RF TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

laptop

ISSUED TO
E&S International Enterprises, Inc.

7801 Hayvenhurst Avenue, Van Nuys, California 91406 USA

Tested by: Ye Hongji
Date Oct. 22. 2021

Approved by: Hanson Lin
Hanson Lin
(Vice General Manager)
Date Oct. 22. 2021

Report No.:	BL-SZ2190090-604
EUT Name:	laptop
Model Name:	GWNC31514 (refer section 2.4)
Brand Name:	Gateway
Test Standard:	47 CFR Part 15 Subpart E (refer section 3.1)
FCC ID:	2AYPE-GWNC31514
Test Conclusion:	Pass
Test Date:	Sep. 04, 2021 ~ Sep. 10, 2021
Date of Issue:	Oct. 22, 2021

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Revision History

Version	Issue Date	Revisions Content
Rev. 01	Oct. 22, 2021	Initial Issue

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

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

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, 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.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20℃ to 25℃
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

(1) The test report reference to the report template version v4.4.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.

(5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.

(6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant

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

2.2 Manufacturer

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

2.3 Factory

Factory	E&S International Enterprises, Inc.
Address	7801 Hayvenhurst Avenue, Van Nuys, California 91406 USA

2.4 General Description for Equipment under Test (EUT)

EUT Name	laptop
Model Name Under Test	GWNC31514
Series Model Name	N15TP9, C151, U151, T151, C152, U152, T152, C156, T156, GWNC31514-BK, GWNC31514-BL, GWNC31514-RD, GWNC31514-GR
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name.
Hardware Version	N14TBR410/N14TBR120
Software Version	Windows 11 Home
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac U-NII-1/3

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
Product Type	Portable for FCC standard
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 15.20 dBm U-NII-3: 15.09 dBm
Antenna Type	PIFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 1.0 dBi U-NII-3: 5725 MHz to 5850 MHz: 1.0 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)
About the Product	The equipment is laptop, intended for used with information technology equipment.

2.6 Additional Instructions

EUT Software Settings:

Mode	☒ Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

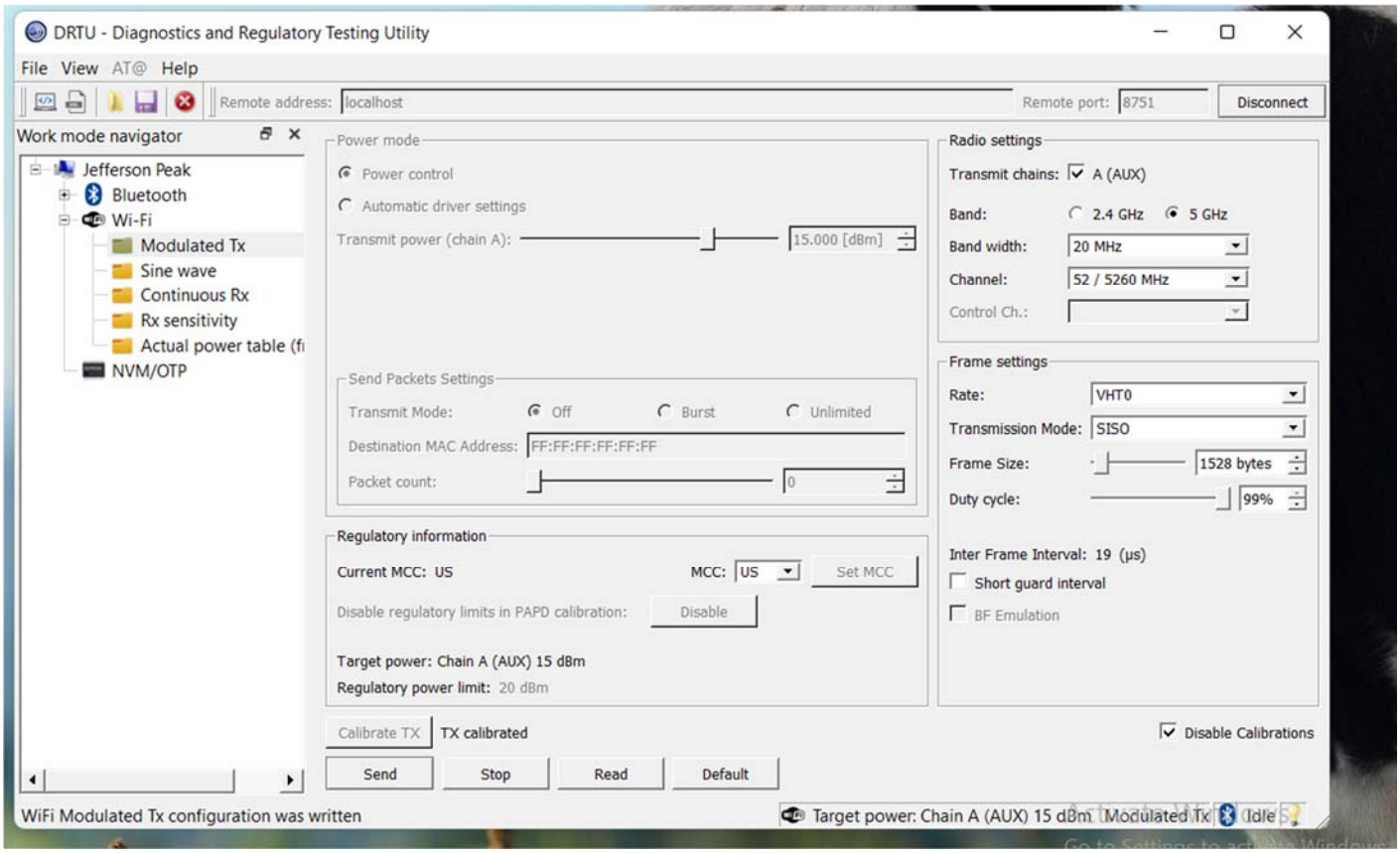
During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test Software Version	DRTU

U-NII-1 (5150 - 5250 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH36	5180	14.5
11a	CH44	5220	14.5
11a	CH48	5240	15.0
11n (HT20)	CH36	5180	14.5
11n (HT20)	CH44	5220	15.0
11n (HT20)	CH48	5240	15.0
11n (HT40)	CH38	5190	14.5
11n (HT40)	CH46	5230	14.5
11ac (VHT20)	CH36	5180	14.5
11ac (VHT20)	CH44	5220	14.5
11ac (VHT20)	CH48	5240	15.0
11ac (VHT40)	CH38	5190	14.5
11ac (VHT40)	CH46	5230	14.5
11ac (VHT80)	CH42	5210	15.0

U-NII-3 (5725 - 5850 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH149	5745	15.0
11a	CH157	5785	15.0
11a	CH165	5825	15.0
11n (HT20)	CH149	5745	15.0
11n (HT20)	CH157	5785	15.0
11n (HT20)	CH165	5825	15.0
11n (HT40)	CH151	5755	15.0
11n (HT40)	CH159	5795	15.0
11ac (VHT20)	CH149	5745	15.0
11ac (VHT20)	CH157	5785	15.0
11ac (VHT20)	CH165	5825	15.0
11ac (VHT40)	CH151	5755	15.0
11ac (VHT40)	CH159	5795	15.0
11ac (VHT80)	CH155	5775	15.0

Run Software:



2.7 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 Channel	U-NII-3 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	48/44/36	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

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 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
8	Receiver Spurious Emissions	--	--	N/A[Note2]

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22℃ to +25℃
	LT (Low Temperature)	0℃
	HT (High Temperature)	+45℃
Working Voltage of the EUT	NV (Normal Voltage)	11.4 V
	LV (Low Voltage)	9.0 V
	HV (High Voltage)	13.0 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2021.04.01	2022.03.31
Bluetooth Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2021.06.01	2022.05.31
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2021.01.27	2022.01.26
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2021.06.01	2022.05.31
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2021.06.01	2022.05.31
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.06.01	2022.05.31
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.06.01	2022.05.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.01	2022.05.31
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2019.10.29	2021.10.28
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2022.07.01
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2022.07.01
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2021.01.05	2023.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2022.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2019.08.08	2022.08.07
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

4.3 Measurement Uncertainty

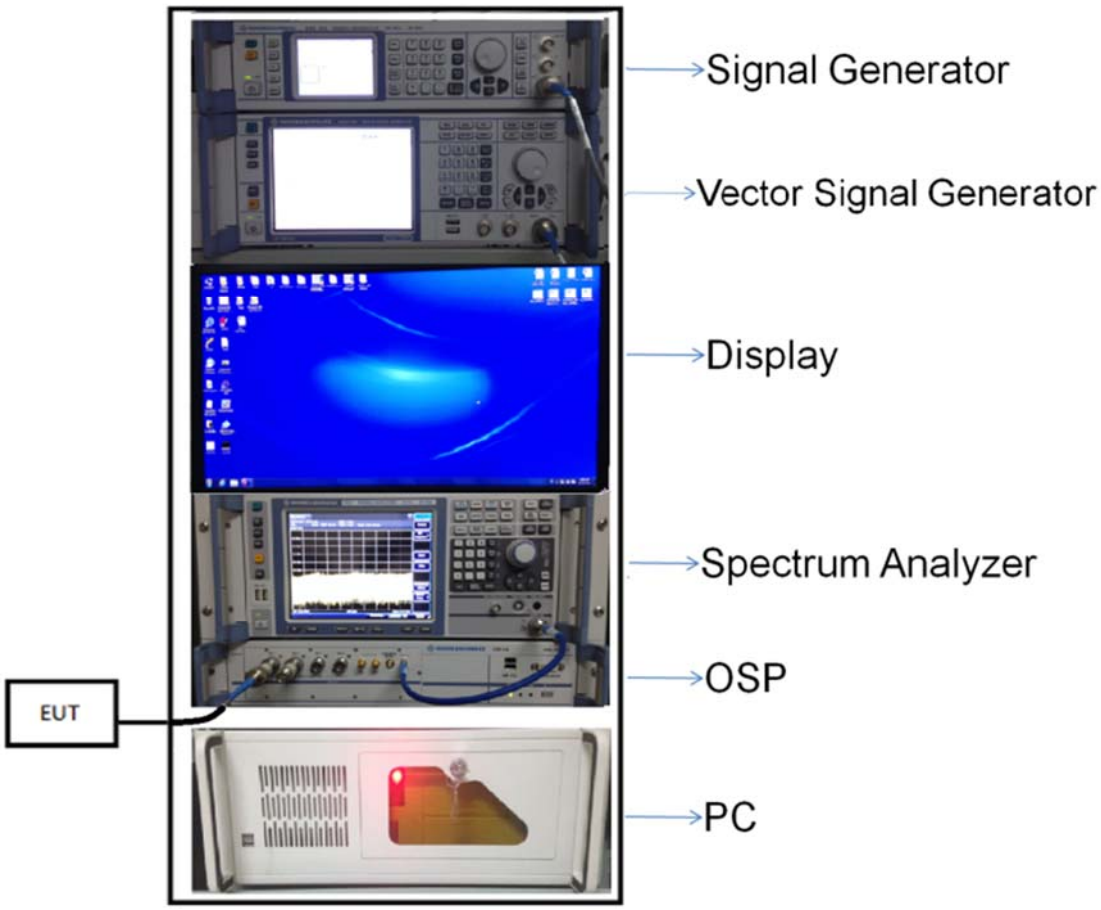
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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	0.82°C
Humidity	4.1%

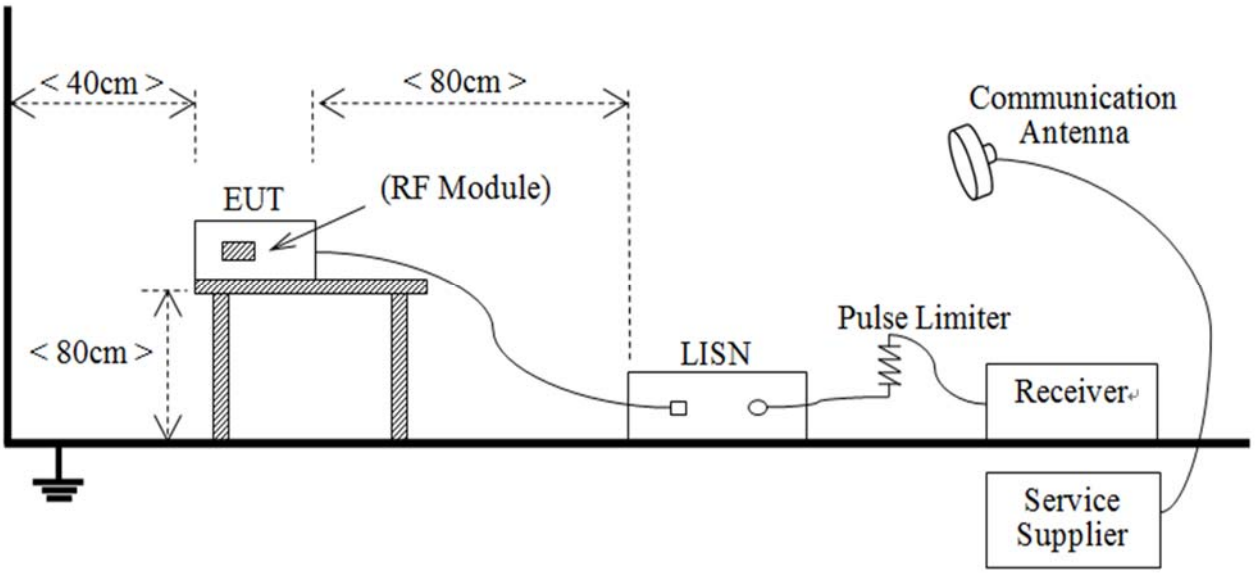
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



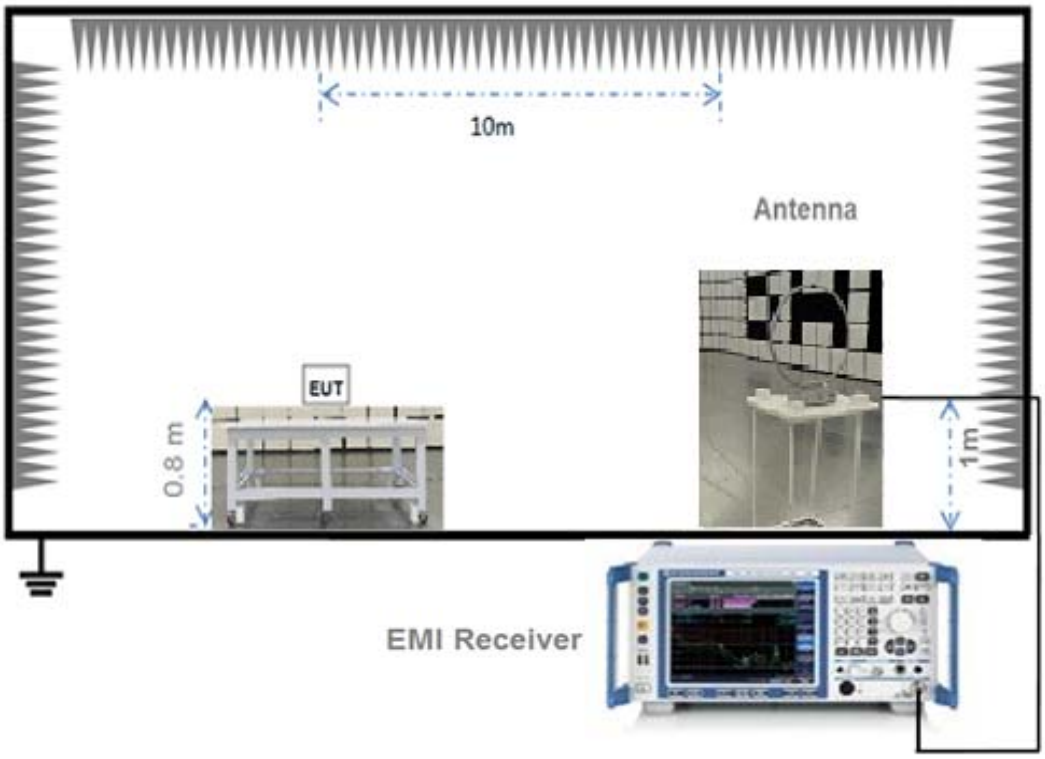
(Diagram 1)

4.4.2 For AC Power Supply Port Test



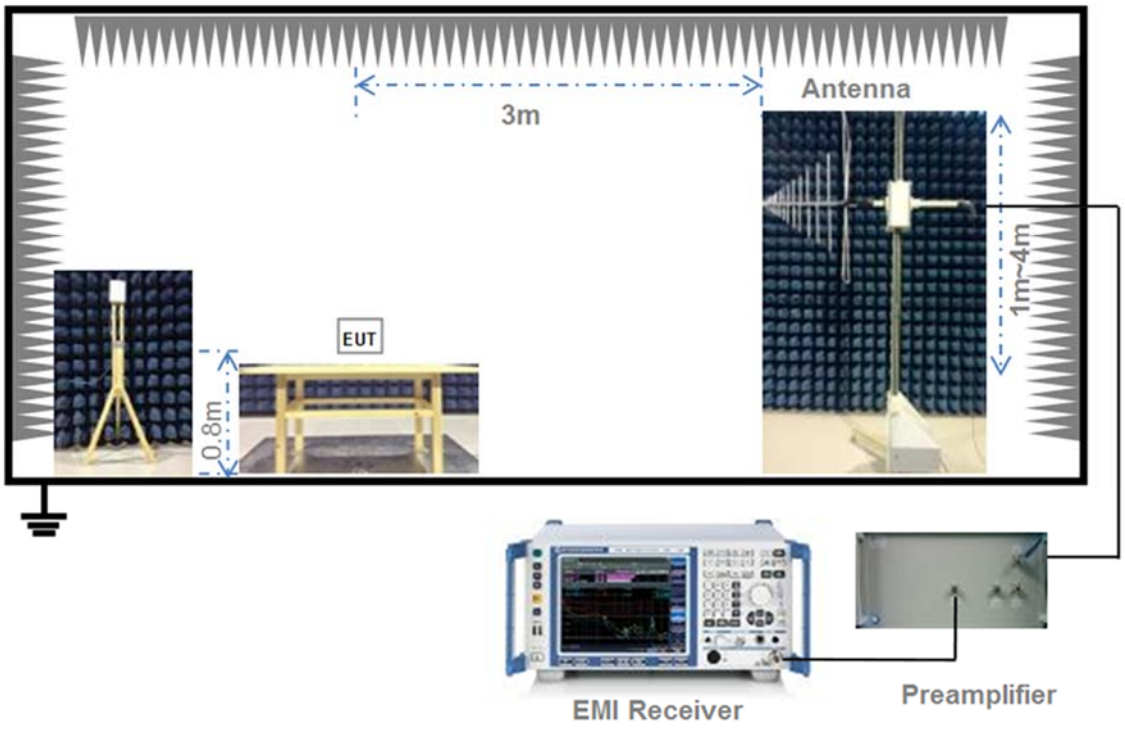
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



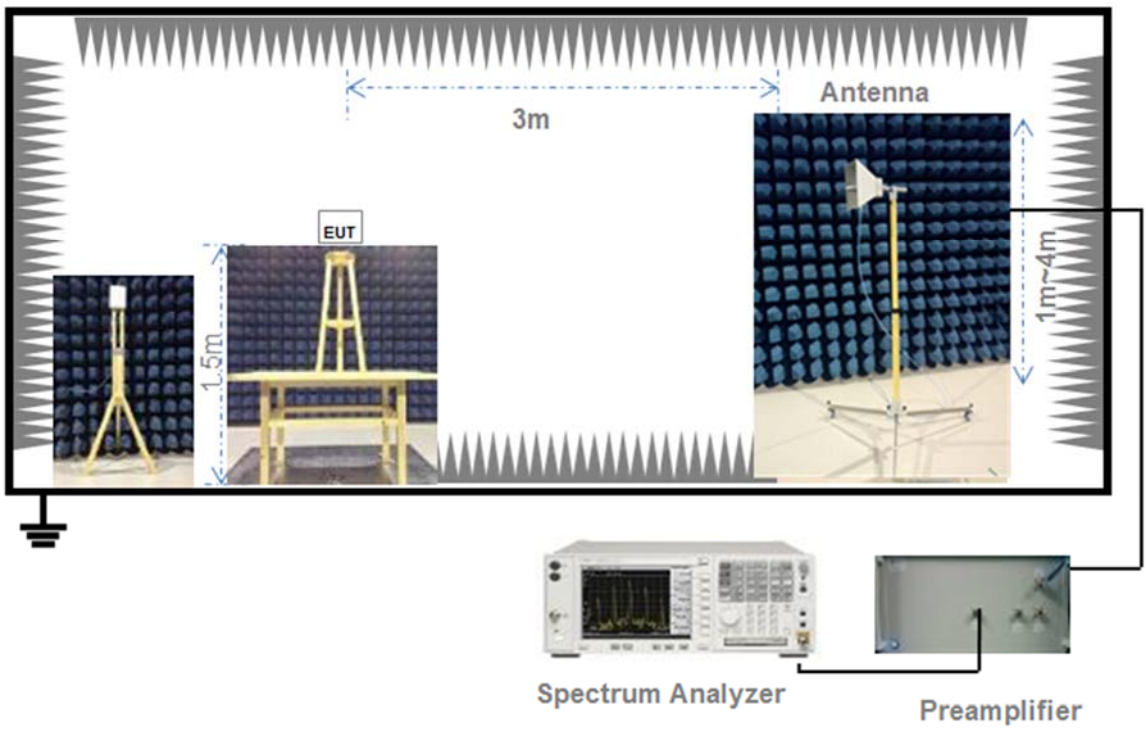
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 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 4.4.1 (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

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

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 4.4.1 (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

RSS-247, 6.2

The maximum power spectral density should not exceed:

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

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

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

5.3.2 Test Setup

The section 4.4.1 (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 4.4.2 (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.

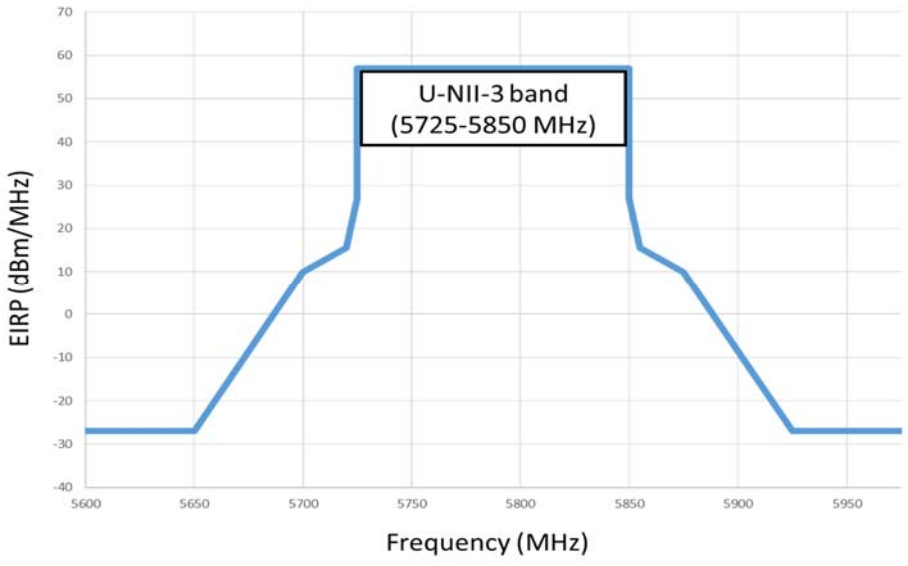
5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

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.

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

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

5.5.2 Test Setup

The section 4.4.3-4.4.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test

setup please refer to ANNEX B.

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)

c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).

d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).

