

TEST REPORT

Applicant: E&S International Enterprises, Inc.
Address: 7801 Hayvenhurst Avenue, Van Nuys, California
91406, United States
Equipment Type: All-in-one PC
Model Name: RWAP42444-GRY (refer to section 2.3)
Brand Name: RCA
FCC ID: 2AYPE-RWAP42444
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Mar. 04, 2024
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Si Xiao**Checked by:** Ye Hongji**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 11, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	E&S International Enterprises, Inc.
Address	7801 Hayvenhurst Avenue, Van Nuys, California 91406, United States

2.2 Manufacturer Information

Manufacturer	E&S International Enterprises, Inc.
Address	7801 Hayvenhurst Avenue, Van Nuys, California 91406, United States

2.3 General Description for Equipment under Test (EUT)

EUT Name	All-in-one PC
Model Name Under Test	RWAP42444-GRY
Series Model Name	RWAP42444-GRY-S
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in system language (this information provided by the applicant).
Hardware Version	TJ5040-S4 -WRM
Software Version	23H2
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac U-NII-1/3
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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	
Product Type	☒ Mobile ☐ Portable ☐ Fix Location	
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: 30.48 mW U-NII-3: 30.83 mW	
Antenna System (eg., MIMO, Smart Antenna)	N/A	
Categorization as Correlated or Completely Uncorrelated	N/A	
Antenna Type	ANT-1 ANT-2	PCB Antenna
Antenna Gain	ANT-1 ANT-2	3.41 dBi 3.05 dBi
About the Product	The equipment is All-in-one PC, intended for used with information technology equipment.	

2.5 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	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	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	155	Mid	5775

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
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	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	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	47% to 69%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.8°C to +24.7°C
	LT (Low Temperature)	0.0°C
	HT (High Temperature)	+45.0°C
Working Voltage of the EUT	NV (Normal Voltage)	12.0 V
	LV (Low Voltage)	10.8 V
	HV (High Voltage)	13.2 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2023.07.25	2024.07.24
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2023.07.12	2024.07.11
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2023.09.05	2024.09.04
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2023.06.19	2024.06.18
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2021.05.20	2024.05.19
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2022.02.19	2024.08.15
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2023.09.05	2024.09.04
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2023.09.05	2024.09.04
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2023.12.06	2024.12.05
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2024.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Amplifier	COM-MV	ZT30-1000M	B2017119082	2023.12.05	2024.12.04
Anechoic Chamber	RAINFORD	9m*6m*6m	101	2023.03.04	2026.03.03
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
Shielded Enclosure	YiHeng Electronic	3.5m*3.1m*2.8	112	2022.02.19	2025.02.18

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
	Co., Ltd	m			

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

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

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

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

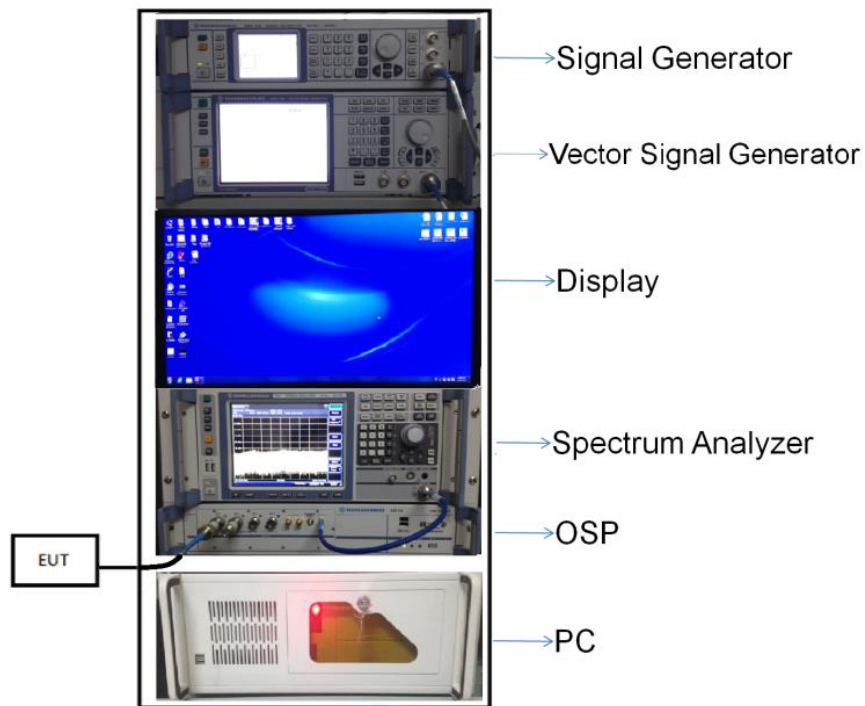
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

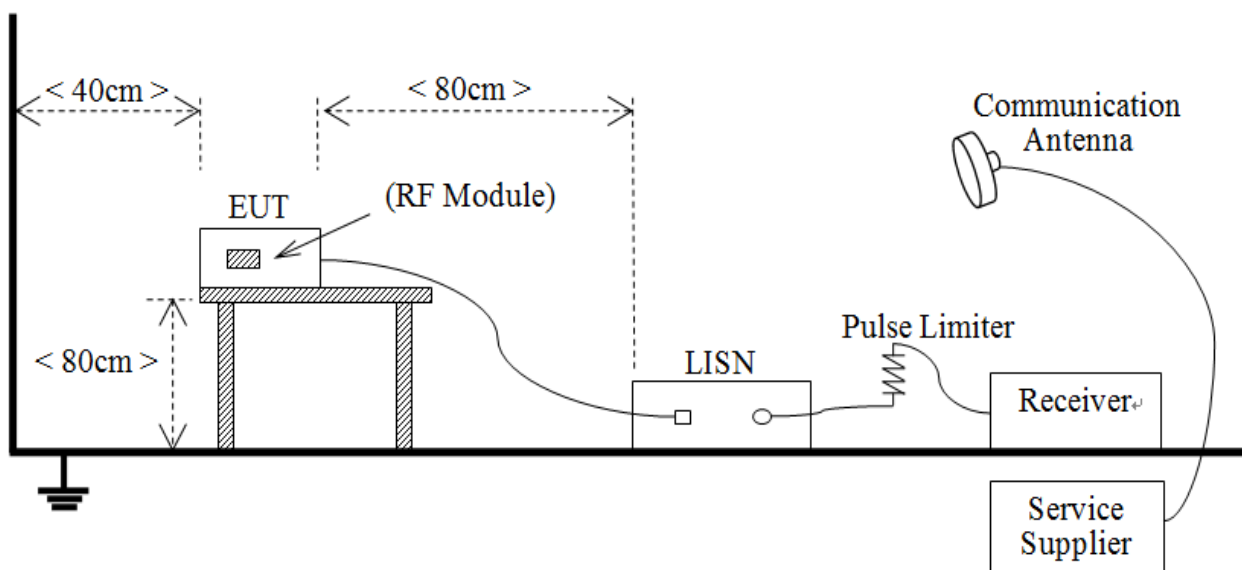
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



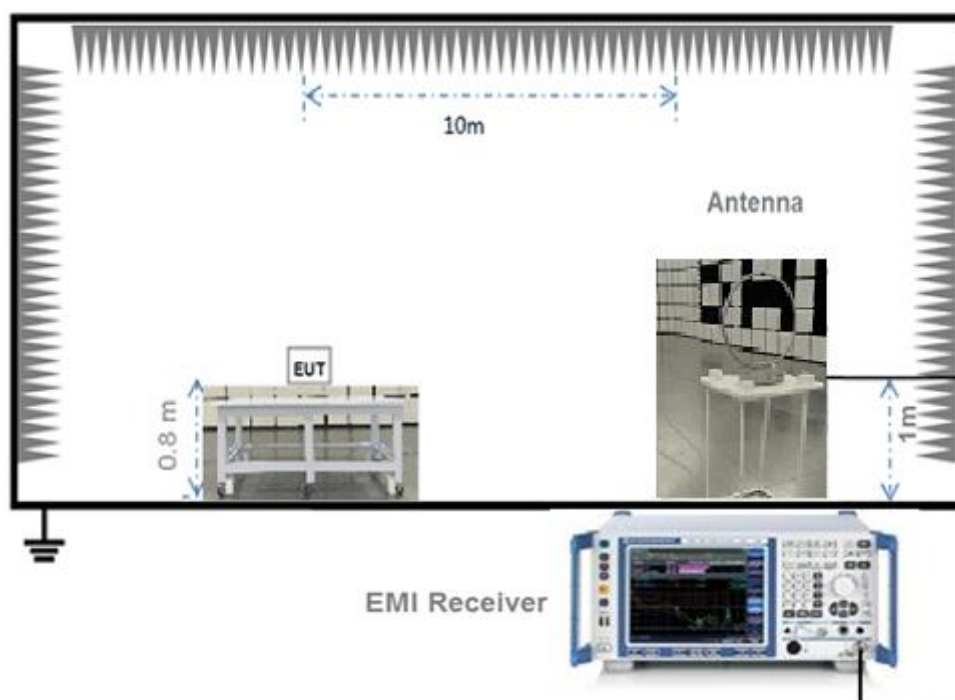
(Diagram 1)

4.5.2 For AC Power Supply Port Test



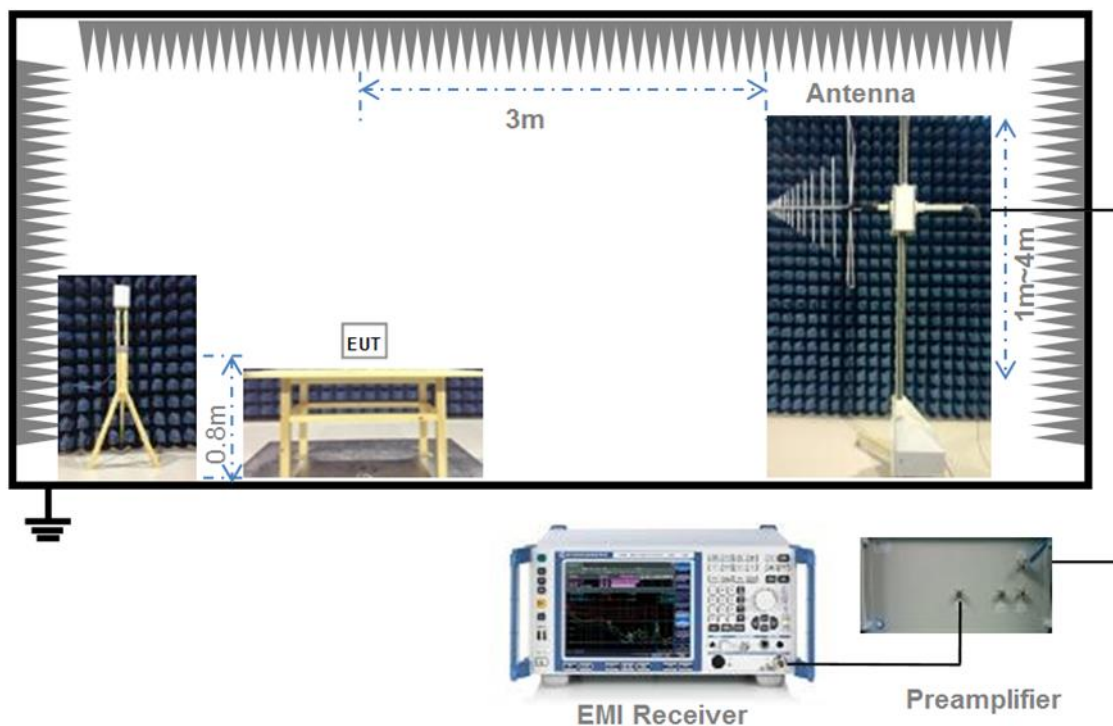
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



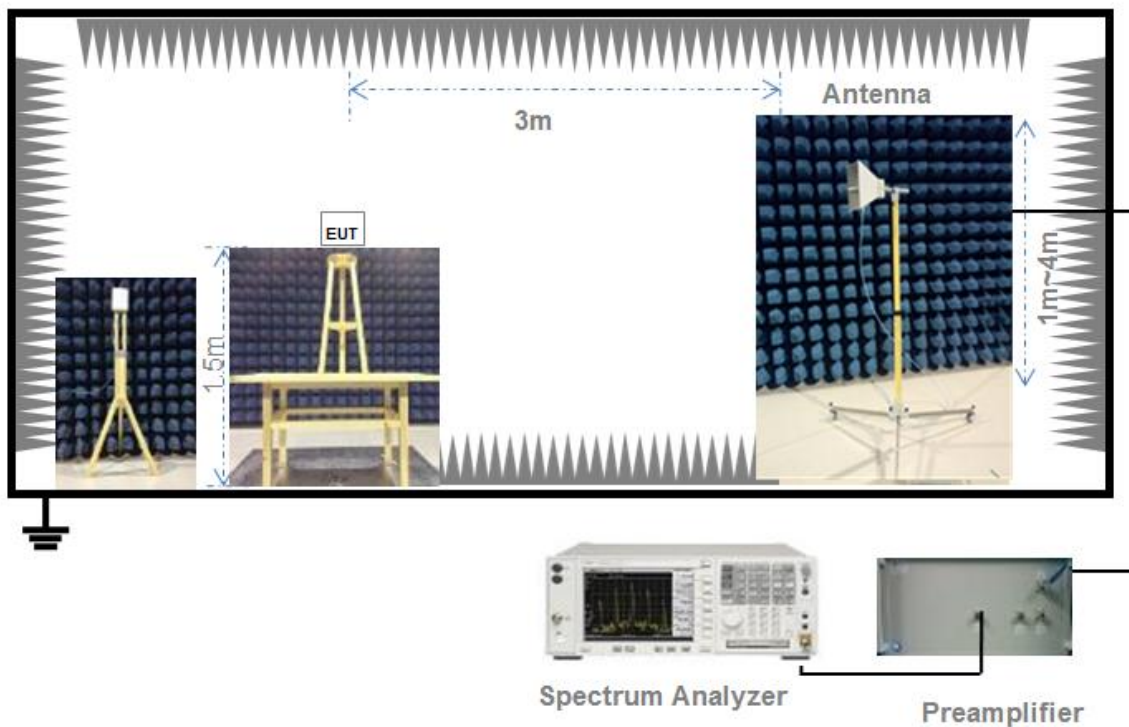
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 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 4.5.1 (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 ≥ 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 4.5.1 (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, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.
2. Detector = Peak. Trace mode = Max hold.
3. Allow the trace to stabilize.
4. 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 4.5.1 (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 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

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

5.5.2 Test Setup

The section 4.5.3-4.5.5 (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

- 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).
- 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).
- 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).
- 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.

e) Compare the resultant electric field strength level to the applicable limit.

f) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

a) RBW = as specified in Table 1.

b) VBW $\geq 3 \times$ RBW.

c) Detector = Peak.

d) Sweep time = auto.

e) Trace mode = max hold.

f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

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

Determining the applicable transmit antenna gain

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

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that

is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

Note: 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.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.00	1.00	100.00%	0
11n (HT20)/11ac (VHT20)	1.00	1.00	100.00%	0
11n (HT40)/11ac (VHT40)	1.00	1.00	100.00%	0
11ac (VHT80)	1.00	1.00	100.00%	0

Test Data

Conducted Power

ANT-1

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	14.14	25.94	250	Pass
11a	CH44	14.33	27.10	250	Pass
11a	CH48	14.32	27.04	250	Pass
11n (HT20)	CH36	14.72	29.65	250	Pass
11n (HT20)	CH44	14.80	30.20	250	Pass
11n (HT20)	CH48	14.66	29.24	250	Pass
11n (HT40)	CH38	11.53	14.22	250	Pass
11n (HT40)	CH46	14.69	29.44	250	Pass
11ac (VHT20)	CH36	14.59	28.77	250	Pass
11ac (VHT20)	CH44	14.71	29.58	250	Pass
11ac (VHT20)	CH48	14.67	29.31	250	Pass
11ac (VHT40)	CH38	11.28	13.43	250	Pass
11ac (VHT40)	CH46	14.82	30.34	250	Pass
11ac (VHT80)	CH42	10.42	11.02	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.09	25.64	1000	Pass
11a	CH157	14.18	26.18	1000	Pass
11a	CH165	14.33	27.10	1000	Pass
11n (HT20)	CH149	14.63	29.04	1000	Pass
11n (HT20)	CH157	14.87	30.69	1000	Pass
11n (HT20)	CH165	14.78	30.06	1000	Pass
11n (HT40)	CH151	14.74	29.79	1000	Pass
11n (HT40)	CH159	14.66	29.24	1000	Pass
11ac (VHT20)	CH149	14.85	30.55	1000	Pass
11ac (VHT20)	CH157	14.85	30.55	1000	Pass
11ac (VHT20)	CH165	14.86	30.62	1000	Pass
11ac (VHT40)	CH151	14.84	30.48	1000	Pass
11ac (VHT40)	CH159	14.64	29.11	1000	Pass
11ac (VHT80)	CH155	14.67	29.31	1000	Pass

ANT-2

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	14.06	25.47	250	Pass
11a	CH44	13.95	24.83	250	Pass
11a	CH48	14.07	25.53	250	Pass
11n (HT20)	CH36	14.61	28.91	250	Pass
11n (HT20)	CH44	14.67	29.31	250	Pass
11n (HT20)	CH48	14.80	30.20	250	Pass
11n (HT40)	CH38	11.06	12.76	250	Pass
11n (HT40)	CH46	14.83	30.41	250	Pass
11ac (VHT20)	CH36	14.76	29.92	250	Pass
11ac (VHT20)	CH44	14.72	29.65	250	Pass
11ac (VHT20)	CH48	14.81	30.27	250	Pass
11ac (VHT40)	CH38	11.12	12.94	250	Pass
11ac (VHT40)	CH46	14.84	30.48	250	Pass
11ac (VHT80)	CH42	10.05	10.12	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.92	24.66	1000	Pass
11a	CH157	14.06	25.47	1000	Pass
11a	CH165	14.21	26.36	1000	Pass
11n (HT20)	CH149	14.63	29.04	1000	Pass
11n (HT20)	CH157	14.73	29.72	1000	Pass
11n (HT20)	CH165	14.51	28.25	1000	Pass
11n (HT40)	CH151	14.75	29.85	1000	Pass
11n (HT40)	CH159	14.71	29.58	1000	Pass
11ac (VHT20)	CH149	14.84	30.48	1000	Pass
11ac (VHT20)	CH157	14.86	30.62	1000	Pass
11ac (VHT20)	CH165	14.56	28.58	1000	Pass
11ac (VHT40)	CH151	14.85	30.55	1000	Pass
11ac (VHT40)	CH159	14.89	30.83	1000	Pass
11ac (VHT80)	CH155	14.62	28.97	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2430416-604 Data Part 1.pdf”.

Note ²: All antenna were tested, but only the worst case has been reported in this report.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	23.47	16.64
11a	CH44	21.40	16.66
11a	CH48	21.81	16.68
11n (HT20)	CH36	24.79	17.83
11n (HT20)	CH44	26.31	17.86
11n (HT20)	CH48	23.27	17.81
11n (HT40)	CH38	65.23	37.06
11n (HT40)	CH46	65.12	37.11
11ac (VHT20)	CH36	21.89	17.80
11ac (VHT20)	CH44	24.77	17.82
11ac (VHT20)	CH48	24.84	17.84
11ac (VHT40)	CH38	65.38	37.08
11ac (VHT40)	CH46	65.51	37.12
11ac (VHT80)	CH42	121.10	76.28

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	38.59	23.02
11a	CH157	38.61	23.53
11a	CH165	37.61	22.26
11n (HT20)	CH149	45.07	24.42
11n (HT20)	CH157	45.16	25.73
11n (HT20)	CH165	45.23	25.73
11n (HT40)	CH151	85.52	48.82
11n (HT40)	CH159	85.43	49.57
11ac (VHT20)	CH149	45.14	25.00
11ac (VHT20)	CH157	45.53	26.35
11ac (VHT20)	CH165	44.28	26.54
11ac (VHT40)	CH151	86.22	51.55
11ac (VHT40)	CH159	85.75	51.04
11ac (VHT80)	CH155	143.40	98.53

A.3 6 dB Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2430416-604 Data Part 2.pdf”.

Note ²: All antenna were tested, but only the worst case has been reported in this report.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.70	500.00	Pass
11a	CH157	16.70	500.00	Pass
11a	CH165	16.70	500.00	Pass
11n (HT20)	CH149	17.90	500.00	Pass
11n (HT20)	CH157	17.90	500.00	Pass
11n (HT20)	CH165	17.90	500.00	Pass
11n (HT40)	CH151	36.60	500.00	Pass
11n (HT40)	CH159	36.60	500.00	Pass
11ac (VHT20)	CH149	17.90	500.00	Pass
11ac (VHT20)	CH157	17.90	500.00	Pass
11ac (VHT20)	CH165	17.90	500.00	Pass
11ac (VHT40)	CH151	36.60	500.00	Pass
11ac (VHT40)	CH159	36.60	500.00	Pass
11ac (VHT80)	CH155	76.40	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2430416-604 Data Part 3.pdf”.

