TEST REPORT

Applicant:	BirdDog Australia Pty Ltd
Address:	Lvl 4, 1-9 Sackville St Collingwood, VIC, 3066, Australia
Equipment Type:	PTZ Video Camera
Model Name:	X1
Brand Name:	BirdDog
FCC ID:	2A6CJ-BDX1
Test Standard:	47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date:	Apr. 12, 2024
Test Date:	Apr. 16, 2024 - Apr. 28, 2024
Date of Issue:	Jul. 08, 2024

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
Rev. 01	Jul. 08, 2024	Initial Issue

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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	BirdDog Australia Pty Ltd
Address	Lvl 4, 1-9 Sackville St Collingwood, VIC, 3066, Australia

2.2 Manufacturer Information

Manufacturer	BirdDog Technology Ltd
Address	1-9 Sackville Street, Level4, Collingwood, VIC, 3066, Australia

2.3 General Description for Equipment under Test (EUT)

EUT Name	PTZ Video Camera
Under Test Model Name	X1
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0
Software Version	V1.0.2.5
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac U-NII-1/3

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: 93.33 mW U-NII-3: 56.89 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	Dipole Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 1.98 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.39 dBi
About the Product	The equipment is PTZ Video Camera, 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	53% to 70%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.0℃ to +25.4℃
	LT (Low Temperature)	-10.0℃
	HT (High Temperature)	+40.0℃
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
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	2024.01.23	2027.01.22
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	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18

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.

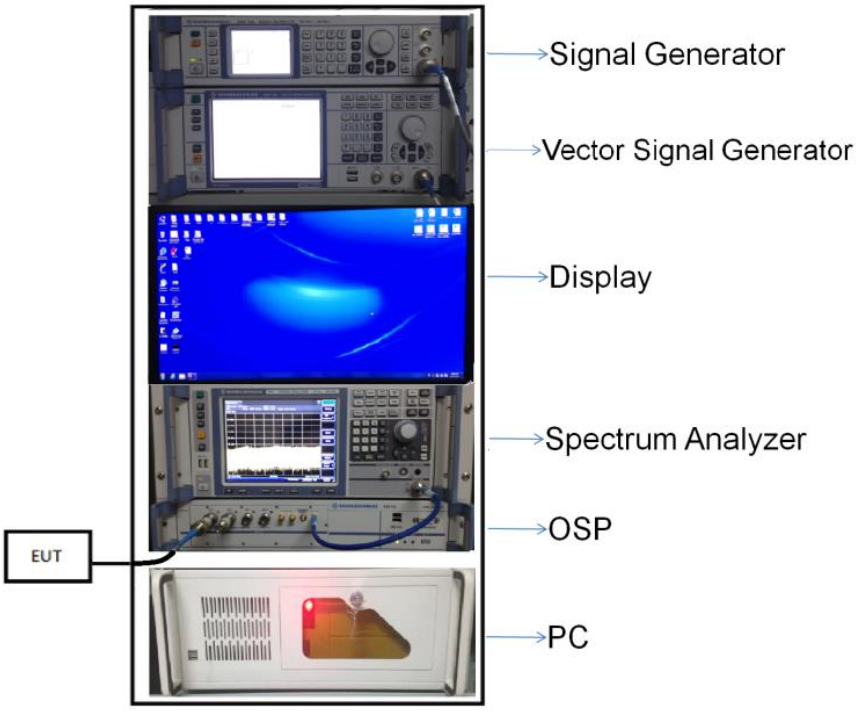
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

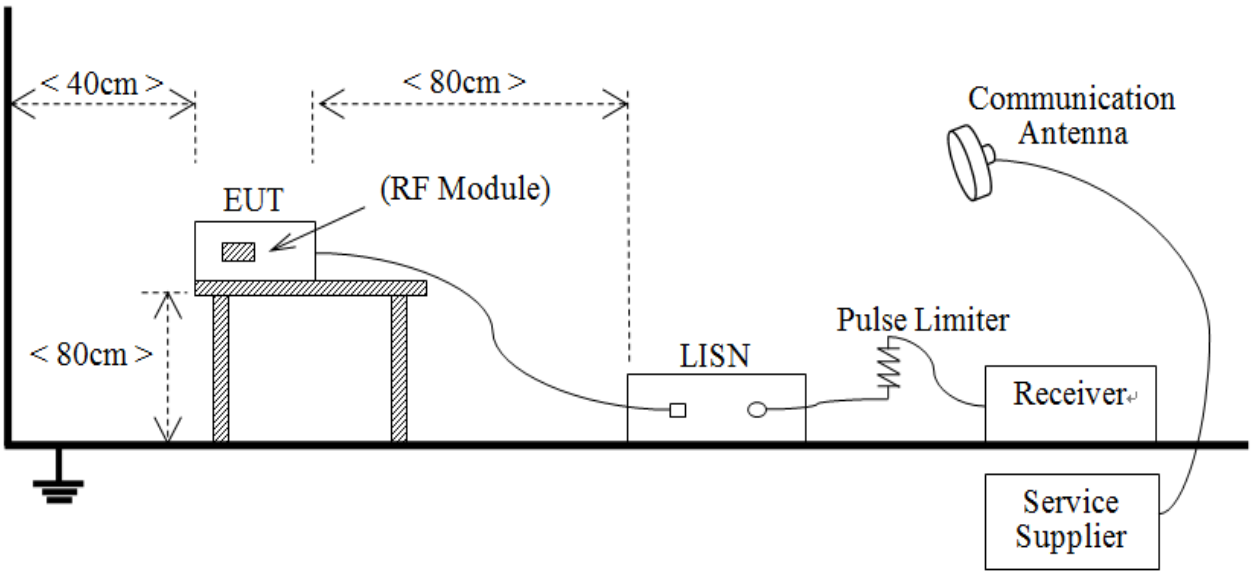
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

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



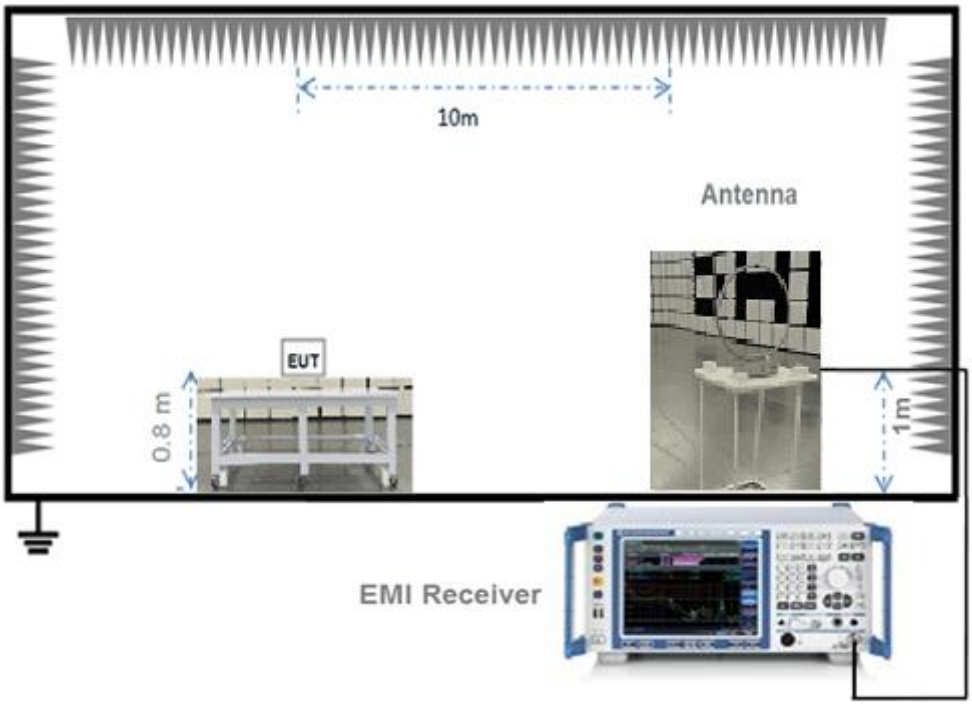
(Diagram 1)

4.5.2 For AC Power Supply Port Test



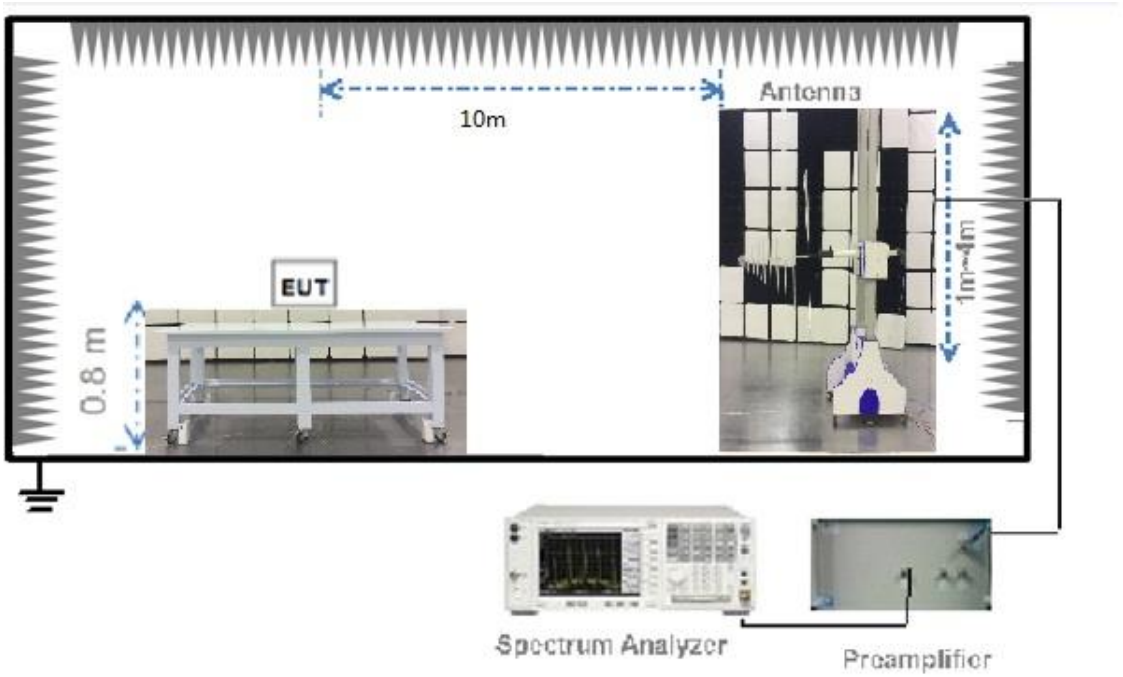
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



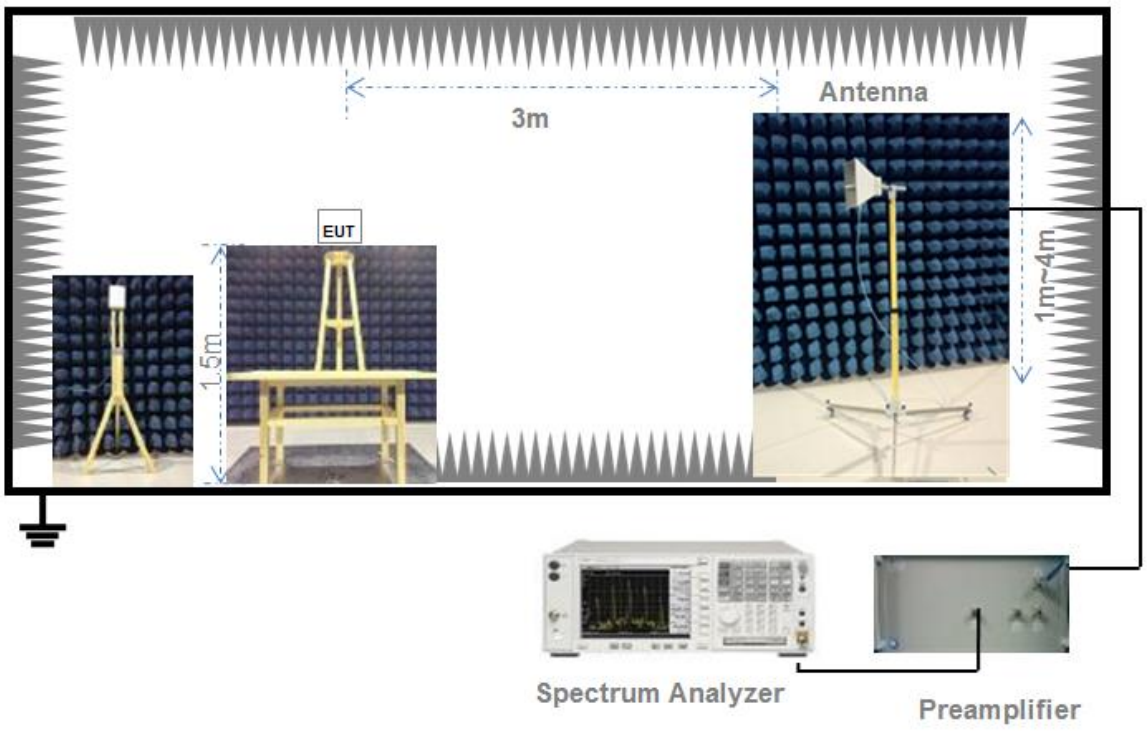
(Diagram 3)

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 ≥ 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 ≤ 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 ≥ 3*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 ≥ 3*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 ≥ 3*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 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	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 (μV/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

a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the 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).

c) 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).

d) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E = EIRP – 20log D + 104.8

where:

E = electric field strength in dBμV/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 ≥ 3 x 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 ≥ 3 x RBW.

e) Detector = RMS, if span/(# of points in sweep) ≤ (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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ 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	2.07	2.21	93.35%	0.30
11n (HT20)/11ac (VHT20)	1.93	2.06	94.06%	0.27
11n (HT40)/11ac (VHT40)	0.95	1.08	88.02%	0.55
11ac (VHT80)	0.46	0.62	74.64%	1.27

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	17.44	55.46	250	Pass
11a	CH44	19.59	90.99	250	Pass
11a	CH48	18.69	73.96	250	Pass
11n (HT20)	CH36	16.81	47.97	250	Pass
11n (HT20)	CH44	19.57	90.57	250	Pass
11n (HT20)	CH48	19.30	85.11	250	Pass
11n (HT40)	CH38	13.08	20.32	250	Pass
11n (HT40)	CH46	19.70	93.33	250	Pass
11ac (VHT20)	CH36	17.20	52.48	250	Pass
11ac (VHT20)	CH44	19.33	85.70	250	Pass
11ac (VHT20)	CH48	19.27	84.53	250	Pass
11ac (VHT40)	CH38	13.48	22.28	250	Pass
11ac (VHT40)	CH46	19.54	89.95	250	Pass
11ac (VHT80)	CH42	11.62	14.52	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.11	51.40	1000	Pass
11a	CH157	16.91	49.09	1000	Pass
11a	CH165	16.69	46.67	1000	Pass
11n (HT20)	CH149	17.32	53.95	1000	Pass
11n (HT20)	CH157	16.89	48.87	1000	Pass
11n (HT20)	CH165	16.82	48.08	1000	Pass
11n (HT40)	CH151	17.30	53.70	1000	Pass
11n (HT40)	CH159	17.02	50.35	1000	Pass
11ac (VHT20)	CH149	17.40	54.95	1000	Pass
11ac (VHT20)	CH157	17.17	52.12	1000	Pass
11ac (VHT20)	CH165	17.55	56.89	1000	Pass
11ac (VHT40)	CH151	17.13	51.64	1000	Pass
11ac (VHT40)	CH159	16.99	50.00	1000	Pass
11ac (VHT80)	CH155	16.96	49.66	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2440594-602 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	41.34	19.52
11a	CH44	46.19	28.76
11a	CH48	45.66	30.28
11n (HT20)	CH36	37.38	18.59
11n (HT20)	CH44	46.84	29.73
11n (HT20)	CH48	47.09	30.92
11n (HT40)	CH38	45.99	36.49
11n (HT40)	CH46	89.95	62.88
11ac (VHT20)	CH36	44.20	21.76
11ac (VHT20)	CH44	48.57	31.77
11ac (VHT20)	CH48	49.07	32.23
11ac (VHT40)	CH38	57.34	36.64
11ac (VHT40)	CH46	98.60	66.79
11ac (VHT80)	CH42	85.96	76.33

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	40.75	20.20
11a	CH157	42.12	19.88
11a	CH165	38.88	19.67
11n (HT20)	CH149	21.43	17.79
11n (HT20)	CH157	22.54	17.82
11n (HT20)	CH165	21.98	17.77
11n (HT40)	CH151	88.69	46.33
11n (HT40)	CH159	86.56	45.71
11ac (VHT20)	CH149	42.76	20.34
11ac (VHT20)	CH157	43.45	20.22
11ac (VHT20)	CH165	40.81	19.85
11ac (VHT40)	CH151	97.71	47.26
11ac (VHT40)	CH159	90.08	47.57
11ac (VHT80)	CH155	186.00	98.91

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2440594-602 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.50	500.00	Pass
11a	CH157	16.60	500.00	Pass
11a	CH165	16.60	500.00	Pass
11n (HT20)	CH149	17.20	500.00	Pass
11n (HT20)	CH157	17.10	500.00	Pass
11n (HT20)	CH165	17.50	500.00	Pass
11n (HT40)	CH151	36.10	500.00	Pass
11n (HT40)	CH159	36.00	500.00	Pass
11ac (VHT20)	CH149	17.40	500.00	Pass
11ac (VHT20)	CH157	17.20	500.00	Pass
11ac (VHT20)	CH165	17.50	500.00	Pass
11ac (VHT40)	CH151	36.00	500.00	Pass
11ac (VHT40)	CH159	36.00	500.00	Pass
11ac (VHT80)	CH155	75.40	500.00	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document “Annex No.: BL-SZ2440594-602 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	5.75	11.00	Pass
11a	CH44	7.28	11.00	Pass
11a	CH48	7.25	11.00	Pass
11n (HT20)	CH36	4.90	11.00	Pass
11n (HT20)	CH44	6.94	11.00	Pass
11n (HT20)	CH48	7.02	11.00	Pass
11n (HT40)	CH38	-1.94	11.00	Pass
11n (HT40)	CH46	3.89	11.00	Pass
11ac (VHT20)	CH36	5.31	11.00	Pass
11ac (VHT20)	CH44	6.96	11.00	Pass
11ac (VHT20)	CH48	6.96	11.00	Pass
11ac (VHT40)	CH38	-1.60	11.00	Pass
11ac (VHT40)	CH46	3.84	11.00	Pass
11ac (VHT80)	CH42	-5.02	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	2.29	30.00	Pass
11a	CH157	2.02	30.00	Pass
11a	CH165	1.97	30.00	Pass
11n (HT20)	CH149	2.13	30.00	Pass
11n (HT20)	CH157	1.84	30.00	Pass
11n (HT20)	CH165	1.63	30.00	Pass
11n (HT40)	CH151	-0.99	30.00	Pass
11n (HT40)	CH159	-1.37	30.00	Pass
11ac (VHT20)	CH149	2.13	30.00	Pass
11ac (VHT20)	CH157	1.69	30.00	Pass
11ac (VHT20)	CH165	1.70	30.00	Pass
11ac (VHT40)	CH151	-0.86	30.00	Pass
11ac (VHT40)	CH159	-1.25	30.00	Pass
11ac (VHT80)	CH155	-3.33	30.00	Pass

