RF TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

AC650 High-Gain Dual Band Wireless USB Adapter

ISSUED TO
Ugreen Group Limited

URGEEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

Report No.:	BL-SZ2210449-602
EUT Name:	AC650 High-Gain Dual Band Wireless USB Adapter
Model Name:	CM496 (refer section 2.4)
Brand Name:	UGREEN
Test Standard:	47 CFR Part 15 Subpart E (refer section 3.1)
FCC ID:	2AQI5-UG650A
Test Conclusion:	Pass
Test Date:	Jan. 13, 2022 ~ Feb. 08, 2022
Date of Issue:	Feb. 21, 2022

Tested by: Julie Zhu
Julie Zhu
Date Feb. 21, 2022

Approved by: Liao Hanming
(Technical Director)
Date Feb. 21, 2022

Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong, P. R. China 518055
TEL: +86-755-66850100, FAX: +86-755-61824271
Email: qc@baluntek.com
www.baluntek.com

Revision History

Version	Issue Date	Revisions Content
Rev. 01	Feb. 21, 2022	Initial Issue

TABLE OF CONTENTS

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 v4.6.

(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 Information

Applicant	Ugreen Group Limited
Address	URGEEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

2.2 Manufacturer Information

Manufacturer	Ugreen Group Limited
Address	URGEEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

2.3 Factory Information

Factory	SHENZHEN TENDA TECHNOLOGY CO., LTD.
Address	6/F-8/F, Block E3, TCL Hi-tech Park, #1001 Zhongshanyua Rd, Xili, Nanshan District. Shenzhen, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	AC650 High-Gain Dual Band Wireless USB Adapter
Model Name Under Test	CM496
Series Model Name	90339, CM580, 90553
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in Case and Dimensions.
Hardware Version	V1.0
Software Version	FS_U10V1.0_RTL_V0.0.5.2_CLL01.bin
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	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	Mobile 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: 17.21 dBm U-NII-3: 17.35 dBm
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	External Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 3.90 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.98 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 AC650 High-Gain Dual Band Wireless USB Adapter, 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.

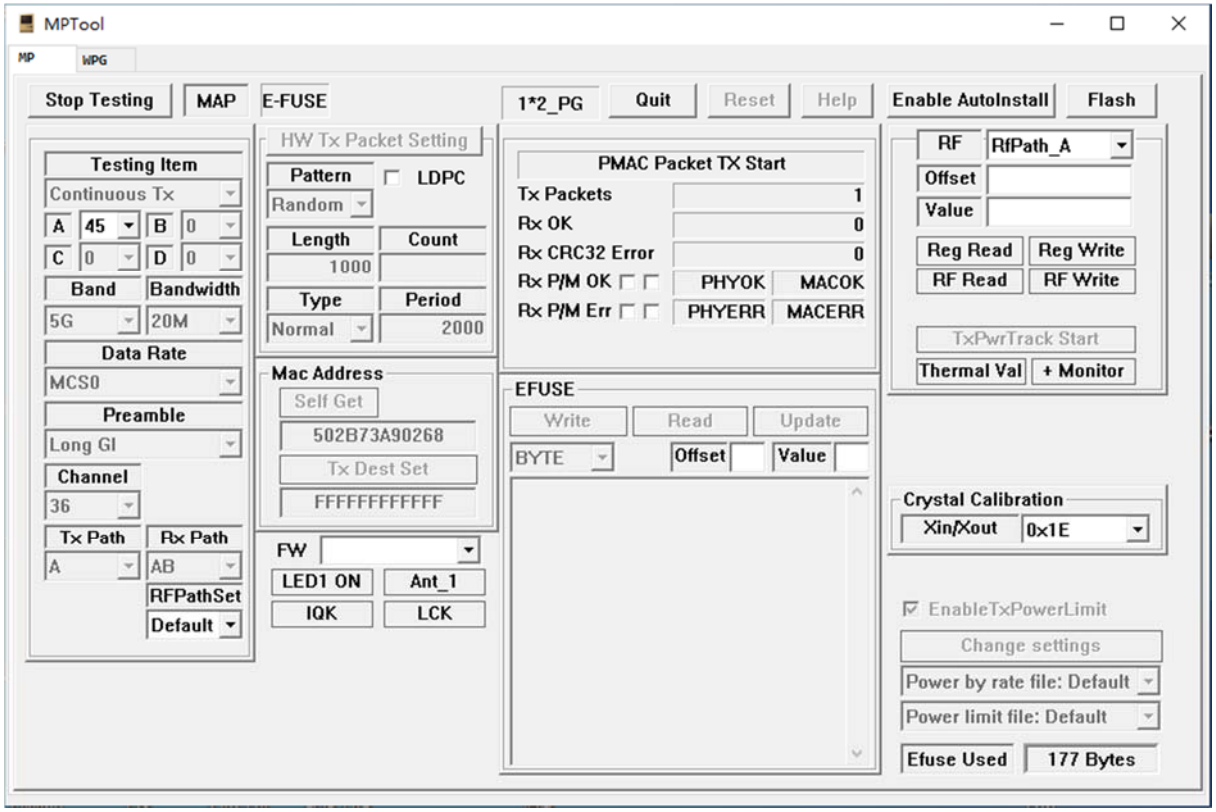
During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test Software Version	MP Tool		
Support Units (Software installation media)	Description	Manufacturer	Model
	Notebook	Lenovo	X220

U-NII-1 (5150 - 5250 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH36	5180	45
11a	CH44	5220	45
11a	CH48	5240	44
11n (HT20)	CH36	5180	45
11n (HT20)	CH44	5220	45
11n (HT20)	CH48	5240	44
11n (HT40)	CH38	5190	45
11n (HT40)	CH46	5230	44
11ac (VHT20)	CH36	5180	45
11ac (VHT20)	CH44	5220	45
11ac (VHT20)	CH48	5240	44
11ac (VHT40)	CH38	5190	45
11ac (VHT40)	CH46	5230	45
11ac (VHT80)	CH42	5210	42

U-NII-3 (5725 - 5850 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH149	5745	41
11a	CH157	5785	41
11a	CH165	5825	42
11n (HT20)	CH149	5745	41
11n (HT20)	CH157	5785	42
11n (HT20)	CH165	5825	42
11n (HT40)	CH151	5755	41
11n (HT40)	CH159	5795	42
11ac (VHT20)	CH149	5745	41
11ac (VHT20)	CH157	5785	42
11ac (VHT20)	CH165	5825	42
11ac (VHT40)	CH151	5755	41
11ac (VHT40)	CH159	5795	41
11ac (VHT80)	CH155	5775	40

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	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/36	165/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

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

3.2 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)	+40℃
Working Voltage of the EUT	NV (Normal Voltage)	5.0 V
	LV (Low Voltage)	4.5 V
	HV (High Voltage)	5.5 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.01.04	2023.01.03
Bluetooth Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2021.08.09	2022.08.08
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2021.01.27	2023.01.25
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2021.08.24	2022.08.23
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2021.06.01	2022.05.31
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2021.05.08	2022.05.07
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.09.13	2022.09.12
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.10.10	2022.10.09
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.08	2022.06.07
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
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	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2021.09.04	2024.09.09
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2021.08.15	2024.08.14
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V19.8.28.435	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

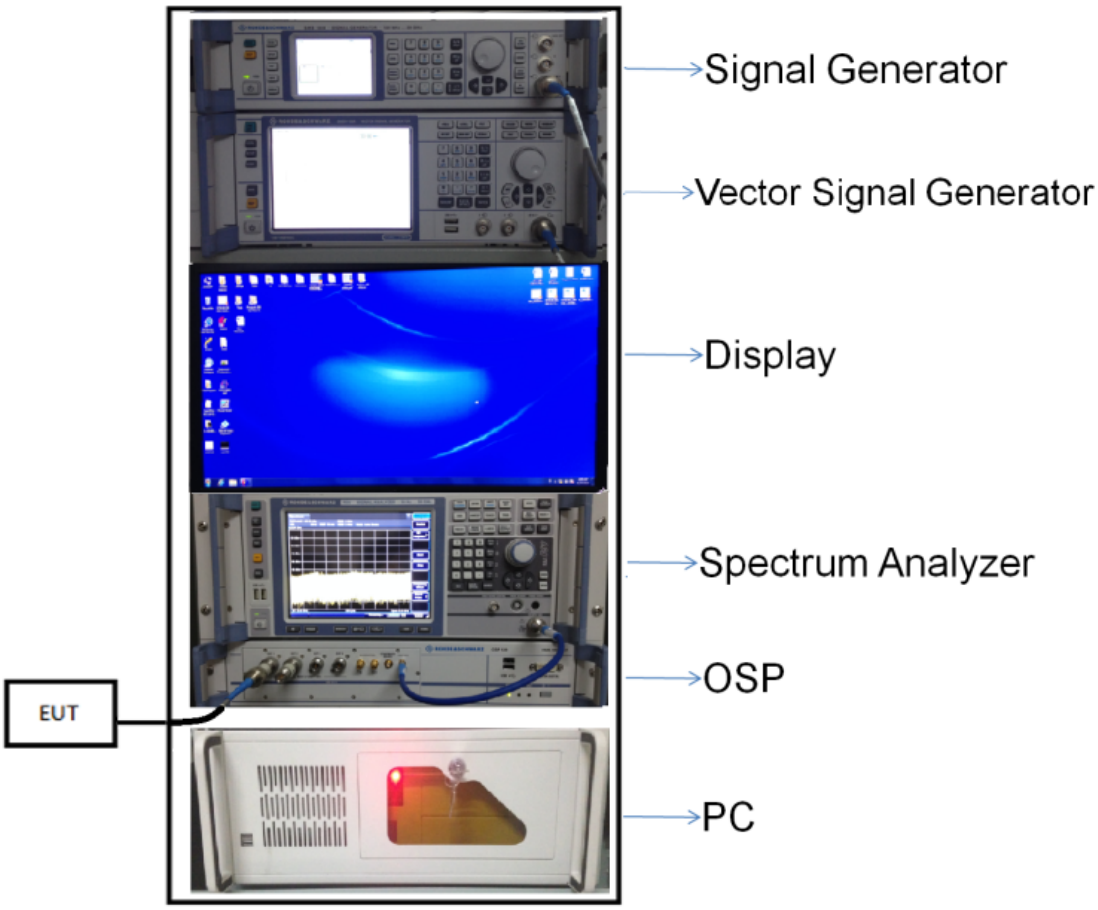
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.82°C
Humidity	4.1%