Note ²: All antenna were tested, but only the worst case has been reported in this report.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	4.15	11.00	Pass
11a	CH44	4.23	11.00	Pass
11a	CH48	4.27	11.00	Pass
11n (HT20)	CH36	4.65	11.00	Pass
11n (HT20)	CH44	4.71	11.00	Pass
11n (HT20)	CH48	4.37	11.00	Pass
11n (HT40)	CH38	-3.10	11.00	Pass
11n (HT40)	CH46	1.26	11.00	Pass
11ac (VHT20)	CH36	4.34	11.00	Pass
11ac (VHT20)	CH44	4.38	11.00	Pass
11ac (VHT20)	CH48	4.51	11.00	Pass
11ac (VHT40)	CH38	-3.15	11.00	Pass
11ac (VHT40)	CH46	1.46	11.00	Pass
11ac (VHT80)	CH42	-6.39	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	2.18	30.00	Pass
11a	CH157	1.91	30.00	Pass
11a	CH165	1.65	30.00	Pass
11n (HT20)	CH149	1.99	30.00	Pass
11n (HT20)	CH157	2.15	30.00	Pass
11n (HT20)	CH165	1.83	30.00	Pass
11n (HT40)	CH151	-1.12	30.00	Pass
11n (HT40)	CH159	-1.28	30.00	Pass
11ac (VHT20)	CH149	1.92	30.00	Pass
11ac (VHT20)	CH157	1.96	30.00	Pass
11ac (VHT20)	CH165	2.07	30.00	Pass
11ac (VHT40)	CH151	-0.83	30.00	Pass
11ac (VHT40)	CH159	-1.06	30.00	Pass
11ac (VHT80)	CH155	-2.78	30.00	Pass

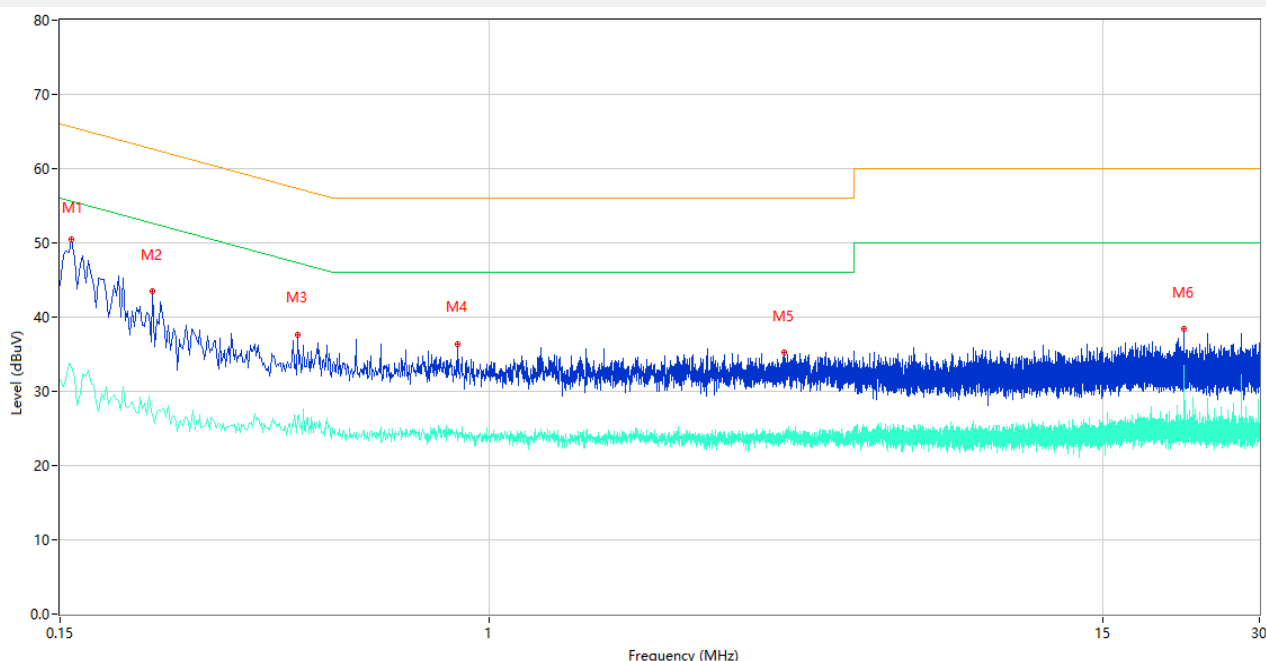
A.5 Conducted Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note²: 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.

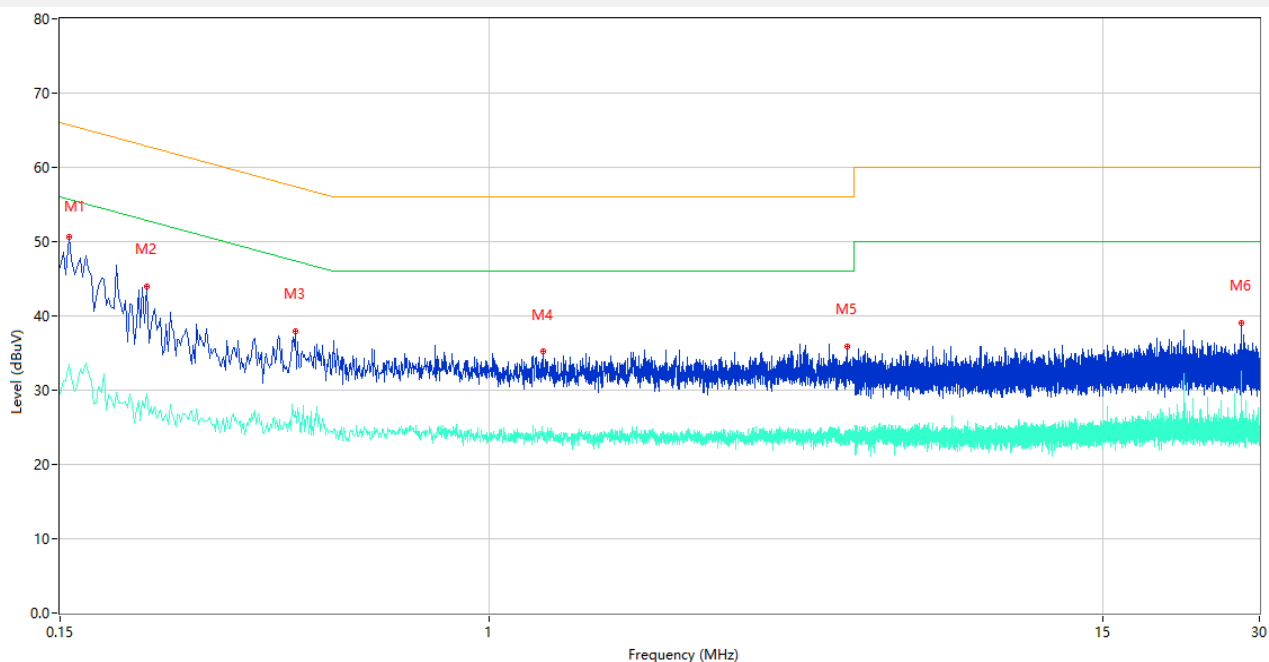
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	50.43	9.78	65.57	15.14	Peak	L	Pass
1**	0.158	33.37	9.78	55.57	22.20	AV	L	Pass
2	0.226	43.45	9.77	62.60	19.15	Peak	L	Pass
2**	0.226	26.91	9.77	52.60	25.69	AV	L	Pass
3	0.428	37.67	10.26	57.29	19.62	Peak	L	Pass
3**	0.428	26.44	10.26	47.29	20.85	AV	L	Pass
4	0.868	36.41	10.45	56.00	19.59	Peak	L	Pass
4**	0.868	24.39	10.45	46.00	21.61	AV	L	Pass
5	3.684	35.21	10.28	56.00	20.79	Peak	L	Pass
5**	3.684	23.52	10.28	46.00	22.48	AV	L	Pass
6	21.500	38.38	10.79	60.00	21.62	Peak	L	Pass
6**	21.500	31.92	10.79	50.00	18.08	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	50.65	9.78	65.67	15.02	Peak	N	Pass
1**	0.156	33.42	9.78	55.67	22.25	AV	N	Pass
2	0.220	43.99	9.77	62.82	18.83	Peak	N	Pass
2**	0.220	29.49	9.77	52.82	23.33	AV	N	Pass
3	0.424	37.97	10.30	57.37	19.40	Peak	N	Pass
3**	0.424	27.17	10.30	47.37	20.20	AV	N	Pass
4	1.266	35.17	10.47	56.00	20.83	Peak	N	Pass
4**	1.266	24.14	10.47	46.00	21.86	AV	N	Pass
5	4.860	35.88	10.23	56.00	20.12	Peak	N	Pass
5**	4.860	24.46	10.23	46.00	21.54	AV	N	Pass
6	27.646	39.11	10.72	60.00	20.89	Peak	N	Pass
6**	27.646	31.72	10.72	50.00	18.28	AV	N	Pass

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

Note¹: The symbol of "--" in the table which means not application.

Note²: 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.

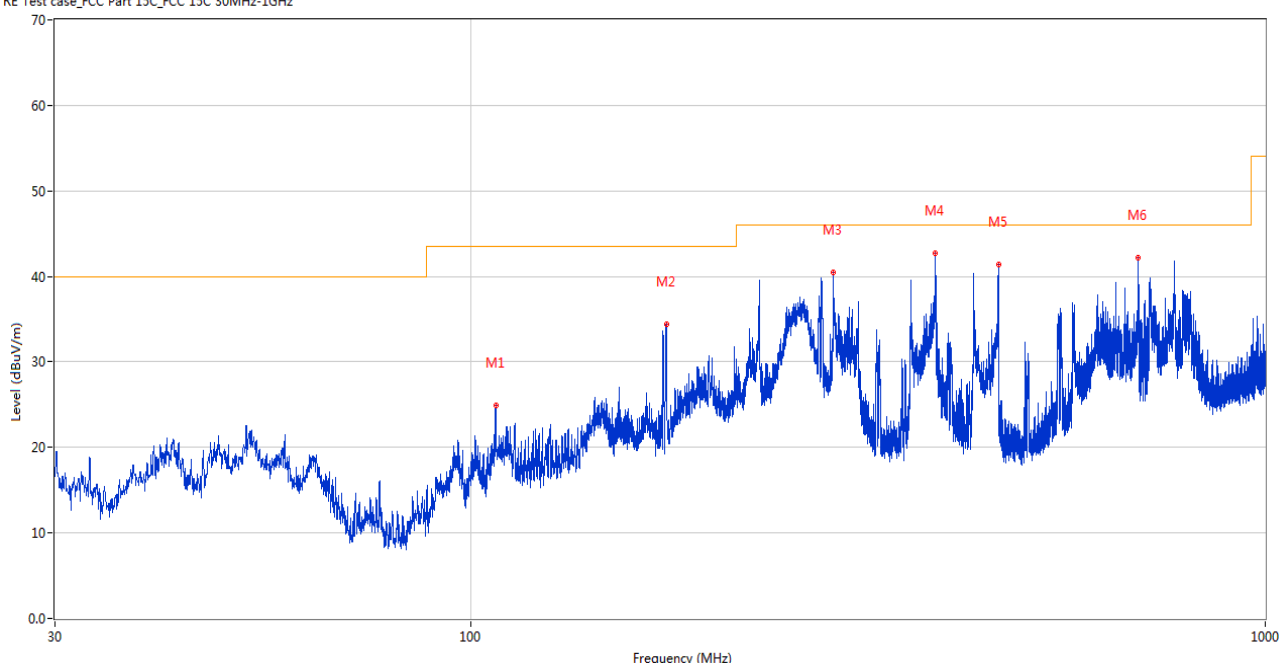
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

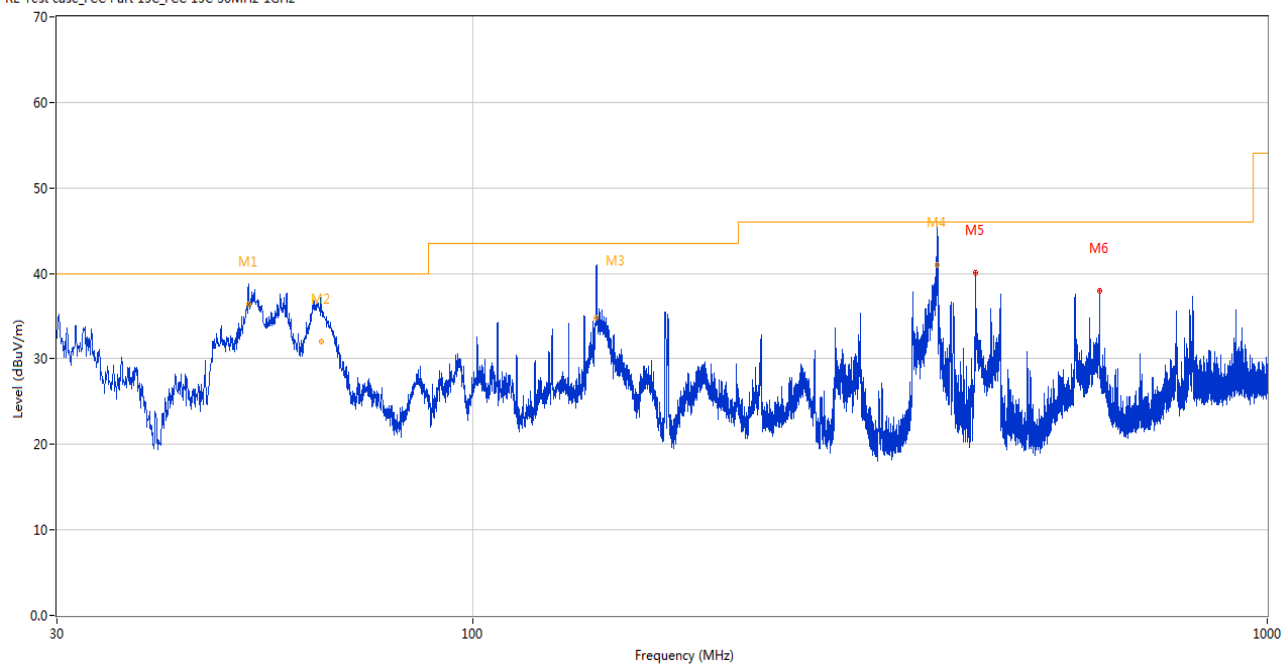
RE Test case_FCC Part 15C_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	107.551	24.95	-24.27	43.5	18.55	Peak	289.50	100	Horizontal	Pass
2	176.276	34.40	-26.33	43.5	9.10	Peak	204.30	100	Horizontal	Pass
3	286.322	40.44	-22.08	46.0	5.56	Peak	359.60	100	Horizontal	Pass
4	384.632	42.73	-19.47	46.0	3.27	Peak	66.70	100	Horizontal	Pass
5	461.795	41.35	-17.78	46.0	4.65	Peak	56.20	100	Horizontal	Pass
6	692.268	42.18	-13.18	46.0	3.82	Peak	359.40	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.224	39.32	-23.13	40.0	0.68	Peak	95.00	104	Vertical	N/A
1*	52.224	36.45	-23.13	40.0	3.55	QP	95.00	104	Vertical	Pass
2	64.510	35.93	-24.98	40.0	4.07	Peak	103.30	100	Vertical	N/A
2*	64.510	32.07	-24.98	40.0	7.93	QP	103.30	100	Vertical	Pass
3	143.150	41.36	-27.83	43.5	2.14	Peak	326.60	101	Vertical	N/A
3*	143.150	34.83	-27.83	43.5	8.67	QP	326.60	101	Vertical	Pass
4	384.599	47.74	-19.52	46.0	-1.74	Peak	20.50	104	Vertical	N/A
4*	384.599	41.02	-19.52	46.0	4.98	QP	20.50	104	Vertical	Pass
5	429.689	40.05	-18.31	46.0	5.95	Peak	26.60	100	Vertical	Pass
6	615.638	38.01	-14.14	46.0	7.99	Peak	168.70	100	Vertical	Pass

Note 1: The spurious above 18G is noise only, do not show on the report.

Note 2: All antenna were tested, but only the worst case has been reported in this report.

