00	14.52	AV	L	Pass
3	1.100	31.73	9.77	56.00	24.27	Peak	L	Pass
3**	1.100	19.69	9.77	46.00	26.31	AV	L	Pass
4	2.374	33.28	9.65	56.00	22.72	Peak	L	Pass
4**	2.374	20.85	9.65	46.00	25.15	AV	L	Pass
5	7.142	30.15	9.35	60.00	29.85	Peak	L	Pass
5**	7.142	19.00	9.35	50.00	31.00	AV	L	Pass
6	13.976	36.74	8.97	60.00	23.26	Peak	L	Pass
6**	13.976	25.70	8.97	50.00	24.30	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	51.30	9.73	65.46	14.16	Peak	N	Pass
1**	0.160	30.28	9.73	55.46	25.18	AV	N	Pass
2	0.564	44.08	9.74	56.00	11.92	Peak	N	Pass
2**	0.564	34.08	9.74	46.00	11.92	AV	N	Pass
3	1.564	31.30	9.75	56.00	24.70	Peak	N	Pass
3**	1.564	19.70	9.75	46.00	26.30	AV	N	Pass
4	3.398	32.16	9.68	56.00	23.84	Peak	N	Pass
4**	3.398	19.75	9.68	46.00	26.25	AV	N	Pass
5	8.062	30.44	9.36	60.00	29.56	Peak	N	Pass
5**	8.062	18.41	9.36	50.00	31.59	AV	N	Pass
6	14.216	36.83	9.01	60.00	23.17	Peak	N	Pass
6**	14.216	25.00	9.01	50.00	25.00	AV	N	Pass

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

A.6.1 Radiated Spurious Emissions

Test Data

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

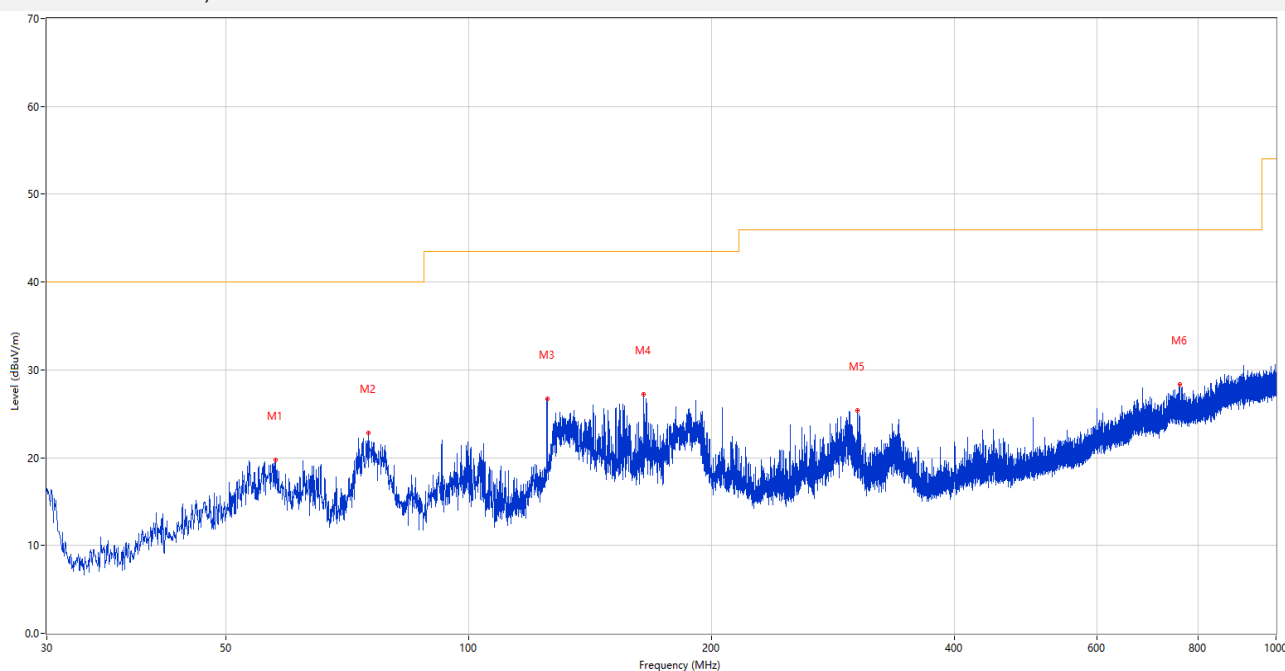
Note 2: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

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

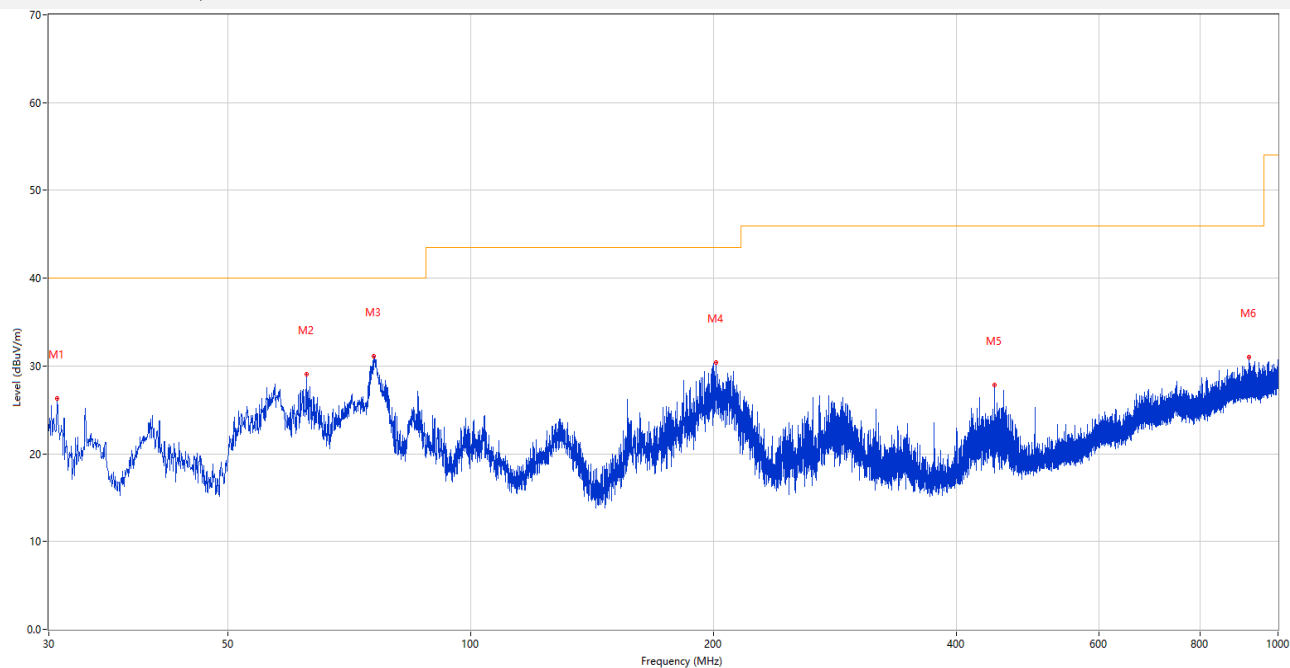
Note 5: For Multiple transmitter output, the quantity $10 \log(NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding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

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.548	19.75	-25.54	40.0	20.25	Peak	138.00	100	Horizontal	Pass
2	75.154	22.87	-30.48	40.0	17.13	Peak	96.00	100	Horizontal	Pass
3	125.011	26.75	-28.74	43.5	16.75	Peak	303.00	200	Horizontal	Pass
4	164.587	27.21	-28.49	43.5	16.29	Peak	224.00	100	Horizontal	Pass
5	303.006	25.43	-23.23	46.0	20.57	Peak	108.00	100	Horizontal	Pass
6	759.246	28.31	-11.96	46.0	17.69	Peak	360.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



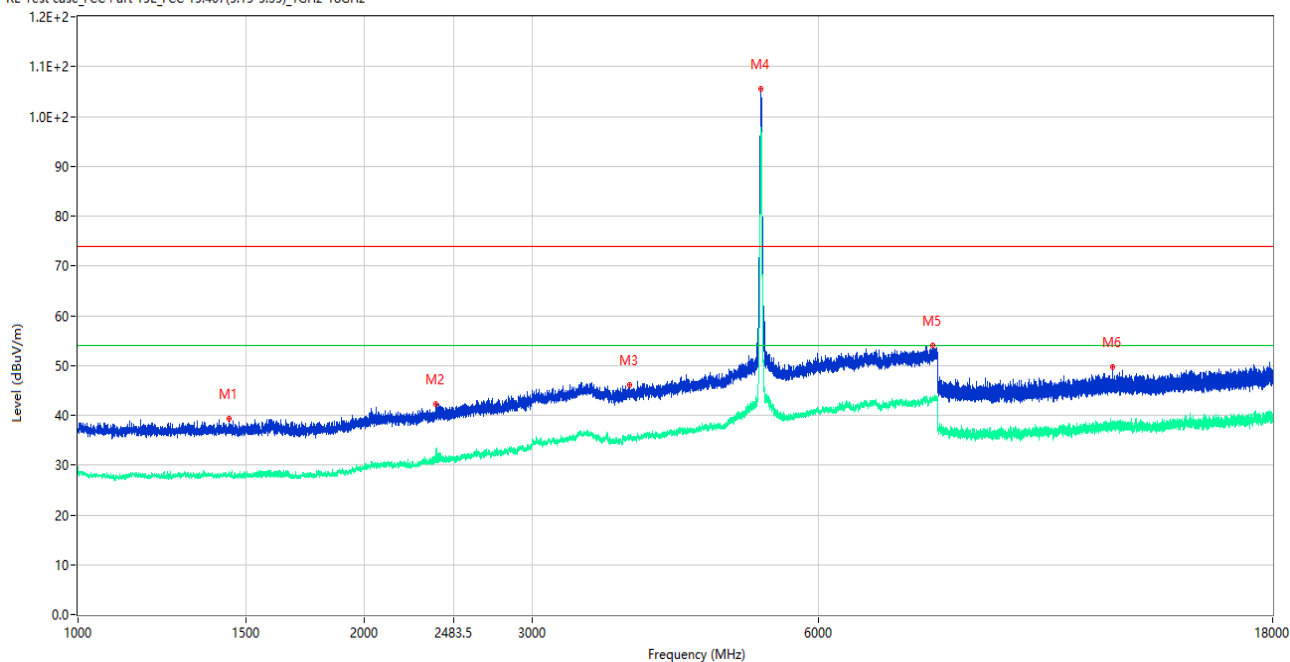
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.727	26.34	-29.04	40.0	13.66	Peak	229.00	100	Vertical	Pass
2	62.641	29.06	-26.68	40.0	10.94	Peak	360.00	100	Vertical	Pass
3	75.784	31.15	-30.62	40.0	8.85	Peak	143.00	200	Vertical	Pass
4	201.302	30.39	-26.01	43.5	13.11	Peak	247.00	100	Vertical	Pass
5	445.306	27.87	-19.51	46.0	18.13	Peak	360.00	100	Vertical	Pass
6	921.188	31.02	-9.15	46.0	14.98	Peak	89.00	200	Vertical	Pass

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

Main Antenna:

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

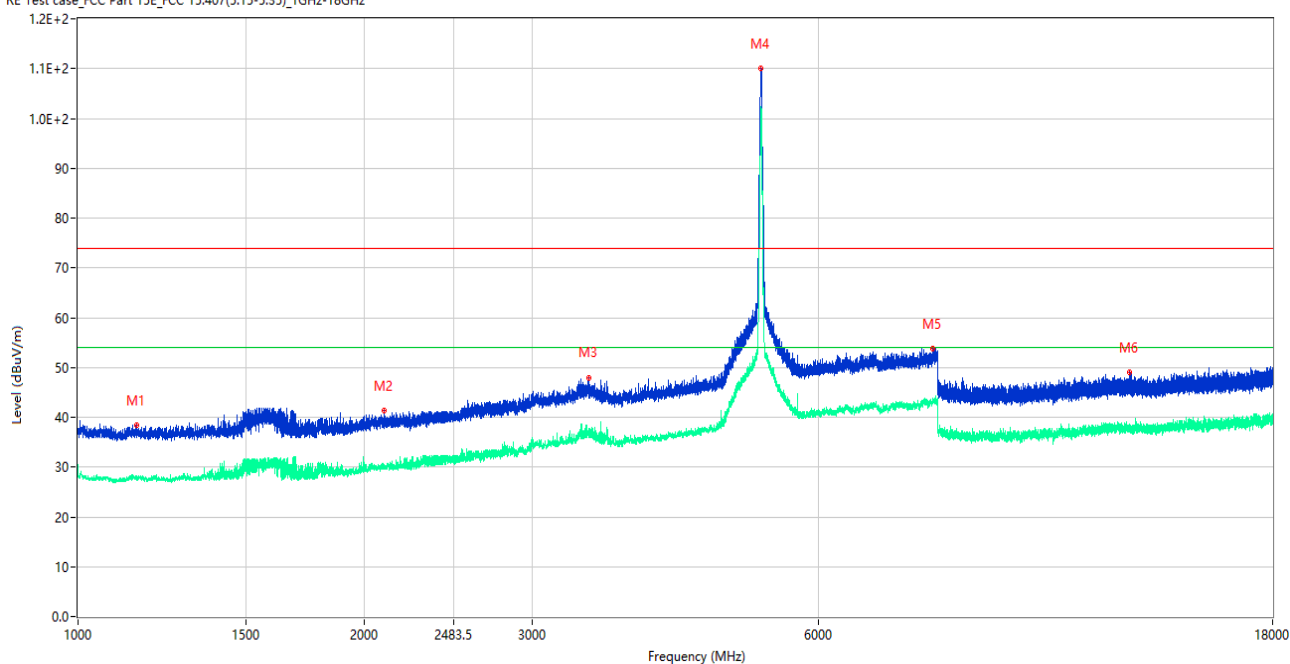
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.750	39.27	-15.94	74.0	34.73	Peak	1.00	150	Horizontal	Pass
1**	1440.750	27.93	-15.94	54.0	26.07	AV	1.00	150	Horizontal	Pass
2	2375.500	42.26	-11.93	74.0	31.74	Peak	1.00	150	Horizontal	Pass
2**	2375.500	32.91	-11.93	54.0	21.09	AV	1.00	150	Horizontal	Pass
3	3801.500	46.15	-4.57	74.0	27.85	Peak	21.00	150	Horizontal	Pass
3**	3801.500	35.58	-4.57	54.0	18.42	AV	21.00	150	Horizontal	Pass
4	5220.000	105.58	-2.36	74.0	-31.58	Peak	89.00	150	Horizontal	N/A
4**	5220.000	97.24	-2.36	54.0	-43.24	AV	89.00	150	Horizontal	N/A
5	7915.000	53.95	1.84	74.0	20.05	Peak	0.00	150	Horizontal	Pass
5**	7915.000	43.26	1.84	54.0	10.74	AV	0.00	150	Horizontal	Pass
6	12211.826	49.78	-2.79	74.0	24.22	Peak	215.00	150	Horizontal	Pass
6**	12211.826	37.25	-2.79	54.0	16.75	AV	215.00	150	Horizontal	Pass

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

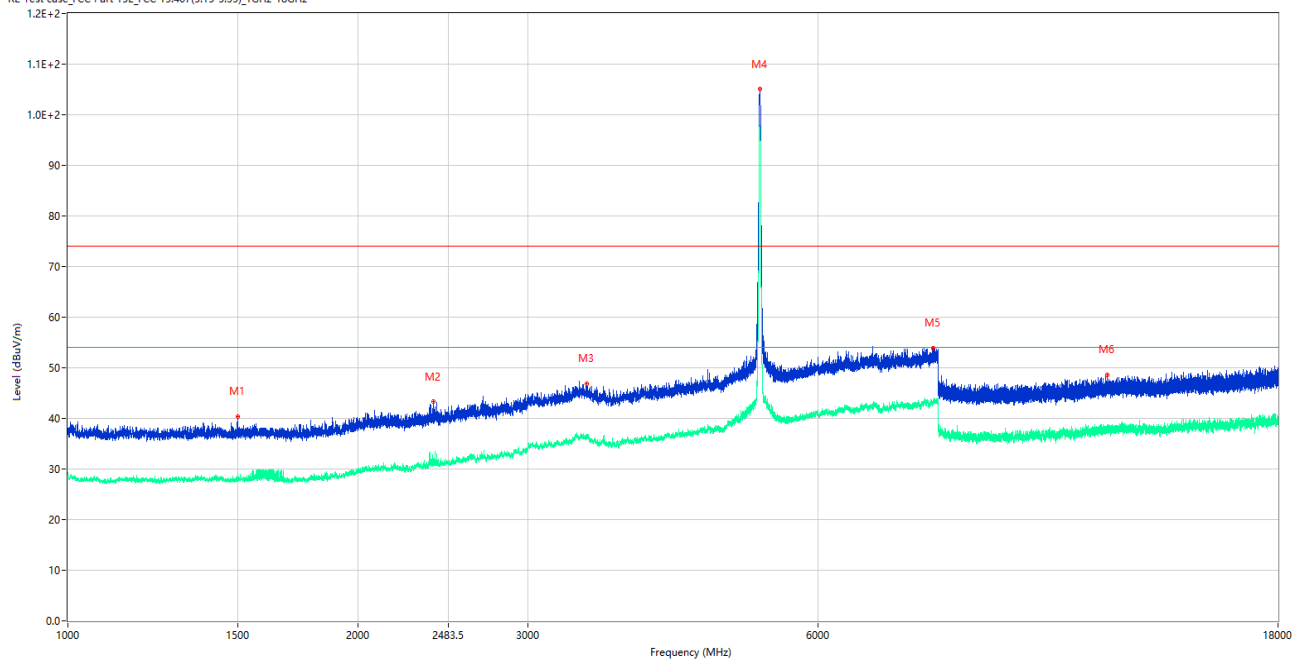
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1153.250	38.36	-15.67	74.0	35.64	Peak	1.00	150	Vertical	Pass
1**	1153.250	27.67	-15.67	54.0	26.33	AV	1.00	150	Vertical	Pass
2	2099.250	41.25	-13.53	74.0	32.75	Peak	230.00	150	Vertical	Pass
2**	2099.250	30.04	-13.53	54.0	23.96	AV	230.00	150	Vertical	Pass
3	3440.500	48.02	-5.28	74.0	25.98	Peak	255.00	150	Vertical	Pass
3**	3440.500	36.87	-5.28	54.0	17.13	AV	255.00	150	Vertical	Pass
4	5218.000	110.02	-2.38	74.0	-36.02	Peak	208.00	150	Vertical	N/A
4**	5218.000	102.02	-2.38	54.0	-48.02	AV	208.00	150	Vertical	N/A
5	7918.000	53.82	1.93	74.0	20.18	Peak	0.00	150	Vertical	Pass
5**	7918.000	42.96	1.93	54.0	11.04	AV	0.00	150	Vertical	Pass
6	12716.750	49.00	-3.00	74.0	25.00	Peak	334.00	150	Vertical	Pass
6**	12716.750	37.35	-3.00	54.0	16.65	AV	334.00	150	Vertical	Pass

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

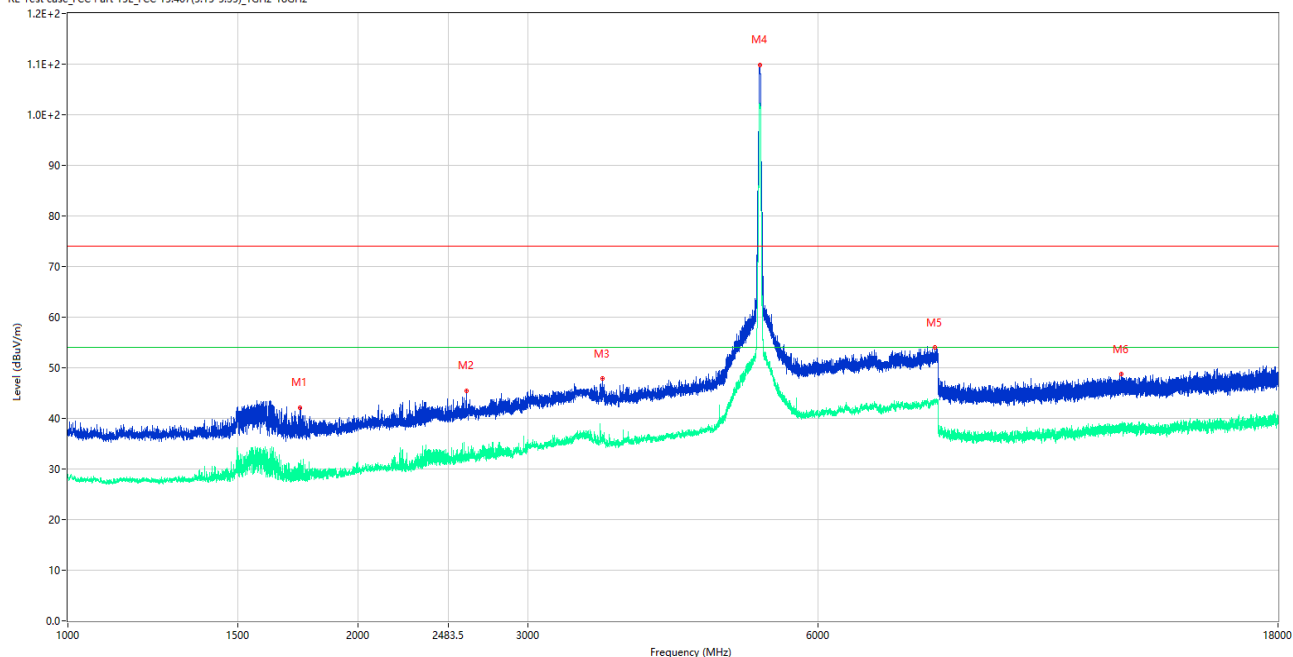
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.250	40.36	-16.13	74.0	33.64	Peak	205.00	150	Horizontal	Pass
1**	1500.250	28.75	-16.13	54.0	25.25	AV	205.00	150	Horizontal	Pass
2	2396.000	43.32	-12.88	74.0	30.68	Peak	0.00	150	Horizontal	Pass
2**	2396.000	31.08	-12.88	54.0	22.92	AV	0.00	150	Horizontal	Pass
3	3455.500	46.93	-4.89	74.0	27.07	Peak	321.00	150	Horizontal	Pass
3**	3455.500	36.16	-4.89	54.0	17.84	AV	321.00	150	Horizontal	Pass
4	5218.500	105.17	-2.37	74.0	-31.17	Peak	72.00	150	Horizontal	N/A
4**	5218.500	97.77	-2.37	54.0	-43.77	AV	72.00	150	Horizontal	N/A
5	7895.500	53.87	1.51	74.0	20.13	Peak	360.00	150	Horizontal	Pass
5**	7895.500	43.17	1.51	54.0	10.83	AV	360.00	150	Horizontal	Pass
6	11971.713	48.68	-3.12	74.0	25.32	Peak	6.00	150	Horizontal	Pass
6**	11971.713	38.07	-3.12	54.0	15.93	AV	6.00	150	Horizontal	Pass

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

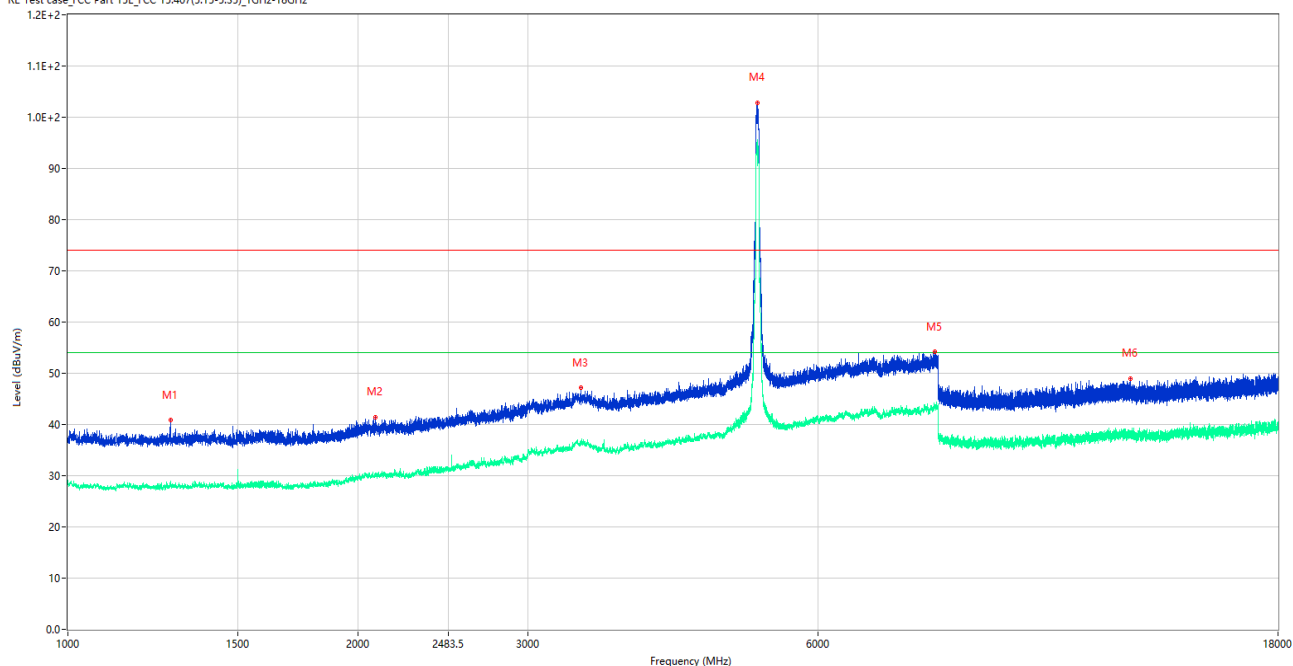
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1739.250	42.19	-16.20	74.0	31.81	Peak	297.00	150	Vertical	Pass
1**	1739.250	29.96	-16.20	54.0	24.04	AV	297.00	150	Vertical	Pass
2	2589.750	45.40	-10.72	74.0	28.60	Peak	289.00	150	Vertical	Pass
2**	2589.750	31.69	-10.72	54.0	22.31	AV	289.00	150	Vertical	Pass
3	3589.000	47.87	-6.24	74.0	26.13	Peak	261.00	150	Vertical	Pass
3**	3589.000	36.15	-6.24	54.0	17.85	AV	261.00	150	Vertical	Pass
4	5225.000	109.89	-2.35	74.0	-35.89	Peak	71.00	150	Vertical	N/A
4**	5225.000	102.05	-2.35	54.0	-48.05	AV	71.00	150	Vertical	N/A
5	7932.500	54.05	2.07	74.0	19.95	Peak	360.00	150	Vertical	Pass
5**	7932.500	43.51	2.07	54.0	10.49	AV	360.00	150	Vertical	Pass
6	12372.138	48.70	-2.17	74.0	25.30	Peak	334.00	150	Vertical	Pass
6**	12372.138	37.99	-2.17	54.0	16.01	AV	334.00	150	Vertical	Pass