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

$E = EIRP – 20\log D + 104.8$

where:

E = electric field strength in dBμV/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

a) RBW = as specified in Table 1.

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

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	14.75	29.85	250	Pass
11a	CH44	14.62	28.97	250	Pass
11a	CH48	15.02	31.77	250	Pass
11n (HT20)	CH36	14.64	29.11	250	Pass
11n (HT20)	CH44	15.03	31.84	250	Pass
11n (HT20)	CH48	14.96	31.33	250	Pass
11n (HT40)	CH38	14.79	30.13	250	Pass
11n (HT40)	CH46	14.67	29.31	250	Pass
11ac (VHT20)	CH36	14.71	29.58	250	Pass
11ac (VHT20)	CH44	14.60	28.84	250	Pass
11ac (HVT20)	CH48	15.04	31.92	250	Pass
11ac (VHT40)	CH38	14.83	30.41	250	Pass
11ac (VHT40)	CH46	14.69	29.44	250	Pass
11ac (VHT80)	CH42	15.20	33.11	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.92	31.05	1000	Pass
11a	CH157	14.87	30.69	1000	Pass
11a	CH165	14.60	28.84	1000	Pass
11n (HT20)	CH149	14.89	30.83	1000	Pass
11n (HT20)	CH157	14.77	29.99	1000	Pass
11n (HT20)	CH165	14.60	28.84	1000	Pass
11n (HT40)	CH151	15.05	31.99	1000	Pass
11n (HT40)	CH159	14.87	30.69	1000	Pass
11ac (VHT20)	CH149	14.93	31.12	1000	Pass
11ac (VHT20)	CH157	14.81	30.27	1000	Pass
11ac (VHT20)	CH165	14.59	28.77	1000	Pass
11ac (VHT40)	CH151	15.09	32.28	1000	Pass
11ac (VHT40)	CH159	14.85	30.55	1000	Pass
11ac (VHT80)	CH155	15.01	31.70	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2190090-604 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	16.93	16.90
11a	CH44	16.94	16.87
11a	CH48	16.95	16.90
11n (HT20)	CH36	17.97	17.93
11n (HT20)	CH44	17.95	17.94
11n (HT20)	CH48	17.99	17.94
11n (HT40)	CH38	36.41	36.40
11n (HT40)	CH46	36.48	36.51
11ac (VHT20)	CH36	17.99	17.95
11ac (VHT20)	CH44	17.97	17.95
11ac (VHT20)	CH48	17.98	17.97
11ac (VHT40)	CH38	36.40	36.41
11ac (VHT40)	CH46	36.48	36.49
11ac (VHT80)	CH42	75.09	75.04

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	16.88	16.85
11a	CH157	16.90	16.89
11a	CH165	16.90	16.86
11n (HT20)	CH149	17.96	17.94
11n (HT20)	CH157	17.96	17.94
11n (HT20)	CH165	17.95	17.93
11n (HT40)	CH151	36.43	36.43
11n (HT40)	CH159	36.46	36.44
11ac (VHT20)	CH149	17.96	17.92
11ac (VHT20)	CH157	17.97	17.95
11ac (VHT20)	CH165	17.96	17.93
11ac (VHT40)	CH151	36.41	36.41
11ac (VHT40)	CH159	36.47	36.48
11ac (VHT80)	CH155	75.19	75.15

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2190090-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.45	500.00	Pass
11a	CH157	16.45	500.00	Pass
11a	CH165	16.45	500.00	Pass
11n (HT20)	CH149	17.70	500.00	Pass
11n (HT20)	CH157	17.70	500.00	Pass
11n (HT20)	CH165	17.65	500.00	Pass
11n (HT40)	CH151	36.45	500.00	Pass
11n (HT40)	CH159	36.45	500.00	Pass
11ac (VHT20)	CH149	17.70	500.00	Pass
11ac (VHT20)	CH157	17.70	500.00	Pass
11ac (VHT20)	CH165	17.65	500.00	Pass
11ac (VHT40)	CH151	36.45	500.00	Pass
11ac (VHT40)	CH159	36.45	500.00	Pass
11ac (VHT80)	CH155	75.20	500.00	Pass

A.4 Power Spectral Density

Note [1]: Test plots please refer to the document “Annex No.: BL-SZ2190090-604 Data Part 3.pdf”.
Note [2]: The RBW used in U-NII-3 is 1 MHz, and the PSD factor is: 10*log (500 kHz/RBW) =-3 dBm.
Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	3.07	11.00	Pass
11a	CH44	2.59	11.00	Pass
11a	CH48	3.06	11.00	Pass
11n (HT20)	CH36	2.65	11.00	Pass
11n (HT20)	CH44	2.73	11.00	Pass
11n (HT20)	CH48	2.74	11.00	Pass
11n (HT40)	CH38	-0.44	11.00	Pass
11n (HT40)	CH46	-0.71	11.00	Pass
11ac (VHT20)	CH36	2.61	11.00	Pass
11ac (VHT20)	CH44	2.26	11.00	Pass
11ac (VHT20)	CH48	2.73	11.00	Pass
11ac (VHT40)	CH38	-0.45	11.00	Pass
11ac (VHT40)	CH46	-0.76	11.00	Pass
11ac (VHT80)	CH42	-2.61	11.00	Pass

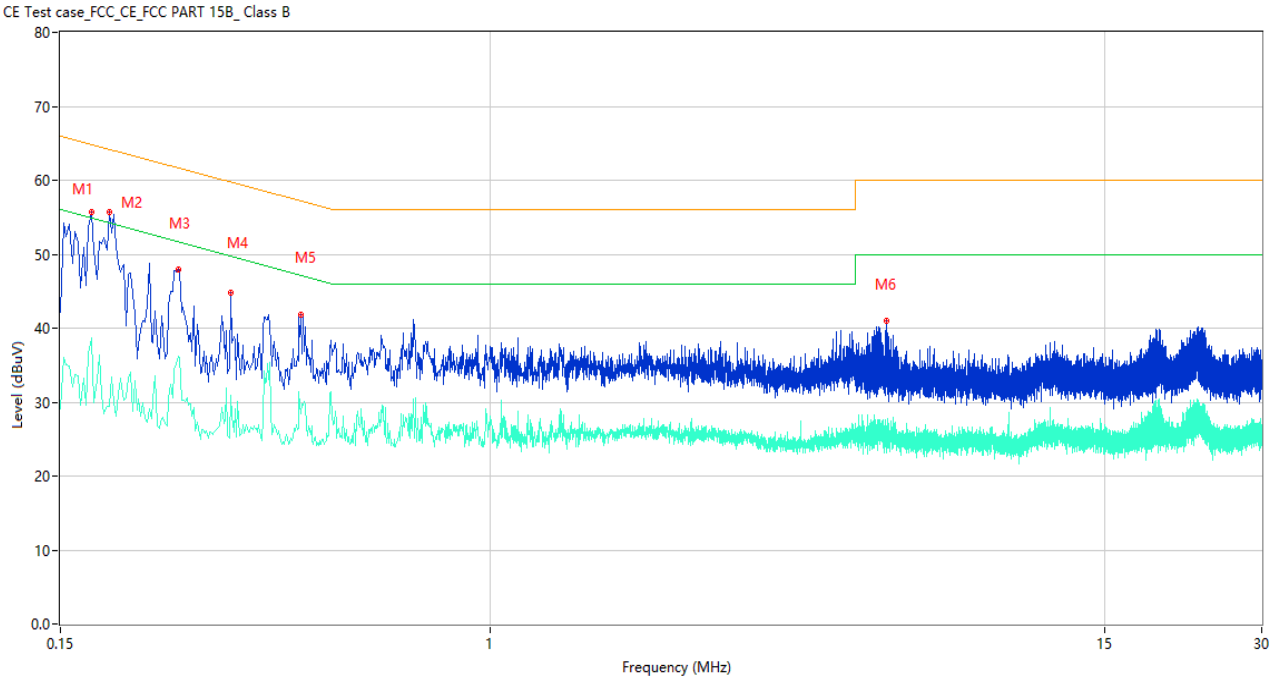
U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	0.32	30.00	Pass
11a	CH157	0.16	30.00	Pass
11a	CH165	0.37	30.00	Pass
11n (HT20)	CH149	0.02	30.00	Pass
11n (HT20)	CH157	-0.15	30.00	Pass
11n (HT20)	CH165	0.02	30.00	Pass
11n (HT40)	CH151	-2.83	30.00	Pass
11n (HT40)	CH159	-2.95	30.00	Pass
11ac (VHT20)	CH149	0.02	30.00	Pass
11ac (VHT20)	CH157	-0.18	30.00	Pass
11ac (VHT20)	CH165	0.05	30.00	Pass
11ac (VHT40)	CH151	-3.00	30.00	Pass
11ac (VHT40)	CH159	-3.00	30.00	Pass
11ac (VHT80)	CH155	-5.40	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.

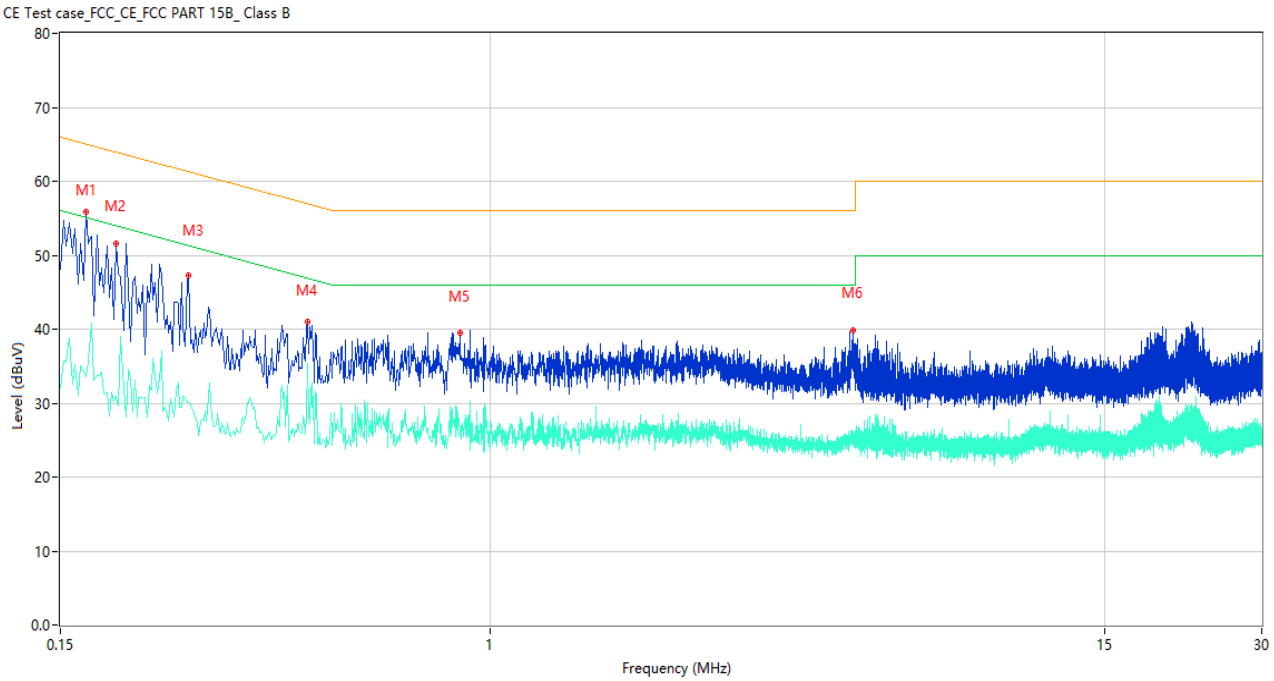
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.172	55.62	10.40	64.86	-9.24	Peak	L	Pass
1**	0.172	38.65	10.40	54.86	-16.21	AV	L	Pass
2	0.186	55.78	10.39	64.21	-8.43	Peak	L	Pass
2**	0.186	29.38	10.39	54.21	-24.83	AV	L	Pass
3	0.252	47.95	10.34	61.69	-13.74	Peak	L	Pass
3**	0.252	36.25	10.34	51.69	-15.44	AV	L	Pass
4	0.318	44.75	10.33	59.76	-15.01	Peak	L	Pass
4**	0.318	30.93	10.33	49.76	-18.83	AV	L	Pass
5	0.434	41.77	10.31	57.18	-15.41	Peak	L	Pass
5**	0.434	28.40	10.31	47.18	-18.78	AV	L	Pass
6	5.730	40.98	10.33	60.00	-19.02	Peak	L	Pass
6**	5.730	26.22	10.33	50.00	-23.78	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.166	46.65	10.40	65.16	-18.51	Peak	N	Pass
1**	0.166	34.42	10.40	55.16	-20.74	AV	N	Pass
2	0.192	51.63	10.38	63.95	-12.32	Peak	N	Pass
2**	0.192	30.91	10.38	53.95	-23.04	AV	N	Pass
3	0.264	47.24	10.34	61.30	-14.06	Peak	N	Pass
3**	0.264	30.26	10.34	51.30	-21.04	AV	N	Pass
4	0.446	40.95	10.30	56.95	-16.00	Peak	N	Pass
4**	0.446	35.31	10.30	46.95	-11.64	AV	N	Pass
5	0.874	39.48	10.25	56.00	-16.52	Peak	N	Pass
5**	0.874	26.69	10.25	46.00	-19.31	AV	N	Pass
6	4.940	39.79	10.31	56.00	-16.21	Peak	N	Pass
6**	4.940	25.94	10.31	46.00	-20.06	AV	N	Pass

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

Test Data

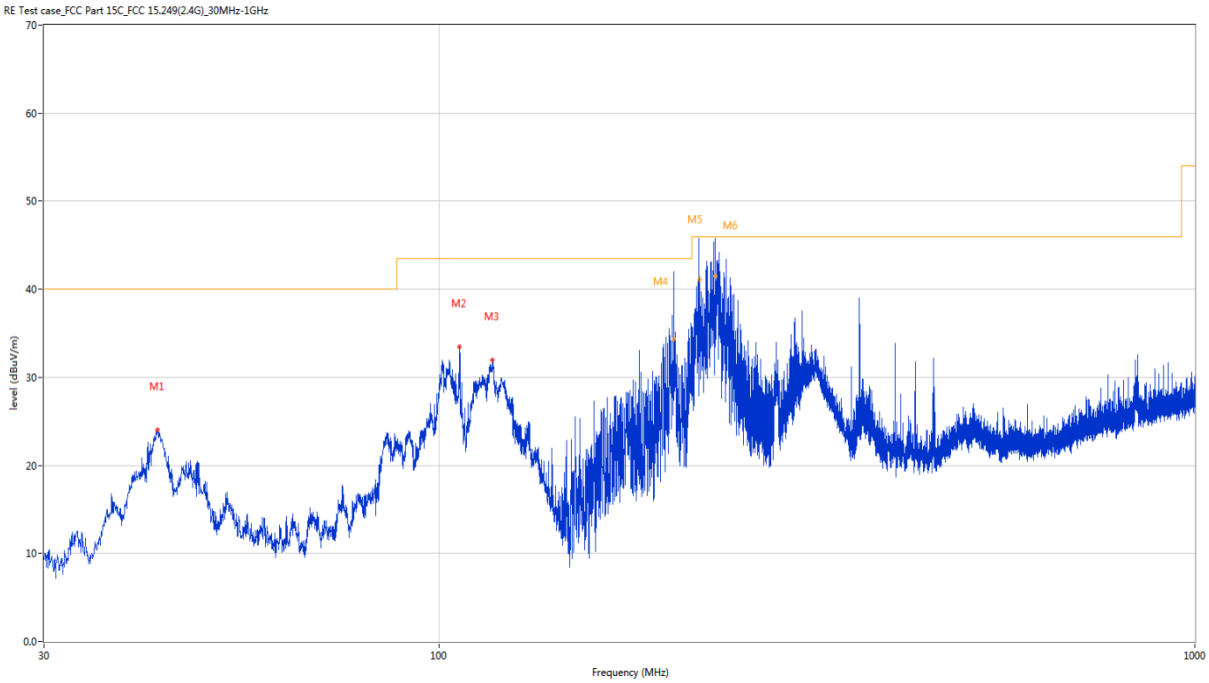
Note [1]: The symbol of "--" in the table which means not application.

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

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

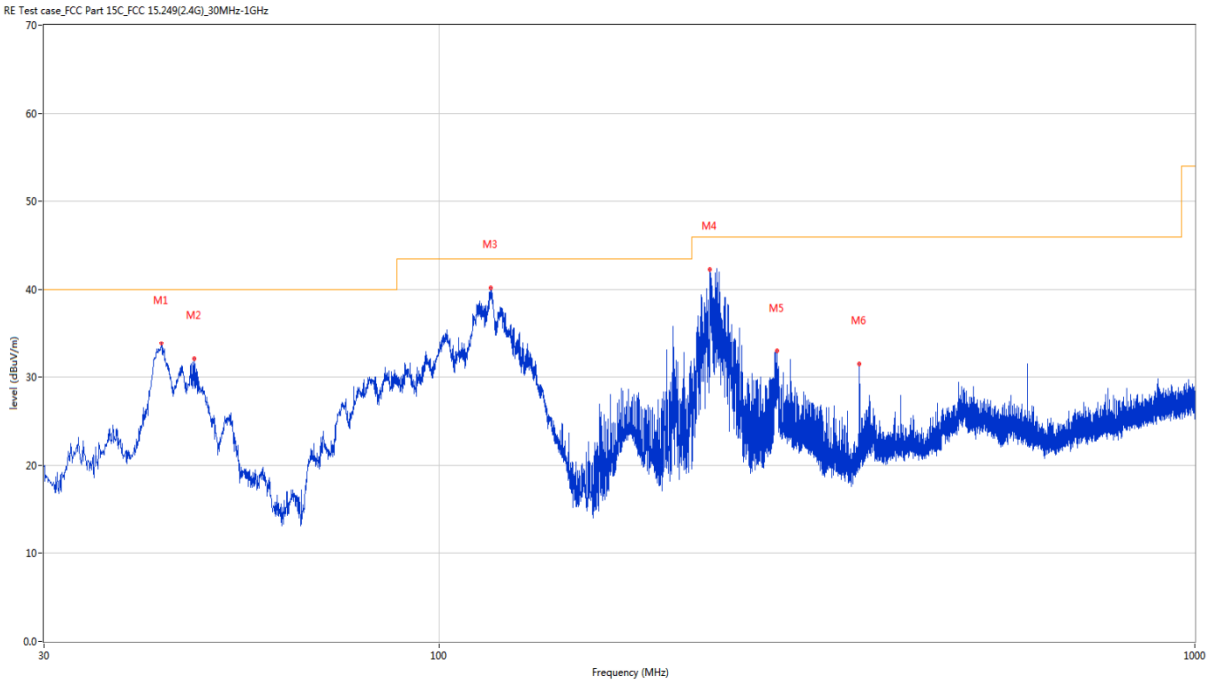
Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.416	24.00	-23.43	40.0	-16.00	Peak	182.70	200	Horizontal	Pass
2	106.436	33.47	-24.12	43.5	-10.03	Peak	178.50	200	Horizontal	Pass
3	117.688	32.01	-25.85	43.5	-11.49	Peak	0.00	200	Horizontal	Pass
4	204.494	42.49	-23.74	43.5	-1.01	Peak	94.40	161	Horizontal	N/A
4*	204.494	34.40	-23.74	43.5	-9.10	QP	94.40	161	Horizontal	Pass
5	221.185	49.17	-23.96	46.0	3.17	Peak	111.80	100	Horizontal	N/A
5*	221.185	41.07	-23.96	46.0	-4.93	QP	111.80	100	Horizontal	Pass
6	231.998	50.15	-23.35	46.0	4.15	Peak	140.90	145	Horizontal	N/A
6*	231.998	41.49	-23.35	46.0	-4.51	QP	140.90	145	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.901	33.83	-23.39	40.0	-6.17	Peak	220.20	100	Vertical	Pass
2	47.411	32.12	-22.78	40.0	-7.88	Peak	173.90	100	Vertical	Pass
3	117.009	40.20	-25.83	43.5	-3.30	Peak	114.40	100	Vertical	Pass
4	228.316	42.33	-23.75	46.0	-3.67	Peak	27.10	200	Vertical	Pass
5	280.211	32.93	-21.77	46.0	-13.07	Peak	161.20	200	Vertical	Pass
6	359.994	31.43	-19.85	46.0	-14.57	Peak	152.80	100	Vertical	Pass