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1602.700	44.98	-16.93	74.0	29.02	Peak	76.00	400	Horizontal	Pass
1**	1602.700	31.58	-16.93	54.0	22.42	AV	76.00	400	Horizontal	Pass
2	4289.250	47.22	-4.41	74.0	26.78	Peak	302.00	100	Horizontal	Pass
2**	4289.250	37.95	-4.41	54.0	16.05	AV	302.00	100	Horizontal	Pass
3	5172.500	103.69	-2.94	--	--	Peak	322.00	100	Horizontal	N/A
3**	5172.500	95.15	-2.94	--	--	AV	322.00	100	Horizontal	N/A
4	7444.500	53.21	0.57	74.0	20.79	Peak	302.00	300	Horizontal	Pass
4**	7444.500	43.25	0.57	54.0	10.75	AV	302.00	300	Horizontal	Pass
5	11802.613	53.28	-0.18	74.0	20.72	Peak	230.00	100	Horizontal	Pass
5**	11802.613	44.83	-0.18	54.0	9.17	AV	230.00	100	Horizontal	Pass
6	16161.974	54.94	2.07	74.0	19.06	Peak	69.00	400	Horizontal	Pass
6**	16161.974	44.51	2.07	54.0	9.49	AV	69.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	48.57	-16.59	74.0	25.43	Peak	67.00	100	Vertical	Pass
1**	1592.800	44.18	-16.59	54.0	9.82	AV	67.00	100	Vertical	Pass
2	3633.750	47.97	-7.13	74.0	26.03	Peak	22.00	100	Vertical	Pass
2**	3633.750	36.98	-7.13	54.0	17.02	AV	22.00	100	Vertical	Pass
3	5175.750	100.02	-2.79	--	--	Peak	331.00	100	Vertical	N/A
3**	5175.750	92.51	-2.79	--	--	AV	331.00	100	Vertical	N/A
4	7705.500	53.35	1.77	74.0	20.65	Peak	64.00	200	Vertical	Pass
4**	7705.500	45.57	1.77	54.0	8.43	AV	64.00	200	Vertical	Pass
5	12513.212	53.64	1.36	74.0	20.36	Peak	310.00	150	Vertical	Pass
5**	12513.212	45.10	1.36	54.0	8.90	AV	310.00	150	Vertical	Pass
6	15896.063	55.71	2.00	74.0	18.29	Peak	356.00	300	Vertical	Pass
6**	15896.063	45.25	2.00	54.0	8.75	AV	356.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.900	49.35	-16.72	74.0	24.65	Peak	360.00	200	Horizontal	Pass
1**	1592.900	44.45	-16.72	54.0	9.55	AV	360.00	200	Horizontal	Pass
2	3637.000	50.24	-7.04	74.0	23.76	Peak	325.00	100	Horizontal	Pass
2**	3637.000	43.24	-7.04	54.0	10.76	AV	325.00	100	Horizontal	Pass
3	5225.250	104.93	-3.28	--	--	Peak	305.00	100	Horizontal	N/A
3**	5225.250	97.61	-3.28	--	--	AV	305.00	100	Horizontal	N/A
4	7677.000	53.44	1.01	74.0	20.56	Peak	285.00	200	Horizontal	Pass
4**	7677.000	43.99	1.01	54.0	10.01	AV	285.00	200	Horizontal	Pass
5	12254.576	53.05	1.05	74.0	20.95	Peak	210.00	100	Horizontal	Pass
5**	12254.576	44.36	1.05	54.0	9.64	AV	210.00	100	Horizontal	Pass
6	15665.063	54.69	1.98	74.0	19.31	Peak	358.00	300	Horizontal	Pass
6**	15665.063	45.82	1.98	54.0	8.18	AV	358.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1616.600	41.45	-16.96	74.0	32.55	Peak	353.00	400	Vertical	Pass
1**	1616.600	28.79	-16.96	54.0	25.21	AV	353.00	400	Vertical	Pass
2	4279.750	47.20	-4.66	74.0	26.80	Peak	97.00	400	Vertical	Pass
2**	4279.750	37.59	-4.66	54.0	16.41	AV	97.00	400	Vertical	Pass
3	5217.000	99.73	-2.95	--	--	Peak	341.00	100	Vertical	N/A
3**	5217.000	92.39	-2.95	--	--	AV	341.00	100	Vertical	N/A
4	7413.250	53.26	0.73	74.0	20.74	Peak	295.00	100	Vertical	Pass
4**	7413.250	45.04	0.73	54.0	8.96	AV	295.00	100	Vertical	Pass
5	12268.349	53.26	0.90	74.0	20.74	Peak	147.00	100	Vertical	Pass
5**	12268.349	43.56	0.90	54.0	10.44	AV	147.00	100	Vertical	Pass
6	16129.688	54.73	1.99	74.0	19.27	Peak	132.00	100	Vertical	Pass
6**	16129.688	46.04	1.99	54.0	7.96	AV	132.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.600	49.80	-16.58	74.0	24.20	Peak	43.00	200	Horizontal	Pass
1**	1592.600	45.88	-16.58	54.0	8.12	AV	43.00	200	Horizontal	Pass
2	3635.750	49.78	-7.01	74.0	24.22	Peak	360.00	100	Horizontal	Pass
2**	3635.750	44.55	-7.01	54.0	9.45	AV	360.00	100	Horizontal	Pass
3	5234.750	105.05	-2.95	--	--	Peak	313.00	150	Horizontal	N/A
3**	5234.750	98.90	-2.95	--	--	AV	313.00	150	Horizontal	N/A
4	7713.250	53.38	1.67	74.0	20.62	Peak	143.00	100	Horizontal	Pass
4**	7713.250	45.24	1.67	54.0	8.76	AV	143.00	100	Horizontal	Pass
5	11755.350	53.22	-0.19	74.0	20.78	Peak	231.00	150	Horizontal	Pass
5**	11755.350	43.88	-0.19	54.0	10.12	AV	231.00	150	Horizontal	Pass
6	16074.037	55.10	1.41	74.0	18.90	Peak	243.00	100	Horizontal	Pass
6**	16074.037	45.54	1.41	54.0	8.46	AV	243.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.900	48.67	-16.72	74.0	25.33	Peak	61.00	300	Vertical	Pass
1**	1592.900	44.58	-16.72	54.0	9.42	AV	61.00	300	Vertical	Pass
2	3635.750	47.66	-7.01	74.0	26.34	Peak	45.00	400	Vertical	Pass
2**	3635.750	40.38	-7.01	54.0	13.62	AV	45.00	400	Vertical	Pass
3	5234.500	101.22	-2.77	--	--	Peak	347.00	150	Vertical	N/A
3**	5234.500	93.36	-2.77	--	--	AV	347.00	150	Vertical	N/A
4	7420.250	53.27	1.47	74.0	20.73	Peak	212.00	400	Vertical	Pass
4**	7420.250	44.99	1.47	54.0	9.01	AV	212.00	400	Vertical	Pass
5	12245.313	54.01	1.04	74.0	19.99	Peak	222.00	100	Vertical	Pass
5**	12245.313	43.44	1.04	54.0	10.56	AV	222.00	100	Vertical	Pass
6	16132.050	54.87	2.01	74.0	19.13	Peak	225.00	100	Vertical	Pass
6**	16132.050	45.51	2.01	54.0	8.49	AV	225.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1454.800	43.75	-17.10	74.0	30.25	Peak	74.00	400	Horizontal	Pass
1**	1454.800	34.36	-17.10	54.0	19.64	AV	74.00	400	Horizontal	Pass
2	4176.250	46.95	-5.18	74.0	27.05	Peak	41.00	200	Horizontal	Pass
2**	4176.250	38.15	-5.18	54.0	15.85	AV	41.00	200	Horizontal	Pass
3	5184.750	103.98	-2.40	--	--	Peak	305.00	100	Horizontal	N/A
3**	5184.750	96.72	-2.40	--	--	AV	305.00	100	Horizontal	N/A
4	7708.750	54.25	1.82	74.0	19.75	Peak	61.00	300	Horizontal	Pass
4**	7708.750	45.47	1.82	54.0	8.53	AV	61.00	300	Horizontal	Pass
5	11754.637	52.97	-0.19	74.0	21.03	Peak	17.00	100	Horizontal	Pass
5**	11754.637	42.92	-0.19	54.0	11.08	AV	17.00	100	Horizontal	Pass
6	16088.475	54.70	1.60	74.0	19.30	Peak	127.00	300	Horizontal	Pass
6**	16088.475	45.46	1.60	54.0	8.54	AV	127.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.400	49.69	-16.74	74.0	24.31	Peak	67.00	400	Vertical	Pass
1**	1592.400	42.66	-16.74	54.0	11.34	AV	67.00	400	Vertical	Pass
2	3635.750	48.80	-7.01	74.0	25.20	Peak	24.00	300	Vertical	Pass
2**	3635.750	42.26	-7.01	54.0	11.74	AV	24.00	300	Vertical	Pass
3	5174.250	100.48	-2.59	--	--	Peak	324.00	200	Vertical	N/A
3**	5174.250	93.45	-2.59	--	--	AV	324.00	200	Vertical	N/A
4	7700.000	53.85	1.10	74.0	20.15	Peak	324.00	100	Vertical	Pass
4**	7700.000	44.81	1.10	54.0	9.19	AV	324.00	100	Vertical	Pass
5	12243.651	53.30	1.01	74.0	20.70	Peak	99.00	200	Vertical	Pass
5**	12243.651	43.93	1.01	54.0	10.07	AV	99.00	200	Vertical	Pass
6	16083.225	54.81	1.53	74.0	19.19	Peak	360.00	200	Vertical	Pass
6**	16083.225	45.69	1.53	54.0	8.31	AV	360.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.900	45.82	-16.85	74.0	28.18	Peak	77.00	100	Horizontal	Pass
1**	1497.900	35.44	-16.85	54.0	18.56	AV	77.00	100	Horizontal	Pass
2	4179.500	47.67	-5.21	74.0	26.33	Peak	0.00	400	Horizontal	Pass
2**	4179.500	38.36	-5.21	54.0	15.64	AV	0.00	400	Horizontal	Pass
3	5214.250	105.12	-2.58	--	--	Peak	302.00	100	Horizontal	N/A
3**	5214.250	97.40	-2.58	--	--	AV	302.00	100	Horizontal	N/A
4	7708.750	53.64	1.82	74.0	20.36	Peak	78.00	200	Horizontal	Pass
4**	7708.750	45.31	1.82	54.0	8.69	AV	78.00	200	Horizontal	Pass
5	12525.088	52.94	1.29	74.0	21.06	Peak	249.00	200	Horizontal	Pass
5**	12525.088	43.46	1.29	54.0	10.54	AV	249.00	200	Horizontal	Pass
6	16104.750	55.15	1.79	74.0	18.85	Peak	37.00	300	Horizontal	Pass
6**	16104.750	46.29	1.79	54.0	7.71	AV	37.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	49.17	-16.59	74.0	24.83	Peak	67.00	200	Vertical	Pass
1**	1592.800	44.97	-16.59	54.0	9.03	AV	67.00	200	Vertical	Pass
2	4315.250	47.66	-4.91	74.0	26.34	Peak	360.00	300	Vertical	Pass
2**	4315.250	38.80	-4.91	54.0	15.20	AV	360.00	300	Vertical	Pass
3	5215.500	100.84	-2.50	--	--	Peak	347.00	150	Vertical	N/A
3**	5215.500	94.50	-2.50	--	--	AV	347.00	150	Vertical	N/A
4	7704.750	53.78	2.00	74.0	20.22	Peak	347.00	100	Vertical	Pass
4**	7704.750	45.22	2.00	54.0	8.78	AV	347.00	100	Vertical	Pass
5	12259.800	53.78	1.00	74.0	20.22	Peak	283.00	100	Vertical	Pass
5**	12259.800	44.16	1.00	54.0	9.84	AV	283.00	100	Vertical	Pass
6	16123.650	55.31	1.94	74.0	18.69	Peak	136.00	300	Vertical	Pass
6**	16123.650	46.45	1.94	54.0	7.55	AV	136.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.000	50.78	-16.84	74.0	23.22	Peak	51.00	300	Horizontal	Pass
1**	1593.000	44.98	-16.84	54.0	9.02	AV	51.00	300	Horizontal	Pass
2	3635.250	49.39	-7.13	74.0	24.61	Peak	0.00	100	Horizontal	Pass
2**	3635.250	43.83	-7.13	54.0	10.17	AV	0.00	100	Horizontal	Pass
3	5233.750	105.50	-2.94	--	--	Peak	328.00	150	Horizontal	N/A
3**	5233.750	98.62	-2.94	--	--	AV	328.00	150	Horizontal	N/A
4	7711.750	54.37	2.04	74.0	19.63	Peak	225.00	100	Horizontal	Pass
4**	7711.750	45.66	2.04	54.0	8.34	AV	225.00	100	Horizontal	Pass
5	12545.275	52.71	1.18	74.0	21.29	Peak	339.00	200	Horizontal	Pass
5**	12545.275	44.02	1.18	54.0	9.98	AV	339.00	200	Horizontal	Pass
6	15923.888	54.80	1.61	74.0	19.20	Peak	74.00	400	Horizontal	Pass
6**	15923.888	44.96	1.61	54.0	9.04	AV	74.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.900	48.99	-16.72	74.0	25.01	Peak	65.00	300	Vertical	Pass
1**	1592.900	45.67	-16.72	54.0	8.33	AV	65.00	300	Vertical	Pass
2	3636.500	48.01	-7.22	74.0	25.99	Peak	42.00	100	Vertical	Pass
2**	3636.500	40.10	-7.22	54.0	13.90	AV	42.00	100	Vertical	Pass
3	5243.250	99.81	-3.05	--	--	Peak	339.00	200	Vertical	N/A
3**	5243.250	93.02	-3.05	--	--	AV	339.00	200	Vertical	N/A
4	7686.250	53.26	1.35	74.0	20.74	Peak	64.00	400	Vertical	Pass
4**	7686.250	45.03	1.35	54.0	8.97	AV	64.00	400	Vertical	Pass
5	12406.100	53.41	1.10	74.0	20.59	Peak	93.00	150	Vertical	Pass
5**	12406.100	43.53	1.10	54.0	10.47	AV	93.00	150	Vertical	Pass
6	15893.701	54.93	1.98	74.0	19.07	Peak	190.00	300	Vertical	Pass
6**	15893.701	45.40	1.98	54.0	8.60	AV	190.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.500	50.40	-16.66	74.0	23.60	Peak	81.00	300	Horizontal	Pass
1**	1592.500	44.45	-16.66	54.0	9.55	AV	81.00	300	Horizontal	Pass
2	3635.500	49.39	-7.04	74.0	24.61	Peak	0.00	200	Horizontal	Pass
2**	3635.500	44.15	-7.04	54.0	9.85	AV	0.00	200	Horizontal	Pass
3	5204.500	102.48	-2.54	--	--	Peak	324.00	150	Horizontal	N/A
3**	5204.500	94.11	-2.54	--	--	AV	324.00	150	Horizontal	N/A
4	7705.250	54.56	2.03	74.0	19.44	Peak	36.00	200	Horizontal	Pass
4**	7705.250	45.57	2.03	54.0	8.43	AV	36.00	200	Horizontal	Pass
5	11763.900	53.42	-0.18	74.0	20.58	Peak	320.00	100	Horizontal	Pass
5**	11763.900	43.38	-0.18	54.0	10.62	AV	320.00	100	Horizontal	Pass
6	16130.475	55.13	2.00	74.0	18.87	Peak	232.00	200	Horizontal	Pass
6**	16130.475	45.80	2.00	54.0	8.20	AV	232.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.100	49.26	-16.97	74.0	24.74	Peak	62.00	400	Vertical	Pass
1**	1593.100	46.26	-16.97	54.0	7.74	AV	62.00	400	Vertical	Pass
2	3635.500	47.76	-7.04	74.0	26.24	Peak	42.00	300	Vertical	Pass
2**	3635.500	41.48	-7.04	54.0	12.52	AV	42.00	300	Vertical	Pass
3	5205.500	97.88	-2.35	--	--	Peak	341.00	200	Vertical	N/A
3**	5205.500	91.14	-2.35	--	--	AV	341.00	200	Vertical	N/A
4	7428.000	53.88	1.21	74.0	20.12	Peak	341.00	300	Vertical	Pass
4**	7428.000	44.00	1.21	54.0	10.00	AV	341.00	300	Vertical	Pass
5	12408.713	53.26	1.09	74.0	20.74	Peak	360.00	200	Vertical	Pass
5**	12408.713	43.43	1.09	54.0	10.57	AV	360.00	200	Vertical	Pass
6	16108.425	54.27	1.82	74.0	19.73	Peak	55.00	300	Vertical	Pass
6**	16108.425	44.59	1.82	54.0	9.41	AV	55.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	51.04	-16.59	74.0	22.96	Peak	52.00	100	Horizontal	Pass
1**	1592.800	45.32	-16.59	54.0	8.68	AV	52.00	100	Horizontal	Pass
2	3635.750	49.51	-7.01	74.0	24.49	Peak	360.00	400	Horizontal	Pass
2**	3635.750	44.93	-7.01	54.0	9.07	AV	360.00	400	Horizontal	Pass
3	5243.000	102.15	-3.12	--	--	Peak	324.00	200	Horizontal	N/A
3**	5243.000	94.34	-3.12	--	--	AV	324.00	200	Horizontal	N/A
4	7664.750	53.97	1.19	74.0	20.03	Peak	347.00	200	Horizontal	Pass
4**	7664.750	43.74	1.19	54.0	10.26	AV	347.00	200	Horizontal	Pass
5	12390.187	52.81	1.06	74.0	21.19	Peak	81.00	150	Horizontal	Pass
5**	12390.187	44.34	1.06	54.0	9.66	AV	81.00	150	Horizontal	Pass
6	15893.963	54.54	1.98	74.0	19.46	Peak	75.00	200	Horizontal	Pass
6**	15893.963	45.60	1.98	54.0	8.40	AV	75.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	48.97	-16.59	74.0	25.03	Peak	62.00	200	Vertical	Pass
1**	1592.800	45.79	-16.59	54.0	8.21	AV	62.00	200	Vertical	Pass
2	4120.750	47.22	-5.43	74.0	26.78	Peak	357.00	200	Vertical	Pass
2**	4120.750	39.74	-5.43	54.0	14.26	AV	357.00	200	Vertical	Pass
3	5233.250	97.80	-2.92	--	--	Peak	357.00	200	Vertical	N/A
3**	5233.250	90.03	-2.92	--	--	AV	357.00	200	Vertical	N/A
4	7315.000	53.09	0.59	74.0	20.91	Peak	360.00	100	Vertical	Pass
4**	7315.000	44.30	0.59	54.0	9.70	AV	360.00	100	Vertical	Pass
5	12266.687	53.10	0.92	74.0	20.90	Peak	360.00	200	Vertical	Pass
5**	12266.687	43.80	0.92	54.0	10.20	AV	360.00	200	Vertical	Pass
6	16121.287	54.89	1.92	74.0	19.11	Peak	283.00	300	Vertical	Pass
6**	16121.287	45.98	1.92	54.0	8.02	AV	283.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.900	44.04	-16.99	74.0	29.96	Peak	88.00	200	Horizontal	Pass
1**	1597.900	33.13	-16.99	54.0	20.87	AV	88.00	200	Horizontal	Pass
2	4255.000	47.49	-4.05	74.0	26.51	Peak	263.00	100	Horizontal	Pass
2**	4255.000	38.36	-4.05	54.0	15.64	AV	263.00	100	Horizontal	Pass
3	5174.000	103.87	-2.57	--	--	Peak	303.00	150	Horizontal	N/A
3**	5174.000	96.87	-2.57	--	--	AV	303.00	150	Horizontal	N/A
4	7672.500	53.45	0.72	74.0	20.55	Peak	142.00	300	Horizontal	Pass
4**	7672.500	44.47	0.72	54.0	9.53	AV	142.00	300	Horizontal	Pass
5	12267.162	53.18	0.92	74.0	20.82	Peak	312.00	200	Horizontal	Pass
5**	12267.162	43.71	0.92	54.0	10.29	AV	312.00	200	Horizontal	Pass
6	16116.825	54.85	1.89	74.0	19.15	Peak	347.00	100	Horizontal	Pass
6**	16116.825	45.64	1.89	54.0	8.36	AV	347.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.900	48.51	-16.72	74.0	25.49	Peak	71.00	200	Vertical	Pass
1**	1592.900	44.29	-16.72	54.0	9.71	AV	71.00	200	Vertical	Pass
2	3635.000	47.78	-7.18	74.0	26.22	Peak	37.00	300	Vertical	Pass
2**	3635.000	41.31	-7.18	54.0	12.69	AV	37.00	300	Vertical	Pass
3	5173.500	99.65	-2.80	--	--	Peak	317.00	150	Vertical	N/A
3**	5173.500	93.25	-2.80	--	--	AV	317.00	150	Vertical	N/A
4	7707.000	53.48	1.71	74.0	20.52	Peak	10.00	300	Vertical	Pass
4**	7707.000	45.49	1.71	54.0	8.51	AV	10.00	300	Vertical	Pass
5	11806.175	53.36	-0.22	74.0	20.64	Peak	4.00	150	Vertical	Pass
5**	11806.175	43.95	-0.22	54.0	10.05	AV	4.00	150	Vertical	Pass
6	16096.088	54.55	1.70	74.0	19.45	Peak	30.00	200	Vertical	Pass
6**	16096.088	45.83	1.70	54.0	8.17	AV	30.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1558.200	49.34	-17.41	74.0	24.66	Peak	51.00	300	Horizontal	Pass
1**	1558.200	44.91	-17.41	54.0	9.09	AV	51.00	300	Horizontal	Pass
2	3635.750	49.82	-7.01	74.0	24.18	Peak	346.00	200	Horizontal	Pass
2**	3635.750	44.63	-7.01	54.0	9.37	AV	346.00	200	Horizontal	Pass
3	5215.000	105.17	-2.67	--	--	Peak	325.00	100	Horizontal	N/A
3**	5215.000	97.18	-2.67	--	--	AV	325.00	100	Horizontal	N/A
4	7432.500	53.65	0.61	74.0	20.35	Peak	0.00	400	Horizontal	Pass
4**	7432.500	43.40	0.61	54.0	10.60	AV	0.00	400	Horizontal	Pass
5	12256.950	53.22	1.03	74.0	20.78	Peak	178.00	100	Horizontal	Pass
5**	12256.950	44.10	1.03	54.0	9.90	AV	178.00	100	Horizontal	Pass
6	16127.588	54.87	1.97	74.0	19.13	Peak	258.00	300	Horizontal	Pass
6**	16127.588	46.16	1.97	54.0	7.84	AV	258.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1492.900	44.43	-17.31	74.0	29.57	Peak	0.00	400	Vertical	Pass
1**	1492.900	31.53	-17.31	54.0	22.47	AV	0.00	400	Vertical	Pass
2	4387.000	47.03	-4.61	74.0	26.97	Peak	360.00	400	Vertical	Pass
2**	4387.000	38.13	-4.61	54.0	15.87	AV	360.00	400	Vertical	Pass
3	5214.250	100.05	-2.58	--	--	Peak	310.00	200	Vertical	N/A
3**	5214.250	92.51	-2.58	--	--	AV	310.00	200	Vertical	N/A
4	7662.000	53.68	0.98	74.0	20.32	Peak	310.00	400	Vertical	Pass
4**	7662.000	44.28	0.98	54.0	9.72	AV	310.00	400	Vertical	Pass
5	11782.901	53.87	-0.16	74.0	20.13	Peak	111.00	150	Vertical	Pass
5**	11782.901	43.11	-0.16	54.0	10.89	AV	111.00	150	Vertical	Pass
6	15678.188	54.97	1.84	74.0	19.03	Peak	0.00	100	Vertical	Pass
6**	15678.188	44.80	1.84	54.0	9.20	AV	0.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.700	49.47	-16.50	74.0	24.53	Peak	92.00	200	Horizontal	Pass
1**	1592.700	45.59	-16.50	54.0	8.41	AV	92.00	200	Horizontal	Pass
2	3635.250	50.18	-7.13	74.0	23.82	Peak	357.00	100	Horizontal	Pass
2**	3635.250	44.43	-7.13	54.0	9.57	AV	357.00	100	Horizontal	Pass
3	5236.250	105.64	-2.94	--	--	Peak	333.00	100	Horizontal	N/A
3**	5236.250	98.60	-2.94	--	--	AV	333.00	100	Horizontal	N/A
4	7704.750	53.92	2.00	74.0	20.08	Peak	306.00	300	Horizontal	Pass
4**	7704.750	45.11	2.00	54.0	8.89	AV	306.00	300	Horizontal	Pass
5	12203.037	52.75	0.45	74.0	21.25	Peak	210.00	200	Horizontal	Pass
5**	12203.037	43.61	0.45	54.0	10.39	AV	210.00	200	Horizontal	Pass
6	15894.225	54.45	1.98	74.0	19.55	Peak	46.00	400	Horizontal	Pass
6**	15894.225	45.18	1.98	54.0	8.82	AV	46.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	49.92	-16.59	74.0	24.08	Peak	62.00	100	Vertical	Pass
1**	1592.800	46.63	-16.59	54.0	7.37	AV	62.00	100	Vertical	Pass
2	3636.500	47.60	-7.22	74.0	26.40	Peak	43.00	300	Vertical	Pass
2**	3636.500	41.18	-7.22	54.0	12.82	AV	43.00	300	Vertical	Pass
3	5245.250	100.14	-3.08	--	--	Peak	333.00	100	Vertical	N/A
3**	5245.250	92.90	-3.08	--	--	AV	333.00	100	Vertical	N/A
4	7612.000	53.85	0.26	74.0	20.15	Peak	19.00	200	Vertical	Pass
4**	7612.000	43.51	0.26	54.0	10.49	AV	19.00	200	Vertical	Pass
5	12365.250	53.59	0.93	74.0	20.41	Peak	57.00	200	Vertical	Pass
5**	12365.250	43.15	0.93	54.0	10.85	AV	57.00	200	Vertical	Pass
6	16050.150	55.17	1.09	74.0	18.83	Peak	318.00	300	Vertical	Pass
6**	16050.150	45.52	1.09	54.0	8.48	AV	318.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.700	52.45	-16.50	74.0	21.55	Peak	47.00	200	Horizontal	Pass
1**	1592.700	45.10	-16.50	54.0	8.90	AV	47.00	200	Horizontal	Pass
2	3635.000	49.62	-7.18	74.0	24.38	Peak	344.00	100	Horizontal	Pass
2**	3635.000	42.71	-7.18	54.0	11.29	AV	344.00	100	Horizontal	Pass
3	5201.000	101.96	-2.54	--	--	Peak	344.00	100	Horizontal	N/A
3**	5201.000	93.70	-2.54	--	--	AV	344.00	100	Horizontal	N/A
4	7695.000	54.28	1.02	74.0	19.72	Peak	18.00	400	Horizontal	Pass
4**	7695.000	44.25	1.02	54.0	9.75	AV	18.00	400	Horizontal	Pass
5	12264.549	52.89	0.94	74.0	21.11	Peak	141.00	150	Horizontal	Pass
5**	12264.549	44.60	0.94	54.0	9.40	AV	141.00	150	Horizontal	Pass
6	16115.775	54.90	1.88	74.0	19.10	Peak	203.00	200	Horizontal	Pass
6**	16115.775	45.64	1.88	54.0	8.36	AV	203.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.000	48.60	-16.84	74.0	25.40	Peak	67.00	400	Vertical	Pass
1**	1593.000	44.02	-16.84	54.0	9.98	AV	67.00	400	Vertical	Pass
2	3636.000	47.61	-7.03	74.0	26.39	Peak	41.00	300	Vertical	Pass
2**	3636.000	41.60	-7.03	54.0	12.40	AV	41.00	300	Vertical	Pass
3	5177.250	97.47	-2.66	--	--	Peak	340.00	150	Vertical	N/A
3**	5177.250	88.55	-2.66	--	--	AV	340.00	150	Vertical	N/A
4	7690.750	53.65	0.84	74.0	20.35	Peak	225.00	200	Vertical	Pass
4**	7690.750	45.08	0.84	54.0	8.92	AV	225.00	200	Vertical	Pass
5	12265.500	53.12	0.93	74.0	20.88	Peak	50.00	150	Vertical	Pass
5**	12265.500	44.44	0.93	54.0	9.56	AV	50.00	150	Vertical	Pass
6	16118.925	54.73	1.90	74.0	19.27	Peak	87.00	300	Vertical	Pass
6**	16118.925	45.58	1.90	54.0	8.42	AV	87.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.700	51.78	-16.50	74.0	22.22	Peak	49.00	100	Horizontal	Pass
1**	1592.700	45.86	-16.50	54.0	8.14	AV	49.00	100	Horizontal	Pass
2	3635.500	50.67	-7.04	74.0	23.33	Peak	349.00	300	Horizontal	Pass
2**	3635.500	44.35	-7.04	54.0	9.65	AV	349.00	300	Horizontal	Pass
3	5227.750	102.60	-3.16	--	--	Peak	324.00	200	Horizontal	N/A
3**	5227.750	94.35	-3.16	--	--	AV	324.00	200	Horizontal	N/A
4	7702.000	54.67	1.48	74.0	19.33	Peak	184.00	300	Horizontal	Pass
4**	7702.000	44.52	1.48	54.0	9.48	AV	184.00	300	Horizontal	Pass
5	12507.037	53.17	1.40	74.0	20.83	Peak	353.00	200	Horizontal	Pass
5**	12507.037	43.33	1.40	54.0	10.67	AV	353.00	200	Horizontal	Pass
6	15918.375	55.27	1.71	74.0	18.73	Peak	334.00	400	Horizontal	Pass
6**	15918.375	45.00	1.71	54.0	9.00	AV	334.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	48.67	-16.59	74.0	25.33	Peak	59.00	200	Vertical	Pass
1**	1592.800	45.93	-16.59	54.0	8.07	AV	59.00	200	Vertical	Pass
2	3634.250	47.56	-7.31	74.0	26.44	Peak	38.00	100	Vertical	Pass
2**	3634.250	38.16	-7.31	54.0	15.84	AV	38.00	100	Vertical	Pass
3	5214.500	97.84	-2.61	--	--	Peak	356.00	200	Vertical	N/A
3**	5214.500	89.97	-2.61	--	--	AV	356.00	200	Vertical	N/A
4	7667.000	53.84	0.90	74.0	20.16	Peak	356.00	400	Vertical	Pass
4**	7667.000	44.04	0.90	54.0	9.96	AV	356.00	400	Vertical	Pass
5	12513.450	53.68	1.36	74.0	20.32	Peak	146.00	150	Vertical	Pass
5**	12513.450	44.04	1.36	54.0	9.96	AV	146.00	150	Vertical	Pass
6	15892.388	55.20	1.97	74.0	18.80	Peak	29.00	200	Vertical	Pass
6**	15892.388	45.43	1.97	54.0	8.57	AV	29.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1558.300	50.39	-17.44	74.0	23.61	Peak	52.00	200	Horizontal	Pass
1**	1558.300	43.89	-17.44	54.0	10.11	AV	52.00	200	Horizontal	Pass
2	3635.500	50.16	-7.04	74.0	23.84	Peak	96.00	100	Horizontal	Pass
2**	3635.500	44.96	-7.04	54.0	9.04	AV	96.00	100	Horizontal	Pass
3	5236.750	99.88	-2.91	--	--	Peak	339.00	200	Horizontal	N/A
3**	5236.750	93.27	-2.91	--	--	AV	339.00	200	Horizontal	N/A
4	7482.500	53.73	1.02	74.0	20.27	Peak	157.00	100	Horizontal	Pass
4**	7482.500	44.40	1.02	54.0	9.60	AV	157.00	100	Horizontal	Pass
5	11999.263	53.59	0.45	74.0	20.41	Peak	190.00	100	Horizontal	Pass
5**	11999.263	43.03	0.45	54.0	10.97	AV	190.00	100	Horizontal	Pass
6	16091.625	55.04	1.64	74.0	18.96	Peak	94.00	300	Horizontal	Pass
6**	16091.625	46.26	1.64	54.0	7.74	AV	94.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.400	49.13	-16.74	74.0	24.87	Peak	67.00	400	Vertical	Pass
1**	1592.400	44.96	-16.74	54.0	9.04	AV	67.00	400	Vertical	Pass
2	4300.750	47.16	-5.04	74.0	26.84	Peak	341.00	300	Vertical	Pass
2**	4300.750	38.58	-5.04	54.0	15.42	AV	341.00	300	Vertical	Pass
3	5219.750	95.32	-2.97	--	245.68	Peak	341.00	150	Vertical	N/A