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

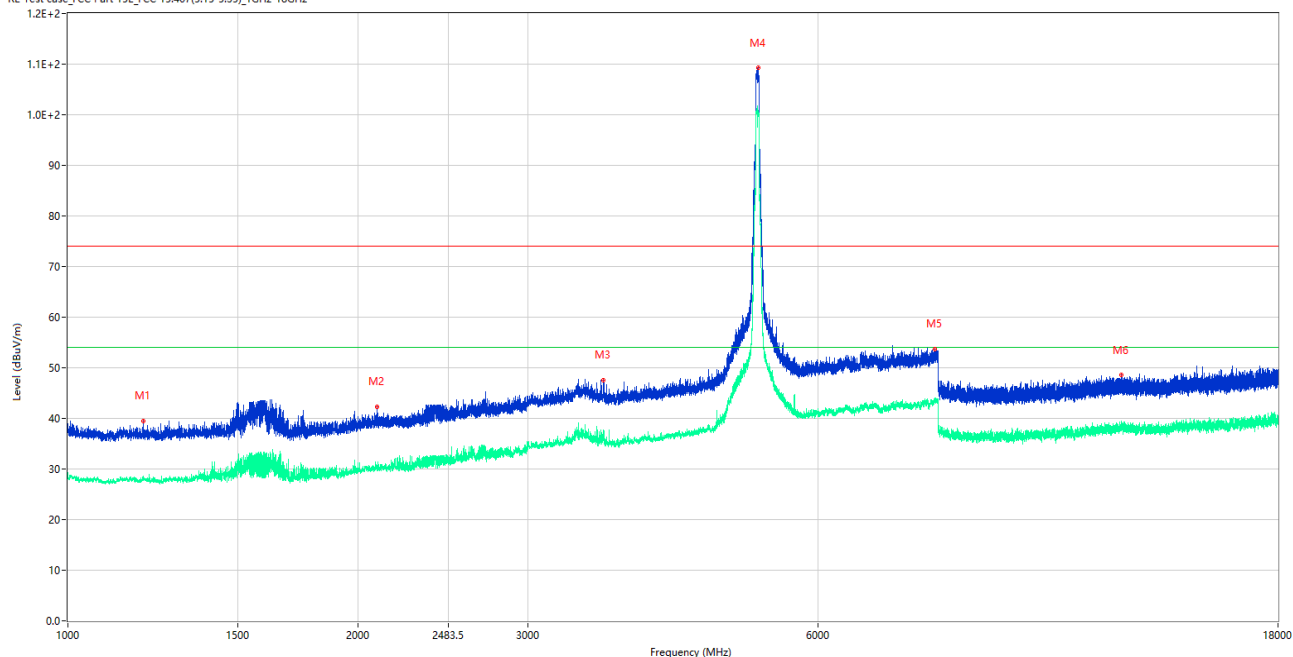
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1277.000	40.80	-15.85	74.0	33.20	Peak	0.00	150	Horizontal	Pass
1**	1277.000	28.03	-15.85	54.0	25.97	AV	0.00	150	Horizontal	Pass
2	2085.250	41.42	-13.77	74.0	32.58	Peak	284.00	150	Horizontal	Pass
2**	2085.250	30.05	-13.77	54.0	23.95	AV	284.00	150	Horizontal	Pass
3	3407.500	47.12	-5.33	74.0	26.88	Peak	23.00	150	Horizontal	Pass
3**	3407.500	36.15	-5.33	54.0	17.85	AV	23.00	150	Horizontal	Pass
4	5191.500	102.81	-2.30	74.0	-28.81	Peak	74.00	150	Horizontal	N/A
4**	5191.500	94.59	-2.30	54.0	-40.59	AV	74.00	150	Horizontal	N/A
5	7926.500	54.20	1.96	74.0	19.80	Peak	33.00	150	Horizontal	Pass
5**	7926.500	43.49	1.96	54.0	10.51	AV	33.00	150	Horizontal	Pass
6	12645.737	48.88	-2.87	74.0	25.12	Peak	285.00	150	Horizontal	Pass
6**	12645.737	38.02	-2.87	54.0	15.98	AV	285.00	150	Horizontal	Pass

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

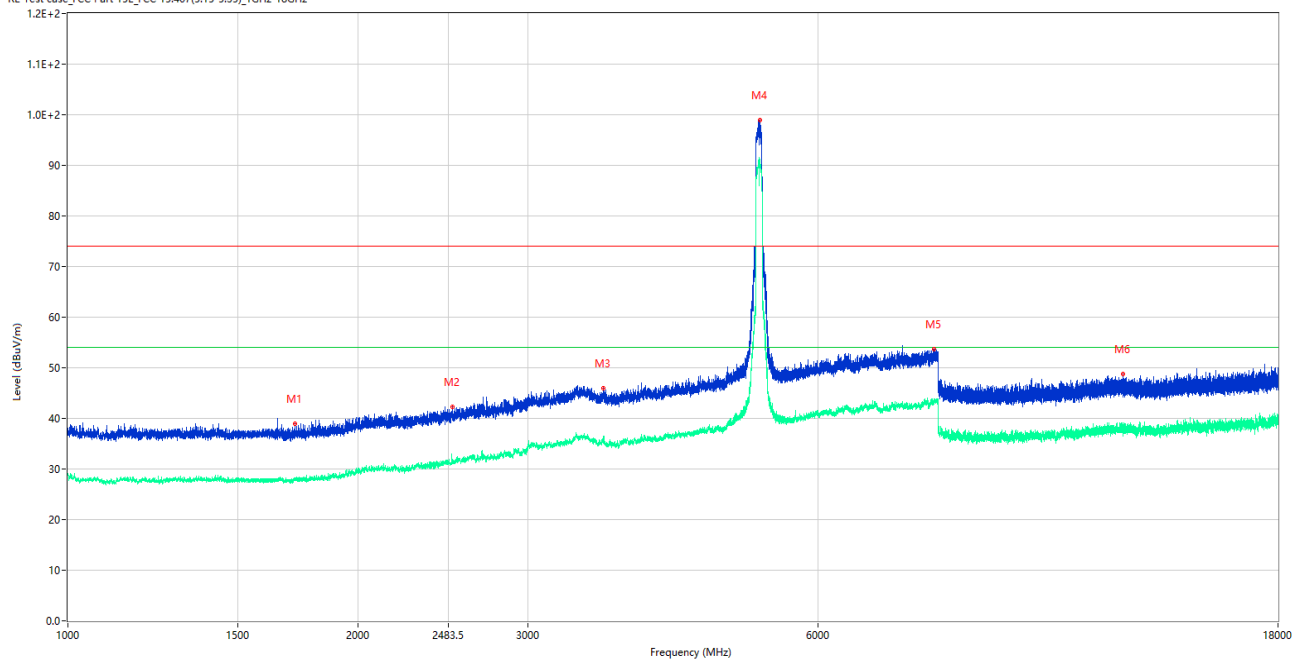
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.750	39.52	-15.71	74.0	34.48	Peak	231.00	150	Vertical	Pass
1**	1196.750	28.11	-15.71	54.0	25.89	AV	231.00	150	Vertical	Pass
2	2093.000	42.34	-13.64	74.0	31.66	Peak	149.00	150	Vertical	Pass
2**	2093.000	29.95	-13.64	54.0	24.05	AV	149.00	150	Vertical	Pass
3	3591.000	47.47	-6.18	74.0	26.53	Peak	221.00	150	Vertical	Pass
3**	3591.000	36.62	-6.18	54.0	17.38	AV	221.00	150	Vertical	Pass
4	5199.500	109.27	-2.35	74.0	-35.27	Peak	172.00	150	Vertical	N/A
4**	5199.500	100.85	-2.35	54.0	-46.85	AV	172.00	150	Vertical	N/A
5	7932.500	53.60	2.07	74.0	20.40	Peak	360.00	150	Vertical	Pass
5**	7932.500	43.36	2.07	54.0	10.64	AV	360.00	150	Vertical	Pass
6	12371.662	48.58	-2.15	74.0	25.42	Peak	0.00	150	Vertical	Pass
6**	12371.662	38.69	-2.15	54.0	15.31	AV	0.00	150	Vertical	Pass

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

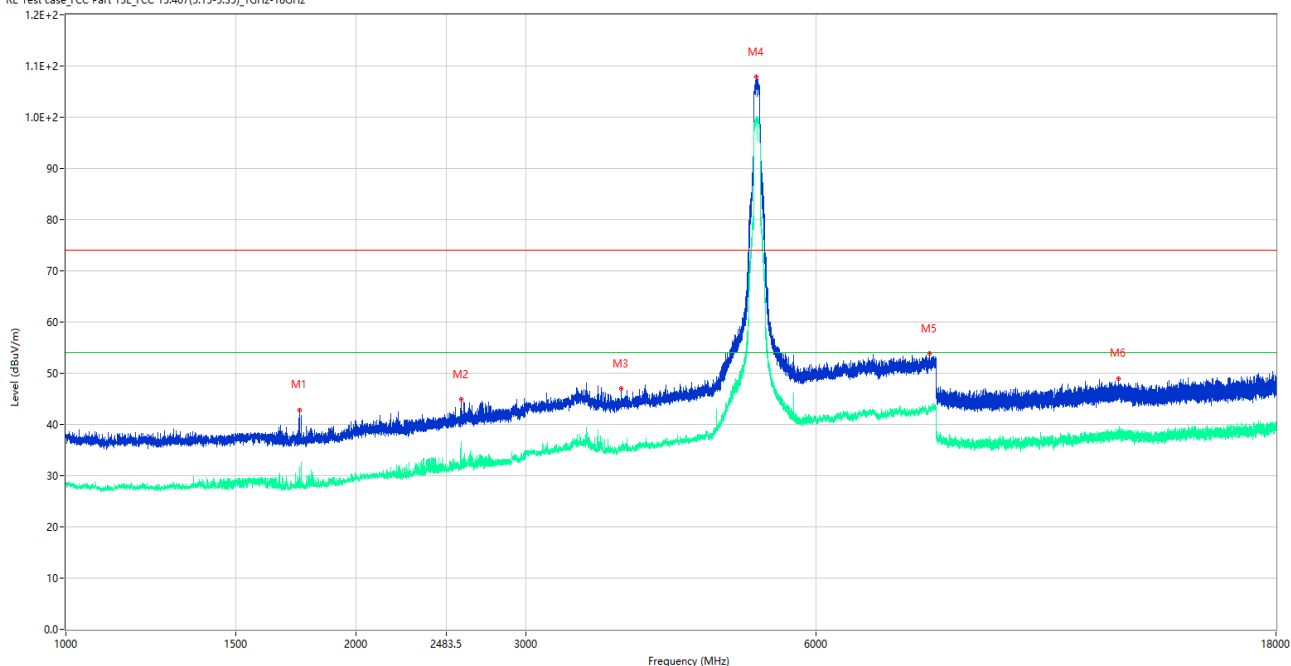
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1720.500	38.91	-16.20	74.0	35.09	Peak	56.00	150	Horizontal	Pass
1**	1720.500	27.69	-16.20	54.0	26.31	AV	56.00	150	Horizontal	Pass
2	2505.750	42.36	-11.90	74.0	31.64	Peak	92.00	150	Horizontal	Pass
2**	2505.750	31.70	-11.90	54.0	22.30	AV	92.00	150	Horizontal	Pass
3	3594.500	46.00	-5.85	74.0	28.00	Peak	0.00	150	Horizontal	Pass
3**	3594.500	35.99	-5.85	54.0	18.01	AV	0.00	150	Horizontal	Pass
4	5218.000	98.86	-2.38	74.0	-24.86	Peak	80.00	150	Horizontal	N/A
4**	5218.000	90.38	-2.38	54.0	-36.38	AV	80.00	150	Horizontal	N/A
5	7919.000	53.69	1.95	74.0	20.31	Peak	309.00	150	Horizontal	Pass
5**	7919.000	43.20	1.95	54.0	10.80	AV	309.00	150	Horizontal	Pass
6	12420.350	48.75	-1.98	74.0	25.25	Peak	215.00	150	Horizontal	Pass
6**	12420.350	38.69	-1.98	54.0	15.31	AV	215.00	150	Horizontal	Pass

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

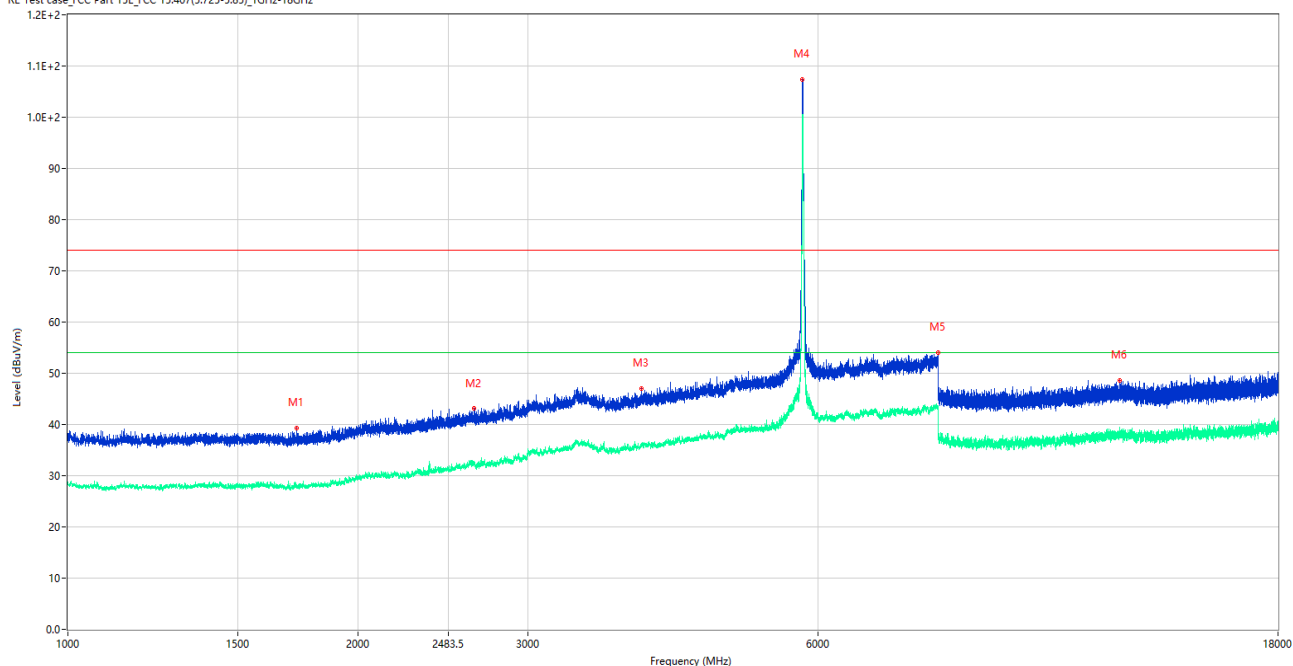
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1746.000	42.81	-16.05	74.0	31.19	Peak	247.00	150	Vertical	Pass
1**	1746.000	31.28	-16.05	54.0	22.72	AV	247.00	150	Vertical	Pass
2	2570.500	44.89	-10.99	74.0	29.11	Peak	268.00	150	Vertical	Pass
2**	2570.500	34.84	-10.99	54.0	19.16	AV	268.00	150	Vertical	Pass
3	3765.500	47.09	-4.65	74.0	26.91	Peak	284.00	150	Vertical	Pass
3**	3765.500	35.08	-4.65	54.0	18.92	AV	284.00	150	Vertical	Pass
4	5203.000	107.82	-2.37	74.0	-33.82	Peak	68.00	150	Vertical	N/A
4**	5203.000	99.19	-2.37	54.0	-45.19	AV	68.00	150	Vertical	N/A
5	7861.500	53.85	1.70	74.0	20.15	Peak	255.00	150	Vertical	Pass
5**	7861.500	43.26	1.70	54.0	10.74	AV	255.00	150	Vertical	Pass
6	12355.037	48.95	-1.89	74.0	25.05	Peak	2.00	150	Vertical	Pass
6**	12355.037	38.56	-1.89	54.0	15.44	AV	2.00	150	Vertical	Pass

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

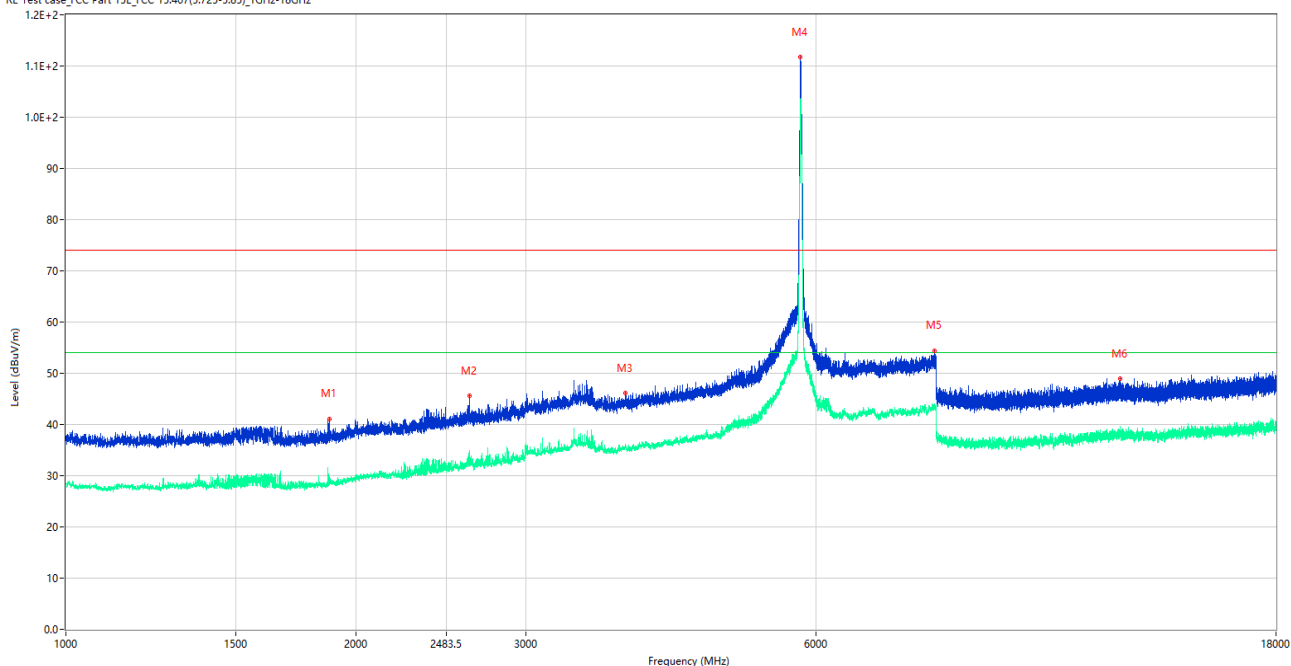
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1726.750	39.22	-16.18	74.0	34.78	Peak	237.00	150	Horizontal	Pass
1**	1726.750	28.27	-16.18	54.0	25.73	AV	237.00	150	Horizontal	Pass
2	2637.250	43.09	-10.09	74.0	30.91	Peak	317.00	150	Horizontal	Pass
2**	2637.250	32.39	-10.09	54.0	21.61	AV	317.00	150	Horizontal	Pass
3	3933.000	47.00	-3.56	74.0	27.00	Peak	101.00	150	Horizontal	Pass
3**	3933.000	35.82	-3.56	54.0	18.18	AV	101.00	150	Horizontal	Pass
4	5780.000	107.39	-1.51	74.0	-33.39	Peak	191.00	150	Horizontal	N/A
4**	5780.000	98.42	-1.51	54.0	-44.42	AV	191.00	150	Horizontal	N/A
5	7999.000	54.04	1.88	74.0	19.96	Peak	170.00	150	Horizontal	Pass
5**	7999.000	43.60	1.88	54.0	10.40	AV	170.00	150	Horizontal	Pass
6	12328.200	48.66	-2.09	74.0	25.34	Peak	234.00	150	Horizontal	Pass
6**	12328.200	38.10	-2.09	54.0	15.90	AV	234.00	150	Horizontal	Pass

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

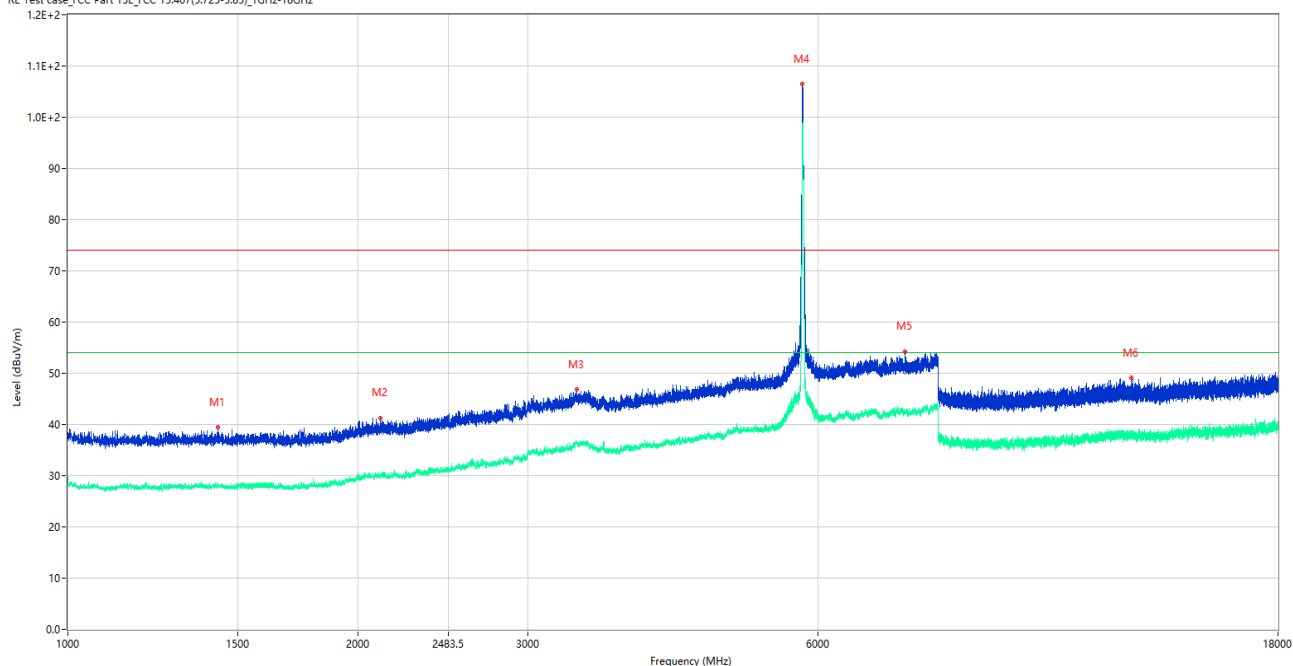
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1875.000	41.02	-15.50	74.0	32.98	Peak	264.00	150	Vertical	Pass
1**	1875.000	29.77	-15.50	54.0	24.23	AV	264.00	150	Vertical	Pass
2	2622.250	45.56	-10.02	74.0	28.44	Peak	285.00	150	Vertical	Pass
2**	2622.250	34.60	-10.02	54.0	19.40	AV	285.00	150	Vertical	Pass
3	3804.000	46.16	-4.38	74.0	27.84	Peak	5.00	150	Vertical	Pass
3**	3804.000	35.91	-4.38	54.0	18.09	AV	5.00	150	Vertical	Pass
4	5778.000	111.75	-1.53	74.0	-37.75	Peak	130.00	150	Vertical	N/A
4**	5778.000	103.05	-1.53	54.0	-49.05	AV	130.00	150	Vertical	N/A
5	7966.500	54.43	2.23	74.0	19.57	Peak	0.00	150	Vertical	Pass
5**	7966.500	43.47	2.23	54.0	10.53	AV	0.00	150	Vertical	Pass
6	12398.026	48.89	-2.39	74.0	25.11	Peak	118.00	150	Vertical	Pass
6**	12398.026	37.80	-2.39	54.0	16.20	AV	118.00	150	Vertical	Pass

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

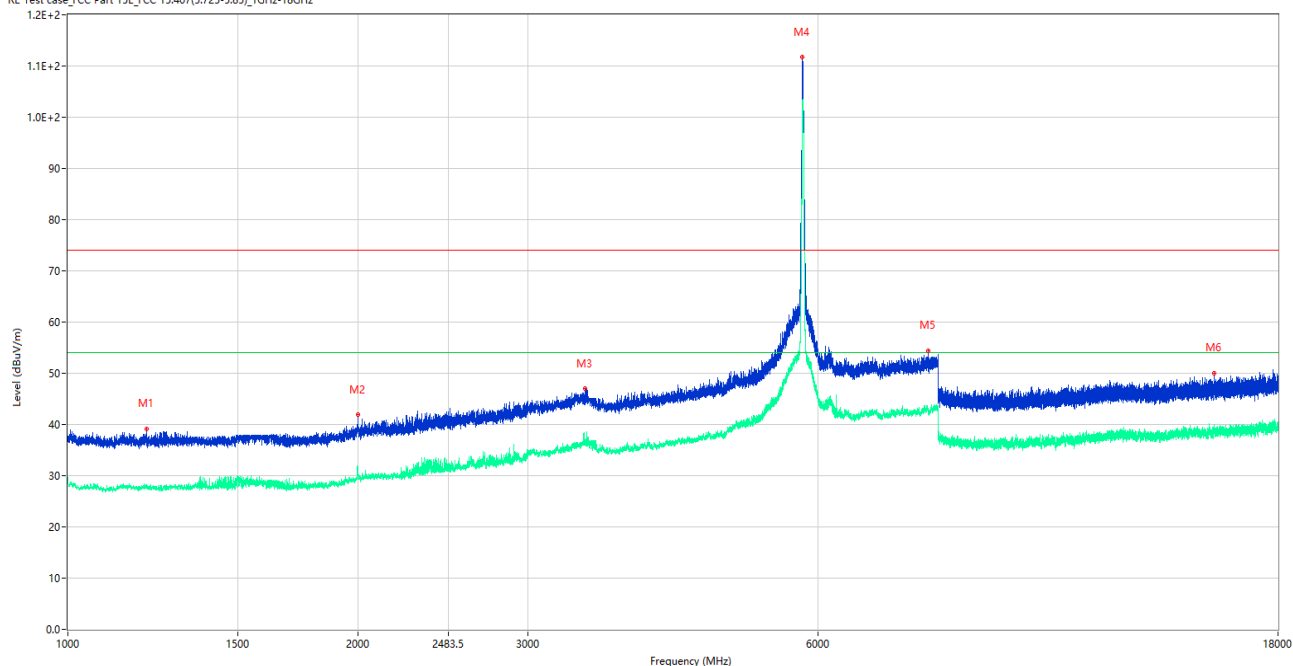
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1431.500	39.54	-15.99	74.0	34.46	Peak	62.00	150	Horizontal	Pass
1**	1431.500	27.85	-15.99	54.0	26.15	AV	62.00	150	Horizontal	Pass
2	2110.250	41.16	-13.59	74.0	32.84	Peak	108.00	150	Horizontal	Pass
2**	2110.250	30.20	-13.59	54.0	23.80	AV	108.00	150	Horizontal	Pass
3	3374.500	46.81	-4.81	74.0	27.19	Peak	59.00	150	Horizontal	Pass
3**	3374.500	36.46	-4.81	54.0	17.54	AV	59.00	150	Horizontal	Pass
4	5783.000	106.45	-1.53	74.0	-32.45	Peak	168.00	150	Horizontal	N/A
4**	5783.000	98.45	-1.53	54.0	-44.45	AV	168.00	150	Horizontal	N/A
5	7382.000	54.24	0.82	74.0	19.76	Peak	325.00	150	Horizontal	Pass
5**	7382.000	42.60	0.82	54.0	11.40	AV	325.00	150	Horizontal	Pass
6	12689.438	49.09	-2.99	74.0	24.91	Peak	99.00	150	Horizontal	Pass
6**	12689.438	37.70	-2.99	54.0	16.30	AV	99.00	150	Horizontal	Pass