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1123.300	45.27	-18.22	74.0	-28.73	Peak	159.00	150	Horizontal	Pass
1**	1123.300	37.22	-18.22	54.0	-16.78	AV	159.00	150	Horizontal	Pass
2	2829.000	43.09	-10.90	74.0	-30.91	Peak	91.00	150	Horizontal	Pass
2**	2829.000	33.49	-10.90	54.0	-20.51	AV	91.00	150	Horizontal	Pass
3	5181.750	106.99	-2.53	--	-6.01	Peak	113.00	150	Horizontal	N/A
3**	5181.750	99.61	-2.53	--	99.61	AV	113.00	150	Horizontal	N/A
4	8290.463	48.59	-4.58	74.0	-25.41	Peak	174.00	150	Horizontal	Pass
4**	8290.463	39.23	-4.58	54.0	-14.77	AV	174.00	150	Horizontal	Pass
5	11510.963	49.08	-4.03	74.0	-24.92	Peak	7.00	150	Horizontal	Pass
5**	11510.963	39.16	-4.03	54.0	-14.84	AV	7.00	150	Horizontal	Pass
6	16128.375	51.97	-0.77	74.0	-22.03	Peak	329.00	150	Horizontal	Pass
6**	16128.375	42.80	-0.77	54.0	-11.20	AV	329.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1117.800	41.04	-18.17	74.0	-32.96	Peak	313.00	150	Vertical	Pass
1**	1117.800	31.95	-18.17	54.0	-22.05	AV	313.00	150	Vertical	Pass
2	3780.500	47.50	-6.04	74.0	-26.50	Peak	82.00	150	Vertical	Pass
2**	3780.500	37.27	-6.04	54.0	-16.73	AV	82.00	150	Vertical	Pass
3	5181.500	100.90	-2.55	--	33.90	Peak	67.00	150	Vertical	N/A
3**	5181.500	92.60	-2.55	--	92.60	AV	67.00	150	Vertical	N/A
4	8265.287	48.04	-4.89	74.0	-25.96	Peak	298.00	150	Vertical	Pass
4**	8265.287	38.95	-4.89	54.0	-15.05	AV	298.00	150	Vertical	Pass
5	11915.187	48.70	-3.05	74.0	-25.30	Peak	119.00	150	Vertical	Pass
5**	11915.187	39.72	-3.05	54.0	-14.28	AV	119.00	150	Vertical	Pass
6	16144.388	51.50	-0.25	74.0	-22.50	Peak	21.00	150	Vertical	Pass
6**	16144.388	42.61	-0.25	54.0	-11.39	AV	21.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.300	45.60	-18.09	74.0	-28.40	Peak	155.00	150	Horizontal	Pass
1**	1121.300	37.88	-18.09	54.0	-16.12	AV	155.00	150	Horizontal	Pass
2	3682.750	46.72	-7.22	74.0	-27.28	Peak	0.00	150	Horizontal	Pass
2**	3682.750	37.36	-7.22	54.0	-16.64	AV	0.00	150	Horizontal	Pass
3	5216.000	105.93	-3.62	--	-9.07	Peak	115.00	150	Horizontal	N/A
3**	5216.000	98.36	-3.62	--	98.36	AV	115.00	150	Horizontal	N/A
4	8077.663	49.21	-3.75	74.0	-24.79	Peak	360.00	150	Horizontal	Pass
4**	8077.663	39.54	-3.75	54.0	-14.46	AV	360.00	150	Horizontal	Pass
5	11518.325	48.64	-4.24	74.0	-25.36	Peak	53.00	150	Horizontal	Pass
5**	11518.325	39.63	-4.24	54.0	-14.37	AV	53.00	150	Horizontal	Pass
6	16061.175	51.45	-1.64	74.0	-22.55	Peak	170.00	150	Horizontal	Pass
6**	16061.175	41.78	-1.64	54.0	-12.22	AV	170.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.000	41.63	-18.08	74.0	-32.37	Peak	315.00	150	Vertical	Pass
1**	1121.000	32.32	-18.08	54.0	-21.68	AV	315.00	150	Vertical	Pass
2	3705.500	47.55	-6.61	74.0	-26.45	Peak	292.00	150	Vertical	Pass
2**	3705.500	37.38	-6.61	54.0	-16.62	AV	292.00	150	Vertical	Pass
3	5213.000	100.61	-3.29	--	41.61	Peak	59.00	150	Vertical	N/A
3**	5213.000	92.49	-3.29	--	92.49	AV	59.00	150	Vertical	N/A
4	8295.925	48.90	-4.30	74.0	-25.10	Peak	254.00	150	Vertical	Pass
4**	8295.925	39.71	-4.30	54.0	-14.29	AV	254.00	150	Vertical	Pass
5	11900.701	48.58	-2.50	74.0	-25.42	Peak	154.00	150	Vertical	Pass
5**	11900.701	39.94	-2.50	54.0	-14.06	AV	154.00	150	Vertical	Pass
6	16138.087	51.60	-0.45	74.0	-22.40	Peak	169.00	150	Vertical	Pass
6**	16138.087	42.79	-0.45	54.0	-11.21	AV	169.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.500	44.96	-18.10	74.0	-29.04	Peak	159.00	150	Horizontal	Pass
1**	1121.500	38.92	-18.10	54.0	-15.08	AV	159.00	150	Horizontal	Pass
2	2785.700	43.69	-10.97	74.0	-30.31	Peak	191.00	150	Horizontal	Pass
2**	2785.700	33.20	-10.97	54.0	-20.80	AV	191.00	150	Horizontal	Pass
3	5237.750	107.81	-2.73	--	-7.19	Peak	115.00	150	Horizontal	N/A
3**	5237.750	99.69	-2.73	--	99.69	AV	115.00	150	Horizontal	N/A
4	8300.438	48.87	-4.23	74.0	-25.13	Peak	118.00	150	Horizontal	Pass
4**	8300.438	39.91	-4.23	54.0	-14.09	AV	118.00	150	Horizontal	Pass
5	12288.775	48.84	-3.65	74.0	-25.16	Peak	74.00	150	Horizontal	Pass
5**	12288.775	38.46	-3.65	54.0	-15.54	AV	74.00	150	Horizontal	Pass
6	16141.237	51.69	-0.35	74.0	-22.31	Peak	226.00	150	Horizontal	Pass
6**	16141.237	42.77	-0.35	54.0	-11.23	AV	226.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1120.000	40.98	-18.03	74.0	-33.02	Peak	332.00	150	Vertical	Pass
1**	1120.000	32.23	-18.03	54.0	-21.77	AV	332.00	150	Vertical	Pass
2	3810.500	47.78	-5.79	74.0	-26.22	Peak	277.00	150	Vertical	Pass
2**	3810.500	37.84	-5.79	54.0	-16.16	AV	277.00	150	Vertical	Pass
3	5246.250	102.63	-3.00	--	41.63	Peak	61.00	150	Vertical	N/A
3**	5246.250	94.96	-3.00	--	94.96	AV	61.00	150	Vertical	N/A
4	8299.487	48.76	-4.24	74.0	-25.24	Peak	151.00	150	Vertical	Pass
4**	8299.487	39.35	-4.24	54.0	-14.65	AV	151.00	150	Vertical	Pass
5	11915.425	48.79	-3.06	74.0	-25.21	Peak	118.00	150	Vertical	Pass
5**	11915.425	40.14	-3.06	54.0	-13.86	AV	118.00	150	Vertical	Pass
6	16133.363	52.58	-0.61	74.0	-21.42	Peak	158.00	150	Vertical	Pass
6**	16133.363	42.34	-0.61	54.0	-11.66	AV	158.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.700	44.68	-18.11	74.0	-29.32	Peak	148.00	150	Horizontal	Pass
1**	1121.700	37.79	-18.11	54.0	-16.21	AV	148.00	150	Horizontal	Pass
2	3736.000	46.57	-6.68	74.0	-27.43	Peak	108.00	150	Horizontal	Pass
2**	3736.000	36.78	-6.68	54.0	-17.22	AV	108.00	150	Horizontal	Pass
3	5185.750	106.73	-2.72	--	-12.27	Peak	119.00	150	Horizontal	N/A
3**	5185.750	99.45	-2.72	--	99.45	AV	119.00	150	Horizontal	N/A
4	8293.313	48.66	-4.32	74.0	-25.34	Peak	134.00	150	Horizontal	Pass
4**	8293.313	39.90	-4.32	54.0	-14.10	AV	134.00	150	Horizontal	Pass
5	11735.162	48.49	-3.53	74.0	-25.51	Peak	202.00	150	Horizontal	Pass
5**	11735.162	38.56	-3.53	54.0	-15.44	AV	202.00	150	Horizontal	Pass
6	16095.300	51.22	-1.68	74.0	-22.78	Peak	328.00	150	Horizontal	Pass
6**	16095.300	41.97	-1.68	54.0	-12.03	AV	328.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1118.900	40.83	-18.10	74.0	-33.17	Peak	320.00	150	Vertical	Pass
1**	1118.900	31.51	-18.10	54.0	-22.49	AV	320.00	150	Vertical	Pass
2	2757.900	42.73	-11.11	74.0	-31.27	Peak	63.00	150	Vertical	Pass
2**	2757.900	33.19	-11.11	54.0	-20.81	AV	63.00	150	Vertical	Pass
3	5186.750	101.09	-2.73	--	32.09	Peak	69.00	150	Vertical	N/A
3**	5186.750	92.57	-2.73	--	92.57	AV	69.00	150	Vertical	N/A
4	8139.175	48.92	-4.06	74.0	-25.08	Peak	129.00	150	Vertical	Pass
4**	8139.175	39.57	-4.06	54.0	-14.43	AV	129.00	150	Vertical	Pass
5	11771.737	48.89	-3.52	74.0	-25.11	Peak	341.00	150	Vertical	Pass
5**	11771.737	40.09	-3.52	54.0	-13.91	AV	341.00	150	Vertical	Pass
6	17916.525	52.93	1.28	74.0	-21.07	Peak	342.00	150	Vertical	Pass
6**	17916.525	43.20	1.28	54.0	-10.80	AV	342.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.700	44.49	-18.17	74.0	-29.51	Peak	155.00	150	Horizontal	Pass
1**	1122.700	36.83	-18.17	54.0	-17.17	AV	155.00	150	Horizontal	Pass
2	3787.500	47.72	-6.41	74.0	-26.28	Peak	232.00	150	Horizontal	Pass
2**	3787.500	39.24	-6.41	54.0	-14.76	AV	232.00	150	Horizontal	Pass
3	5222.500	106.63	-3.68	--	-12.37	Peak	119.00	150	Horizontal	N/A
3**	5222.500	99.62	-3.68	--	99.62	AV	119.00	150	Horizontal	N/A
4	8242.250	47.94	-4.57	74.0	-26.06	Peak	228.00	150	Horizontal	Pass
4**	8242.250	39.60	-4.57	54.0	-14.40	AV	228.00	150	Horizontal	Pass
5	11901.650	48.99	-2.54	74.0	-25.01	Peak	215.00	150	Horizontal	Pass
5**	11901.650	39.88	-2.54	54.0	-14.12	AV	215.00	150	Horizontal	Pass
6	17938.573	52.32	0.98	74.0	-21.68	Peak	39.00	150	Horizontal	Pass
6**	17938.573	43.10	0.98	54.0	-10.90	AV	39.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1123.100	40.16	-18.20	74.0	-33.84	Peak	319.00	150	Vertical	Pass
1**	1123.100	31.61	-18.20	54.0	-22.39	AV	319.00	150	Vertical	Pass
2	3942.250	47.74	-5.80	74.0	-26.26	Peak	201.00	150	Vertical	Pass
2**	3942.250	38.39	-5.80	54.0	-15.61	AV	201.00	150	Vertical	Pass
3	5215.250	101.39	-3.53	--	33.39	Peak	68.00	150	Vertical	N/A
3**	5215.250	93.09	-3.53	--	93.09	AV	68.00	150	Vertical	N/A
4	8202.588	48.86	-4.03	74.0	-25.14	Peak	360.00	150	Vertical	Pass
4**	8202.588	39.06	-4.03	54.0	-14.94	AV	360.00	150	Vertical	Pass
5	11912.813	48.99	-2.96	74.0	-25.01	Peak	201.00	150	Vertical	Pass
5**	11912.813	39.80	-2.96	54.0	-14.20	AV	201.00	150	Vertical	Pass
6	17918.099	52.67	1.25	74.0	-21.33	Peak	10.00	150	Vertical	Pass
6**	17918.099	43.19	1.25	54.0	-10.81	AV	10.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.300	45.09	-18.14	74.0	-28.91	Peak	157.00	150	Horizontal	Pass
1**	1122.300	36.99	-18.14	54.0	-17.01	AV	157.00	150	Horizontal	Pass
2	3897.000	47.75	-6.10	74.0	-26.25	Peak	360.00	150	Horizontal	Pass
2**	3897.000	37.72	-6.10	54.0	-16.28	AV	360.00	150	Horizontal	Pass
3	5244.500	107.16	-2.97	--	-21.84	Peak	129.00	150	Horizontal	N/A
3**	5244.500	99.75	-2.97	--	99.75	AV	129.00	150	Horizontal	N/A
4	8216.125	48.68	-4.06	74.0	-25.32	Peak	360.00	150	Horizontal	Pass
4**	8216.125	39.64	-4.06	54.0	-14.36	AV	360.00	150	Horizontal	Pass
5	10873.513	49.25	-4.31	74.0	-24.75	Peak	254.00	150	Horizontal	Pass
5**	10873.513	40.29	-4.31	54.0	-13.71	AV	254.00	150	Horizontal	Pass
6	15938.850	51.18	-0.31	74.0	-22.82	Peak	146.00	150	Horizontal	Pass
6**	15938.850	42.36	-0.31	54.0	-11.64	AV	146.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.800	39.92	-18.04	74.0	-34.08	Peak	318.00	150	Vertical	Pass
1**	1119.800	30.66	-18.04	54.0	-23.34	AV	318.00	150	Vertical	Pass
2	3751.500	47.44	-6.36	74.0	-26.56	Peak	346.00	150	Vertical	Pass
2**	3751.500	37.62	-6.36	54.0	-16.38	AV	346.00	150	Vertical	Pass
3	5245.750	102.66	-3.00	--	32.66	Peak	70.00	150	Vertical	N/A
3**	5245.750	94.16	-3.00	--	94.16	AV	70.00	150	Vertical	N/A
4	8373.588	48.85	-4.34	74.0	-25.15	Peak	53.00	150	Vertical	Pass
4**	8373.588	40.06	-4.34	54.0	-13.94	AV	53.00	150	Vertical	Pass
5	12517.012	49.96	-2.81	74.0	-24.04	Peak	162.00	150	Vertical	Pass
5**	12517.012	40.34	-2.81	54.0	-13.66	AV	162.00	150	Vertical	Pass
6	16125.487	51.80	-0.86	74.0	-22.20	Peak	163.00	150	Vertical	Pass
6**	16125.487	42.74	-0.86	54.0	-11.26	AV	163.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.700	44.23	-18.05	74.0	-29.77	Peak	149.00	150	Horizontal	Pass
1**	1119.700	37.48	-18.05	54.0	-16.52	AV	149.00	150	Horizontal	Pass
2	3972.750	47.37	-5.81	74.0	-26.63	Peak	263.00	150	Horizontal	Pass
2**	3972.750	38.21	-5.81	54.0	-15.79	AV	263.00	150	Horizontal	Pass
3	5188.000	104.14	-2.75	--	-14.86	Peak	119.00	150	Horizontal	N/A
3**	5188.000	95.73	-2.75	--	95.73	AV	119.00	150	Horizontal	N/A
4	8265.525	48.97	-4.89	74.0	-25.03	Peak	310.00	150	Horizontal	Pass
4**	8265.525	39.57	-4.89	54.0	-14.43	AV	310.00	150	Horizontal	Pass
5	11897.138	49.53	-2.55	74.0	-24.47	Peak	149.00	150	Horizontal	Pass
5**	11897.138	40.11	-2.55	54.0	-13.89	AV	149.00	150	Horizontal	Pass
6	17974.536	51.87	1.17	74.0	-22.13	Peak	273.00	150	Horizontal	Pass
6**	17974.536	43.18	1.17	54.0	-10.82	AV	273.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1120.300	40.53	-18.05	74.0	-33.47	Peak	325.00	150	Vertical	Pass
1**	1120.300	30.72	-18.05	54.0	-23.28	AV	325.00	150	Vertical	Pass
2	4006.750	47.31	-5.69	74.0	-26.69	Peak	355.00	150	Vertical	Pass
2**	4006.750	38.11	-5.69	54.0	-15.89	AV	355.00	150	Vertical	Pass
3	5207.000	98.01	-2.79	--	30.01	Peak	68.00	150	Vertical	N/A
3**	5207.000	90.44	-2.79	--	90.44	AV	68.00	150	Vertical	N/A
4	8250.800	50.02	-4.46	74.0	-23.98	Peak	136.00	150	Vertical	Pass
4**	8250.800	39.35	-4.46	54.0	-14.65	AV	136.00	150	Vertical	Pass
5	11912.575	49.49	-2.95	74.0	-24.51	Peak	360.00	150	Vertical	Pass
5**	11912.575	39.87	-2.95	54.0	-14.13	AV	360.00	150	Vertical	Pass
6	15931.500	51.36	-0.49	74.0	-22.64	Peak	217.00	150	Vertical	Pass
6**	15931.500	42.67	-0.49	54.0	-11.33	AV	217.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1123.300	44.39	-18.22	74.0	-29.61	Peak	156.00	150	Horizontal	Pass
1**	1123.300	37.27	-18.22	54.0	-16.73	AV	156.00	150	Horizontal	Pass
2	3720.000	47.35	-6.84	74.0	-26.65	Peak	323.00	150	Horizontal	Pass
2**	3720.000	37.83	-6.84	54.0	-16.17	AV	323.00	150	Horizontal	Pass
3	5238.500	104.89	-2.69	--	-14.11	Peak	119.00	150	Horizontal	N/A
3**	5238.500	96.82	-2.69	--	96.82	AV	119.00	150	Horizontal	N/A
4	8291.175	48.10	-4.57	74.0	-25.90	Peak	81.00	150	Horizontal	Pass
4**	8291.175	39.30	-4.57	54.0	-14.70	AV	81.00	150	Horizontal	Pass
5	11522.362	49.01	-4.36	74.0	-24.99	Peak	296.00	150	Horizontal	Pass
5**	11522.362	39.45	-4.36	54.0	-14.55	AV	296.00	150	Horizontal	Pass
6	17830.687	53.03	0.78	74.0	-20.97	Peak	65.00	150	Horizontal	Pass
6**	17830.687	43.40	0.78	54.0	-10.60	AV	65.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1123.000	39.83	-18.20	74.0	-34.17	Peak	312.00	150	Vertical	Pass
1**	1123.000	31.18	-18.20	54.0	-22.82	AV	312.00	150	Vertical	Pass
2	3742.500	47.05	-6.49	74.0	-26.95	Peak	360.00	150	Vertical	Pass
2**	3742.500	37.25	-6.49	54.0	-16.75	AV	360.00	150	Vertical	Pass
3	5241.000	98.66	-2.74	--	20.66	Peak	78.00	150	Vertical	N/A
3**	5241.000	90.42	-2.74	--	90.42	AV	78.00	150	Vertical	N/A
4	8251.275	49.58	-4.42	74.0	-24.42	Peak	187.00	150	Vertical	Pass
4**	8251.275	39.33	-4.42	54.0	-14.67	AV	187.00	150	Vertical	Pass
5	11702.862	48.66	-3.70	74.0	-25.34	Peak	24.00	150	Vertical	Pass
5**	11702.862	39.91	-3.70	54.0	-14.09	AV	24.00	150	Vertical	Pass
6	17889.489	51.70	1.36	74.0	-22.30	Peak	107.00	150	Vertical	Pass
6**	17889.489	42.58	1.36	54.0	-11.42	AV	107.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.800	44.33	-18.22	74.0	-29.67	Peak	149.00	150	Horizontal	Pass
1**	1124.800	34.80	-18.22	54.0	-19.20	AV	149.00	150	Horizontal	Pass
2	3676.000	48.03	-6.83	74.0	-25.97	Peak	303.00	150	Horizontal	Pass
2**	3676.000	37.63	-6.83	54.0	-16.37	AV	303.00	150	Horizontal	Pass
3	5183.250	106.82	-2.48	--	-11.18	Peak	118.00	150	Horizontal	N/A
3**	5183.250	98.99	-2.48	--	98.99	AV	118.00	150	Horizontal	N/A
4	8072.675	49.53	-3.49	74.0	-24.47	Peak	0.00	150	Horizontal	Pass
4**	8072.675	40.60	-3.49	54.0	-13.40	AV	0.00	150	Horizontal	Pass
5	11744.187	48.53	-3.48	74.0	-25.47	Peak	284.00	150	Horizontal	Pass
5**	11744.187	38.79	-3.48	54.0	-15.21	AV	284.00	150	Horizontal	Pass
6	17974.012	52.50	1.16	74.0	-21.50	Peak	202.00	150	Horizontal	Pass
6**	17974.012	43.30	1.16	54.0	-10.70	AV	202.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.000	39.51	-18.09	74.0	-34.49	Peak	318.00	150	Vertical	Pass
1**	1119.000	29.26	-18.09	54.0	-24.74	AV	318.00	150	Vertical	Pass
2	3733.500	46.71	-6.90	74.0	-27.29	Peak	211.00	150	Vertical	Pass
2**	3733.500	37.28	-6.90	54.0	-16.72	AV	211.00	150	Vertical	Pass
3	5180.750	99.72	-2.61	--	21.72	Peak	78.00	150	Vertical	N/A
3**	5180.750	91.87	-2.61	--	91.87	AV	78.00	150	Vertical	N/A
4	8297.350	49.84	-4.27	74.0	-24.16	Peak	162.00	150	Vertical	Pass
4**	8297.350	39.78	-4.27	54.0	-14.22	AV	162.00	150	Vertical	Pass
5	11524.975	48.51	-4.44	74.0	-25.49	Peak	0.00	150	Vertical	Pass
5**	11524.975	38.96	-4.44	54.0	-15.04	AV	0.00	150	Vertical	Pass
6	15988.463	51.70	-0.60	74.0	-22.30	Peak	24.00	150	Vertical	Pass
6**	15988.463	41.86	-0.60	54.0	-12.14	AV	24.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.200	45.19	-18.08	74.0	-28.81	Peak	154.00	150	Horizontal	Pass
1**	1119.200	34.88	-18.08	54.0	-19.12	AV	154.00	150	Horizontal	Pass
2	3812.250	46.65	-5.72	74.0	-27.35	Peak	262.00	150	Horizontal	Pass
2**	3812.250	37.96	-5.72	54.0	-16.04	AV	262.00	150	Horizontal	Pass
3	5214.500	106.11	-3.44	--	-12.89	Peak	119.00	150	Horizontal	N/A
3**	5214.500	97.62	-3.44	--	97.62	AV	119.00	150	Horizontal	N/A
4	8250.325	49.19	-4.50	74.0	-24.81	Peak	0.00	150	Horizontal	Pass
4**	8250.325	39.18	-4.50	54.0	-14.82	AV	0.00	150	Horizontal	Pass
5	11524.263	48.95	-4.42	74.0	-25.05	Peak	351.00	150	Horizontal	Pass
5**	11524.263	39.12	-4.42	54.0	-14.88	AV	351.00	150	Horizontal	Pass
6	17870.324	51.96	1.12	74.0	-22.04	Peak	360.00	150	Horizontal	Pass
6**	17870.324	41.76	1.12	54.0	-12.24	AV	360.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.900	39.72	-18.04	74.0	-34.28	Peak	319.00	150	Vertical	Pass
1**	1119.900	30.72	-18.04	54.0	-23.28	AV	319.00	150	Vertical	Pass
2	3817.500	46.78	-5.87	74.0	-27.22	Peak	109.00	150	Vertical	Pass
2**	3817.500	37.45	-5.87	54.0	-16.55	AV	109.00	150	Vertical	Pass
3	5226.250	100.02	-3.73	--	-18.98	Peak	119.00	150	Vertical	N/A
3**	5226.250	92.25	-3.73	--	92.25	AV	119.00	150	Vertical	N/A
4	8297.112	49.08	-4.28	74.0	-24.92	Peak	215.00	150	Vertical	Pass
4**	8297.112	39.64	-4.28	54.0	-14.36	AV	215.00	150	Vertical	Pass
5	11919.225	49.35	-3.20	74.0	-24.65	Peak	135.00	150	Vertical	Pass
5**	11919.225	40.01	-3.20	54.0	-13.99	AV	135.00	150	Vertical	Pass
6	15946.988	52.08	-0.11	74.0	-21.92	Peak	344.00	150	Vertical	Pass
6**	15946.988	43.13	-0.11	54.0	-10.87	AV	344.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.700	45.13	-18.05	74.0	-28.87	Peak	149.00	150	Horizontal	Pass
1**	1119.700	36.30	-18.05	54.0	-17.70	AV	149.00	150	Horizontal	Pass
2	3752.250	47.46	-6.28	74.0	-26.54	Peak	109.00	150	Horizontal	Pass
2**	3752.250	38.29	-6.28	54.0	-15.71	AV	109.00	150	Horizontal	Pass
3	5234.500	106.19	-2.81	--	-22.81	Peak	129.00	150	Horizontal	N/A
3**	5234.500	98.41	-2.81	--	98.41	AV	129.00	150	Horizontal	N/A
4	8307.088	49.51	-4.76	74.0	-24.49	Peak	122.00	150	Horizontal	Pass
4**	8307.088	39.50	-4.76	54.0	-14.50	AV	122.00	150	Horizontal	Pass
5	11897.375	49.31	-2.54	74.0	-24.69	Peak	149.00	150	Horizontal	Pass
5**	11897.375	40.10	-2.54	54.0	-13.90	AV	149.00	150	Horizontal	Pass
6	17889.489	52.28	1.36	74.0	-21.72	Peak	120.00	150	Horizontal	Pass
6**	17889.489	43.04	1.36	54.0	-10.96	AV	120.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1120.400	39.98	-18.05	74.0	-34.02	Peak	299.00	150	Vertical	Pass
1**	1120.400	31.37	-18.05	54.0	-22.63	AV	299.00	150	Vertical	Pass
2	3811.250	47.56	-5.76	74.0	-26.44	Peak	360.00	150	Vertical	Pass
2**	3811.250	38.47	-5.76	54.0	-15.53	AV	360.00	150	Vertical	Pass
3	5241.750	101.10	-2.78	--	33.10	Peak	68.00	150	Vertical	N/A
3**	5241.750	94.06	-2.78	--	94.06	AV	68.00	150	Vertical	N/A
4	8300.912	48.59	-4.21	74.0	-25.41	Peak	92.00	150	Vertical	Pass
4**	8300.912	39.82	-4.21	54.0	-14.18	AV	92.00	150	Vertical	Pass
5	11898.087	49.56	-2.53	74.0	-24.44	Peak	92.00	150	Vertical	Pass
5**	11898.087	39.51	-2.53	54.0	-14.49	AV	92.00	150	Vertical	Pass
6	15912.600	51.09	-0.94	74.0	-22.91	Peak	36.00	150	Vertical	Pass
6**	15912.600	42.32	-0.94	54.0	-11.68	AV	36.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.800	45.14	-18.11	74.0	-28.86	Peak	155.00	150	Horizontal	Pass
1**	1121.800	38.38	-18.11	54.0	-15.62	AV	155.00	150	Horizontal	Pass
2	2800.500	43.71	-10.69	74.0	-30.29	Peak	90.00	150	Horizontal	Pass
2**	2800.500	38.06	-10.69	54.0	-15.94	AV	90.00	150	Horizontal	Pass
3	5186.750	104.21	-2.73	--	-13.79	Peak	118.00	150	Horizontal	N/A
3**	5186.750	96.47	-2.73	--	96.47	AV	118.00	150	Horizontal	N/A
4	8299.487	48.55	-4.24	74.0	-25.45	Peak	54.00	150	Horizontal	Pass
4**	8299.487	39.70	-4.24	54.0	-14.30	AV	54.00	150	Horizontal	Pass
5	11926.825	49.09	-3.49	74.0	-24.91	Peak	269.00	150	Horizontal	Pass
5**	11926.825	39.73	-3.49	54.0	-14.27	AV	269.00	150	Horizontal	Pass
6	17906.813	52.64	1.41	74.0	-21.36	Peak	94.00	150	Horizontal	Pass
6**	17906.813	43.84	1.41	54.0	-10.16	AV	94.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.800	40.88	-18.18	74.0	-33.12	Peak	319.00	150	Vertical	Pass
1**	1122.800	31.14	-18.18	54.0	-22.86	AV	319.00	150	Vertical	Pass
2	2781.400	42.36	-10.88	74.0	-31.64	Peak	116.00	150	Vertical	Pass
2**	2781.400	32.73	-10.88	54.0	-21.27	AV	116.00	150	Vertical	Pass
3	5206.500	98.98	-2.83	--	31.98	Peak	67.00	150	Vertical	N/A
3**	5206.500	91.25	-2.83	--	91.25	AV	67.00	150	Vertical	N/A
4	8294.500	48.38	-4.25	74.0	-25.62	Peak	144.00	150	Vertical	Pass
4**	8294.500	39.98	-4.25	54.0	-14.02	AV	144.00	150	Vertical	Pass
5	11906.875	49.64	-2.73	74.0	-24.36	Peak	227.00	150	Vertical	Pass
5**	11906.875	39.76	-2.73	54.0	-14.24	AV	227.00	150	Vertical	Pass
6	15906.300	51.14	-1.09	74.0	-22.86	Peak	10.00	150	Vertical	Pass
6**	15906.300	41.67	-1.09	54.0	-12.33	AV	10.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.200	45.50	-18.09	74.0	-28.50	Peak	155.00	150	Horizontal	Pass
1**	1121.200	39.37	-18.09	54.0	-14.63	AV	155.00	150	Horizontal	Pass
2	3780.250	47.55	-6.05	74.0	-26.45	Peak	231.00	150	Horizontal	Pass
2**	3780.250	37.67	-6.05	54.0	-16.33	AV	231.00	150	Horizontal	Pass
3	5239.000	104.70	-2.70	--	-13.30	Peak	118.00	150	Horizontal	N/A
3**	5239.000	95.65	-2.70	--	95.65	AV	118.00	150	Horizontal	N/A
4	8293.313	48.80	-4.32	74.0	-25.20	Peak	204.00	150	Horizontal	Pass
4**	8293.313	39.61	-4.32	54.0	-14.39	AV	204.00	150	Horizontal	Pass
5	11922.312	49.34	-3.32	74.0	-24.66	Peak	284.00	150	Horizontal	Pass
5**	11922.312	39.46	-3.32	54.0	-14.54	AV	284.00	150	Horizontal	Pass
6	17928.073	51.87	1.12	74.0	-22.13	Peak	93.00	150	Horizontal	Pass
6**	17928.073	43.71	1.12	54.0	-10.29	AV	93.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.400	40.27	-18.09	74.0	-33.73	Peak	318.00	150	Vertical	Pass
1**	1121.400	30.55	-18.09	54.0	-23.45	AV	318.00	150	Vertical	Pass
2	3812.250	46.88	-5.72	74.0	-27.12	Peak	326.00	150	Vertical	Pass
2**	3812.250	37.97	-5.72	54.0	-16.03	AV	326.00	150	Vertical	Pass
3	5234.500	98.68	-2.81	--	28.68	Peak	70.00	150	Vertical	N/A
3**	5234.500	91.68	-2.81	--	91.68	AV	70.00	150	Vertical	N/A
4	8337.250	48.07	-4.91	74.0	-25.93	Peak	360.00	150	Vertical	Pass
4**	8337.250	40.52	-4.91	54.0	-13.48	AV	360.00	150	Vertical	Pass
5	11781.474	48.89	-3.55	74.0	-25.11	Peak	0.00	150	Vertical	Pass
5**	11781.474	39.94	-3.55	54.0	-14.06	AV	0.00	150	Vertical	Pass
6	17956.950	52.30	0.92	74.0	-21.70	Peak	360.00	150	Vertical	Pass
6**	17956.950	42.75	0.92	54.0	-11.25	AV	360.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.500	45.69	-18.16	74.0	-28.31	Peak	149.00	150	Horizontal	Pass
1**	1122.500	39.08	-18.16	54.0	-14.92	AV	149.00	150	Horizontal	Pass
2	2771.600	42.27	-10.84	74.0	-31.73	Peak	318.00	150	Horizontal	Pass
2**	2771.600	33.20	-10.84	54.0	-20.80	AV	318.00	150	Horizontal	Pass
3	5189.750	101.56	-2.81	--	-18.44	Peak	120.00	150	Horizontal	N/A
3**	5189.750	93.87	-2.81	--	93.87	AV	120.00	150	Horizontal	N/A
4	8195.463	49.46	-3.66	74.0	-24.54	Peak	351.00	150	Horizontal	Pass
4**	8195.463	39.34	-3.66	54.0	-14.66	AV	351.00	150	Horizontal	Pass
5	11864.125	48.76	-3.46	74.0	-25.24	Peak	296.00	150	Horizontal	Pass
5**	11864.125	39.49	-3.46	54.0	-14.51	AV	296.00	150	Horizontal	Pass
6	16043.850	52.17	-1.52	74.0	-21.83	Peak	327.00	150	Horizontal	Pass
6**	16043.850	41.55	-1.52	54.0	-12.45	AV	327.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.100	40.31	-18.12	74.0	-33.69	Peak	312.00	150	Vertical	Pass
1**	1122.100	30.58	-18.12	54.0	-23.42	AV	312.00	150	Vertical	Pass
2	3901.750	47.48	-6.00	74.0	-26.52	Peak	119.00	150	Vertical	Pass
2**	3901.750	37.64	-6.00	54.0	-16.36	AV	119.00	150	Vertical	Pass
3	5235.250	96.83	-2.84	--	29.83	Peak	67.00	150	Vertical	N/A
3**	5235.250	88.71	-2.84	--	88.71	AV	67.00	150	Vertical	N/A