3**	5219.750	87.81	-2.97	--	-87.81	AV	341.00	150	Vertical	N/A
4	7510.000	54.00	0.35	74.0	20.00	Peak	247.00	200	Vertical	Pass
4**	7510.000	43.97	0.35	54.0	10.03	AV	247.00	200	Vertical	Pass
5	12256.713	53.80	1.03	74.0	20.20	Peak	134.00	100	Vertical	Pass
5**	12256.713	44.32	1.03	54.0	9.68	AV	134.00	100	Vertical	Pass
6	15692.100	54.55	1.69	74.0	19.45	Peak	195.00	400	Vertical	Pass
6**	15692.100	46.13	1.69	54.0	7.87	AV	195.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	48.68	-16.59	74.0	25.32	Peak	69.00	200	Horizontal	Pass
1**	1592.800	44.26	-16.59	54.0	9.74	AV	69.00	200	Horizontal	Pass
2	3635.500	49.68	-7.04	74.0	24.32	Peak	0.00	300	Horizontal	Pass
2**	3635.500	43.43	-7.04	54.0	10.57	AV	0.00	300	Horizontal	Pass
3	5748.500	101.39	-2.06	--	--	Peak	283.00	200	Horizontal	N/A
3**	5748.500	93.39	-2.06	--	--	AV	283.00	200	Horizontal	N/A
4	7708.000	53.49	1.69	74.0	20.51	Peak	100.00	100	Horizontal	Pass
4**	7708.000	44.60	1.69	54.0	9.40	AV	100.00	100	Horizontal	Pass
5	11749.175	53.24	-0.20	74.0	20.76	Peak	0.00	200	Horizontal	Pass
5**	11749.175	43.41	-0.20	54.0	10.59	AV	0.00	200	Horizontal	Pass
6	16104.487	55.17	1.79	74.0	18.83	Peak	0.00	300	Horizontal	Pass
6**	16104.487	46.28	1.79	54.0	7.72	AV	0.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	50.30	-16.59	74.0	23.70	Peak	74.00	400	Vertical	Pass
1**	1592.800	45.92	-16.59	54.0	8.08	AV	74.00	400	Vertical	Pass
2	3634.750	48.28	-7.22	74.0	25.72	Peak	20.00	200	Vertical	Pass
2**	3634.750	37.94	-7.22	54.0	16.06	AV	20.00	200	Vertical	Pass
3	5750.500	98.42	-2.12	--	--	Peak	300.00	100	Vertical	N/A
3**	5750.500	91.74	-2.12	--	--	AV	300.00	100	Vertical	N/A
4	7419.250	54.44	1.23	74.0	19.56	Peak	62.00	400	Vertical	Pass
4**	7419.250	44.94	1.23	54.0	9.06	AV	62.00	400	Vertical	Pass
5	12264.787	53.56	0.94	74.0	20.44	Peak	172.00	150	Vertical	Pass
5**	12264.787	44.32	0.94	54.0	9.68	AV	172.00	150	Vertical	Pass
6	16050.413	54.81	1.10	74.0	19.19	Peak	309.00	400	Vertical	Pass
6**	16050.413	44.72	1.10	54.0	9.28	AV	309.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.600	50.97	-16.58	74.0	23.03	Peak	95.00	100	Horizontal	Pass
1**	1592.600	43.74	-16.58	54.0	10.26	AV	95.00	100	Horizontal	Pass
2	3635.750	49.79	-7.01	74.0	24.21	Peak	314.00	200	Horizontal	Pass
2**	3635.750	45.09	-7.01	54.0	8.91	AV	314.00	200	Horizontal	Pass
3	5791.750	103.32	-2.40	--	--	Peak	0.00	100	Horizontal	N/A
3**	5791.750	95.62	-2.40	--	--	AV	0.00	100	Horizontal	N/A
4	7706.000	55.15	1.53	74.0	18.85	Peak	314.00	200	Horizontal	Pass
4**	7706.000	45.68	1.53	54.0	8.32	AV	314.00	200	Horizontal	Pass
5	12408.950	52.93	1.09	74.0	21.07	Peak	303.00	200	Horizontal	Pass
5**	12408.950	43.57	1.09	54.0	10.43	AV	303.00	200	Horizontal	Pass
6	16135.463	55.15	2.04	74.0	18.85	Peak	268.00	200	Horizontal	Pass
6**	16135.463	45.72	2.04	54.0	8.28	AV	268.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.700	49.47	-16.50	74.0	24.53	Peak	78.00	300	Vertical	Pass
1**	1592.700	45.83	-16.50	54.0	8.17	AV	78.00	300	Vertical	Pass
2	3635.500	47.03	-7.04	74.0	26.97	Peak	30.00	100	Vertical	Pass
2**	3635.500	40.96	-7.04	54.0	13.04	AV	30.00	100	Vertical	Pass
3	5792.250	101.26	-2.24	--	--	Peak	312.00	150	Vertical	N/A
3**	5792.250	93.83	-2.24	--	--	AV	312.00	150	Vertical	N/A
4	7685.750	53.80	1.54	74.0	20.20	Peak	210.00	200	Vertical	Pass
4**	7685.750	44.27	1.54	54.0	9.73	AV	210.00	200	Vertical	Pass
5	11764.850	53.34	-0.18	74.0	20.66	Peak	23.00	150	Vertical	Pass
5**	11764.850	43.37	-0.18	54.0	10.63	AV	23.00	150	Vertical	Pass
6	15645.638	54.95	2.03	74.0	19.05	Peak	68.00	300	Vertical	Pass
6**	15645.638	45.25	2.03	54.0	8.75	AV	68.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1558.000	49.97	-17.33	74.0	24.03	Peak	60.00	200	Horizontal	Pass
1**	1558.000	45.08	-17.33	54.0	8.92	AV	60.00	200	Horizontal	Pass
2	3636.000	49.40	-7.03	74.0	24.60	Peak	360.00	100	Horizontal	Pass
2**	3636.000	44.89	-7.03	54.0	9.11	AV	360.00	100	Horizontal	Pass
3	5817.750	103.77	-2.50	--	--	Peak	16.00	150	Horizontal	N/A
3**	5817.750	95.64	-2.50	--	--	AV	16.00	150	Horizontal	N/A
4	7712.750	53.59	1.76	74.0	20.41	Peak	138.00	100	Horizontal	Pass
4**	7712.750	45.61	1.76	54.0	8.39	AV	138.00	100	Horizontal	Pass
5	11656.787	55.45	-1.24	74.0	18.55	Peak	307.00	100	Horizontal	Pass
5**	11656.787	46.60	-1.24	54.0	7.40	AV	307.00	100	Horizontal	Pass
6	15902.625	55.08	1.98	74.0	18.92	Peak	30.00	200	Horizontal	Pass
6**	15902.625	45.84	1.98	54.0	8.16	AV	30.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.600	49.02	-16.58	74.0	24.98	Peak	43.00	200	Vertical	Pass
1**	1592.600	44.62	-16.58	54.0	9.38	AV	43.00	200	Vertical	Pass
2	3635.750	47.50	-7.01	74.0	26.50	Peak	37.00	300	Vertical	Pass
2**	3635.750	41.46	-7.01	54.0	12.54	AV	37.00	300	Vertical	Pass
3	5831.000	100.78	-2.53	--	--	Peak	322.00	100	Vertical	N/A
3**	5831.000	92.74	-2.53	--	--	AV	322.00	100	Vertical	N/A
4	7688.250	53.88	1.05	74.0	20.12	Peak	281.00	400	Vertical	Pass
4**	7688.250	45.39	1.05	54.0	8.61	AV	281.00	400	Vertical	Pass
5	11654.651	56.33	-1.27	74.0	17.67	Peak	7.00	150	Vertical	Pass
5**	11654.651	47.19	-1.27	54.0	6.81	AV	7.00	150	Vertical	Pass
6	15876.638	54.54	1.85	74.0	19.46	Peak	360.00	200	Vertical	Pass
6**	15876.638	44.55	1.85	54.0	9.45	AV	360.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1558.400	49.61	-17.35	74.0	24.39	Peak	52.00	300	Horizontal	Pass
1**	1558.400	44.28	-17.35	54.0	9.72	AV	52.00	300	Horizontal	Pass
2	3636.000	49.07	-7.03	74.0	24.93	Peak	91.00	400	Horizontal	Pass
2**	3636.000	44.51	-7.03	54.0	9.49	AV	91.00	400	Horizontal	Pass
3	5738.000	101.65	-2.01	--	--	Peak	11.00	200	Horizontal	N/A
3**	5738.000	93.84	-2.01	--	--	AV	11.00	200	Horizontal	N/A
4	7689.250	54.81	1.23	74.0	19.19	Peak	203.00	300	Horizontal	Pass
4**	7689.250	44.06	1.23	54.0	9.94	AV	203.00	300	Horizontal	Pass
5	11751.075	53.47	-0.19	74.0	20.53	Peak	82.00	200	Horizontal	Pass
5**	11751.075	43.25	-0.19	54.0	10.75	AV	82.00	200	Horizontal	Pass
6	15915.487	55.14	1.76	74.0	18.86	Peak	176.00	100	Horizontal	Pass
6**	15915.487	46.74	1.76	54.0	7.26	AV	176.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	48.61	-16.59	74.0	25.39	Peak	71.00	400	Vertical	Pass
1**	1592.800	45.18	-16.59	54.0	8.82	AV	71.00	400	Vertical	Pass
2	4351.500	47.18	-4.51	74.0	26.82	Peak	0.00	200	Vertical	Pass
2**	4351.500	37.71	-4.51	54.0	16.29	AV	0.00	200	Vertical	Pass
3	5750.250	99.77	-2.07	--	--	Peak	317.00	200	Vertical	N/A
3**	5750.250	92.08	-2.07	--	--	AV	317.00	200	Vertical	N/A
4	7317.000	53.18	0.60	74.0	20.82	Peak	56.00	400	Vertical	Pass
4**	7317.000	43.28	0.60	54.0	10.72	AV	56.00	400	Vertical	Pass
5	12495.400	53.89	1.40	74.0	20.11	Peak	9.00	150	Vertical	Pass
5**	12495.400	43.40	1.40	54.0	10.60	AV	9.00	150	Vertical	Pass
6	15893.175	54.65	1.97	74.0	19.35	Peak	261.00	200	Vertical	Pass
6**	15893.175	45.54	1.97	54.0	8.46	AV	261.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.600	50.88	-16.58	74.0	23.12	Peak	49.00	100	Horizontal	Pass
1**	1592.600	45.39	-16.58	54.0	8.61	AV	49.00	100	Horizontal	Pass
2	3635.500	50.34	-7.04	74.0	23.66	Peak	0.00	300	Horizontal	Pass
2**	3635.500	44.87	-7.04	54.0	9.13	AV	0.00	300	Horizontal	Pass
3	5778.250	103.69	-2.54	--	--	Peak	5.00	200	Horizontal	N/A
3**	5778.250	96.44	-2.54	--	--	AV	5.00	200	Horizontal	N/A
4	7707.000	54.18	1.71	74.0	19.82	Peak	338.00	100	Horizontal	Pass
4**	7707.000	44.93	1.71	54.0	9.07	AV	338.00	100	Horizontal	Pass
5	12460.724	54.04	1.12	74.0	19.96	Peak	53.00	200	Horizontal	Pass
5**	12460.724	44.70	1.12	54.0	9.30	AV	53.00	200	Horizontal	Pass
6	16105.538	55.34	1.80	74.0	18.66	Peak	122.00	300	Horizontal	Pass
6**	16105.538	45.95	1.80	54.0	8.05	AV	122.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.300	49.08	-17.01	74.0	24.92	Peak	62.00	300	Vertical	Pass
1**	1593.300	42.95	-17.01	54.0	11.05	AV	62.00	300	Vertical	Pass
2	3636.000	47.92	-7.03	74.0	26.08	Peak	38.00	100	Vertical	Pass
2**	3636.000	41.99	-7.03	54.0	12.01	AV	38.00	100	Vertical	Pass
3	5790.500	100.67	-2.42	--	--	Peak	295.00	100	Vertical	N/A
3**	5790.500	93.76	-2.42	--	--	AV	295.00	100	Vertical	N/A
4	7707.250	54.04	1.56	74.0	19.96	Peak	295.00	100	Vertical	Pass
4**	7707.250	44.99	1.56	54.0	9.01	AV	295.00	100	Vertical	Pass
5	11573.188	53.74	-0.95	74.0	20.26	Peak	11.00	150	Vertical	Pass
5**	11573.188	45.10	-0.95	54.0	8.90	AV	11.00	150	Vertical	Pass
6	15892.125	54.29	1.97	74.0	19.71	Peak	180.00	200	Vertical	Pass
6**	15892.125	45.72	1.97	54.0	8.28	AV	180.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	49.44	-16.59	74.0	24.56	Peak	50.00	100	Horizontal	Pass
1**	1592.800	45.00	-16.59	54.0	9.00	AV	50.00	100	Horizontal	Pass
2	3635.250	49.89	-7.13	74.0	24.11	Peak	0.00	200	Horizontal	Pass
2**	3635.250	44.09	-7.13	54.0	9.91	AV	0.00	200	Horizontal	Pass
3	5830.500	103.85	-2.59	--	--	Peak	19.00	100	Horizontal	N/A
3**	5830.500	97.35	-2.59	--	--	AV	19.00	100	Horizontal	N/A
4	7680.750	53.56	0.90	74.0	20.44	Peak	254.00	200	Horizontal	Pass
4**	7680.750	43.66	0.90	54.0	10.34	AV	254.00	200	Horizontal	Pass
5	11643.725	53.31	-1.26	74.0	20.69	Peak	310.00	200	Horizontal	Pass
5**	11643.725	49.25	-1.26	54.0	4.75	AV	310.00	200	Horizontal	Pass
6	11648.950	55.49	-1.33	74.0	18.51	Peak	310.00	150	Horizontal	Pass
6**	11648.950	46.76	-1.33	54.0	7.24	AV	310.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.400	49.81	-16.74	74.0	24.19	Peak	35.00	400	Vertical	Pass
1**	1592.400	42.26	-16.74	54.0	11.74	AV	35.00	400	Vertical	Pass
2	4399.750	47.58	-4.73	74.0	26.42	Peak	198.00	400	Vertical	Pass
2**	4399.750	38.06	-4.73	54.0	15.94	AV	198.00	400	Vertical	Pass
3	5832.000	100.53	-2.12	--	--	Peak	322.00	100	Vertical	N/A
3**	5832.000	92.62	-2.12	--	--	AV	322.00	100	Vertical	N/A
4	7696.250	53.52	1.22	74.0	20.48	Peak	137.00	100	Vertical	Pass
4**	7696.250	45.00	1.22	54.0	9.00	AV	137.00	100	Vertical	Pass
5	11641.825	53.82	-1.23	74.0	20.18	Peak	8.00	100	Vertical	Pass
5**	11641.825	43.86	-1.23	54.0	10.14	AV	8.00	100	Vertical	Pass
6	16029.412	54.63	1.16	74.0	19.37	Peak	237.00	100	Vertical	Pass
6**	16029.412	46.12	1.16	54.0	7.88	AV	237.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.100	49.80	-16.97	74.0	24.20	Peak	84.00	300	Horizontal	Pass
1**	1593.100	45.61	-16.97	54.0	8.39	AV	84.00	300	Horizontal	Pass
2	3635.500	49.90	-7.04	74.0	24.10	Peak	344.00	300	Horizontal	Pass
2**	3635.500	44.32	-7.04	54.0	9.68	AV	344.00	300	Horizontal	Pass
3	5768.500	100.53	-2.26	--	--	Peak	26.00	200	Horizontal	N/A
3**	5768.500	92.56	-2.26	--	--	AV	26.00	200	Horizontal	N/A
4	7704.500	54.01	1.93	74.0	19.99	Peak	76.00	200	Horizontal	Pass
4**	7704.500	45.13	1.93	54.0	8.87	AV	76.00	200	Horizontal	Pass
5	11799.763	53.44	-0.15	74.0	20.56	Peak	225.00	100	Horizontal	Pass
5**	11799.763	44.55	-0.15	54.0	9.45	AV	225.00	100	Horizontal	Pass
6	15916.013	55.20	1.75	74.0	18.80	Peak	215.00	300	Horizontal	Pass
6**	15916.013	45.54	1.75	54.0	8.46	AV	215.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.700	49.03	-16.50	74.0	24.97	Peak	57.00	400	Vertical	Pass
1**	1592.700	45.65	-16.50	54.0	8.35	AV	57.00	400	Vertical	Pass
2	3635.000	47.80	-7.18	74.0	26.20	Peak	50.00	200	Vertical	Pass
2**	3635.000	40.40	-7.18	54.0	13.60	AV	50.00	200	Vertical	Pass
3	5768.500	98.50	-2.26	--	--	Peak	325.00	100	Vertical	N/A
3**	5768.500	90.56	-2.26	--	--	AV	325.00	100	Vertical	N/A
4	7711.000	53.65	1.81	74.0	20.35	Peak	360.00	300	Vertical	Pass
4**	7711.000	45.81	1.81	54.0	8.19	AV	360.00	300	Vertical	Pass
5	12536.013	53.37	1.23	74.0	20.63	Peak	107.00	100	Vertical	Pass
5**	12536.013	43.28	1.23	54.0	10.72	AV	107.00	100	Vertical	Pass
6	15897.638	54.89	2.01	74.0	19.11	Peak	360.00	400	Vertical	Pass
6**	15897.638	45.65	2.01	54.0	8.35	AV	360.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.600	49.95	-16.58	74.0	24.05	Peak	50.00	300	Horizontal	Pass
1**	1592.600	44.06	-16.58	54.0	9.94	AV	50.00	300	Horizontal	Pass
2	3635.250	51.57	-7.13	74.0	22.43	Peak	16.00	300	Horizontal	Pass
2**	3635.250	43.89	-7.13	54.0	10.11	AV	16.00	300	Horizontal	Pass
3	5796.500	103.27	-2.26	--	--	Peak	16.00	100	Horizontal	N/A
3**	5796.500	94.74	-2.26	--	--	AV	16.00	100	Horizontal	N/A
4	7420.250	53.61	1.47	74.0	20.39	Peak	224.00	400	Horizontal	Pass
4**	7420.250	45.05	1.47	54.0	8.95	AV	224.00	400	Horizontal	Pass
5	11594.800	54.59	-0.67	74.0	19.41	Peak	314.00	100	Horizontal	Pass
5**	11594.800	45.24	-0.67	54.0	8.76	AV	314.00	100	Horizontal	Pass
6	16091.362	54.91	1.64	74.0	19.09	Peak	177.00	100	Horizontal	Pass
6**	16091.362	45.33	1.64	54.0	8.67	AV	177.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.900	49.36	-16.72	74.0	24.64	Peak	50.00	200	Vertical	Pass
1**	1592.900	45.31	-16.72	54.0	8.69	AV	50.00	200	Vertical	Pass
2	4367.250	47.74	-4.78	74.0	26.26	Peak	334.00	300	Vertical	Pass
2**	4367.250	37.82	-4.78	54.0	16.18	AV	334.00	300	Vertical	Pass
3	5792.750	100.06	-2.18	--	--	Peak	334.00	100	Vertical	N/A
3**	5792.750	92.28	-2.18	--	--	AV	334.00	100	Vertical	N/A
4	7345.000	53.27	-0.18	74.0	20.73	Peak	16.00	400	Vertical	Pass
4**	7345.000	43.73	-0.18	54.0	10.27	AV	16.00	400	Vertical	Pass
5	11589.576	54.12	-0.74	74.0	19.88	Peak	8.00	150	Vertical	Pass
5**	11589.576	44.65	-0.74	54.0	9.35	AV	8.00	150	Vertical	Pass
6	11600.026	50.83	-0.61	74.0	23.17	Peak	89.00	150	Vertical	Pass
6**	11600.026	47.15	-0.61	54.0	6.85	AV	89.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	49.46	-16.59	74.0	24.54	Peak	93.00	200	Horizontal	Pass
1**	1592.800	44.04	-16.59	54.0	9.96	AV	93.00	200	Horizontal	Pass
2	3634.250	49.86	-7.31	74.0	24.14	Peak	79.00	400	Horizontal	Pass
2**	3634.250	38.98	-7.31	54.0	15.02	AV	79.00	400	Horizontal	Pass
3	5738.750	101.21	-1.99	--	--	Peak	10.00	150	Horizontal	N/A
3**	5738.750	94.68	-1.99	--	--	AV	10.00	150	Horizontal	N/A
4	7702.250	53.96	1.52	74.0	20.04	Peak	0.00	400	Horizontal	Pass
4**	7702.250	45.59	1.52	54.0	8.41	AV	0.00	400	Horizontal	Pass
5	12450.513	53.02	1.04	74.0	20.98	Peak	0.00	100	Horizontal	Pass
5**	12450.513	43.33	1.04	54.0	10.67	AV	0.00	100	Horizontal	Pass
6	15903.150	54.53	1.97	74.0	19.47	Peak	241.00	200	Horizontal	Pass
6**	15903.150	45.49	1.97	54.0	8.51	AV	241.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.600	49.08	-16.58	74.0	24.92	Peak	71.00	200	Vertical	Pass
1**	1592.600	45.70	-16.58	54.0	8.30	AV	71.00	200	Vertical	Pass
2	3635.500	48.52	-7.04	74.0	25.48	Peak	30.00	100	Vertical	Pass
2**	3635.500	41.54	-7.04	54.0	12.46	AV	30.00	100	Vertical	Pass
3	5752.000	99.92	-1.84	--	--	Peak	317.00	100	Vertical	N/A
3**	5752.000	92.57	-1.84	--	--	AV	317.00	100	Vertical	N/A
4	7426.000	53.49	1.40	74.0	20.51	Peak	222.00	100	Vertical	Pass
4**	7426.000	44.89	1.40	54.0	9.11	AV	222.00	100	Vertical	Pass
5	11779.812	53.45	-0.17	74.0	20.55	Peak	47.00	150	Vertical	Pass
5**	11779.812	44.44	-0.17	54.0	9.56	AV	47.00	150	Vertical	Pass
6	16115.512	54.42	1.88	74.0	19.58	Peak	278.00	100	Vertical	Pass
6**	16115.512	45.75	1.88	54.0	8.25	AV	278.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1558.200	49.87	-17.41	74.0	24.13	Peak	55.00	400	Horizontal	Pass
1**	1558.200	46.04	-17.41	54.0	7.96	AV	55.00	400	Horizontal	Pass
2	3635.500	50.00	-7.04	74.0	24.00	Peak	0.00	100	Horizontal	Pass
2**	3635.500	44.70	-7.04	54.0	9.30	AV	0.00	100	Horizontal	Pass
3	5789.750	103.77	-2.58	--	--	Peak	0.00	150	Horizontal	N/A
3**	5789.750	96.07	-2.58	--	--	AV	0.00	150	Horizontal	N/A
4	7409.750	53.48	0.63	74.0	20.52	Peak	334.00	100	Horizontal	Pass
4**	7409.750	44.31	0.63	54.0	9.69	AV	334.00	100	Horizontal	Pass
5	12504.188	52.97	1.41	74.0	21.03	Peak	360.00	150	Horizontal	Pass
5**	12504.188	43.65	1.41	54.0	10.35	AV	360.00	150	Horizontal	Pass
6	16137.825	54.97	2.05	74.0	19.03	Peak	276.00	100	Horizontal	Pass
6**	16137.825	45.08	2.05	54.0	8.92	AV	276.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.400	48.67	-16.74	74.0	25.33	Peak	69.00	200	Vertical	Pass
1**	1592.400	43.43	-16.74	54.0	10.57	AV	69.00	200	Vertical	Pass
2	3635.250	48.23	-7.13	74.0	25.77	Peak	40.00	100	Vertical	Pass
2**	3635.250	41.98	-7.13	54.0	12.02	AV	40.00	100	Vertical	Pass
3	5790.250	100.97	-2.31	--	--	Peak	305.00	150	Vertical	N/A
3**	5790.250	94.53	-2.31	--	--	AV	305.00	150	Vertical	N/A
4	7675.750	53.80	0.76	74.0	20.20	Peak	20.00	200	Vertical	Pass
4**	7675.750	44.08	0.76	54.0	9.92	AV	20.00	200	Vertical	Pass
5	12250.063	53.00	1.10	74.0	21.00	Peak	87.00	200	Vertical	Pass
5**	12250.063	43.40	1.10	54.0	10.60	AV	87.00	200	Vertical	Pass
6	15893.963	54.60	1.98	74.0	19.40	Peak	276.00	300	Vertical	Pass
6**	15893.963	45.08	1.98	54.0	8.92	AV	276.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	50.29	-16.59	74.0	23.71	Peak	49.00	400	Horizontal	Pass
1**	1592.800	44.63	-16.59	54.0	9.37	AV	49.00	400	Horizontal	Pass
2	3635.750	50.33	-7.01	74.0	23.67	Peak	23.00	300	Horizontal	Pass
2**	3635.750	44.56	-7.01	54.0	9.44	AV	23.00	300	Horizontal	Pass
3	5818.750	103.74	-2.42	--	--	Peak	23.00	150	Horizontal	N/A
3**	5818.750	97.21	-2.42	--	--	AV	23.00	150	Horizontal	N/A
4	7705.000	53.96	2.03	74.0	20.04	Peak	196.00	400	Horizontal	Pass
4**	7705.000	45.07	2.03	54.0	8.93	AV	196.00	400	Horizontal	Pass
5	11649.188	52.72	-1.34	74.0	21.28	Peak	308.00	300	Horizontal	Pass
5**	11649.188	49.32	-1.34	54.0	4.68	AV	308.00	300	Horizontal	Pass
6	11649.662	55.89	-1.34	74.0	18.11	Peak	346.00	150	Horizontal	Pass
6**	11649.662	46.49	-1.34	54.0	7.51	AV	346.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.700	49.44	-16.50	74.0	24.56	Peak	71.00	200	Vertical	Pass
1**	1592.700	44.60	-16.50	54.0	9.40	AV	71.00	200	Vertical	Pass
2	4348.000	47.34	-4.72	74.0	26.66	Peak	275.00	200	Vertical	Pass
2**	4348.000	37.82	-4.72	54.0	16.18	AV	275.00	200	Vertical	Pass
3	5831.500	100.43	-2.53	--	--	Peak	319.00	150	Vertical	N/A
3**	5831.500	92.98	-2.53	--	--	AV	319.00	150	Vertical	N/A
4	7722.250	54.06	1.31	74.0	19.94	Peak	342.00	300	Vertical	Pass
4**	7722.250	45.24	1.31	54.0	8.76	AV	342.00	300	Vertical	Pass
5	11650.375	53.59	-1.34	74.0	20.41	Peak	9.00	300	Vertical	Pass
5**	11650.375	49.35	-1.34	54.0	4.65	AV	9.00	300	Vertical	Pass
6	11660.826	57.88	-1.17	74.0	16.12	Peak	9.00	100	Vertical	Pass
6**	11660.826	48.24	-1.17	54.0	5.76	AV	9.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1558.700	48.77	-17.07	74.0	25.23	Peak	51.00	400	Horizontal	Pass
1**	1558.700	41.93	-17.07	54.0	12.07	AV	51.00	400	Horizontal	Pass
2	3635.250	50.51	-7.13	74.0	23.49	Peak	360.00	400	Horizontal	Pass
2**	3635.250	43.34	-7.13	54.0	10.66	AV	360.00	400	Horizontal	Pass
3	5752.750	100.64	-2.16	--	--	Peak	16.00	100	Horizontal	N/A
3**	5752.750	92.92	-2.16	--	--	AV	16.00	100	Horizontal	N/A
4	7710.000	53.40	1.69	74.0	20.60	Peak	167.00	100	Horizontal	Pass
4**	7710.000	44.39	1.69	54.0	9.61	AV	167.00	100	Horizontal	Pass
5	11768.175	53.29	-0.18	74.0	20.71	Peak	161.00	200	Horizontal	Pass
5**	11768.175	43.60	-0.18	54.0	10.40	AV	161.00	200	Horizontal	Pass
6	16123.650	55.20	1.94	74.0	18.80	Peak	266.00	400	Horizontal	Pass
6**	16123.650	46.24	1.94	54.0	7.76	AV	266.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.500	48.04	-16.66	74.0	25.96	Peak	58.00	200	Vertical	Pass
1**	1592.500	42.39	-16.66	54.0	11.61	AV	58.00	200	Vertical	Pass
2	4319.000	47.79	-4.99	74.0	26.21	Peak	360.00	300	Vertical	Pass
2**	4319.000	38.68	-4.99	54.0	15.32	AV	360.00	300	Vertical	Pass
3	5769.750	99.00	-2.33	--	--	Peak	337.00	200	Vertical	N/A
3**	5769.750	91.34	-2.33	--	--	AV	337.00	200	Vertical	N/A
4	7423.000	53.78	1.54	74.0	20.22	Peak	337.00	400	Vertical	Pass
4**	7423.000	44.52	1.54	54.0	9.48	AV	337.00	400	Vertical	Pass
5	11800.237	53.25	-0.15	74.0	20.75	Peak	224.00	100	Vertical	Pass
5**	11800.237	44.03	-0.15	54.0	9.97	AV	224.00	100	Vertical	Pass
6	16130.475	55.36	2.00	74.0	18.64	Peak	59.00	400	Vertical	Pass
6**	16130.475	45.63	2.00	54.0	8.37	AV	59.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	50.60	-16.59	74.0	23.40	Peak	48.00	300	Horizontal	Pass
1**	1592.800	45.63	-16.59	54.0	8.37	AV	48.00	300	Horizontal	Pass
2	3635.750	49.99	-7.01	74.0	24.01	Peak	343.00	300	Horizontal	Pass
2**	3635.750	44.39	-7.01	54.0	9.61	AV	343.00	300	Horizontal	Pass
3	5809.500	102.17	-2.41	--	--	Peak	18.00	100	Horizontal	N/A
3**	5809.500	94.10	-2.41	--	--	AV	18.00	100	Horizontal	N/A
4	7709.250	54.05	1.90	74.0	19.95	Peak	343.00	400	Horizontal	Pass
4**	7709.250	45.51	1.90	54.0	8.49	AV	343.00	400	Horizontal	Pass
5	11591.238	51.94	-0.72	74.0	22.06	Peak	314.00	400	Horizontal	Pass
5**	11591.238	48.15	-0.72	54.0	5.85	AV	314.00	400	Horizontal	Pass
6	11592.662	54.31	-0.70	74.0	19.69	Peak	321.00	100	Horizontal	Pass
6**	11592.662	44.49	-0.70	54.0	9.51	AV	321.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.700	51.29	-16.50	74.0	22.71	Peak	60.00	400	Vertical	Pass
1**	1592.700	46.14	-16.50	54.0	7.86	AV	60.00	400	Vertical	Pass
2	3635.750	47.87	-7.01	74.0	26.13	Peak	55.00	200	Vertical	Pass
2**	3635.750	42.13	-7.01	54.0	11.87	AV	55.00	200	Vertical	Pass
3	5800.000	98.78	-2.32	--	--	Peak	321.00	150	Vertical	N/A
3**	5800.000	91.87	-2.32	--	--	AV	321.00	150	Vertical	N/A
4	7352.250	54.57	0.44	74.0	19.43	Peak	360.00	400	Vertical	Pass
4**	7352.250	44.58	0.44	54.0	9.42	AV	360.00	400	Vertical	Pass
5	11604.300	51.64	-0.67	74.0	22.36	Peak	7.00	400	Vertical	Pass
5**	11604.300	47.85	-0.67	54.0	6.15	AV	7.00	400	Vertical	Pass
6	11606.674	54.79	-0.71	74.0	19.21	Peak	7.00	100	Vertical	Pass
6**	11606.674	44.15	-0.71	54.0	9.85	AV	7.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.700	51.10	-16.50	74.0	22.90	Peak	43.00	200	Horizontal	Pass
1**	1592.700	44.54	-16.50	54.0	9.46	AV	43.00	200	Horizontal	Pass
2	3637.000	49.56	-7.04	74.0	24.44	Peak	0.00	300	Horizontal	Pass
2**	3637.000	40.40	-7.04	54.0	13.60	AV	0.00	300	Horizontal	Pass
3	5784.500	98.98	-2.74	--	--	Peak	17.00	150	Horizontal	N/A
3**	5784.500	90.83	-2.74	--	--	AV	17.00	150	Horizontal	N/A
4	7706.250	54.13	1.54	74.0	19.87	Peak	349.00	300	Horizontal	Pass
4**	7706.250	45.17	1.54	54.0	8.83	AV	349.00	300	Horizontal	Pass
5	12496.825	53.23	1.41	74.0	20.77	Peak	292.00	150	Horizontal	Pass
5**	12496.825	42.96	1.41	54.0	11.04	AV	292.00	150	Horizontal	Pass
6	15911.550	54.25	1.83	74.0	19.75	Peak	4.00	100	Horizontal	Pass
6**	15911.550	44.82	1.83	54.0	9.18	AV	4.00	100	Horizontal	Pass