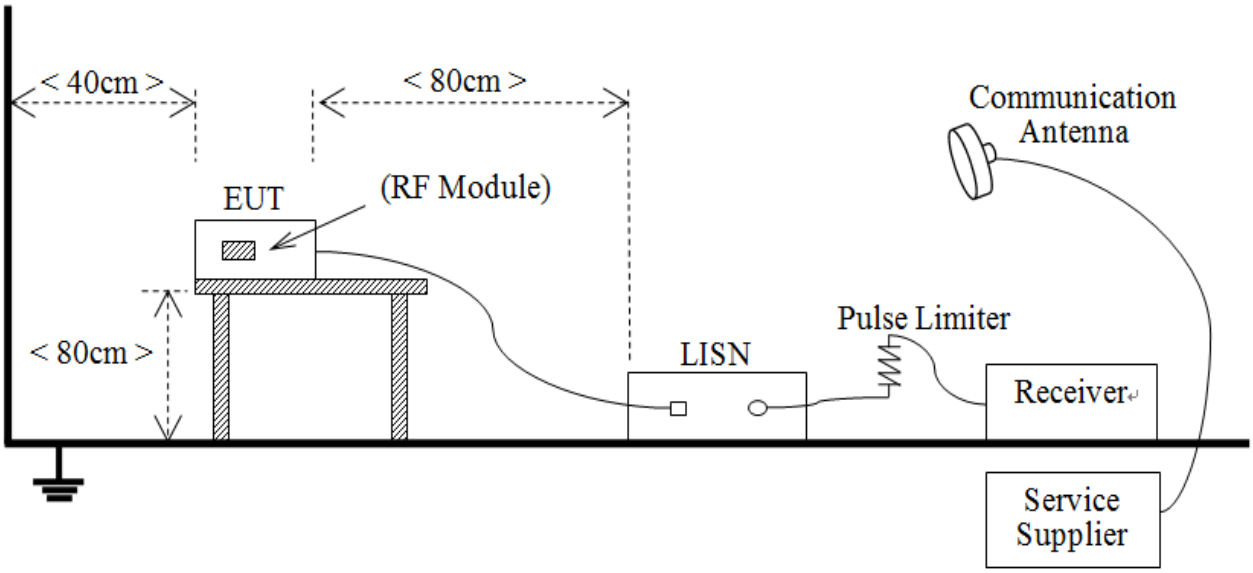
4.5 Description of Test Setup

4.5.1 For Antenna Port Test



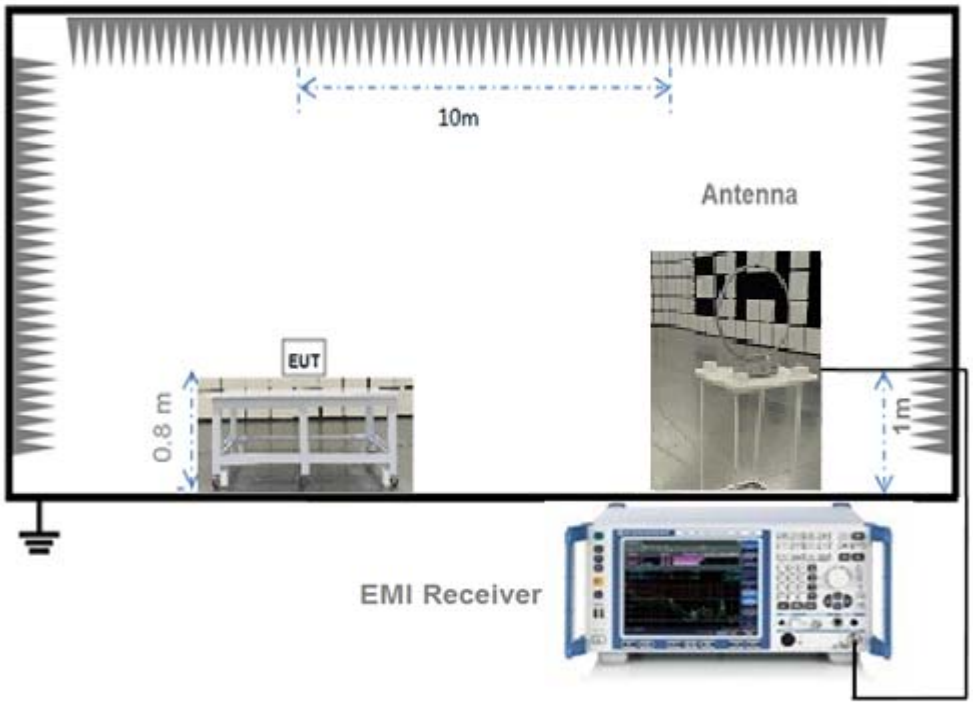
(Diagram 1)

4.5.2 For AC Power Supply Port Test



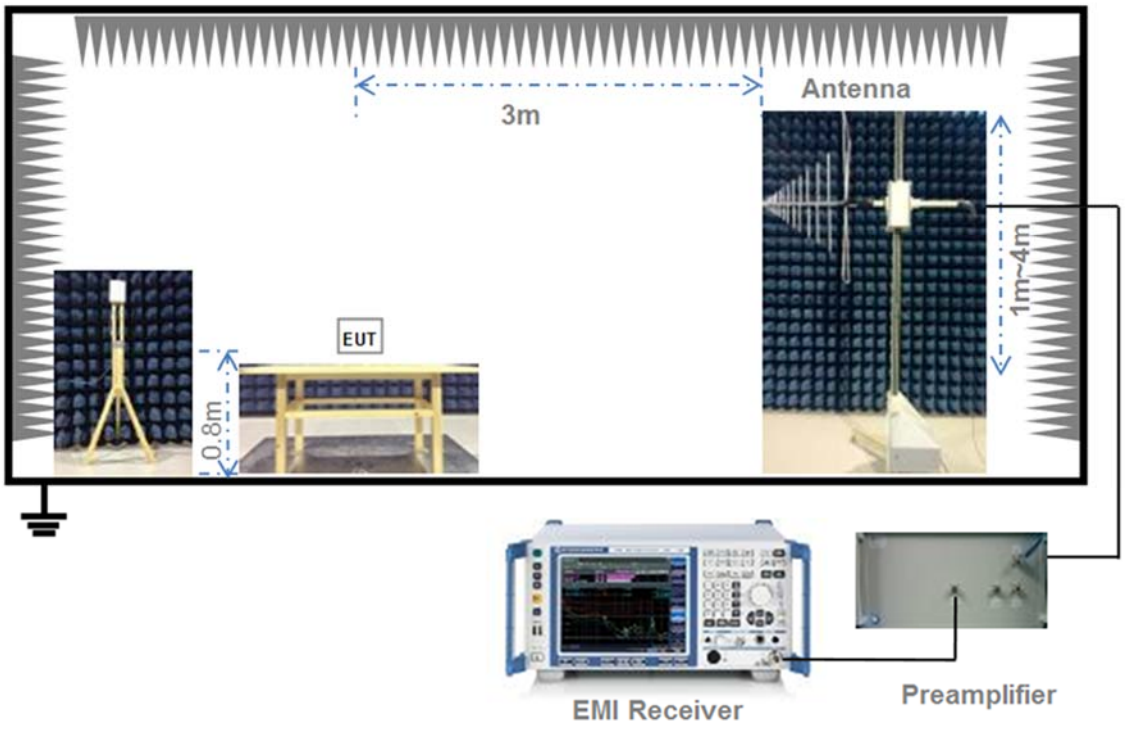
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



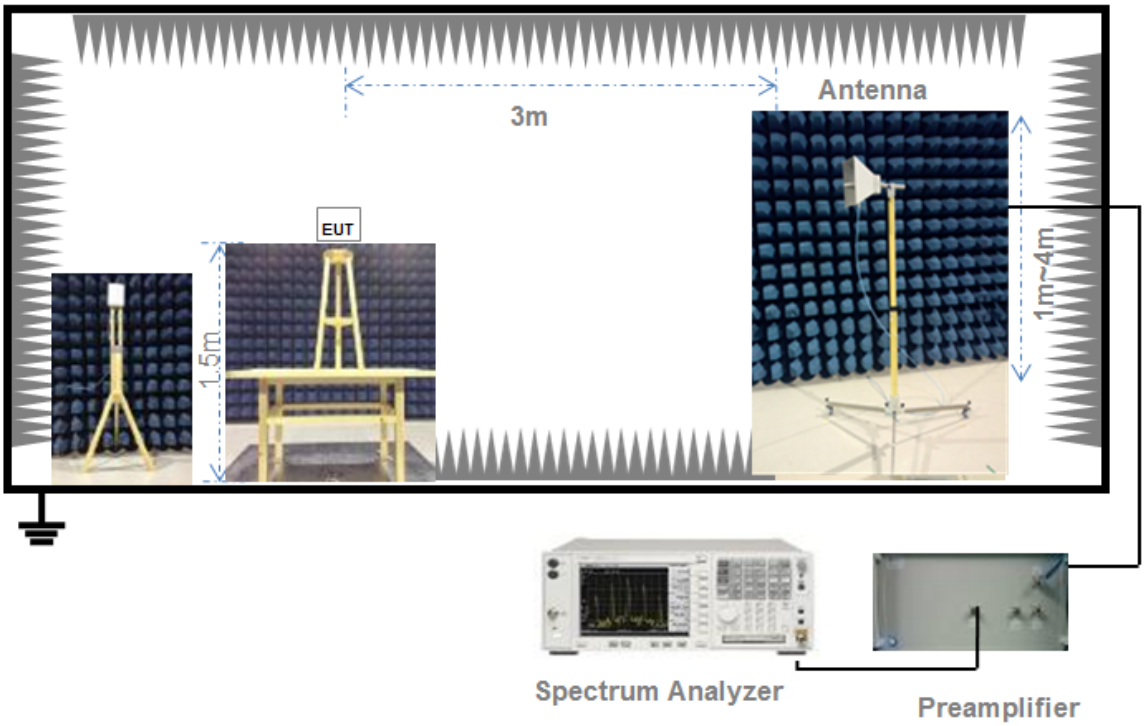
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

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

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.

2. Set VBW ≥ 3*RBW,

3. Detector = Peak.

4. Trace mode = Max hold.

5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW

2. Set RBW = 1% to 5% of the OBW.

3. Set VBW ≥ 3*RBW, Detector = Peak.

4. Trace mode = Max hold.

5. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.

2. Detector = Peak.Trace mode = Max hold.

3. Allow the trace to stabilize.

4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

The section 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

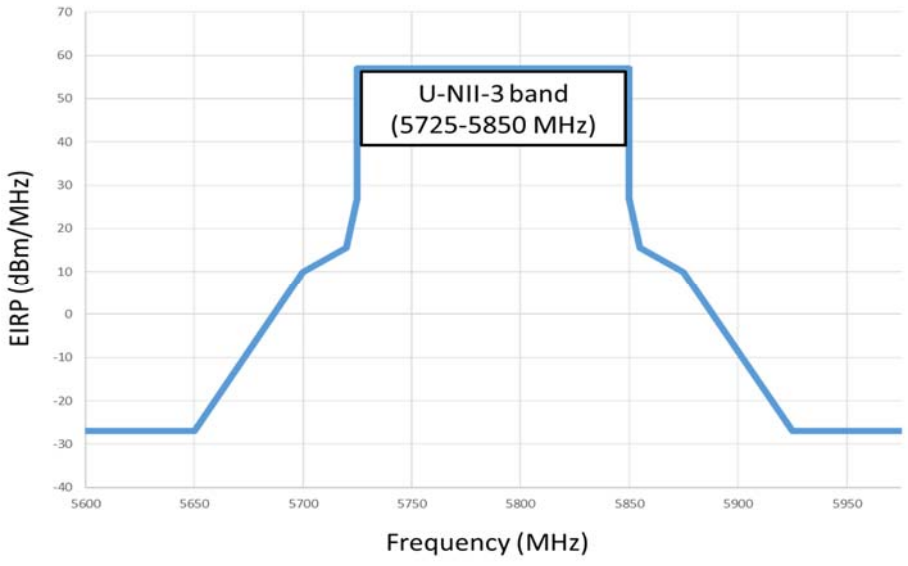
5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

5.5.1 Limit

FCC §15.209 & 15.407(b)

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note [1]: The Limit for radiated test was performed according to FCC Part 15C
Note [2]: The tighter limit applies at the band edge.