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

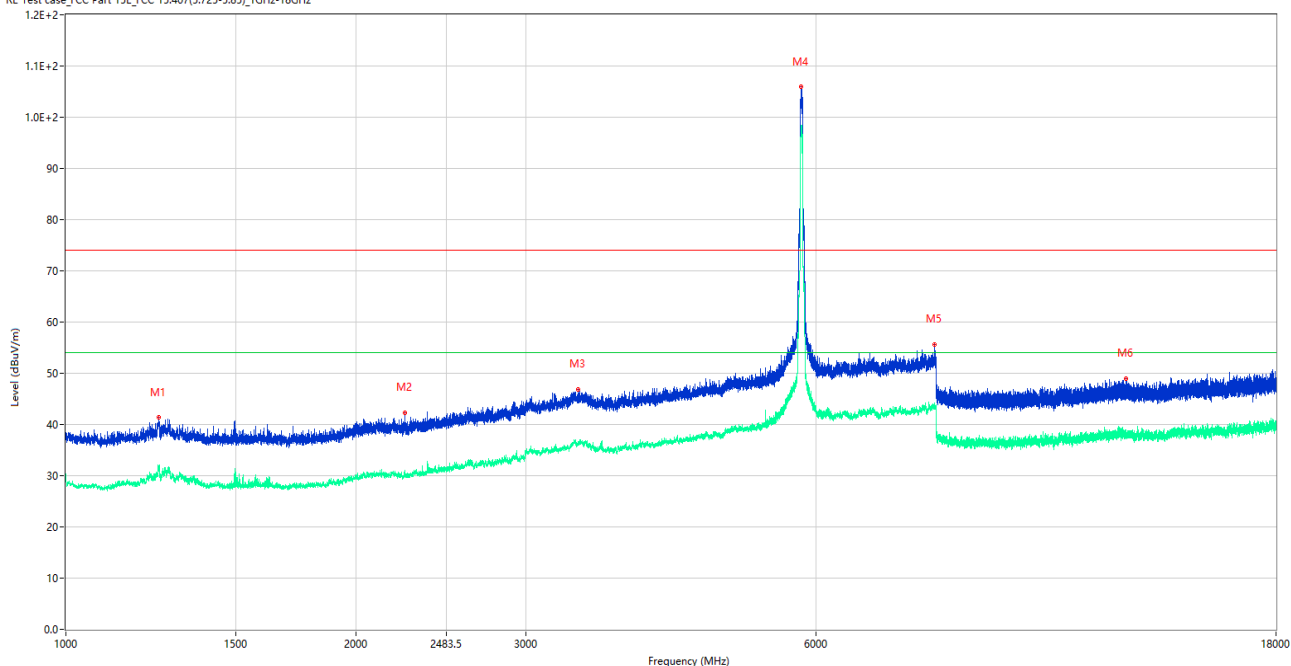
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1207.250	39.11	-15.82	74.0	34.89	Peak	283.00	150	Vertical	Pass
1**	1207.250	28.28	-15.82	54.0	25.72	AV	283.00	150	Vertical	Pass
2	1999.500	42.02	-14.32	74.0	31.98	Peak	234.00	150	Vertical	Pass
2**	1999.500	30.28	-14.32	54.0	23.72	AV	234.00	150	Vertical	Pass
3	3442.000	47.01	-5.33	74.0	26.99	Peak	270.00	150	Vertical	Pass
3**	3442.000	36.62	-5.33	54.0	17.38	AV	270.00	150	Vertical	Pass
4	5782.500	111.72	-1.53	74.0	-37.72	Peak	80.00	150	Vertical	N/A
4**	5782.500	103.04	-1.53	54.0	-49.04	AV	80.00	150	Vertical	N/A
5	7802.000	54.40	1.52	74.0	19.60	Peak	149.00	150	Vertical	Pass
5**	7802.000	42.92	1.52	54.0	11.08	AV	149.00	150	Vertical	Pass
6	15445.349	49.96	-1.74	74.0	24.04	Peak	348.00	150	Vertical	Pass
6**	15445.349	39.00	-1.74	54.0	15.00	AV	348.00	150	Vertical	Pass

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

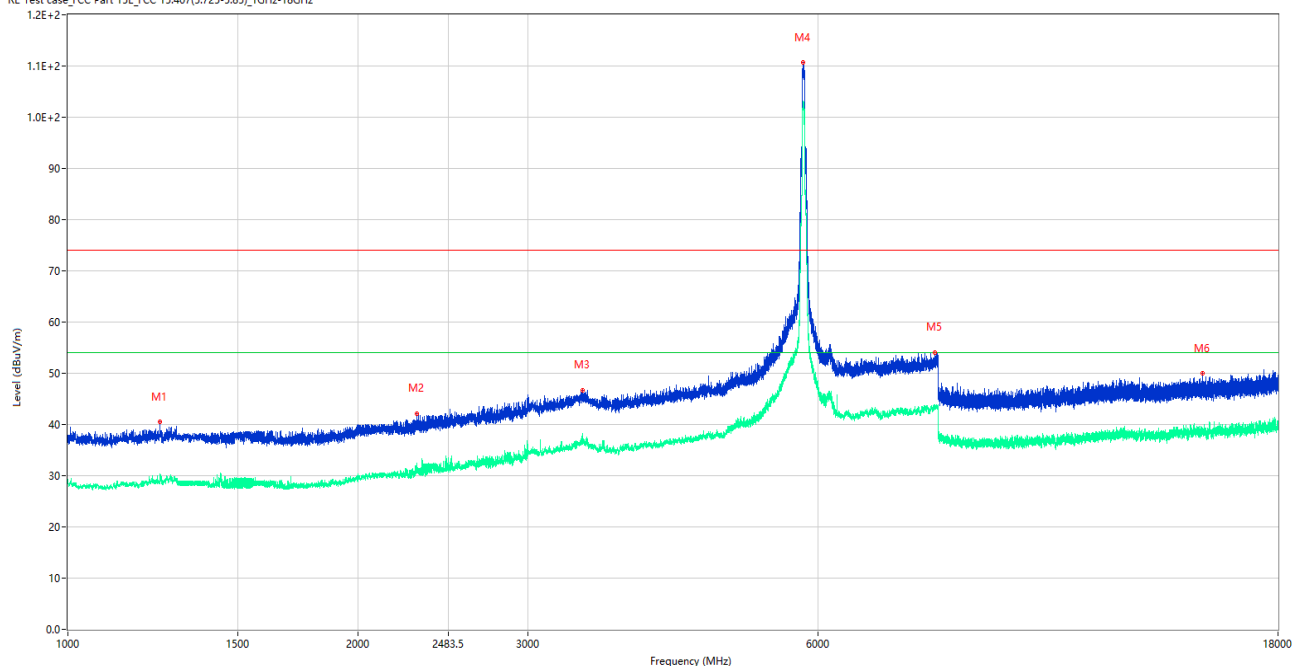
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1249.000	41.38	-16.16	74.0	32.62	Peak	328.00	150	Horizontal	Pass
1**	1249.000	31.51	-16.16	54.0	22.49	AV	328.00	150	Horizontal	Pass
2	2246.250	42.34	-12.83	74.0	31.66	Peak	185.00	150	Horizontal	Pass
2**	2246.250	30.26	-12.83	54.0	23.74	AV	185.00	150	Horizontal	Pass
3	3401.500	46.86	-5.60	74.0	27.14	Peak	360.00	150	Horizontal	Pass
3**	3401.500	36.33	-5.60	54.0	17.67	AV	360.00	150	Horizontal	Pass
4	5792.500	105.96	-1.51	74.0	-31.96	Peak	162.00	150	Horizontal	N/A
4**	5792.500	97.85	-1.51	54.0	-43.85	AV	162.00	150	Horizontal	N/A
5	7957.000	55.65	2.30	74.0	18.35	Peak	348.00	150	Horizontal	Pass
5**	7957.000	43.36	2.30	54.0	10.64	AV	348.00	150	Horizontal	Pass
6	12579.237	49.02	-2.63	74.0	24.98	Peak	239.00	150	Horizontal	Pass
6**	12579.237	38.11	-2.63	54.0	15.89	AV	239.00	150	Horizontal	Pass

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

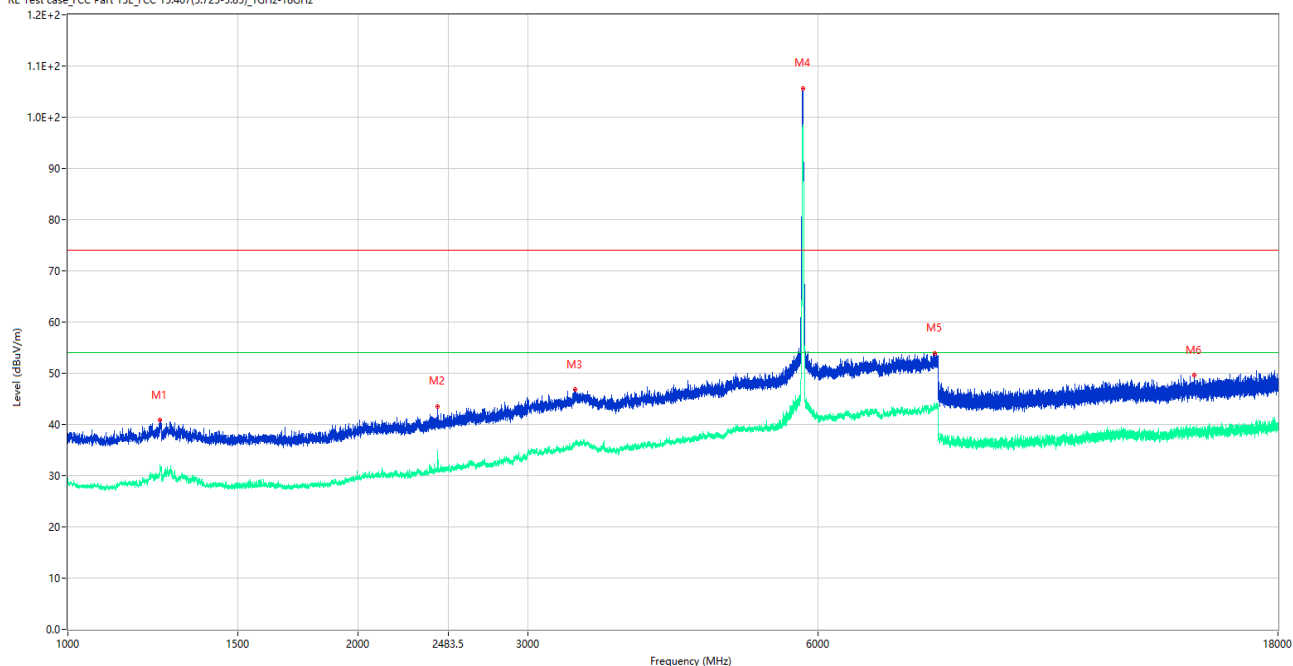
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1246.500	40.46	-16.14	74.0	33.54	Peak	323.00	150	Vertical	Pass
1**	1246.500	30.38	-16.14	54.0	23.62	AV	323.00	150	Vertical	Pass
2	2303.000	42.13	-12.88	74.0	31.87	Peak	239.00	150	Vertical	Pass
2**	2303.000	30.58	-12.88	54.0	23.42	AV	239.00	150	Vertical	Pass
3	3420.000	46.75	-5.01	74.0	27.25	Peak	292.00	150	Vertical	Pass
3**	3420.000	36.43	-5.01	54.0	17.57	AV	292.00	150	Vertical	Pass
4	5786.000	110.68	-1.53	74.0	-36.68	Peak	66.00	150	Vertical	N/A
4**	5786.000	101.90	-1.53	54.0	-47.90	AV	66.00	150	Vertical	N/A
5	7936.000	54.08	2.02	74.0	19.92	Peak	340.00	150	Vertical	Pass
5**	7936.000	43.24	2.02	54.0	10.76	AV	340.00	150	Vertical	Pass
6	15018.000	49.97	-2.70	74.0	24.03	Peak	360.00	150	Vertical	Pass
6**	15018.000	38.17	-2.70	54.0	15.83	AV	360.00	150	Vertical	Pass

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

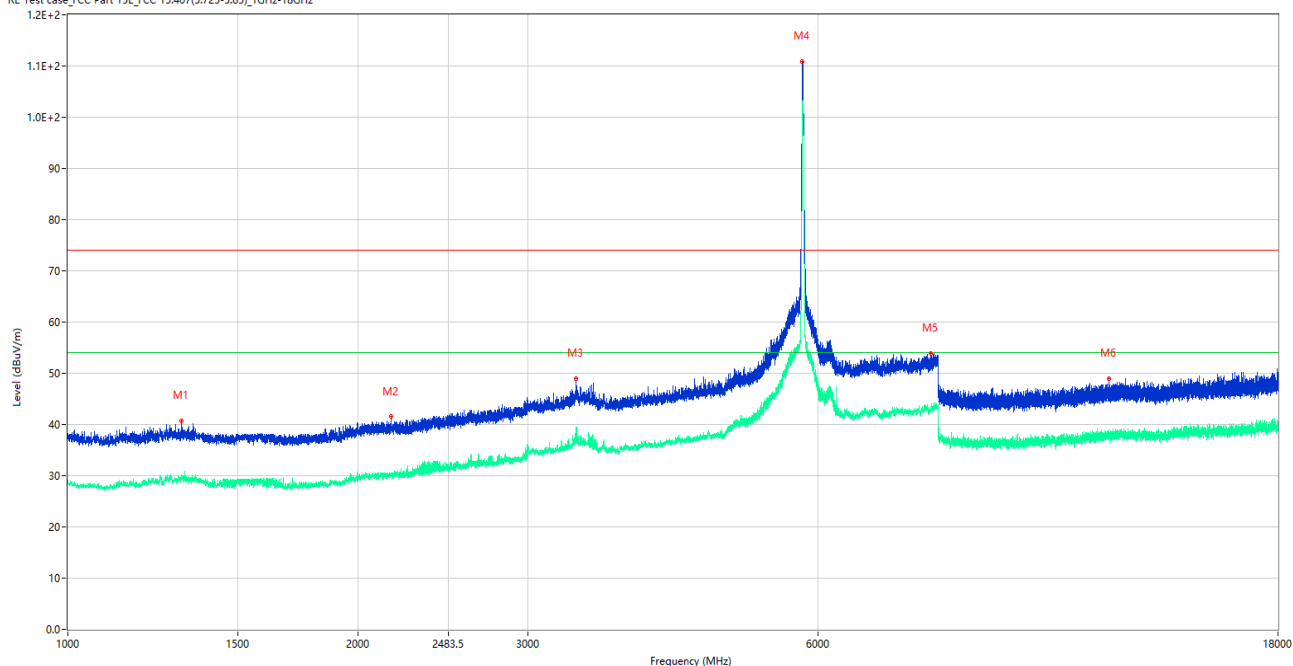
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1245.250	40.86	-16.12	74.0	33.14	Peak	322.00	150	Horizontal	Pass
1**	1245.250	30.62	-16.12	54.0	23.38	AV	322.00	150	Horizontal	Pass
2	2419.750	43.55	-12.38	74.0	30.45	Peak	203.00	150	Horizontal	Pass
2**	2419.750	31.09	-12.38	54.0	22.91	AV	203.00	150	Horizontal	Pass
3	3356.000	46.79	-6.27	74.0	27.21	Peak	90.00	150	Horizontal	Pass
3**	3356.000	36.22	-6.27	54.0	17.78	AV	90.00	150	Horizontal	Pass
4	5784.000	105.70	-1.54	74.0	-31.70	Peak	71.00	150	Horizontal	N/A
4**	5784.000	98.09	-1.54	54.0	-44.09	AV	71.00	150	Horizontal	N/A
5	7937.000	53.86	1.99	74.0	20.14	Peak	139.00	150	Horizontal	Pass
5**	7937.000	43.55	1.99	54.0	10.45	AV	139.00	150	Horizontal	Pass
6	14723.738	49.60	-1.72	74.0	24.40	Peak	0.00	150	Horizontal	Pass
6**	14723.738	39.09	-1.72	54.0	14.91	AV	0.00	150	Horizontal	Pass

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

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

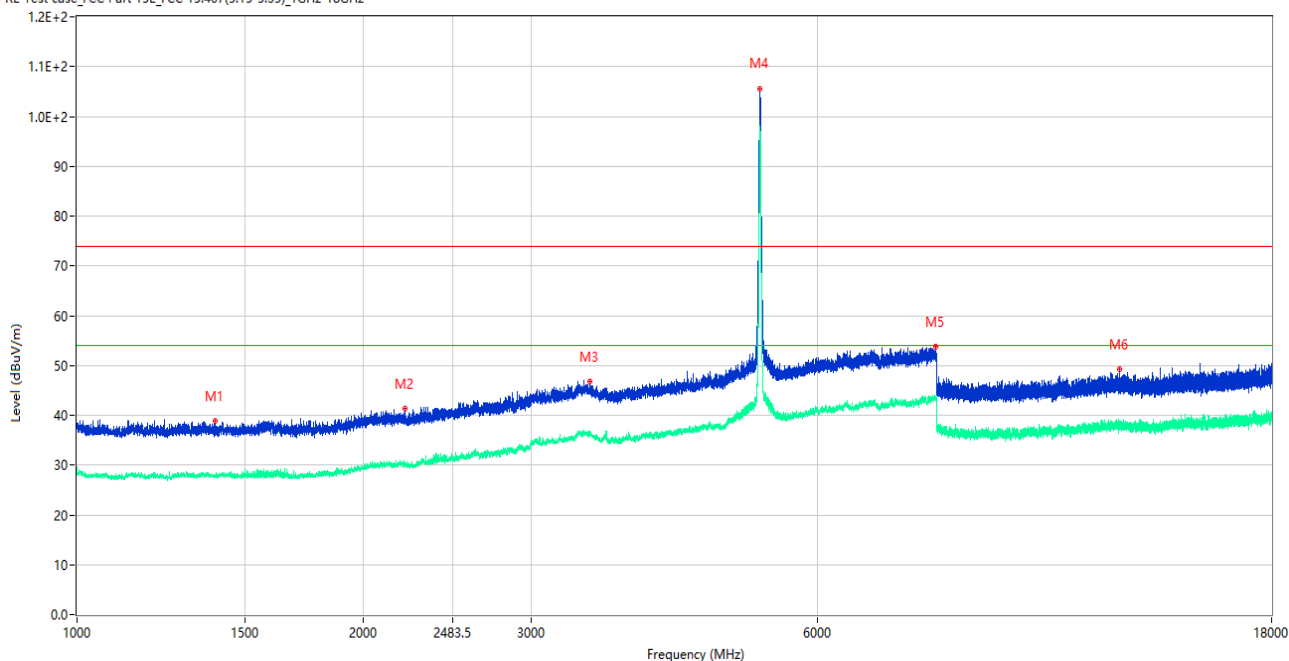


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.000	40.66	-15.81	74.0	33.34	Peak	309.00	150	Vertical	Pass
1**	1312.000	29.68	-15.81	54.0	24.32	AV	309.00	150	Vertical	Pass
2	2164.750	41.54	-13.18	74.0	32.46	Peak	0.00	150	Vertical	Pass
2**	2164.750	30.51	-13.18	54.0	23.49	AV	0.00	150	Vertical	Pass
3	3366.500	48.97	-5.05	74.0	25.03	Peak	279.00	150	Vertical	Pass
3**	3366.500	39.50	-5.05	54.0	14.50	AV	279.00	150	Vertical	Pass
4	5780.000	110.94	-1.51	74.0	-36.94	Peak	170.00	150	Vertical	N/A
4**	5780.000	102.66	-1.51	54.0	-48.66	AV	170.00	150	Vertical	N/A
5	7854.500	53.87	1.56	74.0	20.13	Peak	360.00	150	Vertical	Pass
5**	7854.500	43.37	1.56	54.0	10.63	AV	360.00	150	Vertical	Pass
6	12021.826	48.95	-2.86	74.0	25.05	Peak	28.00	150	Vertical	Pass
6**	12021.826	38.70	-2.86	54.0	15.30	AV	28.00	150	Vertical	Pass

Aux. Antenna:

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

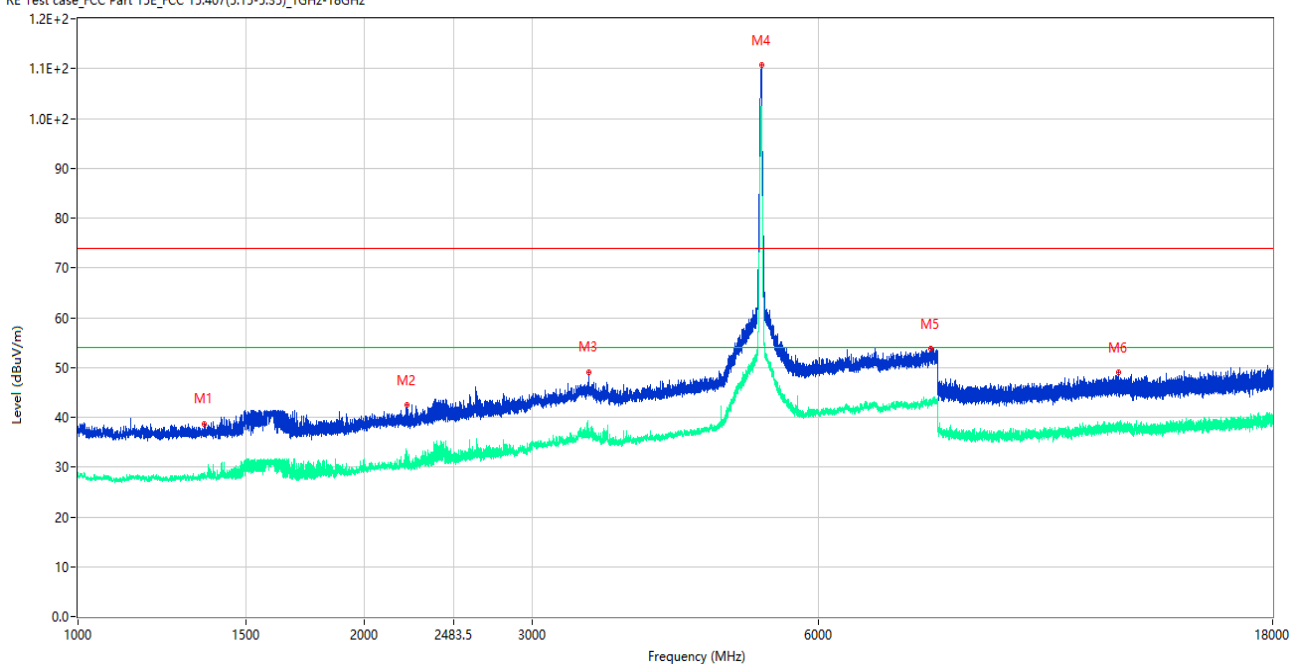
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1396.000	38.79	-16.03	74.0	35.21	Peak	108.00	150	Horizontal	Pass
1**	1396.000	27.74	-16.03	54.0	26.26	AV	108.00	150	Horizontal	Pass
2	2211.000	41.25	-13.26	74.0	32.75	Peak	360.00	150	Horizontal	Pass
2**	2211.000	30.12	-13.26	54.0	23.88	AV	360.00	150	Horizontal	Pass
3	3462.500	46.87	-5.06	74.0	27.13	Peak	243.00	150	Horizontal	Pass
3**	3462.500	36.31	-5.06	54.0	17.69	AV	243.00	150	Horizontal	Pass
4	5221.000	105.63	-2.36	74.0	-31.63	Peak	77.00	150	Horizontal	N/A
4**	5221.000	97.17	-2.36	54.0	-43.17	AV	77.00	150	Horizontal	N/A
5	7980.500	53.72	1.95	74.0	20.28	Peak	134.00	150	Horizontal	Pass
5**	7980.500	42.97	1.95	54.0	11.03	AV	134.00	150	Horizontal	Pass
6	12466.900	49.19	-2.34	74.0	24.81	Peak	10.00	150	Horizontal	Pass
6**	12466.900	37.93	-2.34	54.0	16.07	AV	10.00	150	Horizontal	Pass

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

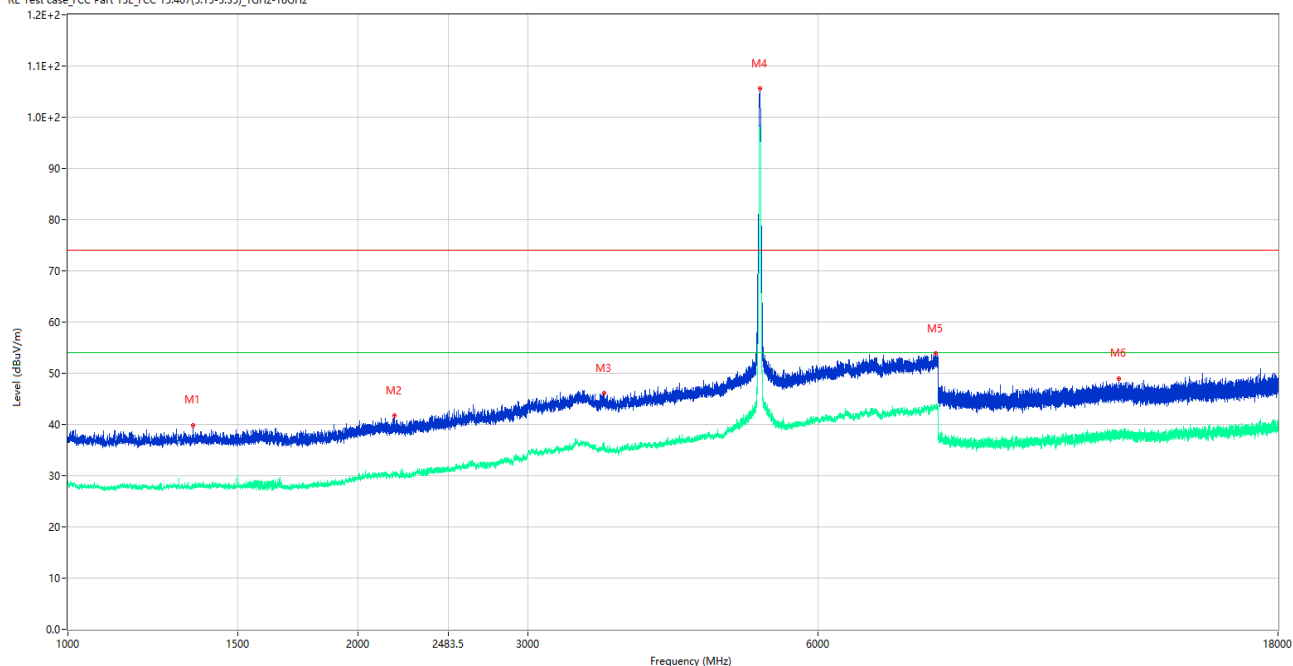
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1356.250	38.67	-15.83	74.0	35.33	Peak	252.00	150	Vertical	Pass
1**	1356.250	28.30	-15.83	54.0	25.70	AV	252.00	150	Vertical	Pass
2	2218.000	42.52	-13.11	74.0	31.48	Peak	235.00	150	Vertical	Pass
2**	2218.000	30.36	-13.11	54.0	23.64	AV	235.00	150	Vertical	Pass
3	3438.500	49.13	-5.30	74.0	24.87	Peak	303.00	150	Vertical	Pass
3**	3438.500	36.51	-5.30	54.0	17.49	AV	303.00	150	Vertical	Pass
4	5226.000	110.66	-2.32	74.0	-36.66	Peak	175.00	150	Vertical	N/A
4**	5226.000	102.31	-2.32	54.0	-48.31	AV	175.00	150	Vertical	N/A
5	7869.500	53.84	1.81	74.0	20.16	Peak	294.00	150	Vertical	Pass
5**	7869.500	43.60	1.81	54.0	10.40	AV	294.00	150	Vertical	Pass
6	12387.812	49.01	-2.47	74.0	24.99	Peak	309.00	150	Vertical	Pass
6**	12387.812	38.07	-2.47	54.0	15.93	AV	309.00	150	Vertical	Pass