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

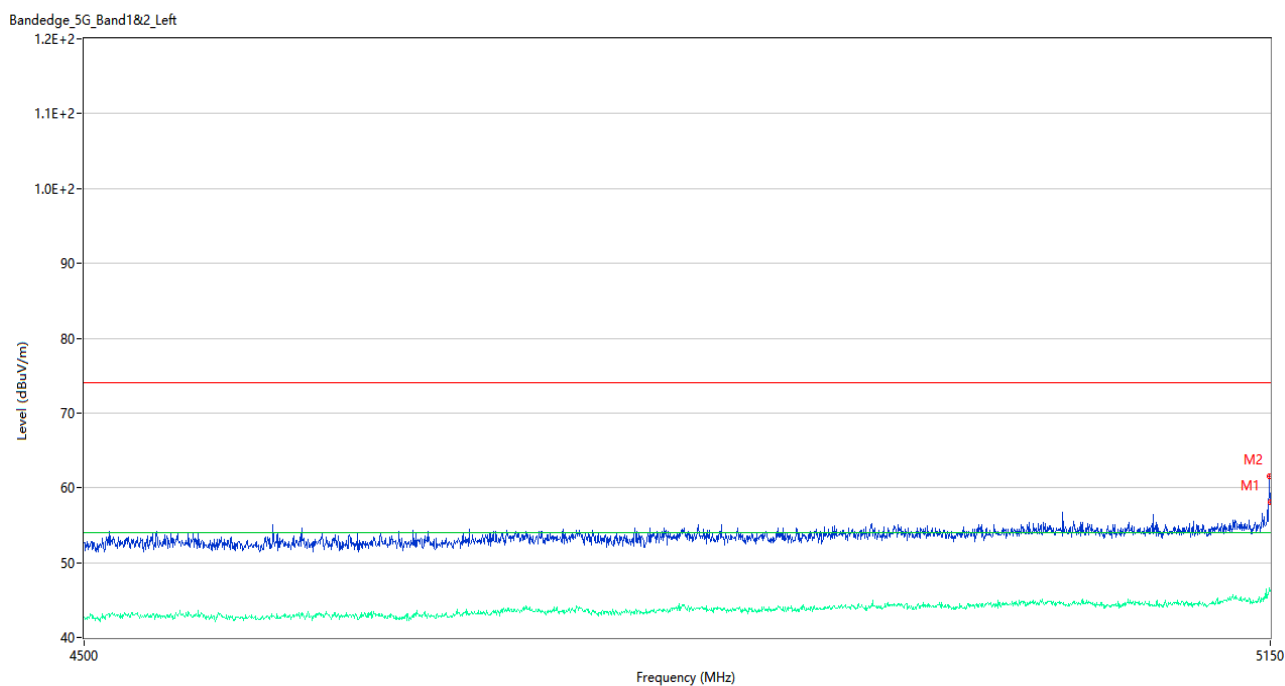
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.800	48.76	-16.59	74.0	25.24	Peak	63.00	400	Vertical	Pass
1**	1592.800	44.17	-16.59	54.0	9.83	AV	63.00	400	Vertical	Pass
2	4119.750	47.57	-5.66	74.0	26.43	Peak	314.00	100	Vertical	Pass
2**	4119.750	38.73	-5.66	54.0	15.27	AV	314.00	100	Vertical	Pass
3	5801.750	96.29	-2.01	--	--	Peak	360.00	100	Vertical	N/A
3**	5801.750	88.50	-2.01	--	--	AV	360.00	100	Vertical	N/A
4	7711.750	53.48	2.04	74.0	20.52	Peak	99.00	300	Vertical	Pass
4**	7711.750	45.16	2.04	54.0	8.84	AV	99.00	300	Vertical	Pass
5	12037.737	53.17	-0.04	74.0	20.83	Peak	360.00	100	Vertical	Pass
5**	12037.737	42.35	-0.04	54.0	11.65	AV	360.00	100	Vertical	Pass
6	16138.087	55.15	2.06	74.0	18.85	Peak	277.00	200	Vertical	Pass
6**	16138.087	45.00	2.06	54.0	9.00	AV	277.00	200	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

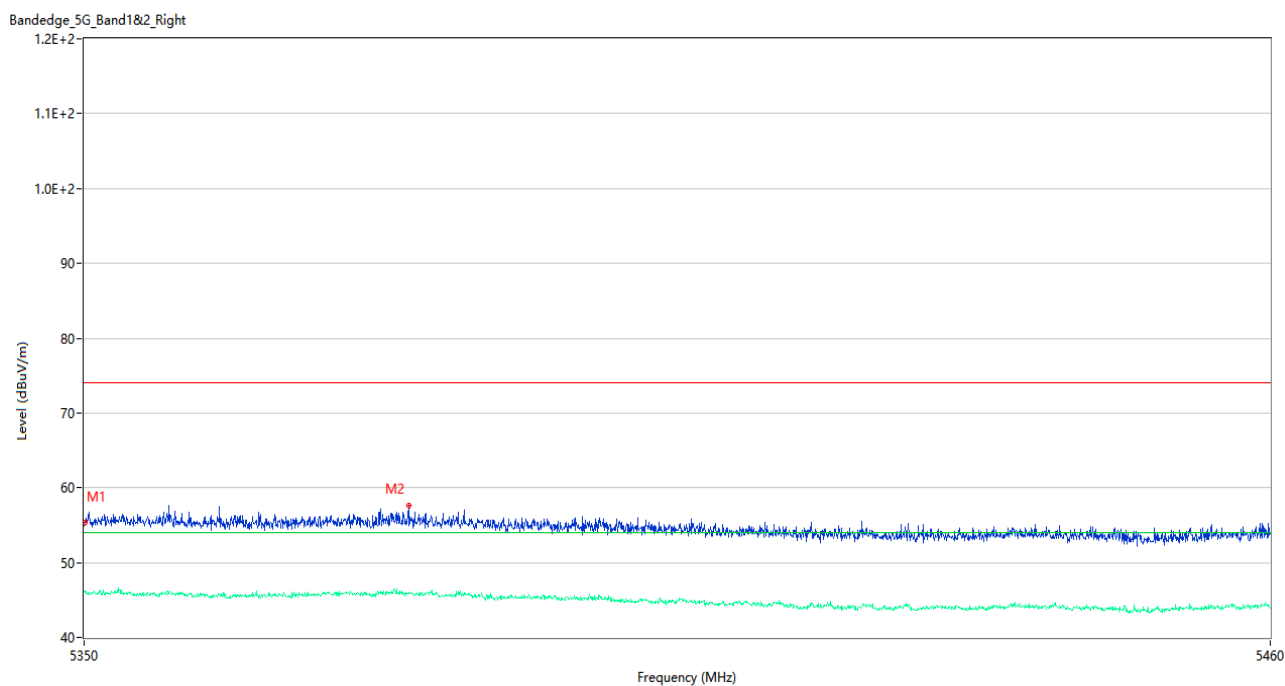
Test Data and Plots

U-NII-1 11a Low Channel



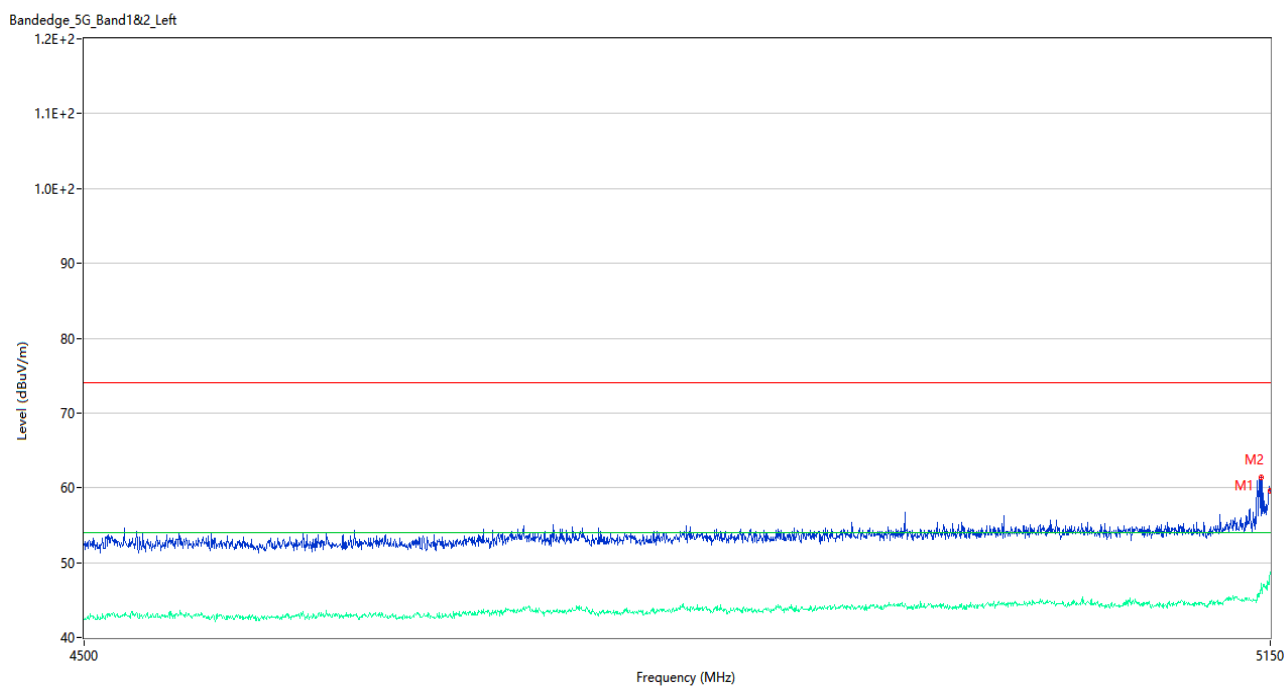
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.350	61.58	2.85	74.0	12.42	Peak	313.00	150	Horizontal	Pass
1**	5149.350	46.37	2.85	54.0	7.63	AV	313.00	150	Horizontal	Pass
2	5150.000	58.15	2.86	74.0	15.85	Peak	313.00	200	Horizontal	Pass
2**	5150.000	46.12	2.86	54.0	7.88	AV	313.00	200	Horizontal	Pass