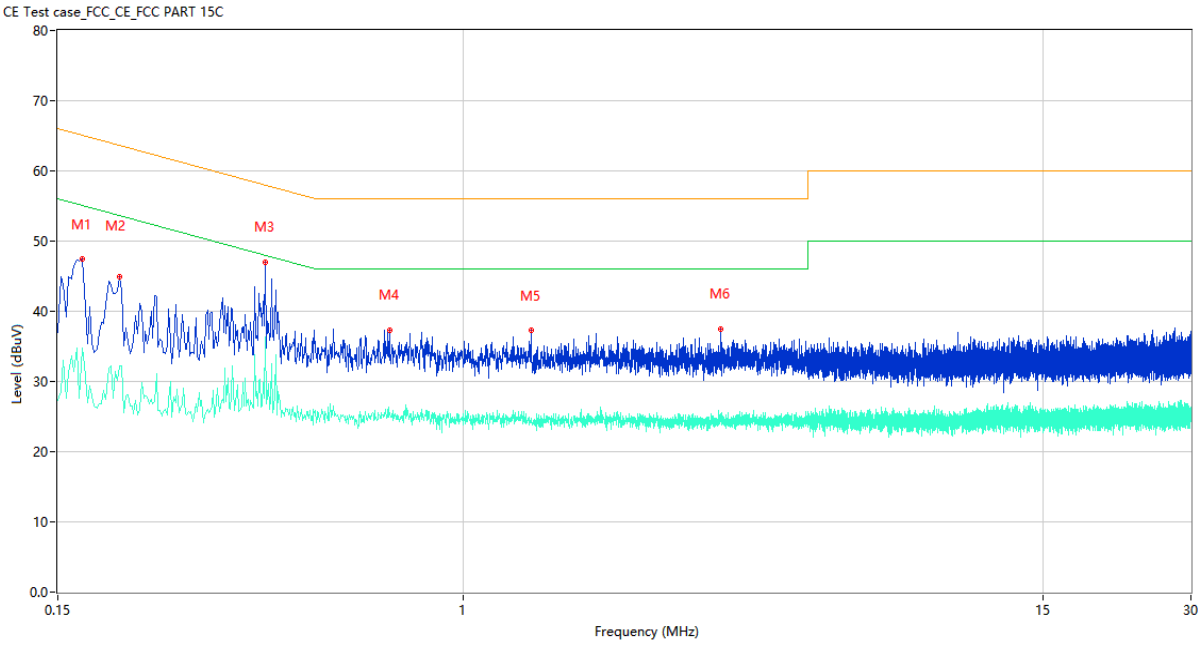
A.5 Conducted Emissions

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

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

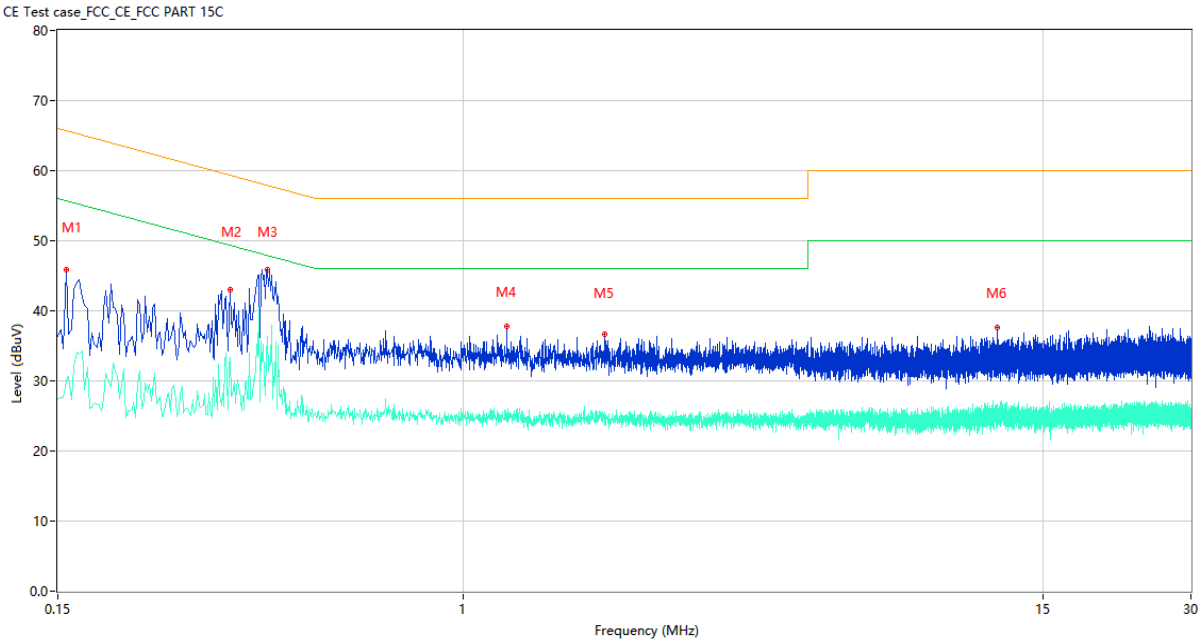
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	47.44	9.78	65.06	17.62	Peak	L	Pass
1**	0.168	34.80	9.78	55.06	20.26	AV	L	Pass
2	0.200	44.96	9.77	63.61	18.65	Peak	L	Pass
2**	0.200	32.23	9.77	53.61	21.38	AV	L	Pass
3	0.396	47.02	10.57	57.94	10.92	Peak	L	Pass
3**	0.396	36.39	10.57	47.94	11.55	AV	L	Pass
4	0.708	37.34	10.57	56.00	18.66	Peak	L	Pass
4**	0.708	25.52	10.57	46.00	20.48	AV	L	Pass
5	1.370	37.29	9.89	56.00	18.71	Peak	L	Pass
5**	1.370	24.76	9.89	46.00	21.24	AV	L	Pass
6	3.328	37.52	10.40	56.00	18.48	Peak	L	Pass
6**	3.328	25.40	10.40	46.00	20.60	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	45.90	9.78	65.67	19.77	Peak	N	Pass
1**	0.156	29.95	9.78	55.67	25.72	AV	N	Pass
2	0.336	43.00	10.48	59.30	16.30	Peak	N	Pass
2**	0.336	33.32	10.48	49.30	15.98	AV	N	Pass
3	0.400	45.83	10.55	57.85	12.02	Peak	N	Pass
3**	0.400	36.28	10.55	47.85	11.57	AV	N	Pass
4	1.224	37.72	10.18	56.00	18.28	Peak	N	Pass
4**	1.224	25.46	10.18	46.00	20.54	AV	N	Pass
5	1.932	36.70	10.35	56.00	19.30	Peak	N	Pass
5**	1.932	24.80	10.35	46.00	21.20	AV	N	Pass
6	12.126	37.54	10.43	60.00	22.46	Peak	N	Pass
6**	12.126	25.82	10.43	50.00	24.18	AV	N	Pass

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

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

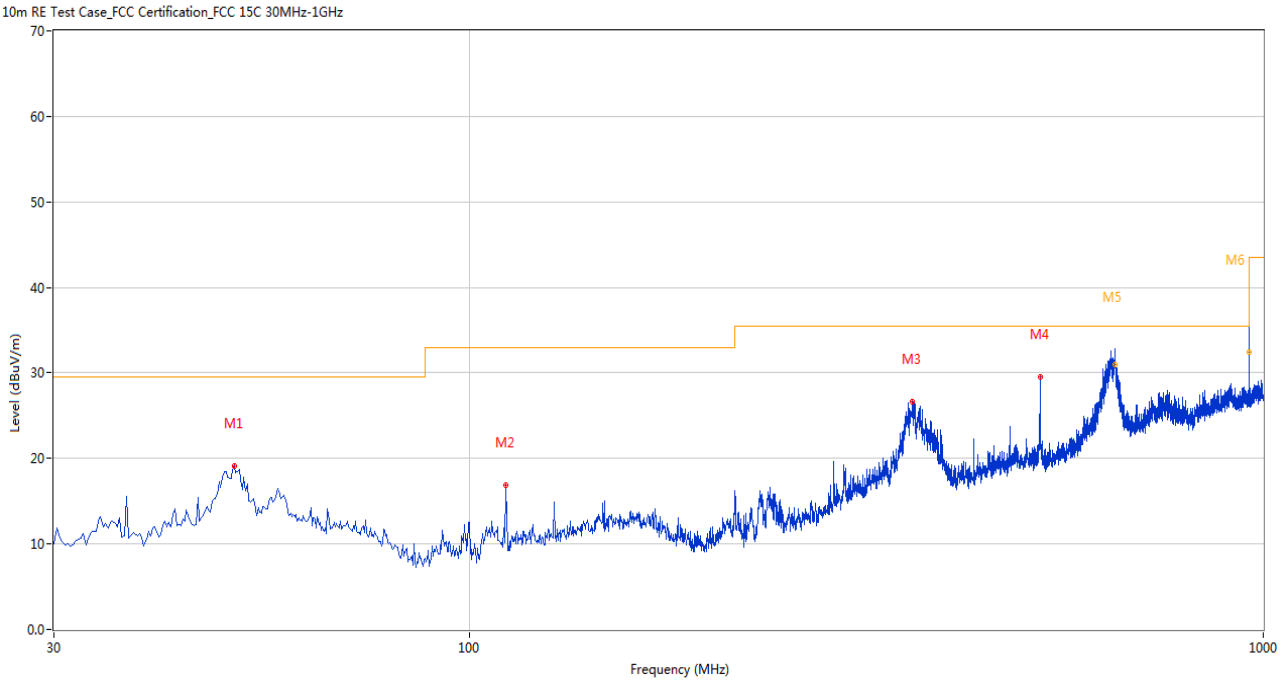
Note [2]: For the test data above 1 GHz， According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

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

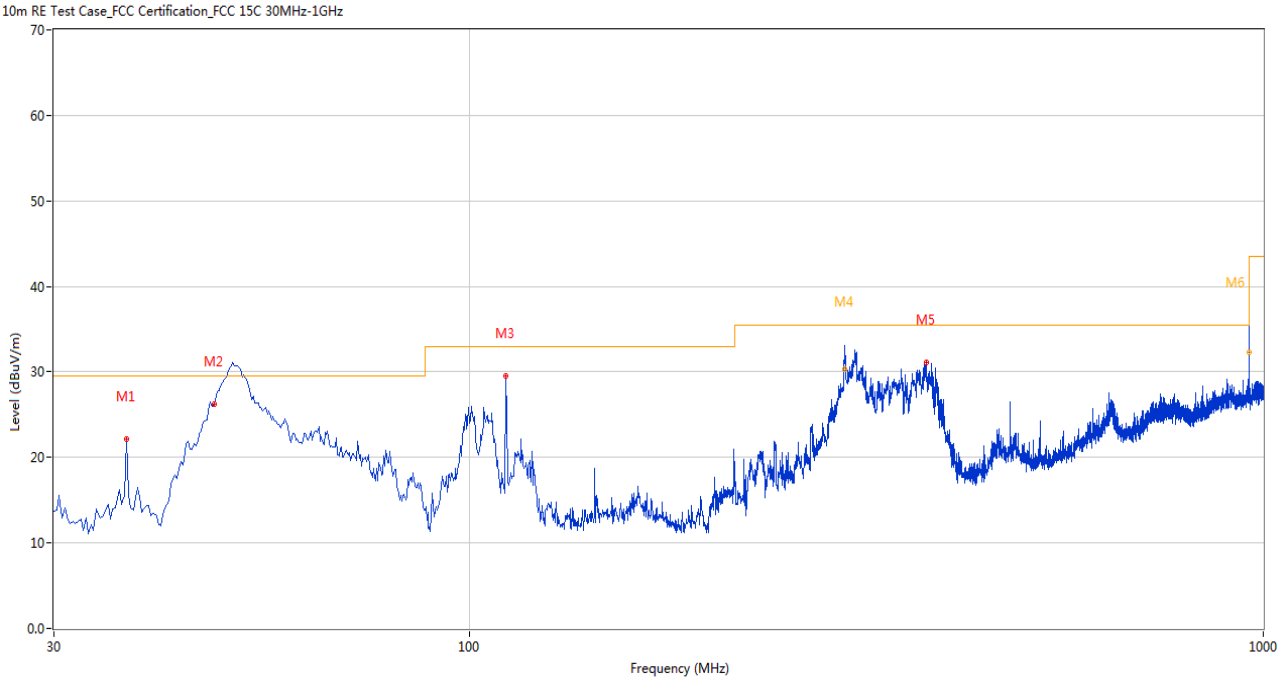
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.607	19.11	-25.96	29.5	10.39	Peak	16.00	200	Horizontal	Pass
2	111.217	16.89	-29.13	33.0	16.11	Peak	96.00	200	Horizontal	Pass
3	361.900	26.64	-23.38	35.5	8.86	Peak	233.00	200	Horizontal	Pass
4	523.364	29.49	-18.99	35.5	6.01	Peak	230.00	100	Horizontal	Pass
5	649.918	32.81	-15.75	35.5	2.69	Peak	127.00	100	Horizontal	N/A
5*	649.918	31.01	-15.75	35.5	4.49	QP	127.00	100	Horizontal	Pass
6	959.998	35.93	-10.60	35.5	-0.43	Peak	233.00	100	Horizontal	N/A
6*	959.998	32.39	-10.60	35.5	3.11	QP	233.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.031	22.19	-26.89	29.5	7.31	Peak	109.00	100	Vertical	Pass
2	50.393	28.82	-26.01	29.5	0.68	Peak	195.00	147	Vertical	N/A
2*	50.393	25.54	-26.01	29.5	3.96	QP	195.00	147	Vertical	Pass
3	111.217	29.49	-29.13	33.0	3.51	Peak	360.00	100	Vertical	Pass
4	297.411	33.12	-25.09	35.5	2.38	Peak	248.00	100	Vertical	N/A
4*	297.411	30.30	-25.09	35.5	5.20	QP	248.00	100	Vertical	Pass
5	376.203	31.11	-22.78	35.5	4.39	Peak	214.00	100	Vertical	Pass
6	960.170	39.39	-10.60	35.5	-3.89	Peak	106.00	162	Vertical	N/A
6*	960.170	32.26	-10.60	35.5	3.24	QP	106.00	162	Vertical	Pass