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

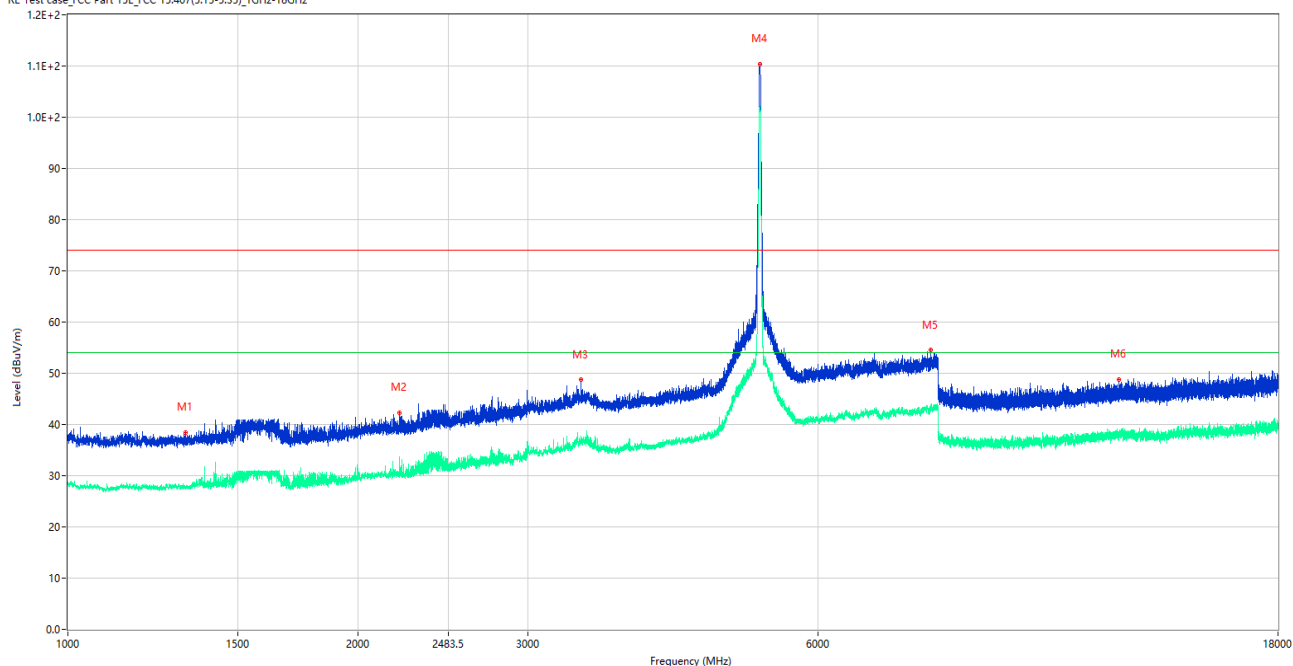
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1349.500	39.78	-15.96	74.0	34.22	Peak	186.00	150	Horizontal	Pass
1**	1349.500	28.32	-15.96	54.0	25.68	AV	186.00	150	Horizontal	Pass
2	2183.000	41.72	-13.04	74.0	32.28	Peak	53.00	150	Horizontal	Pass
2**	2183.000	30.38	-13.04	54.0	23.62	AV	53.00	150	Horizontal	Pass
3	3597.000	46.06	-5.11	74.0	27.94	Peak	280.00	150	Horizontal	Pass
3**	3597.000	36.41	-5.11	54.0	17.59	AV	280.00	150	Horizontal	Pass
4	5222.500	105.61	-2.36	74.0	-31.61	Peak	74.00	150	Horizontal	N/A
4**	5222.500	97.54	-2.36	54.0	-43.54	AV	74.00	150	Horizontal	N/A
5	7944.000	53.81	1.89	74.0	20.19	Peak	45.00	150	Horizontal	Pass
5**	7944.000	43.27	1.89	54.0	10.73	AV	45.00	150	Horizontal	Pass
6	12308.250	48.98	-2.15	74.0	25.02	Peak	0.00	150	Horizontal	Pass
6**	12308.250	38.15	-2.15	54.0	15.85	AV	0.00	150	Horizontal	Pass

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

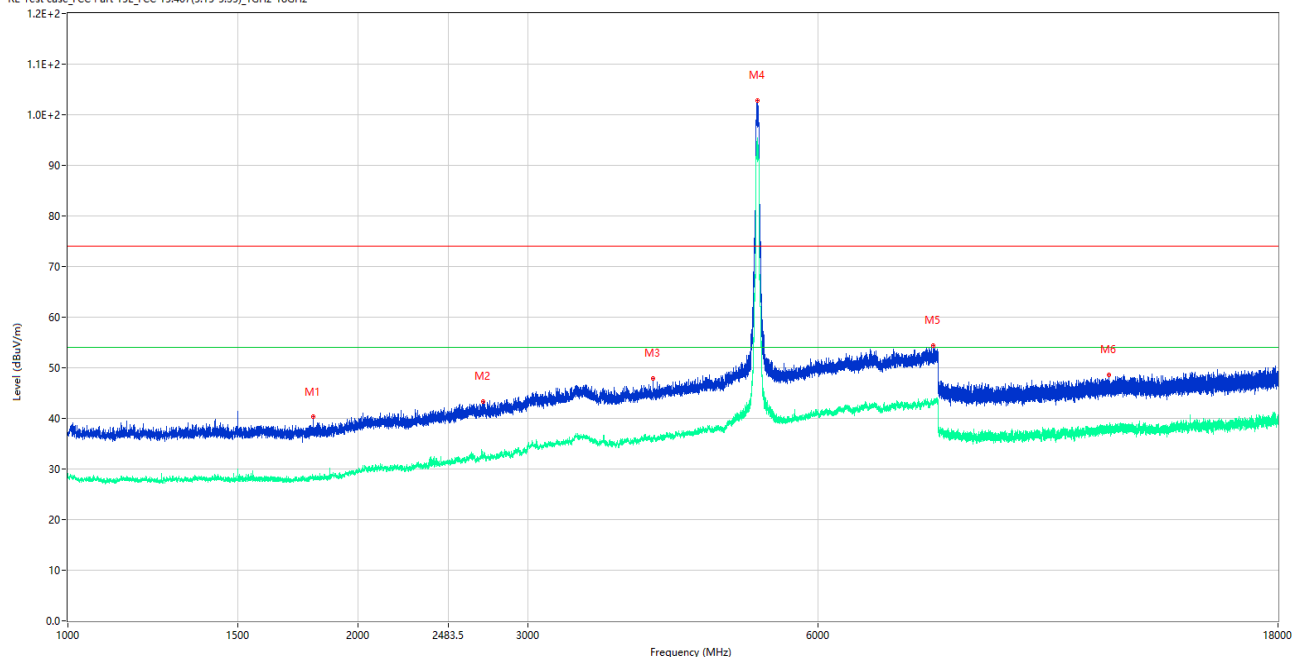
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1323.500	38.35	-15.87	74.0	35.65	Peak	355.00	150	Vertical	Pass
1**	1323.500	27.98	-15.87	54.0	26.02	AV	355.00	150	Vertical	Pass
2	2207.250	42.27	-13.32	74.0	31.73	Peak	279.00	150	Vertical	Pass
2**	2207.250	33.65	-13.32	54.0	20.35	AV	279.00	150	Vertical	Pass
3	3404.500	48.68	-5.48	74.0	25.32	Peak	310.00	150	Vertical	Pass
3**	3404.500	37.28	-5.48	54.0	16.72	AV	310.00	150	Vertical	Pass
4	5220.500	110.40	-2.36	74.0	-36.40	Peak	65.00	150	Vertical	N/A
4**	5220.500	101.06	-2.36	54.0	-47.06	AV	65.00	150	Vertical	N/A
5	7852.000	54.53	1.49	74.0	19.47	Peak	182.00	150	Vertical	Pass
5**	7852.000	42.91	1.49	54.0	11.09	AV	182.00	150	Vertical	Pass
6	12307.299	48.73	-2.23	74.0	25.27	Peak	27.00	150	Vertical	Pass
6**	12307.299	37.71	-2.23	54.0	16.29	AV	27.00	150	Vertical	Pass

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

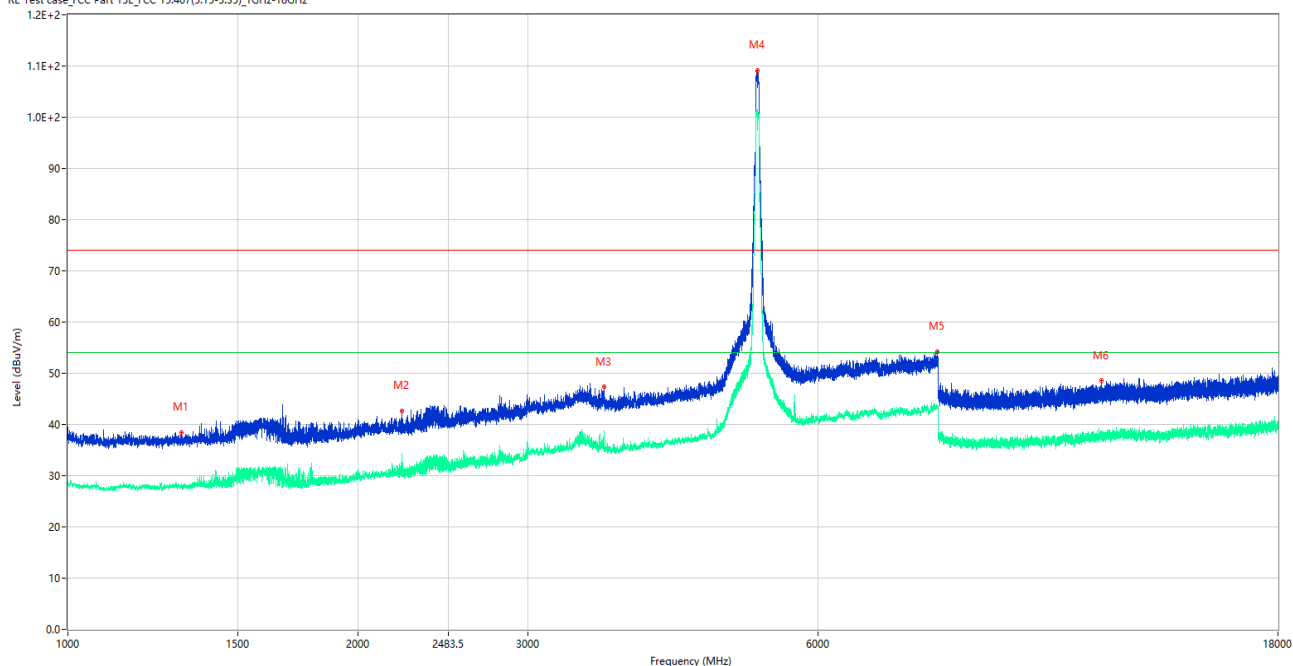
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1796.750	40.28	-15.69	74.0	33.72	Peak	50.00	150	Horizontal	Pass
1**	1796.750	28.16	-15.69	54.0	25.84	AV	50.00	150	Horizontal	Pass
2	2696.250	43.26	-10.56	74.0	30.74	Peak	28.00	150	Horizontal	Pass
2**	2696.250	32.09	-10.56	54.0	21.91	AV	28.00	150	Horizontal	Pass
3	4046.000	47.96	-4.22	74.0	26.04	Peak	360.00	150	Horizontal	Pass
3**	4046.000	35.79	-4.22	54.0	18.21	AV	360.00	150	Horizontal	Pass
4	5191.500	97.05	-2.30	74.0	-23.05	Peak	350.00	150	Horizontal	N/A
4**	5191.500	89.25	-2.30	54.0	-35.25	AV	350.00	150	Horizontal	N/A
5	7897.500	54.43	1.55	74.0	19.57	Peak	262.00	150	Horizontal	Pass
5**	7897.500	43.23	1.55	54.0	10.77	AV	262.00	150	Horizontal	Pass
6	12024.912	48.65	-3.00	74.0	25.35	Peak	193.00	150	Horizontal	Pass
6**	12024.912	38.27	-3.00	54.0	15.73	AV	193.00	150	Horizontal	Pass

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

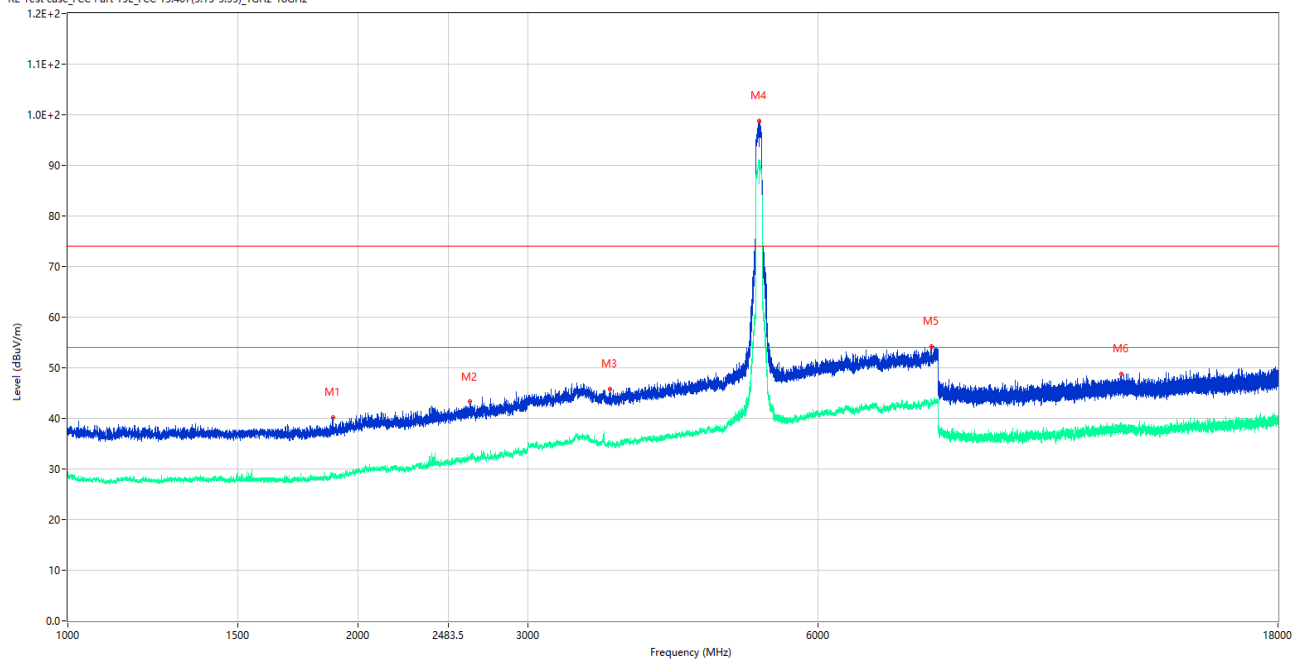
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1311.000	38.45	-15.76	74.0	35.55	Peak	184.00	150	Vertical	Pass
1**	1311.000	27.99	-15.76	54.0	26.01	AV	184.00	150	Vertical	Pass
2	2219.750	42.69	-13.08	74.0	31.31	Peak	271.00	150	Vertical	Pass
2**	2219.750	33.72	-13.08	54.0	20.28	AV	271.00	150	Vertical	Pass
3	3596.500	47.31	-5.11	74.0	26.69	Peak	272.00	150	Vertical	Pass
3**	3596.500	38.08	-5.11	54.0	15.92	AV	272.00	150	Vertical	Pass
4	5194.500	109.15	-2.32	74.0	-35.15	Peak	65.00	150	Vertical	N/A
4**	5194.500	100.99	-2.32	54.0	-46.99	AV	65.00	150	Vertical	N/A
5	7983.000	54.27	1.97	74.0	19.73	Peak	360.00	150	Vertical	Pass
5**	7983.000	43.33	1.97	54.0	10.67	AV	360.00	150	Vertical	Pass
6	11805.700	48.55	-3.58	74.0	25.45	Peak	0.00	150	Vertical	Pass
6**	11805.700	37.79	-3.58	54.0	16.21	AV	0.00	150	Vertical	Pass

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

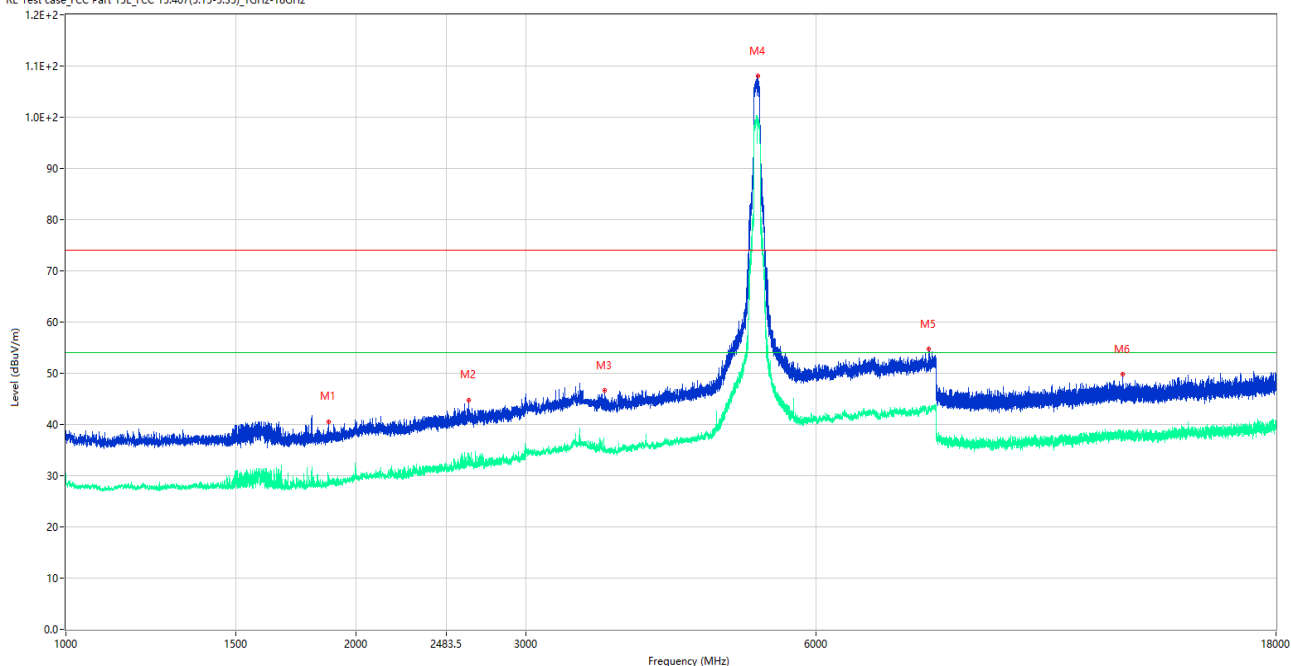
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1883.500	40.11	-15.31	74.0	33.89	Peak	352.00	150	Horizontal	Pass
1**	1883.500	28.60	-15.31	54.0	25.40	AV	352.00	150	Horizontal	Pass
2	2614.500	43.25	-10.52	74.0	30.75	Peak	32.00	150	Horizontal	Pass
2**	2614.500	32.27	-10.52	54.0	21.73	AV	32.00	150	Horizontal	Pass
3	3652.500	45.73	-5.10	74.0	28.27	Peak	218.00	150	Horizontal	Pass
3**	3652.500	35.22	-5.10	54.0	18.78	AV	218.00	150	Horizontal	Pass
4	5213.000	98.81	-2.35	74.0	-24.81	Peak	62.00	150	Horizontal	N/A
4**	5213.000	90.80	-2.35	54.0	-36.80	AV	62.00	150	Horizontal	N/A
5	7864.000	54.29	1.74	74.0	19.71	Peak	209.00	150	Horizontal	Pass
5**	7864.000	43.12	1.74	54.0	10.88	AV	209.00	150	Horizontal	Pass
6	12382.349	48.82	-2.56	74.0	25.18	Peak	309.00	150	Horizontal	Pass
6**	12382.349	37.71	-2.56	54.0	16.29	AV	309.00	150	Horizontal	Pass

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

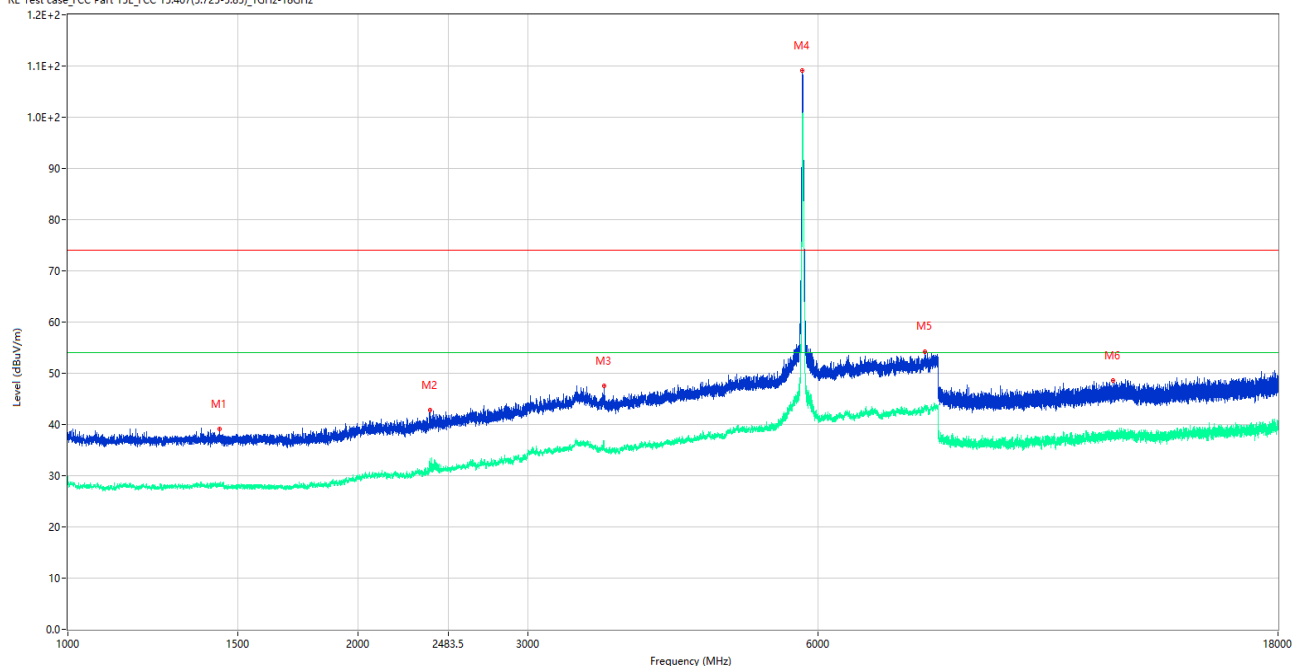
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1872.750	40.48	-15.63	74.0	33.52	Peak	315.00	150	Vertical	Pass
1**	1872.750	28.30	-15.63	54.0	25.70	AV	315.00	150	Vertical	Pass
2	2615.500	44.79	-10.45	74.0	29.21	Peak	292.00	150	Vertical	Pass
2**	2615.500	34.25	-10.45	54.0	19.75	AV	292.00	150	Vertical	Pass
3	3619.500	46.68	-5.20	74.0	27.32	Peak	288.00	150	Vertical	Pass
3**	3619.500	34.51	-5.20	54.0	19.49	AV	288.00	150	Vertical	Pass
4	5218.500	108.06	-2.37	74.0	-34.06	Peak	179.00	150	Vertical	N/A
4**	5218.500	99.55	-2.37	54.0	-45.55	AV	179.00	150	Vertical	N/A
5	7860.500	54.67	1.66	74.0	19.33	Peak	318.00	150	Vertical	Pass
5**	7860.500	43.30	1.66	54.0	10.70	AV	318.00	150	Vertical	Pass
6	12480.675	49.79	-2.60	74.0	24.21	Peak	51.00	150	Vertical	Pass
6**	12480.675	37.87	-2.60	54.0	16.13	AV	51.00	150	Vertical	Pass

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

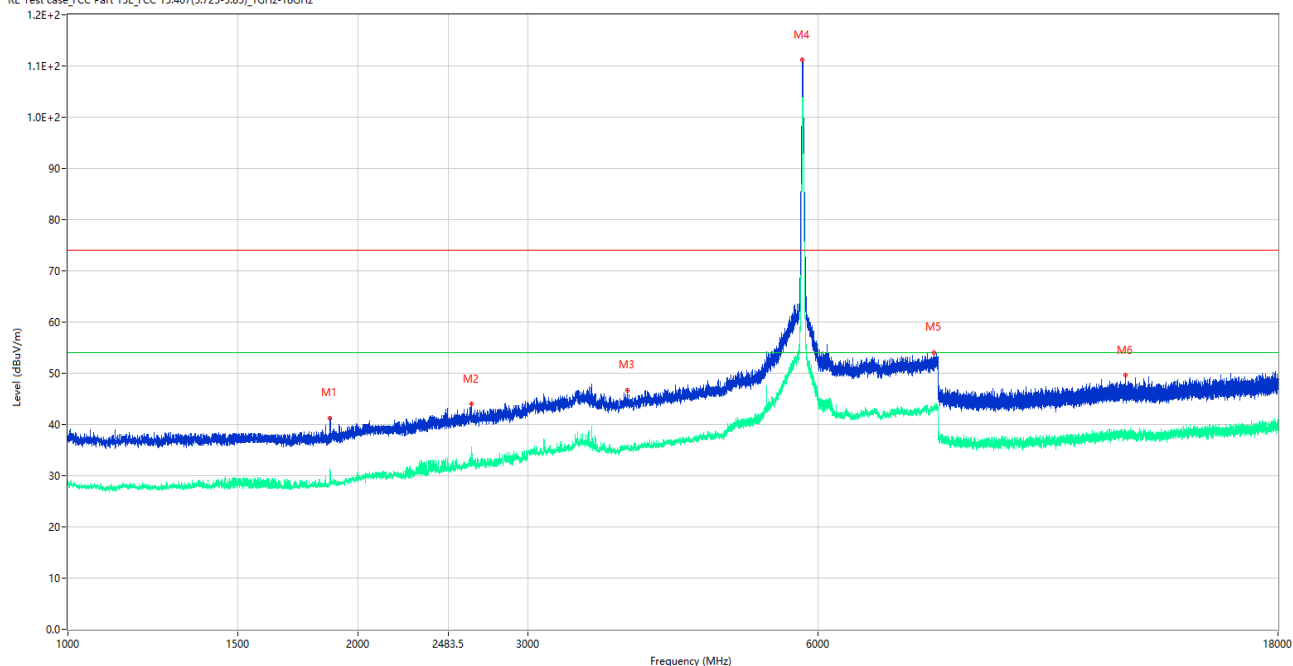
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.250	39.10	-15.97	74.0	34.90	Peak	185.00	150	Horizontal	Pass
1**	1437.250	28.11	-15.97	54.0	25.89	AV	185.00	150	Horizontal	Pass
2	2373.750	42.89	-12.04	74.0	31.11	Peak	360.00	150	Horizontal	Pass
2**	2373.750	32.17	-12.04	54.0	21.83	AV	360.00	150	Horizontal	Pass
3	3597.000	47.50	-5.11	74.0	26.50	Peak	0.00	150	Horizontal	Pass
3**	3597.000	36.22	-5.11	54.0	17.78	AV	0.00	150	Horizontal	Pass
4	5783.500	109.05	-1.54	74.0	-35.05	Peak	167.00	150	Horizontal	N/A
4**	5783.500	100.60	-1.54	54.0	-46.60	AV	167.00	150	Horizontal	N/A
5	7740.000	54.25	1.36	74.0	19.75	Peak	47.00	150	Horizontal	Pass
5**	7740.000	43.77	1.36	54.0	10.23	AV	47.00	150	Horizontal	Pass
6	12145.800	48.57	-2.94	74.0	25.43	Peak	360.00	150	Horizontal	Pass
6**	12145.800	37.24	-2.94	54.0	16.76	AV	360.00	150	Horizontal	Pass