U-NII-1 11a High Channel



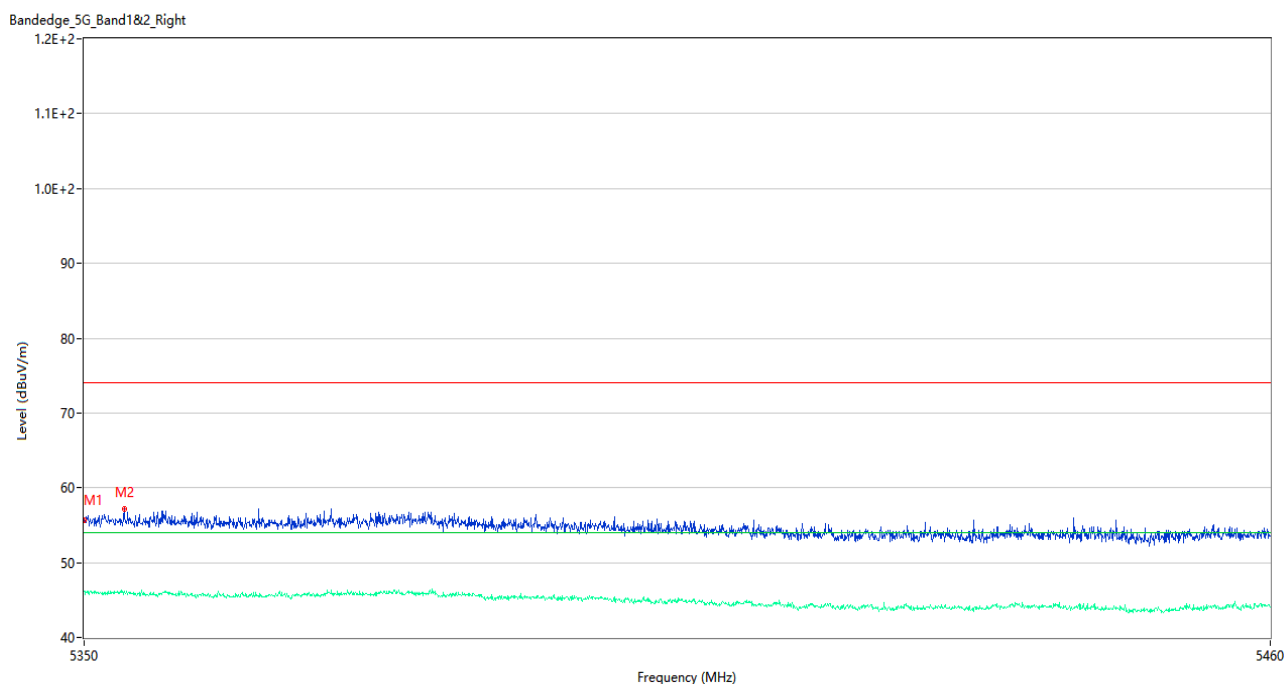
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.42	3.30	74.0	18.58	Peak	275.00	200	Horizontal	Pass
1**	5350.055	45.95	3.30	54.0	8.05	AV	275.00	200	Horizontal	Pass
2	5379.865	57.70	3.25	74.0	16.30	Peak	239.00	200	Horizontal	Pass
2**	5379.865	45.83	3.25	54.0	8.17	AV	239.00	200	Horizontal	Pass

U-NII-1 11n20 Low Channel



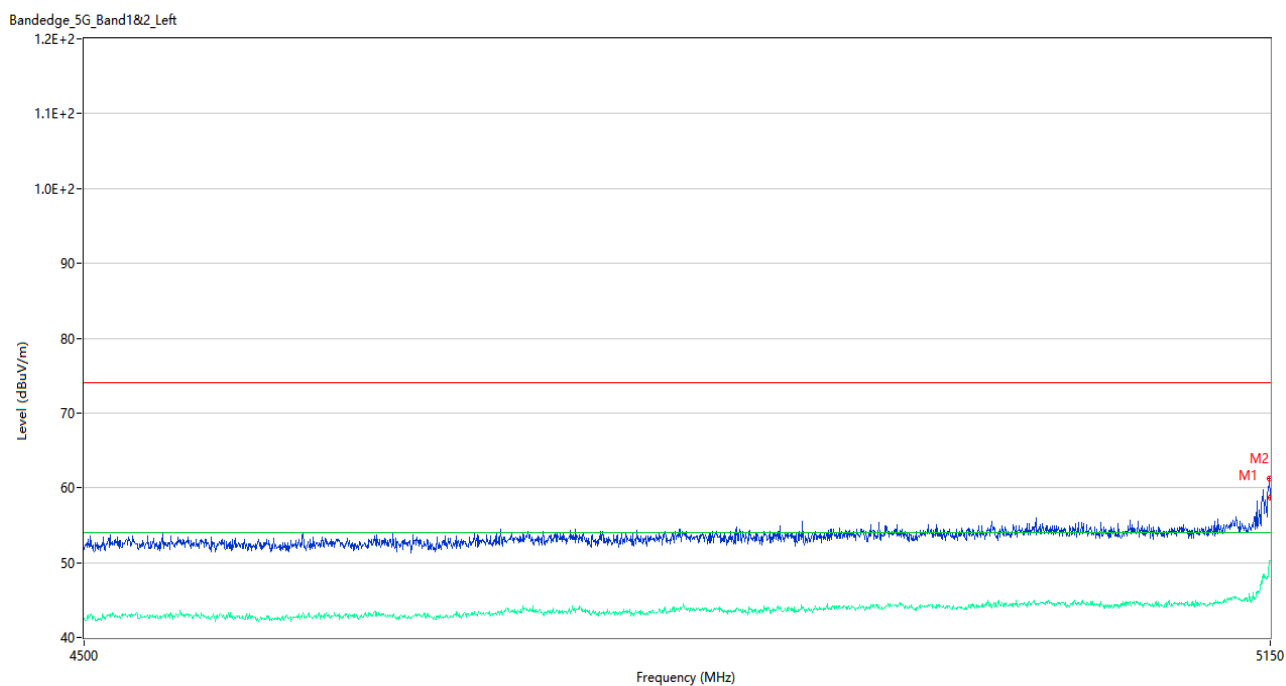
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5144.475	61.37	2.86	74.0	12.63	Peak	316.00	150	Horizontal	Pass
1**	5144.475	46.56	2.86	54.0	7.44	AV	316.00	150	Horizontal	Pass
2	5150.000	59.54	2.86	74.0	14.46	Peak	313.00	200	Horizontal	Pass
2**	5150.000	48.70	2.86	54.0	5.30	AV	313.00	200	Horizontal	Pass

U-NII-1 11n20 High Channel



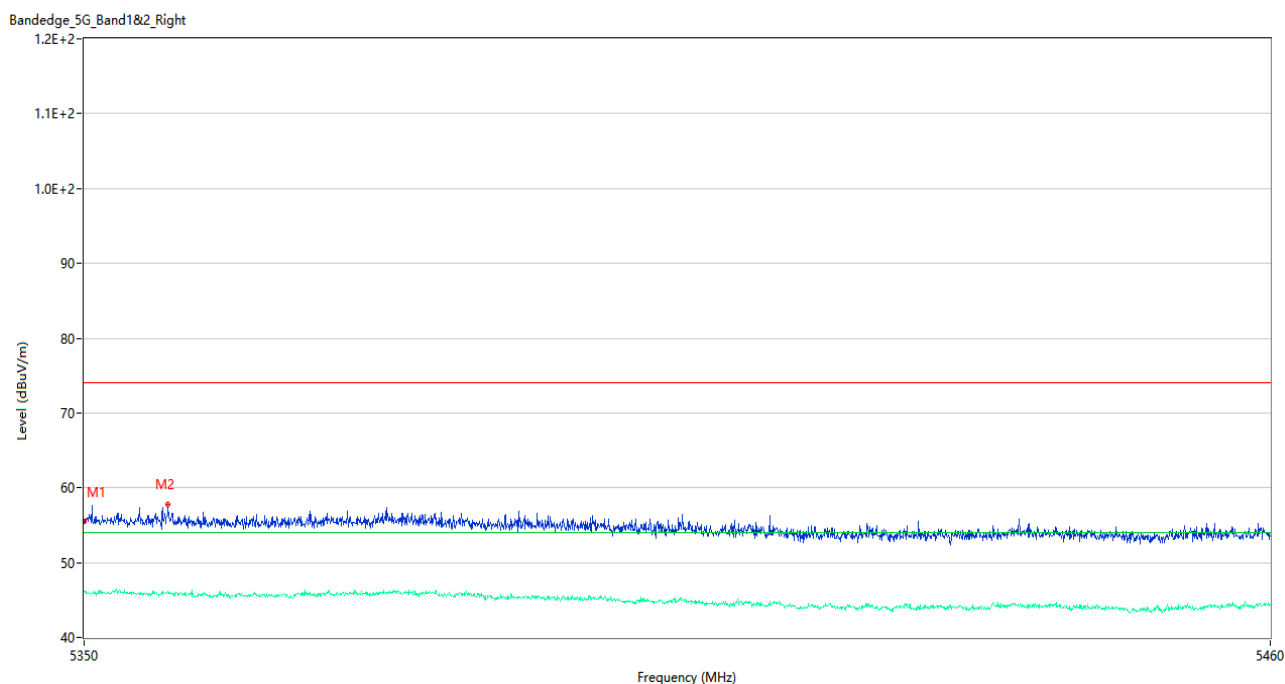
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.74	3.32	74.0	18.26	Peak	325.00	100	Horizontal	Pass
1**	5350.000	46.16	3.32	54.0	7.84	AV	325.00	100	Horizontal	Pass
2	5353.685	57.20	3.10	74.0	16.80	Peak	299.00	150	Horizontal	Pass
2**	5353.685	45.97	3.10	54.0	8.03	AV	299.00	150	Horizontal	Pass

U-NII-1 11n40 Low Channel



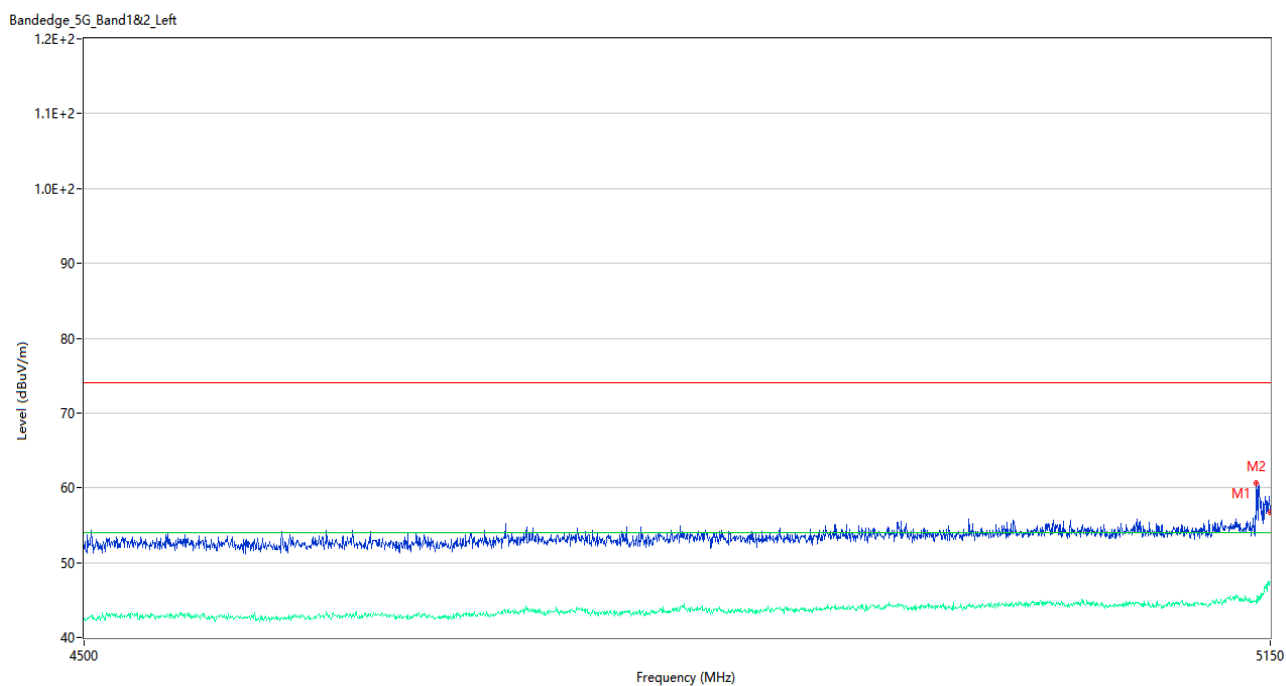
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.675	61.18	2.85	74.0	12.82	Peak	315.00	150	Horizontal	Pass
1**	5149.675	50.22	2.85	54.0	3.78	AV	315.00	150	Horizontal	Pass
2	5150.000	58.68	2.86	74.0	15.32	Peak	308.00	150	Horizontal	Pass
2**	5150.000	50.20	2.86	54.0	3.80	AV	308.00	150	Horizontal	Pass

U-NII-1 11n40 High Channel



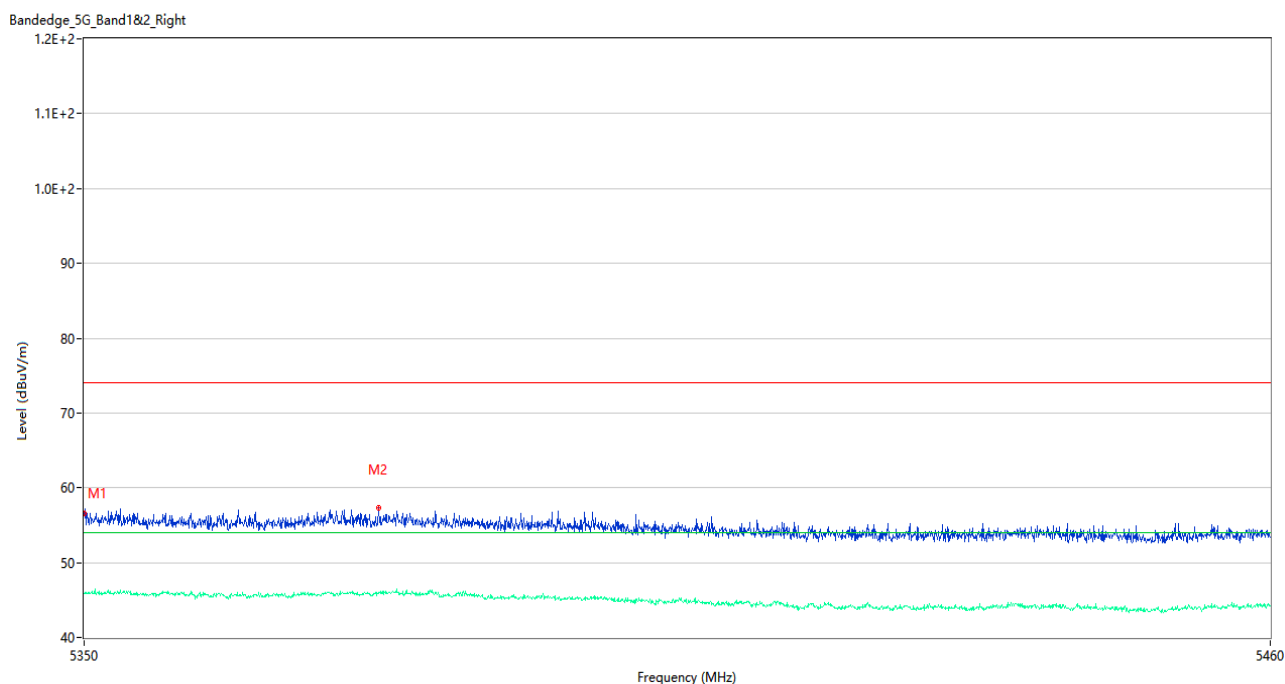
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.59	3.32	74.0	18.41	Peak	242.00	150	Horizontal	Pass
1**	5350.000	46.12	3.32	54.0	7.88	AV	242.00	150	Horizontal	Pass
2	5357.700	57.76	3.05	74.0	16.24	Peak	350.00	100	Horizontal	Pass
2**	5357.700	46.11	3.05	54.0	7.89	AV	350.00	100	Horizontal	Pass

U-NII-1 11ac20 Low Channel



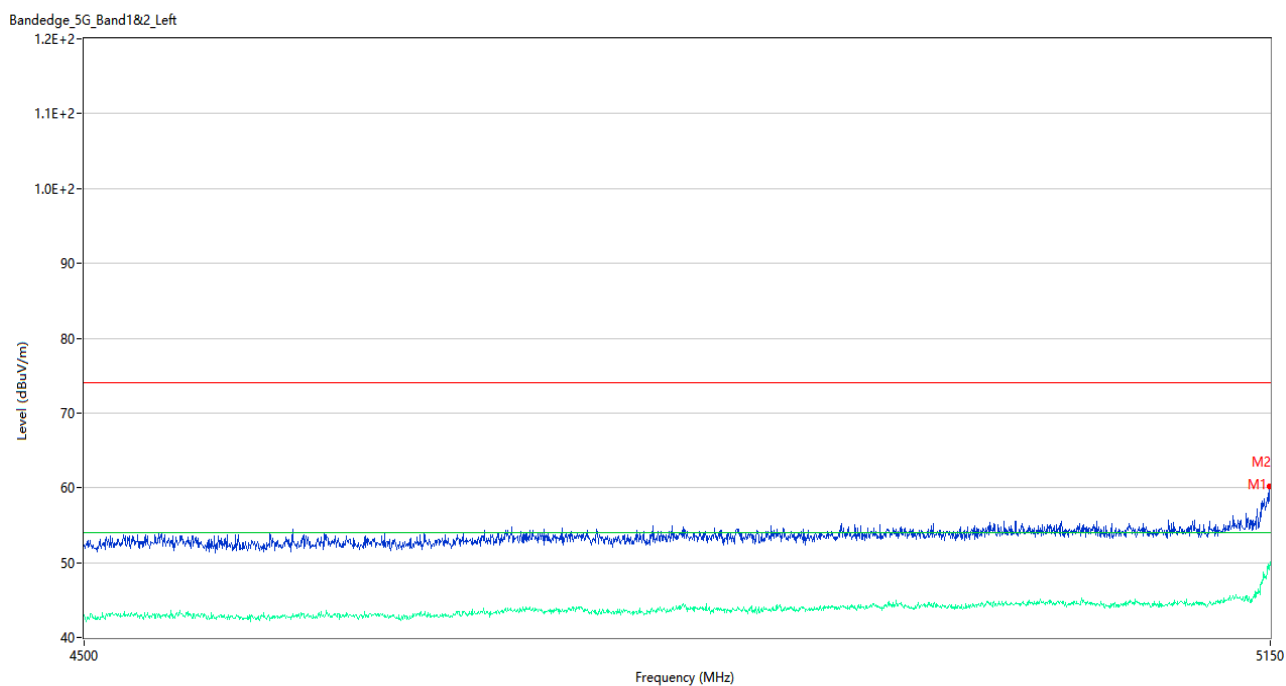
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5141.875	60.70	2.78	74.0	13.30	Peak	311.00	100	Horizontal	Pass
1**	5141.875	44.59	2.78	54.0	9.41	AV	311.00	100	Horizontal	Pass
2	5150.000	56.66	2.86	74.0	17.34	Peak	311.00	150	Horizontal	Pass
2**	5150.000	47.39	2.86	54.0	6.61	AV	311.00	150	Horizontal	Pass

U-NII-1 11ac20 High Channel



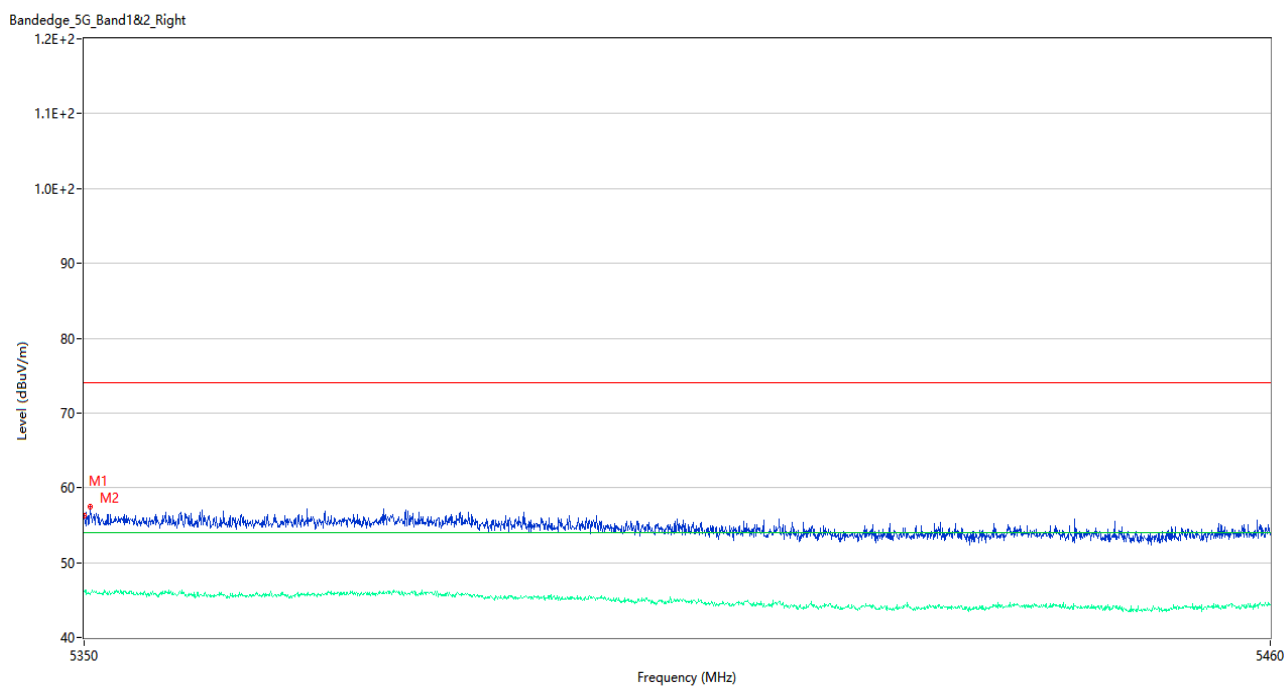
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.64	3.32	74.0	17.36	Peak	317.00	200	Horizontal	Pass
1**	5350.000	45.89	3.32	54.0	8.11	AV	317.00	200	Horizontal	Pass
2	5377.060	57.40	3.03	74.0	16.60	Peak	222.00	100	Horizontal	Pass
2**	5377.060	45.84	3.03	54.0	8.16	AV	222.00	100	Horizontal	Pass