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 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test

setup please refer to ANNEX B.

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

b) Add the 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: 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	17.21	52.60	250	Pass
11a	CH44	17.16	52.00	250	Pass
11a	CH48	17.12	51.52	250	Pass
11n (HT20)	CH36	17.14	51.76	250	Pass
11n (HT20)	CH44	17.03	50.47	250	Pass
11n (HT20)	CH48	17.16	52.00	250	Pass
11n (HT40)	CH38	17.21	52.60	250	Pass
11n (HT40)	CH46	17.01	50.23	250	Pass
11ac (VHT20)	CH36	17.12	51.52	250	Pass
11ac (VHT20)	CH44	17.10	51.29	250	Pass
11ac (VHT20)	CH48	17.04	50.58	250	Pass
11ac (VHT40)	CH38	17.13	51.64	250	Pass
11ac (VHT40)	CH46	17.13	51.64	250	Pass
11ac (VHT80)	CH42	15.45	35.08	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.02	50.35	1000	Pass
11a	CH157	17.03	50.47	1000	Pass
11a	CH165	17.18	52.24	1000	Pass
11n (HT20)	CH149	16.91	49.09	1000	Pass
11n (HT20)	CH157	17.31	53.83	1000	Pass
11n (HT20)	CH165	17.15	51.88	1000	Pass
11n (HT40)	CH151	17.29	53.58	1000	Pass
11n (HT40)	CH159	17.23	52.84	1000	Pass
11ac (VHT20)	CH149	17.35	54.33	1000	Pass
11ac (VHT20)	CH157	17.11	51.40	1000	Pass
11ac (VHT20)	CH165	17.23	52.84	1000	Pass
11ac (VHT40)	CH151	17.16	52.00	1000	Pass
11ac (VHT40)	CH159	17.27	53.33	1000	Pass
11ac (VHT80)	CH155	16.54	45.08	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2210449-602 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	20.94	16.63
11a	CH44	20.93	16.60
11a	CH48	20.80	16.56
11n (HT20)	CH36	21.64	17.72
11n (HT20)	CH44	21.61	17.71
11n (HT20)	CH48	21.68	17.72
11n (HT40)	CH38	43.16	36.25
11n (HT40)	CH46	42.04	36.23
11ac (VHT20)	CH36	21.64	17.73
11ac (VHT20)	CH44	21.67	17.73
11ac (VHT20)	CH48	21.56	17.69
11ac (VHT40)	CH38	43.09	36.24
11ac (VHT40)	CH46	43.47	36.25
11ac (VHT80)	CH42	82.69	75.66

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.91	16.58
11a	CH157	20.32	16.55
11a	CH165	20.25	16.58
11n (HT20)	CH149	21.59	17.70
11n (HT20)	CH157	21.61	17.71
11n (HT20)	CH165	21.46	17.68
11n (HT40)	CH151	42.09	36.23
11n (HT40)	CH159	42.10	36.24
11ac (VHT20)	CH149	21.59	17.71
11ac (VHT20)	CH157	21.62	17.71
11ac (VHT20)	CH165	21.52	17.68
11ac (VHT40)	CH151	41.99	36.23
11ac (VHT40)	CH159	41.96	36.22
11ac (VHT80)	CH155	82.99	75.70

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2210449-602 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.60	500.00	Pass
11a	CH157	16.66	500.00	Pass
11a	CH165	16.65	500.00	Pass
11n (HT20)	CH149	17.75	500.00	Pass
11n (HT20)	CH157	17.70	500.00	Pass
11n (HT20)	CH165	17.75	500.00	Pass
11n (HT40)	CH151	36.50	500.00	Pass
11n (HT40)	CH159	36.50	500.00	Pass
11ac (VHT20)	CH149	17.80	500.00	Pass
11ac (VHT20)	CH157	17.75	500.00	Pass
11ac (VHT20)	CH165	17.80	500.00	Pass
11ac (VHT40)	CH151	36.50	500.00	Pass
11ac (VHT40)	CH159	36.50	500.00	Pass
11ac (VHT80)	CH155	76.40	500.00	Pass

A.4 Power Spectral Density

Note [1]: Test plots please refer to the document “Annex No.: BL-SZ2210449-602 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	3.69	11.00	Pass
11a	CH44	3.93	11.00	Pass
11a	CH48	3.32	11.00	Pass
11n (HT20)	CH36	3.34	11.00	Pass
11n (HT20)	CH44	3.62	11.00	Pass
11n (HT20)	CH48	3.62	11.00	Pass
11n (HT40)	CH38	0.89	11.00	Pass
11n (HT40)	CH46	0.19	11.00	Pass
11ac (VHT20)	CH36	3.48	11.00	Pass
11ac (VHT20)	CH44	3.86	11.00	Pass
11ac (VHT20)	CH48	3.24	11.00	Pass
11ac (VHT40)	CH38	0.73	11.00	Pass
11ac (VHT40)	CH46	0.46	11.00	Pass
11ac (VHT80)	CH42	-2.73	11.00	Pass

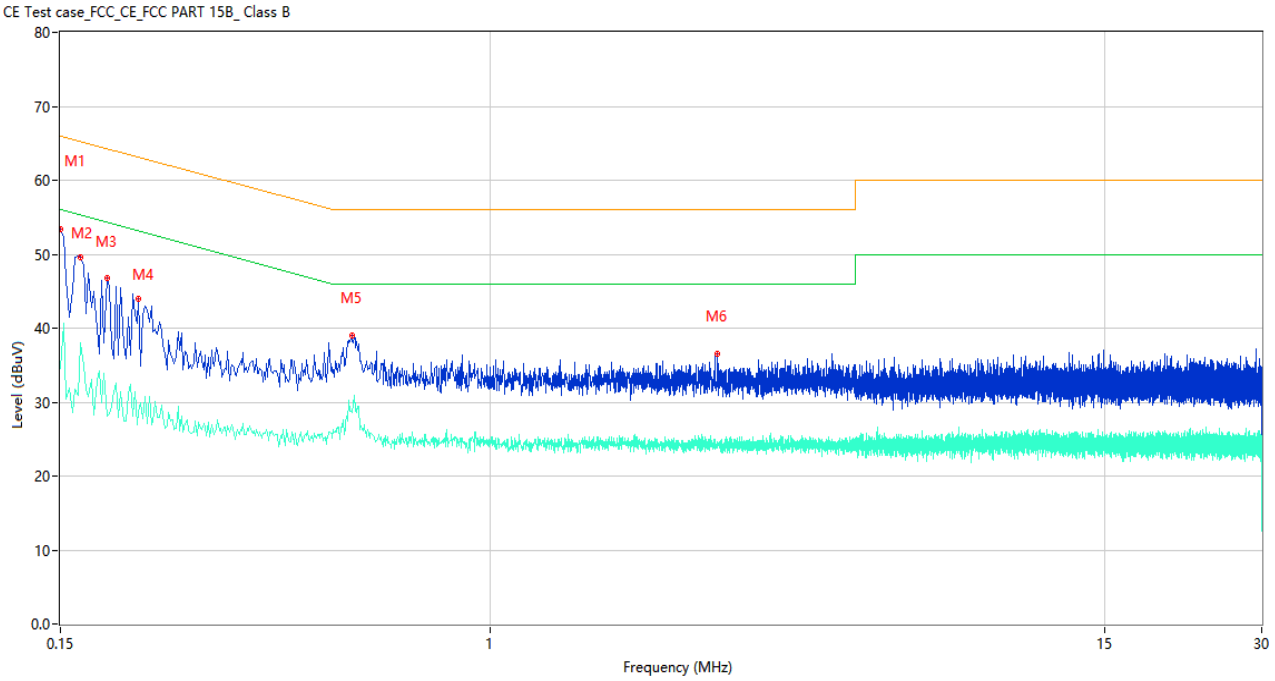
U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	0.48	30.00	Pass
11a	CH157	0.22	30.00	Pass
11a	CH165	0.34	30.00	Pass
11n (HT20)	CH149	0.25	30.00	Pass
11n (HT20)	CH157	0.39	30.00	Pass
11n (HT20)	CH165	0.16	30.00	Pass
11n (HT40)	CH151	-2.87	30.00	Pass
11n (HT40)	CH159	-2.76	30.00	Pass
11ac (VHT20)	CH149	0.26	30.00	Pass
11ac (VHT20)	CH157	0.37	30.00	Pass
11ac (VHT20)	CH165	-0.01	30.00	Pass
11ac (VHT40)	CH151	-2.69	30.00	Pass
11ac (VHT40)	CH159	-3.09	30.00	Pass
11ac (VHT80)	CH155	-5.62	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.

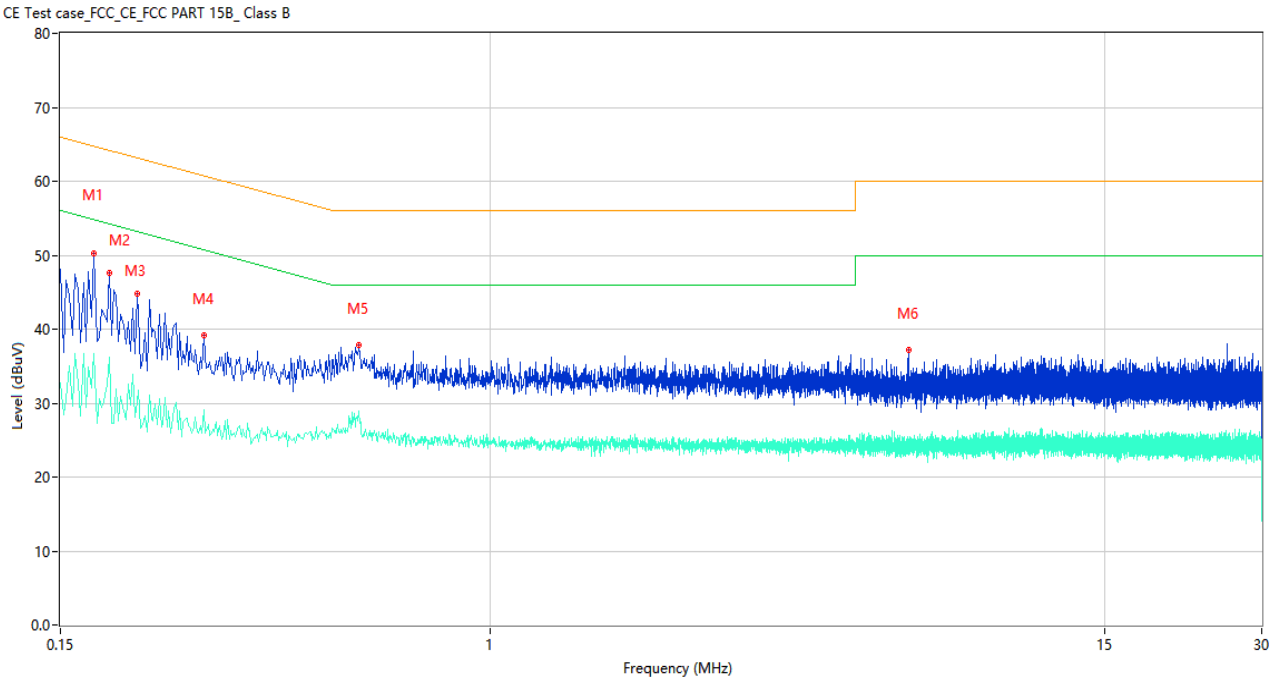
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	53.44	11.00	66.00	-12.56	Peak	L	Pass
1**	0.150	34.58	11.00	56.00	-21.42	AV	L	Pass
2	0.164	49.67	10.98	65.26	-15.59	Peak	L	Pass
2**	0.164	37.94	10.98	55.26	-17.32	AV	L	Pass
3	0.184	46.79	10.97	64.30	-17.51	Peak	L	Pass
3**	0.184	28.05	10.97	54.30	-26.25	AV	L	Pass
4	0.212	44.04	10.95	63.13	-19.09	Peak	L	Pass
4**	0.212	28.71	10.95	53.13	-24.42	AV	L	Pass
5	0.542	39.07	10.90	56.00	-16.93	Peak	L	Pass
5**	0.542	28.78	10.90	46.00	-17.22	AV	L	Pass
6	2.722	36.59	10.71	56.00	-19.41	Peak	L	Pass
6**	2.722	24.33	10.71	46.00	-21.67	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.172	41.71	10.98	64.86	-23.15	Peak	N	Pass
1**	0.172	32.10	10.98	54.86	-22.76	AV	N	Pass
2	0.186	47.53	10.97	64.21	-16.68	Peak	N	Pass
2**	0.186	36.20	10.97	54.21	-18.01	AV	N	Pass
3	0.210	44.83	10.95	63.21	-18.38	Peak	N	Pass
3**	0.210	30.16	10.95	53.21	-23.05	AV	N	Pass
4	0.282	39.18	10.89	60.76	-21.58	Peak	N	Pass
4**	0.282	29.15	10.89	50.76	-21.61	AV	N	Pass
5	0.560	37.89	10.89	56.00	-18.11	Peak	N	Pass
5**	0.560	28.73	10.89	46.00	-17.27	AV	N	Pass
6	6.320	37.15	10.70	60.00	-22.85	Peak	N	Pass
6**	6.320	23.78	10.70	50.00	-26.22	AV	N	Pass