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

11a, U-NII-1, 1 GHz to 18 GHz, 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	1571.000	40.48	-19.94	74.0	33.52	Peak	247.00	400	Horizontal	Pass
1**	1571.000	32.75	-19.94	54.0	21.25	AV	247.00	400	Horizontal	Pass
2	2799.400	43.52	-12.78	74.0	30.48	Peak	30.00	100	Horizontal	Pass
2**	2799.400	34.34	-12.78	54.0	19.66	AV	30.00	100	Horizontal	Pass
3	4330.500	47.63	-5.98	74.0	26.37	Peak	360.00	100	Horizontal	Pass
3**	4330.500	37.79	-5.98	54.0	16.21	AV	360.00	100	Horizontal	Pass
4	5185.500	102.21	-4.57	--	--	Peak	136.00	100	Horizontal	N/A
4**	5185.500	94.63	-4.57	--	--	AV	136.00	100	Horizontal	N/A
5	7493.750	54.59	-0.42	74.0	19.41	Peak	47.00	150	Horizontal	Pass
5**	7493.750	45.23	-0.42	54.0	8.77	AV	47.00	150	Horizontal	Pass
6	12448.612	52.84	0.87	74.0	21.16	Peak	333.00	100	Horizontal	Pass
6**	12448.612	43.38	0.87	54.0	10.62	AV	333.00	100	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	1570.600	44.07	-19.94	74.0	29.93	Peak	295.00	400	Vertical	Pass
1**	1570.600	36.46	-19.94	54.0	17.54	AV	295.00	400	Vertical	Pass
2	2876.600	43.69	-12.38	74.0	30.31	Peak	280.00	200	Vertical	Pass
2**	2876.600	34.36	-12.38	54.0	19.64	AV	280.00	200	Vertical	Pass
3	4123.250	47.26	-7.05	74.0	26.74	Peak	173.00	100	Vertical	Pass
3**	4123.250	37.52	-7.05	54.0	16.48	AV	173.00	100	Vertical	Pass
4	5185.250	108.81	-4.60	--	--	Peak	306.00	300	Vertical	N/A
4**	5185.250	101.41	-4.60	--	--	AV	306.00	300	Vertical	N/A
5	7687.500	54.29	-1.43	74.0	19.71	Peak	112.00	150	Vertical	Pass
5**	7687.500	45.86	-1.43	54.0	8.14	AV	112.00	150	Vertical	Pass
6	12422.487	52.90	0.57	74.0	21.10	Peak	153.00	400	Vertical	Pass
6**	12422.487	44.12	0.57	54.0	9.88	AV	153.00	400	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	1570.200	41.99	-19.94	74.0	32.01	Peak	245.00	200	Horizontal	Pass
1**	1570.200	34.60	-19.94	54.0	19.40	AV	245.00	200	Horizontal	Pass
2	2889.000	44.12	-12.14	74.0	29.88	Peak	0.00	400	Horizontal	Pass
2**	2889.000	34.60	-12.14	54.0	19.40	AV	0.00	400	Horizontal	Pass
3	4312.500	47.82	-6.09	74.0	26.18	Peak	316.00	150	Horizontal	Pass
3**	4312.500	37.86	-6.09	54.0	16.14	AV	316.00	150	Horizontal	Pass
4	5216.000	101.62	-4.70	--	--	Peak	134.00	200	Horizontal	N/A
4**	5216.000	94.34	-4.70	--	--	AV	134.00	200	Horizontal	N/A
5	7531.000	54.59	-0.65	74.0	19.41	Peak	229.00	150	Horizontal	Pass
5**	7531.000	44.44	-0.65	54.0	9.56	AV	229.00	150	Horizontal	Pass
6	12610.588	53.35	1.06	74.0	20.65	Peak	207.00	200	Horizontal	Pass
6**	12610.588	43.22	1.06	54.0	10.78	AV	207.00	200	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	1570.600	42.94	-19.94	74.0	31.06	Peak	292.00	400	Vertical	Pass
1**	1570.600	36.44	-19.94	54.0	17.56	AV	292.00	400	Vertical	Pass
2	2850.400	43.99	-12.17	74.0	30.01	Peak	330.00	300	Vertical	Pass
2**	2850.400	33.74	-12.17	54.0	20.26	AV	330.00	300	Vertical	Pass
3	4341.500	47.59	-6.32	74.0	26.41	Peak	261.00	150	Vertical	Pass
3**	4341.500	38.62	-6.32	54.0	15.38	AV	261.00	150	Vertical	Pass
4	5213.750	108.87	-4.70	--	--	Peak	303.00	200	Vertical	N/A
4**	5213.750	102.13	-4.70	--	--	AV	303.00	200	Vertical	N/A
5	7537.250	54.07	-0.26	74.0	19.93	Peak	217.00	100	Vertical	Pass
5**	7537.250	44.96	-0.26	54.0	9.04	AV	217.00	100	Vertical	Pass
6	12359.550	53.15	0.65	74.0	20.85	Peak	360.00	300	Vertical	Pass
6**	12359.550	43.48	0.65	54.0	10.52	AV	360.00	300	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	1570.500	41.30	-19.94	74.0	32.70	Peak	250.00	400	Horizontal	Pass
1**	1570.500	35.12	-19.94	54.0	18.88	AV	250.00	400	Horizontal	Pass
2	2762.600	43.51	-12.78	74.0	30.49	Peak	360.00	200	Horizontal	Pass
2**	2762.600	33.74	-12.78	54.0	20.26	AV	360.00	200	Horizontal	Pass
3	4296.250	47.13	-6.71	74.0	26.87	Peak	161.00	150	Horizontal	Pass
3**	4296.250	38.03	-6.71	54.0	15.97	AV	161.00	150	Horizontal	Pass
4	5244.750	101.17	-5.27	--	--	Peak	135.00	100	Horizontal	N/A
4**	5244.750	92.86	-5.27	--	--	AV	135.00	100	Horizontal	N/A
5	7698.750	53.88	-1.41	74.0	20.12	Peak	277.00	200	Horizontal	Pass
5**	7698.750	44.78	-1.41	54.0	9.22	AV	277.00	200	Horizontal	Pass
6	12452.888	52.67	0.87	74.0	21.33	Peak	32.00	300	Horizontal	Pass
6**	12452.888	44.02	0.87	54.0	9.98	AV	32.00	300	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	1570.600	43.82	-19.94	74.0	30.18	Peak	290.00	100	Vertical	Pass
1**	1570.600	40.58	-19.94	54.0	13.42	AV	290.00	100	Vertical	Pass
2	2728.300	43.60	-11.48	74.0	30.40	Peak	146.00	100	Vertical	Pass
2**	2728.300	33.96	-11.48	54.0	20.04	AV	146.00	100	Vertical	Pass
3	4353.750	47.40	-6.60	74.0	26.60	Peak	286.00	200	Vertical	Pass
3**	4353.750	38.40	-6.60	54.0	15.60	AV	286.00	200	Vertical	Pass
4	5234.500	109.79	-5.11	--	--	Peak	312.00	100	Vertical	N/A
4**	5234.500	101.71	-5.11	--	--	AV	312.00	100	Vertical	N/A
5	7488.500	54.29	-0.33	74.0	19.71	Peak	200.00	150	Vertical	Pass
5**	7488.500	45.32	-0.33	54.0	8.68	AV	200.00	150	Vertical	Pass
6	12302.312	52.74	0.66	74.0	21.26	Peak	173.00	300	Vertical	Pass
6**	12302.312	44.35	0.66	54.0	9.65	AV	173.00	300	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	1570.200	41.23	-19.94	74.0	32.77	Peak	244.00	300	Horizontal	Pass
1**	1570.200	32.23	-19.94	54.0	21.77	AV	244.00	300	Horizontal	Pass
2	2731.500	43.58	-11.59	74.0	30.42	Peak	148.00	400	Horizontal	Pass
2**	2731.500	34.35	-11.59	54.0	19.65	AV	148.00	400	Horizontal	Pass
3	4336.500	48.53	-6.10	74.0	25.47	Peak	12.00	100	Horizontal	Pass
3**	4336.500	39.75	-6.10	54.0	14.25	AV	12.00	100	Horizontal	Pass
4	5186.250	102.19	-4.50	--	--	Peak	134.00	200	Horizontal	N/A
4**	5186.250	94.49	-4.50	--	--	AV	134.00	200	Horizontal	N/A
5	7493.500	54.67	-0.42	74.0	19.33	Peak	55.00	150	Horizontal	Pass
5**	7493.500	45.91	-0.42	54.0	8.09	AV	55.00	150	Horizontal	Pass
6	12325.112	53.17	0.70	74.0	20.83	Peak	102.00	100	Horizontal	Pass
6**	12325.112	43.76	0.70	54.0	10.24	AV	102.00	100	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	1570.600	43.92	-19.94	74.0	30.08	Peak	294.00	200	Vertical	Pass
1**	1570.600	36.73	-19.94	54.0	17.27	AV	294.00	200	Vertical	Pass
2	2732.300	43.62	-11.62	74.0	30.38	Peak	352.00	400	Vertical	Pass
2**	2732.300	34.52	-11.62	54.0	19.48	AV	352.00	400	Vertical	Pass
3	4344.250	48.08	-6.33	74.0	25.92	Peak	329.00	150	Vertical	Pass
3**	4344.250	39.54	-6.33	54.0	14.46	AV	329.00	150	Vertical	Pass
4	5185.750	107.79	-4.55	--	--	Peak	310.00	100	Vertical	N/A
4**	5185.750	100.73	-4.55	--	--	AV	310.00	100	Vertical	N/A
5	7518.000	54.39	-1.22	74.0	19.61	Peak	22.00	200	Vertical	Pass
5**	7518.000	45.34	-1.22	54.0	8.66	AV	22.00	200	Vertical	Pass
6	12296.375	53.30	0.63	74.0	20.70	Peak	124.00	400	Vertical	Pass
6**	12296.375	43.51	0.63	54.0	10.49	AV	124.00	400	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	1570.500	42.09	-19.94	74.0	31.91	Peak	248.00	400	Horizontal	Pass
1**	1570.500	33.77	-19.94	54.0	20.23	AV	248.00	400	Horizontal	Pass
2	2824.800	43.63	-12.67	74.0	30.37	Peak	196.00	300	Horizontal	Pass
2**	2824.800	34.49	-12.67	54.0	19.51	AV	196.00	300	Horizontal	Pass
3	4330.500	47.75	-5.98	74.0	26.25	Peak	217.00	200	Horizontal	Pass
3**	4330.500	38.42	-5.98	54.0	15.58	AV	217.00	200	Horizontal	Pass
4	5224.250	100.98	-4.83	--	--	Peak	129.00	200	Horizontal	N/A
4**	5224.250	93.85	-4.83	--	--	AV	129.00	200	Horizontal	N/A
5	7542.000	55.30	-0.25	74.0	18.70	Peak	285.00	150	Horizontal	Pass
5**	7542.000	45.39	-0.25	54.0	8.61	AV	285.00	150	Horizontal	Pass
6	12612.487	53.17	1.04	74.0	20.83	Peak	260.00	400	Horizontal	Pass
6**	12612.487	43.81	1.04	54.0	10.19	AV	260.00	400	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	1570.500	43.13	-19.94	74.0	30.87	Peak	272.00	200	Vertical	Pass
1**	1570.500	35.75	-19.94	54.0	18.25	AV	272.00	200	Vertical	Pass
2	2829.800	43.87	-12.56	74.0	30.13	Peak	107.00	400	Vertical	Pass
2**	2829.800	33.65	-12.56	54.0	20.35	AV	107.00	400	Vertical	Pass
3	4334.000	47.79	-6.12	74.0	26.21	Peak	309.00	200	Vertical	Pass
3**	4334.000	38.98	-6.12	54.0	15.02	AV	309.00	200	Vertical	Pass
4	5214.250	109.12	-4.70	--	--	Peak	301.00	100	Vertical	N/A
4**	5214.250	102.29	-4.70	--	--	AV	301.00	100	Vertical	N/A
5	7492.500	54.63	-0.41	74.0	19.37	Peak	77.00	150	Vertical	Pass
5**	7492.500	45.30	-0.41	54.0	8.70	AV	77.00	150	Vertical	Pass
6	12299.700	52.77	0.65	74.0	21.23	Peak	140.00	200	Vertical	Pass
6**	12299.700	44.38	0.65	54.0	9.62	AV	140.00	200	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	1571.100	41.85	-19.94	74.0	32.15	Peak	243.00	400	Horizontal	Pass
1**	1571.100	33.04	-19.94	54.0	20.96	AV	243.00	400	Horizontal	Pass
2	2867.500	43.63	-12.37	74.0	30.37	Peak	88.00	200	Horizontal	Pass
2**	2867.500	34.70	-12.37	54.0	19.30	AV	88.00	200	Horizontal	Pass
3	4325.750	47.12	-5.94	74.0	26.88	Peak	93.00	200	Horizontal	Pass
3**	4325.750	38.23	-5.94	54.0	15.77	AV	93.00	200	Horizontal	Pass
4	5233.500	100.58	-5.13	--	--	Peak	102.00	200	Horizontal	N/A
4**	5233.500	92.96	-5.13	--	--	AV	102.00	200	Horizontal	N/A
5	7498.500	54.54	-0.67	74.0	19.46	Peak	305.00	200	Horizontal	Pass
5**	7498.500	45.02	-0.67	54.0	8.98	AV	305.00	200	Horizontal	Pass
6	12571.875	53.30	1.41	74.0	20.70	Peak	137.00	200	Horizontal	Pass
6**	12571.875	43.24	1.41	54.0	10.76	AV	137.00	200	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	1571.000	43.21	-19.94	74.0	30.79	Peak	290.00	300	Vertical	Pass
1**	1571.000	34.61	-19.94	54.0	19.39	AV	290.00	300	Vertical	Pass
2	2889.500	44.11	-12.15	74.0	29.89	Peak	199.00	400	Vertical	Pass
2**	2889.500	34.41	-12.15	54.0	19.59	AV	199.00	400	Vertical	Pass
3	4224.500	47.27	-7.62	74.0	26.73	Peak	149.00	150	Vertical	Pass
3**	4224.500	37.55	-7.62	54.0	16.45	AV	149.00	150	Vertical	Pass
4	5241.250	108.53	-5.19	--	--	Peak	305.00	200	Vertical	N/A
4**	5241.250	100.60	-5.19	--	--	AV	305.00	200	Vertical	N/A
5	7493.750	54.60	-0.42	74.0	19.40	Peak	246.00	100	Vertical	Pass
5**	7493.750	47.02	-0.42	54.0	6.98	AV	246.00	100	Vertical	Pass
6	12607.500	53.12	1.09	74.0	20.88	Peak	351.00	100	Vertical	Pass
6**	12607.500	43.97	1.09	54.0	10.03	AV	351.00	100	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	1459.300	42.26	-19.71	74.0	31.74	Peak	315.00	300	Horizontal	Pass
1**	1459.300	29.32	-19.71	54.0	24.68	AV	315.00	300	Horizontal	Pass
2	2868.400	44.11	-12.42	74.0	29.89	Peak	155.00	200	Horizontal	Pass
2**	2868.400	34.99	-12.42	54.0	19.01	AV	155.00	200	Horizontal	Pass
3	4317.750	47.44	-5.95	74.0	26.56	Peak	31.00	100	Horizontal	Pass
3**	4317.750	38.26	-5.95	54.0	15.74	AV	31.00	100	Horizontal	Pass
4	5192.750	99.05	-4.38	--	--	Peak	140.00	400	Horizontal	N/A
4**	5192.750	90.56	-4.38	--	--	AV	140.00	400	Horizontal	N/A
5	7494.750	53.96	-0.40	74.0	20.04	Peak	61.00	200	Horizontal	Pass
5**	7494.750	46.07	-0.40	54.0	7.93	AV	61.00	200	Horizontal	Pass
6	12419.401	52.95	0.53	74.0	21.05	Peak	324.00	200	Horizontal	Pass
6**	12419.401	43.38	0.53	54.0	10.62	AV	324.00	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	1570.400	43.47	-19.94	74.0	30.53	Peak	276.00	200	Vertical	Pass
1**	1570.400	36.22	-19.94	54.0	17.78	AV	276.00	200	Vertical	Pass
2	2739.500	43.58	-12.23	74.0	30.42	Peak	122.00	400	Vertical	Pass
2**	2739.500	34.15	-12.23	54.0	19.85	AV	122.00	400	Vertical	Pass
3	4306.000	47.12	-6.39	74.0	26.88	Peak	277.00	150	Vertical	Pass
3**	4306.000	37.92	-6.39	54.0	16.08	AV	277.00	150	Vertical	Pass
4	5192.500	106.04	-4.38	--	--	Peak	303.00	100	Vertical	N/A
4**	5192.500	98.07	-4.38	--	--	AV	303.00	100	Vertical	N/A
5	7494.250	55.25	-0.41	74.0	18.75	Peak	62.00	100	Vertical	Pass
5**	7494.250	44.99	-0.41	54.0	9.01	AV	62.00	100	Vertical	Pass
6	12295.663	53.08	0.63	74.0	20.92	Peak	347.00	300	Vertical	Pass
6**	12295.663	43.45	0.63	54.0	10.55	AV	347.00	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	1570.400	40.29	-19.94	74.0	33.71	Peak	238.00	200	Horizontal	Pass
1**	1570.400	32.80	-19.94	54.0	21.20	AV	238.00	200	Horizontal	Pass
2	2729.300	43.63	-11.50	74.0	30.37	Peak	93.00	300	Horizontal	Pass
2**	2729.300	33.80	-11.50	54.0	20.20	AV	93.00	300	Horizontal	Pass
3	4322.250	47.37	-5.92	74.0	26.63	Peak	28.00	200	Horizontal	Pass
3**	4322.250	38.14	-5.92	54.0	15.86	AV	28.00	200	Horizontal	Pass
4	5217.500	98.71	-4.73	--	--	Peak	131.00	300	Horizontal	N/A
4**	5217.500	90.60	-4.73	--	--	AV	131.00	300	Horizontal	N/A
5	7598.250	54.17	-0.38	74.0	19.83	Peak	114.00	100	Horizontal	Pass
5**	7598.250	45.81	-0.38	54.0	8.19	AV	114.00	100	Horizontal	Pass
6	12331.763	52.94	0.71	74.0	21.06	Peak	348.00	400	Horizontal	Pass
6**	12331.763	43.51	0.71	54.0	10.49	AV	348.00	400	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	1570.300	43.56	-19.94	74.0	30.44	Peak	289.00	300	Vertical	Pass
1**	1570.300	35.14	-19.94	54.0	18.86	AV	289.00	300	Vertical	Pass
2	2867.600	43.51	-12.38	74.0	30.49	Peak	336.00	100	Vertical	Pass
2**	2867.600	34.12	-12.38	54.0	19.88	AV	336.00	100	Vertical	Pass
3	4329.000	47.68	-5.94	74.0	26.32	Peak	0.00	100	Vertical	Pass
3**	4329.000	38.19	-5.94	54.0	15.81	AV	0.00	100	Vertical	Pass
4	5244.000	106.46	-5.27	--	--	Peak	311.00	100	Vertical	N/A
4**	5244.000	98.96	-5.27	--	--	AV	311.00	100	Vertical	N/A
5	7534.500	54.34	-0.45	74.0	19.66	Peak	157.00	150	Vertical	Pass
5**	7534.500	45.19	-0.45	54.0	8.81	AV	157.00	150	Vertical	Pass
6	12430.562	52.73	0.66	74.0	21.27	Peak	77.00	400	Vertical	Pass
6**	12430.562	42.72	0.66	54.0	11.28	AV	77.00	400	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	1570.900	41.24	-19.94	74.0	32.76	Peak	251.00	300	Horizontal	Pass
1**	1570.900	34.23	-19.94	54.0	19.77	AV	251.00	300	Horizontal	Pass
2	2855.400	44.07	-12.32	74.0	29.93	Peak	278.00	200	Horizontal	Pass
2**	2855.400	34.97	-12.32	54.0	19.03	AV	278.00	200	Horizontal	Pass
3	4369.750	47.46	-6.93	74.0	26.54	Peak	139.00	200	Horizontal	Pass
3**	4369.750	38.05	-6.93	54.0	15.95	AV	139.00	200	Horizontal	Pass
4	5185.500	101.56	-4.57	--	--	Peak	131.00	100	Horizontal	N/A
4**	5185.500	93.63	-4.57	--	--	AV	131.00	100	Horizontal	N/A
5	7499.750	54.89	-0.73	74.0	19.11	Peak	269.00	200	Horizontal	Pass
5**	7499.750	45.99	-0.73	54.0	8.01	AV	269.00	200	Horizontal	Pass
6	12552.637	52.80	1.59	74.0	21.20	Peak	157.00	100	Horizontal	Pass
6**	12552.637	42.94	1.59	54.0	11.06	AV	157.00	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	1570.200	44.82	-19.94	74.0	29.18	Peak	294.00	200	Vertical	Pass
1**	1570.200	35.62	-19.94	54.0	18.38	AV	294.00	200	Vertical	Pass
2	2879.200	44.81	-12.33	74.0	29.19	Peak	194.00	200	Vertical	Pass
2**	2879.200	34.55	-12.33	54.0	19.45	AV	194.00	200	Vertical	Pass
3	4356.250	47.16	-6.65	74.0	26.84	Peak	164.00	200	Vertical	Pass
3**	4356.250	38.19	-6.65	54.0	15.81	AV	164.00	200	Vertical	Pass
4	5186.500	108.16	-4.48	--	--	Peak	302.00	300	Vertical	N/A
4**	5186.500	100.56	-4.48	--	--	AV	302.00	300	Vertical	N/A
5	7596.750	55.12	-0.45	74.0	18.88	Peak	276.00	100	Vertical	Pass
5**	7596.750	46.63	-0.45	54.0	7.37	AV	276.00	100	Vertical	Pass
6	12577.338	54.39	1.36	74.0	19.61	Peak	360.00	400	Vertical	Pass
6**	12577.338	43.42	1.36	54.0	10.58	AV	360.00	400	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	1570.500	41.08	-19.94	74.0	32.92	Peak	242.00	300	Horizontal	Pass
1**	1570.500	36.12	-19.94	54.0	17.88	AV	242.00	300	Horizontal	Pass
2	2875.400	44.08	-12.35	74.0	29.92	Peak	108.00	400	Horizontal	Pass
2**	2875.400	34.50	-12.35	54.0	19.50	AV	108.00	400	Horizontal	Pass
3	4370.750	48.05	-6.99	74.0	25.95	Peak	312.00	200	Horizontal	Pass
3**	4370.750	38.49	-6.99	54.0	15.51	AV	312.00	200	Horizontal	Pass
4	5215.500	100.94	-4.70	--	--	Peak	138.00	100	Horizontal	N/A
4**	5215.500	94.18	-4.70	--	--	AV	138.00	100	Horizontal	N/A
5	7546.000	54.41	-0.58	74.0	19.59	Peak	43.00	150	Horizontal	Pass
5**	7546.000	46.05	-0.58	54.0	7.95	AV	43.00	150	Horizontal	Pass
6	12451.700	52.54	0.88	74.0	21.46	Peak	125.00	200	Horizontal	Pass
6**	12451.700	43.52	0.88	54.0	10.48	AV	125.00	200	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	1570.700	42.96	-19.94	74.0	31.04	Peak	280.00	300	Vertical	Pass
1**	1570.700	35.52	-19.94	54.0	18.48	AV	280.00	300	Vertical	Pass
2	2725.200	43.67	-11.69	74.0	30.33	Peak	202.00	300	Vertical	Pass
2**	2725.200	34.31	-11.69	54.0	19.69	AV	202.00	300	Vertical	Pass
3	4324.500	47.69	-5.93	74.0	26.31	Peak	131.00	100	Vertical	Pass
3**	4324.500	38.25	-5.93	54.0	15.75	AV	131.00	100	Vertical	Pass
4	5217.250	109.23	-4.72	--	--	Peak	296.00	300	Vertical	N/A
4**	5217.250	101.14	-4.72	--	--	AV	296.00	300	Vertical	N/A
5	7591.000	54.07	-0.74	74.0	19.93	Peak	28.00	150	Vertical	Pass
5**	7591.000	45.73	-0.74	54.0	8.27	AV	28.00	150	Vertical	Pass
6	12424.863	52.54	0.60	74.0	21.46	Peak	312.00	400	Vertical	Pass
6**	12424.863	43.96	0.60	54.0	10.04	AV	312.00	400	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	1570.500	41.35	-19.94	74.0	32.65	Peak	248.00	300	Horizontal	Pass
1**	1570.500	35.72	-19.94	54.0	18.28	AV	248.00	300	Horizontal	Pass
2	2840.700	43.60	-12.45	74.0	30.40	Peak	252.00	200	Horizontal	Pass
2**	2840.700	34.39	-12.45	54.0	19.61	AV	252.00	200	Horizontal	Pass
3	4332.750	47.59	-6.09	74.0	26.41	Peak	288.00	200	Horizontal	Pass
3**	4332.750	38.46	-6.09	54.0	15.54	AV	288.00	200	Horizontal	Pass
4	5246.000	100.53	-5.26	--	--	Peak	138.00	300	Horizontal	N/A
4**	5246.000	92.60	-5.26	--	--	AV	138.00	300	Horizontal	N/A
5	7542.250	54.25	-0.27	74.0	19.75	Peak	78.00	100	Horizontal	Pass
5**	7542.250	45.48	-0.27	54.0	8.52	AV	78.00	100	Horizontal	Pass
6	12577.338	53.36	1.36	74.0	20.64	Peak	233.00	400	Horizontal	Pass
6**	12577.338	43.73	1.36	54.0	10.27	AV	233.00	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	1570.700	43.76	-19.94	74.0	30.24	Peak	295.00	100	Vertical	Pass
1**	1570.700	36.20	-19.94	54.0	17.80	AV	295.00	100	Vertical	Pass
2	2722.000	43.59	-11.92	74.0	30.41	Peak	95.00	200	Vertical	Pass
2**	2722.000	34.23	-11.92	54.0	19.77	AV	95.00	200	Vertical	Pass
3	4361.500	47.55	-6.69	74.0	26.45	Peak	27.00	150	Vertical	Pass
3**	4361.500	38.21	-6.69	54.0	15.79	AV	27.00	150	Vertical	Pass
4	5235.500	109.58	-5.10	--	--	Peak	303.00	300	Vertical	N/A
4**	5235.500	101.69	-5.10	--	--	AV	303.00	300	Vertical	N/A
5	7574.250	54.41	-1.57	74.0	19.59	Peak	27.00	150	Vertical	Pass
5**	7574.250	44.56	-1.57	54.0	9.44	AV	27.00	150	Vertical	Pass
6	12449.325	52.64	0.88	74.0	21.36	Peak	306.00	100	Vertical	Pass
6**	12449.325	43.97	0.88	54.0	10.03	AV	306.00	100	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	1570.300	42.62	-19.94	74.0	31.38	Peak	239.00	200	Horizontal	Pass
1**	1570.300	36.82	-19.94	54.0	17.18	AV	239.00	200	Horizontal	Pass
2	2877.800	44.22	-12.38	74.0	29.78	Peak	260.00	100	Horizontal	Pass
2**	2877.800	34.48	-12.38	54.0	19.52	AV	260.00	100	Horizontal	Pass
3	4344.000	47.48	-6.30	74.0	26.52	Peak	245.00	100	Horizontal	Pass
3**	4344.000	39.01	-6.30	54.0	14.99	AV	245.00	100	Horizontal	Pass
4	5187.750	98.98	-4.41	--	--	Peak	137.00	300	Horizontal	N/A
4**	5187.750	91.03	-4.41	--	--	AV	137.00	300	Horizontal	N/A
5	7589.500	54.67	-0.84	74.0	19.33	Peak	177.00	100	Horizontal	Pass
5**	7589.500	44.53	-0.84	54.0	9.47	AV	177.00	100	Horizontal	Pass
6	12416.787	52.73	0.50	74.0	21.27	Peak	150.00	200	Horizontal	Pass
6**	12416.787	44.01	0.50	54.0	9.99	AV	150.00	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	1570.500	42.78	-19.94	74.0	31.22	Peak	284.00	400	Vertical	Pass
1**	1570.500	35.10	-19.94	54.0	18.90	AV	284.00	400	Vertical	Pass
2	2874.800	44.30	-12.36	74.0	29.70	Peak	100.00	150	Vertical	Pass
2**	2874.800	34.10	-12.36	54.0	19.90	AV	100.00	150	Vertical	Pass
3	4330.000	47.48	-5.97	74.0	26.52	Peak	113.00	150	Vertical	Pass
3**	4330.000	38.37	-5.97	54.0	15.63	AV	113.00	150	Vertical	Pass
4	5196.750	106.01	-4.36	--	--	Peak	305.00	200	Vertical	N/A
4**	5196.750	97.36	-4.36	--	--	AV	305.00	200	Vertical	N/A
5	7595.250	54.51	-0.48	74.0	19.49	Peak	235.00	200	Vertical	Pass
5**	7595.250	44.80	-0.48	54.0	9.20	AV	235.00	200	Vertical	Pass
6	12300.888	53.43	0.66	74.0	20.57	Peak	266.00	200	Vertical	Pass
6**	12300.888	43.58	0.66	54.0	10.42	AV	266.00	200	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	1570.100	41.38	-19.94	74.0	32.62	Peak	239.00	100	Horizontal	Pass
1**	1570.100	36.41	-19.94	54.0	17.59	AV	239.00	100	Horizontal	Pass
2	2783.000	43.60	-12.96	74.0	30.40	Peak	132.00	400	Horizontal	Pass
2**	2783.000	34.51	-12.96	54.0	19.49	AV	132.00	400	Horizontal	Pass
3	4339.000	47.44	-6.21	74.0	26.56	Peak	173.00	150	Horizontal	Pass
3**	4339.000	37.97	-6.21	54.0	16.03	AV	173.00	150	Horizontal	Pass
4	5221.250	97.82	-4.79	--	--	Peak	138.00	400	Horizontal	N/A
4**	5221.250	90.48	-4.79	--	--	AV	138.00	400	Horizontal	N/A
5	7594.500	54.34	-0.50	74.0	19.66	Peak	338.00	150	Horizontal	Pass
5**	7594.500	45.10	-0.50	54.0	8.90	AV	338.00	150	Horizontal	Pass
6	12575.674	52.92	1.37	74.0	21.08	Peak	9.00	300	Horizontal	Pass
6**	12575.674	44.29	1.37	54.0	9.71	AV	9.00	300	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	1570.600	43.42	-19.94	74.0	30.58	Peak	296.00	100	Vertical	Pass
1**	1570.600	37.58	-19.94	54.0	16.42	AV	296.00	100	Vertical	Pass
2	2879.200	43.88	-12.33	74.0	30.12	Peak	296.00	400	Vertical	Pass
2**	2879.200	34.16	-12.33	54.0	19.84	AV	296.00	400	Vertical	Pass
3	4290.500	48.54	-6.74	74.0	25.46	Peak	136.00	100	Vertical	Pass
3**	4290.500	38.02	-6.74	54.0	15.98	AV	136.00	100	Vertical	Pass
4	5232.750	106.28	-5.14	--	--	Peak	311.00	300	Vertical	N/A
4**	5232.750	98.87	-5.14	--	--	AV	311.00	300	Vertical	N/A
5	7497.750	54.23	-0.62	74.0	19.77	Peak	4.00	150	Vertical	Pass
5**	7497.750	45.94	-0.62	54.0	8.06	AV	4.00	150	Vertical	Pass
6	12639.088	53.40	0.82	74.0	20.60	Peak	162.00	200	Vertical	Pass
6**	12639.088	43.30	0.82	54.0	10.70	AV	162.00	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	1570.800	42.47	-19.94	74.0	31.53	Peak	252.00	400	Horizontal	Pass
1**	1570.800	36.72	-19.94	54.0	17.28	AV	252.00	400	Horizontal	Pass
2	2741.400	43.84	-12.47	74.0	30.16	Peak	106.00	400	Horizontal	Pass
2**	2741.400	33.60	-12.47	54.0	20.40	AV	106.00	400	Horizontal	Pass
3	4346.000	47.23	-6.48	74.0	26.77	Peak	27.00	200	Horizontal	Pass
3**	4346.000	38.20	-6.48	54.0	15.80	AV	27.00	200	Horizontal	Pass
4	5220.250	96.26	-4.80	--	--	Peak	132.00	400	Horizontal	N/A
4**	5220.250	87.85	-4.80	--	--	AV	132.00	400	Horizontal	N/A
5	7514.750	54.23	-1.30	74.0	19.77	Peak	36.00	200	Horizontal	Pass
5**	7514.750	44.95	-1.30	54.0	9.05	AV	36.00	200	Horizontal	Pass
6	12419.401	53.17	0.53	74.0	20.83	Peak	256.00	200	Horizontal	Pass
6**	12419.401	43.61	0.53	54.0	10.39	AV	256.00	200	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	1570.600	44.86	-19.94	74.0	29.14	Peak	277.00	300	Vertical	Pass
1**	1570.600	37.58	-19.94	54.0	16.42	AV	277.00	300	Vertical	Pass
2	2790.900	44.26	-12.59	74.0	29.74	Peak	197.00	100	Vertical	Pass
2**	2790.900	34.32	-12.59	54.0	19.68	AV	197.00	100	Vertical	Pass