4	8073.388	50.62	-3.48	74.0	-23.38	Peak	55.00	150	Vertical	Pass
4**	8073.388	40.32	-3.48	54.0	-13.68	AV	55.00	150	Vertical	Pass
5	11928.487	48.90	-3.55	74.0	-25.10	Peak	13.00	150	Vertical	Pass
5**	11928.487	39.61	-3.55	54.0	-14.39	AV	13.00	150	Vertical	Pass
6	17840.927	52.38	0.82	74.0	-21.62	Peak	231.00	150	Vertical	Pass
6**	17840.927	42.93	0.82	54.0	-11.07	AV	231.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1123.200	44.86	-18.21	74.0	-29.14	Peak	155.00	150	Horizontal	Pass
1**	1123.200	36.84	-18.21	54.0	-17.16	AV	155.00	150	Horizontal	Pass
2	2799.900	42.63	-10.72	74.0	-31.37	Peak	188.00	150	Horizontal	Pass
2**	2799.900	33.29	-10.72	54.0	-20.71	AV	188.00	150	Horizontal	Pass
3	4246.000	47.89	-4.42	74.0	-26.11	Peak	48.00	150	Horizontal	Pass
3**	4246.000	39.73	-4.42	54.0	-14.27	AV	48.00	150	Horizontal	Pass
4	5741.500	106.59	-2.10	--	-12.41	Peak	119.00	150	Horizontal	N/A
4**	5741.500	98.41	-2.10	--	98.41	AV	119.00	150	Horizontal	N/A
5	12527.225	49.37	-2.89	74.0	-24.63	Peak	323.00	150	Horizontal	Pass
5**	12527.225	40.07	-2.89	54.0	-13.93	AV	323.00	150	Horizontal	Pass
6	17936.738	52.11	1.01	74.0	-21.89	Peak	79.00	150	Horizontal	Pass
6**	17936.738	43.35	1.01	54.0	-10.65	AV	79.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.400	40.97	-18.09	74.0	-33.03	Peak	311.00	150	Vertical	Pass
1**	1121.400	30.82	-18.09	54.0	-23.18	AV	311.00	150	Vertical	Pass
2	1498.400	38.87	-17.14	74.0	-35.13	Peak	360.00	150	Vertical	Pass
2**	1498.400	32.91	-17.14	54.0	-21.09	AV	360.00	150	Vertical	Pass
3	3788.750	47.84	-6.41	74.0	-26.16	Peak	222.00	150	Vertical	Pass
3**	3788.750	37.18	-6.41	54.0	-16.82	AV	222.00	150	Vertical	Pass
4	5740.000	101.25	-2.04	--	22.25	Peak	79.00	150	Vertical	N/A
4**	5740.000	93.09	-2.04	--	93.09	AV	79.00	150	Vertical	N/A
5	8299.725	49.14	-4.24	74.0	-24.86	Peak	284.00	150	Vertical	Pass
5**	8299.725	39.61	-4.24	54.0	-14.39	AV	284.00	150	Vertical	Pass
6	16000.012	50.42	-0.76	74.0	-23.58	Peak	0.00	150	Vertical	Pass
6**	16000.012	41.98	-0.76	54.0	-12.02	AV	0.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.700	48.19	-17.80	74.0	-25.81	Peak	259.00	150	Horizontal	Pass
1**	1199.700	45.36	-17.80	54.0	-8.64	AV	259.00	150	Horizontal	Pass
2	1393.500	42.46	-17.18	74.0	-31.54	Peak	207.00	150	Horizontal	Pass
2**	1393.500	32.29	-17.18	54.0	-21.71	AV	207.00	150	Horizontal	Pass
3	2826.300	43.90	-10.85	74.0	-30.10	Peak	201.00	150	Horizontal	Pass
3**	2826.300	34.32	-10.85	54.0	-19.68	AV	201.00	150	Horizontal	Pass
4	5791.000	106.65	-2.55	--	-12.35	Peak	119.00	150	Horizontal	N/A
4**	5791.000	98.15	-2.55	--	98.15	AV	119.00	150	Horizontal	N/A
5	10788.963	49.09	-4.97	74.0	-24.91	Peak	203.00	150	Horizontal	Pass
5**	10788.963	40.19	-4.97	54.0	-13.81	AV	203.00	150	Horizontal	Pass
6	16107.900	51.13	-1.43	74.0	-22.87	Peak	302.00	150	Horizontal	Pass
6**	16107.900	41.50	-1.43	54.0	-12.50	AV	302.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.100	47.16	-17.85	74.0	-26.84	Peak	103.00	150	Vertical	Pass
1**	1200.100	45.42	-17.85	54.0	-8.58	AV	103.00	150	Vertical	Pass
2	1499.000	40.65	-17.15	74.0	-33.35	Peak	358.00	150	Vertical	Pass
2**	1499.000	34.66	-17.15	54.0	-19.34	AV	358.00	150	Vertical	Pass
3	2811.300	42.53	-10.48	74.0	-31.47	Peak	149.00	150	Vertical	Pass
3**	2811.300	34.15	-10.48	54.0	-19.85	AV	149.00	150	Vertical	Pass
4	5780.750	102.31	-2.76	--	24.31	Peak	78.00	150	Vertical	N/A
4**	5780.750	94.16	-2.76	--	94.16	AV	78.00	150	Vertical	N/A
5	10879.925	49.27	-4.45	74.0	-24.73	Peak	105.00	150	Vertical	Pass
5**	10879.925	39.66	-4.45	54.0	-14.34	AV	105.00	150	Vertical	Pass
6	15953.025	52.77	-0.09	74.0	-21.23	Peak	314.00	150	Vertical	Pass
6**	15953.025	42.26	-0.09	54.0	-11.74	AV	314.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.000	45.19	-18.12	74.0	-28.81	Peak	156.00	150	Horizontal	Pass
1**	1122.000	38.60	-18.12	54.0	-15.40	AV	156.00	150	Horizontal	Pass
2	2831.100	43.00	-10.95	74.0	-31.00	Peak	313.00	150	Horizontal	Pass
2**	2831.100	32.95	-10.95	54.0	-21.05	AV	313.00	150	Horizontal	Pass
3	4339.250	48.49	-5.06	74.0	-25.51	Peak	325.00	150	Horizontal	Pass
3**	4339.250	39.45	-5.06	54.0	-14.55	AV	325.00	150	Horizontal	Pass
4	5822.000	106.52	-2.26	--	-12.48	Peak	119.00	150	Horizontal	N/A
4**	5822.000	99.49	-2.26	--	99.49	AV	119.00	150	Horizontal	N/A
5	11782.425	48.91	-3.55	74.0	-25.09	Peak	92.00	150	Horizontal	Pass
5**	11782.425	40.10	-3.55	54.0	-13.90	AV	92.00	150	Horizontal	Pass
6	17962.988	52.89	1.01	74.0	-21.11	Peak	232.00	150	Horizontal	Pass
6**	17962.988	43.47	1.01	54.0	-10.53	AV	232.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.500	40.58	-18.16	74.0	-33.42	Peak	312.00	150	Vertical	Pass
1**	1122.500	31.86	-18.16	54.0	-22.14	AV	312.00	150	Vertical	Pass
2	2761.000	42.59	-11.15	74.0	-31.41	Peak	125.00	150	Vertical	Pass
2**	2761.000	33.82	-11.15	54.0	-20.18	AV	125.00	150	Vertical	Pass
3	4319.250	48.44	-5.26	74.0	-25.56	Peak	360.00	150	Vertical	Pass
3**	4319.250	39.83	-5.26	54.0	-14.17	AV	360.00	150	Vertical	Pass
4	5821.250	102.72	-2.15	--	26.72	Peak	76.00	150	Vertical	N/A
4**	5821.250	94.50	-2.15	--	94.50	AV	76.00	150	Vertical	N/A
5	11913.050	49.22	-2.97	74.0	-24.78	Peak	337.00	150	Vertical	Pass
5**	11913.050	40.34	-2.97	54.0	-13.66	AV	337.00	150	Vertical	Pass
6	17935.688	51.49	1.02	74.0	-22.51	Peak	202.00	150	Vertical	Pass
6**	17935.688	43.33	1.02	54.0	-10.67	AV	202.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.200	45.26	-18.13	74.0	-28.74	Peak	152.00	150	Horizontal	Pass
1**	1122.200	37.63	-18.13	54.0	-16.37	AV	152.00	150	Horizontal	Pass
2	2768.800	42.78	-10.85	74.0	-31.22	Peak	117.00	150	Horizontal	Pass
2**	2768.800	34.09	-10.85	54.0	-19.91	AV	117.00	150	Horizontal	Pass
3	4700.500	50.29	-3.60	74.0	-23.71	Peak	189.00	150	Horizontal	Pass
3**	4700.500	40.90	-3.60	54.0	-13.10	AV	189.00	150	Horizontal	Pass
4	5738.250	105.61	-2.12	--	-11.39	Peak	117.00	150	Horizontal	N/A
4**	5738.250	97.78	-2.12	--	97.78	AV	117.00	150	Horizontal	N/A
5	11781.000	49.04	-3.54	74.0	-24.96	Peak	26.00	150	Horizontal	Pass
5**	11781.000	39.66	-3.54	54.0	-14.34	AV	26.00	150	Horizontal	Pass
6	17989.501	52.68	1.37	74.0	-21.32	Peak	0.00	150	Horizontal	Pass
6**	17989.501	42.12	1.37	54.0	-11.88	AV	0.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1110.900	40.46	-18.29	74.0	-33.54	Peak	303.00	150	Vertical	Pass
1**	1110.900	28.85	-18.29	54.0	-25.15	AV	303.00	150	Vertical	Pass
2	2810.300	43.91	-10.46	74.0	-30.09	Peak	268.00	150	Vertical	Pass
2**	2810.300	34.04	-10.46	54.0	-19.96	AV	268.00	150	Vertical	Pass
3	4681.500	51.15	-4.02	74.0	-22.85	Peak	95.00	150	Vertical	Pass
3**	4681.500	41.06	-4.02	54.0	-12.94	AV	95.00	150	Vertical	Pass
4	5739.000	101.17	-2.07	--	26.17	Peak	75.00	150	Vertical	N/A
4**	5739.000	93.35	-2.07	--	93.35	AV	75.00	150	Vertical	N/A
5	11907.826	48.70	-2.77	74.0	-25.30	Peak	122.00	150	Vertical	Pass
5**	11907.826	39.99	-2.77	54.0	-14.01	AV	122.00	150	Vertical	Pass
6	17997.113	51.90	1.48	74.0	-22.10	Peak	105.00	150	Vertical	Pass
6**	17997.113	42.42	1.48	54.0	-11.58	AV	105.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1120.900	45.40	-18.07	74.0	-28.60	Peak	152.00	150	Horizontal	Pass
1**	1120.900	36.83	-18.07	54.0	-17.17	AV	152.00	150	Horizontal	Pass
2	2822.700	43.39	-10.88	74.0	-30.61	Peak	162.00	150	Horizontal	Pass
2**	2822.700	33.23	-10.88	54.0	-20.77	AV	162.00	150	Horizontal	Pass
3	4670.500	50.62	-4.40	74.0	-23.38	Peak	360.00	150	Horizontal	Pass
3**	4670.500	39.87	-4.40	54.0	-14.13	AV	360.00	150	Horizontal	Pass
4	5779.250	104.61	-2.60	--	-12.39	Peak	117.00	150	Horizontal	N/A
4**	5779.250	97.72	-2.60	--	97.72	AV	117.00	150	Horizontal	N/A
5	11907.112	49.29	-2.74	74.0	-24.71	Peak	94.00	150	Horizontal	Pass
5**	11907.112	40.57	-2.74	54.0	-13.43	AV	94.00	150	Horizontal	Pass
6	17873.738	51.88	1.16	74.0	-22.12	Peak	362.00	150	Horizontal	Pass
6**	17873.738	42.25	1.16	54.0	-11.75	AV	362.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1118.000	39.51	-18.16	74.0	-34.49	Peak	321.00	150	Vertical	Pass
1**	1118.000	30.13	-18.16	54.0	-23.87	AV	321.00	150	Vertical	Pass
2	2808.800	42.83	-10.43	74.0	-31.17	Peak	357.00	150	Vertical	Pass
2**	2808.800	33.37	-10.43	54.0	-20.63	AV	357.00	150	Vertical	Pass
3	4808.250	51.00	-3.27	74.0	-23.00	Peak	179.00	150	Vertical	Pass
3**	4808.250	40.97	-3.27	54.0	-13.03	AV	179.00	150	Vertical	Pass
4	5778.250	101.04	-2.49	--	25.04	Peak	76.00	150	Vertical	N/A
4**	5778.250	92.66	-2.49	--	92.66	AV	76.00	150	Vertical	N/A
5	11896.662	49.37	-2.56	74.0	-24.63	Peak	80.00	150	Vertical	Pass
5**	11896.662	39.42	-2.56	54.0	-14.58	AV	80.00	150	Vertical	Pass
6	17977.950	52.37	1.21	74.0	-21.63	Peak	88.00	150	Vertical	Pass
6**	17977.950	42.68	1.21	54.0	-11.32	AV	88.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.000	44.93	-18.09	74.0	-29.07	Peak	152.00	150	Horizontal	Pass
1**	1119.000	34.53	-18.09	54.0	-19.47	AV	152.00	150	Horizontal	Pass
2	2753.800	42.64	-11.17	74.0	-31.36	Peak	286.00	150	Horizontal	Pass
2**	2753.800	33.00	-11.17	54.0	-21.00	AV	286.00	150	Horizontal	Pass
3	4249.250	48.96	-4.33	74.0	-25.04	Peak	331.00	150	Horizontal	Pass
3**	4249.250	38.97	-4.33	54.0	-15.03	AV	331.00	150	Horizontal	Pass
4	5823.250	105.04	-2.39	--	-10.96	Peak	116.00	150	Horizontal	N/A
4**	5823.250	96.57	-2.39	--	96.57	AV	116.00	150	Horizontal	N/A
5	11520.700	48.74	-4.31	74.0	-25.26	Peak	26.00	150	Horizontal	Pass
5**	11520.700	39.44	-4.31	54.0	-14.56	AV	26.00	150	Horizontal	Pass
6	17927.025	52.78	1.14	74.0	-21.22	Peak	88.00	150	Horizontal	Pass
6**	17927.025	43.29	1.14	54.0	-10.71	AV	88.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.300	40.37	-18.07	74.0	-33.63	Peak	311.00	150	Vertical	Pass
1**	1119.300	32.37	-18.07	54.0	-21.63	AV	311.00	150	Vertical	Pass
2	2756.100	42.91	-11.04	74.0	-31.09	Peak	91.00	150	Vertical	Pass
2**	2756.100	34.27	-11.04	54.0	-19.73	AV	91.00	150	Vertical	Pass
3	4247.250	48.66	-4.53	74.0	-25.34	Peak	35.00	150	Vertical	Pass
3**	4247.250	38.70	-4.53	54.0	-15.30	AV	35.00	150	Vertical	Pass
4	5818.000	101.23	-2.06	--	36.23	Peak	65.00	150	Vertical	N/A
4**	5818.000	93.53	-2.06	--	93.53	AV	65.00	150	Vertical	N/A
5	11150.200	49.03	-4.94	74.0	-24.97	Peak	323.00	150	Vertical	Pass
5**	11150.200	38.74	-4.94	54.0	-15.26	AV	323.00	150	Vertical	Pass
6	17827.537	52.04	0.77	74.0	-21.96	Peak	146.00	150	Vertical	Pass
6**	17827.537	43.60	0.77	54.0	-10.40	AV	146.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.300	42.95	-18.07	74.0	-31.05	Peak	158.00	150	Horizontal	Pass
1**	1119.300	33.57	-18.07	54.0	-20.43	AV	158.00	150	Horizontal	Pass
2	2818.000	42.82	-10.68	74.0	-31.18	Peak	44.00	150	Horizontal	Pass
2**	2818.000	33.99	-10.68	54.0	-20.01	AV	44.00	150	Horizontal	Pass
3	4256.000	49.18	-4.42	74.0	-24.82	Peak	-1.00	150	Horizontal	Pass
3**	4256.000	39.03	-4.42	54.0	-14.97	AV	-1.00	150	Horizontal	Pass
4	5737.750	102.95	-2.15	--	-18.05	Peak	121.00	150	Horizontal	N/A
4**	5737.750	94.20	-2.15	--	94.20	AV	121.00	150	Horizontal	N/A
5	11766.038	49.41	-3.50	74.0	-24.59	Peak	256.00	150	Horizontal	Pass
5**	11766.038	40.44	-3.50	54.0	-13.56	AV	256.00	150	Horizontal	Pass
6	17892.637	51.76	1.40	74.0	-22.24	Peak	0.00	150	Horizontal	Pass
6**	17892.637	42.64	1.40	54.0	-11.36	AV	0.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.100	41.22	-18.08	74.0	-32.78	Peak	297.00	150	Vertical	Pass
1**	1121.100	32.90	-18.08	54.0	-21.10	AV	297.00	150	Vertical	Pass
2	2705.300	43.46	-10.90	74.0	-30.54	Peak	14.00	150	Vertical	Pass
2**	2705.300	32.98	-10.90	54.0	-21.02	AV	14.00	150	Vertical	Pass
3	4691.000	50.56	-3.73	74.0	-23.44	Peak	360.00	150	Vertical	Pass
3**	4691.000	41.58	-3.73	54.0	-12.42	AV	360.00	150	Vertical	Pass
4	5766.250	99.08	-2.29	--	29.08	Peak	70.00	150	Vertical	N/A
4**	5766.250	90.20	-2.29	--	90.20	AV	70.00	150	Vertical	N/A
5	11903.549	49.39	-2.61	74.0	-24.61	Peak	0.00	150	Vertical	Pass
5**	11903.549	40.26	-2.61	54.0	-13.74	AV	0.00	150	Vertical	Pass
6	17998.426	52.00	1.50	74.0	-22.00	Peak	12.00	150	Vertical	Pass
6**	17998.426	42.38	1.50	54.0	-11.62	AV	12.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1120.100	42.81	-18.04	74.0	-31.19	Peak	148.00	150	Horizontal	Pass
1**	1120.100	34.97	-18.04	54.0	-19.03	AV	148.00	150	Horizontal	Pass
2	2812.100	42.93	-10.53	74.0	-31.07	Peak	211.00	150	Horizontal	Pass
2**	2812.100	33.88	-10.53	54.0	-20.12	AV	211.00	150	Horizontal	Pass
3	4362.500	49.03	-4.96	74.0	-24.97	Peak	130.00	150	Horizontal	Pass
3**	4362.500	39.59	-4.96	54.0	-14.41	AV	130.00	150	Horizontal	Pass
4	5809.500	102.18	-2.10	--	-18.82	Peak	121.00	150	Horizontal	N/A
4**	5809.500	93.85	-2.10	--	93.85	AV	121.00	150	Horizontal	N/A
5	11916.849	49.59	-3.11	74.0	-24.41	Peak	269.00	150	Horizontal	Pass
5**	11916.849	39.56	-3.11	54.0	-14.44	AV	269.00	150	Horizontal	Pass
6	17818.876	53.40	0.74	74.0	-20.60	Peak	259.00	150	Horizontal	Pass
6**	17818.876	42.50	0.74	54.0	-11.50	AV	259.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.000	41.35	-18.12	74.0	-32.65	Peak	296.00	150	Vertical	Pass
1**	1122.000	32.43	-18.12	54.0	-21.57	AV	296.00	150	Vertical	Pass
2	2864.100	43.20	-10.17	74.0	-30.80	Peak	146.00	150	Vertical	Pass
2**	2864.100	34.15	-10.17	54.0	-19.85	AV	146.00	150	Vertical	Pass
3	4291.000	48.58	-4.78	74.0	-25.42	Peak	79.00	150	Vertical	Pass
3**	4291.000	38.83	-4.78	54.0	-15.17	AV	79.00	150	Vertical	Pass
4	5803.250	99.23	-1.86	--	-20.77	Peak	120.00	150	Vertical	N/A
4**	5803.250	90.84	-1.86	--	90.84	AV	120.00	150	Vertical	N/A
5	11763.188	50.09	-3.49	74.0	-23.91	Peak	351.00	150	Vertical	Pass
5**	11763.188	40.18	-3.49	54.0	-13.82	AV	351.00	150	Vertical	Pass
6	17858.775	51.88	0.97	74.0	-22.12	Peak	257.00	150	Vertical	Pass
6**	17858.775	43.07	0.97	54.0	-10.93	AV	257.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.600	44.85	-18.16	74.0	-29.15	Peak	153.00	150	Horizontal	Pass
1**	1122.600	36.13	-18.16	54.0	-17.87	AV	153.00	150	Horizontal	Pass
2	2814.300	42.99	-10.65	74.0	-31.01	Peak	38.00	150	Horizontal	Pass
2**	2814.300	33.24	-10.65	54.0	-20.76	AV	38.00	150	Horizontal	Pass
3	4983.000	51.18	-3.34	74.0	-22.82	Peak	117.00	150	Horizontal	Pass
3**	4983.000	42.26	-3.34	54.0	-11.74	AV	117.00	150	Horizontal	Pass
4	5739.750	105.52	-2.03	--	-11.48	Peak	117.00	150	Horizontal	N/A
4**	5739.750	97.97	-2.03	--	97.97	AV	117.00	150	Horizontal	N/A
5	12529.125	49.41	-2.90	74.0	-24.59	Peak	105.00	150	Horizontal	Pass
5**	12529.125	40.41	-2.90	54.0	-13.59	AV	105.00	150	Horizontal	Pass
6	17812.312	52.29	0.71	74.0	-21.71	Peak	70.00	150	Horizontal	Pass
6**	17812.312	42.77	0.71	54.0	-11.23	AV	70.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1120.100	40.43	-18.04	74.0	-33.57	Peak	321.00	150	Vertical	Pass
1**	1120.100	31.51	-18.04	54.0	-22.49	AV	321.00	150	Vertical	Pass
2	2818.200	42.58	-10.69	74.0	-31.42	Peak	152.00	150	Vertical	Pass
2**	2818.200	34.07	-10.69	54.0	-19.93	AV	152.00	150	Vertical	Pass
3	4192.250	48.37	-5.30	74.0	-25.63	Peak	1.00	150	Vertical	Pass
3**	4192.250	38.98	-5.30	54.0	-15.02	AV	1.00	150	Vertical	Pass
4	5737.750	101.43	-2.15	--	25.43	Peak	76.00	150	Vertical	N/A
4**	5737.750	93.66	-2.15	--	93.66	AV	76.00	150	Vertical	N/A
5	11899.513	49.12	-2.49	74.0	-24.88	Peak	0.00	150	Vertical	Pass
5**	11899.513	40.24	-2.49	54.0	-13.76	AV	0.00	150	Vertical	Pass
6	17836.462	52.30	0.80	74.0	-21.70	Peak	362.00	150	Vertical	Pass
6**	17836.462	42.90	0.80	54.0	-11.10	AV	362.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1120.600	45.11	-18.06	74.0	-28.89	Peak	158.00	150	Horizontal	Pass
1**	1120.600	38.92	-18.06	54.0	-15.08	AV	158.00	150	Horizontal	Pass
2	2818.300	43.08	-10.69	74.0	-30.92	Peak	132.00	150	Horizontal	Pass
2**	2818.300	33.11	-10.69	54.0	-20.89	AV	132.00	150	Horizontal	Pass
3	4731.250	50.33	-3.52	74.0	-23.67	Peak	116.00	150	Horizontal	Pass
3**	4731.250	40.91	-3.52	54.0	-13.09	AV	116.00	150	Horizontal	Pass
4	5778.250	105.19	-2.49	--	-10.81	Peak	116.00	150	Horizontal	N/A
4**	5778.250	97.25	-2.49	--	97.25	AV	116.00	150	Horizontal	N/A
5	11776.963	49.17	-3.53	74.0	-24.83	Peak	229.00	150	Horizontal	Pass
5**	11776.963	39.43	-3.53	54.0	-14.57	AV	229.00	150	Horizontal	Pass
6	17996.849	53.06	1.48	74.0	-20.94	Peak	108.00	150	Horizontal	Pass
6**	17996.849	42.53	1.48	54.0	-11.47	AV	108.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.500	39.79	-18.26	74.0	-34.21	Peak	311.00	150	Vertical	Pass
1**	1124.500	29.00	-18.26	54.0	-25.00	AV	311.00	150	Vertical	Pass
2	2814.400	42.87	-10.65	74.0	-31.13	Peak	311.00	150	Vertical	Pass
2**	2814.400	33.94	-10.65	54.0	-20.06	AV	311.00	150	Vertical	Pass
3	4989.000	51.07	-3.28	74.0	-22.93	Peak	209.00	150	Vertical	Pass
3**	4989.000	41.91	-3.28	54.0	-12.09	AV	209.00	150	Vertical	Pass
4	5778.750	100.98	-2.54	--	24.98	Peak	76.00	150	Vertical	N/A
4**	5778.750	93.58	-2.54	--	93.58	AV	76.00	150	Vertical	N/A
5	11918.276	49.05	-3.17	74.0	-24.95	Peak	94.00	150	Vertical	Pass
5**	11918.276	39.84	-3.17	54.0	-14.16	AV	94.00	150	Vertical	Pass
6	17865.339	52.62	1.05	74.0	-21.38	Peak	126.00	150	Vertical	Pass
6**	17865.339	42.14	1.05	54.0	-11.86	AV	126.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1123.900	45.11	-18.27	74.0	-28.89	Peak	152.00	150	Horizontal	Pass
1**	1123.900	33.93	-18.27	54.0	-20.07	AV	152.00	150	Horizontal	Pass
2	2816.700	42.82	-10.67	74.0	-31.18	Peak	267.00	150	Horizontal	Pass
2**	2816.700	33.51	-10.67	54.0	-20.49	AV	267.00	150	Horizontal	Pass
3	4247.000	49.50	-4.51	74.0	-24.50	Peak	291.00	150	Horizontal	Pass
3**	4247.000	39.41	-4.51	54.0	-14.59	AV	291.00	150	Horizontal	Pass
4	5818.250	105.12	-2.03	--	-11.88	Peak	117.00	150	Horizontal	N/A
4**	5818.250	97.46	-2.03	--	97.46	AV	117.00	150	Horizontal	N/A
5	11789.550	49.15	-3.57	74.0	-24.85	Peak	284.00	150	Horizontal	Pass
5**	11789.550	39.46	-3.57	54.0	-14.54	AV	284.00	150	Horizontal	Pass
6	17813.887	52.44	0.72	74.0	-21.56	Peak	312.00	150	Horizontal	Pass
6**	17813.887	42.29	0.72	54.0	-11.71	AV	312.00	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.500	40.06	-18.16	74.0	-33.94	Peak	309.00	150	Vertical	Pass
1**	1122.500	30.93	-18.16	54.0	-23.07	AV	309.00	150	Vertical	Pass
2	2839.900	43.00	-11.23	74.0	-31.00	Peak	-2.00	150	Vertical	Pass
2**	2839.900	33.42	-11.23	54.0	-20.58	AV	-2.00	150	Vertical	Pass
3	5059.250	51.28	-3.04	74.0	-22.72	Peak	56.00	150	Vertical	Pass
3**	5059.250	41.96	-3.04	54.0	-12.04	AV	56.00	150	Vertical	Pass
4	5817.750	101.64	-2.10	--	24.64	Peak	77.00	150	Vertical	N/A
4**	5817.750	94.18	-2.10	--	94.18	AV	77.00	150	Vertical	N/A
5	10810.338	49.52	-4.81	74.0	-24.48	Peak	351.00	150	Vertical	Pass
5**	10810.338	39.65	-4.81	54.0	-14.35	AV	351.00	150	Vertical	Pass
6	17921.249	52.17	1.21	74.0	-21.83	Peak	0.00	150	Vertical	Pass
6**	17921.249	43.67	1.21	54.0	-10.33	AV	0.00	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1122.300	43.62	-18.14	74.0	-30.38	Peak	153.00	150	Horizontal	Pass
1**	1122.300	35.24	-18.14	54.0	-18.76	AV	153.00	150	Horizontal	Pass
2	2738.700	42.93	-11.01	74.0	-31.07	Peak	108.00	150	Horizontal	Pass
2**	2738.700	33.27	-11.01	54.0	-20.73	AV	108.00	150	Horizontal	Pass
3	4692.250	50.17	-3.66	74.0	-23.83	Peak	159.00	150	Horizontal	Pass
3**	4692.250	41.83	-3.66	54.0	-12.17	AV	159.00	150	Horizontal	Pass
4	5745.500	103.68	-2.16	--	-14.32	Peak	118.00	150	Horizontal	N/A
4**	5745.500	94.94	-2.16	--	94.94	AV	118.00	150	Horizontal	N/A
5	11524.025	48.88	-4.41	74.0	-25.12	Peak	199.00	150	Horizontal	Pass
5**	11524.025	39.00	-4.41	54.0	-15.00	AV	199.00	150	Horizontal	Pass
6	17854.839	51.82	0.92	74.0	-22.18	Peak	126.00	150	Horizontal	Pass
6**	17854.839	42.91	0.92	54.0	-11.09	AV	126.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.200	39.38	-18.08	74.0	-34.62	Peak	313.00	150	Vertical	Pass
1**	1119.200	32.79	-18.08	54.0	-21.21	AV	313.00	150	Vertical	Pass
2	2759.900	42.51	-11.10	74.0	-31.49	Peak	100.00	150	Vertical	Pass
2**	2759.900	32.95	-11.10	54.0	-21.05	AV	100.00	150	Vertical	Pass
3	4987.750	51.05	-3.16	74.0	-22.95	Peak	157.00	150	Vertical	Pass
3**	4987.750	41.64	-3.16	54.0	-12.36	AV	157.00	150	Vertical	Pass
4	5738.250	98.76	-2.12	--	22.76	Peak	76.00	150	Vertical	N/A
4**	5738.250	90.27	-2.12	--	90.27	AV	76.00	150	Vertical	N/A
5	11902.599	49.81	-2.57	74.0	-24.19	Peak	360.00	150	Vertical	Pass
5**	11902.599	40.64	-2.57	54.0	-13.36	AV	360.00	150	Vertical	Pass
6	17875.313	52.71	1.18	74.0	-21.29	Peak	88.00	150	Vertical	Pass
6**	17875.313	42.29	1.18	54.0	-11.71	AV	88.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1119.800	43.29	-18.04	74.0	-30.71	Peak	158.00	150	Horizontal	Pass
1**	1119.800	36.13	-18.04	54.0	-17.87	AV	158.00	150	Horizontal	Pass
2	2820.600	42.75	-10.82	74.0	-31.25	Peak	266.00	150	Horizontal	Pass
2**	2820.600	34.51	-10.82	54.0	-19.49	AV	266.00	150	Horizontal	Pass
3	4289.500	49.02	-4.71	74.0	-24.98	Peak	6.00	150	Horizontal	Pass
3**	4289.500	39.20	-4.71	54.0	-14.80	AV	6.00	150	Horizontal	Pass
4	5779.750	103.00	-2.66	--	-16.00	Peak	119.00	150	Horizontal	N/A
4**	5779.750	93.92	-2.66	--	93.92	AV	119.00	150	Horizontal	N/A
5	11913.050	48.91	-2.97	74.0	-25.09	Peak	242.00	150	Horizontal	Pass
5**	11913.050	39.35	-2.97	54.0	-14.65	AV	242.00	150	Horizontal	Pass
6	17908.912	52.80	1.38	74.0	-21.20	Peak	107.00	150	Horizontal	Pass
6**	17908.912	43.33	1.38	54.0	-10.67	AV	107.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.200	41.18	-18.29	74.0	-32.82	Peak	303.00	150	Vertical	Pass
1**	1124.200	33.62	-18.29	54.0	-20.38	AV	303.00	150	Vertical	Pass
2	2759.900	43.14	-11.10	74.0	-30.86	Peak	303.00	150	Vertical	Pass
2**	2759.900	33.04	-11.10	54.0	-20.96	AV	303.00	150	Vertical	Pass
3	5061.750	51.48	-3.01	74.0	-22.52	Peak	78.00	150	Vertical	Pass
3**	5061.750	42.06	-3.01	54.0	-11.94	AV	78.00	150	Vertical	Pass
4	5791.500	98.73	-2.49	--	-19.27	Peak	118.00	150	Vertical	N/A
4**	5791.500	90.50	-2.49	--	90.50	AV	118.00	150	Vertical	N/A
5	11893.812	50.37	-2.64	74.0	-23.63	Peak	107.00	150	Vertical	Pass
5**	11893.812	39.54	-2.64	54.0	-14.46	AV	107.00	150	Vertical	Pass
6	17938.051	52.13	0.99	74.0	-21.87	Peak	32.00	150	Vertical	Pass
6**	17938.051	42.73	0.99	54.0	-11.27	AV	32.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1121.800	42.70	-18.11	74.0	-31.30	Peak	146.00	150	Horizontal	Pass
1**	1121.800	34.23	-18.11	54.0	-19.77	AV	146.00	150	Horizontal	Pass
2	2778.300	43.11	-10.62	74.0	-30.89	Peak	332.00	150	Horizontal	Pass
2**	2778.300	33.20	-10.62	54.0	-20.80	AV	332.00	150	Horizontal	Pass
3	4256.000	48.66	-4.42	74.0	-25.34	Peak	234.00	150	Horizontal	Pass
3**	4256.000	39.27	-4.42	54.0	-14.73	AV	234.00	150	Horizontal	Pass
4	5751.500	100.30	-2.33	--	-21.70	Peak	122.00	150	Horizontal	N/A
4**	5751.500	92.20	-2.33	--	92.20	AV	122.00	150	Horizontal	N/A
5	11914.000	49.13	-3.00	74.0	-24.87	Peak	161.00	150	Horizontal	Pass
5**	11914.000	40.13	-3.00	54.0	-13.87	AV	161.00	150	Horizontal	Pass
6	17937.263	52.50	1.00	74.0	-21.50	Peak	313.00	150	Horizontal	Pass
6**	17937.263	43.13	1.00	54.0	-10.87	AV	313.00	150	Horizontal	Pass