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

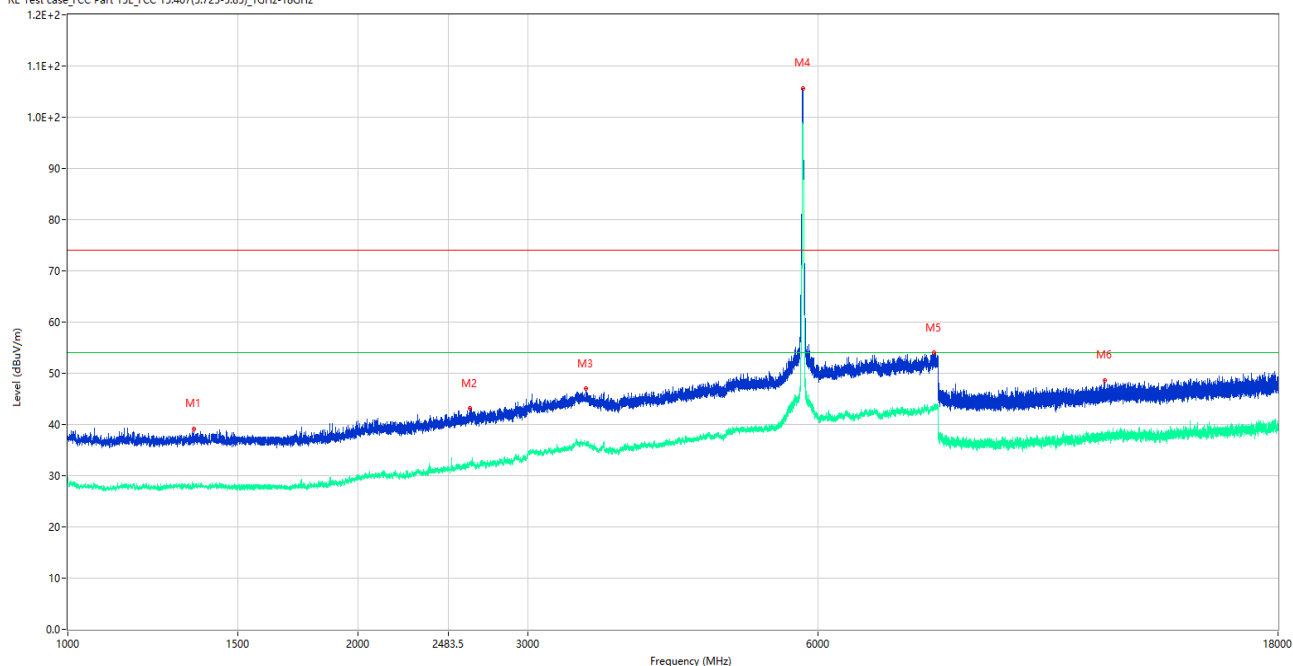
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1870.250	41.17	-15.73	74.0	32.83	Peak	315.00	150	Vertical	Pass
1**	1870.250	31.35	-15.73	54.0	22.65	AV	315.00	150	Vertical	Pass
2	2621.750	43.99	-10.04	74.0	30.01	Peak	270.00	150	Vertical	Pass
2**	2621.750	31.84	-10.04	54.0	22.16	AV	270.00	150	Vertical	Pass
3	3804.500	46.66	-4.36	74.0	27.34	Peak	278.00	150	Vertical	Pass
3**	3804.500	35.99	-4.36	54.0	18.01	AV	278.00	150	Vertical	Pass
4	5780.000	111.16	-1.51	74.0	-37.16	Peak	178.00	150	Vertical	N/A
4**	5780.000	102.99	-1.51	54.0	-48.99	AV	178.00	150	Vertical	N/A
5	7909.000	54.10	1.58	74.0	19.90	Peak	90.00	150	Vertical	Pass
5**	7909.000	43.21	1.58	54.0	10.79	AV	90.00	150	Vertical	Pass
6	12493.263	49.57	-2.65	74.0	24.43	Peak	167.00	150	Vertical	Pass
6**	12493.263	38.03	-2.65	54.0	15.97	AV	167.00	150	Vertical	Pass

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

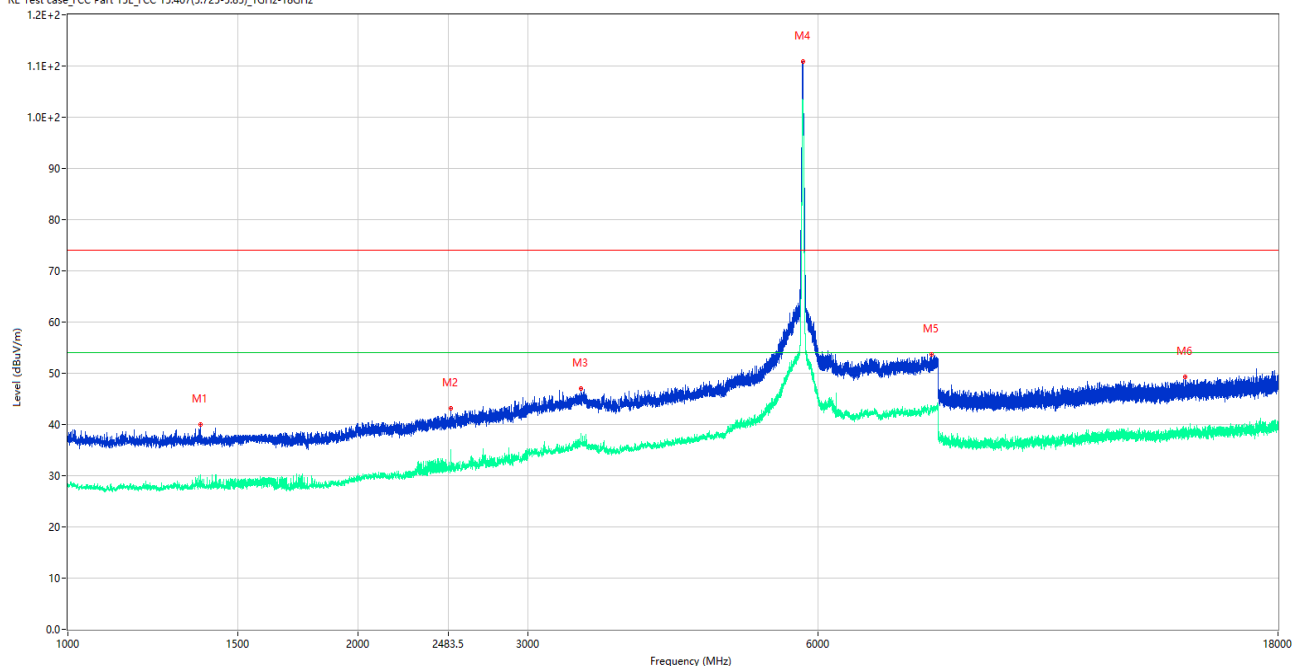
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1352.000	39.04	-15.91	74.0	34.96	Peak	123.00	150	Horizontal	Pass
1**	1352.000	28.04	-15.91	54.0	25.96	AV	123.00	150	Horizontal	Pass
2	2613.000	43.14	-10.67	74.0	30.86	Peak	280.00	150	Horizontal	Pass
2**	2613.000	32.28	-10.67	54.0	21.72	AV	280.00	150	Horizontal	Pass
3	3444.000	46.97	-5.25	74.0	27.03	Peak	329.00	150	Horizontal	Pass
3**	3444.000	35.97	-5.25	54.0	18.03	AV	329.00	150	Horizontal	Pass
4	5784.000	105.69	-1.54	74.0	-31.69	Peak	169.00	150	Horizontal	N/A
4**	5784.000	98.54	-1.54	54.0	-44.54	AV	169.00	150	Horizontal	N/A
5	7914.500	54.00	1.81	74.0	20.00	Peak	90.00	150	Horizontal	Pass
5**	7914.500	43.32	1.81	54.0	10.68	AV	90.00	150	Horizontal	Pass
6	11900.937	48.63	-3.47	74.0	25.37	Peak	213.00	150	Horizontal	Pass
6**	11900.937	38.34	-3.47	54.0	15.66	AV	213.00	150	Horizontal	Pass

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

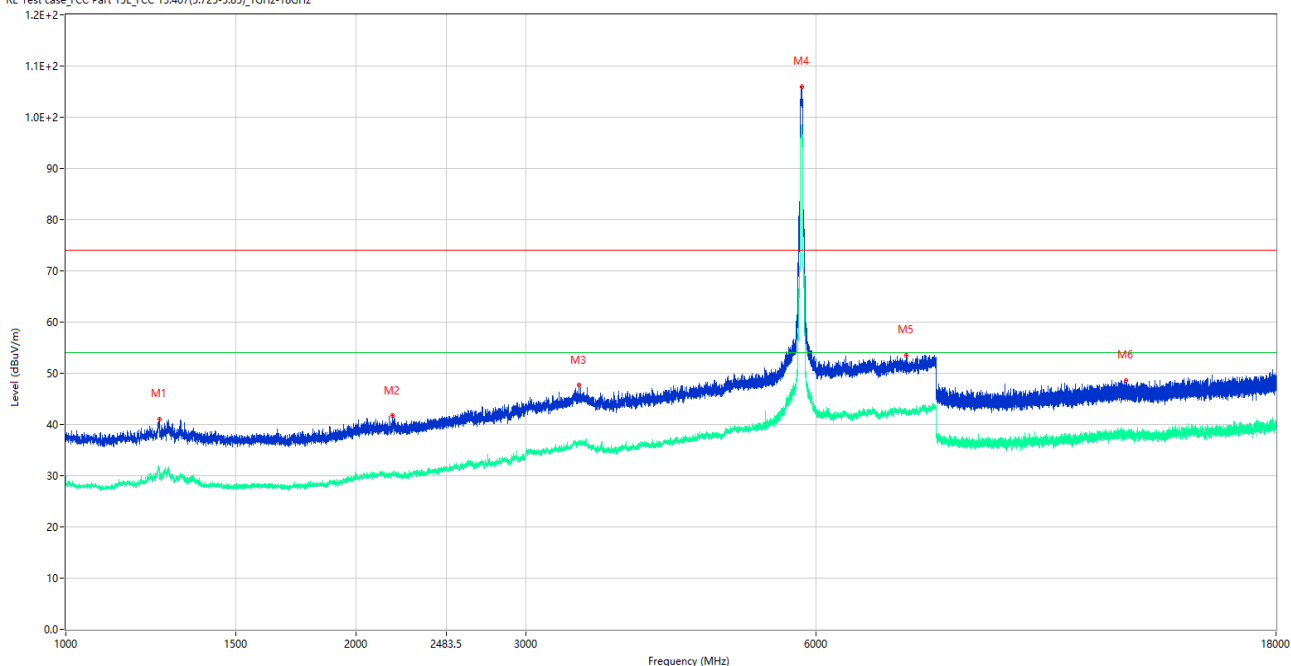
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.250	40.01	-15.98	74.0	33.99	Peak	319.00	150	Vertical	Pass
1**	1373.250	27.70	-15.98	54.0	26.30	AV	319.00	150	Vertical	Pass
2	2494.250	43.08	-11.98	74.0	30.92	Peak	291.00	150	Vertical	Pass
2**	2494.250	32.99	-11.98	54.0	21.01	AV	291.00	150	Vertical	Pass
3	3404.500	46.94	-5.48	74.0	27.06	Peak	265.00	150	Vertical	Pass
3**	3404.500	37.49	-5.48	54.0	16.51	AV	265.00	150	Vertical	Pass
4	5785.500	110.91	-1.53	74.0	-36.91	Peak	178.00	150	Vertical	N/A
4**	5785.500	102.74	-1.53	54.0	-48.74	AV	178.00	150	Vertical	N/A
5	7872.500	53.71	1.78	74.0	20.29	Peak	39.00	150	Vertical	Pass
5**	7872.500	43.17	1.78	54.0	10.83	AV	39.00	150	Vertical	Pass
6	14430.000	49.36	-3.01	74.0	24.64	Peak	14.00	150	Vertical	Pass
6**	14430.000	38.41	-3.01	54.0	15.59	AV	14.00	150	Vertical	Pass

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

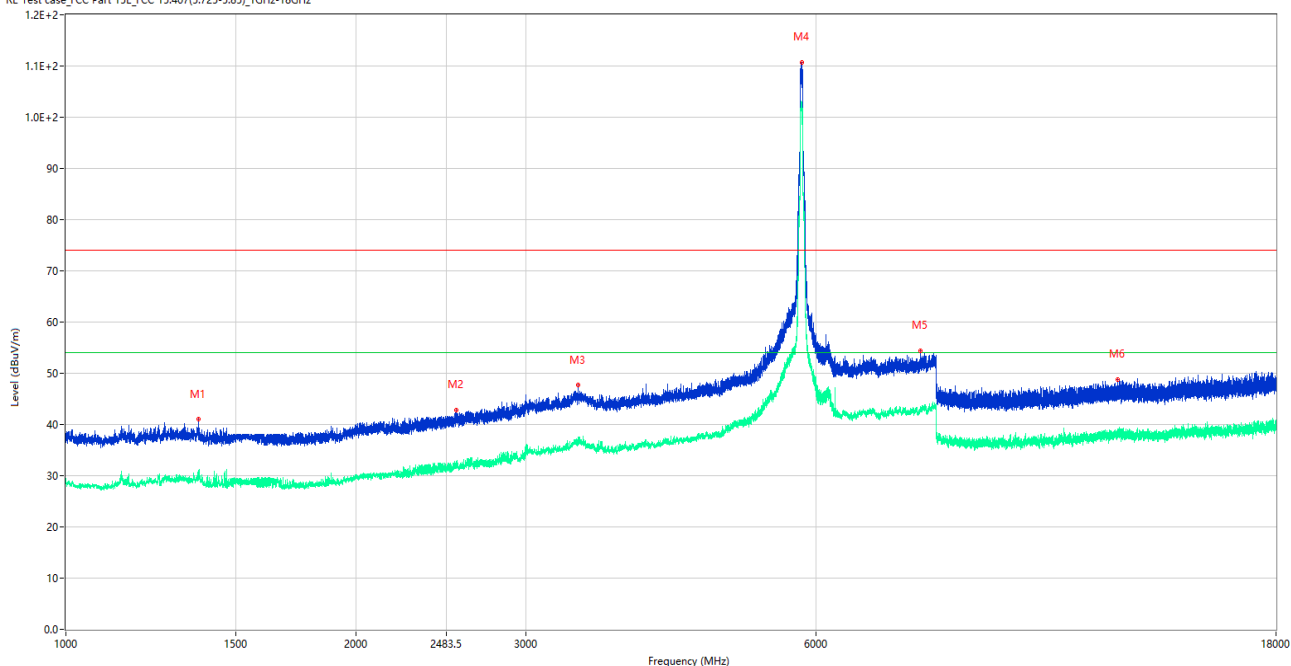
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1249.500	41.08	-16.17	74.0	32.92	Peak	326.00	150	Horizontal	Pass
1**	1249.500	31.29	-16.17	54.0	22.71	AV	326.00	150	Horizontal	Pass
2	2180.500	41.68	-12.94	74.0	32.32	Peak	359.00	150	Horizontal	Pass
2**	2180.500	30.15	-12.94	54.0	23.85	AV	359.00	150	Horizontal	Pass
3	3403.000	47.65	-5.54	74.0	26.35	Peak	331.00	150	Horizontal	Pass
3**	3403.000	36.22	-5.54	54.0	17.78	AV	331.00	150	Horizontal	Pass
4	5798.500	106.03	-1.44	74.0	-32.03	Peak	162.00	150	Horizontal	N/A
4**	5798.500	98.59	-1.44	54.0	-44.59	AV	162.00	150	Horizontal	N/A
5	7446.500	53.58	0.62	74.0	20.42	Peak	301.00	150	Horizontal	Pass
5**	7446.500	42.34	0.62	54.0	11.66	AV	301.00	150	Horizontal	Pass
6	12581.613	48.65	-2.58	74.0	25.35	Peak	120.00	150	Horizontal	Pass
6**	12581.613	38.67	-2.58	54.0	15.33	AV	120.00	150	Horizontal	Pass

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

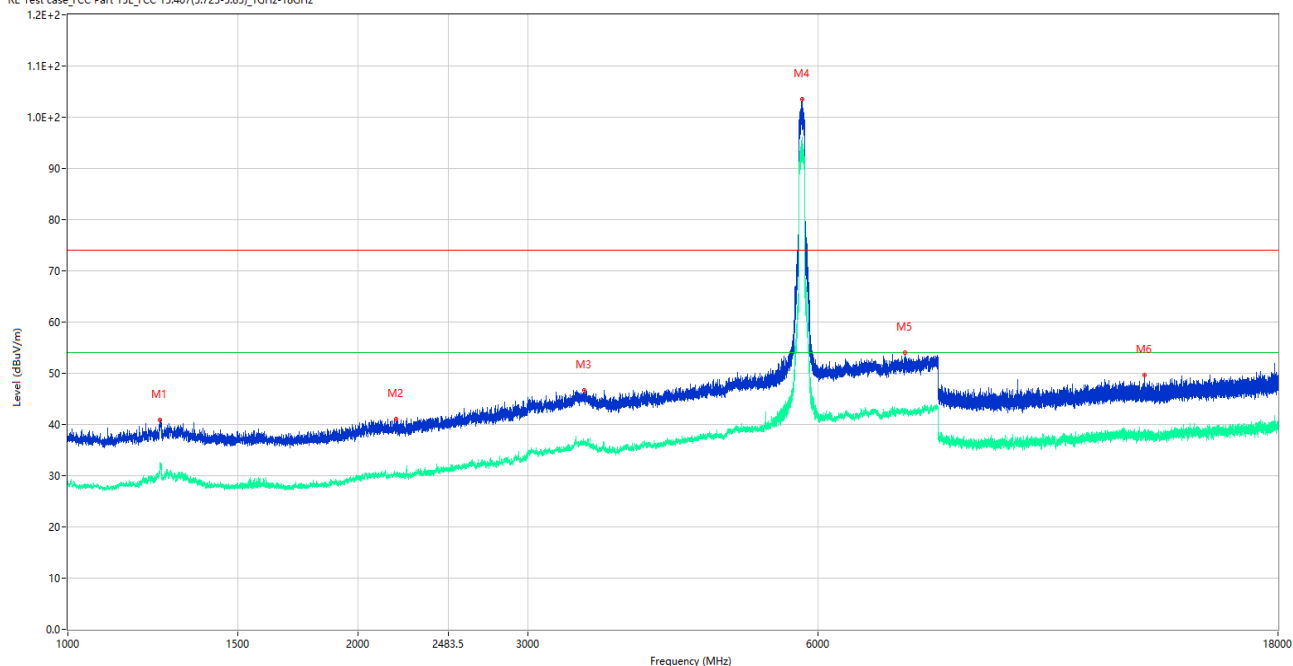
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.000	41.02	-15.97	74.0	32.98	Peak	266.00	150	Vertical	Pass
1**	1373.000	30.25	-15.97	54.0	23.75	AV	266.00	150	Vertical	Pass
2	2540.750	42.77	-11.01	74.0	31.23	Peak	297.00	150	Vertical	Pass
2**	2540.750	32.25	-11.01	54.0	21.75	AV	297.00	150	Vertical	Pass
3	3400.500	47.67	-5.65	74.0	26.33	Peak	348.00	150	Vertical	Pass
3**	3400.500	36.32	-5.65	54.0	17.68	AV	348.00	150	Vertical	Pass
4	5796.500	110.76	-1.41	74.0	-36.76	Peak	172.00	150	Vertical	N/A
4**	5796.500	102.74	-1.41	54.0	-48.74	AV	172.00	150	Vertical	N/A
5	7698.500	54.40	1.32	74.0	19.60	Peak	34.00	150	Vertical	Pass
5**	7698.500	42.94	1.32	54.0	11.06	AV	34.00	150	Vertical	Pass
6	12330.812	48.83	-2.23	74.0	25.17	Peak	350.00	150	Vertical	Pass
6**	12330.812	38.14	-2.23	54.0	15.86	AV	350.00	150	Vertical	Pass

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

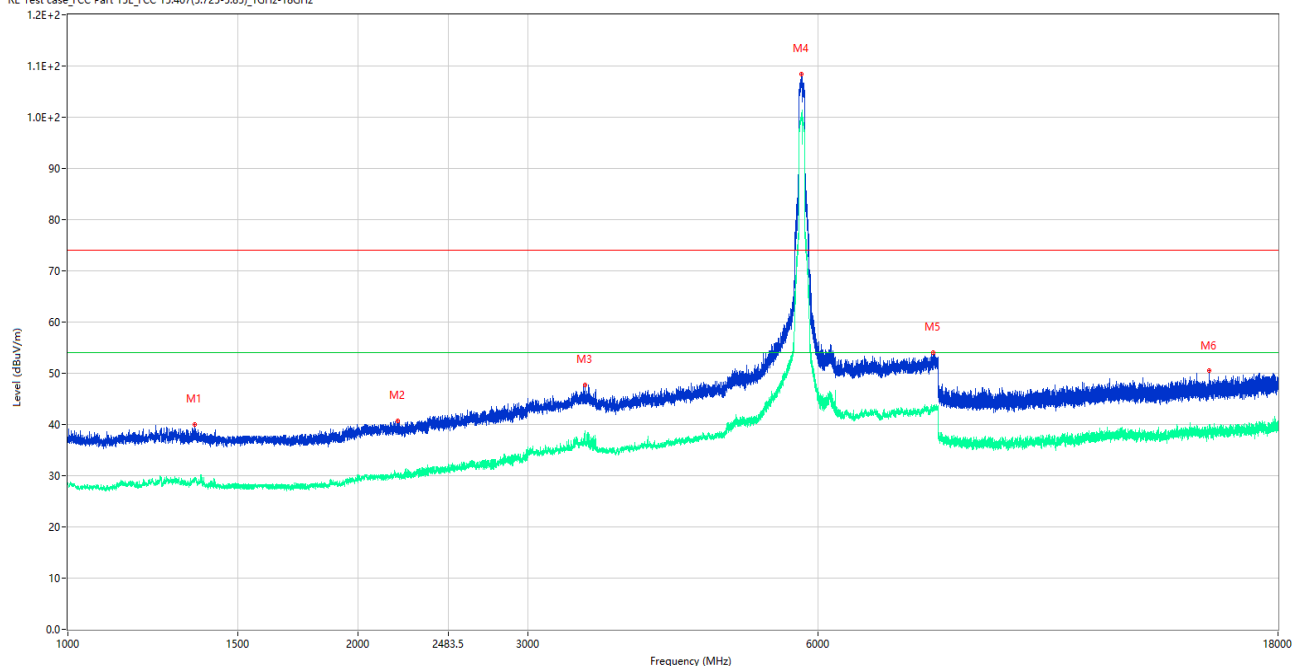
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1246.000	40.90	-16.13	74.0	33.10	Peak	319.00	150	Horizontal	Pass
1**	1246.000	31.65	-16.13	54.0	22.35	AV	319.00	150	Horizontal	Pass
2	2192.250	41.09	-13.36	74.0	32.91	Peak	188.00	150	Horizontal	Pass
2**	2192.250	30.13	-13.36	54.0	23.87	AV	188.00	150	Horizontal	Pass
3	3435.000	46.70	-5.19	74.0	27.30	Peak	191.00	150	Horizontal	Pass
3**	3435.000	36.05	-5.19	54.0	17.95	AV	191.00	150	Horizontal	Pass
4	5777.000	103.58	-1.53	74.0	-29.58	Peak	160.00	150	Horizontal	N/A
4**	5777.000	92.34	-1.53	54.0	-38.34	AV	160.00	150	Horizontal	N/A
5	7379.500	54.04	0.85	74.0	19.96	Peak	0.00	150	Horizontal	Pass
5**	7379.500	42.07	0.85	54.0	11.93	AV	0.00	150	Horizontal	Pass
6	13088.099	49.72	-1.67	74.0	24.28	Peak	0.00	150	Horizontal	Pass
6**	13088.099	37.80	-1.67	54.0	16.20	AV	0.00	150	Horizontal	Pass

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

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1353.250	40.06	-15.90	74.0	33.94	Peak	279.00	150	Vertical	Pass
1**	1353.250	29.31	-15.90	54.0	24.69	AV	279.00	150	Vertical	Pass
2	2201.000	40.70	-13.33	74.0	33.30	Peak	37.00	150	Vertical	Pass
2**	2201.000	29.72	-13.33	54.0	24.28	AV	37.00	150	Vertical	Pass
3	3438.000	47.67	-5.31	74.0	26.33	Peak	132.00	150	Vertical	Pass
3**	3438.000	37.43	-5.31	54.0	16.57	AV	132.00	150	Vertical	Pass
4	5770.500	108.44	-1.67	74.0	-34.44	Peak	93.00	150	Vertical	N/A
4**	5770.500	100.95	-1.67	54.0	-46.95	AV	93.00	150	Vertical	N/A
5	7902.000	54.04	1.58	74.0	19.96	Peak	355.00	150	Vertical	Pass
5**	7902.000	43.34	1.58	54.0	10.66	AV	355.00	150	Vertical	Pass
6	15268.163	50.49	-1.11	74.0	23.51	Peak	184.00	150	Vertical	Pass
6**	15268.163	39.35	-1.11	54.0	14.65	AV	184.00	150	Vertical	Pass

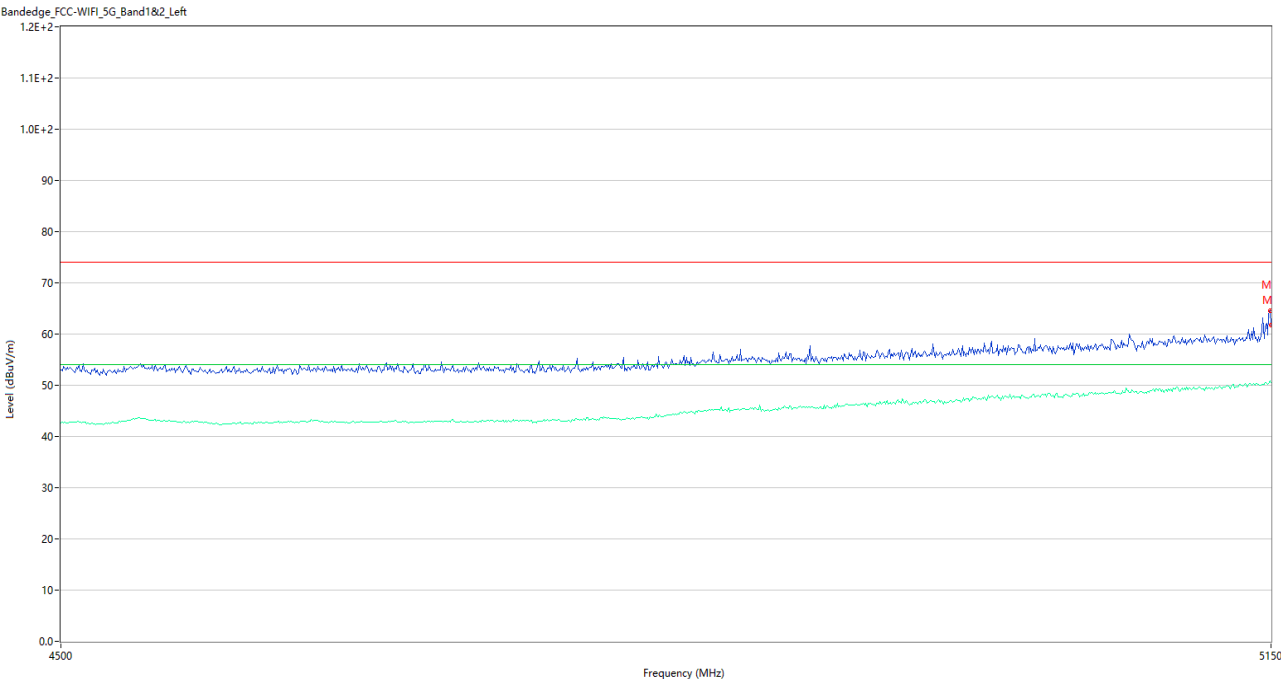
A.6.2 Band Edge (Restricted-band)

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-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

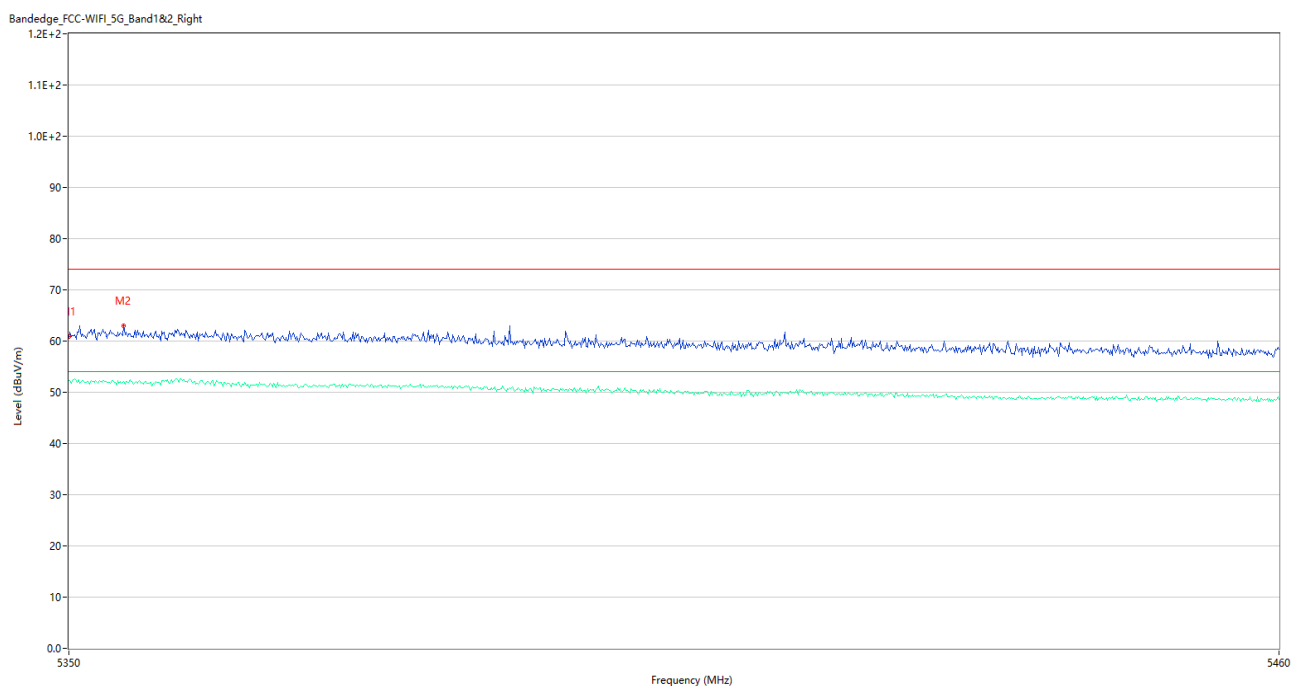
Main Antenna:

U-NII-1 11a CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	61.72	3.82	74.0	12.28	Peak	165.00	150	Vertical	Pass
1**	5150.000	50.46	3.82	54.0	3.54	AV	165.00	150	Vertical	Pass
2	5149.350	64.62	3.84	74.0	9.38	Peak	163.00	150	Vertical	Pass
2**	5149.350	50.88	3.84	54.0	3.12	AV	163.00	150	Vertical	Pass

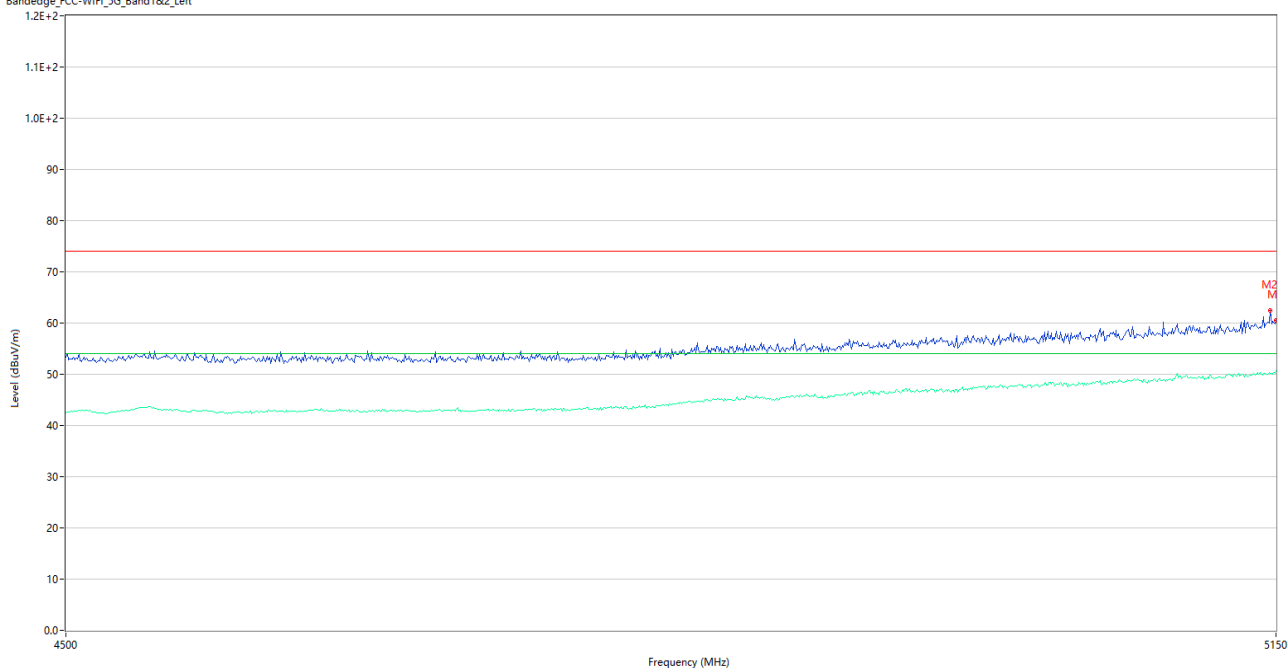
U-NII-1 11a CH48



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.84	4.04	74.0	13.16	Peak	173.00	150	Vertical	Pass
1**	5350.000	52.32	4.04	54.0	1.68	AV	173.00	150	Vertical	Pass
2	5354.950	62.93	4.14	74.0	11.07	Peak	173.00	150	Vertical	Pass
2**	5354.950	52.09	4.14	54.0	1.91	AV	173.00	150	Vertical	Pass

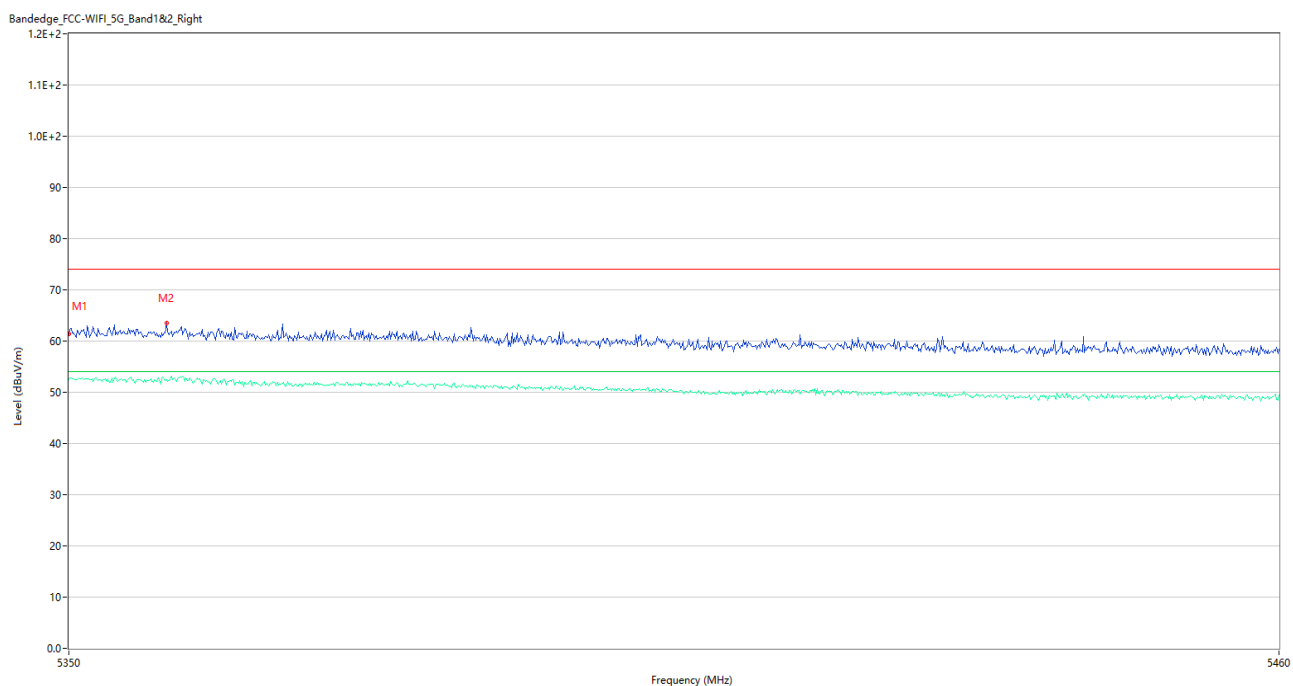
U-NII-1 11n20 CH36

Bandedge_FCC-WIFI_5G_Band1&2_Left



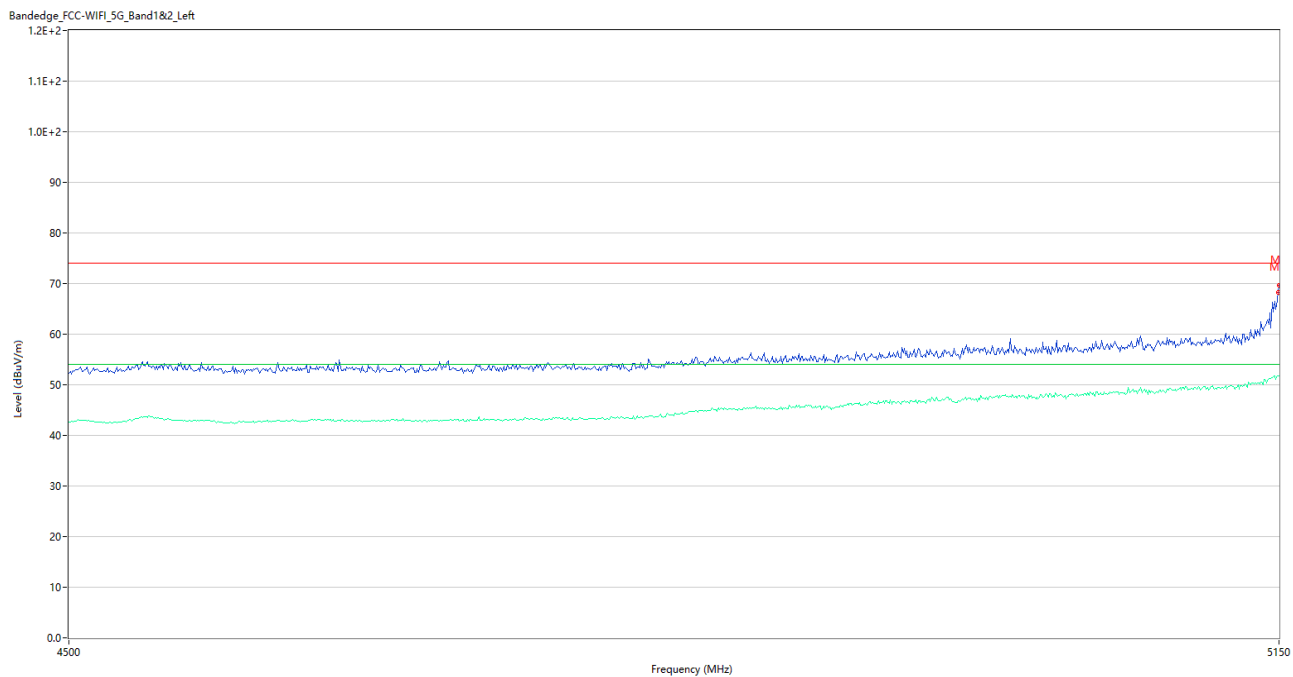
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	60.54	3.82	74.0	13.46	Peak	199.97	150	Vertical	Pass
1**	5150.000	50.68	3.82	54.0	3.32	AV	199.97	150	Vertical	Pass
2	5146.750	62.54	3.91	74.0	11.46	Peak	169.00	150	Vertical	Pass
2**	5146.750	50.25	3.91	54.0	3.75	AV	169.00	150	Vertical	Pass

U-NII-1 11n20 CH48



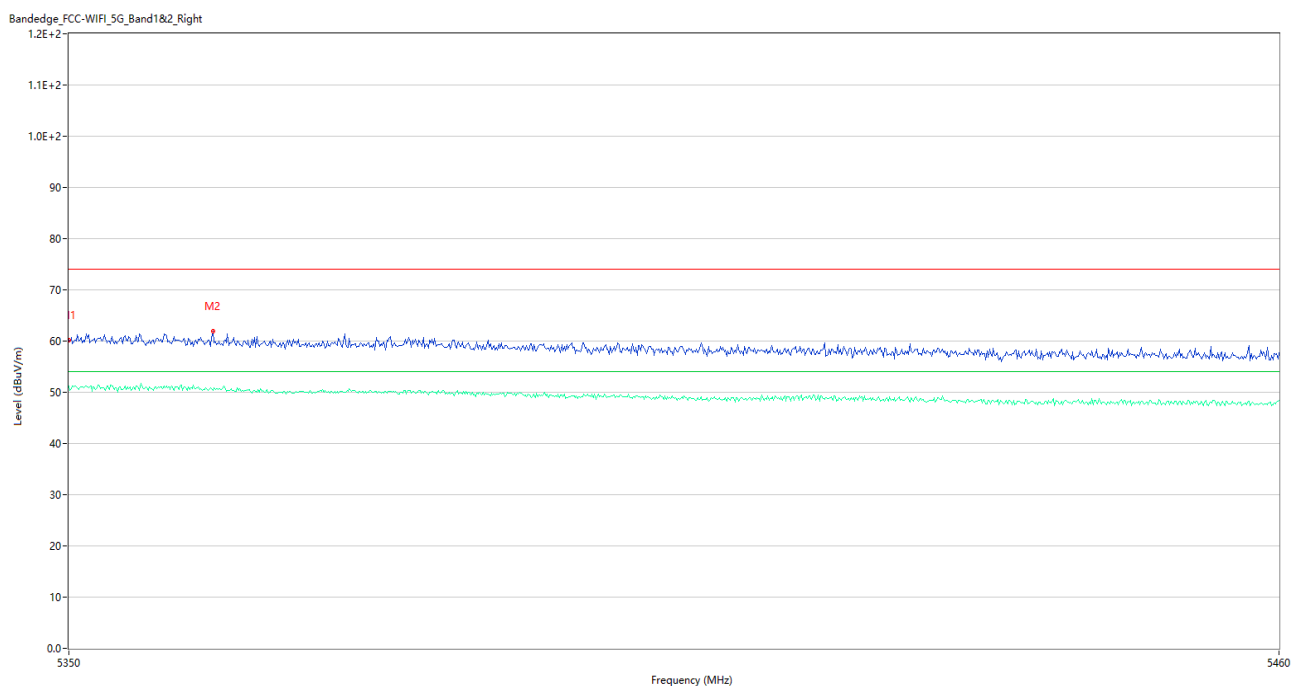
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	61.42	4.04	74.0	12.58	Peak	65.00	150	Vertical	Pass
1**	5350.000	52.45	4.04	54.0	1.55	AV	65.00	150	Vertical	Pass
2	5358.800	63.43	4.22	74.0	10.57	Peak	176.00	150	Vertical	Pass
2**	5358.800	52.38	4.22	54.0	1.62	AV	176.00	150	Vertical	Pass

U-NII-1 11n40 CH38



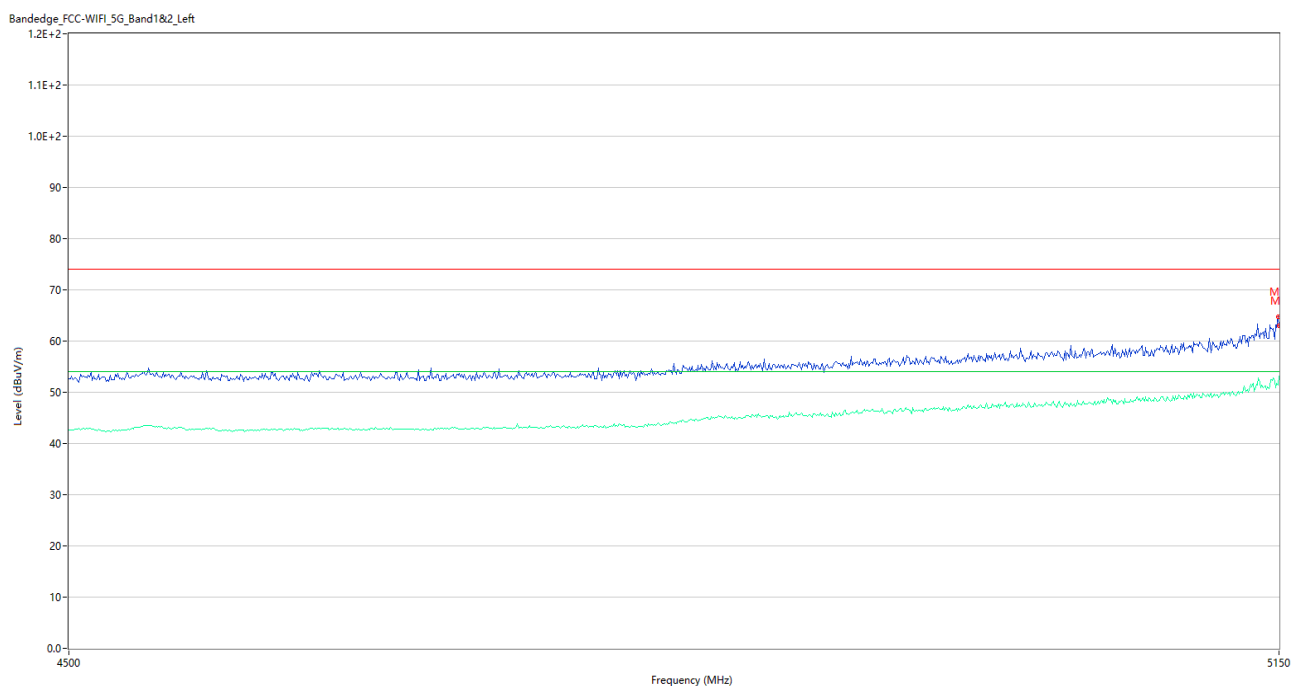
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	69.70	3.82	74.0	4.30	Peak	77.02	150	Vertical	Pass
1**	5150.000	51.68	3.82	54.0	2.32	AV	77.02	150	Vertical	Pass
2	5149.350	68.30	3.84	74.0	5.70	Peak	164.00	150	Vertical	Pass
2**	5149.350	51.82	3.84	54.0	2.18	AV	164.00	150	Vertical	Pass

U-NII-1 11n40 CH46



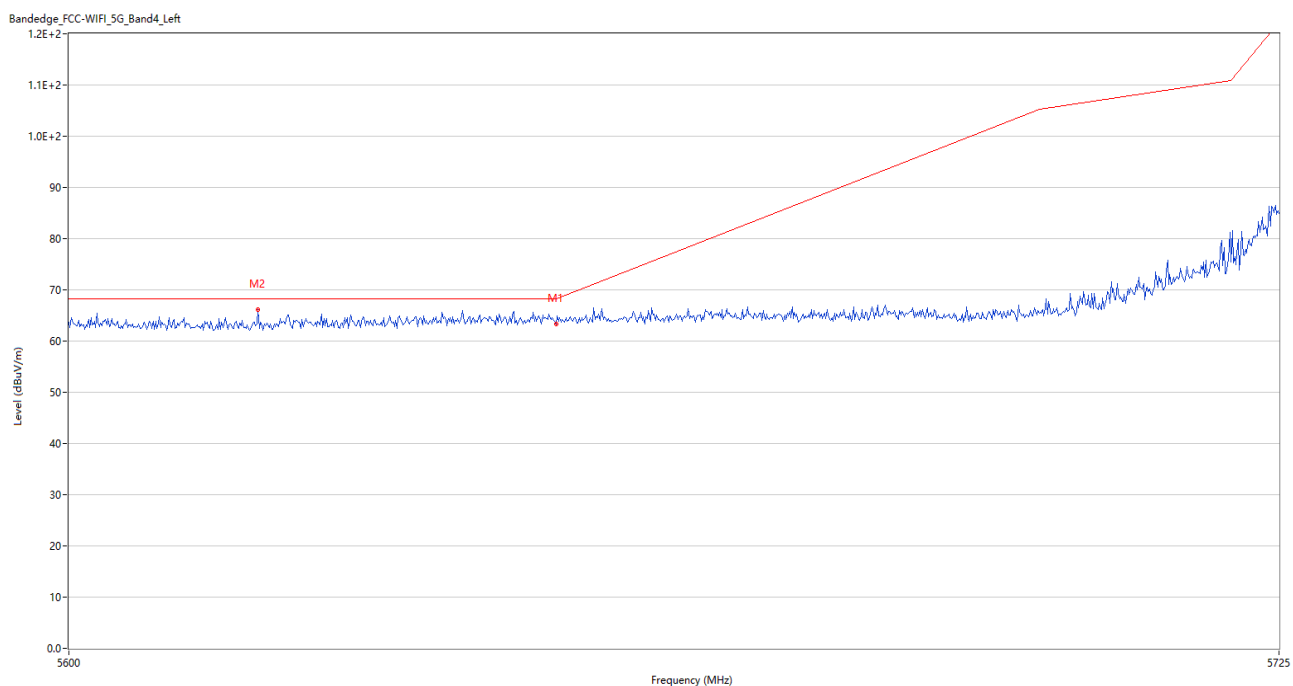
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.12	4.04	74.0	13.88	Peak	63.00	150	Vertical	Pass
1**	5350.000	51.21	4.04	54.0	2.79	AV	63.00	150	Vertical	Pass
2	5362.980	61.87	4.15	74.0	12.13	Peak	70.00	150	Vertical	Pass
2**	5362.980	50.42	4.15	54.0	3.58	AV	70.00	150	Vertical	Pass

U-NII-1 11ac80 CH42



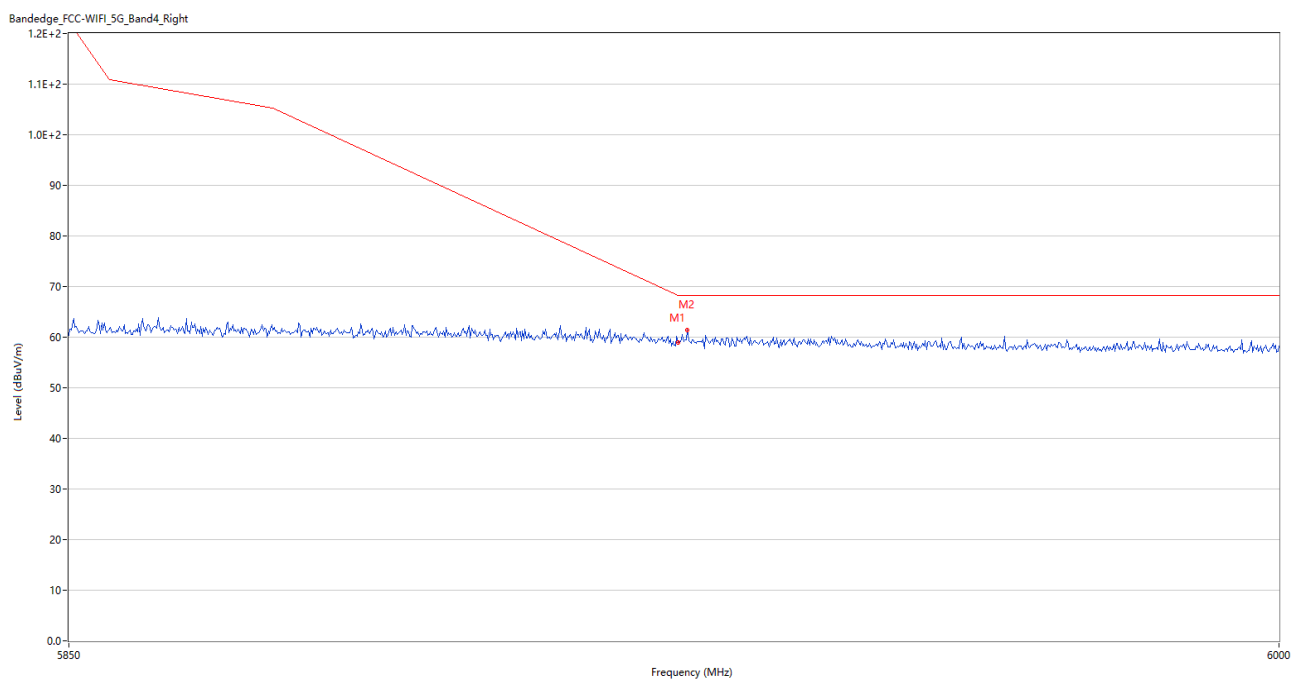
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	62.97	3.82	74.0	11.03	Peak	71.02	150	Vertical	Pass
1**	5150.000	53.22	3.82	54.0	0.78	AV	71.02	150	Vertical	Pass
2	5149.350	64.73	3.84	74.0	9.27	Peak	170.00	150	Vertical	Pass
2**	5149.350	51.35	3.84	54.0	2.65	AV	170.00	150	Vertical	Pass

U-NII-3 11a CH149



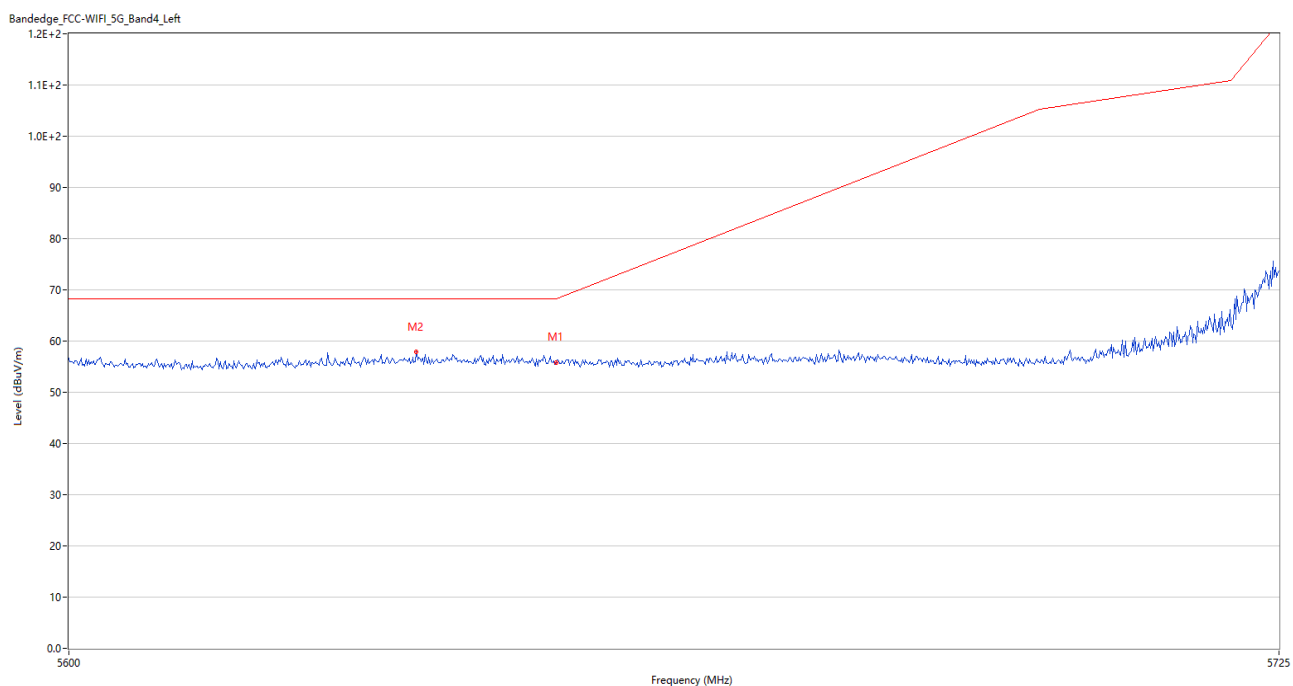
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	63.41	3.81	68.2	4.79	Peak	177.00	150	Vertical	Pass
2	5619.375	66.17	3.58	68.2	2.03	Peak	174.00	150	Vertical	Pass