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

Test Data

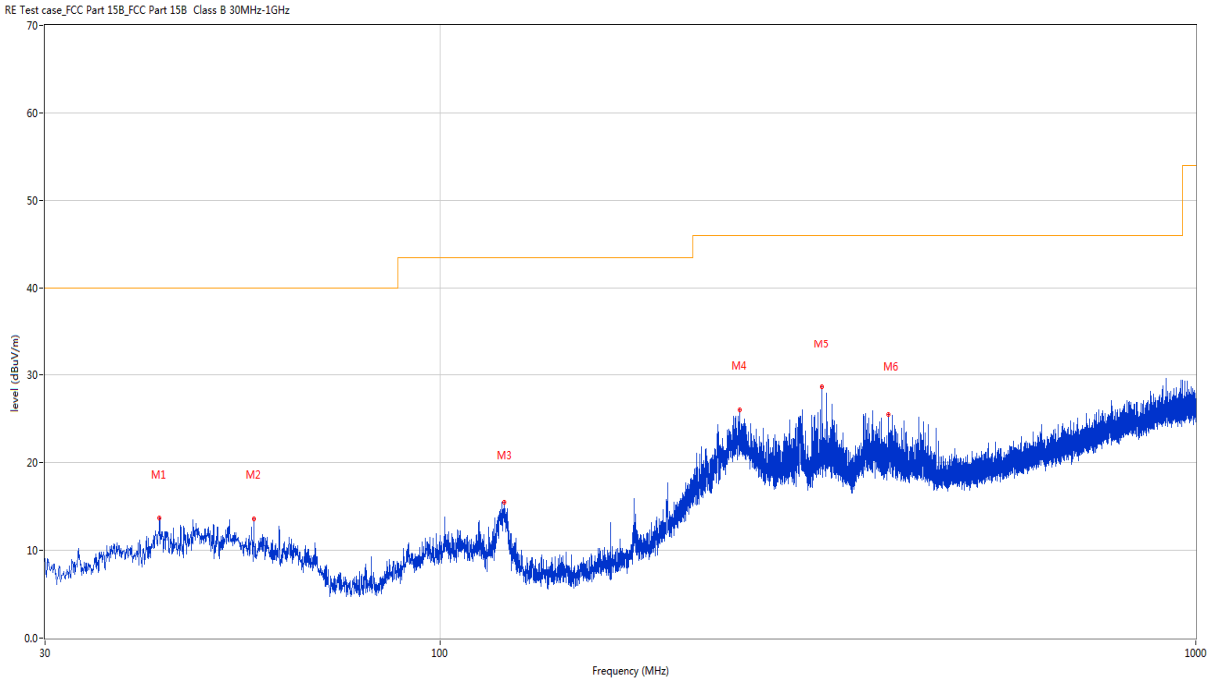
Note [1]: The symbol of "--" in the table which means not application.

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.

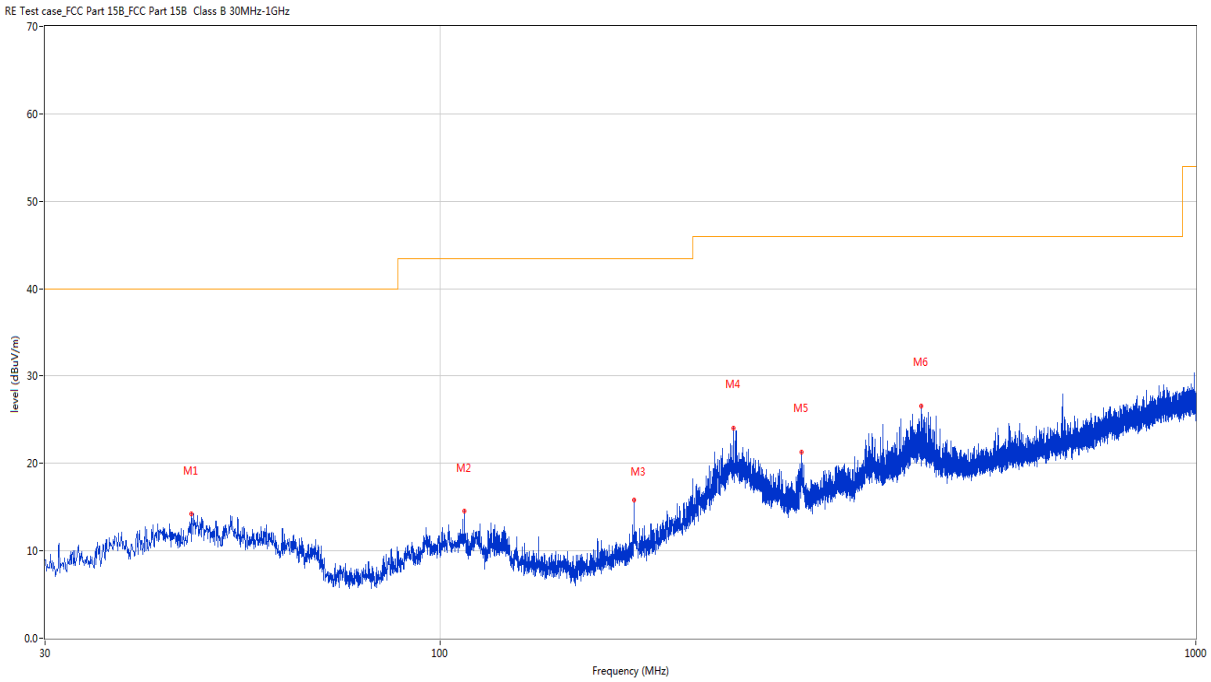
Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