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

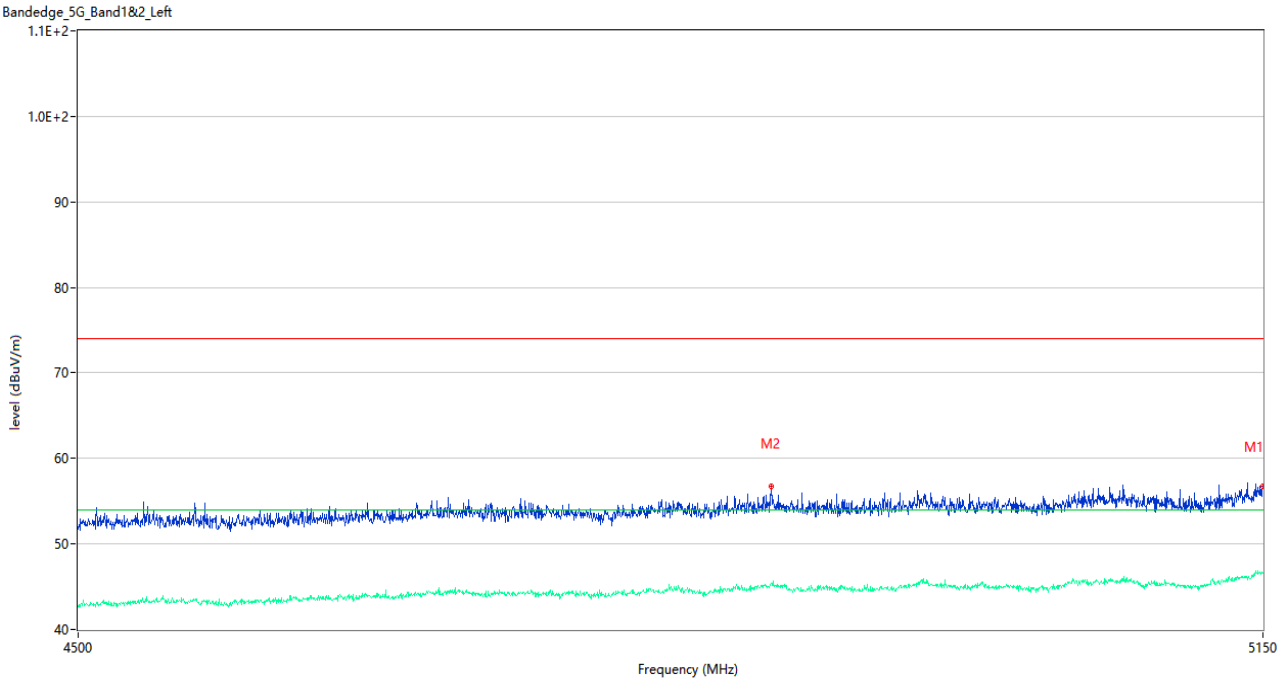
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1114.000	41.04	-17.98	74.0	-32.96	Peak	306.00	150	Vertical	Pass
1**	1114.000	32.99	-17.98	54.0	-21.01	AV	306.00	150	Vertical	Pass
2	2820.200	42.67	-10.79	74.0	-31.33	Peak	345.00	150	Vertical	Pass
2**	2820.200	33.57	-10.79	54.0	-20.43	AV	345.00	150	Vertical	Pass
3	4862.750	51.37	-3.16	74.0	-22.63	Peak	1.00	150	Vertical	Pass
3**	4862.750	41.54	-3.16	54.0	-12.46	AV	1.00	150	Vertical	Pass
4	5778.500	96.39	-2.52	--	-22.61	Peak	119.00	150	Vertical	N/A
4**	5778.500	89.03	-2.52	--	89.03	AV	119.00	150	Vertical	N/A
5	11913.763	49.03	-3.00	74.0	-24.97	Peak	120.00	150	Vertical	Pass
5**	11913.763	39.89	-3.00	54.0	-14.11	AV	120.00	150	Vertical	Pass
6	17852.213	52.31	0.88	74.0	-21.69	Peak	294.00	150	Vertical	Pass
6**	17852.213	42.32	0.88	54.0	-11.68	AV	294.00	150	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