3	4353.250	47.35	-6.61	74.0	26.65	Peak	360.00	150	Vertical	Pass
3**	4353.250	38.27	-6.61	54.0	15.73	AV	360.00	150	Vertical	Pass
4	5228.000	103.49	-4.96	--	--	Peak	306.00	300	Vertical	N/A
4**	5228.000	95.76	-4.96	--	--	AV	306.00	300	Vertical	N/A
5	7504.250	54.50	-1.00	74.0	19.50	Peak	267.00	100	Vertical	Pass
5**	7504.250	45.35	-1.00	54.0	8.65	AV	267.00	100	Vertical	Pass
6	12367.388	53.42	0.59	74.0	20.58	Peak	142.00	100	Vertical	Pass
6**	12367.388	44.67	0.59	54.0	9.33	AV	142.00	100	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	1570.400	42.31	-19.94	74.0	31.69	Peak	0.00	300	Horizontal	Pass
1**	1570.400	37.62	-19.94	54.0	16.38	AV	0.00	300	Horizontal	Pass
2	2705.800	43.66	-12.82	74.0	30.34	Peak	12.00	100	Horizontal	Pass
2**	2705.800	34.26	-12.82	54.0	19.74	AV	12.00	100	Horizontal	Pass
3	4339.750	47.21	-6.25	74.0	26.79	Peak	286.00	100	Horizontal	Pass
3**	4339.750	39.59	-6.25	54.0	14.41	AV	286.00	100	Horizontal	Pass
4	5750.250	100.91	-5.24	--	--	Peak	127.00	200	Horizontal	N/A
4**	5750.250	93.58	-5.24	--	--	AV	127.00	200	Horizontal	N/A
5	7503.250	54.79	-0.96	74.0	19.21	Peak	188.00	200	Horizontal	Pass
5**	7503.250	45.57	-0.96	54.0	8.43	AV	188.00	200	Horizontal	Pass
6	12550.025	52.88	1.61	74.0	21.12	Peak	360.00	400	Horizontal	Pass
6**	12550.025	44.63	1.61	54.0	9.37	AV	360.00	400	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	1570.700	44.24	-19.94	74.0	29.76	Peak	282.00	400	Vertical	Pass
1**	1570.700	39.74	-19.94	54.0	14.26	AV	282.00	400	Vertical	Pass
2	2839.000	44.62	-12.53	74.0	29.38	Peak	265.00	400	Vertical	Pass
2**	2839.000	33.96	-12.53	54.0	20.04	AV	265.00	400	Vertical	Pass
3	4307.750	47.34	-6.31	74.0	26.66	Peak	170.00	100	Vertical	Pass
3**	4307.750	38.65	-6.31	54.0	15.35	AV	170.00	100	Vertical	Pass
4	5739.250	105.93	-5.34	--	--	Peak	306.00	100	Vertical	N/A
4**	5739.250	99.14	-5.34	--	--	AV	306.00	100	Vertical	N/A
5	7487.250	54.23	-0.36	74.0	19.77	Peak	14.00	100	Vertical	Pass
5**	7487.250	45.43	-0.36	54.0	8.57	AV	14.00	100	Vertical	Pass
6	12425.813	52.58	0.61	74.0	21.42	Peak	255.00	200	Vertical	Pass
6**	12425.813	43.71	0.61	54.0	10.29	AV	255.00	200	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	1570.600	42.09	-19.94	74.0	31.91	Peak	0.00	200	Horizontal	Pass
1**	1570.600	35.92	-19.94	54.0	18.08	AV	0.00	200	Horizontal	Pass
2	2702.600	44.14	-12.68	74.0	29.86	Peak	15.00	400	Horizontal	Pass
2**	2702.600	34.09	-12.68	54.0	19.91	AV	15.00	400	Horizontal	Pass
3	4348.000	47.35	-6.51	74.0	26.65	Peak	285.00	100	Horizontal	Pass
3**	4348.000	38.34	-6.51	54.0	15.66	AV	285.00	100	Horizontal	Pass
4	5778.250	100.52	-4.65	--	--	Peak	129.00	100	Horizontal	N/A
4**	5778.250	93.20	-4.65	--	--	AV	129.00	100	Horizontal	N/A
5	7488.250	54.52	-0.34	74.0	19.48	Peak	347.00	100	Horizontal	Pass
5**	7488.250	45.41	-0.34	54.0	8.59	AV	347.00	100	Horizontal	Pass
6	12272.625	52.47	0.50	74.0	21.53	Peak	233.00	400	Horizontal	Pass
6**	12272.625	43.07	0.50	54.0	10.93	AV	233.00	400	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	1570.500	45.17	-19.94	74.0	28.83	Peak	285.00	300	Vertical	Pass
1**	1570.500	37.58	-19.94	54.0	16.42	AV	285.00	300	Vertical	Pass
2	2880.000	44.18	-12.29	74.0	29.82	Peak	89.00	300	Vertical	Pass
2**	2880.000	34.50	-12.29	54.0	19.50	AV	89.00	300	Vertical	Pass
3	4337.250	47.70	-6.09	74.0	26.30	Peak	15.00	100	Vertical	Pass
3**	4337.250	38.22	-6.09	54.0	15.78	AV	15.00	100	Vertical	Pass
4	5779.500	105.77	-4.61	--	--	Peak	303.00	200	Vertical	N/A
4**	5779.500	98.83	-4.61	--	--	AV	303.00	200	Vertical	N/A
5	7491.500	54.58	-0.36	74.0	19.42	Peak	260.00	150	Vertical	Pass
5**	7491.500	45.33	-0.36	54.0	8.67	AV	260.00	150	Vertical	Pass
6	12337.937	52.65	0.72	74.0	21.35	Peak	91.00	400	Vertical	Pass
6**	12337.937	43.06	0.72	54.0	10.94	AV	91.00	400	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	1570.500	42.04	-19.94	74.0	31.96	Peak	12.00	300	Horizontal	Pass
1**	1570.500	37.44	-19.94	54.0	16.56	AV	12.00	300	Horizontal	Pass
2	2827.400	43.44	-12.60	74.0	30.56	Peak	302.00	100	Horizontal	Pass
2**	2827.400	33.62	-12.60	54.0	20.38	AV	302.00	100	Horizontal	Pass
3	4306.250	47.38	-6.38	74.0	26.62	Peak	284.00	150	Horizontal	Pass
3**	4306.250	38.72	-6.38	54.0	15.28	AV	284.00	150	Horizontal	Pass
4	5829.250	101.06	-4.71	--	--	Peak	136.00	400	Horizontal	N/A
4**	5829.250	92.70	-4.71	--	--	AV	136.00	400	Horizontal	N/A
5	7592.000	54.48	-0.66	74.0	19.52	Peak	136.00	150	Horizontal	Pass
5**	7592.000	45.42	-0.66	54.0	8.58	AV	136.00	150	Horizontal	Pass
6	12250.063	52.85	0.36	74.0	21.15	Peak	329.00	100	Horizontal	Pass
6**	12250.063	42.41	0.36	54.0	11.59	AV	329.00	100	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	1570.400	44.41	-19.94	74.0	29.59	Peak	287.00	100	Vertical	Pass
1**	1570.400	38.94	-19.94	54.0	15.06	AV	287.00	100	Vertical	Pass
2	2858.200	44.34	-12.34	74.0	29.66	Peak	254.00	300	Vertical	Pass
2**	2858.200	34.36	-12.34	54.0	19.64	AV	254.00	300	Vertical	Pass
3	4292.500	46.83	-6.75	74.0	27.17	Peak	303.00	100	Vertical	Pass
3**	4292.500	37.79	-6.75	54.0	16.21	AV	303.00	100	Vertical	Pass
4	5820.500	105.59	-4.73	--	--	Peak	303.00	300	Vertical	N/A
4**	5820.500	97.90	-4.73	--	--	AV	303.00	300	Vertical	N/A
5	7490.000	54.26	-0.32	74.0	19.74	Peak	103.00	150	Vertical	Pass
5**	7490.000	45.21	-0.32	54.0	8.79	AV	103.00	150	Vertical	Pass
6	12588.975	52.38	1.25	74.0	21.62	Peak	360.00	200	Vertical	Pass
6**	12588.975	43.25	1.25	54.0	10.75	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	1570.500	41.93	-19.94	74.0	32.07	Peak	9.00	300	Horizontal	Pass
1**	1570.500	35.02	-19.94	54.0	18.98	AV	9.00	300	Horizontal	Pass
2	2889.200	44.00	-12.15	74.0	30.00	Peak	61.00	400	Horizontal	Pass
2**	2889.200	34.42	-12.15	54.0	19.58	AV	61.00	400	Horizontal	Pass
3	4340.250	47.17	-6.27	74.0	26.83	Peak	286.00	150	Horizontal	Pass
3**	4340.250	38.91	-6.27	54.0	15.09	AV	286.00	150	Horizontal	Pass
4	5750.500	101.39	-5.24	--	--	Peak	129.00	100	Horizontal	N/A
4**	5750.500	92.94	-5.24	--	--	AV	129.00	100	Horizontal	N/A
5	7613.250	54.41	-1.14	74.0	19.59	Peak	207.00	100	Horizontal	Pass
5**	7613.250	44.64	-1.14	54.0	9.36	AV	207.00	100	Horizontal	Pass
6	12575.200	52.56	1.38	74.0	21.44	Peak	228.00	100	Horizontal	Pass
6**	12575.200	43.71	1.38	54.0	10.29	AV	228.00	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	1570.700	44.03	-19.94	74.0	29.97	Peak	266.00	100	Vertical	Pass
1**	1570.700	37.34	-19.94	54.0	16.66	AV	266.00	100	Vertical	Pass
2	2859.600	44.23	-12.36	74.0	29.77	Peak	229.00	300	Vertical	Pass
2**	2859.600	34.06	-12.36	54.0	19.94	AV	229.00	300	Vertical	Pass
3	4276.500	47.68	-7.07	74.0	26.32	Peak	227.00	150	Vertical	Pass
3**	4276.500	37.26	-7.07	54.0	16.74	AV	227.00	150	Vertical	Pass
4	5739.000	105.05	-5.35	--	--	Peak	0.00	400	Vertical	N/A
4**	5739.000	97.93	-5.35	--	--	AV	0.00	400	Vertical	N/A
5	7527.000	54.43	-0.86	74.0	19.57	Peak	315.00	150	Vertical	Pass
5**	7527.000	44.80	-0.86	54.0	9.20	AV	315.00	150	Vertical	Pass
6	12582.325	52.57	1.31	74.0	21.43	Peak	356.00	400	Vertical	Pass
6**	12582.325	43.65	1.31	54.0	10.35	AV	356.00	400	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	1570.500	41.69	-19.94	74.0	32.31	Peak	360.00	400	Horizontal	Pass
1**	1570.500	34.71	-19.94	54.0	19.29	AV	360.00	400	Horizontal	Pass
2	2866.600	44.10	-12.32	74.0	29.90	Peak	156.00	200	Horizontal	Pass
2**	2866.600	34.41	-12.32	54.0	19.59	AV	156.00	200	Horizontal	Pass
3	4351.250	47.38	-6.61	74.0	26.62	Peak	5.00	200	Horizontal	Pass
3**	4351.250	38.12	-6.61	54.0	15.88	AV	5.00	200	Horizontal	Pass
4	5790.500	99.97	-4.73	--	--	Peak	109.00	400	Horizontal	N/A
4**	5790.500	93.26	-4.73	--	--	AV	109.00	400	Horizontal	N/A
5	7495.000	54.46	-0.41	74.0	19.54	Peak	153.00	200	Horizontal	Pass
5**	7495.000	45.51	-0.41	54.0	8.49	AV	153.00	200	Horizontal	Pass
6	12574.250	52.57	1.39	74.0	21.43	Peak	151.00	400	Horizontal	Pass
6**	12574.250	43.65	1.39	54.0	10.35	AV	151.00	400	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	1570.800	43.37	-19.94	74.0	30.63	Peak	280.00	400	Vertical	Pass
1**	1570.800	37.15	-19.94	54.0	16.85	AV	280.00	400	Vertical	Pass
2	2878.400	43.95	-12.36	74.0	30.05	Peak	290.00	400	Vertical	Pass
2**	2878.400	35.32	-12.36	54.0	18.68	AV	290.00	400	Vertical	Pass
3	4324.500	47.85	-5.93	74.0	26.15	Peak	343.00	200	Vertical	Pass
3**	4324.500	39.20	-5.93	54.0	14.80	AV	343.00	200	Vertical	Pass
4	5782.250	105.94	-4.71	--	--	Peak	305.00	400	Vertical	N/A
4**	5782.250	98.26	-4.71	--	--	AV	305.00	400	Vertical	N/A
5	7493.500	53.98	-0.42	74.0	20.02	Peak	117.00	150	Vertical	Pass
5**	7493.500	45.68	-0.42	54.0	8.32	AV	117.00	150	Vertical	Pass
6	12578.525	52.77	1.35	74.0	21.23	Peak	320.00	100	Vertical	Pass
6**	12578.525	44.64	1.35	54.0	9.36	AV	320.00	100	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	1570.300	43.13	-19.94	74.0	30.87	Peak	360.00	200	Horizontal	Pass
1**	1570.300	37.37	-19.94	54.0	16.63	AV	360.00	200	Horizontal	Pass
2	2724.900	44.40	-11.70	74.0	29.60	Peak	297.00	200	Horizontal	Pass
2**	2724.900	34.75	-11.70	54.0	19.25	AV	297.00	200	Horizontal	Pass
3	4292.500	47.00	-6.75	74.0	27.00	Peak	95.00	200	Horizontal	Pass
3**	4292.500	37.87	-6.75	54.0	16.13	AV	95.00	200	Horizontal	Pass
4	5826.750	100.77	-4.79	--	--	Peak	130.00	400	Horizontal	N/A
4**	5826.750	92.60	-4.79	--	--	AV	130.00	400	Horizontal	N/A
5	7504.750	54.40	-1.02	74.0	19.60	Peak	112.00	150	Horizontal	Pass
5**	7504.750	45.04	-1.02	54.0	8.96	AV	112.00	150	Horizontal	Pass
6	12573.062	53.17	1.40	74.0	20.83	Peak	302.00	200	Horizontal	Pass
6**	12573.062	43.49	1.40	54.0	10.51	AV	302.00	200	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	1570.600	44.77	-19.94	74.0	29.23	Peak	283.00	200	Vertical	Pass
1**	1570.600	37.69	-19.94	54.0	16.31	AV	283.00	200	Vertical	Pass
2	2724.500	43.66	-11.72	74.0	30.34	Peak	10.00	300	Vertical	Pass
2**	2724.500	34.12	-11.72	54.0	19.88	AV	10.00	300	Vertical	Pass
3	4307.000	47.80	-6.33	74.0	26.20	Peak	294.00	200	Vertical	Pass
3**	4307.000	38.31	-6.33	54.0	15.69	AV	294.00	200	Vertical	Pass
4	5828.250	105.68	-4.74	--	--	Peak	303.00	300	Vertical	N/A
4**	5828.250	99.05	-4.74	--	--	AV	303.00	300	Vertical	N/A
5	7490.500	54.85	-0.32	74.0	19.15	Peak	130.00	150	Vertical	Pass
5**	7490.500	45.39	-0.32	54.0	8.61	AV	130.00	150	Vertical	Pass
6	12434.838	52.74	0.71	74.0	21.26	Peak	127.00	400	Vertical	Pass
6**	12434.838	44.00	0.71	54.0	10.00	AV	127.00	400	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	1570.500	41.78	-19.94	74.0	32.22	Peak	10.00	200	Horizontal	Pass
1**	1570.500	35.02	-19.94	54.0	18.98	AV	10.00	200	Horizontal	Pass
2	2856.100	44.58	-12.34	74.0	29.42	Peak	299.00	300	Horizontal	Pass
2**	2856.100	34.83	-12.34	54.0	19.17	AV	299.00	300	Horizontal	Pass
3	4361.500	47.27	-6.69	74.0	26.73	Peak	327.00	200	Horizontal	Pass
3**	4361.500	38.63	-6.69	54.0	15.37	AV	327.00	200	Horizontal	Pass
4	5752.750	98.15	-5.27	--	--	Peak	129.00	300	Horizontal	N/A
4**	5752.750	91.04	-5.27	--	--	AV	129.00	300	Horizontal	N/A
5	7537.500	54.31	-0.25	74.0	19.69	Peak	259.00	200	Horizontal	Pass
5**	7537.500	44.81	-0.25	54.0	9.19	AV	259.00	200	Horizontal	Pass
6	12294.000	52.57	0.62	74.0	21.43	Peak	132.00	100	Horizontal	Pass
6**	12294.000	44.54	0.62	54.0	9.46	AV	132.00	100	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	1570.500	44.59	-19.94	74.0	29.41	Peak	268.00	200	Vertical	Pass
1**	1570.500	37.89	-19.94	54.0	16.11	AV	268.00	200	Vertical	Pass
2	2798.100	43.89	-12.73	74.0	30.11	Peak	325.00	100	Vertical	Pass
2**	2798.100	33.89	-12.73	54.0	20.11	AV	325.00	100	Vertical	Pass
3	4321.750	47.41	-5.93	74.0	26.59	Peak	0.00	150	Vertical	Pass
3**	4321.750	38.63	-5.93	54.0	15.37	AV	0.00	150	Vertical	Pass
4	5751.500	102.16	-5.26	--	--	Peak	306.00	200	Vertical	N/A
4**	5751.500	93.28	-5.26	--	--	AV	306.00	200	Vertical	N/A
5	7672.750	55.29	-1.45	74.0	18.71	Peak	286.00	150	Vertical	Pass
5**	7672.750	44.02	-1.45	54.0	9.98	AV	286.00	150	Vertical	Pass
6	12420.588	52.95	0.55	74.0	21.05	Peak	73.00	200	Vertical	Pass
6**	12420.588	42.90	0.55	54.0	11.10	AV	73.00	200	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	1570.300	42.53	-19.94	74.0	31.47	Peak	3.00	300	Horizontal	Pass
1**	1570.300	34.29	-19.94	54.0	19.71	AV	3.00	300	Horizontal	Pass
2	2728.000	43.92	-11.50	74.0	30.08	Peak	188.00	100	Horizontal	Pass
2**	2728.000	34.26	-11.50	54.0	19.74	AV	188.00	100	Horizontal	Pass
3	4300.250	47.67	-6.58	74.0	26.33	Peak	159.00	100	Horizontal	Pass
3**	4300.250	37.88	-6.58	54.0	16.12	AV	159.00	100	Horizontal	Pass
4	5796.500	97.41	-4.66	--	--	Peak	46.00	400	Horizontal	N/A
4**	5796.500	90.19	-4.66	--	--	AV	46.00	400	Horizontal	N/A
5	7607.500	54.34	-0.85	74.0	19.66	Peak	106.00	100	Horizontal	Pass
5**	7607.500	44.68	-0.85	54.0	9.32	AV	106.00	100	Horizontal	Pass
6	12583.513	52.93	1.30	74.0	21.07	Peak	8.00	300	Horizontal	Pass
6**	12583.513	43.60	1.30	54.0	10.40	AV	8.00	300	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	1570.400	44.66	-19.94	74.0	29.34	Peak	281.00	400	Vertical	Pass
1**	1570.400	38.12	-19.94	54.0	15.88	AV	281.00	400	Vertical	Pass
2	2875.700	43.86	-12.36	74.0	30.14	Peak	276.00	200	Vertical	Pass
2**	2875.700	34.01	-12.36	54.0	19.99	AV	276.00	200	Vertical	Pass
3	4367.000	47.68	-6.81	74.0	26.32	Peak	252.00	150	Vertical	Pass
3**	4367.000	38.29	-6.81	54.0	15.71	AV	252.00	150	Vertical	Pass
4	5780.000	102.91	-4.59	--	--	Peak	305.00	100	Vertical	N/A
4**	5780.000	95.59	-4.59	--	--	AV	305.00	100	Vertical	N/A
5	7551.750	54.29	-1.29	74.0	19.71	Peak	270.00	150	Vertical	Pass
5**	7551.750	44.53	-1.29	54.0	9.47	AV	270.00	150	Vertical	Pass
6	12298.988	52.80	0.65	74.0	21.20	Peak	327.00	300	Vertical	Pass
6**	12298.988	43.45	0.65	54.0	10.55	AV	327.00	300	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	1570.200	42.01	-19.94	74.0	31.99	Peak	360.00	100	Horizontal	Pass
1**	1570.200	35.40	-19.94	54.0	18.60	AV	360.00	100	Horizontal	Pass
2	2795.200	43.64	-12.60	74.0	30.36	Peak	165.00	200	Horizontal	Pass
2**	2795.200	34.09	-12.60	54.0	19.91	AV	165.00	200	Horizontal	Pass
3	4356.750	47.76	-6.63	74.0	26.24	Peak	251.00	150	Horizontal	Pass
3**	4356.750	39.06	-6.63	54.0	14.94	AV	251.00	150	Horizontal	Pass
4	5751.000	100.65	-5.25	--	--	Peak	128.00	100	Horizontal	N/A
4**	5751.000	93.18	-5.25	--	--	AV	128.00	100	Horizontal	N/A
5	7500.500	54.68	-0.77	74.0	19.32	Peak	147.00	150	Horizontal	Pass
5**	7500.500	44.96	-0.77	54.0	9.04	AV	147.00	150	Horizontal	Pass
6	12545.750	52.75	1.52	74.0	21.25	Peak	54.00	400	Horizontal	Pass
6**	12545.750	43.69	1.52	54.0	10.31	AV	54.00	400	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	1570.800	44.35	-19.94	74.0	29.65	Peak	275.00	400	Vertical	Pass
1**	1570.800	42.14	-19.94	54.0	11.86	AV	275.00	400	Vertical	Pass
2	2868.000	43.68	-12.40	74.0	30.32	Peak	12.00	300	Vertical	Pass
2**	2868.000	34.28	-12.40	54.0	19.72	AV	12.00	300	Vertical	Pass
3	4340.750	47.60	-6.29	74.0	26.40	Peak	0.00	200	Vertical	Pass
3**	4340.750	38.45	-6.29	54.0	15.55	AV	0.00	200	Vertical	Pass
4	5737.750	105.27	-5.39	--	--	Peak	311.00	400	Vertical	N/A
4**	5737.750	97.42	-5.39	--	--	AV	311.00	400	Vertical	N/A
5	7490.000	54.76	-0.32	74.0	19.24	Peak	284.00	200	Vertical	Pass
5**	7490.000	45.52	-0.32	54.0	8.48	AV	284.00	200	Vertical	Pass
6	12561.662	53.41	1.50	74.0	20.59	Peak	159.00	300	Vertical	Pass
6**	12561.662	42.62	1.50	54.0	11.38	AV	159.00	300	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	1570.300	41.60	-19.94	74.0	32.40	Peak	9.00	100	Horizontal	Pass
1**	1570.300	34.36	-19.94	54.0	19.64	AV	9.00	100	Horizontal	Pass
2	2856.000	43.80	-12.34	74.0	30.20	Peak	14.00	100	Horizontal	Pass
2**	2856.000	34.57	-12.34	54.0	19.43	AV	14.00	100	Horizontal	Pass
3	4371.500	47.85	-7.03	74.0	26.15	Peak	229.00	200	Horizontal	Pass
3**	4371.500	37.39	-7.03	54.0	16.61	AV	229.00	200	Horizontal	Pass
4	5791.750	100.93	-4.73	--	--	Peak	133.00	200	Horizontal	N/A
4**	5791.750	92.61	-4.73	--	--	AV	133.00	200	Horizontal	N/A
5	7494.750	54.48	-0.40	74.0	19.52	Peak	0.00	100	Horizontal	Pass
5**	7494.750	46.09	-0.40	54.0	7.91	AV	0.00	100	Horizontal	Pass
6	12578.050	52.50	1.35	74.0	21.50	Peak	151.00	300	Horizontal	Pass
6**	12578.050	43.98	1.35	54.0	10.02	AV	151.00	300	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	1570.700	44.69	-19.94	74.0	29.31	Peak	277.00	400	Vertical	Pass
1**	1570.700	37.01	-19.94	54.0	16.99	AV	277.00	400	Vertical	Pass
2	2881.900	43.49	-12.24	74.0	30.51	Peak	282.00	300	Vertical	Pass
2**	2881.900	34.93	-12.24	54.0	19.07	AV	282.00	300	Vertical	Pass
3	4329.500	47.24	-5.96	74.0	26.76	Peak	198.00	100	Vertical	Pass
3**	4329.500	38.55	-5.96	54.0	15.45	AV	198.00	100	Vertical	Pass
4	5778.500	105.26	-4.64	--	--	Peak	0.00	400	Vertical	N/A
4**	5778.500	97.66	-4.64	--	--	AV	0.00	400	Vertical	N/A
5	7481.750	54.13	-0.77	74.0	19.87	Peak	360.00	150	Vertical	Pass
5**	7481.750	45.38	-0.77	54.0	8.62	AV	360.00	150	Vertical	Pass
6	12551.213	53.02	1.60	74.0	20.98	Peak	284.00	300	Vertical	Pass
6**	12551.213	43.40	1.60	54.0	10.60	AV	284.00	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	1570.300	42.14	-19.94	74.0	31.86	Peak	0.00	300	Horizontal	Pass
1**	1570.300	33.64	-19.94	54.0	20.36	AV	0.00	300	Horizontal	Pass
2	2889.100	44.14	-12.14	74.0	29.86	Peak	160.00	300	Horizontal	Pass
2**	2889.100	34.80	-12.14	54.0	19.20	AV	160.00	300	Horizontal	Pass
3	4332.500	47.18	-6.08	74.0	26.82	Peak	278.00	150	Horizontal	Pass
3**	4332.500	39.21	-6.08	54.0	14.79	AV	278.00	150	Horizontal	Pass
4	5829.750	100.58	-4.71	--	--	Peak	130.00	300	Horizontal	N/A
4**	5829.750	92.91	-4.71	--	--	AV	130.00	300	Horizontal	N/A
5	7563.250	54.18	-1.66	74.0	19.82	Peak	139.00	100	Horizontal	Pass
5**	7563.250	44.30	-1.66	54.0	9.70	AV	139.00	100	Horizontal	Pass
6	12569.975	53.08	1.43	74.0	20.92	Peak	360.00	150	Horizontal	Pass
6**	12569.975	44.25	1.43	54.0	9.75	AV	360.00	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	1570.500	44.75	-19.94	74.0	29.25	Peak	281.00	200	Vertical	Pass
1**	1570.500	37.20	-19.94	54.0	16.80	AV	281.00	200	Vertical	Pass
2	2872.700	44.42	-12.44	74.0	29.58	Peak	197.00	300	Vertical	Pass
2**	2872.700	35.02	-12.44	54.0	18.98	AV	197.00	300	Vertical	Pass
3	4349.000	47.34	-6.56	74.0	26.66	Peak	30.00	100	Vertical	Pass
3**	4349.000	37.86	-6.56	54.0	16.14	AV	30.00	100	Vertical	Pass
4	5819.500	105.14	-4.75	--	--	Peak	305.00	300	Vertical	N/A
4**	5819.500	97.98	-4.75	--	--	AV	305.00	300	Vertical	N/A
5	7601.500	54.17	-0.44	74.0	19.83	Peak	127.00	150	Vertical	Pass
5**	7601.500	45.55	-0.44	54.0	8.45	AV	127.00	150	Vertical	Pass
6	12584.937	53.23	1.29	74.0	20.77	Peak	360.00	150	Vertical	Pass
6**	12584.937	44.86	1.29	54.0	9.14	AV	360.00	150	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	1570.200	43.31	-19.94	74.0	30.69	Peak	9.00	200	Horizontal	Pass
1**	1570.200	34.92	-19.94	54.0	19.08	AV	9.00	200	Horizontal	Pass
2	2858.300	43.86	-12.34	74.0	30.14	Peak	198.00	300	Horizontal	Pass
2**	2858.300	34.42	-12.34	54.0	19.58	AV	198.00	300	Horizontal	Pass
3	4351.250	48.32	-6.61	74.0	25.68	Peak	0.00	150	Horizontal	Pass
3**	4351.250	39.00	-6.61	54.0	15.00	AV	0.00	150	Horizontal	Pass
4	5751.750	98.54	-5.26	--	--	Peak	131.00	400	Horizontal	N/A
4**	5751.750	90.99	-5.26	--	--	AV	131.00	400	Horizontal	N/A
5	7491.500	54.24	-0.36	74.0	19.76	Peak	3.00	150	Horizontal	Pass
5**	7491.500	45.48	-0.36	54.0	8.52	AV	3.00	150	Horizontal	Pass
6	12271.674	52.55	0.49	74.0	21.45	Peak	360.00	100	Horizontal	Pass
6**	12271.674	42.95	0.49	54.0	11.05	AV	360.00	100	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	1570.600	45.00	-19.94	74.0	29.00	Peak	278.00	300	Vertical	Pass
1**	1570.600	41.83	-19.94	54.0	12.17	AV	278.00	300	Vertical	Pass
2	2700.700	43.93	-12.56	74.0	30.07	Peak	288.00	300	Vertical	Pass
2**	2700.700	34.31	-12.56	54.0	19.69	AV	288.00	300	Vertical	Pass
3	4351.500	47.47	-6.62	74.0	26.53	Peak	247.00	200	Vertical	Pass
3**	4351.500	38.21	-6.62	54.0	15.79	AV	247.00	200	Vertical	Pass
4	5740.000	102.41	-5.33	--	--	Peak	0.00	100	Vertical	N/A
4**	5740.000	94.41	-5.33	--	--	AV	0.00	100	Vertical	N/A
5	7495.750	54.67	-0.47	74.0	19.33	Peak	161.00	150	Vertical	Pass
5**	7495.750	45.44	-0.47	54.0	8.56	AV	161.00	150	Vertical	Pass
6	12299.938	53.56	0.65	74.0	20.44	Peak	90.00	400	Vertical	Pass
6**	12299.938	43.60	0.65	54.0	10.40	AV	90.00	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	1570.700	41.53	-19.94	74.0	32.47	Peak	0.00	200	Horizontal	Pass
1**	1570.700	36.59	-19.94	54.0	17.41	AV	0.00	200	Horizontal	Pass
2	2728.400	43.64	-11.47	74.0	30.36	Peak	301.00	400	Horizontal	Pass
2**	2728.400	34.19	-11.47	54.0	19.81	AV	301.00	400	Horizontal	Pass
3	4311.750	48.32	-6.14	74.0	25.68	Peak	277.00	100	Horizontal	Pass
3**	4311.750	37.88	-6.14	54.0	16.12	AV	277.00	100	Horizontal	Pass
4	5796.500	97.42	-4.66	--	--	Peak	59.00	400	Horizontal	N/A
4**	5796.500	90.30	-4.66	--	--	AV	59.00	400	Horizontal	N/A
5	7516.250	54.14	-1.24	74.0	19.86	Peak	330.00	100	Horizontal	Pass
5**	7516.250	44.48	-1.24	54.0	9.52	AV	330.00	100	Horizontal	Pass
6	12582.325	52.61	1.31	74.0	21.39	Peak	357.00	200	Horizontal	Pass
6**	12582.325	44.00	1.31	54.0	10.00	AV	357.00	200	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	1570.600	44.26	-19.94	74.0	29.74	Peak	276.00	100	Vertical	Pass
1**	1570.600	36.86	-19.94	54.0	17.14	AV	276.00	100	Vertical	Pass
2	2820.100	43.50	-12.82	74.0	30.50	Peak	292.00	400	Vertical	Pass
2**	2820.100	34.41	-12.82	54.0	19.59	AV	292.00	400	Vertical	Pass
3	4349.250	47.66	-6.57	74.0	26.34	Peak	292.00	150	Vertical	Pass
3**	4349.250	38.20	-6.57	54.0	15.80	AV	292.00	150	Vertical	Pass
4	5793.750	102.27	-4.72	--	--	Peak	301.00	300	Vertical	N/A
4**	5793.750	94.96	-4.72	--	--	AV	301.00	300	Vertical	N/A
5	7534.250	54.06	-0.46	74.0	19.94	Peak	196.00	100	Vertical	Pass
5**	7534.250	44.65	-0.46	54.0	9.35	AV	196.00	100	Vertical	Pass
6	12616.526	52.25	1.01	74.0	21.75	Peak	191.00	400	Vertical	Pass
6**	12616.526	43.35	1.01	54.0	10.65	AV	191.00	400	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	1570.500	42.34	-19.94	74.0	31.66	Peak	4.00	200	Horizontal	Pass
1**	1570.500	35.37	-19.94	54.0	18.63	AV	4.00	200	Horizontal	Pass
2	2740.500	43.69	-12.36	74.0	30.31	Peak	314.00	200	Horizontal	Pass
2**	2740.500	34.75	-12.36	54.0	19.25	AV	314.00	200	Horizontal	Pass
3	4325.250	47.35	-5.94	74.0	26.65	Peak	174.00	200	Horizontal	Pass
3**	4325.250	37.91	-5.94	54.0	16.09	AV	174.00	200	Horizontal	Pass
4	5766.250	95.65	-4.84	--	--	Peak	53.00	200	Horizontal	N/A
4**	5766.250	88.37	-4.84	--	--	AV	53.00	200	Horizontal	N/A
5	7500.750	54.48	-0.78	74.0	19.52	Peak	312.00	200	Horizontal	Pass
5**	7500.750	45.72	-0.78	54.0	8.28	AV	312.00	200	Horizontal	Pass
6	12604.888	52.47	1.11	74.0	21.53	Peak	334.00	100	Horizontal	Pass
6**	12604.888	43.58	1.11	54.0	10.42	AV	334.00	100	Horizontal	Pass