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	42.513	13.68	-23.42	40.0	-26.32	Peak	332.50	100	Horizontal	Pass
2	56.675	13.58	-23.75	40.0	-26.42	Peak	356.30	100	Horizontal	Pass
3	121.568	15.44	-25.85	43.5	-28.06	Peak	232.40	100	Horizontal	Pass
4	249.171	26.01	-22.93	46.0	-19.99	Peak	265.70	100	Horizontal	Pass
5	320.321	28.58	-21.18	46.0	-17.42	Peak	359.20	100	Horizontal	Pass
6	392.101	25.49	-19.28	46.0	-20.51	Peak	207.90	100	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	46.878	14.18	-22.90	40.0	-25.82	Peak	0.90	100	Vertical	Pass
2	107.600	14.49	-24.28	43.5	-29.01	Peak	176.50	100	Vertical	Pass
3	180.690	15.74	-25.97	43.5	-27.76	Peak	222.70	100	Vertical	Pass
4	244.224	23.97	-22.80	46.0	-22.03	Peak	197.60	200	Vertical	Pass
5	300.873	21.30	-21.71	46.0	-24.70	Peak	311.80	200	Vertical	Pass
6	432.890	26.49	-18.12	46.0	-19.51	Peak	346.80	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	1115.500	36.69	-18.59	74.0	-37.31	Peak	312.00	150	Horizontal	Pass
1**	1115.500	26.86	-18.59	54.0	-27.14	AV	312.00	150	Horizontal	Pass
2	2789.400	43.94	-10.58	74.0	-30.06	Peak	295.00	150	Horizontal	Pass
2**	2789.400	35.09	-10.58	54.0	-18.91	AV	295.00	150	Horizontal	Pass
3	4799.400	51.86	-2.55	74.0	-22.14	Peak	12.00	150	Horizontal	Pass
3**	4799.400	43.27	-2.55	54.0	-10.73	AV	12.00	150	Horizontal	Pass
4	5173.400	92.56	-2.89	--	--	Peak	153.00	150	Horizontal	N/A
4**	5173.400	85.32	-2.89	--	--	AV	153.00	150	Horizontal	N/A
5	11553.424	52.69	-0.43	74.0	-21.31	Peak	108.00	150	Horizontal	Pass
5**	11553.424	43.44	-0.43	54.0	-10.56	AV	108.00	150	Horizontal	Pass
6	15858.525	56.96	1.01	74.0	-17.04	Peak	283.00	150	Horizontal	Pass
6**	15858.525	46.73	1.01	54.0	-7.27	AV	283.00	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	1161.000	37.75	-18.03	74.0	-36.25	Peak	257.00	150	Vertical	Pass
1**	1161.000	28.56	-18.03	54.0	-25.44	AV	257.00	150	Vertical	Pass
2	2791.100	46.96	-10.64	74.0	-27.04	Peak	223.00	150	Vertical	Pass
2**	2791.100	34.64	-10.64	54.0	-19.36	AV	223.00	150	Vertical	Pass
3	4794.000	51.65	-2.58	74.0	-22.35	Peak	84.00	150	Vertical	Pass
3**	4794.000	43.15	-2.58	54.0	-10.85	AV	84.00	150	Vertical	Pass
4	5187.000	107.08	-2.73	--	--	Peak	274.00	150	Vertical	N/A
4**	5187.000	99.49	-2.73	--	--	AV	274.00	150	Vertical	N/A
5	11634.787	53.04	-0.21	74.0	-20.96	Peak	92.00	150	Vertical	Pass
5**	11634.787	43.81	-0.21	54.0	-10.19	AV	92.00	150	Vertical	Pass
6	15841.463	55.92	1.42	74.0	-18.08	Peak	40.00	150	Vertical	Pass
6**	15841.463	46.86	1.42	54.0	-7.14	AV	40.00	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	1145.900	36.63	-18.20	74.0	-37.37	Peak	123.00	150	Horizontal	Pass
1**	1145.900	27.76	-18.20	54.0	-26.24	AV	123.00	150	Horizontal	Pass
2	2803.600	43.94	-10.41	74.0	-30.06	Peak	312.00	150	Horizontal	Pass
2**	2803.600	35.56	-10.41	54.0	-18.44	AV	312.00	150	Horizontal	Pass
3	4810.600	51.53	-3.00	74.0	-22.47	Peak	298.00	150	Horizontal	Pass
3**	4810.600	42.56	-3.00	54.0	-11.44	AV	298.00	150	Horizontal	Pass
4	5214.400	93.43	-2.84	--	--	Peak	156.00	150	Horizontal	N/A
4**	5214.400	86.95	-2.84	--	--	AV	156.00	150	Horizontal	N/A
5	11714.713	52.90	0.75	74.0	-21.10	Peak	0.00	150	Horizontal	Pass
5**	11714.713	42.67	0.75	54.0	-11.33	AV	0.00	150	Horizontal	Pass
6	15627.525	55.19	1.71	74.0	-18.81	Peak	195.00	150	Horizontal	Pass
6**	15627.525	46.75	1.71	54.0	-7.25	AV	195.00	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	1163.600	39.93	-18.05	74.0	-34.07	Peak	57.00	150	Vertical	Pass
1**	1163.600	28.29	-18.05	54.0	-25.71	AV	57.00	150	Vertical	Pass
2	2799.800	44.96	-10.56	74.0	-29.04	Peak	227.00	150	Vertical	Pass
2**	2799.800	36.91	-10.56	54.0	-17.09	AV	227.00	150	Vertical	Pass
3	4722.800	51.55	-3.77	74.0	-22.45	Peak	87.00	150	Vertical	Pass
3**	4722.800	41.36	-3.77	54.0	-12.64	AV	87.00	150	Vertical	Pass
4	5225.800	107.53	-3.05	--	--	Peak	157.00	150	Vertical	N/A
4**	5225.800	99.90	-3.05	--	--	AV	157.00	150	Vertical	N/A
5	11703.500	52.29	0.41	74.0	-21.71	Peak	325.00	150	Vertical	Pass
5**	11703.500	43.81	0.41	54.0	-10.19	AV	325.00	150	Vertical	Pass
6	15811.537	55.78	2.13	74.0	-18.22	Peak	347.00	150	Vertical	Pass
6**	15811.537	46.84	2.13	54.0	-7.16	AV	347.00	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	1100.100	36.54	-18.57	74.0	-37.46	Peak	259.00	150	Horizontal	Pass
1**	1100.100	27.40	-18.57	54.0	-26.60	AV	259.00	150	Horizontal	Pass
2	2796.400	43.90	-10.62	74.0	-30.10	Peak	102.00	150	Horizontal	Pass
2**	2796.400	34.49	-10.62	54.0	-19.51	AV	102.00	150	Horizontal	Pass
3	4708.800	50.97	-3.95	74.0	-23.03	Peak	89.00	150	Horizontal	Pass
3**	4708.800	43.00	-3.95	54.0	-11.00	AV	89.00	150	Horizontal	Pass
4	5233.800	93.36	-2.81	--	--	Peak	159.00	150	Horizontal	N/A
4**	5233.800	85.70	-2.81	--	--	AV	159.00	150	Horizontal	N/A
5	11451.362	53.20	-0.06	74.0	-20.80	Peak	322.00	150	Horizontal	Pass
5**	11451.362	42.61	-0.06	54.0	-11.39	AV	322.00	150	Horizontal	Pass
6	15854.063	56.33	1.22	74.0	-17.67	Peak	330.00	150	Horizontal	Pass
6**	15854.063	46.98	1.22	54.0	-7.02	AV	330.00	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	1166.800	40.26	-18.18	74.0	-33.74	Peak	46.00	150	Vertical	Pass
1**	1166.800	27.36	-18.18	54.0	-26.64	AV	46.00	150	Vertical	Pass
2	2822.100	45.88	-10.24	74.0	-28.12	Peak	239.00	150	Vertical	Pass
2**	2822.100	34.96	-10.24	54.0	-19.04	AV	239.00	150	Vertical	Pass
3	4872.400	51.50	-3.30	74.0	-22.50	Peak	69.00	150	Vertical	Pass
3**	4872.400	42.89	-3.30	54.0	-11.11	AV	69.00	150	Vertical	Pass
4	5245.600	106.63	-2.67	--	--	Peak	268.00	150	Vertical	N/A
4**	5245.600	99.65	-2.67	--	--	AV	268.00	150	Vertical	N/A
5	11488.162	53.25	0.07	74.0	-20.75	Peak	66.00	150	Vertical	Pass
5**	11488.162	43.39	0.07	54.0	-10.61	AV	66.00	150	Vertical	Pass
6	15642.750	55.48	1.29	74.0	-18.52	Peak	263.00	150	Vertical	Pass
6**	15642.750	46.08	1.29	54.0	-7.92	AV	263.00	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	1093.900	37.64	-18.53	74.0	-36.36	Peak	289.00	150	Horizontal	Pass
1**	1093.900	26.33	-18.53	54.0	-27.67	AV	289.00	150	Horizontal	Pass
2	2831.800	43.94	-10.35	74.0	-30.06	Peak	164.00	150	Horizontal	Pass
2**	2831.800	34.67	-10.35	54.0	-19.33	AV	164.00	150	Horizontal	Pass
3	4800.400	51.56	-2.56	74.0	-22.44	Peak	34.00	150	Horizontal	Pass
3**	4800.400	43.88	-2.56	54.0	-10.12	AV	34.00	150	Horizontal	Pass
4	5173.200	92.55	-2.88	--	--	Peak	163.00	150	Horizontal	N/A
4**	5173.200	85.47	-2.88	--	--	AV	163.00	150	Horizontal	N/A
5	11657.500	52.70	0.05	74.0	-21.30	Peak	33.00	150	Horizontal	Pass
5**	11657.500	43.01	0.05	54.0	-10.99	AV	33.00	150	Horizontal	Pass
6	15491.287	56.18	0.97	74.0	-17.82	Peak	61.00	150	Horizontal	Pass
6**	15491.287	45.94	0.97	54.0	-8.06	AV	61.00	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	1165.300	41.87	-18.11	74.0	-32.13	Peak	80.00	150	Vertical	Pass
1**	1165.300	27.84	-18.11	54.0	-26.16	AV	80.00	150	Vertical	Pass
2	2821.100	46.31	-10.21	74.0	-27.69	Peak	222.00	150	Vertical	Pass
2**	2821.100	33.83	-10.21	54.0	-20.17	AV	222.00	150	Vertical	Pass
3	4767.400	51.52	-3.22	74.0	-22.48	Peak	248.00	150	Vertical	Pass
3**	4767.400	41.93	-3.22	54.0	-12.07	AV	248.00	150	Vertical	Pass
4	5184.400	106.47	-2.83	--	--	Peak	267.00	150	Vertical	N/A
4**	5184.400	98.74	-2.83	--	--	AV	267.00	150	Vertical	N/A
5	11156.388	52.99	-0.88	74.0	-21.01	Peak	305.00	150	Vertical	Pass
5**	11156.388	42.37	-0.88	54.0	-11.63	AV	305.00	150	Vertical	Pass
6	15624.112	55.92	1.71	74.0	-18.08	Peak	18.00	150	Vertical	Pass
6**	15624.112	46.84	1.71	54.0	-7.16	AV	18.00	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	1152.000	36.94	-17.95	74.0	-37.06	Peak	216.00	150	Horizontal	Pass
1**	1152.000	27.84	-17.95	54.0	-26.16	AV	216.00	150	Horizontal	Pass
2	2788.300	44.58	-10.56	74.0	-29.42	Peak	289.00	150	Horizontal	Pass
2**	2788.300	34.41	-10.56	54.0	-19.59	AV	289.00	150	Horizontal	Pass
3	4834.600	51.82	-3.46	74.0	-22.18	Peak	15.00	150	Horizontal	Pass
3**	4834.600	42.45	-3.46	54.0	-11.55	AV	15.00	150	Horizontal	Pass
4	5215.600	93.65	-2.85	--	--	Peak	168.00	150	Horizontal	N/A
4**	5215.600	85.41	-2.85	--	--	AV	168.00	150	Horizontal	N/A
5	11553.424	52.08	-0.43	74.0	-21.92	Peak	126.00	150	Horizontal	Pass