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

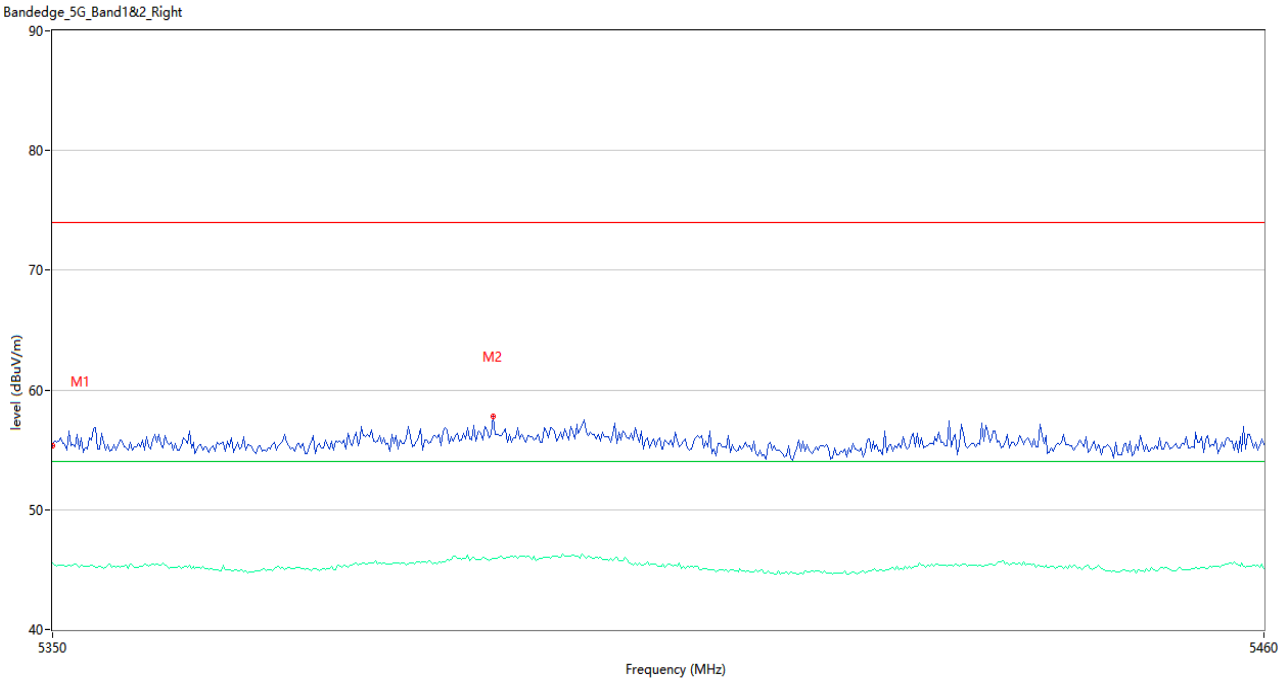
Test Plots

U-NII-1 11a LOW CHANNEL



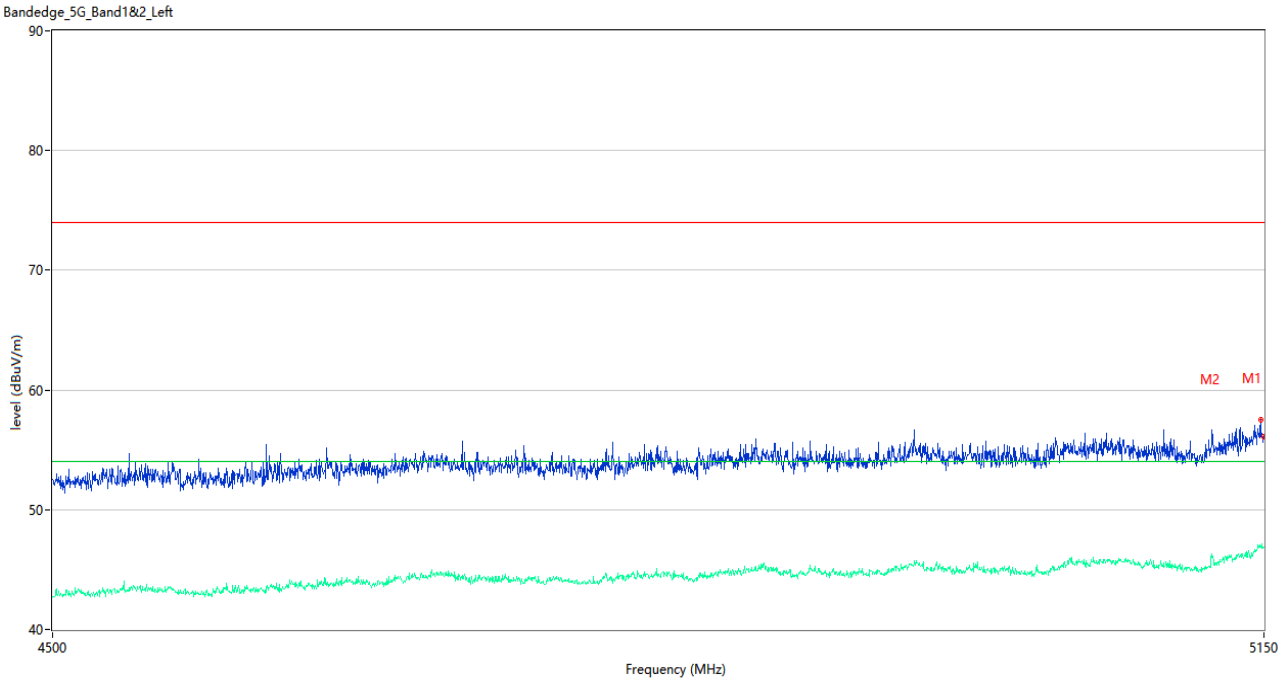
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.76	3.16	74.0	-17.24	Peak	6.00	150	Horizontal	Pass
1**	5150.000	46.61	3.16	54.0	-7.39	AV	6.00	150	Horizontal	Pass
2	4869.525	56.69	2.42	74.0	-17.31	Peak	2.00	150	Horizontal	Pass
2**	4869.525	45.39	2.42	54.0	-8.61	AV	2.00	150	Horizontal	Pass

U-NII-1 11a HIGH CHANNEL



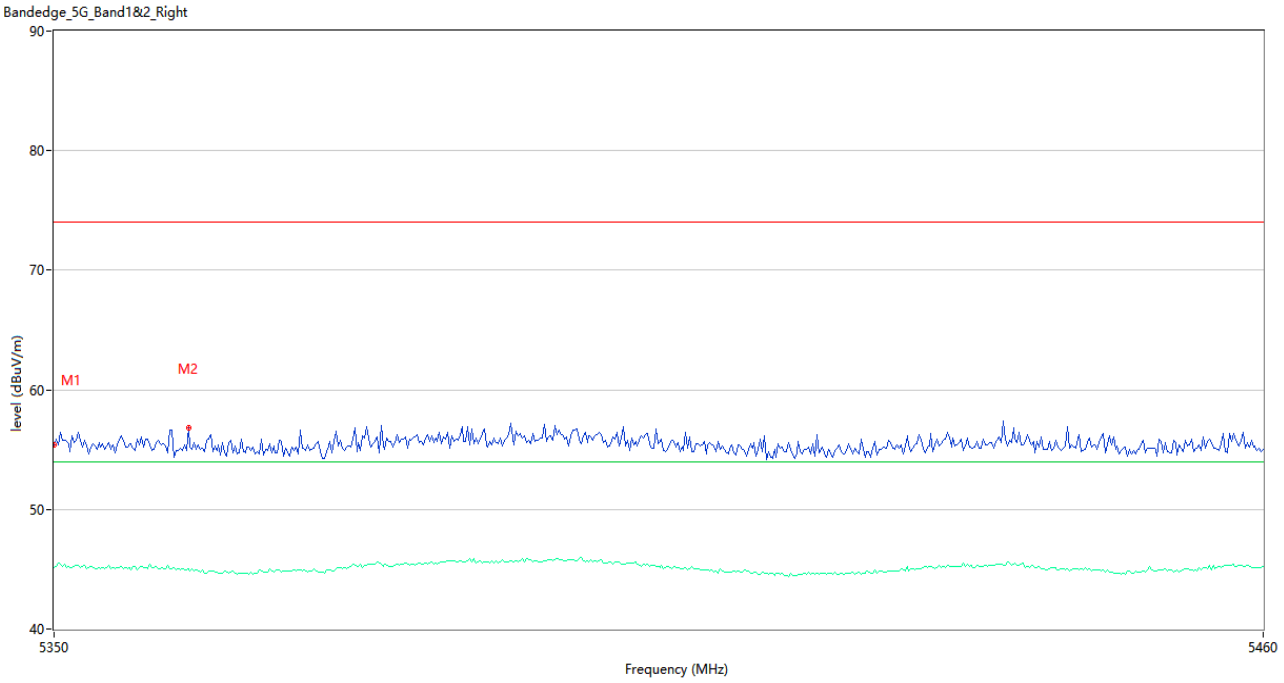
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.34	2.59	74.0	-18.66	Peak	1.00	150	Horizontal	Pass
1**	5350.000	45.51	2.59	54.0	-8.49	AV	1.00	150	Horizontal	Pass
2	5389.783	57.82	2.64	74.0	-16.18	Peak	6.00	150	Horizontal	Pass
2**	5389.783	45.94	2.64	54.0	-8.06	AV	6.00	150	Horizontal	Pass

U-NII-1 11n20 LOW CHANNEL



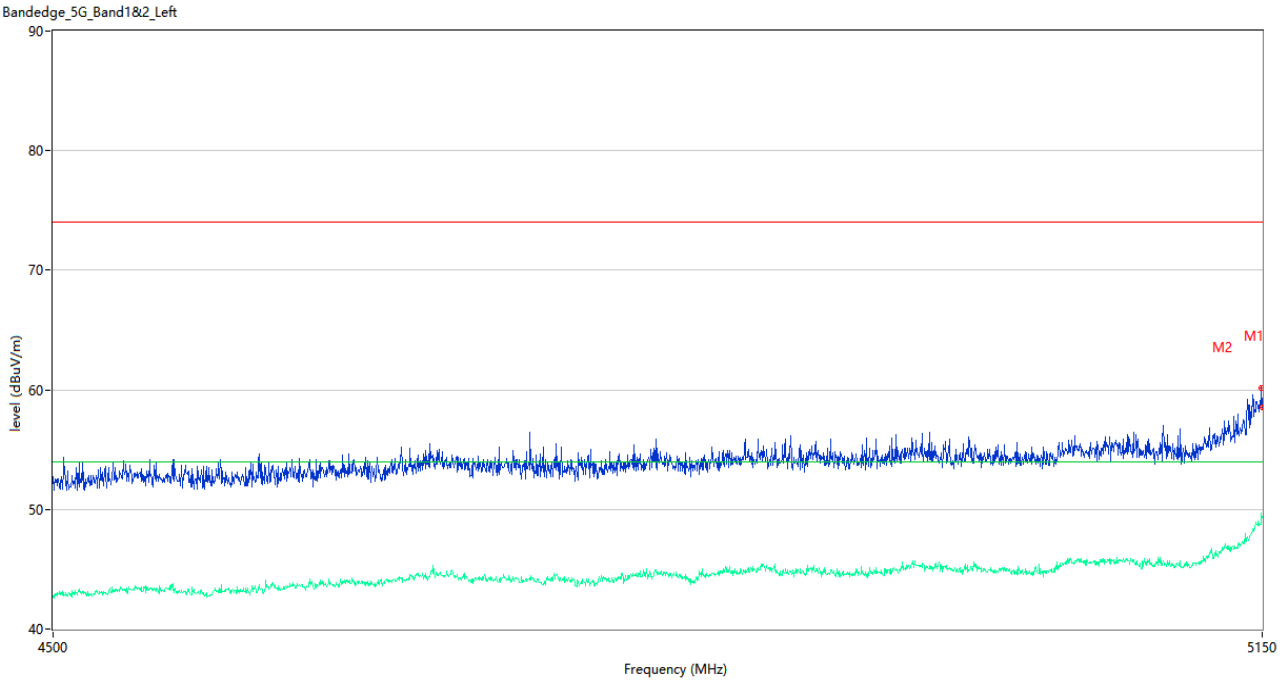
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.07	3.16	74.0	-17.93	Peak	12.00	150	Horizontal	Pass
1**	5150.000	46.91	3.16	54.0	-7.09	AV	12.00	150	Horizontal	Pass
2	5148.050	57.47	3.20	74.0	-16.53	Peak	15.00	150	Horizontal	Pass
2**	5148.050	46.93	3.20	54.0	-7.07	AV	15.00	150	Horizontal	Pass

U-NII-1 11n20 HIGH CHANNEL



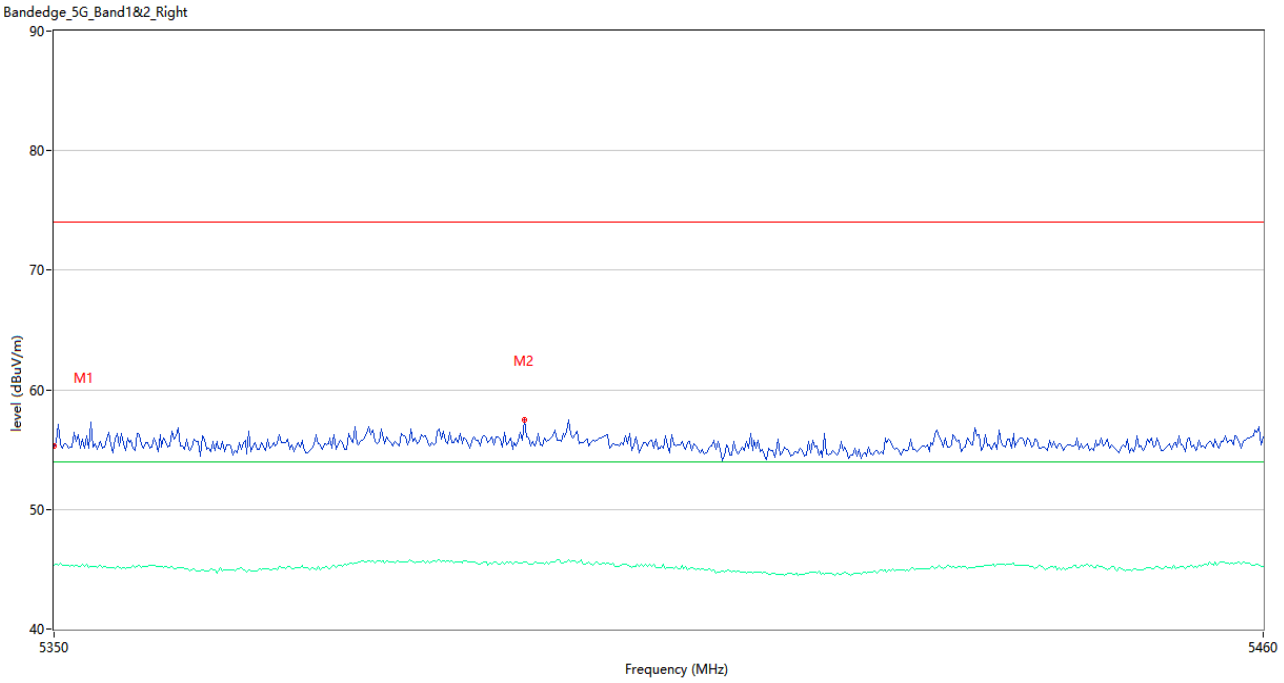
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.42	2.59	74.0	-18.58	Peak	14.00	150	Horizontal	Pass
1**	5350.000	45.16	2.59	54.0	-8.84	AV	14.00	150	Horizontal	Pass
2	5362.100	56.81	2.18	74.0	-17.19	Peak	14.00	150	Horizontal	Pass
2**	5362.100	45.02	2.18	54.0	-8.98	AV	14.00	150	Horizontal	Pass

U-NII-1 11n40 LOW CHANNEL



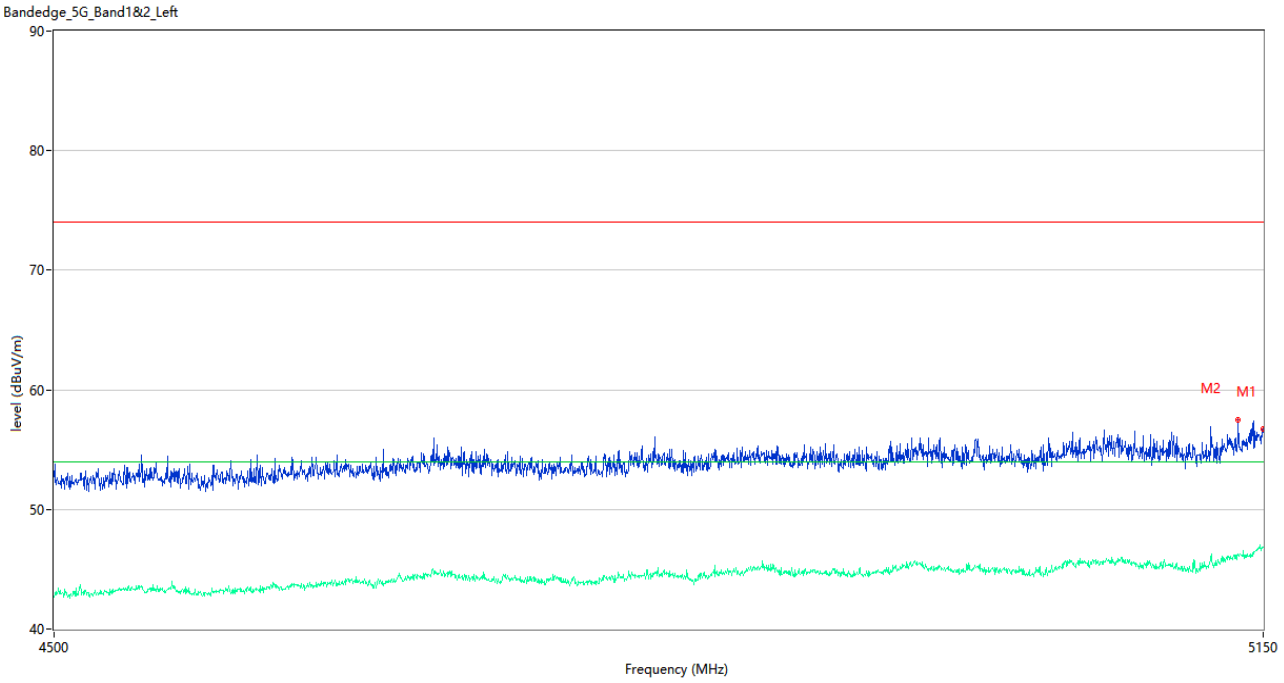
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.54	3.16	74.0	-15.46	Peak	3.00	150	Horizontal	Pass
1**	5150.000	49.27	3.16	54.0	-4.73	AV	3.00	150	Horizontal	Pass
2	5149.675	60.17	3.13	74.0	-13.83	Peak	2.00	150	Horizontal	Pass
2**	5149.675	49.72	3.13	54.0	-4.28	AV	2.00	150	Horizontal	Pass

U-NII-1 11n40 HIGH CHANNEL



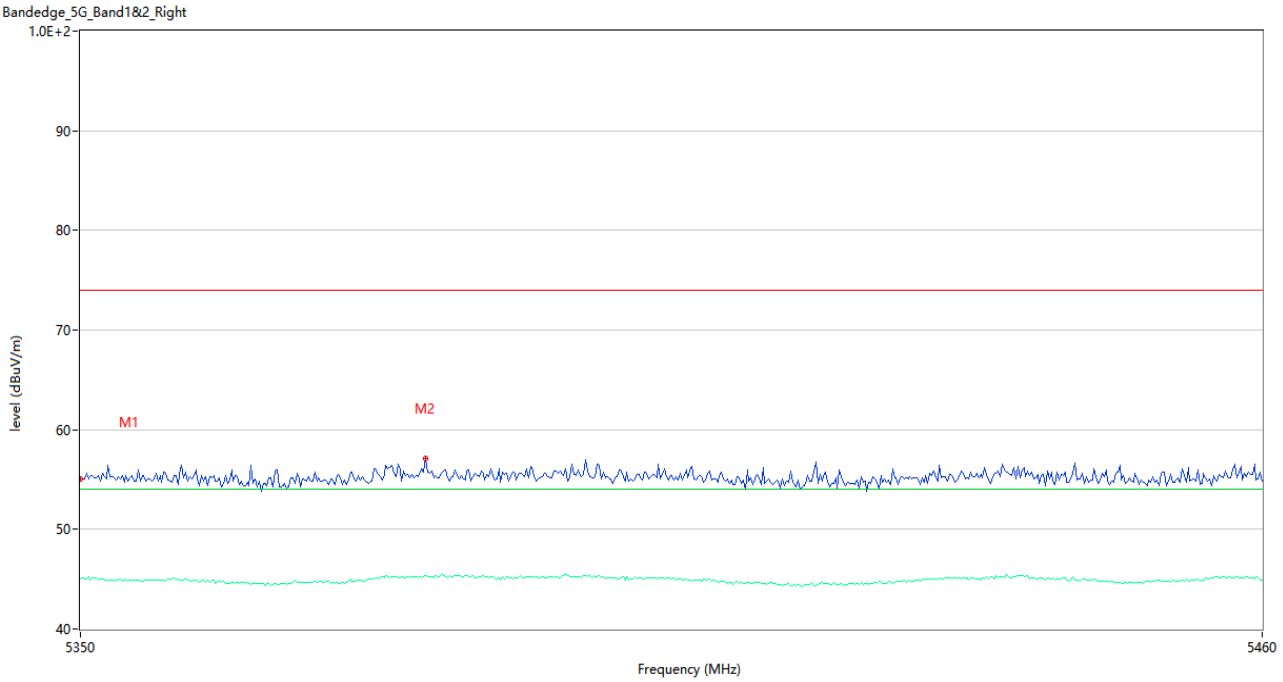
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.32	2.59	74.0	-18.68	Peak	2.00	150	Horizontal	Pass
1**	5350.000	45.29	2.59	54.0	-8.71	AV	2.00	150	Horizontal	Pass
2	5392.533	57.46	2.71	74.0	-16.54	Peak	3.00	150	Horizontal	Pass
2**	5392.533	45.59	2.71	54.0	-8.41	AV	3.00	150	Horizontal	Pass

U-NII-1 11ac20 LOW CHANNEL



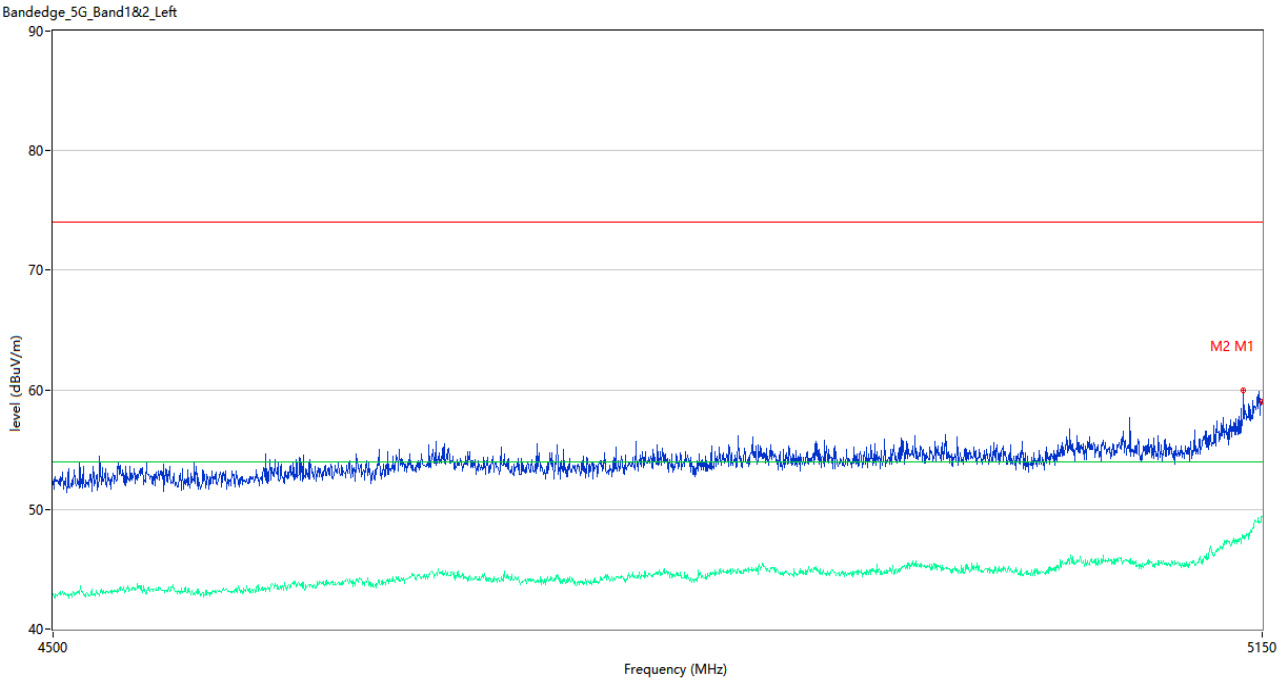
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.73	3.16	74.0	-17.27	Peak	1.00	150	Horizontal	Pass
1**	5150.000	46.84	3.16	54.0	-7.16	AV	1.00	150	Horizontal	Pass
2	5135.700	57.44	3.00	74.0	-16.56	Peak	3.00	150	Horizontal	Pass
2**	5135.700	46.16	3.00	54.0	-7.84	AV	3.00	150	Horizontal	Pass