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

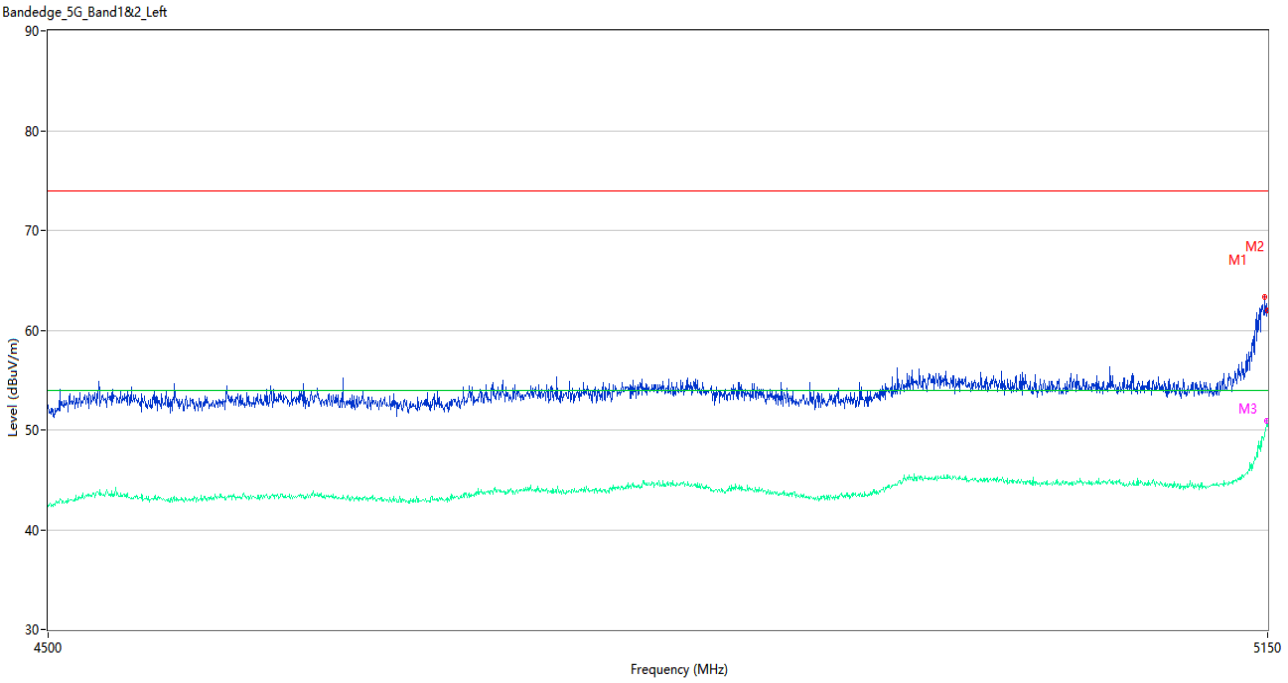
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1570.700	43.28	-19.94	74.0	30.72	Peak	260.00	300	Vertical	Pass
1**	1570.700	38.28	-19.94	54.0	15.72	AV	260.00	300	Vertical	Pass
2	2886.100	44.30	-12.20	74.0	29.70	Peak	319.00	100	Vertical	Pass
2**	2886.100	35.08	-12.20	54.0	18.92	AV	319.00	100	Vertical	Pass
3	4320.250	48.06	-5.98	74.0	25.94	Peak	129.00	100	Vertical	Pass
3**	4320.250	38.01	-5.98	54.0	15.99	AV	129.00	100	Vertical	Pass
4	5766.500	100.12	-4.83	--	--	Peak	0.00	300	Vertical	N/A
4**	5766.500	94.09	-4.83	--	--	AV	0.00	300	Vertical	N/A
5	7495.250	54.80	-0.43	74.0	19.20	Peak	112.00	200	Vertical	Pass
5**	7495.250	45.61	-0.43	54.0	8.39	AV	112.00	200	Vertical	Pass
6	12590.638	52.85	1.24	74.0	21.15	Peak	192.00	400	Vertical	Pass
6**	12590.638	44.17	1.24	54.0	9.83	AV	192.00	400	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

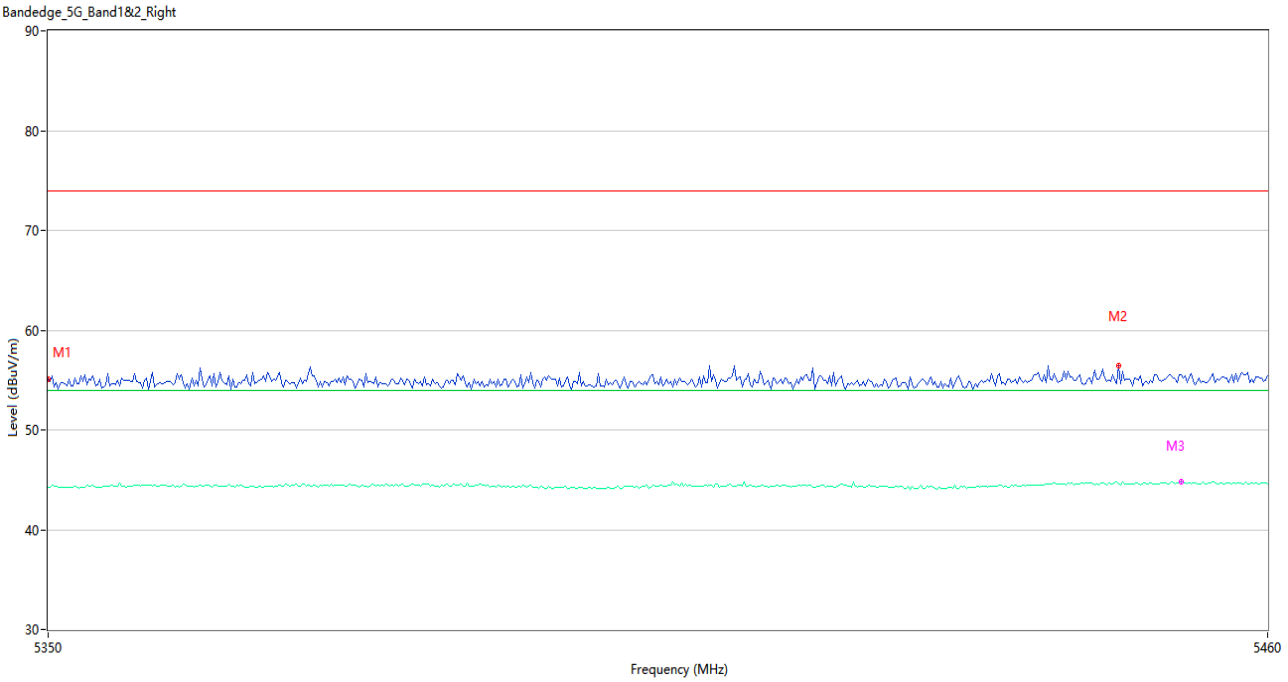
Test Data and Plots

U-NII-1 11a Low Channel



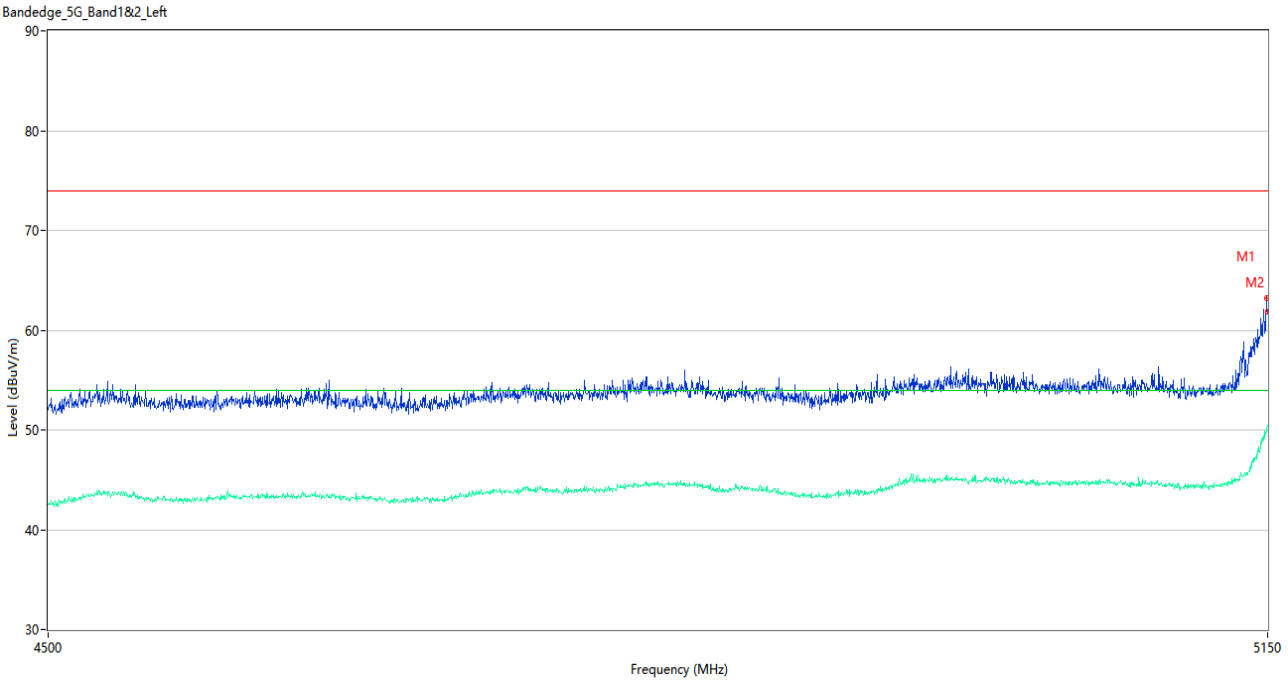
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.375	63.37	0.86	74.0	10.63	Peak	304.00	100	Vertical	Pass
1**	5148.375	49.54	0.86	54.0	4.46	AV	304.00	100	Vertical	Pass
2	5150.000	61.96	0.84	74.0	12.04	Peak	65.00	100	Vertical	Pass
2**	5150.000	50.35	0.84	54.0	3.65	AV	65.00	100	Vertical	Pass
3	5149.675	61.42	0.84	74.0	12.58	Peak	54.00	150	Vertical	Pass
3**	5149.675	50.94	0.84	54.0	3.06	AV	54.00	150	Vertical	Pass