U-NII-3 11a CH165



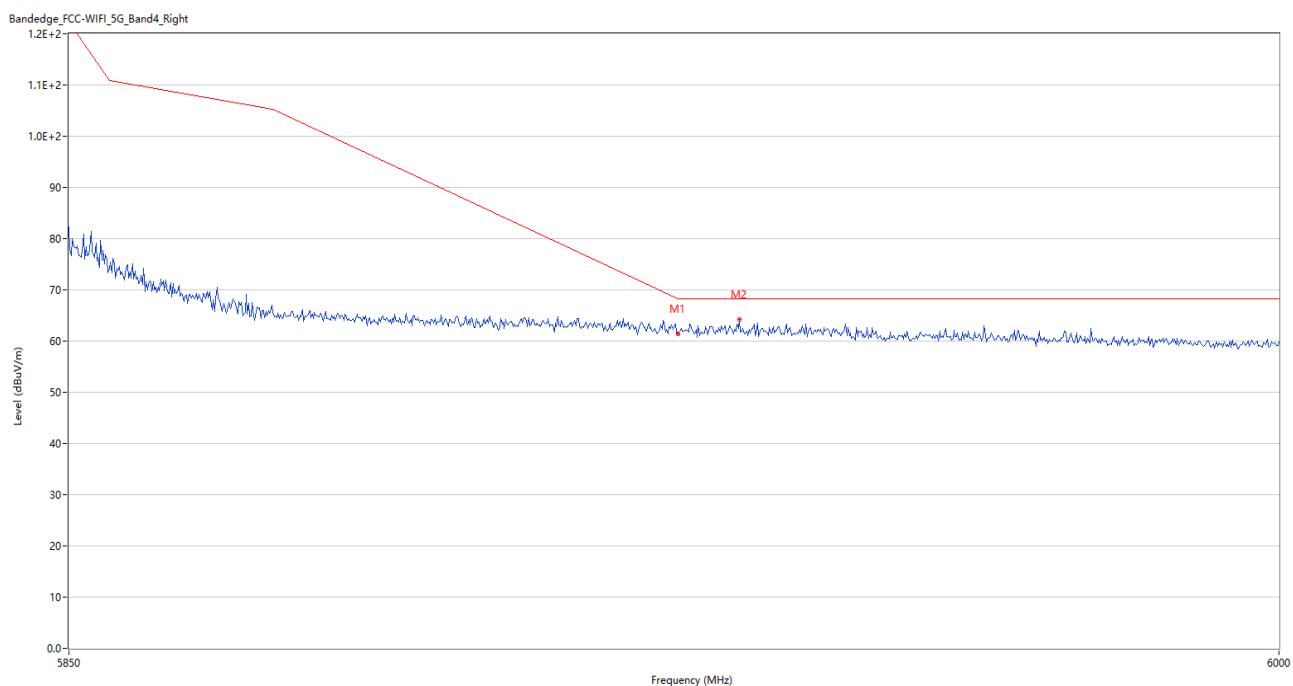
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.90	6.44	68.2	9.30	Peak	177.90	150	Vertical	Pass
2	5926.200	61.32	6.42	68.2	6.88	Peak	101.00	150	Vertical	Pass

U-NII-3 11n20 CH149



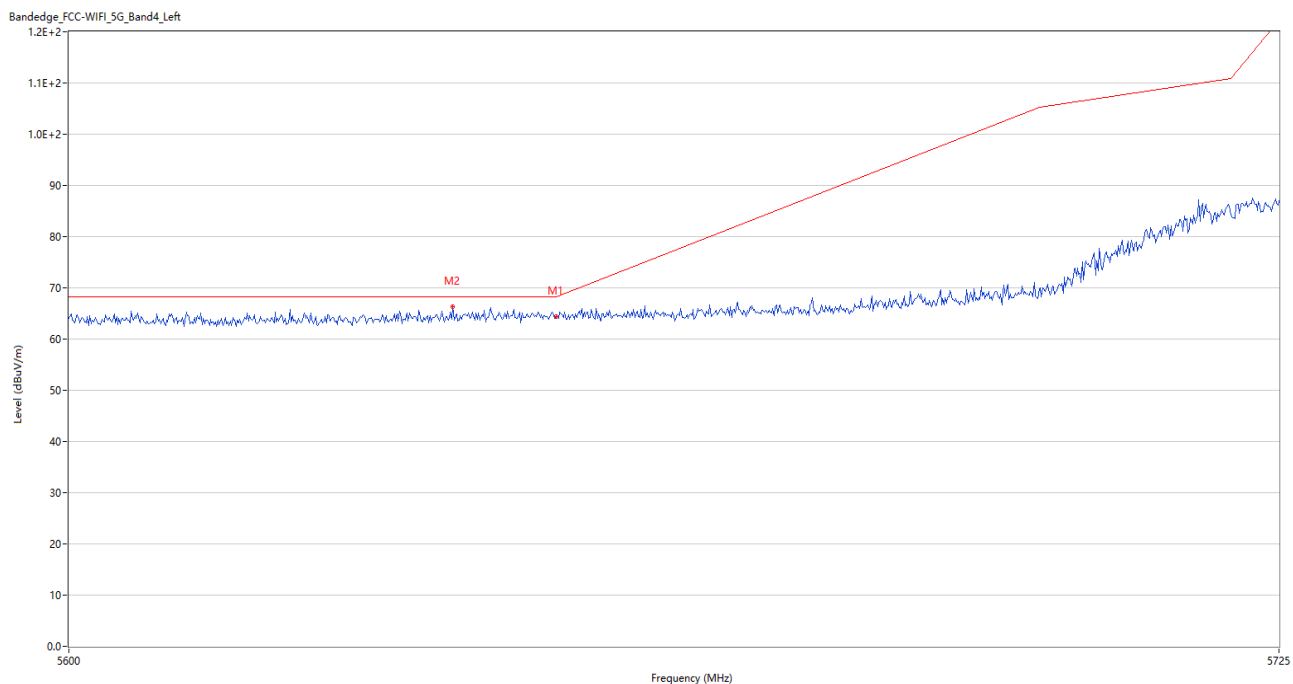
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.81	3.81	68.2	12.39	Peak	262.00	150	Horizontal	Pass
2	5635.625	57.84	3.71	68.2	10.36	Peak	213.00	150	Horizontal	Pass

U-NII-3 11n20 CH165



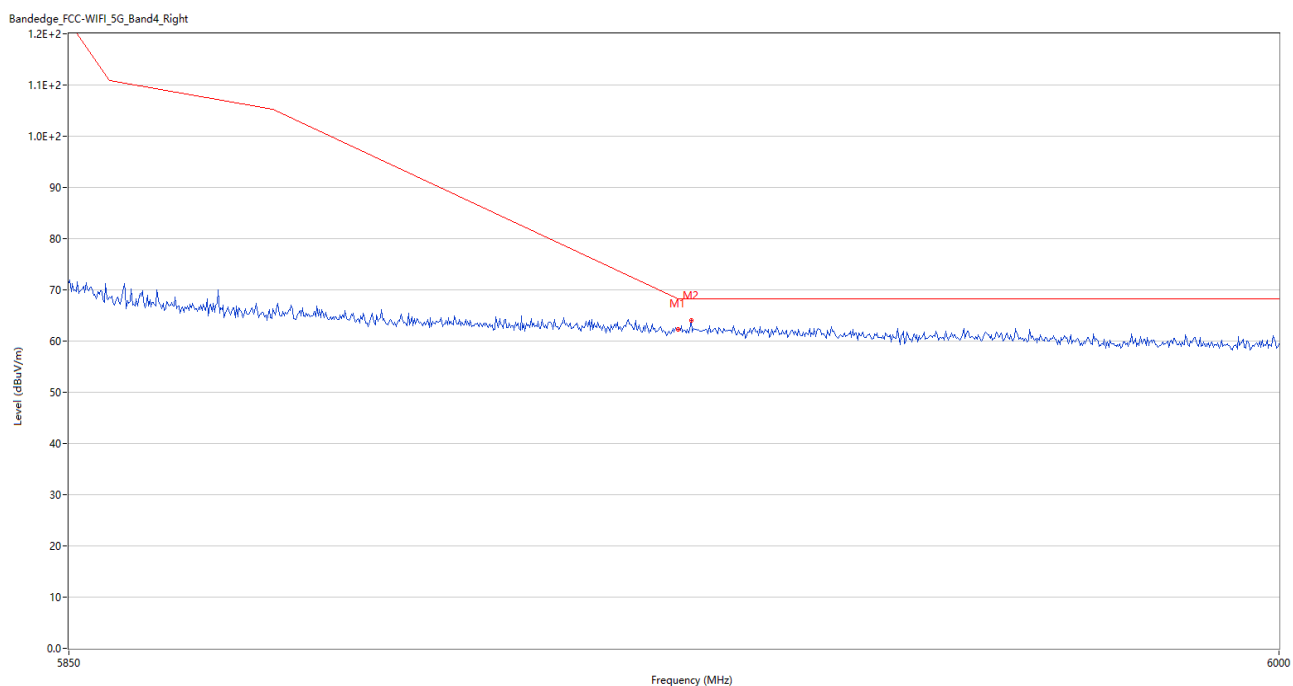
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	61.32	6.44	68.2	6.88	Peak	170.00	150	Vertical	Pass
2	5932.650	64.14	6.26	68.2	4.06	Peak	170.00	150	Vertical	Pass

U-NII-3 11n40 CH151



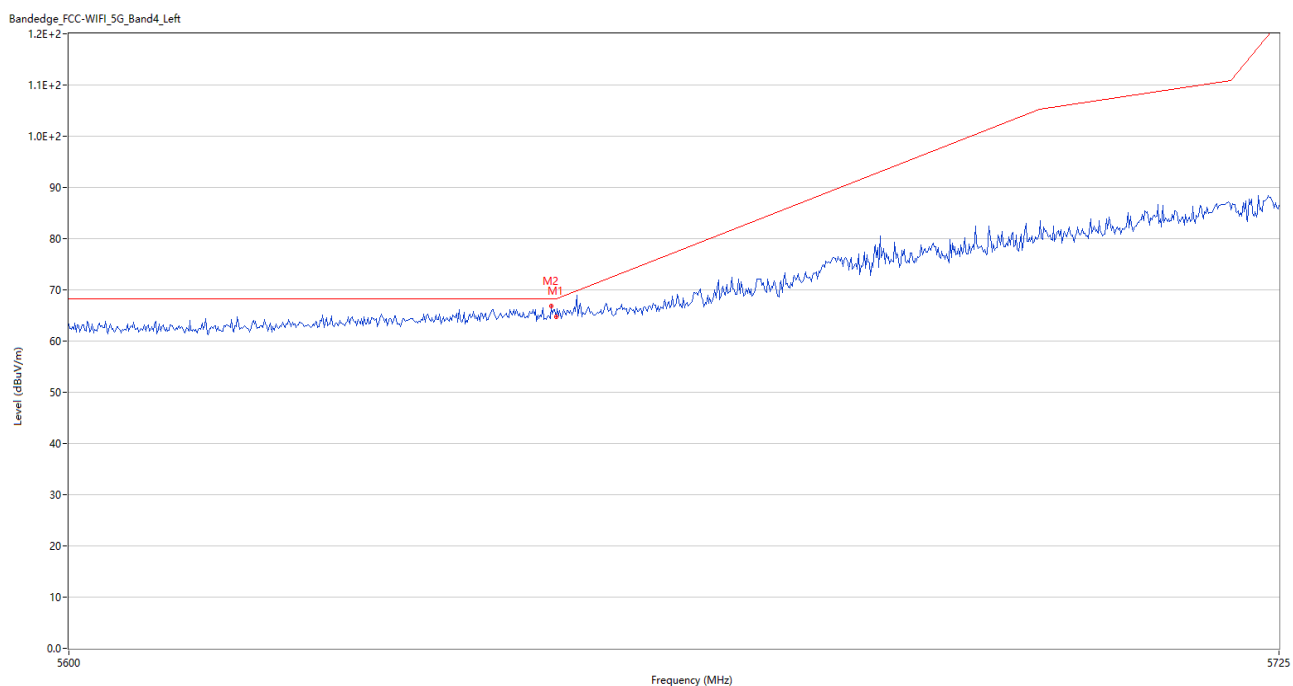
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	64.42	3.81	68.2	3.78	Peak	181.00	150	Vertical	Pass
2	5639.375	66.39	3.74	68.2	1.81	Peak	69.00	150	Vertical	Pass

U-NII-3 11n40 CH159



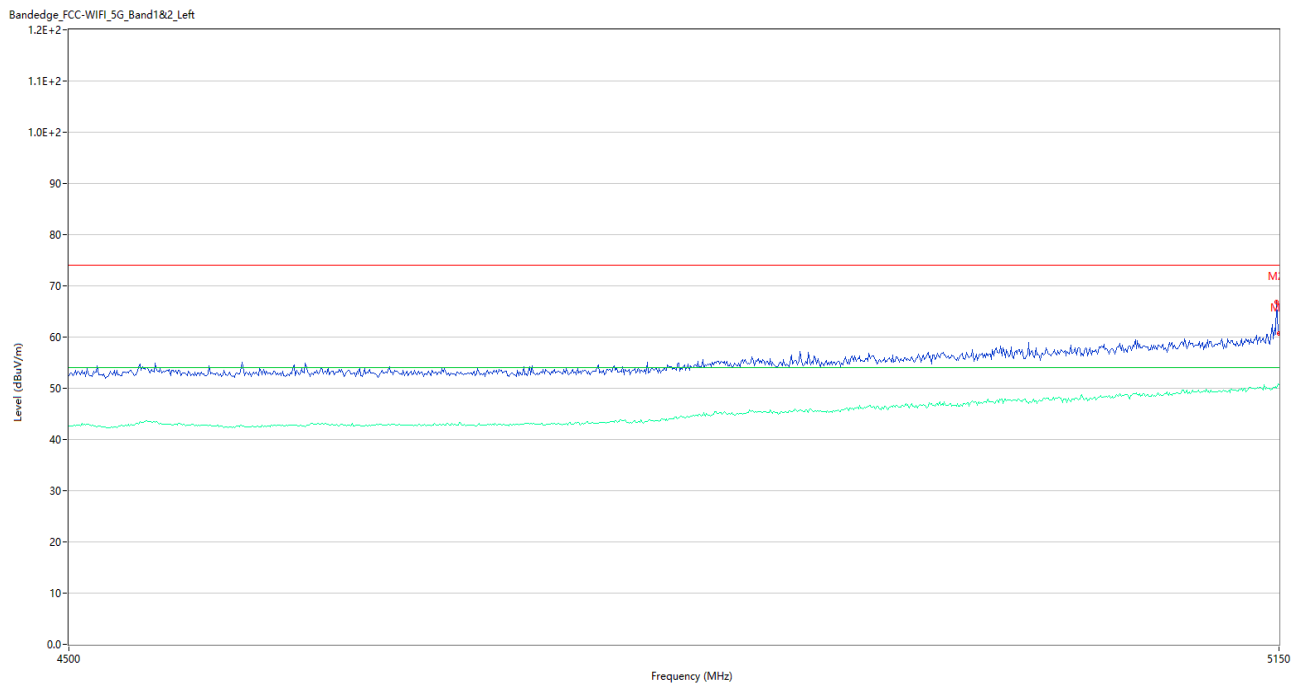
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	62.34	6.44	68.2	5.86	Peak	170.00	150	Vertical	Pass
2	5926.650	64.01	6.41	68.2	4.19	Peak	176.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



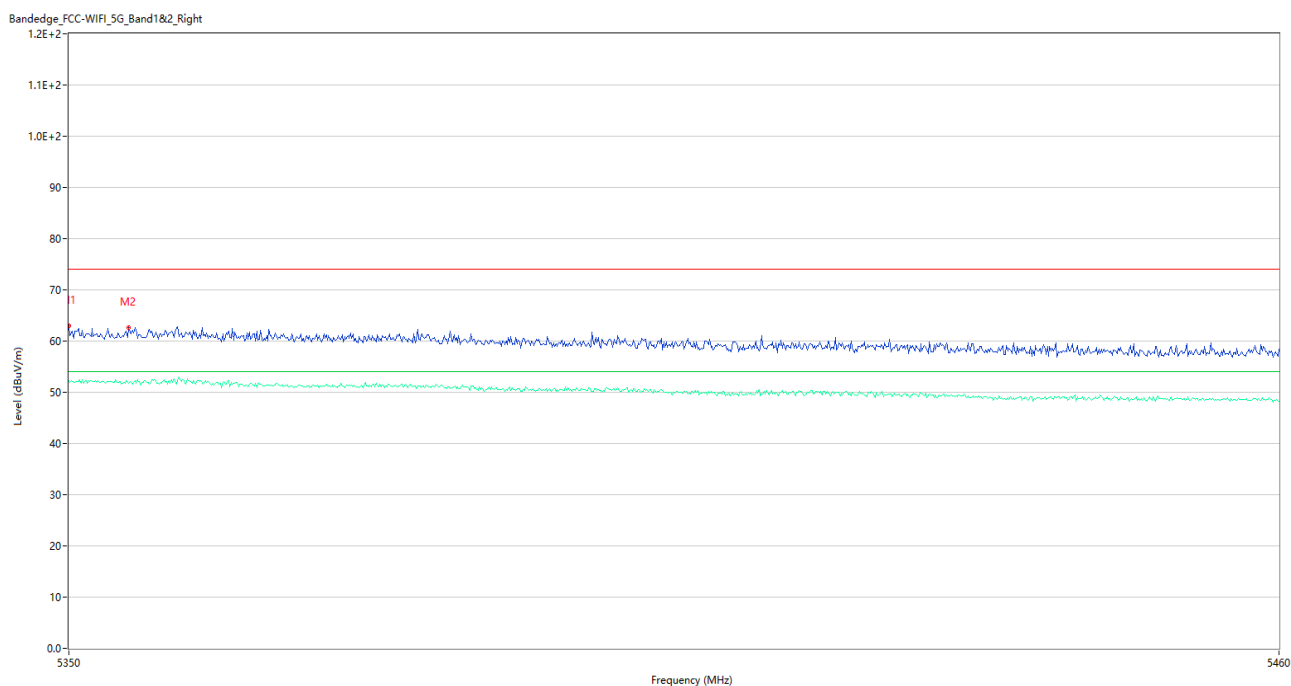
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	64.82	3.81	68.2	3.38	Peak	139.09	150	Vertical	Pass
2	5649.500	66.91	3.81	68.2	1.29	Peak	228.00	150	Vertical	Pass

Aux. Antenna:



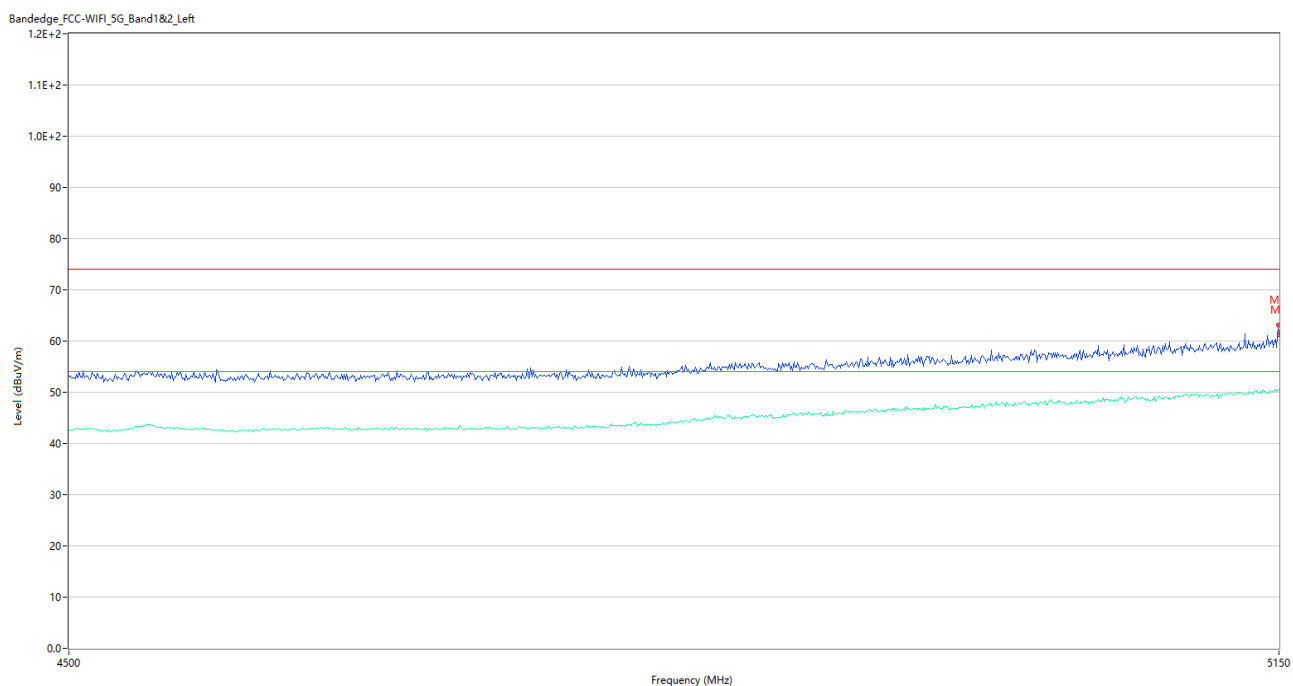
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	60.78	3.82	74.0	13.22	Peak	81.02	150	Vertical	Pass
1**	5150.000	50.63	3.82	54.0	3.37	AV	81.02	150	Vertical	Pass
2	5148.700	66.92	3.85	74.0	7.08	Peak	74.00	150	Vertical	Pass
2**	5148.700	50.00	3.85	54.0	4.00	AV	74.00	150	Vertical	Pass

U-NII-1 11a CH48



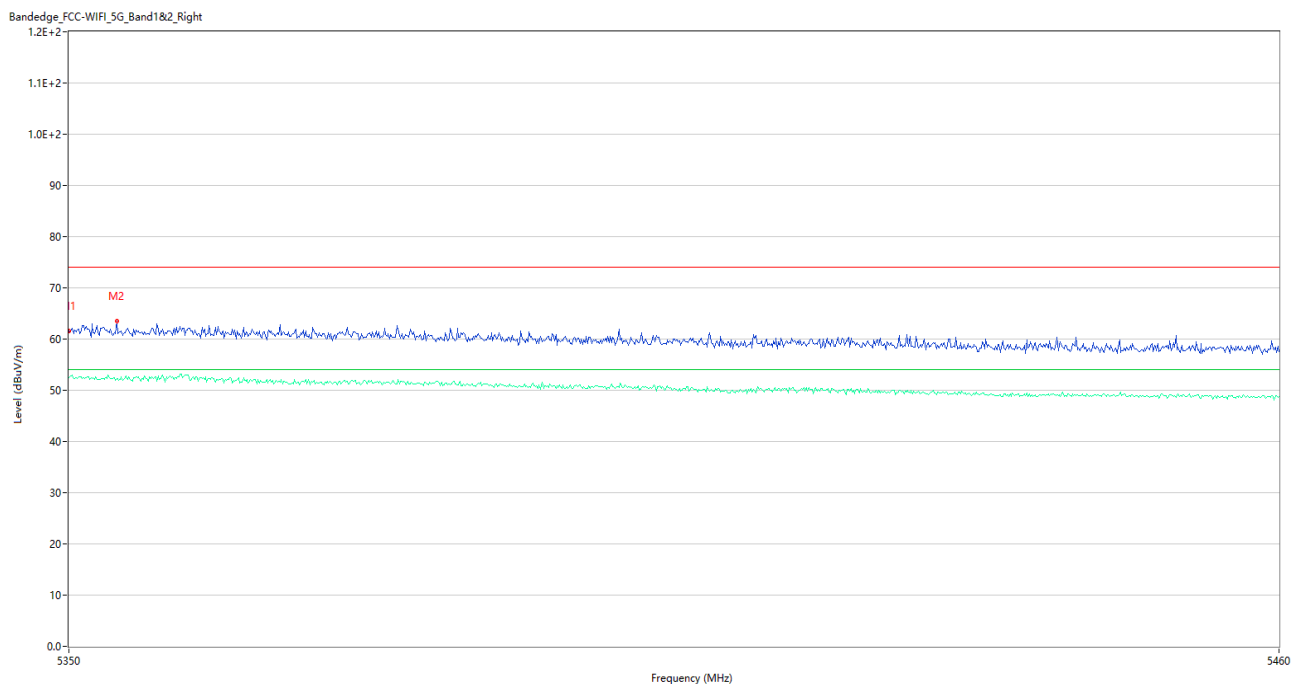
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	63.04	4.04	74.0	10.96	Peak	70.00	150	Vertical	Pass
1**	5350.000	52.31	4.04	54.0	1.69	AV	70.00	150	Vertical	Pass
2	5355.390	62.64	4.15	74.0	11.36	Peak	175.00	150	Vertical	Pass
2**	5355.390	51.68	4.15	54.0	2.32	AV	175.00	150	Vertical	Pass

U-NII-1 11n20 CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	61.18	3.82	74.0	12.82	Peak	72.00	150	Vertical	Pass
1**	5150.000	50.47	3.82	54.0	3.53	AV	72.00	150	Vertical	Pass
2	5149.350	63.08	3.84	74.0	10.92	Peak	64.00	150	Vertical	Pass
2**	5149.350	50.35	3.84	54.0	3.65	AV	64.00	150	Vertical	Pass

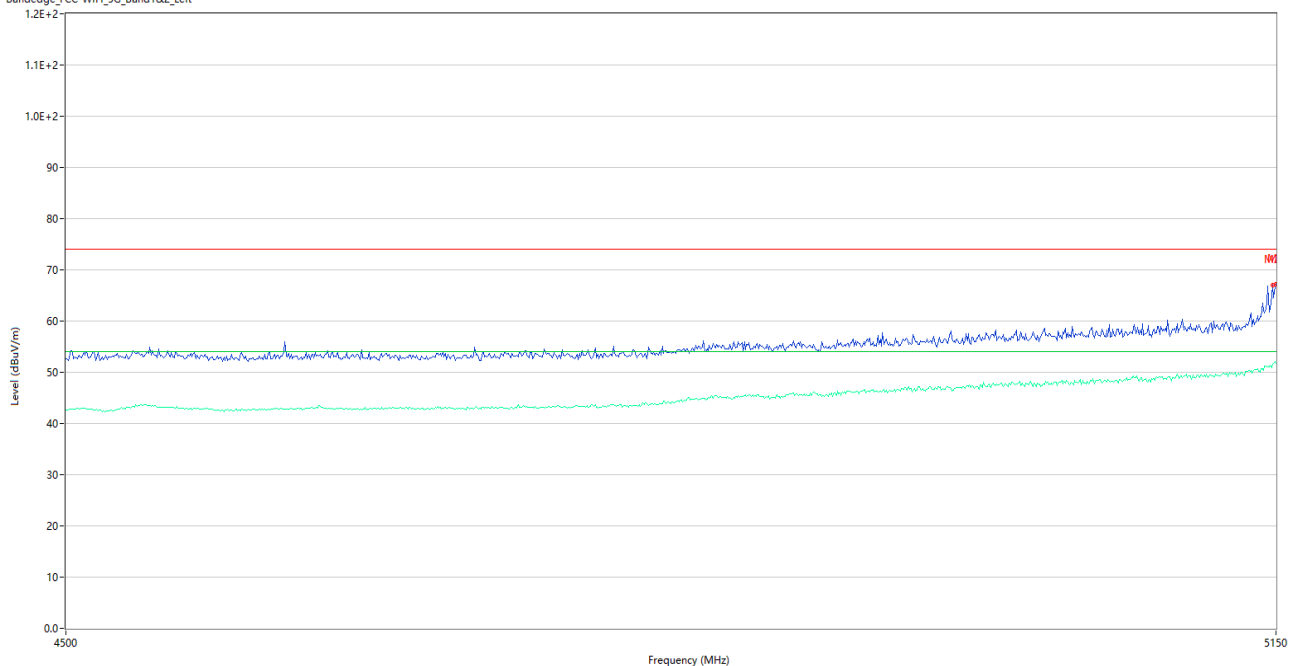
U-NII-1 11n20 CH48



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	61.66	4.04	74.0	12.34	Peak	178.00	150	Vertical	Pass
1**	5350.000	52.39	4.04	54.0	1.61	AV	178.00	150	Vertical	Pass
2	5354.290	63.50	4.12	74.0	10.50	Peak	75.00	150	Vertical	Pass
2**	5354.290	52.21	4.12	54.0	1.79	AV	75.00	150	Vertical	Pass