U-NII-1 11ac40 Low Channel



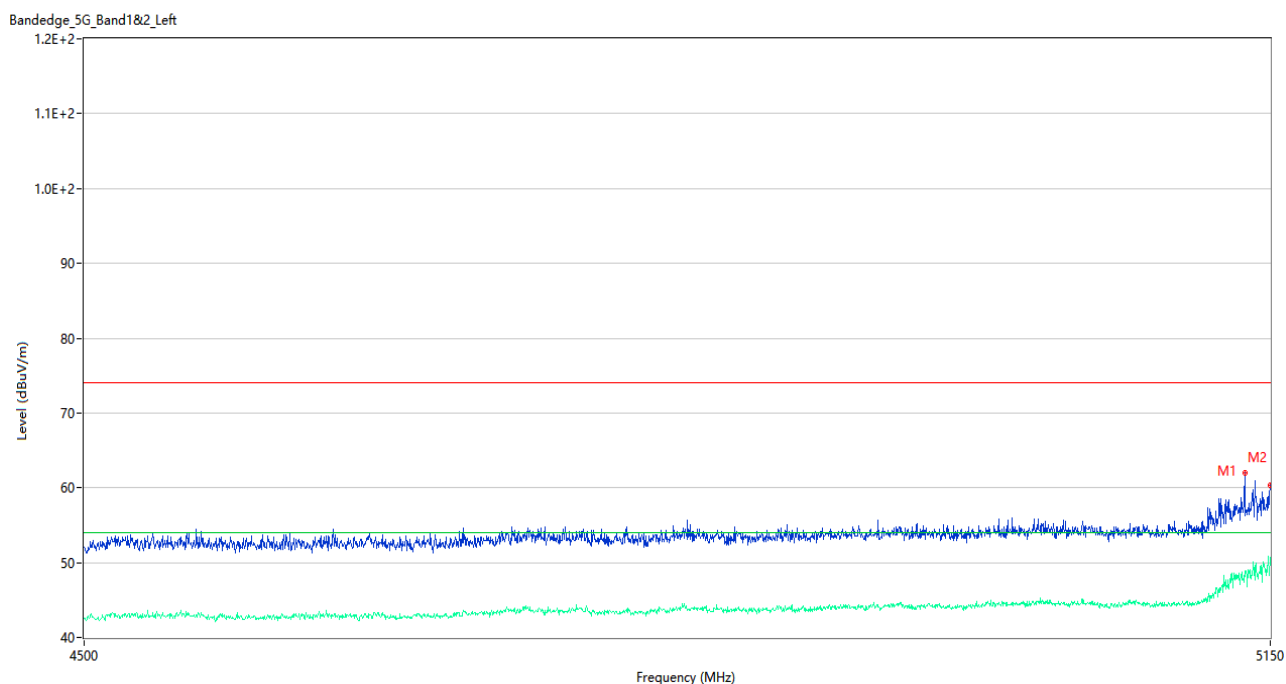
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.675	60.22	2.85	74.0	13.78	Peak	313.00	150	Horizontal	Pass
1**	5149.675	49.09	2.85	54.0	4.91	AV	313.00	150	Horizontal	Pass
2	5150.000	60.16	2.86	74.0	13.84	Peak	310.00	150	Horizontal	Pass
2**	5150.000	50.16	2.86	54.0	3.84	AV	310.00	150	Horizontal	Pass

U-NII-1 11ac40 High Channel



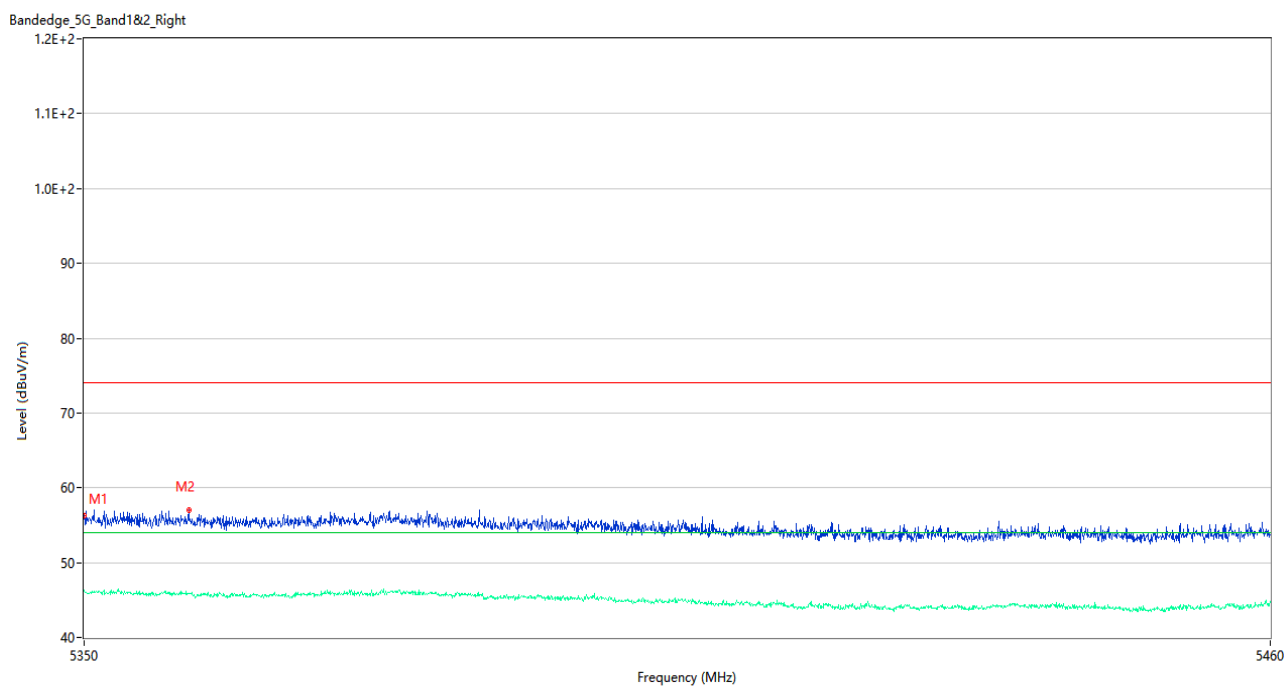
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.25	3.32	74.0	17.75	Peak	175.00	200	Horizontal	Pass
1**	5350.000	46.11	3.32	54.0	7.89	AV	175.00	200	Horizontal	Pass
2	5350.550	57.52	3.16	74.0	16.48	Peak	286.00	200	Horizontal	Pass
2**	5350.550	45.69	3.16	54.0	8.31	AV	286.00	200	Horizontal	Pass

U-NII-1 11ac80 Middle Channel



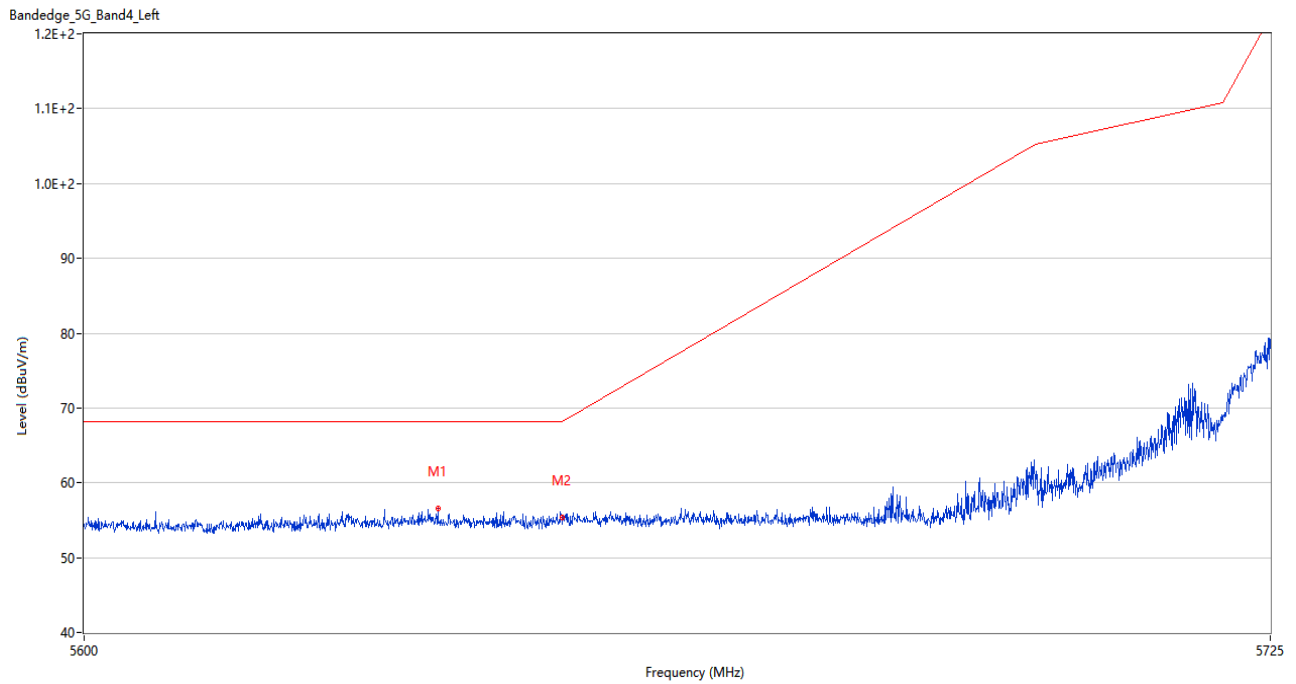
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5135.050	62.04	3.13	74.0	11.96	Peak	313.00	100	Horizontal	Pass
1**	5135.050	48.90	3.13	54.0	5.10	AV	313.00	100	Horizontal	Pass
2	5150.000	60.28	2.86	74.0	13.72	Peak	328.00	100	Horizontal	Pass
2**	5150.000	50.76	2.86	54.0	3.24	AV	328.00	100	Horizontal	Pass

U-NII-1 11ac80 Middle Channel



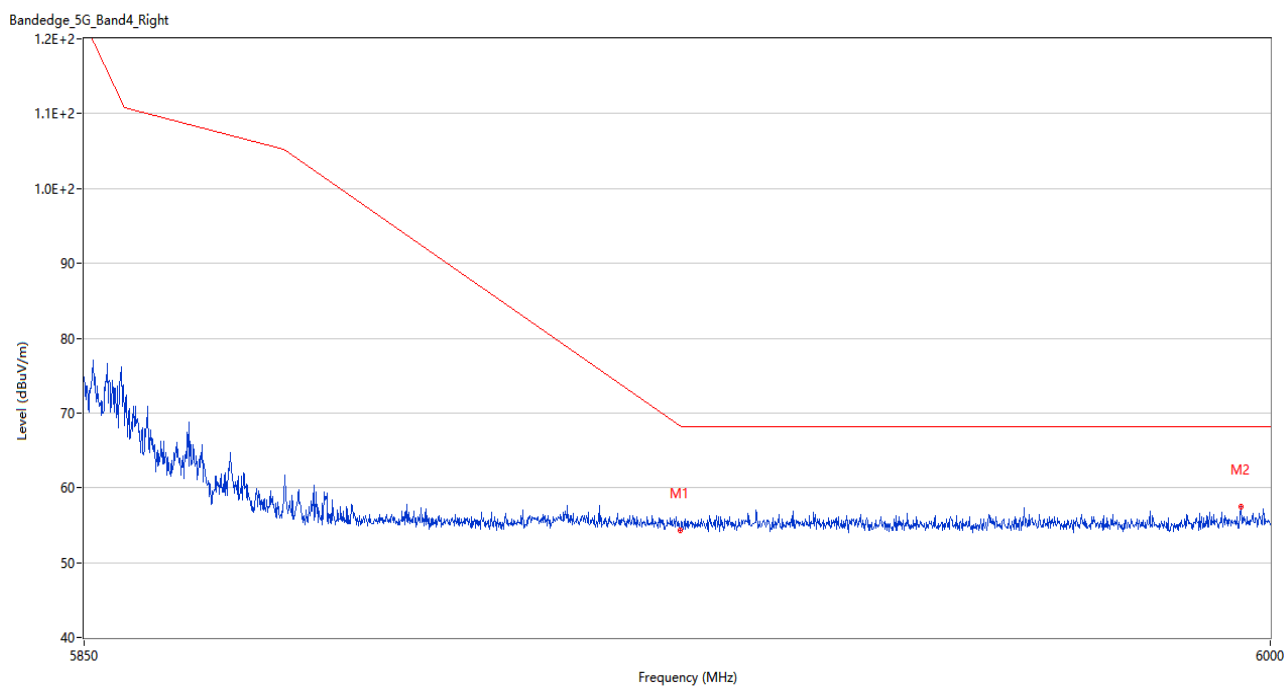
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.34	3.32	74.0	17.66	Peak	189.00	100	Horizontal	Pass
1**	5350.000	46.33	3.32	54.0	7.67	AV	189.00	100	Horizontal	Pass
2	5359.625	57.05	2.86	74.0	16.95	Peak	336.00	200	Horizontal	Pass
2**	5359.625	45.88	2.86	54.0	8.12	AV	336.00	200	Horizontal	Pass

U-NII-3 11a Low Channel



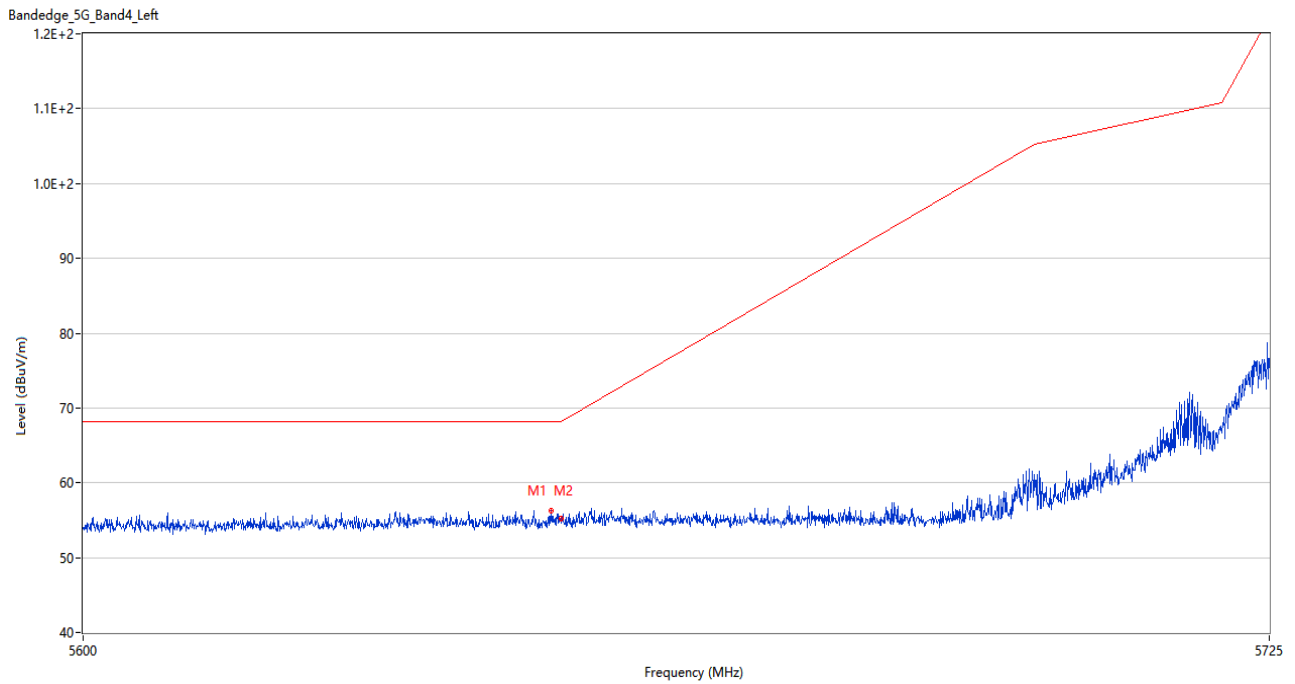
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5637.000	56.54	3.66	68.2	11.66	Peak	67.00	200	Horizontal	Pass
2	5650.000	55.38	3.72	68.2	12.82	Peak	7.00	100	Horizontal	Pass

U-NII-3 11a High Channel



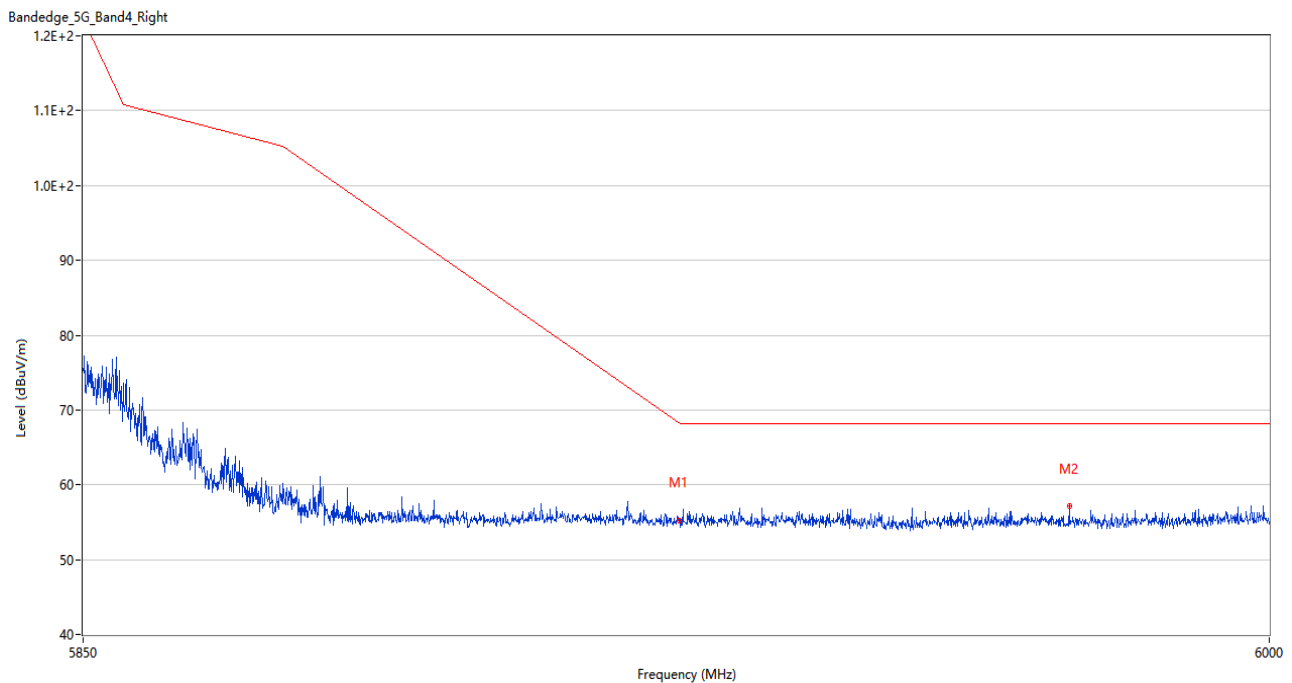
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	54.32	3.42	68.3	13.98	Peak	96.00	200	Horizontal	Pass
2	5996.250	57.43	4.60	68.2	10.77	Peak	228.00	200	Horizontal	Pass

U-NII-3 11n20 Low Channel



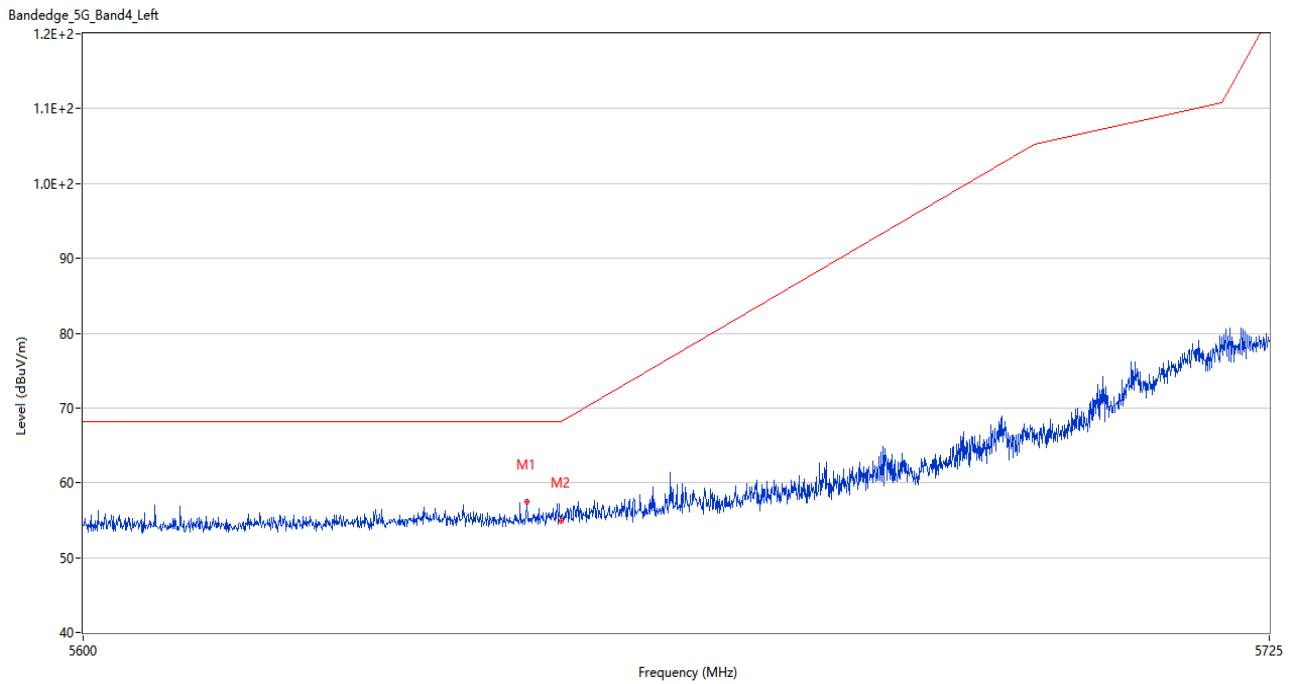
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5648.937	56.29	3.58	68.2	11.91	Peak	138.00	200	Horizontal	Pass
2	5650.000	55.27	3.72	68.2	12.93	Peak	325.00	100	Horizontal	Pass