U-NII-1 11a High Channel



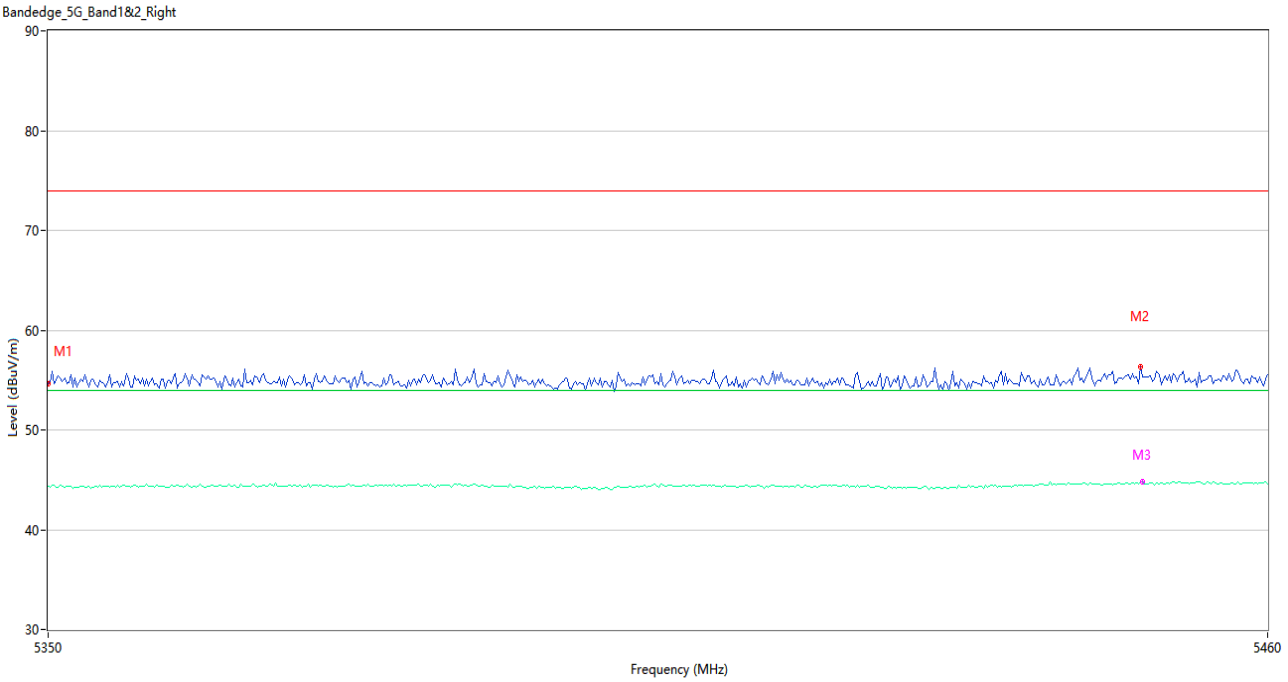
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.11	0.85	74.0	18.89	Peak	13.00	200	Vertical	Pass
1**	5350.000	44.23	0.85	54.0	9.77	AV	13.00	200	Vertical	Pass
2	5446.433	56.44	1.25	74.0	17.56	Peak	213.00	100	Vertical	Pass
2**	5446.433	44.60	1.25	54.0	9.40	AV	213.00	100	Vertical	Pass
3	5452.116	55.49	1.28	74.0	18.51	Peak	28.00	150	Vertical	Pass
3**	5452.116	44.86	1.28	54.0	9.14	AV	28.00	150	Vertical	Pass

U-NII-1 11n20 Low Channel



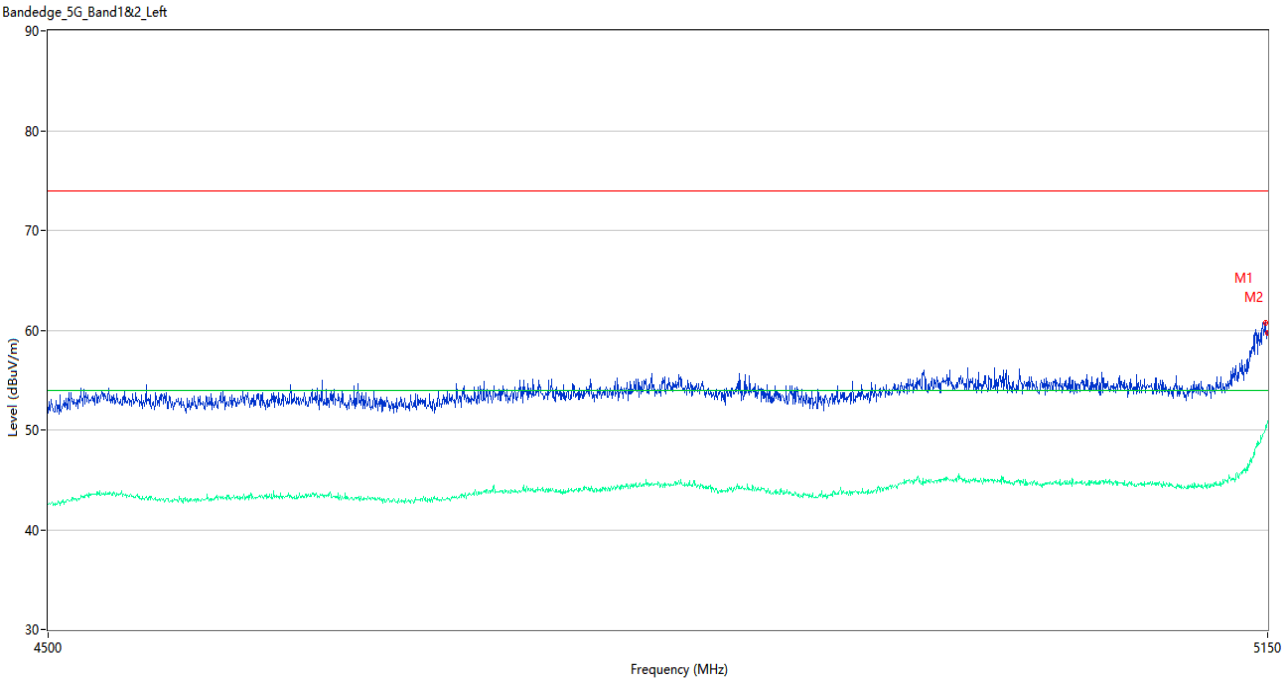
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.350	63.19	0.84	74.0	10.81	Peak	312.00	100	Vertical	Pass
1**	5149.350	49.74	0.84	54.0	4.26	AV	312.00	100	Vertical	Pass
2	5150.000	61.83	0.84	74.0	12.17	Peak	306.00	200	Vertical	Pass
2**	5150.000	50.44	0.84	54.0	3.56	AV	306.00	200	Vertical	Pass

U-NII-1 11n20 High Channel



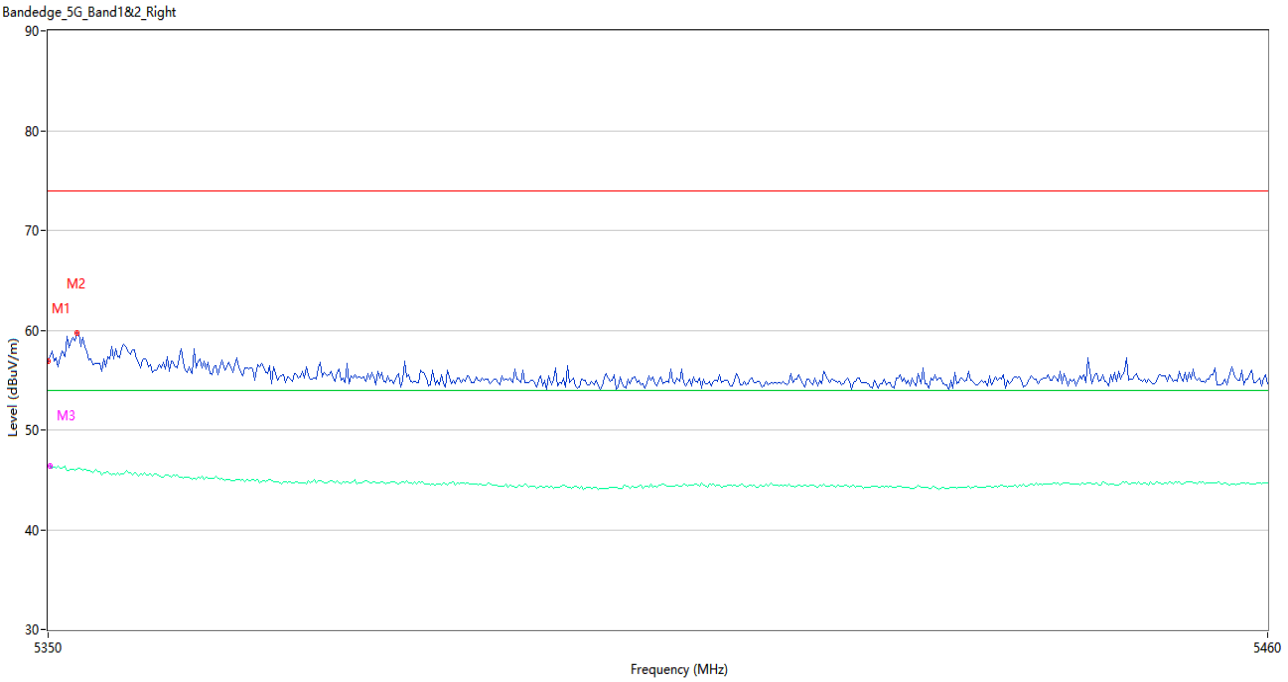
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.66	0.85	74.0	19.34	Peak	140.00	200	Vertical	Pass
1**	5350.000	44.31	0.85	54.0	9.69	AV	140.00	200	Vertical	Pass
2	5448.450	56.38	1.26	74.0	17.62	Peak	117.00	100	Vertical	Pass
2**	5448.450	44.67	1.26	54.0	9.33	AV	117.00	100	Vertical	Pass
3	5448.633	55.27	1.26	74.0	18.73	Peak	7.00	150	Vertical	Pass
3**	5448.633	44.82	1.26	54.0	9.18	AV	7.00	150	Vertical	Pass

U-NII-1 11n40 Low Channel



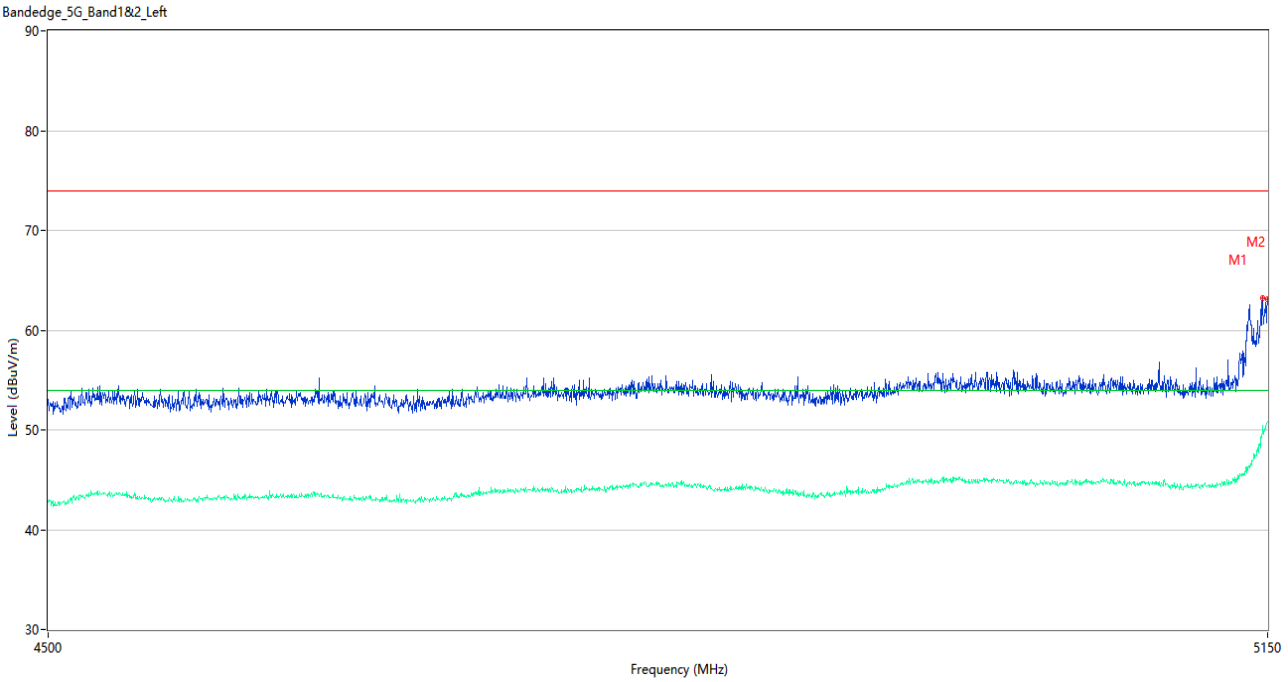
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.025	60.76	0.84	74.0	13.24	Peak	307.00	100	Vertical	Pass
1**	5149.025	50.40	0.84	54.0	3.60	AV	307.00	100	Vertical	Pass
2	5150.000	59.74	0.84	74.0	14.26	Peak	307.00	200	Vertical	Pass
2**	5150.000	50.95	0.84	54.0	3.05	AV	307.00	200	Vertical	Pass

U-NII-1 11n40 High Channel



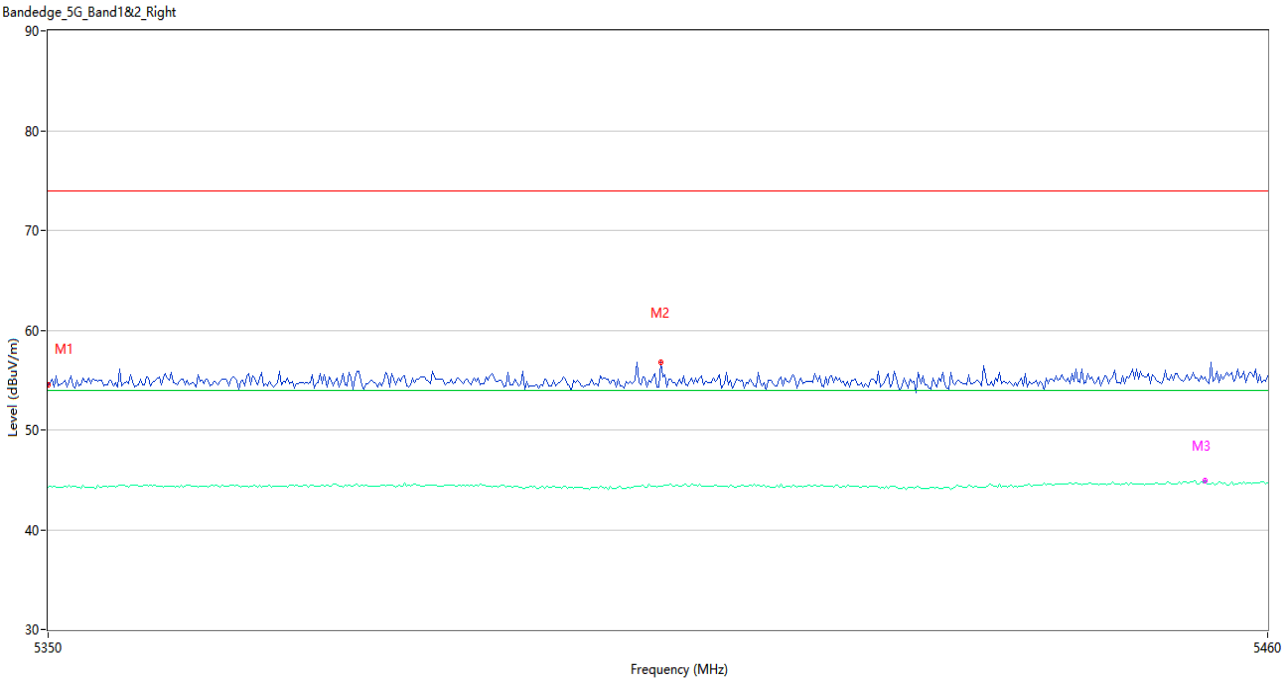
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.88	0.85	74.0	17.12	Peak	50.00	200	Vertical	Pass
1**	5350.000	46.27	0.85	54.0	7.73	AV	50.00	200	Vertical	Pass
2	5352.567	59.67	0.82	74.0	14.33	Peak	312.00	100	Vertical	Pass
2**	5352.567	46.00	0.82	54.0	8.00	AV	312.00	100	Vertical	Pass
3	5350.183	57.33	0.86	74.0	16.67	Peak	43.00	150	Vertical	Pass
3**	5350.183	46.43	0.86	54.0	7.57	AV	43.00	150	Vertical	Pass

U-NII-1 11ac20 Low Channel



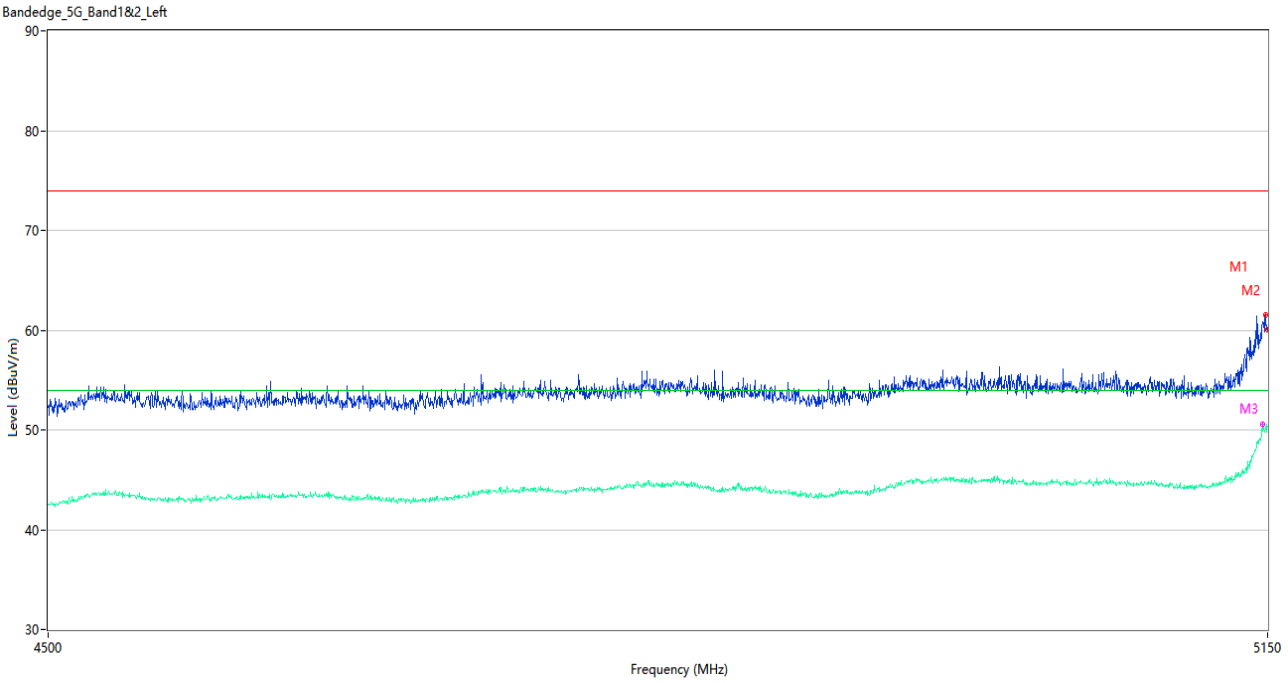
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.075	63.23	0.92	74.0	10.77	Peak	304.00	100	Vertical	Pass
1**	5147.075	49.90	0.92	54.0	4.10	AV	304.00	100	Vertical	Pass
2	5150.000	63.12	0.84	74.0	10.88	Peak	314.00	200	Vertical	Pass
2**	5150.000	50.76	0.84	54.0	3.24	AV	314.00	200	Vertical	Pass

U-NII-1 11ac20 High Channel



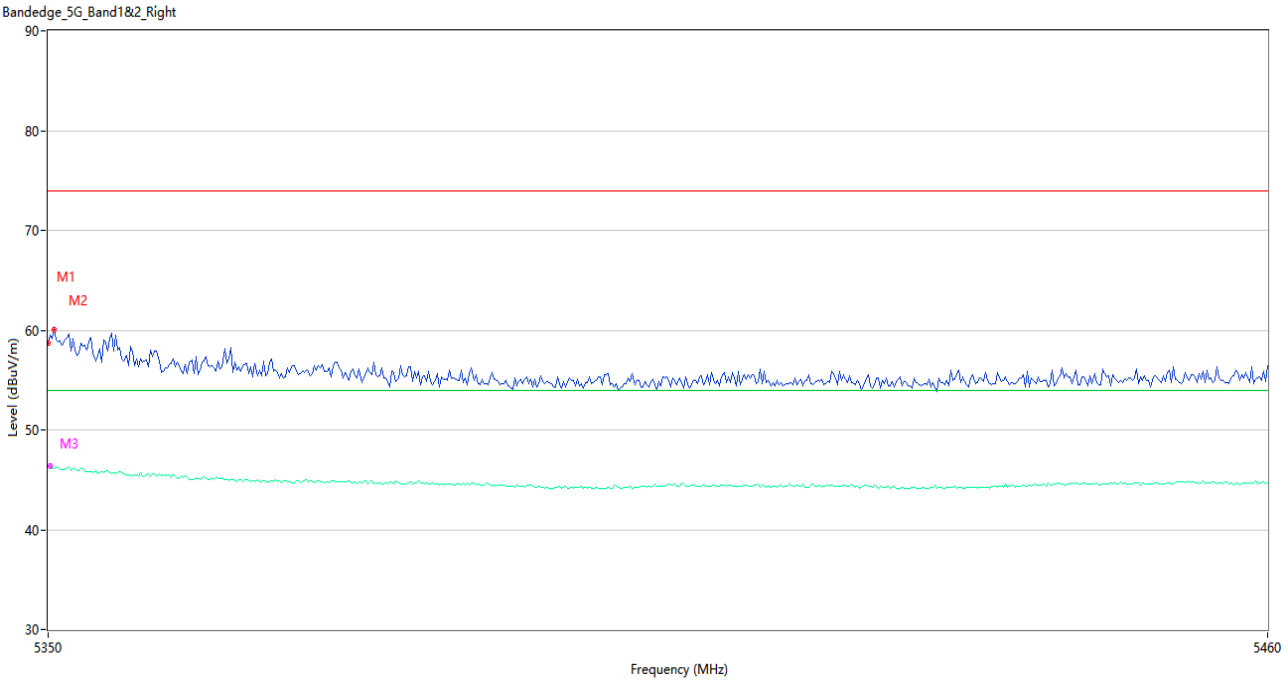
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.50	0.85	74.0	19.50	Peak	106.00	200	Vertical	Pass
1**	5350.000	44.23	0.85	54.0	9.77	AV	106.00	200	Vertical	Pass
2	5405.000	56.77	1.17	74.0	17.23	Peak	164.00	100	Vertical	Pass
2**	5405.000	44.36	1.17	54.0	9.64	AV	164.00	100	Vertical	Pass
3	5454.317	55.31	1.22	74.0	18.69	Peak	1.00	200	Vertical	Pass
3**	5454.317	44.93	1.22	54.0	9.07	AV	1.00	200	Vertical	Pass