5**	11553.424	43.22	-0.43	54.0	-10.78	AV	126.00	150	Horizontal	Pass
6	15800.250	55.84	2.33	74.0	-18.16	Peak	122.00	150	Horizontal	Pass
6**	15800.250	46.51	2.33	54.0	-7.49	AV	122.00	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	1163.500	38.21	-18.05	74.0	-35.79	Peak	43.00	150	Vertical	Pass
1**	1163.500	27.61	-18.05	54.0	-26.39	AV	43.00	150	Vertical	Pass
2	2833.900	44.73	-10.36	74.0	-29.27	Peak	250.00	150	Vertical	Pass
2**	2833.900	34.06	-10.36	54.0	-19.94	AV	250.00	150	Vertical	Pass
3	4831.400	51.84	-3.54	74.0	-22.16	Peak	55.00	150	Vertical	Pass
3**	4831.400	42.62	-3.54	54.0	-11.38	AV	55.00	150	Vertical	Pass
4	5226.200	106.77	-3.02	--	--	Peak	271.00	150	Vertical	N/A
4**	5226.200	98.73	-3.02	--	--	AV	271.00	150	Vertical	N/A
5	11548.537	52.32	-0.49	74.0	-21.68	Peak	115.00	150	Vertical	Pass
5**	11548.537	43.60	-0.49	54.0	-10.40	AV	115.00	150	Vertical	Pass
6	15832.537	55.64	1.47	74.0	-18.36	Peak	302.00	150	Vertical	Pass
6**	15832.537	46.77	1.47	54.0	-7.23	AV	302.00	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	1130.300	36.61	-18.36	74.0	-37.39	Peak	98.00	150	Horizontal	Pass
1**	1130.300	28.29	-18.36	54.0	-25.71	AV	98.00	150	Horizontal	Pass
2	2812.000	43.62	-10.13	74.0	-30.38	Peak	98.00	150	Horizontal	Pass
2**	2812.000	34.86	-10.13	54.0	-19.14	AV	98.00	150	Horizontal	Pass
3	4768.400	52.10	-3.18	74.0	-21.90	Peak	74.00	150	Horizontal	Pass
3**	4768.400	43.21	-3.18	54.0	-10.79	AV	74.00	150	Horizontal	Pass
4	5246.600	93.51	-2.72	--	--	Peak	156.00	150	Horizontal	N/A
4**	5246.600	87.14	-2.72	--	--	AV	156.00	150	Horizontal	N/A
5	11443.599	52.57	-0.04	74.0	-21.43	Peak	0.00	150	Horizontal	Pass
5**	11443.599	42.88	-0.04	54.0	-11.12	AV	0.00	150	Horizontal	Pass
6	15824.400	55.81	1.67	74.0	-18.19	Peak	360.00	150	Horizontal	Pass
6**	15824.400	46.53	1.67	54.0	-7.47	AV	360.00	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	1165.700	40.23	-18.13	74.0	-33.77	Peak	82.00	150	Vertical	Pass
1**	1165.700	29.66	-18.13	54.0	-24.34	AV	82.00	150	Vertical	Pass
2	2828.400	45.71	-10.35	74.0	-28.29	Peak	231.00	150	Vertical	Pass
2**	2828.400	35.52	-10.35	54.0	-18.48	AV	231.00	150	Vertical	Pass
3	4903.400	52.27	-2.64	74.0	-21.73	Peak	75.00	150	Vertical	Pass
3**	4903.400	43.18	-2.64	54.0	-10.82	AV	75.00	150	Vertical	Pass
4	5246.800	106.52	-2.72	--	--	Peak	270.00	150	Vertical	N/A
4**	5246.800	99.25	-2.72	--	--	AV	270.00	150	Vertical	N/A
5	11606.038	52.78	-0.01	74.0	-21.22	Peak	56.00	150	Vertical	Pass
5**	11606.038	43.18	-0.01	54.0	-10.82	AV	56.00	150	Vertical	Pass
6	15847.763	55.94	1.35	74.0	-18.06	Peak	340.00	150	Vertical	Pass
6**	15847.763	47.14	1.35	54.0	-6.86	AV	340.00	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	1179.400	38.39	-18.02	74.0	-35.61	Peak	0.00	150	Horizontal	Pass
1**	1179.400	27.68	-18.02	54.0	-26.32	AV	0.00	150	Horizontal	Pass
2	2811.700	43.89	-10.15	74.0	-30.11	Peak	360.00	150	Horizontal	Pass
2**	2811.700	34.59	-10.15	54.0	-19.41	AV	360.00	150	Horizontal	Pass
3	4797.200	51.61	-2.63	74.0	-22.39	Peak	36.00	150	Horizontal	Pass
3**	4797.200	42.79	-2.63	54.0	-11.21	AV	36.00	150	Horizontal	Pass
4	5205.000	90.65	-2.48	--	--	Peak	152.00	150	Horizontal	N/A
4**	5205.000	82.48	-2.48	--	--	AV	152.00	150	Horizontal	N/A
5	11644.849	52.06	-0.20	74.0	-21.94	Peak	36.00	150	Horizontal	Pass
5**	11644.849	43.49	-0.20	54.0	-10.51	AV	36.00	150	Horizontal	Pass
6	15848.549	55.71	1.34	74.0	-18.29	Peak	44.00	150	Horizontal	Pass
6**	15848.549	47.80	1.34	54.0	-6.20	AV	44.00	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	1162.800	41.03	-18.03	74.0	-32.97	Peak	74.00	150	Vertical	Pass
1**	1162.800	33.40	-18.03	54.0	-20.60	AV	74.00	150	Vertical	Pass
2	2820.900	46.84	-10.21	74.0	-27.16	Peak	227.00	150	Vertical	Pass
2**	2820.900	35.05	-10.21	54.0	-18.95	AV	227.00	150	Vertical	Pass
3	4824.600	51.83	-3.41	74.0	-22.17	Peak	98.00	150	Vertical	Pass
3**	4824.600	43.12	-3.41	54.0	-10.88	AV	98.00	150	Vertical	Pass
4	5187.800	104.04	-2.70	--	--	Peak	277.00	150	Vertical	N/A
4**	5187.800	95.91	-2.70	--	--	AV	277.00	150	Vertical	N/A
5	11651.463	53.32	-0.12	74.0	-20.68	Peak	177.00	150	Vertical	Pass
5**	11651.463	44.06	-0.12	54.0	-9.94	AV	177.00	150	Vertical	Pass
6	15830.175	56.07	1.49	74.0	-17.93	Peak	250.00	150	Vertical	Pass
6**	15830.175	46.26	1.49	54.0	-7.74	AV	250.00	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	1166.500	36.85	-18.17	74.0	-37.15	Peak	343.00	150	Horizontal	Pass
1**	1166.500	28.40	-18.17	54.0	-25.60	AV	343.00	150	Horizontal	Pass
2	2789.100	44.23	-10.58	74.0	-29.77	Peak	166.00	150	Horizontal	Pass
2**	2789.100	35.05	-10.58	54.0	-18.95	AV	166.00	150	Horizontal	Pass
3	4799.600	51.49	-2.55	74.0	-22.51	Peak	339.00	150	Horizontal	Pass
3**	4799.600	42.94	-2.55	54.0	-11.06	AV	339.00	150	Horizontal	Pass
4	5215.600	90.22	-2.85	--	--	Peak	158.00	150	Horizontal	N/A
4**	5215.600	82.98	-2.85	--	--	AV	158.00	150	Horizontal	N/A
5	11675.325	52.93	0.26	74.0	-21.07	Peak	0.00	150	Horizontal	Pass
5**	11675.325	43.82	0.26	54.0	-10.18	AV	0.00	150	Horizontal	Pass
6	15856.425	55.94	1.12	74.0	-18.06	Peak	267.00	150	Horizontal	Pass
6**	15856.425	46.74	1.12	54.0	-7.26	AV	267.00	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	1162.600	38.30	-18.02	74.0	-35.70	Peak	286.00	150	Vertical	Pass
1**	1162.600	28.60	-18.02	54.0	-25.40	AV	286.00	150	Vertical	Pass
2	2827.700	44.57	-10.31	74.0	-29.43	Peak	96.00	150	Vertical	Pass
2**	2827.700	34.67	-10.31	54.0	-19.33	AV	96.00	150	Vertical	Pass
3	4802.600	51.87	-2.63	74.0	-22.13	Peak	38.00	150	Vertical	Pass
3**	4802.600	42.62	-2.63	54.0	-11.38	AV	38.00	150	Vertical	Pass
4	5245.000	103.67	-2.65	--	--	Peak	273.00	150	Vertical	N/A
4**	5245.000	96.46	-2.65	--	--	AV	273.00	150	Vertical	N/A
5	11489.025	52.63	0.07	74.0	-21.37	Peak	321.00	150	Vertical	Pass
5**	11489.025	42.83	0.07	54.0	-11.17	AV	321.00	150	Vertical	Pass
6	15846.974	55.96	1.35	74.0	-18.04	Peak	44.00	150	Vertical	Pass
6**	15846.974	47.23	1.35	54.0	-6.77	AV	44.00	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	1174.100	37.89	-18.02	74.0	-36.11	Peak	263.00	150	Horizontal	Pass
1**	1174.100	28.02	-18.02	54.0	-25.98	AV	263.00	150	Horizontal	Pass
2	2816.000	43.50	-10.15	74.0	-30.50	Peak	0.00	150	Horizontal	Pass
2**	2816.000	34.65	-10.15	54.0	-19.35	AV	0.00	150	Horizontal	Pass
3	4814.600	52.13	-3.08	74.0	-21.87	Peak	40.00	150	Horizontal	Pass
3**	4814.600	43.48	-3.08	54.0	-10.52	AV	40.00	150	Horizontal	Pass
4	5184.600	92.65	-2.84	--	--	Peak	165.00	150	Horizontal	N/A
4**	5184.600	84.73	-2.84	--	--	AV	165.00	150	Horizontal	N/A
5	11603.738	52.17	-0.01	74.0	-21.83	Peak	149.00	150	Horizontal	Pass
5**	11603.738	43.24	-0.01	54.0	-10.76	AV	149.00	150	Horizontal	Pass
6	15804.713	55.98	2.27	74.0	-18.02	Peak	214.00	150	Horizontal	Pass
6**	15804.713	46.37	2.27	54.0	-7.63	AV	214.00	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	1166.800	41.55	-18.18	74.0	-32.45	Peak	257.00	150	Vertical	Pass
1**	1166.800	28.02	-18.18	54.0	-25.98	AV	257.00	150	Vertical	Pass
2	2825.300	44.77	-10.29	74.0	-29.23	Peak	39.00	150	Vertical	Pass
2**	2825.300	34.70	-10.29	54.0	-19.30	AV	39.00	150	Vertical	Pass
3	4772.000	51.89	-3.01	74.0	-22.11	Peak	325.00	150	Vertical	Pass
3**	4772.000	41.69	-3.01	54.0	-12.31	AV	325.00	150	Vertical	Pass
4	5186.800	106.54	-2.74	--	--	Peak	263.00	150	Vertical	N/A
4**	5186.800	99.60	-2.74	--	--	AV	263.00	150	Vertical	N/A
5	11481.838	52.08	0.01	74.0	-21.92	Peak	255.00	150	Vertical	Pass
5**	11481.838	43.30	0.01	54.0	-10.70	AV	255.00	150	Vertical	Pass
6	15854.588	55.72	1.20	74.0	-18.28	Peak	45.00	150	Vertical	Pass
6**	15854.588	47.17	1.20	54.0	-6.83	AV	45.00	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	1084.000	36.93	-18.54	74.0	-37.07	Peak	98.00	150	Horizontal	Pass
1**	1084.000	27.87	-18.54	54.0	-26.13	AV	98.00	150	Horizontal	Pass
2	2773.700	43.88	-10.48	74.0	-30.12	Peak	279.00	150	Horizontal	Pass
2**	2773.700	34.79	-10.48	54.0	-19.21	AV	279.00	150	Horizontal	Pass
3	4785.800	51.21	-2.73	74.0	-22.79	Peak	217.00	150	Horizontal	Pass
3**	4785.800	43.70	-2.73	54.0	-10.30	AV	217.00	150	Horizontal	Pass
4	5214.600	94.04	-2.84	--	--	Peak	154.00	150	Horizontal	N/A