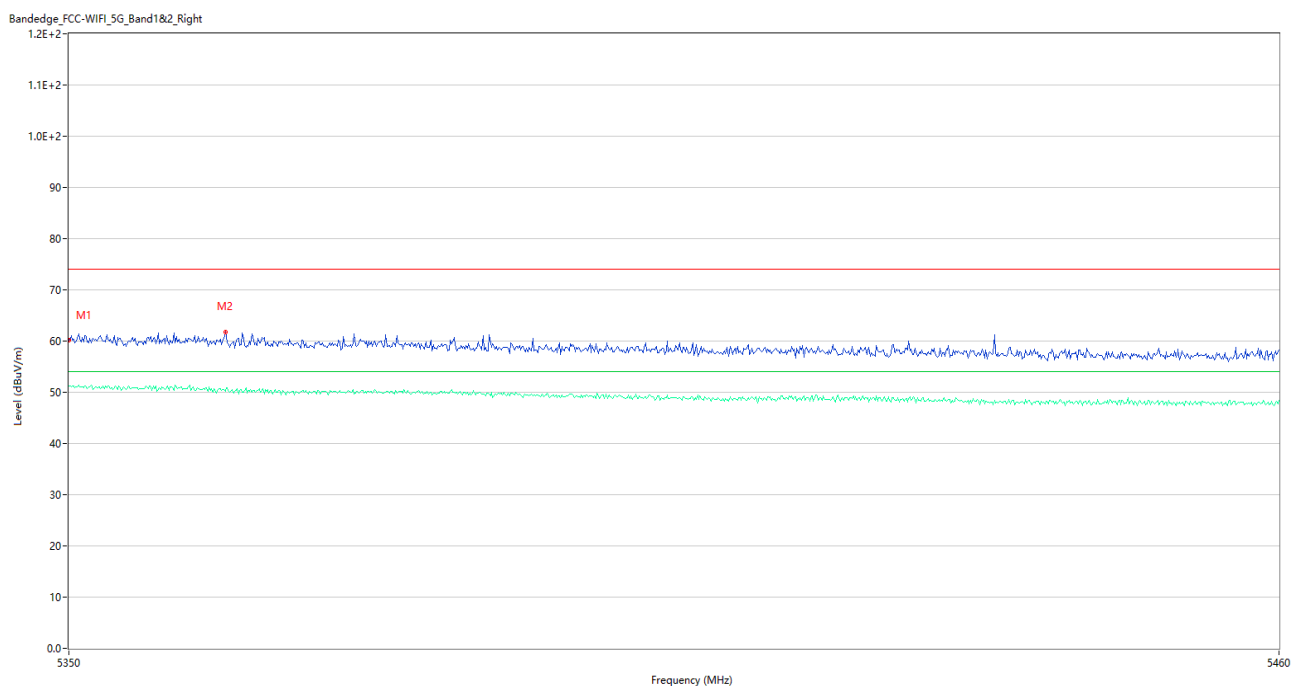
U-NII-1 11n40 CH38

Bandedge_FCC-WiFi_5G_Band1&2_Left



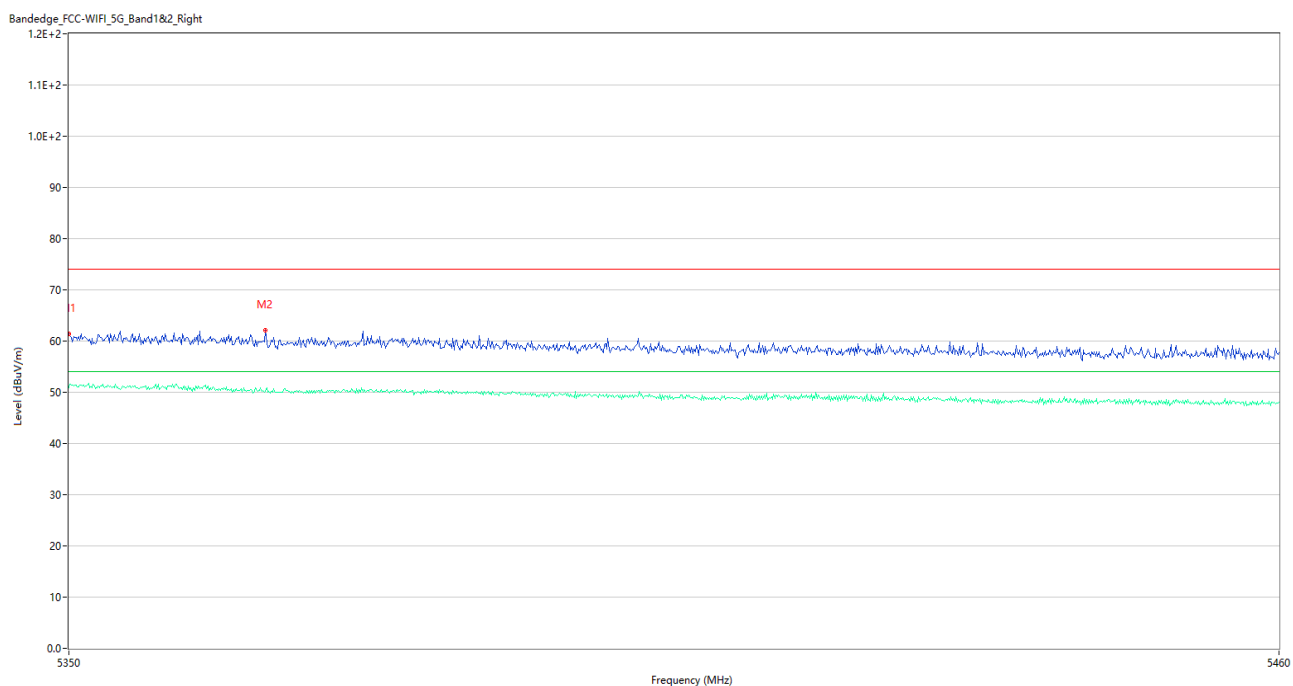
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	67.25	3.82	74.0	6.75	Peak	168.00	150	Vertical	Pass
1**	5150.000	51.68	3.82	54.0	2.32	AV	168.00	150	Vertical	Pass
2	5148.050	67.03	3.87	74.0	6.97	Peak	168.00	150	Vertical	Pass
2**	5148.050	51.52	3.87	54.0	2.48	AV	168.00	150	Vertical	Pass

U-NII-1 11n40 CH46



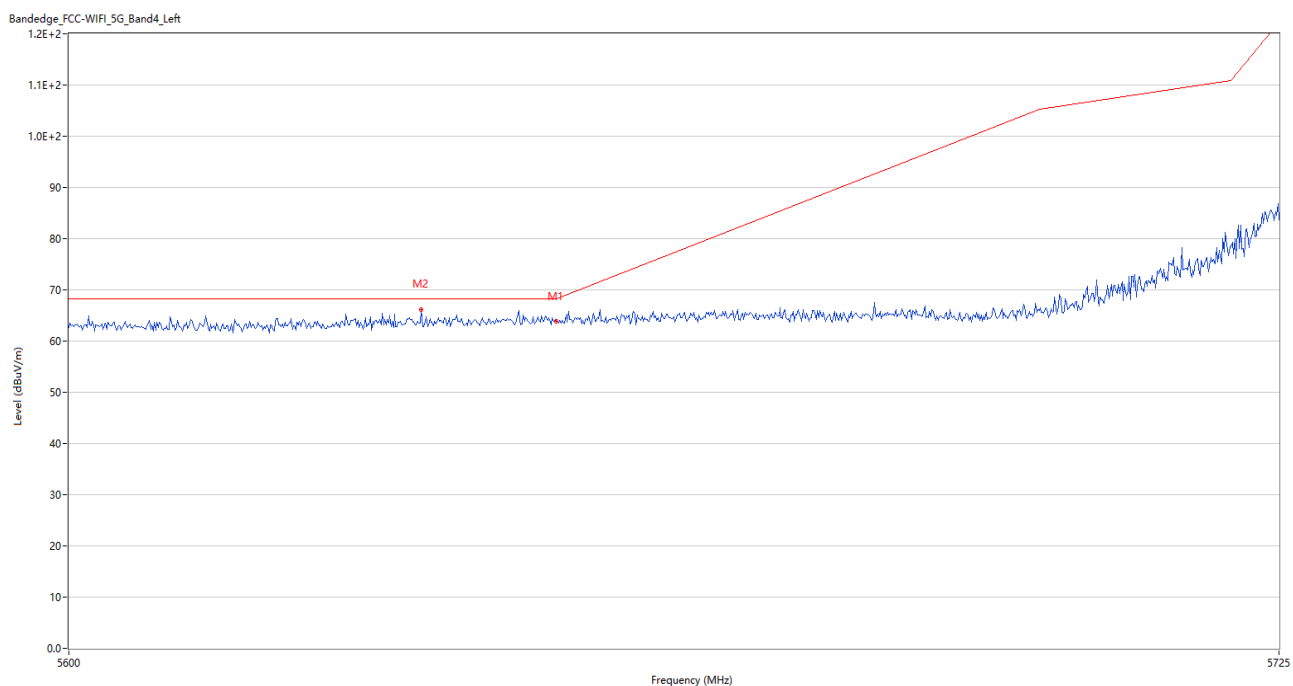
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.20	4.04	74.0	13.80	Peak	174.00	150	Vertical	Pass
1**	5350.000	51.30	4.04	54.0	2.70	AV	174.00	150	Vertical	Pass
2	5364.080	61.84	4.11	74.0	12.16	Peak	174.00	150	Vertical	Pass
2**	5364.080	50.15	4.11	54.0	3.85	AV	174.00	150	Vertical	Pass

U-NII-1 11ac80 CH42



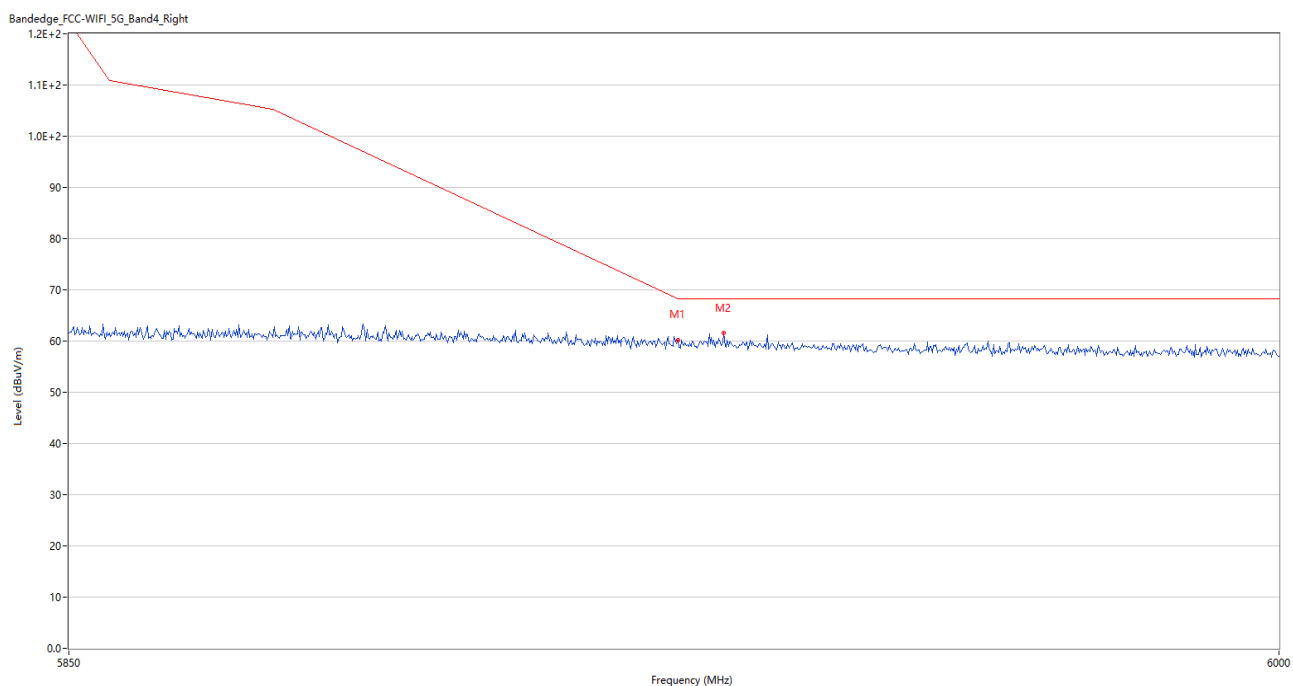
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	61.44	4.04	74.0	12.56	Peak	69.00	150	Vertical	Pass
1**	5350.000	50.82	4.04	54.0	3.18	AV	69.00	150	Vertical	Pass
2	5367.710	62.19	4.04	74.0	11.81	Peak	75.00	150	Vertical	Pass
2**	5367.710	50.19	4.04	54.0	3.81	AV	75.00	150	Vertical	Pass

U-NII-3 11a CH149



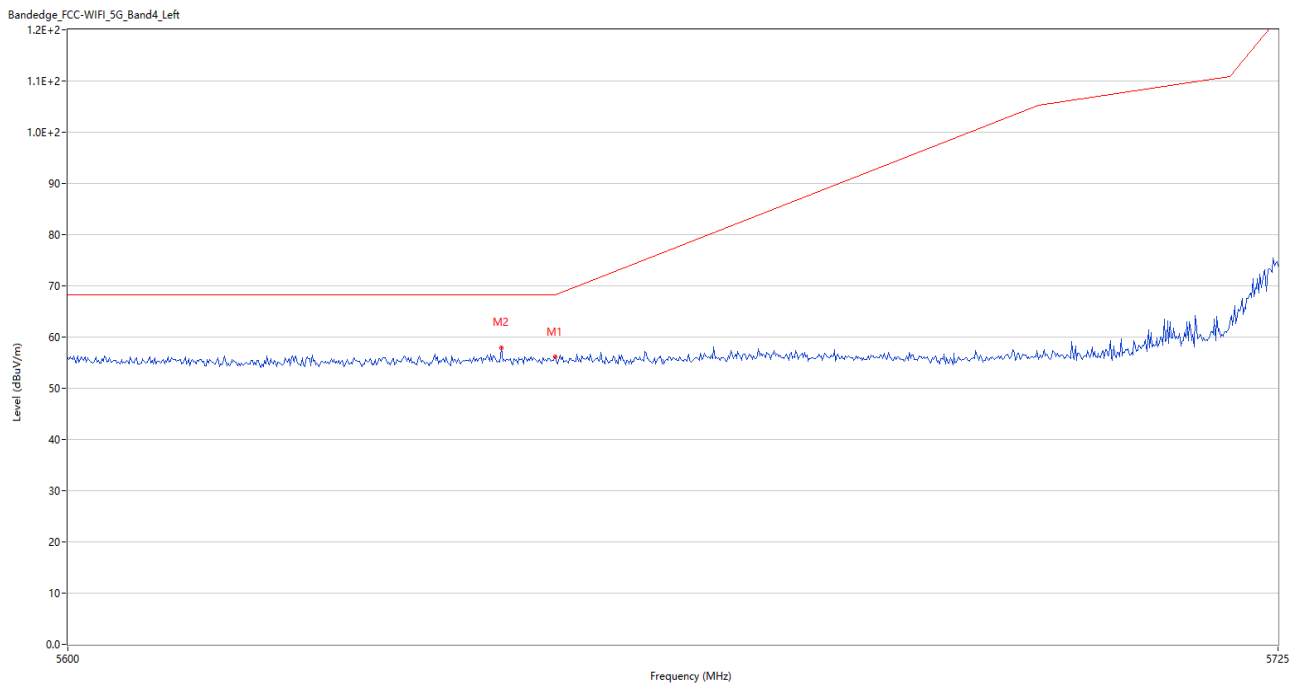
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	63.84	3.81	68.2	4.36	Peak	207.85	150	Vertical	Pass
2	5636.125	66.15	3.71	68.2	2.05	Peak	172.00	150	Vertical	Pass

U-NII-3 11a CH165



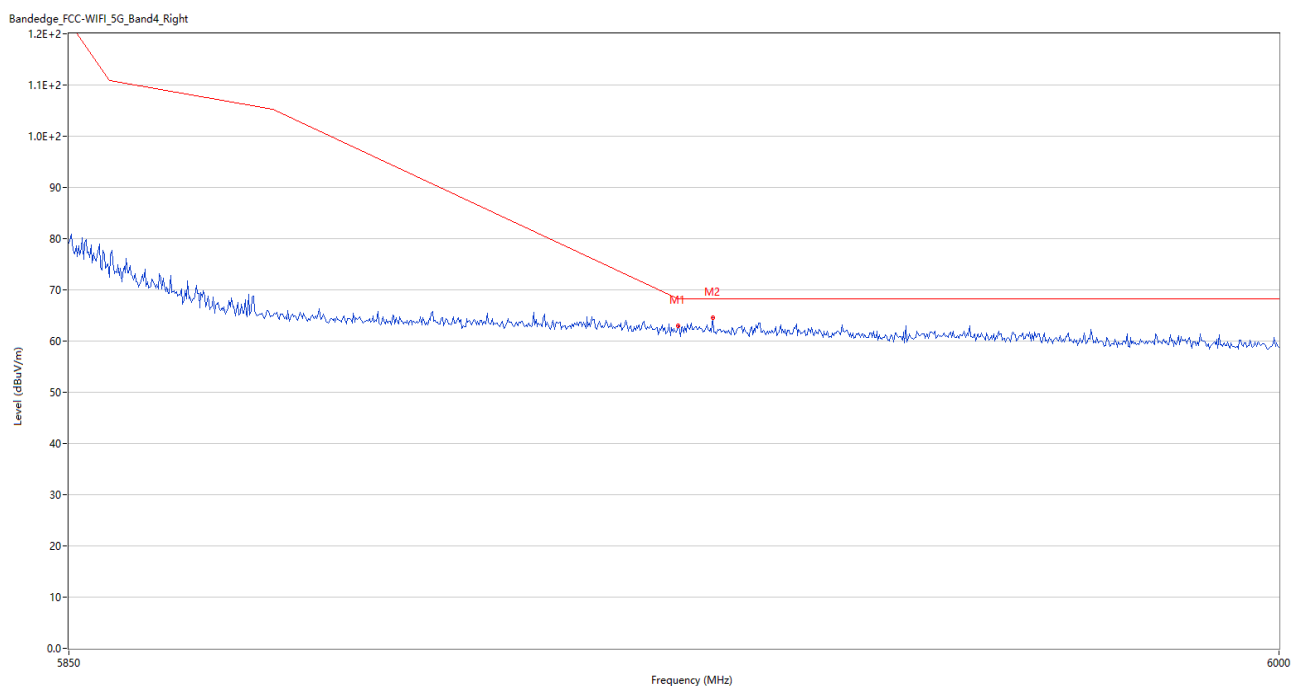
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	60.22	6.44	68.2	7.98	Peak	170.00	150	Vertical	Pass
2	5930.700	61.50	6.30	68.2	6.70	Peak	175.00	150	Vertical	Pass

U-NII-3 11n20 CH149



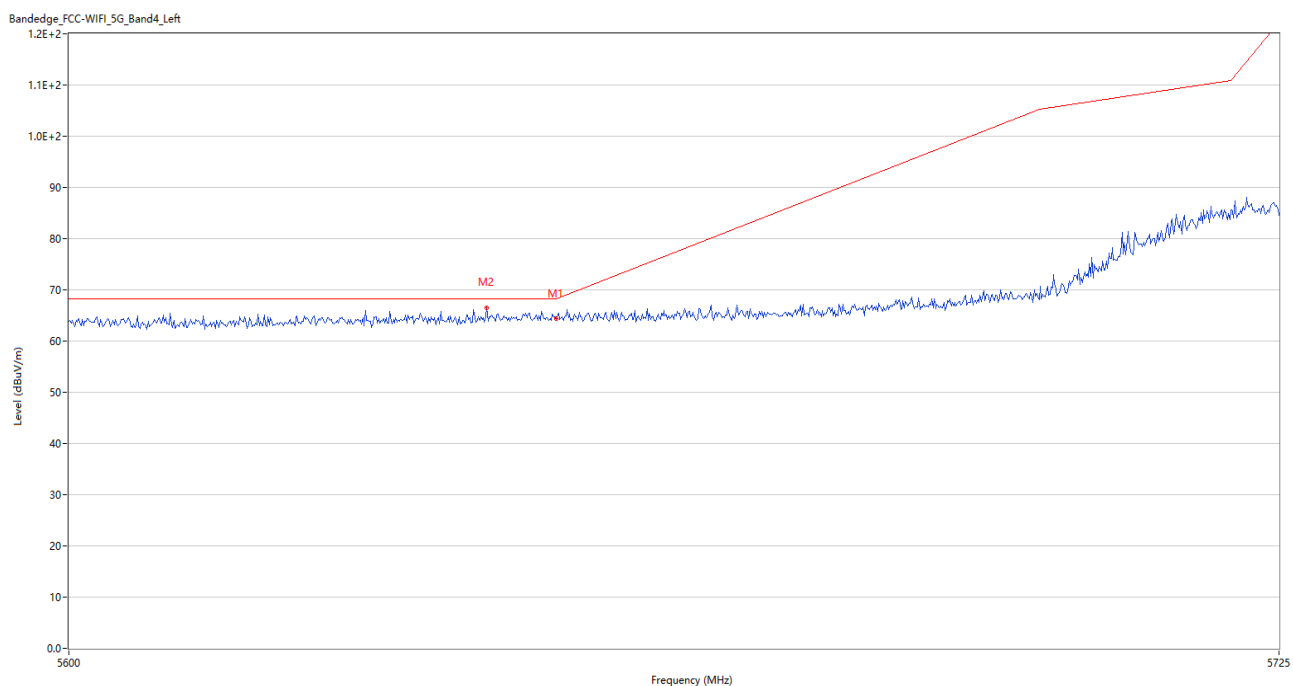
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	56.08	3.81	68.2	12.12	Peak	348.00	150	Vertical	Pass
2	5644.500	57.86	3.77	68.2	10.34	Peak	235.00	150	Vertical	Pass

U-NII-3 11n20 CH165



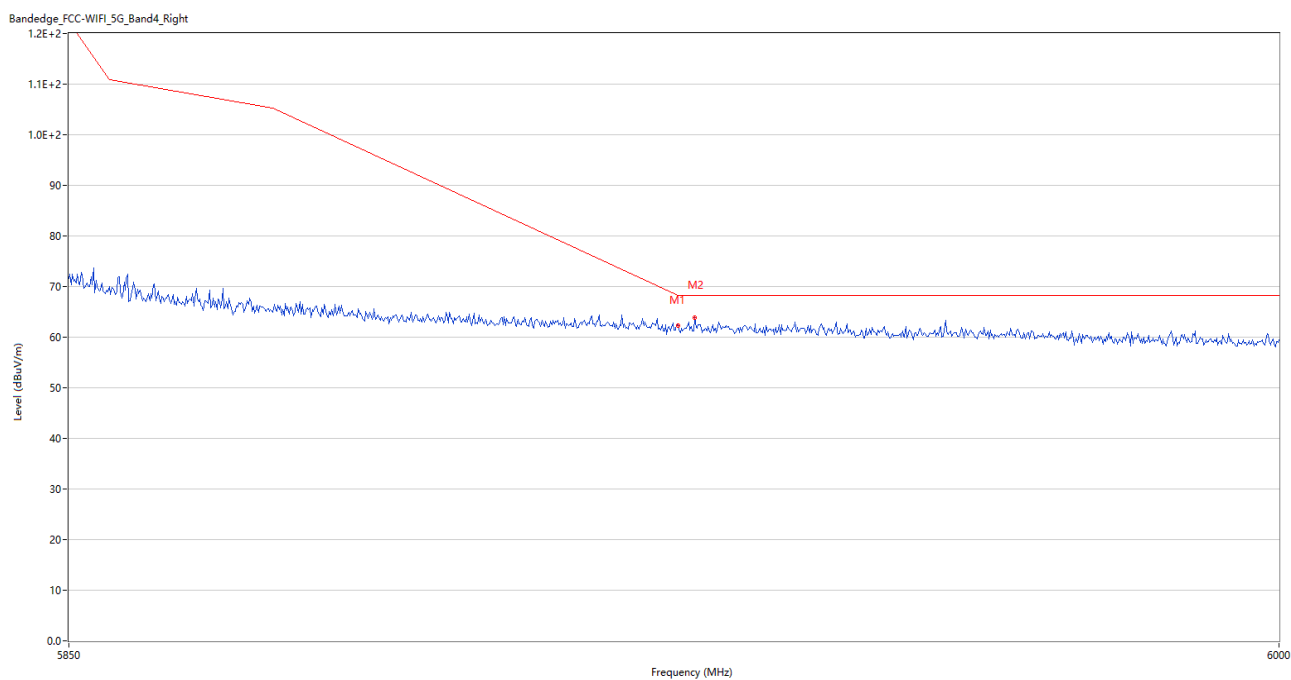
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	63.06	6.44	68.2	5.14	Peak	59.14	150	Vertical	Pass
2	5929.350	64.53	6.33	68.2	3.67	Peak	173.00	150	Vertical	Pass

U-NII-3 11n40 CH151



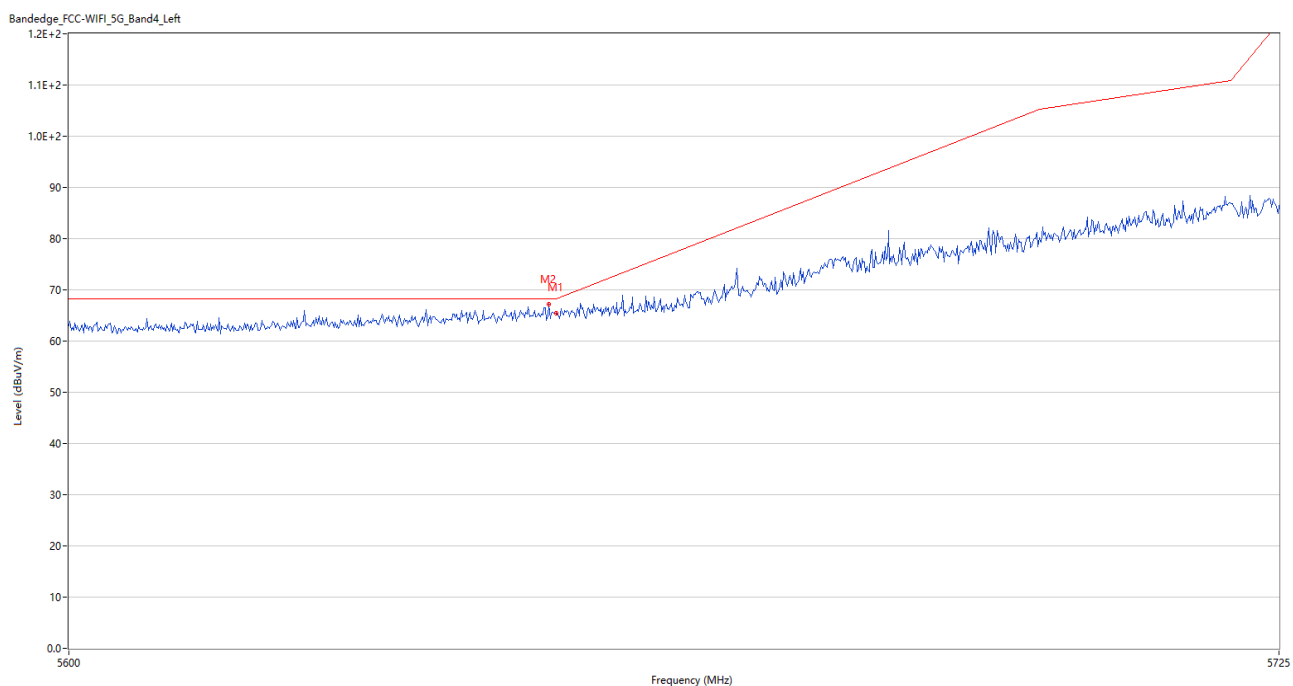
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	64.38	3.81	68.2	3.82	Peak	178.00	150	Vertical	Pass
2	5642.875	66.55	3.75	68.2	1.65	Peak	185.00	150	Vertical	Pass

U-NII-3 11n40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	62.30	6.44	68.2	5.90	Peak	172.00	150	Vertical	Pass
2	5927.100	63.85	6.40	68.2	4.35	Peak	173.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	65.48	3.81	68.2	2.72	Peak	211.85	150	Vertical	Pass
2	5649.250	67.17	3.81	68.2	1.03	Peak	66.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2540397-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2540397-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2540397-AI.PDF”.

Statement

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

--END OF REPORT--