U-NII-1 11ac20 HIGH CHANNEL



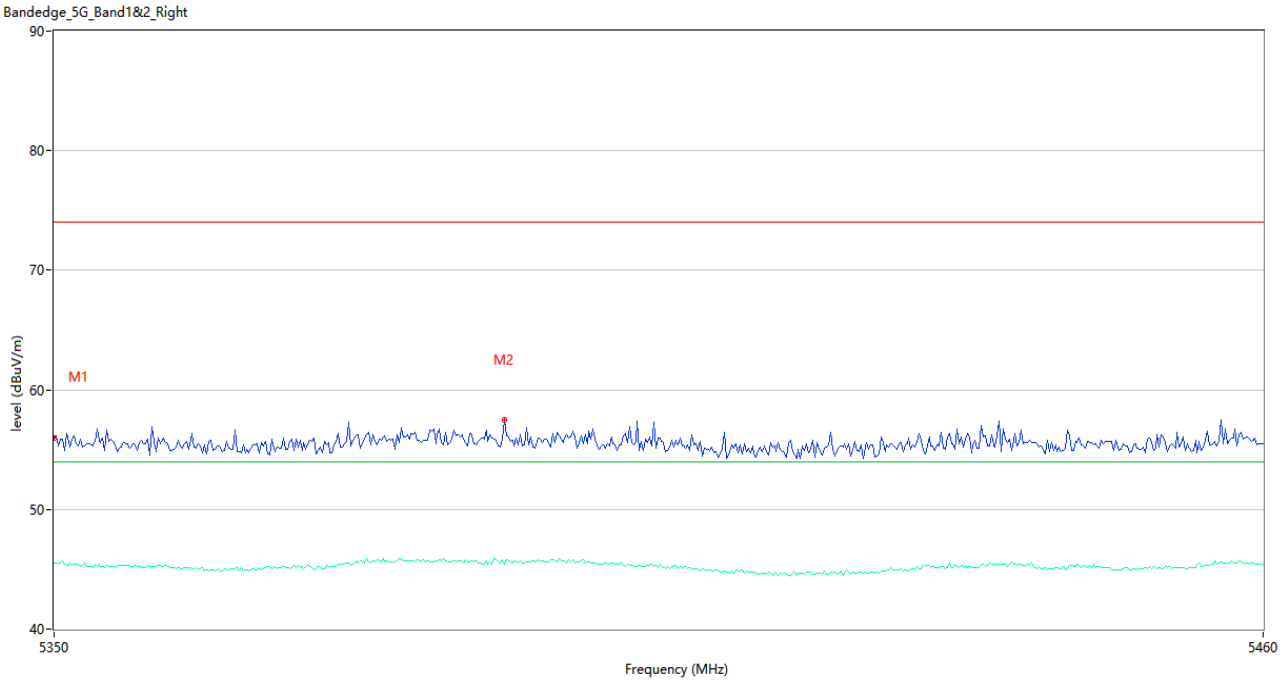
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.08	2.59	74.0	-18.92	Peak	3.00	150	Horizontal	Pass
1**	5350.000	45.04	2.59	54.0	-8.96	AV	3.00	150	Horizontal	Pass
2	5381.900	57.11	2.71	74.0	-16.89	Peak	6.00	150	Horizontal	Pass
2**	5381.900	45.39	2.71	54.0	-8.61	AV	6.00	150	Horizontal	Pass

U-NII-1 11ac40 LOW CHANNEL



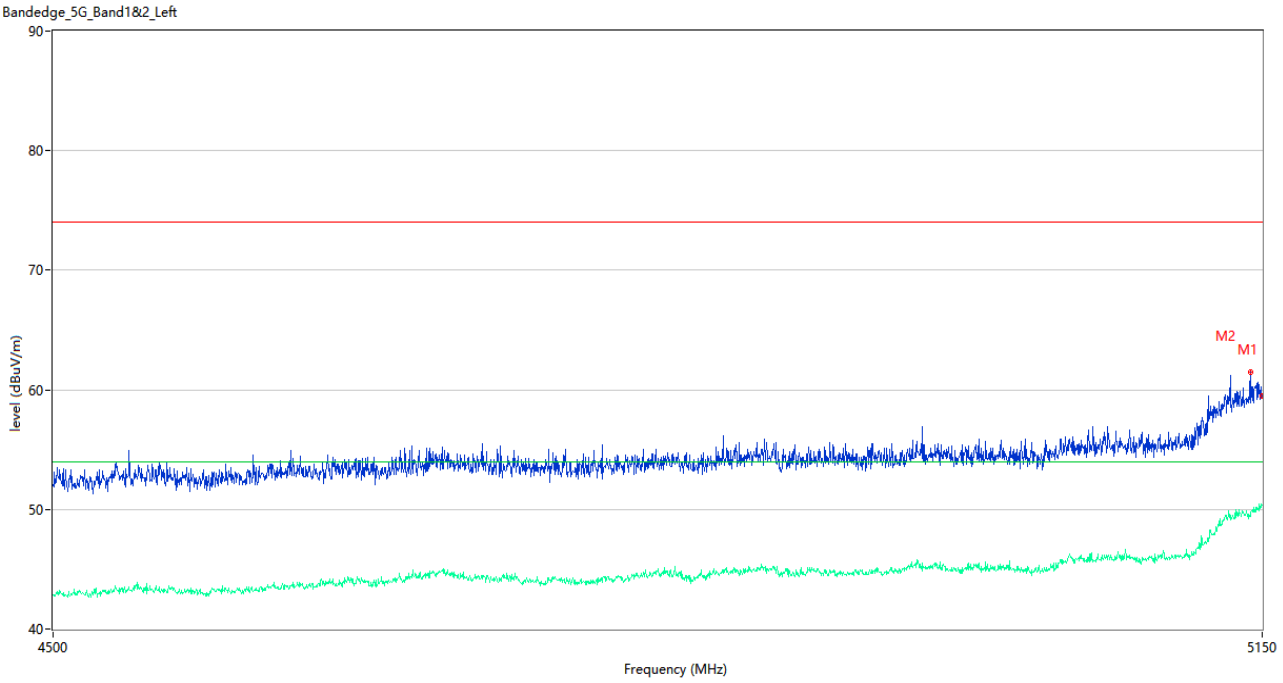
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	59.04	3.16	74.0	-14.96	Peak	15.00	150	Horizontal	Pass
1**	5150.000	49.39	3.16	54.0	-4.61	AV	15.00	150	Horizontal	Pass
2	5139.275	59.95	2.98	74.0	-14.05	Peak	13.00	150	Horizontal	Pass
2**	5139.275	47.77	2.98	54.0	-6.23	AV	13.00	150	Horizontal	Pass

U-NII-1 11ac40 HIGH CHANNEL



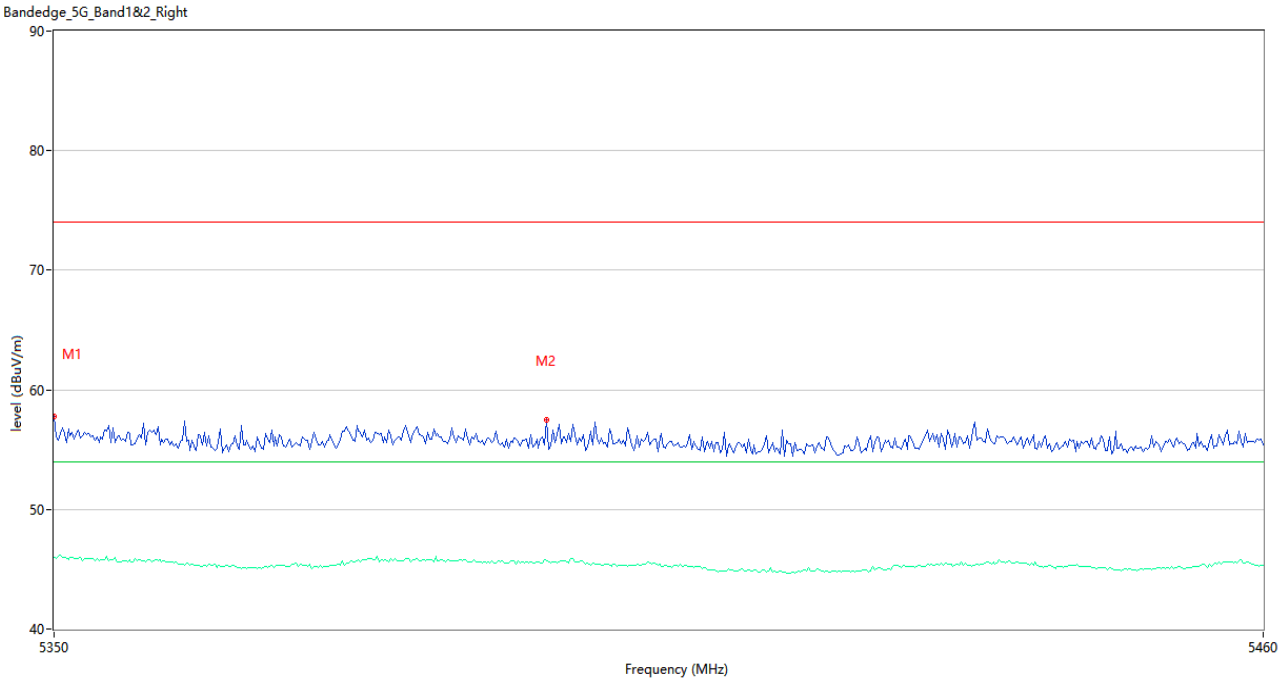
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.01	2.59	74.0	-17.99	Peak	15.00	150	Horizontal	Pass
1**	5350.000	45.51	2.59	54.0	-8.49	AV	15.00	150	Horizontal	Pass
2	5390.700	57.48	2.69	74.0	-16.52	Peak	14.00	150	Horizontal	Pass
2**	5390.700	45.45	2.69	54.0	-8.55	AV	14.00	150	Horizontal	Pass

U-NII-1 11ac80 LOW CHANNEL



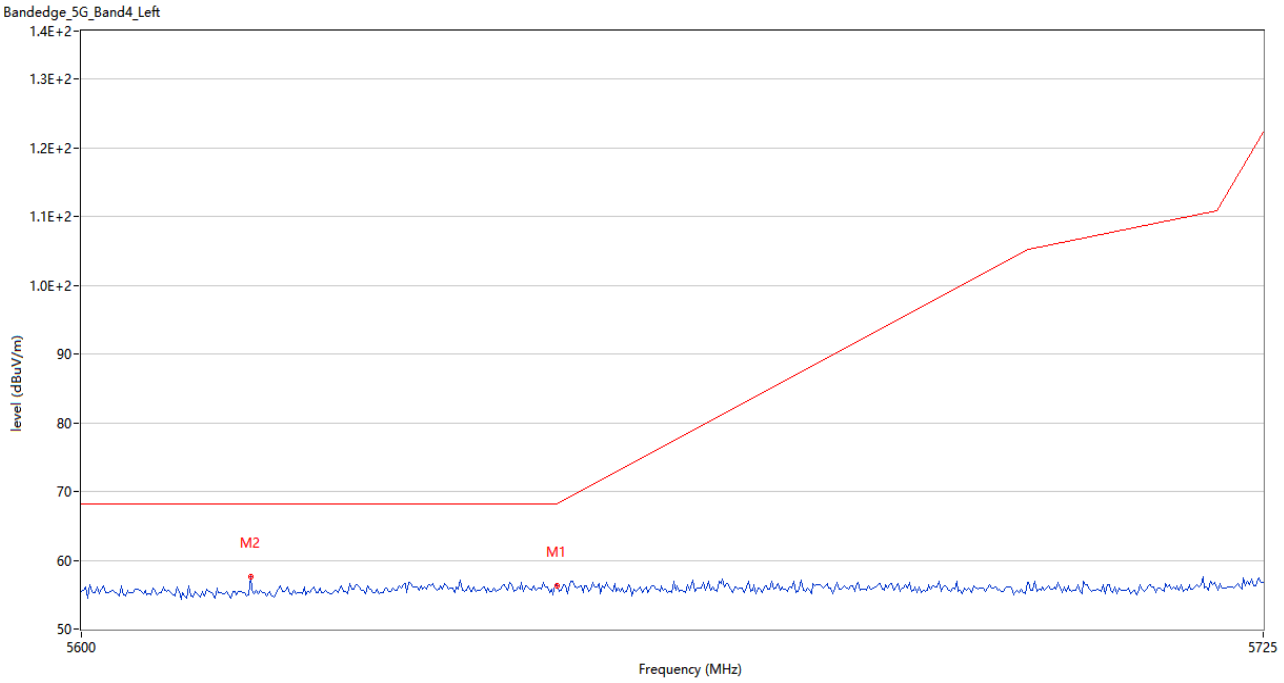
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	59.51	3.16	74.0	-14.49	Peak	10.00	150	Horizontal	Pass
1**	5150.000	50.38	3.16	54.0	-3.62	AV	10.00	150	Horizontal	Pass
2	5143.175	61.53	2.88	74.0	-12.47	Peak	3.00	150	Horizontal	Pass
2**	5143.175	49.44	2.88	54.0	-4.56	AV	3.00	150	Horizontal	Pass

U-NII-1 11ac80 HIGH CHANNEL



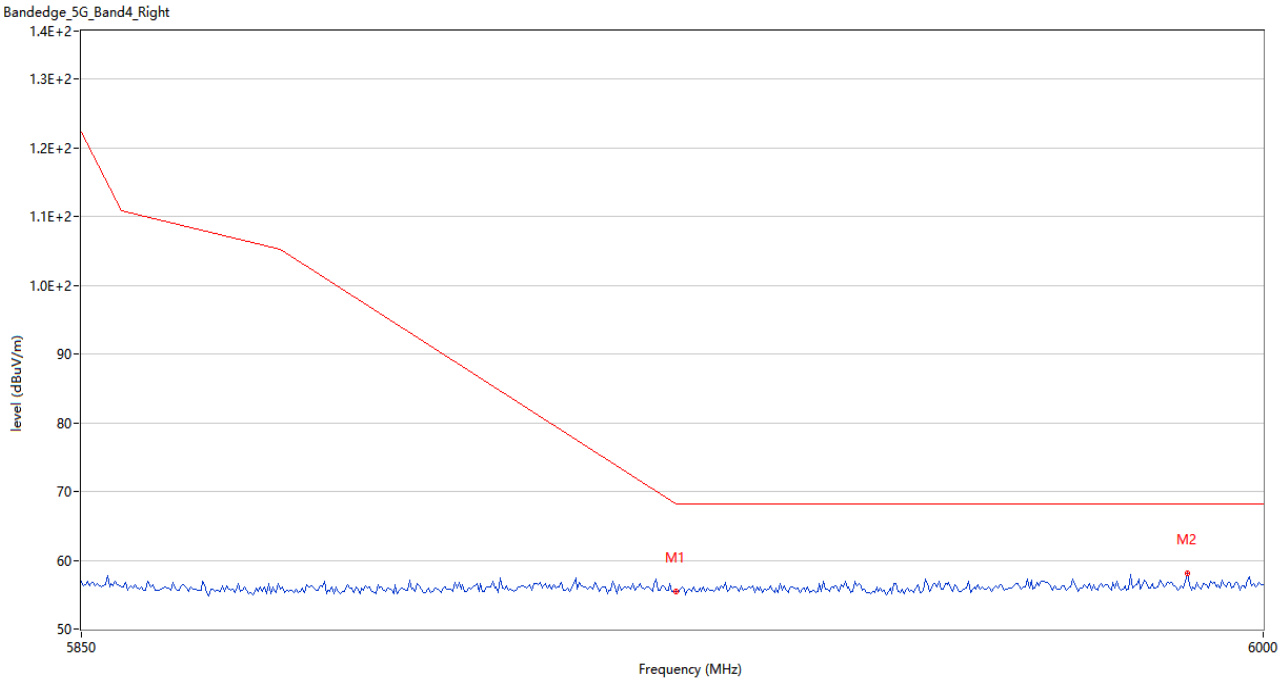
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	57.77	2.59	74.0	-16.23	Peak	6.00	150	Horizontal	Pass
1**	5350.000	46.01	2.59	54.0	-7.99	AV	6.00	150	Horizontal	Pass
2	5394.550	57.50	2.78	74.0	-16.50	Peak	5.00	150	Horizontal	Pass
2**	5394.550	45.68	2.78	54.0	-8.32	AV	5.00	150	Horizontal	Pass

U-NII-3 11a LOW CHANNEL



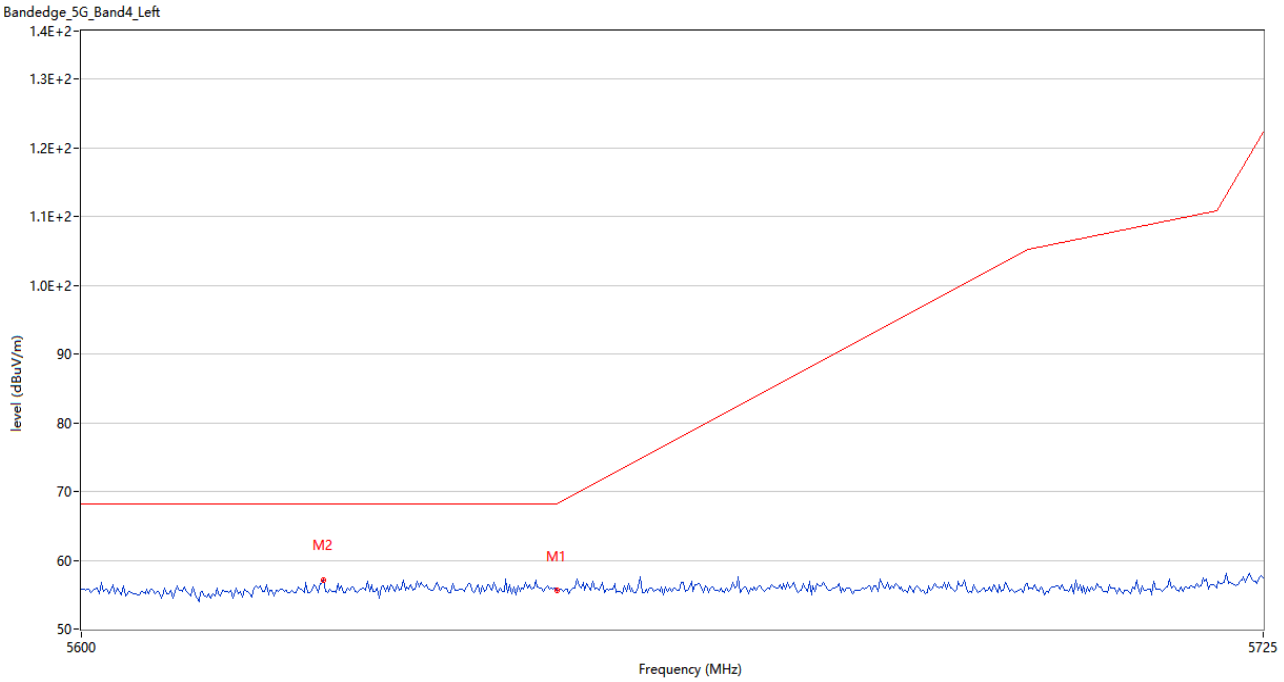
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	56.28	2.83	68.2	-11.92	Peak	14.00	150	Horizontal	Pass
2	5617.709	57.54	2.51	68.2	-10.66	Peak	8.00	150	Horizontal	Pass

U-NII-3 11a HIGH CHANNEL



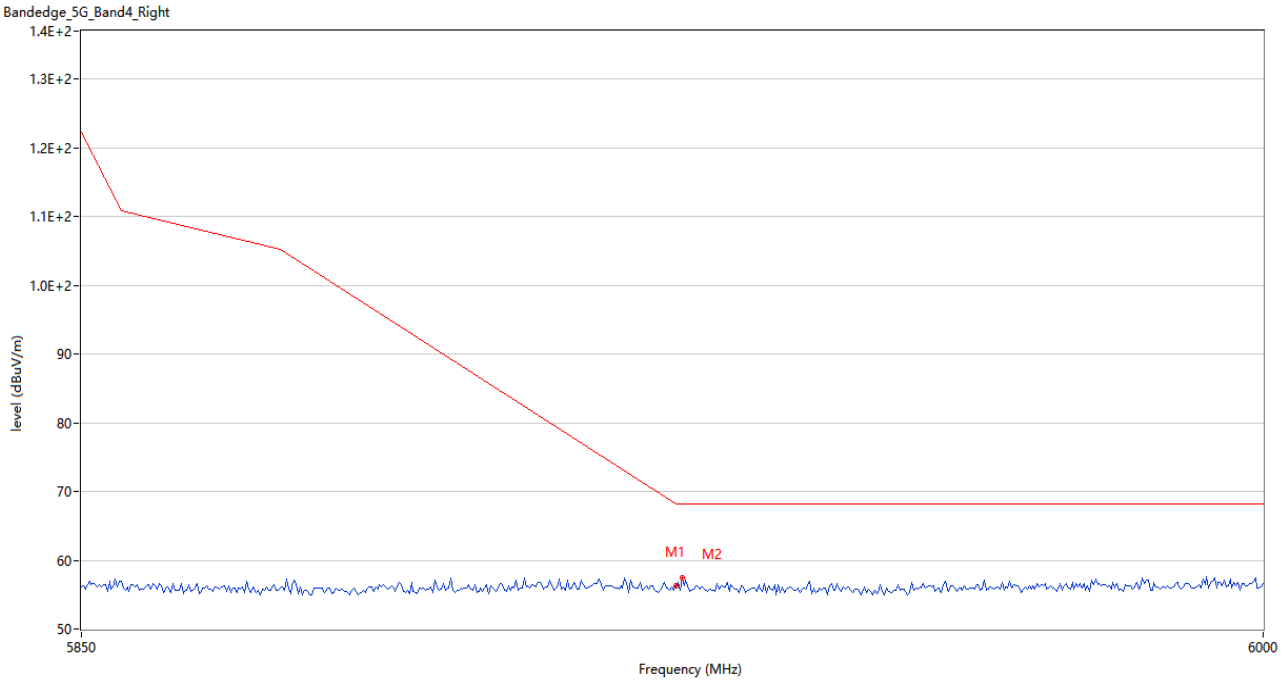
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.52	2.81	68.2	-12.68	Peak	5.00	150	Horizontal	Pass
2	5990.250	58.12	3.72	68.2	-10.08	Peak	3.00	150	Horizontal	Pass