4**	5214.600	86.28	-2.84	--	--	AV	154.00	150	Horizontal	N/A
5	11453.088	52.64	-0.09	74.0	-21.36	Peak	191.00	150	Horizontal	Pass
5**	11453.088	42.64	-0.09	54.0	-11.36	AV	191.00	150	Horizontal	Pass
6	15841.200	56.66	1.43	74.0	-17.34	Peak	0.00	150	Horizontal	Pass
6**	15841.200	47.11	1.43	54.0	-6.89	AV	0.00	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	1161.900	41.03	-18.03	74.0	-32.97	Peak	64.00	150	Vertical	Pass
1**	1161.900	29.91	-18.03	54.0	-24.09	AV	64.00	150	Vertical	Pass
2	2820.400	45.15	-10.20	74.0	-28.85	Peak	223.00	150	Vertical	Pass
2**	2820.400	35.42	-10.20	54.0	-18.58	AV	223.00	150	Vertical	Pass
3	4854.400	52.28	-3.21	74.0	-21.72	Peak	59.00	150	Vertical	Pass
3**	4854.400	42.58	-3.21	54.0	-11.42	AV	59.00	150	Vertical	Pass
4	5226.800	106.83	-2.98	--	--	Peak	262.00	150	Vertical	N/A
4**	5226.800	99.42	-2.98	--	--	AV	262.00	150	Vertical	N/A
5	11729.662	52.27	0.86	74.0	-21.73	Peak	279.00	150	Vertical	Pass
5**	11729.662	43.75	0.86	54.0	-10.25	AV	279.00	150	Vertical	Pass
6	15625.687	56.27	1.72	74.0	-17.73	Peak	360.00	150	Vertical	Pass
6**	15625.687	46.87	1.72	54.0	-7.13	AV	360.00	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	1174.900	36.81	-18.01	74.0	-37.19	Peak	191.00	150	Horizontal	Pass
1**	1174.900	27.75	-18.01	54.0	-26.25	AV	191.00	150	Horizontal	Pass
2	2768.400	44.15	-10.67	74.0	-29.85	Peak	315.00	150	Horizontal	Pass
2**	2768.400	34.38	-10.67	54.0	-19.62	AV	315.00	150	Horizontal	Pass
3	4803.800	51.98	-2.73	74.0	-22.02	Peak	123.00	150	Horizontal	Pass
3**	4803.800	43.01	-2.73	54.0	-10.99	AV	123.00	150	Horizontal	Pass
4	5233.200	93.04	-2.83	--	--	Peak	145.00	150	Horizontal	N/A
4**	5233.200	85.55	-2.83	--	--	AV	145.00	150	Horizontal	N/A
5	11391.849	52.19	-0.20	74.0	-21.81	Peak	22.00	150	Horizontal	Pass
5**	11391.849	43.25	-0.20	54.0	-10.75	AV	22.00	150	Horizontal	Pass
6	15862.725	56.11	0.87	74.0	-17.89	Peak	336.00	150	Horizontal	Pass
6**	15862.725	46.90	0.87	54.0	-7.10	AV	336.00	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	1163.400	39.68	-18.05	74.0	-34.32	Peak	278.00	150	Vertical	Pass
1**	1163.400	29.53	-18.05	54.0	-24.47	AV	278.00	150	Vertical	Pass
2	2829.000	45.44	-10.36	74.0	-28.56	Peak	74.00	150	Vertical	Pass
2**	2829.000	35.12	-10.36	54.0	-18.88	AV	74.00	150	Vertical	Pass
3	4799.600	52.15	-2.55	74.0	-21.85	Peak	231.00	150	Vertical	Pass
3**	4799.600	42.77	-2.55	54.0	-11.23	AV	231.00	150	Vertical	Pass
4	5243.600	106.44	-2.67	--	--	Peak	273.00	150	Vertical	N/A
4**	5243.600	98.58	-2.67	--	--	AV	273.00	150	Vertical	N/A
5	11558.600	52.84	-0.44	74.0	-21.16	Peak	8.00	150	Vertical	Pass
5**	11558.600	43.89	-0.44	54.0	-10.11	AV	8.00	150	Vertical	Pass
6	15854.850	55.97	1.20	74.0	-18.03	Peak	233.00	150	Vertical	Pass
6**	15854.850	47.05	1.20	54.0	-6.95	AV	233.00	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	1099.000	36.65	-18.55	74.0	-37.35	Peak	116.00	150	Horizontal	Pass
1**	1099.000	26.99	-18.55	54.0	-27.01	AV	116.00	150	Horizontal	Pass
2	2827.800	44.53	-10.32	74.0	-29.47	Peak	55.00	150	Horizontal	Pass
2**	2827.800	34.24	-10.32	54.0	-19.76	AV	55.00	150	Horizontal	Pass
3	4917.200	53.11	-2.24	74.0	-20.89	Peak	334.00	150	Horizontal	Pass
3**	4917.200	43.62	-2.24	54.0	-10.38	AV	334.00	150	Horizontal	Pass
4	5205.400	90.16	-2.46	--	--	Peak	146.00	150	Horizontal	N/A
4**	5205.400	82.52	-2.46	--	--	AV	146.00	150	Horizontal	N/A
5	11452.512	53.15	-0.08	74.0	-20.85	Peak	254.00	150	Horizontal	Pass
5**	11452.512	42.31	-0.08	54.0	-11.69	AV	254.00	150	Horizontal	Pass
6	15853.275	56.50	1.24	74.0	-17.50	Peak	339.00	150	Horizontal	Pass
6**	15853.275	47.45	1.24	54.0	-6.55	AV	339.00	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	1164.300	40.67	-18.07	74.0	-33.33	Peak	87.00	150	Vertical	Pass
1**	1164.300	29.90	-18.07	54.0	-24.10	AV	87.00	150	Vertical	Pass
2	2846.000	44.67	-10.36	74.0	-29.33	Peak	232.00	150	Vertical	Pass
2**	2846.000	34.67	-10.36	54.0	-19.33	AV	232.00	150	Vertical	Pass
3	4801.400	51.76	-2.59	74.0	-22.24	Peak	272.00	150	Vertical	Pass
3**	4801.400	42.61	-2.59	54.0	-11.39	AV	272.00	150	Vertical	Pass
4	5192.600	103.61	-2.71	--	--	Peak	272.00	150	Vertical	N/A
4**	5192.600	96.19	-2.71	--	--	AV	272.00	150	Vertical	N/A
5	11675.612	52.57	0.25	74.0	-21.43	Peak	187.00	150	Vertical	Pass
5**	11675.612	43.74	0.25	54.0	-10.26	AV	187.00	150	Vertical	Pass
6	15852.488	56.69	1.26	74.0	-17.31	Peak	360.00	150	Vertical	Pass
6**	15852.488	46.92	1.26	54.0	-7.08	AV	360.00	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	1160.200	37.03	-18.05	74.0	-36.97	Peak	168.00	150	Horizontal	Pass
1**	1160.200	27.64	-18.05	54.0	-26.36	AV	168.00	150	Horizontal	Pass
2	2816.400	44.06	-10.16	74.0	-29.94	Peak	147.00	150	Horizontal	Pass
2**	2816.400	34.66	-10.16	54.0	-19.34	AV	147.00	150	Horizontal	Pass
3	4807.000	52.17	-3.00	74.0	-21.83	Peak	129.00	150	Horizontal	Pass
3**	4807.000	42.67	-3.00	54.0	-11.33	AV	129.00	150	Horizontal	Pass
4	5214.200	91.57	-2.84	--	--	Peak	173.00	150	Horizontal	N/A
4**	5214.200	83.37	-2.84	--	--	AV	173.00	150	Horizontal	N/A
5	11575.562	52.78	-0.39	74.0	-21.22	Peak	139.00	150	Horizontal	Pass
5**	11575.562	42.74	-0.39	54.0	-11.26	AV	139.00	150	Horizontal	Pass
6	15822.037	55.74	1.78	74.0	-18.26	Peak	112.00	150	Horizontal	Pass
6**	15822.037	47.09	1.78	54.0	-6.91	AV	112.00	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	1165.400	42.03	-18.12	74.0	-31.97	Peak	68.00	150	Vertical	Pass
1**	1165.400	27.99	-18.12	54.0	-26.01	AV	68.00	150	Vertical	Pass
2	2828.000	46.79	-10.33	74.0	-27.21	Peak	234.00	150	Vertical	Pass
2**	2828.000	35.06	-10.33	54.0	-18.94	AV	234.00	150	Vertical	Pass
3	4653.200	50.75	-3.66	74.0	-23.25	Peak	85.00	150	Vertical	Pass
3**	4653.200	41.17	-3.66	54.0	-12.83	AV	85.00	150	Vertical	Pass
4	5232.400	104.10	-2.87	--	--	Peak	148.00	150	Vertical	N/A
4**	5232.400	96.07	-2.87	--	--	AV	148.00	150	Vertical	N/A
5	11390.987	52.47	-0.21	74.0	-21.53	Peak	0.00	150	Vertical	Pass
5**	11390.987	43.07	-0.21	54.0	-10.93	AV	0.00	150	Vertical	Pass
6	15636.187	55.61	1.50	74.0	-18.39	Peak	226.00	150	Vertical	Pass
6**	15636.187	46.24	1.50	54.0	-7.76	AV	226.00	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	1162.900	36.89	-18.03	74.0	-37.11	Peak	105.00	150	Horizontal	Pass
1**	1162.900	27.75	-18.03	54.0	-26.25	AV	105.00	150	Horizontal	Pass
2	2781.200	44.33	-10.40	74.0	-29.67	Peak	41.00	150	Horizontal	Pass
2**	2781.200	34.28	-10.40	54.0	-19.72	AV	41.00	150	Horizontal	Pass
3	4794.000	51.41	-2.58	74.0	-22.59	Peak	238.00	150	Horizontal	Pass
3**	4794.000	43.20	-2.58	54.0	-10.80	AV	238.00	150	Horizontal	Pass
4	5218.000	87.35	-2.96	--	--	Peak	151.00	150	Horizontal	N/A
4**	5218.000	79.09	-2.96	--	--	AV	151.00	150	Horizontal	N/A
5	11671.300	53.04	0.24	74.0	-20.96	Peak	0.00	150	Horizontal	Pass
5**	11671.300	43.34	0.24	54.0	-10.66	AV	0.00	150	Horizontal	Pass
6	15636.975	55.67	1.47	74.0	-18.33	Peak	114.00	150	Horizontal	Pass
6**	15636.975	46.58	1.47	54.0	-7.42	AV	114.00	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	1161.900	41.69	-18.03	74.0	-32.31	Peak	66.00	150	Vertical	Pass
1**	1161.900	27.85	-18.03	54.0	-26.15	AV	66.00	150	Vertical	Pass
2	2828.200	46.84	-10.34	74.0	-27.16	Peak	87.00	150	Vertical	Pass
2**	2828.200	34.28	-10.34	54.0	-19.72	AV	87.00	150	Vertical	Pass
3	4798.400	51.69	-2.55	74.0	-22.31	Peak	192.00	150	Vertical	Pass
3**	4798.400	43.38	-2.55	54.0	-10.62	AV	192.00	150	Vertical	Pass
4	5246.000	101.51	-2.69	--	--	Peak	278.00	150	Vertical	N/A
4**	5246.000	93.97	-2.69	--	--	AV	278.00	150	Vertical	N/A
5	11445.037	52.46	-0.02	74.0	-21.54	Peak	183.00	150	Vertical	Pass
5**	11445.037	42.66	-0.02	54.0	-11.34	AV	183.00	150	Vertical	Pass
6	15851.437	55.50	1.29	74.0	-18.50	Peak	0.00	150	Vertical	Pass
6**	15851.437	46.58	1.29	54.0	-7.42	AV	0.00	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	1143.900	36.70	-18.27	74.0	-37.30	Peak	23.00	150	Horizontal	Pass
1**	1143.900	27.99	-18.27	54.0	-26.01	AV	23.00	150	Horizontal	Pass
2	2810.800	44.20	-10.20	74.0	-29.80	Peak	23.00	150	Horizontal	Pass
2**	2810.800	35.10	-10.20	54.0	-18.90	AV	23.00	150	Horizontal	Pass
3	4806.000	52.24	-2.93	74.0	-21.76	Peak	360.00	150	Horizontal	Pass