U-NII-1 11ac40 Low Channel



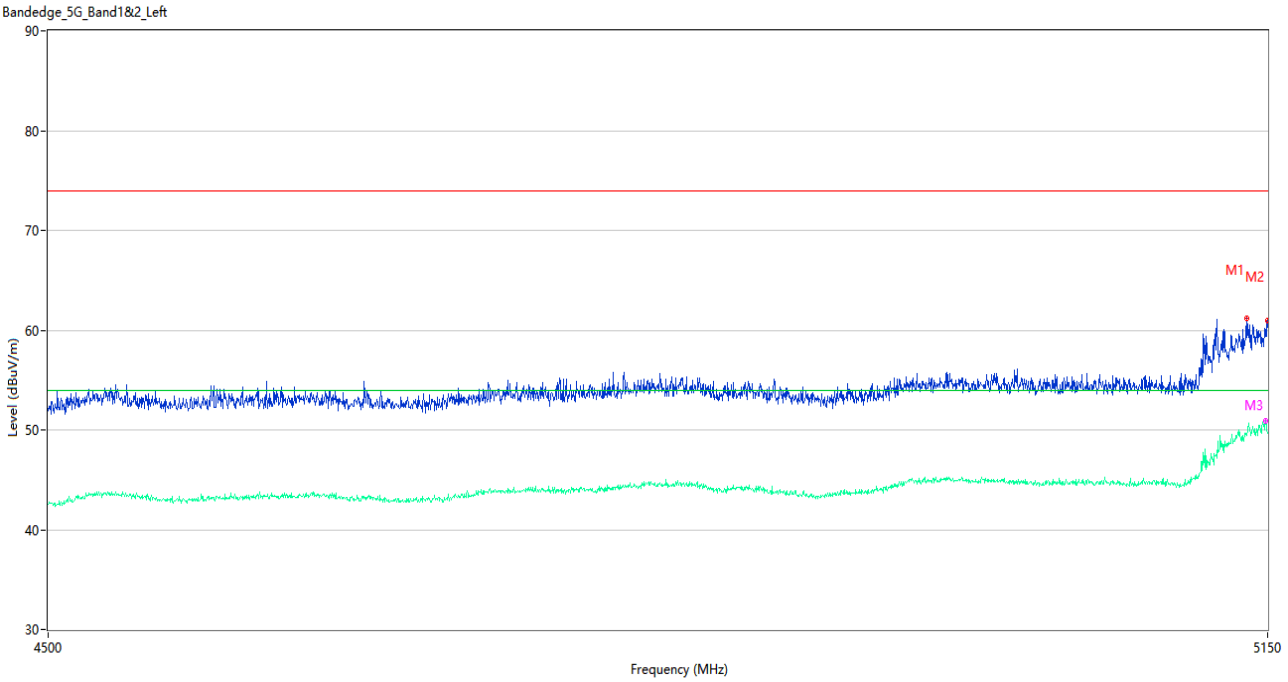
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.700	61.56	0.85	74.0	12.44	Peak	306.00	100	Vertical	Pass
1**	5148.700	50.28	0.85	54.0	3.72	AV	306.00	100	Vertical	Pass
2	5150.000	60.00	0.84	74.0	14.00	Peak	310.00	200	Vertical	Pass
2**	5150.000	50.36	0.84	54.0	3.64	AV	310.00	200	Vertical	Pass
3	5147.075	60.90	0.92	74.0	13.10	Peak	69.00	300	Vertical	Pass
3**	5147.075	50.58	0.92	54.0	3.42	AV	69.00	300	Vertical	Pass

U-NII-1 11ac40 High Channel



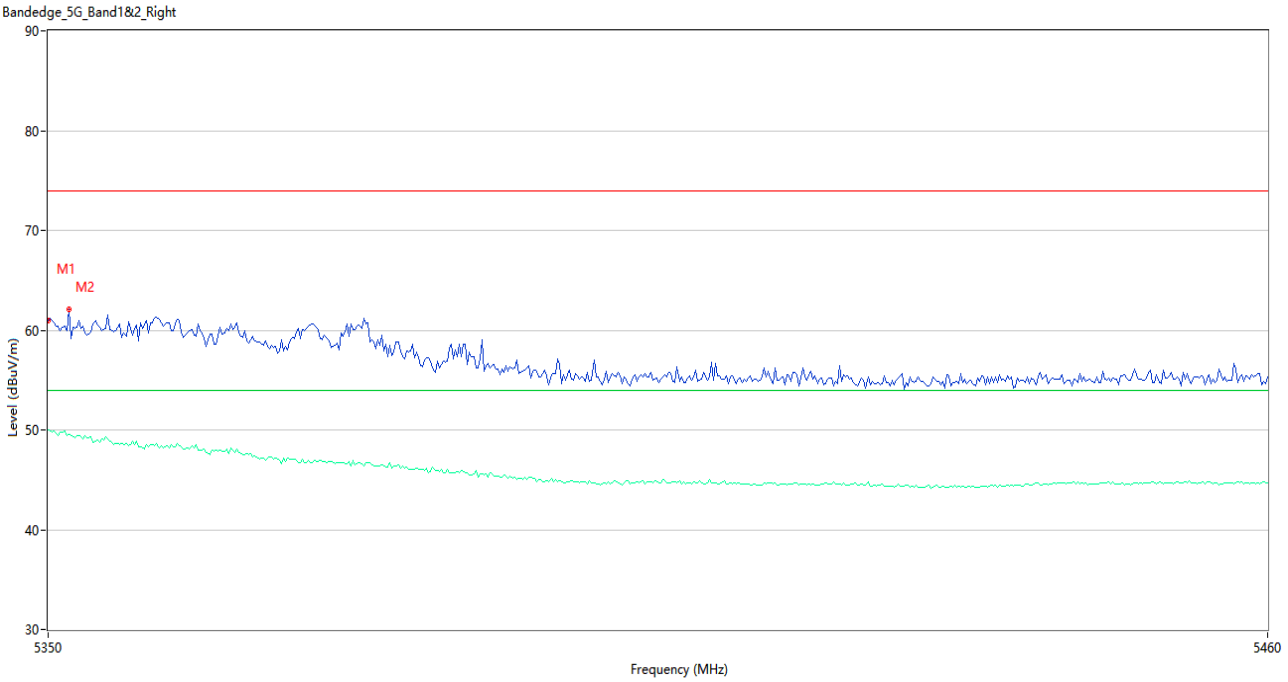
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	58.66	0.85	74.0	15.34	Peak	307.00	100	Vertical	Pass
1**	5350.000	46.40	0.85	54.0	7.60	AV	307.00	100	Vertical	Pass
2	5350.550	60.09	0.87	74.0	13.91	Peak	38.00	200	Vertical	Pass
2**	5350.550	46.16	0.87	54.0	7.84	AV	38.00	200	Vertical	Pass
3	5350.183	59.46	0.86	74.0	14.54	Peak	61.00	150	Vertical	Pass
3**	5350.183	46.42	0.86	54.0	7.58	AV	61.00	150	Vertical	Pass

U-NII-1 11ac80 Middle Channel



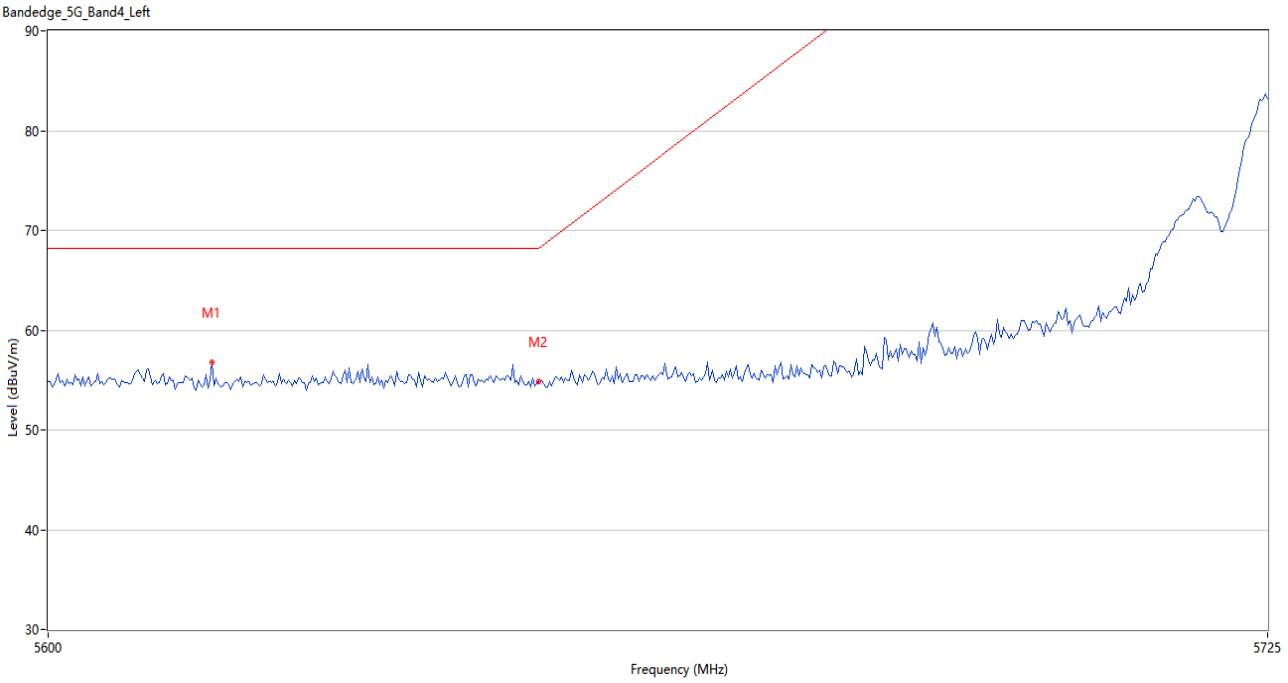
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5137.975	61.18	0.78	74.0	12.82	Peak	50.00	200	Vertical	Pass
1**	5137.975	49.38	0.78	54.0	4.62	AV	50.00	200	Vertical	Pass
2	5150.000	60.95	0.84	74.0	13.05	Peak	312.00	100	Vertical	Pass
2**	5150.000	49.67	0.84	54.0	4.33	AV	312.00	100	Vertical	Pass
3	5149.025	59.37	0.84	74.0	14.63	Peak	302.00	200	Vertical	Pass
3**	5149.025	50.88	0.84	54.0	3.12	AV	302.00	200	Vertical	Pass

U-NII-1 11ac80 Middle Channel



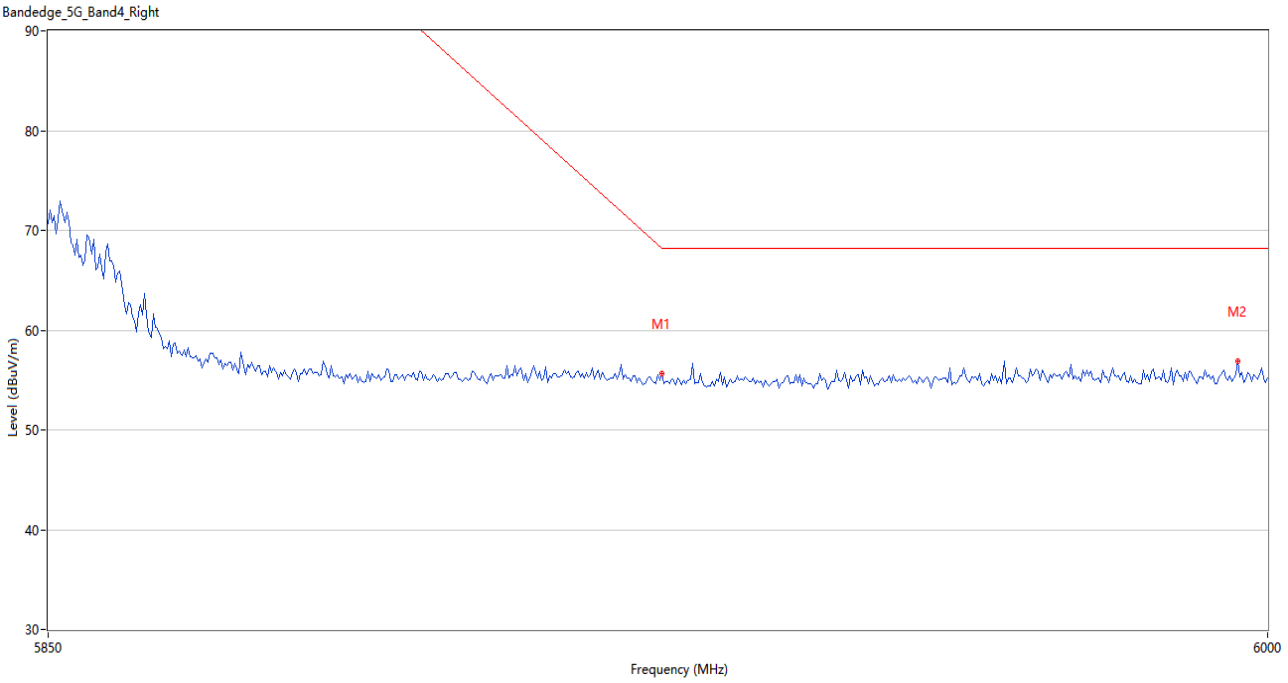
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.98	0.85	74.0	13.02	Peak	50.00	200	Vertical	Pass
1**	5350.000	50.03	0.85	54.0	3.97	AV	50.00	200	Vertical	Pass
2	5351.834	62.14	0.84	74.0	11.86	Peak	66.00	100	Vertical	Pass
2**	5351.834	49.57	0.84	54.0	4.43	AV	66.00	100	Vertical	Pass

U-NII-3 11a Low Channel



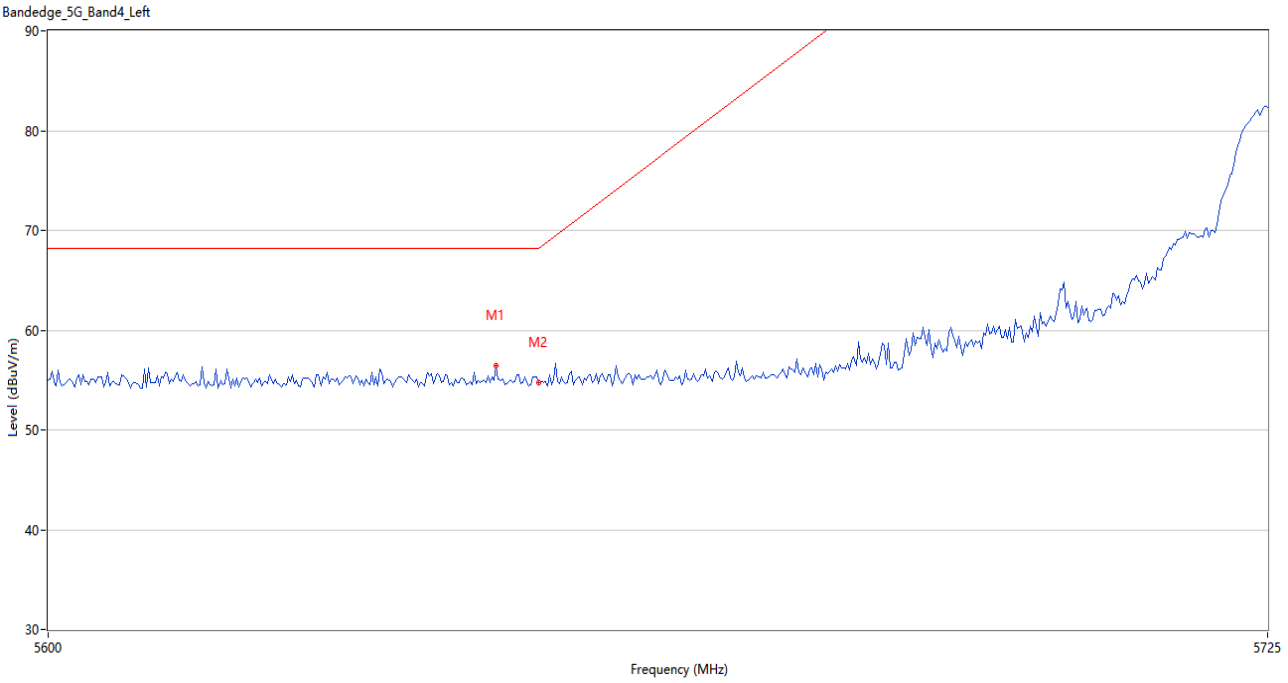
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5616.667	56.79	0.67	68.2	11.41	Peak	163.00	150	Vertical	Pass
2	5650.000	54.84	0.79	68.2	13.36	Peak	108.00	100	Vertical	Pass

U-NII-3 11a High Channel



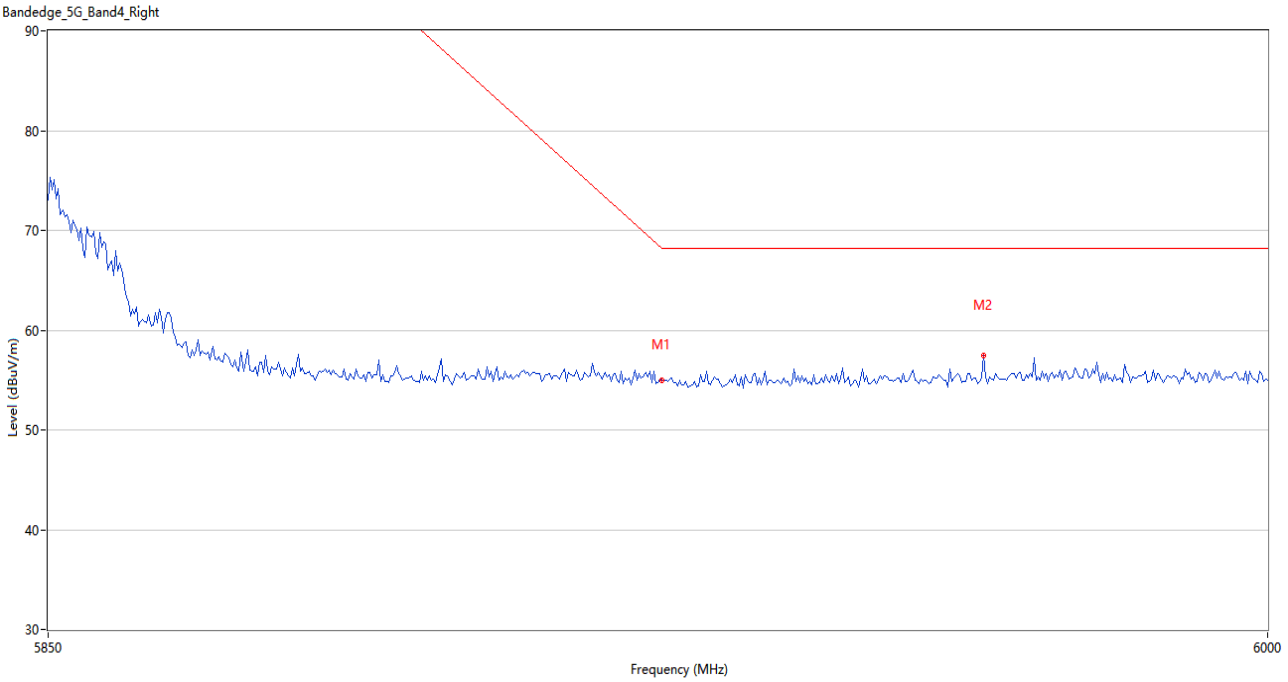
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.62	1.08	68.2	12.58	Peak	186.00	150	Vertical	Pass
2	5996.250	56.92	0.91	68.2	11.28	Peak	98.00	100	Vertical	Pass

U-NII-3 11n20 Low Channel



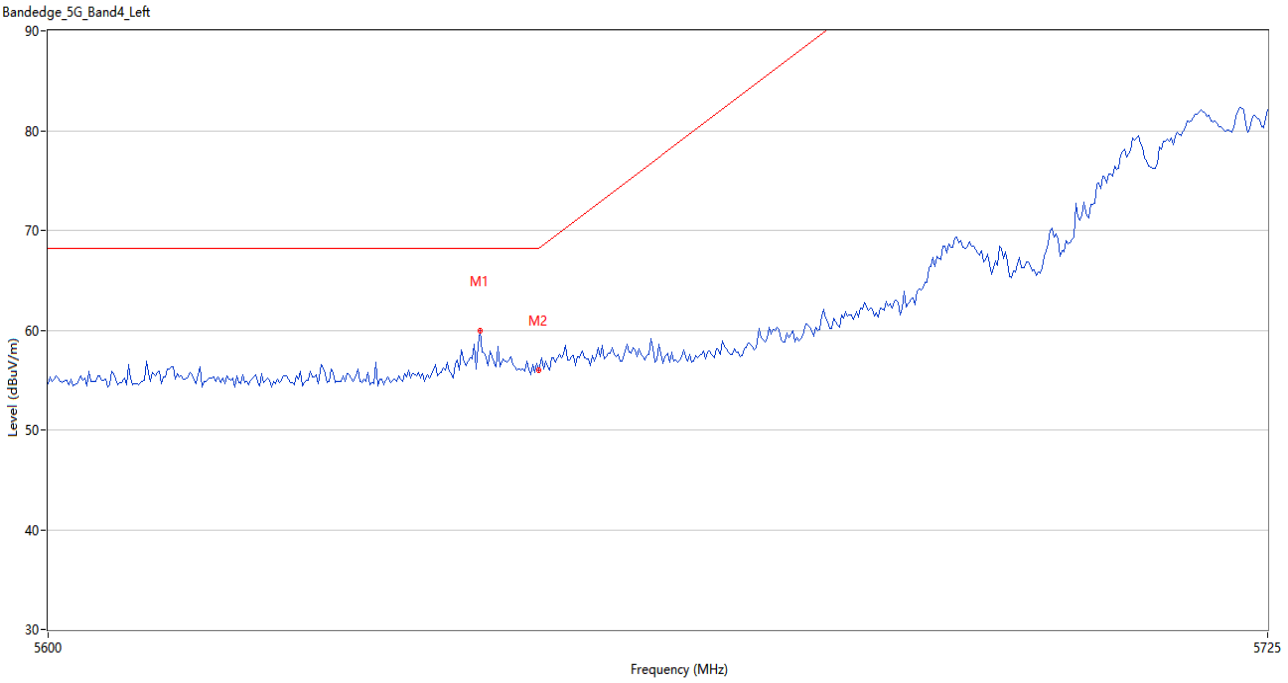
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5645.625	56.48	0.87	68.2	11.72	Peak	237.00	200	Vertical	Pass
2	5650.000	54.69	0.79	68.2	13.51	Peak	216.00	200	Vertical	Pass