U-NII-3 11n20 High Channel



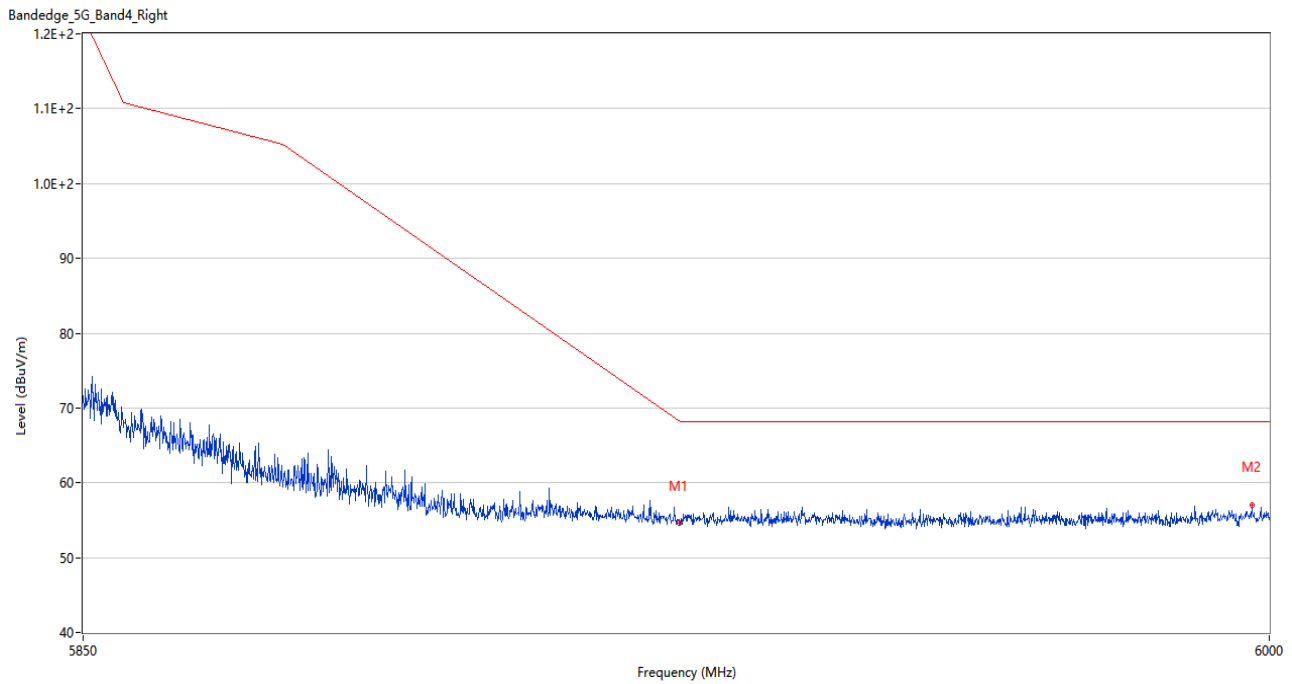
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	55.28	3.42	68.3	13.02	Peak	185.00	150	Horizontal	Pass
2	5974.425	57.17	3.85	68.2	11.03	Peak	124.00	150	Horizontal	Pass

U-NII-3 11n40 Low Channel



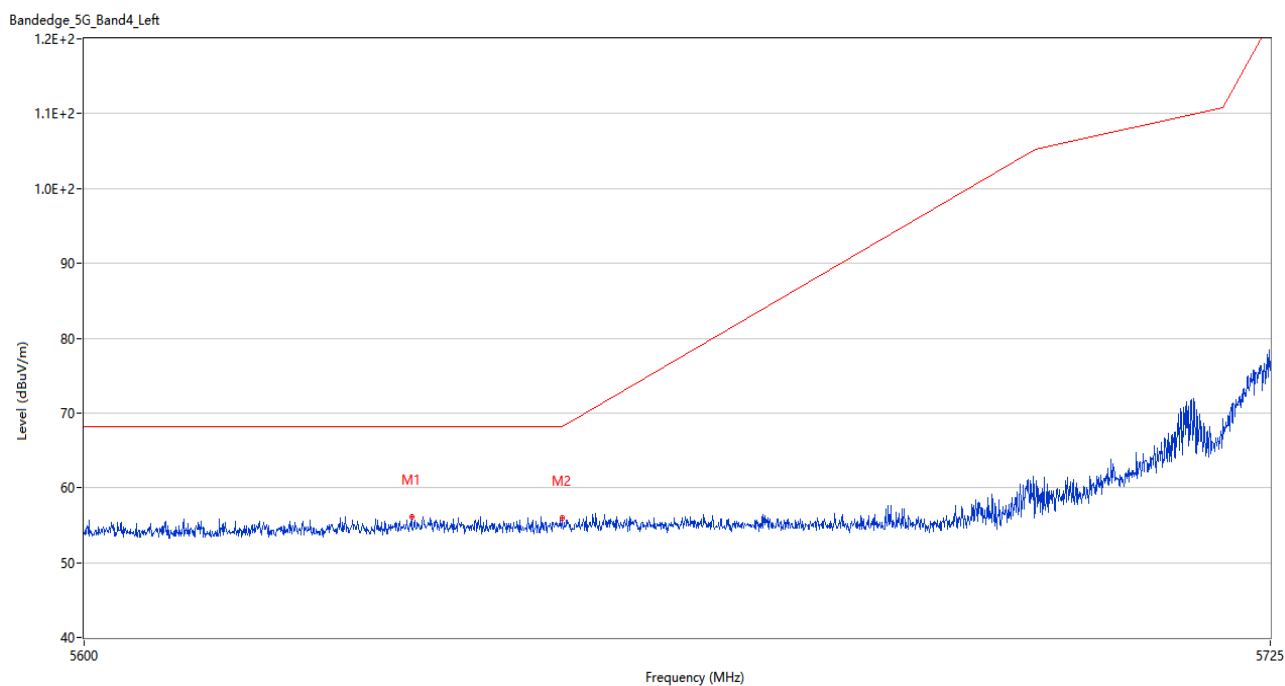
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5646.437	57.48	3.32	68.2	10.72	Peak	288.00	200	Horizontal	Pass
2	5650.000	54.97	3.72	68.2	13.23	Peak	276.00	150	Horizontal	Pass

U-NII-3 11n40 High Channel



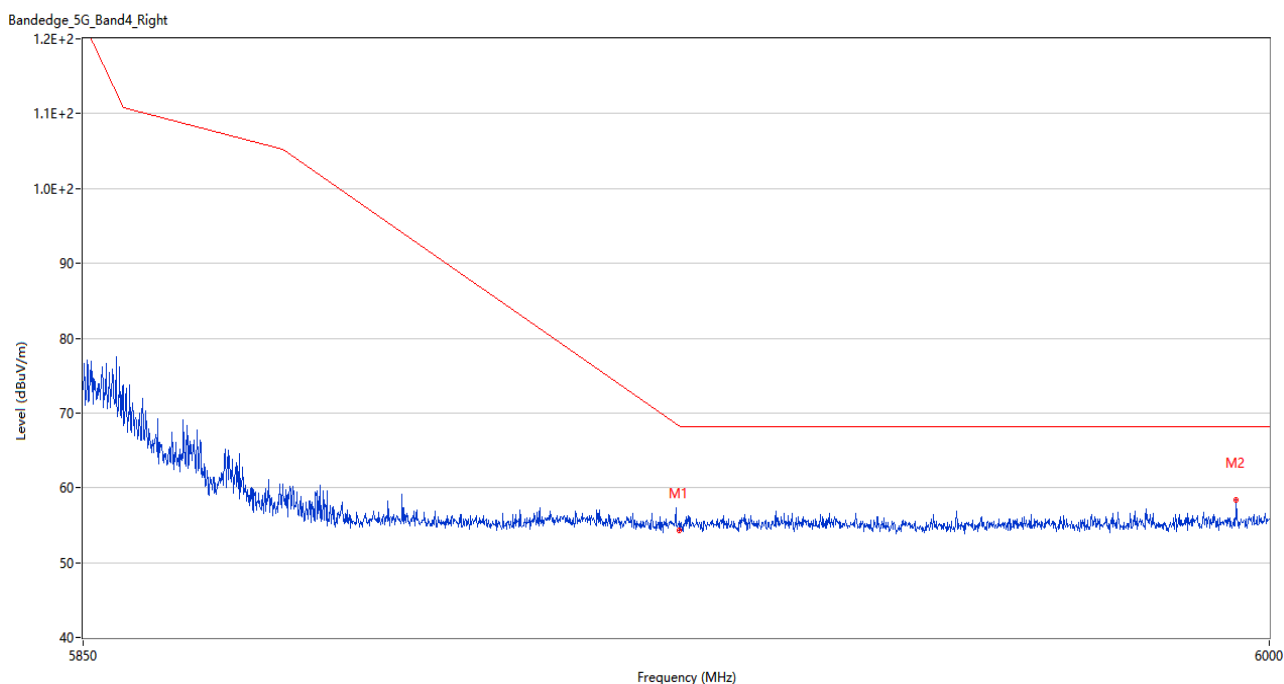
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	54.55	3.42	68.3	13.75	Peak	337.00	200	Horizontal	Pass
2	5997.750	57.10	5.02	68.2	11.10	Peak	273.00	100	Horizontal	Pass

U-NII-3 11ac20 Low Channel



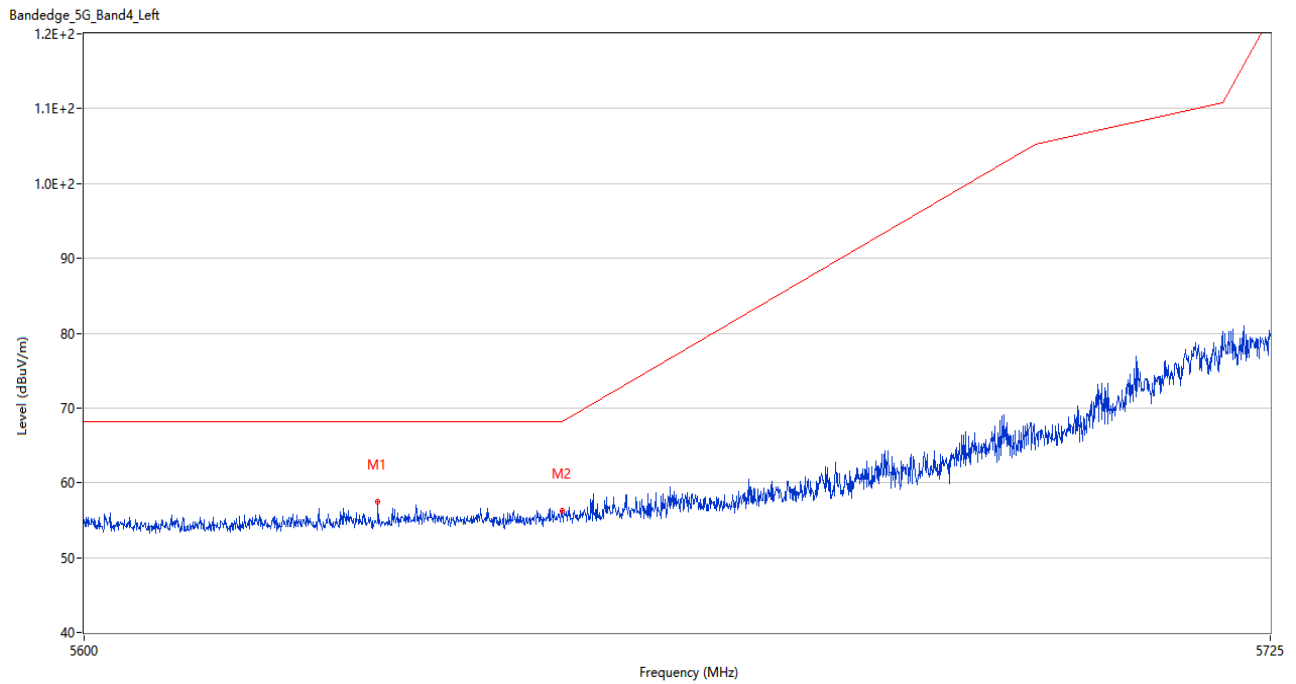
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5634.250	56.16	3.56	68.2	12.04	Peak	333.00	200	Horizontal	Pass
2	5650.000	55.90	3.72	68.2	12.30	Peak	57.00	100	Horizontal	Pass

U-NII-3 11ac20 High Channel



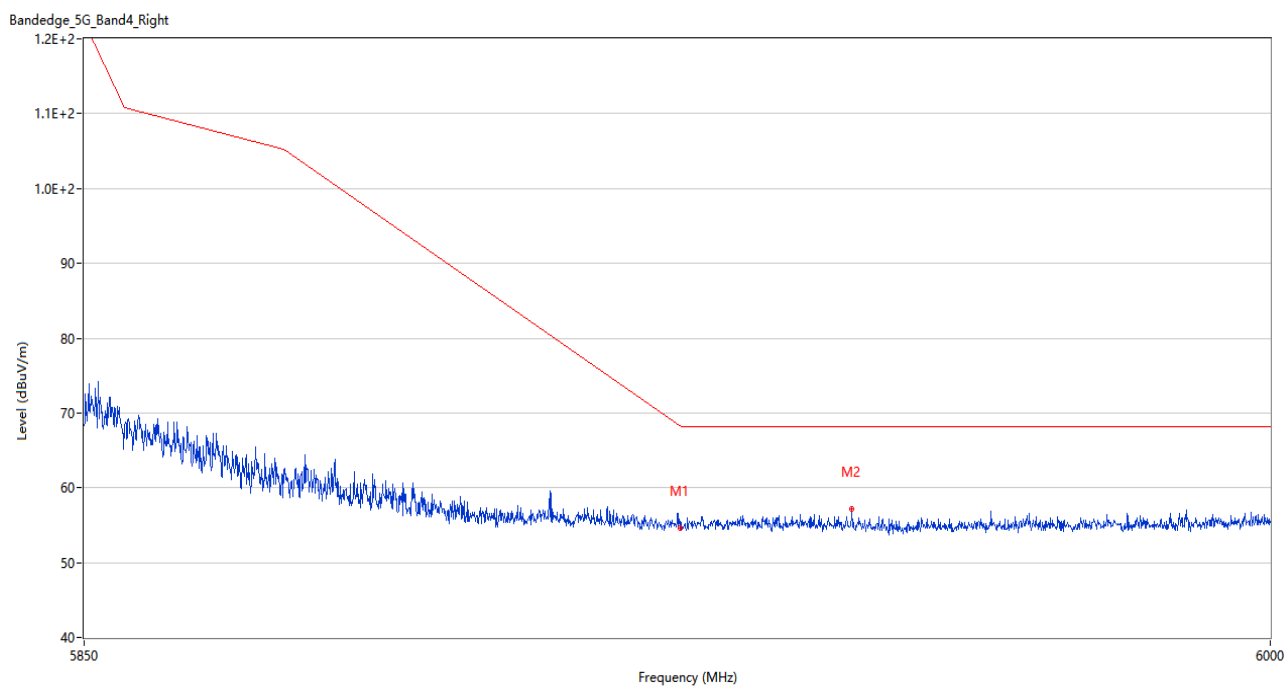
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	54.25	3.42	68.3	14.05	Peak	209.00	150	Horizontal	Pass
2	5995.800	58.37	4.56	68.2	9.83	Peak	69.00	200	Horizontal	Pass

U-NII-3 11ac40 Low Channel



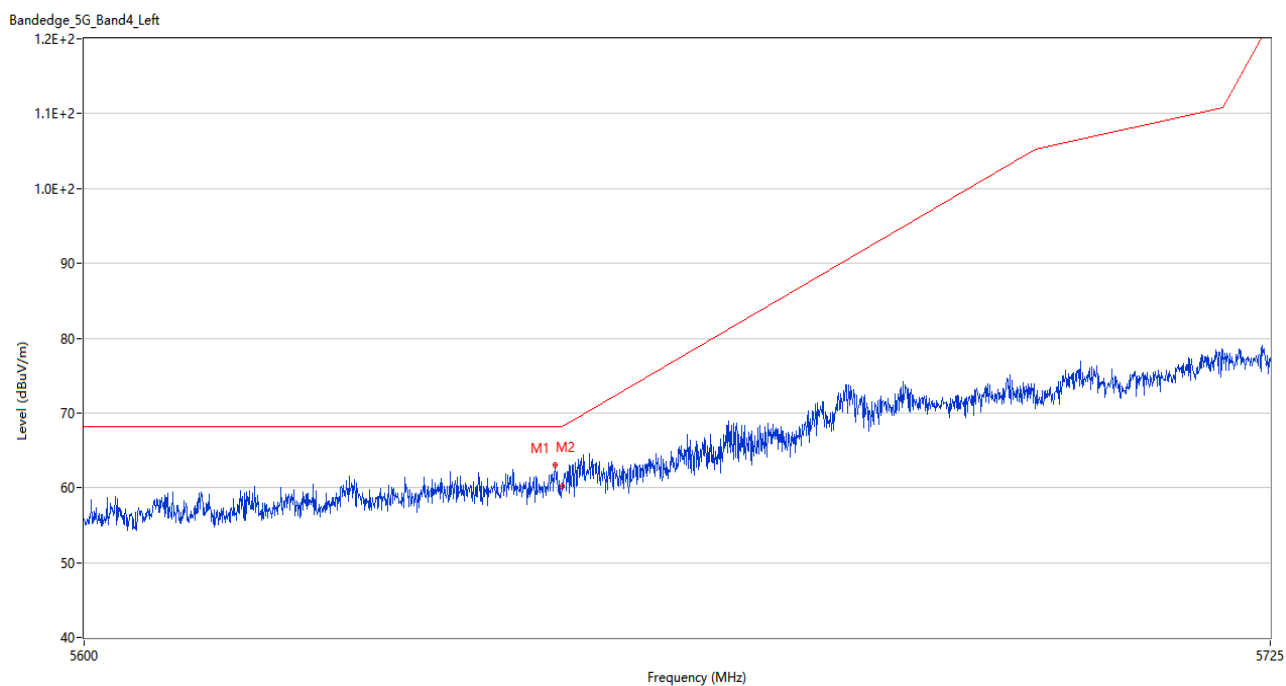
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5630.688	57.42	3.47	68.2	10.78	Peak	4.00	150	Horizontal	Pass
2	5650.000	56.21	3.72	68.2	11.99	Peak	291.00	150	Horizontal	Pass

U-NII-3 11ac40 High Channel



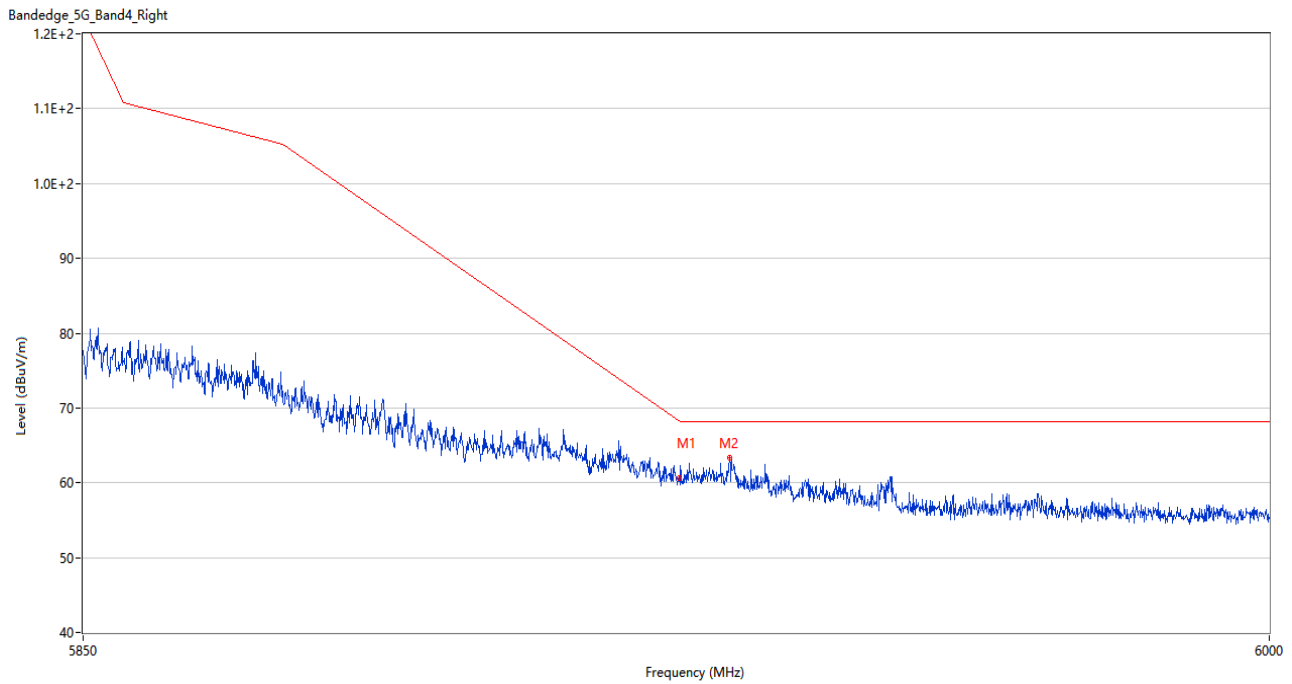
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	54.64	3.42	68.3	13.66	Peak	157.00	150	Horizontal	Pass
2	5946.675	57.17	3.65	68.2	11.03	Peak	179.00	200	Horizontal	Pass

U-NII-3 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5649.312	63.09	3.60	68.2	5.11	Peak	290.00	150	Horizontal	Pass
2	5650.000	60.21	3.72	68.2	7.99	Peak	273.00	150	Horizontal	Pass

U-NII-3 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	60.64	3.42	68.3	7.66	Peak	291.00	150	Horizontal	Pass
2	5931.300	63.33	3.58	68.2	4.87	Peak	360.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2430416-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2430416-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2430416-AI.PDF”.

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--END OF REPORT--