U-NII-3 11n20 LOW CHANNEL



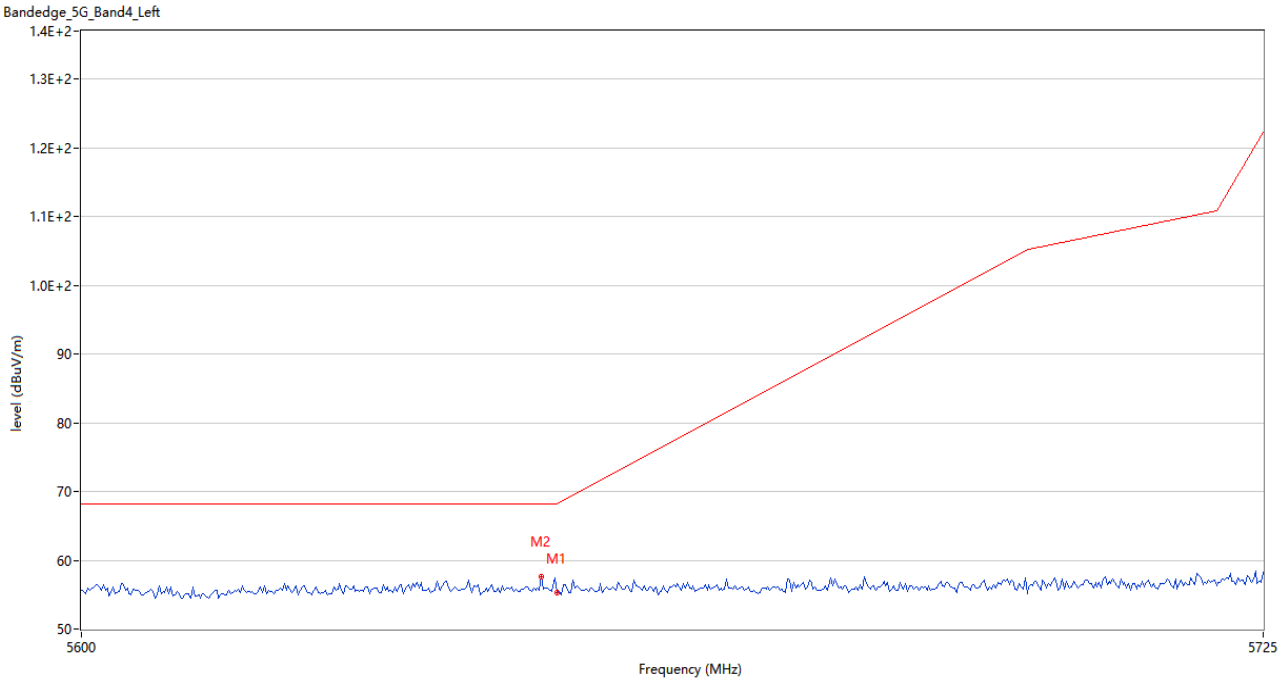
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.56	2.83	68.2	-12.64	Peak	10.00	150	Horizontal	Pass
2	5625.417	57.18	2.59	68.2	-11.02	Peak	11.00	150	Horizontal	Pass

U-NII-3 11n20 HIGH CHANNEL



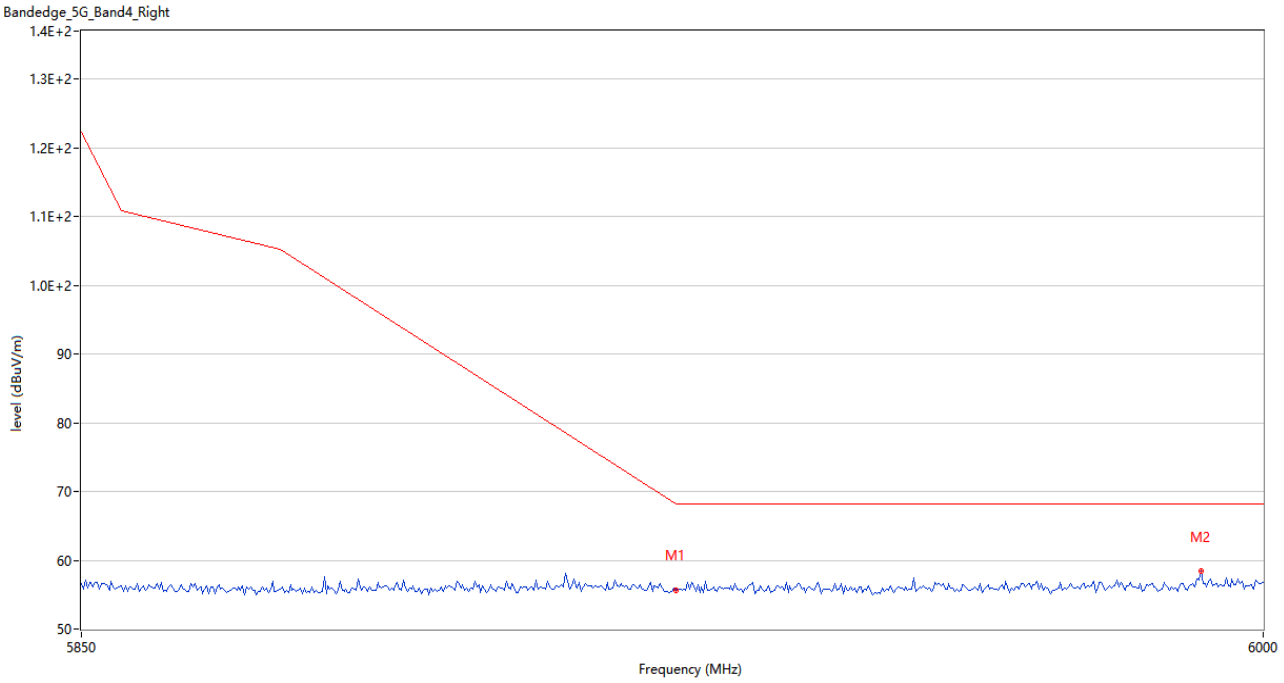
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.33	2.81	68.2	-11.87	Peak	6.00	150	Horizontal	Pass
2	5925.750	57.49	2.84	68.2	-10.71	Peak	13.00	150	Horizontal	Pass

U-NII-3 11n40 LOW CHANNEL



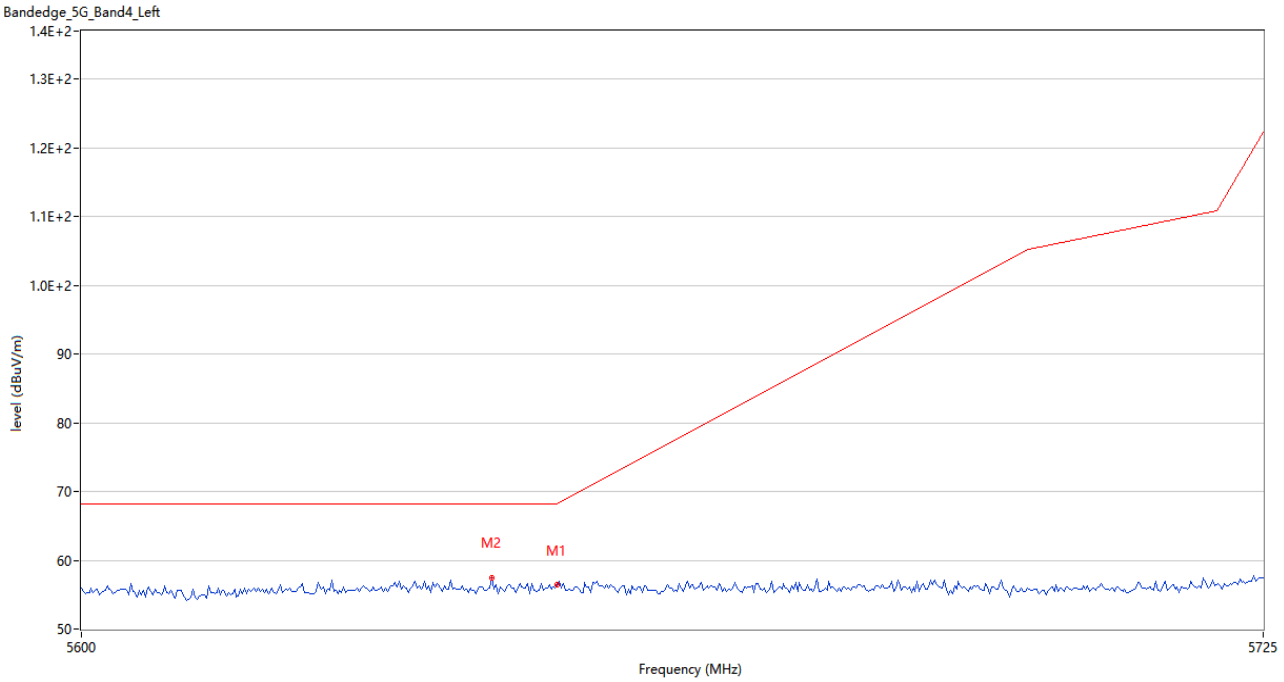
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.27	2.83	68.2	-12.93	Peak	7.00	150	Horizontal	Pass
2	5648.333	57.68	2.78	68.2	-10.52	Peak	12.00	150	Horizontal	Pass

U-NII-3 11n40 HIGH CHANNEL



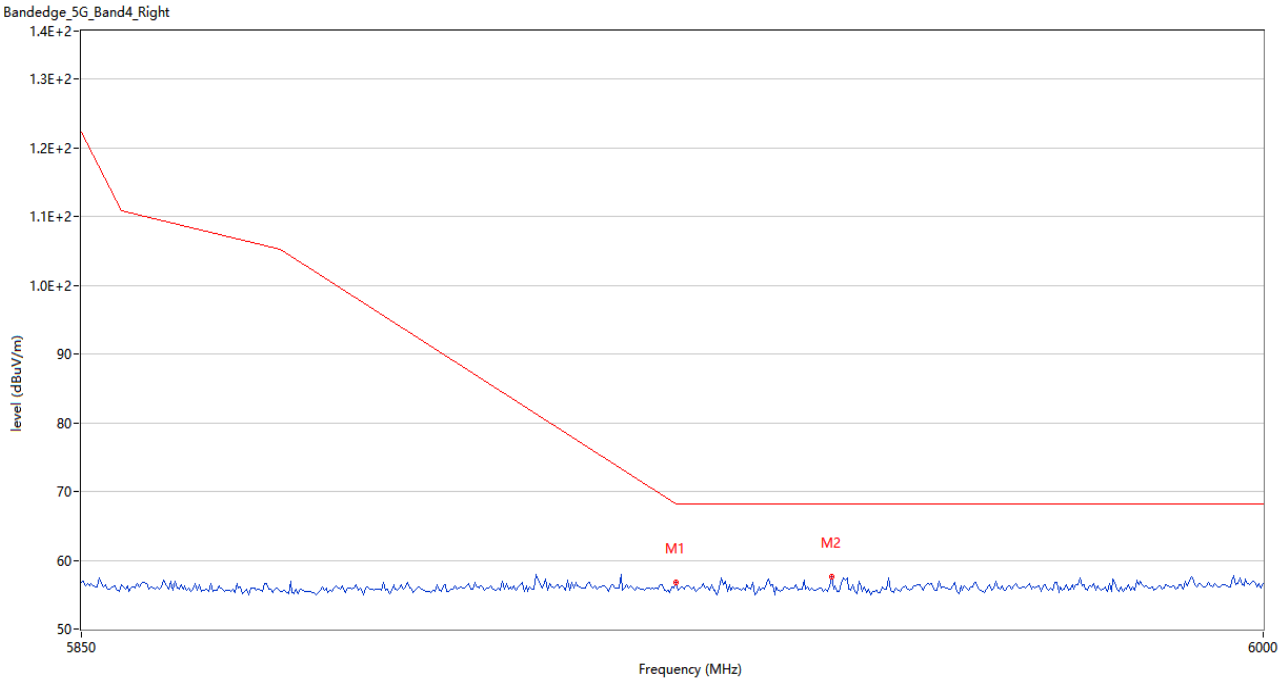
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.69	2.81	68.2	-12.51	Peak	13.00	150	Horizontal	Pass
2	5992.000	58.45	3.80	68.2	-9.75	Peak	15.00	150	Horizontal	Pass

U-NII-3 11ac20 LOW CHANNEL



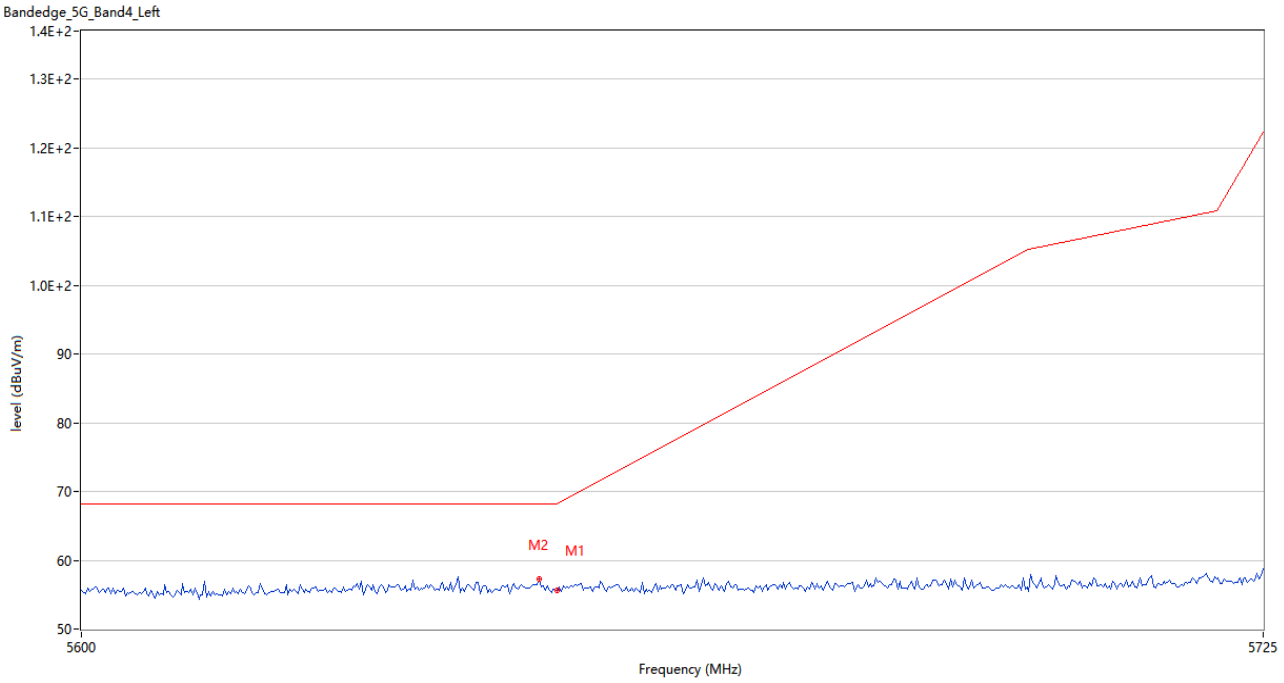
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	56.50	2.83	68.2	-11.70	Peak	7.00	150	Horizontal	Pass
2	5643.125	57.50	2.66	68.2	-10.70	Peak	10.00	150	Horizontal	Pass

U-NII-3 11ac20 HIGH CHANNEL



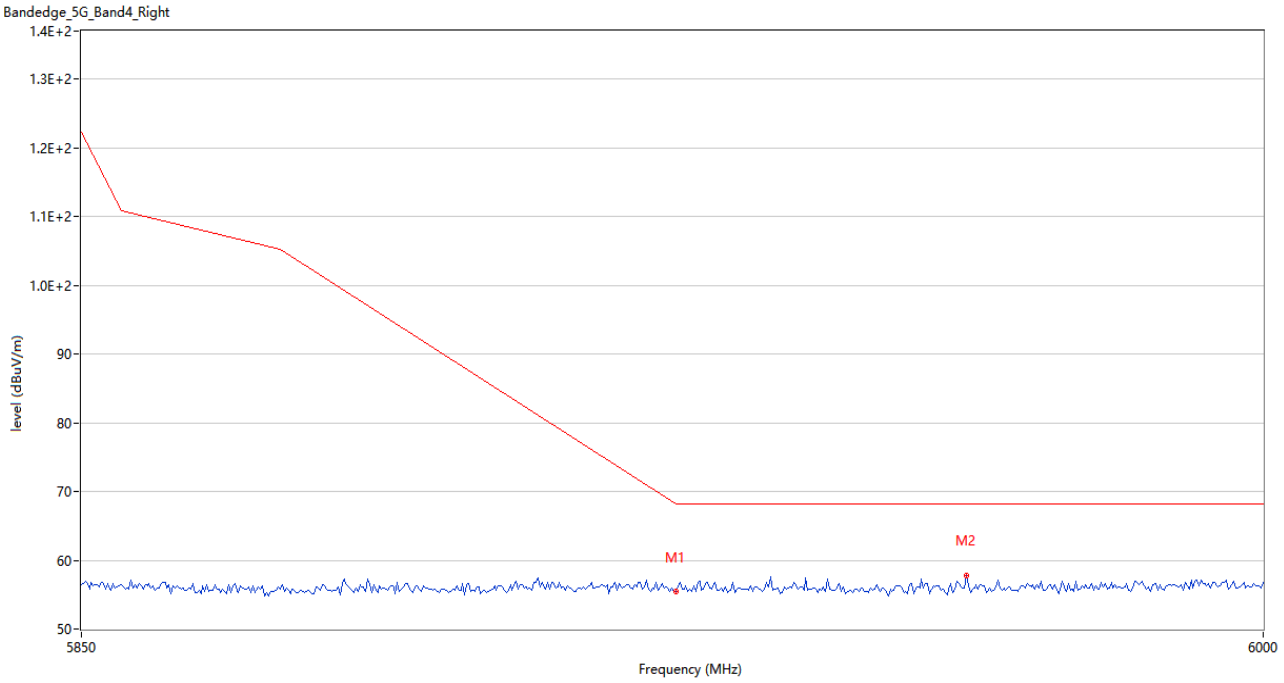
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.81	2.81	68.2	-11.39	Peak	4.00	150	Horizontal	Pass
2	5944.750	57.64	3.01	68.2	-10.56	Peak	13.00	150	Horizontal	Pass

U-NII-3 11ac40 LOW CHANNEL



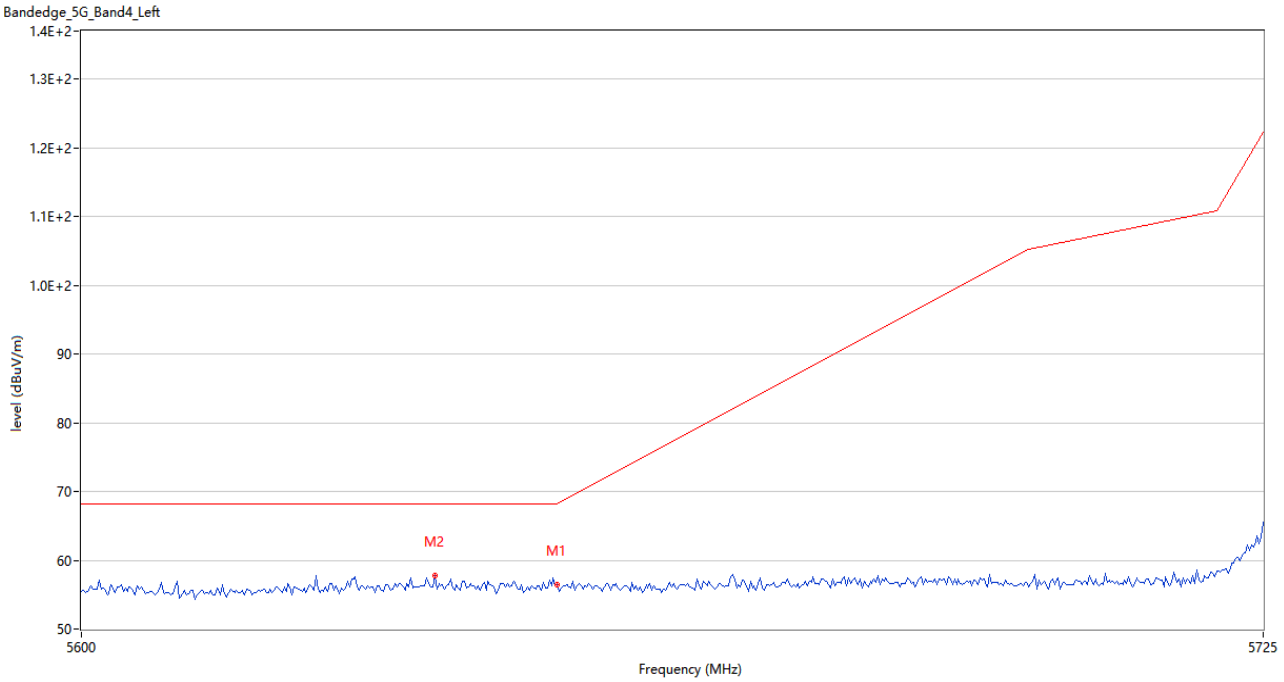
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.57	2.83	68.2	-12.63	Peak	9.00	150	Horizontal	Pass
2	5648.125	57.30	2.78	68.2	-10.90	Peak	4.00	150	Horizontal	Pass

U-NII-3 11ac40 HIGH CHANNEL



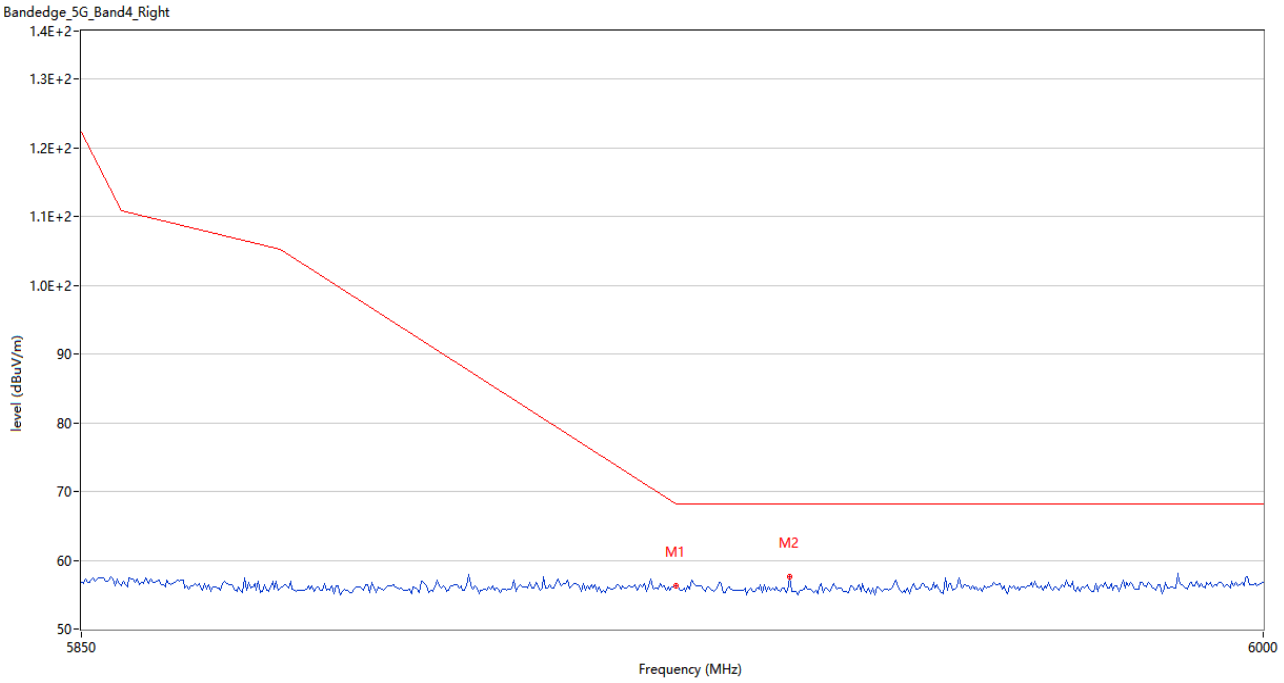
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.48	2.81	68.2	-12.72	Peak	3.00	150	Horizontal	Pass
2	5962.000	57.83	3.04	68.2	-10.37	Peak	3.00	150	Horizontal	Pass

U-NII-3 11ac80 LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	56.38	2.83	68.2	-11.82	Peak	2.00	150	Horizontal	Pass
2	5637.084	57.73	2.98	68.2	-10.47	Peak	6.00	150	Horizontal	Pass

U-NII-3 11ac80 HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.28	2.81	68.2	-11.92	Peak	9.00	150	Horizontal	Pass
2	5939.500	57.56	2.94	68.2	-10.64	Peak	15.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2190090-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2190090-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2190090-AI.PDF”.

--END OF REPORT--