U-NII-3 11n20 High Channel



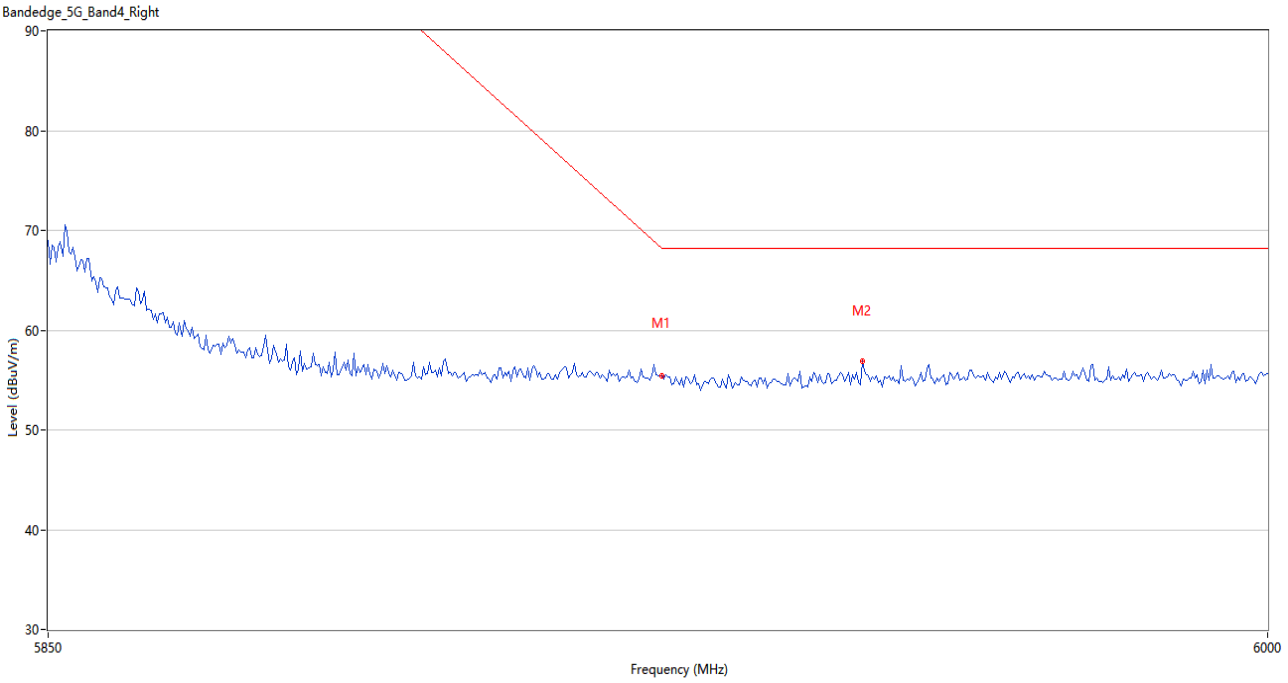
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.98	1.08	68.2	13.22	Peak	205.00	200	Vertical	Pass
2	5964.750	57.51	1.04	68.2	10.69	Peak	26.00	200	Vertical	Pass

U-NII-3 11n40 Low Channel



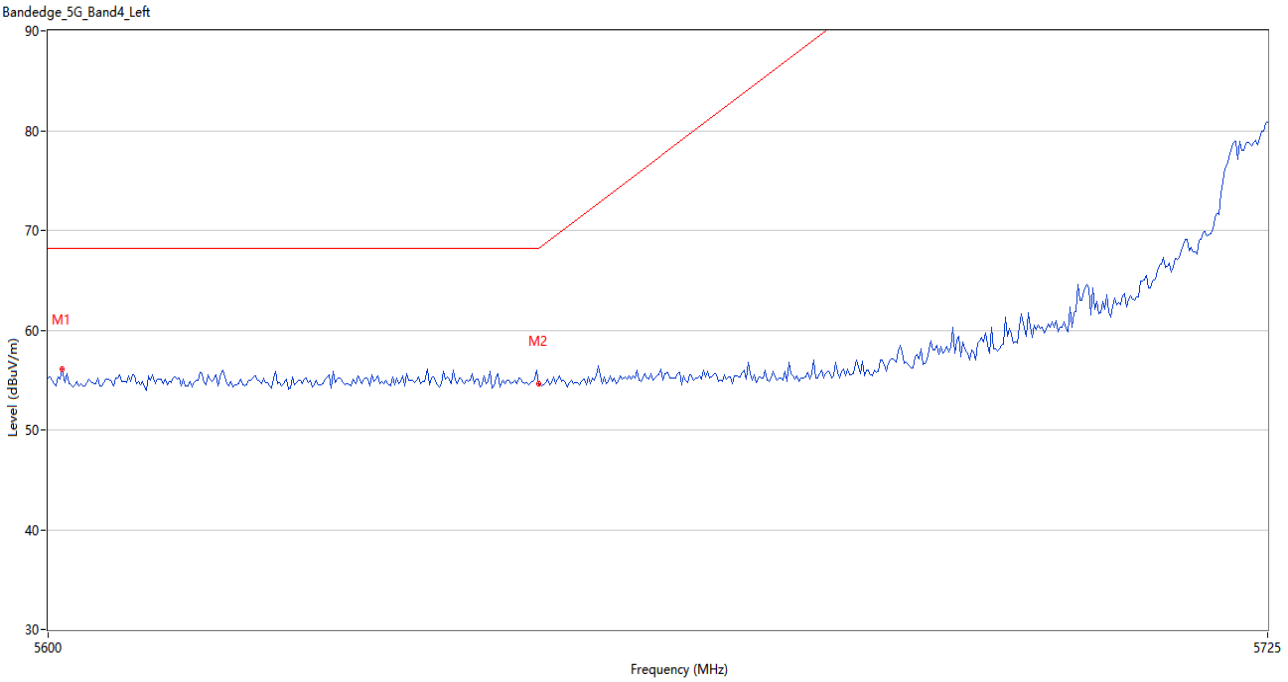
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5643.958	59.90	0.89	68.2	8.30	Peak	360.00	200	Vertical	Pass
2	5650.000	55.95	0.79	68.2	12.25	Peak	0.00	200	Vertical	Pass

U-NII-3 11n40 High Channel



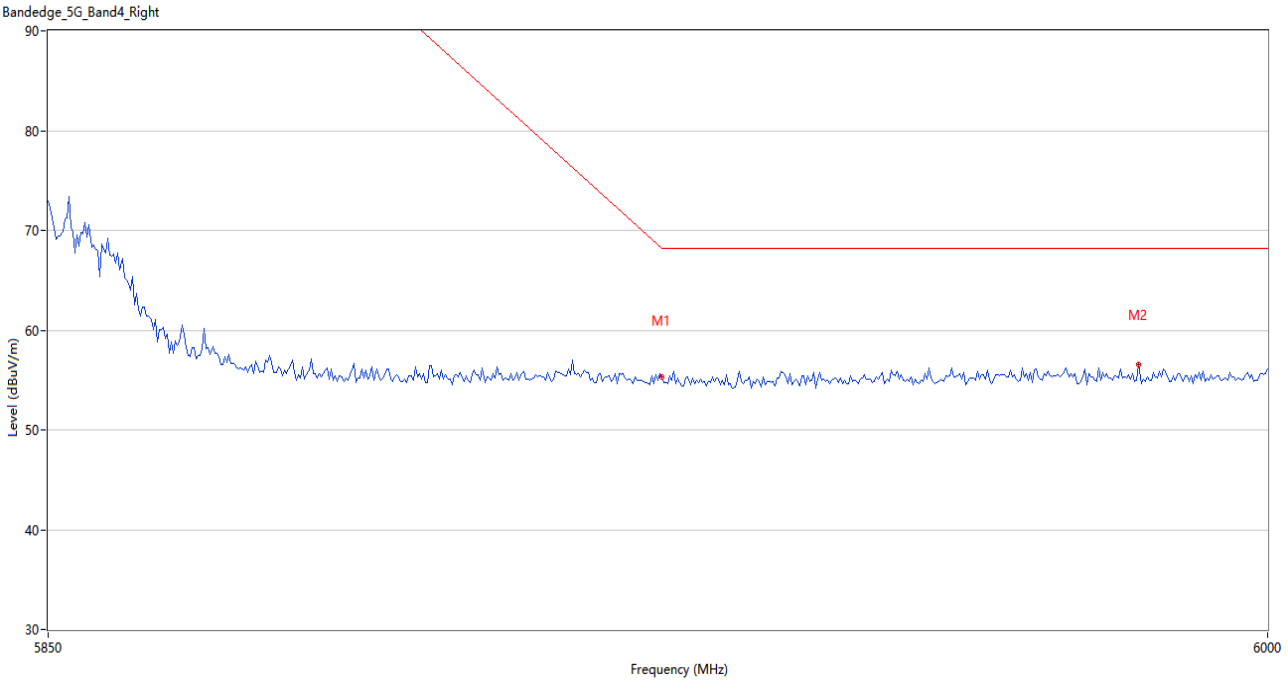
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.37	1.08	68.2	12.83	Peak	10.00	200	Vertical	Pass
2	5949.750	56.93	1.02	68.2	11.27	Peak	71.00	150	Vertical	Pass

U-NII-3 11ac20 Low Channel



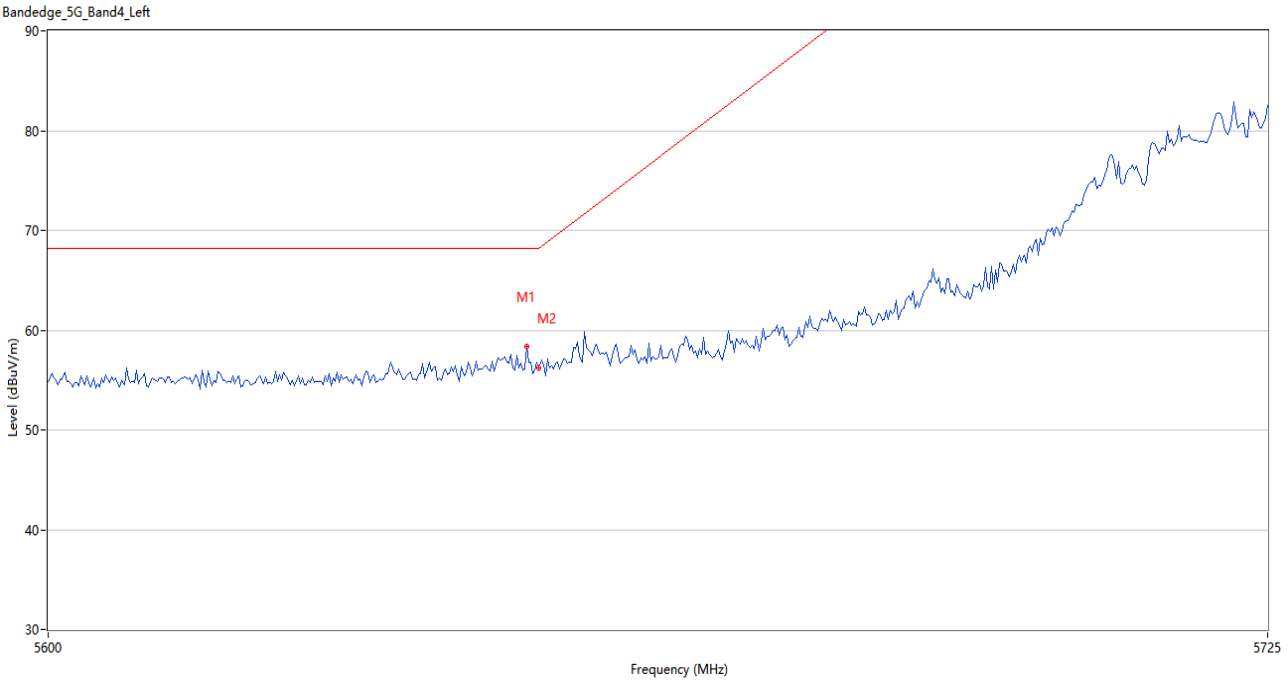
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5601.459	56.07	0.68	68.2	12.13	Peak	246.00	150	Vertical	Pass
2	5650.000	54.64	0.79	68.2	13.56	Peak	264.00	150	Vertical	Pass

U-NII-3 11ac20 High Channel



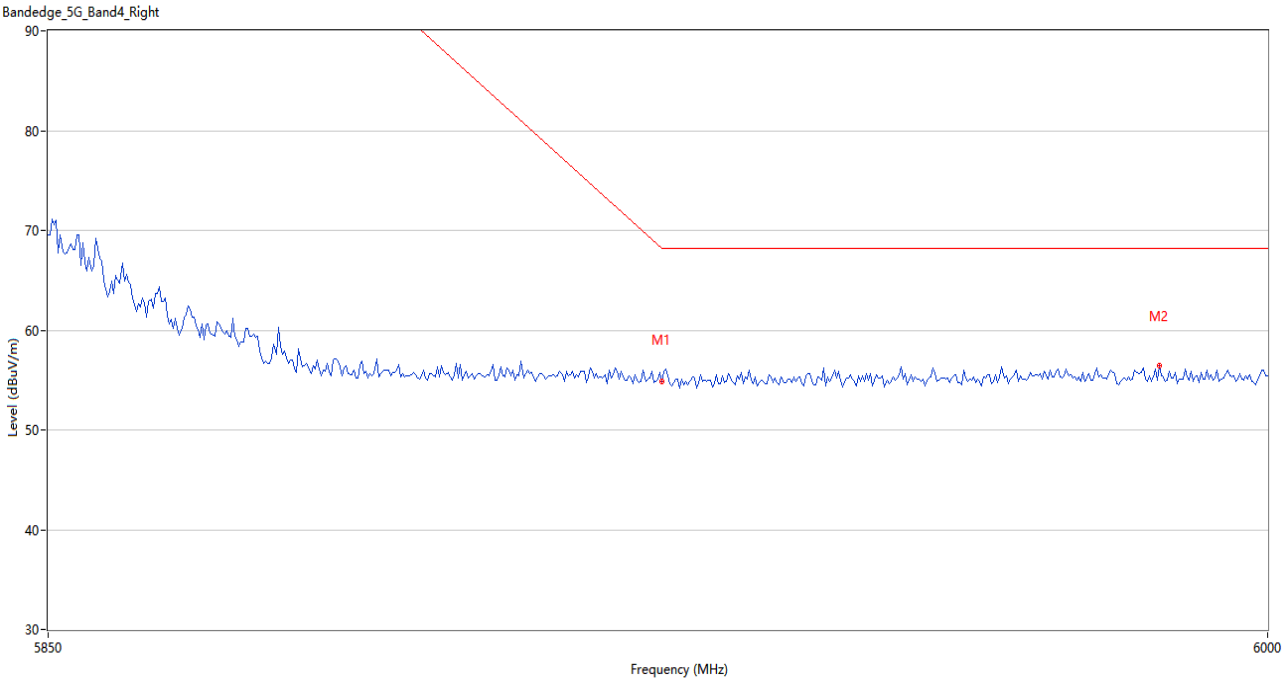
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.34	1.08	68.2	12.86	Peak	109.00	150	Vertical	Pass
2	5984.000	56.56	0.93	68.2	11.64	Peak	241.00	100	Vertical	Pass

U-NII-3 11ac40 Low Channel



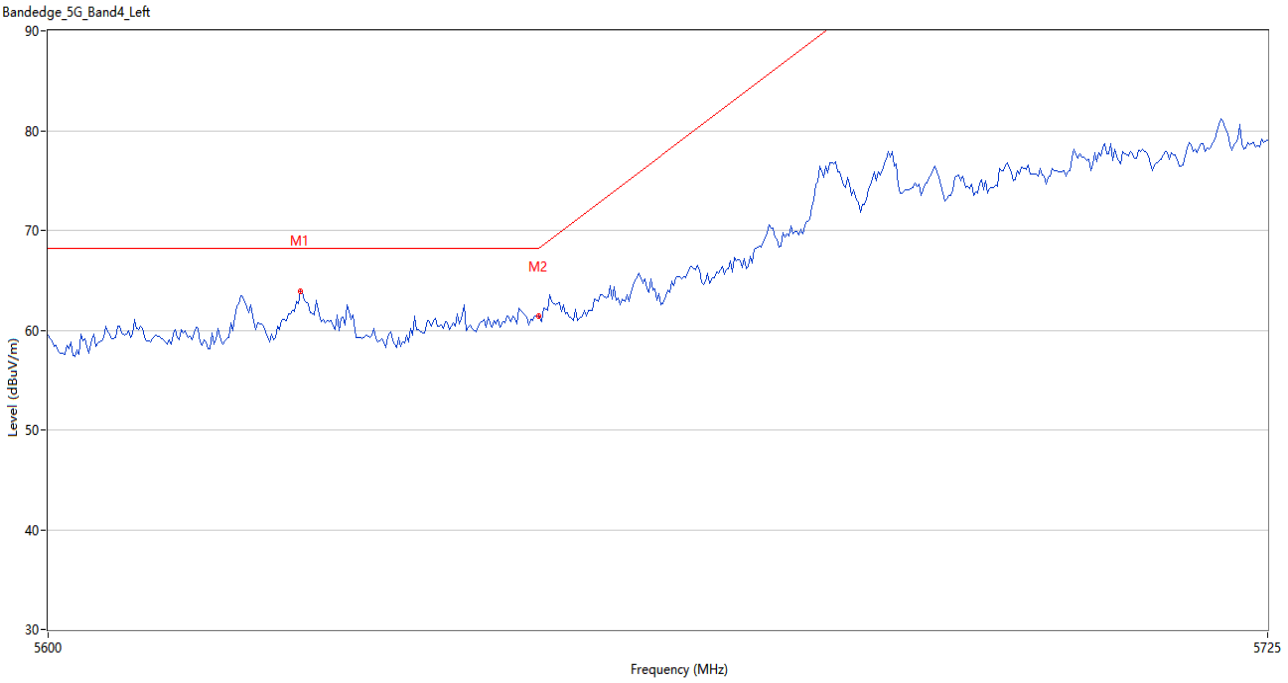
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5648.750	58.33	0.77	68.2	9.87	Peak	0.00	150	Vertical	Pass
2	5650.000	56.25	0.79	68.2	11.95	Peak	360.00	200	Vertical	Pass

U-NII-3 11ac40 High Channel



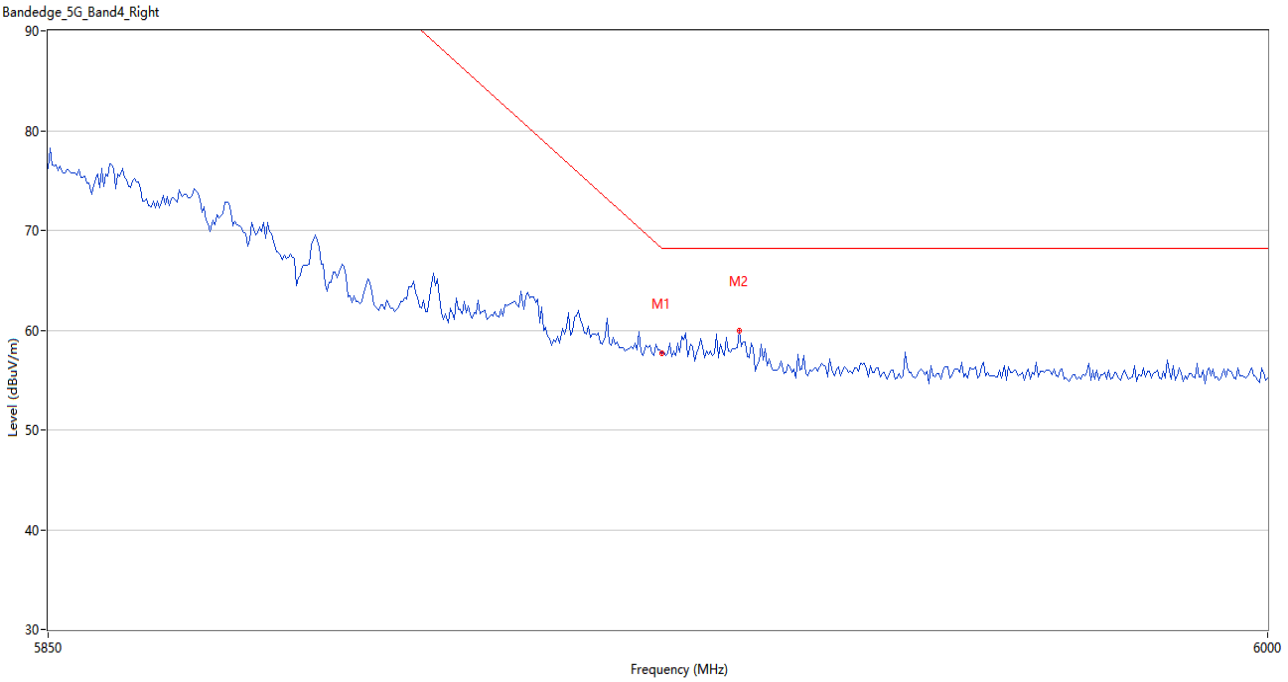
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.82	1.08	68.2	13.38	Peak	97.00	200	Vertical	Pass
2	5986.500	56.39	0.90	68.2	11.81	Peak	172.00	100	Vertical	Pass

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	5625.625	63.92	0.74	68.2	4.28	Peak	126.00	100	Vertical	Pass
2	5650.000	61.38	0.79	68.2	6.82	Peak	0.00	200	Vertical	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	5925.000	57.71	1.08	68.2	10.49	Peak	308.00	150	Vertical	Pass
2	5934.500	59.90	0.95	68.2	8.30	Peak	308.00	200	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2440594-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2440594-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2440594-AI.PDF”.

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