3**	4806.000	42.61	-2.93	54.0	-11.39	AV	360.00	150	Horizontal	Pass
4	5749.800	94.12	-2.16	--	--	Peak	151.00	150	Horizontal	N/A
4**	5749.800	86.52	-2.16	--	--	AV	151.00	150	Horizontal	N/A
5	11829.713	52.88	1.19	74.0	-21.12	Peak	360.00	150	Horizontal	Pass
5**	11829.713	43.20	1.19	54.0	-10.80	AV	360.00	150	Horizontal	Pass
6	15838.050	55.54	1.45	74.0	-18.46	Peak	293.00	150	Horizontal	Pass
6**	15838.050	46.79	1.45	54.0	-7.21	AV	293.00	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	1161.300	39.55	-18.03	74.0	-34.45	Peak	75.00	150	Vertical	Pass
1**	1161.300	28.02	-18.03	54.0	-25.98	AV	75.00	150	Vertical	Pass
2	2823.900	47.57	-10.31	74.0	-26.43	Peak	228.00	150	Vertical	Pass
2**	2823.900	34.52	-10.31	54.0	-19.48	AV	228.00	150	Vertical	Pass
3	4800.400	51.95	-2.56	74.0	-22.05	Peak	262.00	150	Vertical	Pass
3**	4800.400	43.15	-2.56	54.0	-10.85	AV	262.00	150	Vertical	Pass
4	5750.200	107.90	-2.16	--	--	Peak	262.00	150	Vertical	N/A
4**	5750.200	100.94	-2.16	--	--	AV	262.00	150	Vertical	N/A
5	11815.912	53.62	0.99	74.0	-20.38	Peak	157.00	150	Vertical	Pass
5**	11815.912	44.02	0.99	54.0	-9.98	AV	157.00	150	Vertical	Pass
6	15621.488	55.58	1.66	74.0	-18.42	Peak	360.00	150	Vertical	Pass
6**	15621.488	46.37	1.66	54.0	-7.63	AV	360.00	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	1496.800	39.49	-17.57	74.0	-34.51	Peak	45.00	150	Horizontal	Pass
1**	1496.800	28.96	-17.57	54.0	-25.04	AV	45.00	150	Horizontal	Pass
2	2764.500	43.66	-10.84	74.0	-30.34	Peak	354.00	150	Horizontal	Pass
2**	2764.500	34.66	-10.84	54.0	-19.34	AV	354.00	150	Horizontal	Pass
3	4795.400	51.62	-2.65	74.0	-22.38	Peak	121.00	150	Horizontal	Pass
3**	4795.400	42.51	-2.65	54.0	-11.49	AV	121.00	150	Horizontal	Pass
4	5790.400	95.07	-2.56	--	--	Peak	1.00	150	Horizontal	N/A
4**	5790.400	87.41	-2.56	--	--	AV	1.00	150	Horizontal	N/A
5	7393.875	49.41	-4.16	74.0	-24.59	Peak	189.00	150	Horizontal	Pass
5**	7393.875	39.99	-4.16	54.0	-14.01	AV	189.00	150	Horizontal	Pass
6	12106.575	53.65	0.59	74.0	-20.35	Peak	118.00	150	Horizontal	Pass
6**	12106.575	43.79	0.59	54.0	-10.21	AV	118.00	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	1327.600	41.40	-17.50	74.0	-32.60	Peak	341.00	150	Vertical	Pass
1**	1327.600	31.59	-17.50	54.0	-22.41	AV	341.00	150	Vertical	Pass
2	2832.900	47.91	-10.33	74.0	-26.09	Peak	212.00	150	Vertical	Pass
2**	2832.900	35.19	-10.33	54.0	-18.81	AV	212.00	150	Vertical	Pass
3	4851.600	52.34	-3.29	74.0	-21.66	Peak	0.00	150	Vertical	Pass
3**	4851.600	43.06	-3.29	54.0	-10.94	AV	0.00	150	Vertical	Pass
4	5778.600	109.79	-2.04	--	--	Peak	72.00	150	Vertical	N/A
4**	5778.600	101.86	-2.04	--	--	AV	72.00	150	Vertical	N/A
5	7355.638	49.38	-4.05	74.0	-24.62	Peak	96.00	150	Vertical	Pass
5**	7355.638	40.87	-4.05	54.0	-13.13	AV	96.00	150	Vertical	Pass
6	11696.026	53.29	0.24	74.0	-20.71	Peak	61.00	150	Vertical	Pass
6**	11696.026	42.89	0.24	54.0	-11.11	AV	61.00	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	1081.000	37.32	-18.52	74.0	-36.68	Peak	317.00	150	Horizontal	Pass
1**	1081.000	27.87	-18.52	54.0	-26.13	AV	317.00	150	Horizontal	Pass
2	2784.000	43.87	-10.58	74.0	-30.13	Peak	28.00	150	Horizontal	Pass
2**	2784.000	34.02	-10.58	54.0	-19.98	AV	28.00	150	Horizontal	Pass
3	4826.200	52.10	-3.47	74.0	-21.90	Peak	180.00	150	Horizontal	Pass
3**	4826.200	42.53	-3.47	54.0	-11.47	AV	180.00	150	Horizontal	Pass
4	5830.400	94.75	-2.14	--	--	Peak	0.00	150	Horizontal	N/A
4**	5830.400	87.29	-2.14	--	--	AV	0.00	150	Horizontal	N/A
5	7372.600	49.64	-3.82	74.0	-24.36	Peak	243.00	150	Horizontal	Pass
5**	7372.600	40.56	-3.82	54.0	-13.44	AV	243.00	150	Horizontal	Pass
6	11635.651	53.28	-0.22	74.0	-20.72	Peak	360.00	150	Horizontal	Pass
6**	11635.651	44.47	-0.22	54.0	-9.53	AV	360.00	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	1166.100	40.64	-18.15	74.0	-33.36	Peak	244.00	150	Vertical	Pass
1**	1166.100	27.57	-18.15	54.0	-26.43	AV	244.00	150	Vertical	Pass
2	2763.200	43.90	-10.95	74.0	-30.10	Peak	360.00	150	Vertical	Pass
2**	2763.200	34.46	-10.95	54.0	-19.54	AV	360.00	150	Vertical	Pass
3	4986.800	52.21	-2.91	74.0	-21.79	Peak	345.00	150	Vertical	Pass
3**	4986.800	43.05	-2.91	54.0	-10.95	AV	345.00	150	Vertical	Pass
4	5819.400	109.80	-2.56	--	--	Peak	69.00	150	Vertical	N/A
4**	5819.400	102.24	-2.56	--	--	AV	69.00	150	Vertical	N/A
5	7463.737	49.58	-3.64	74.0	-24.42	Peak	275.00	150	Vertical	Pass
5**	7463.737	40.79	-3.64	54.0	-13.21	AV	275.00	150	Vertical	Pass
6	12243.713	53.78	1.03	74.0	-20.22	Peak	360.00	150	Vertical	Pass
6**	12243.713	44.82	1.03	54.0	-9.18	AV	360.00	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	1138.600	37.30	-18.33	74.0	-36.70	Peak	321.00	150	Horizontal	Pass
1**	1138.600	27.50	-18.33	54.0	-26.50	AV	321.00	150	Horizontal	Pass
2	2802.100	44.29	-10.48	74.0	-29.71	Peak	160.00	150	Horizontal	Pass
2**	2802.100	34.87	-10.48	54.0	-19.13	AV	160.00	150	Horizontal	Pass
3	4739.200	52.04	-3.88	74.0	-21.96	Peak	14.00	150	Horizontal	Pass
3**	4739.200	41.76	-3.88	54.0	-12.24	AV	14.00	150	Horizontal	Pass
4	5751.600	93.29	-2.18	--	--	Peak	0.00	150	Horizontal	N/A
4**	5751.600	86.13	-2.18	--	--	AV	0.00	150	Horizontal	N/A
5	7380.650	49.26	-3.65	74.0	-24.74	Peak	303.00	150	Horizontal	Pass
5**	7380.650	40.05	-3.65	54.0	-13.95	AV	303.00	150	Horizontal	Pass
6	12275.049	53.37	1.62	74.0	-20.63	Peak	245.00	150	Horizontal	Pass
6**	12275.049	44.15	1.62	54.0	-9.85	AV	245.00	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	1161.900	38.68	-18.03	74.0	-35.32	Peak	54.00	150	Vertical	Pass
1**	1161.900	27.68	-18.03	54.0	-26.32	AV	54.00	150	Vertical	Pass
2	2825.800	45.43	-10.27	74.0	-28.57	Peak	231.00	150	Vertical	Pass
2**	2825.800	35.78	-10.27	54.0	-18.22	AV	231.00	150	Vertical	Pass
3	5048.400	53.19	-2.82	74.0	-20.81	Peak	152.00	150	Vertical	Pass
3**	5048.400	43.95	-2.82	54.0	-10.05	AV	152.00	150	Vertical	Pass
4	5750.800	109.17	-2.17	--	--	Peak	251.00	150	Vertical	N/A
4**	5750.800	101.56	-2.17	--	--	AV	251.00	150	Vertical	N/A
5	7380.362	49.13	-3.61	74.0	-24.87	Peak	299.00	150	Vertical	Pass
5**	7380.362	40.18	-3.61	54.0	-13.82	AV	299.00	150	Vertical	Pass
6	11927.463	53.26	1.54	74.0	-20.74	Peak	67.00	150	Vertical	Pass
6**	11927.463	43.40	1.54	54.0	-10.60	AV	67.00	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	1161.000	37.60	-18.03	74.0	-36.40	Peak	48.00	150	Horizontal	Pass
1**	1161.000	27.55	-18.03	54.0	-26.45	AV	48.00	150	Horizontal	Pass
2	2714.200	44.54	-11.28	74.0	-29.46	Peak	321.00	150	Horizontal	Pass
2**	2714.200	34.24	-11.28	54.0	-19.76	AV	321.00	150	Horizontal	Pass
3	4933.800	52.54	-2.87	74.0	-21.46	Peak	325.00	150	Horizontal	Pass
3**	4933.800	42.54	-2.87	54.0	-11.46	AV	325.00	150	Horizontal	Pass
4	5789.000	93.19	-2.48	--	--	Peak	146.00	150	Horizontal	N/A
4**	5789.000	85.16	-2.48	--	--	AV	146.00	150	Horizontal	N/A
5	7364.837	49.60	-4.02	74.0	-24.40	Peak	164.00	150	Horizontal	Pass
5**	7364.837	39.85	-4.02	54.0	-14.15	AV	164.00	150	Horizontal	Pass
6	12289.424	53.77	1.68	74.0	-20.23	Peak	52.00	150	Horizontal	Pass
6**	12289.424	43.79	1.68	54.0	-10.21	AV	52.00	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	1329.100	41.37	-17.45	74.0	-32.63	Peak	167.00	150	Vertical	Pass
1**	1329.100	28.48	-17.45	54.0	-25.52	AV	167.00	150	Vertical	Pass
2	2824.500	45.48	-10.32	74.0	-28.52	Peak	233.00	150	Vertical	Pass
2**	2824.500	34.31	-10.32	54.0	-19.69	AV	233.00	150	Vertical	Pass
3	4808.600	52.05	-2.95	74.0	-21.95	Peak	351.00	150	Vertical	Pass
3**	4808.600	43.53	-2.95	54.0	-10.47	AV	351.00	150	Vertical	Pass
4	5791.200	109.75	-2.57	--	--	Peak	133.00	150	Vertical	N/A
4**	5791.200	101.73	-2.57	--	--	AV	133.00	150	Vertical	N/A
5	7359.663	50.73	-4.06	74.0	-23.27	Peak	230.00	150	Vertical	Pass
5**	7359.663	40.63	-4.06	54.0	-13.37	AV	230.00	150	Vertical	Pass
6	11018.963	52.94	-0.76	74.0	-21.06	Peak	248.00	150	Vertical	Pass
6**	11018.963	43.11	-0.76	54.0	-10.89	AV	248.00	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	1165.300	36.91	-18.11	74.0	-37.09	Peak	128.00	150	Horizontal	Pass
1**	1165.300	27.72	-18.11	54.0	-26.28	AV	128.00	150	Horizontal	Pass
2	2859.000	44.89	-10.23	74.0	-29.11	Peak	112.00	150	Horizontal	Pass
2**	2859.000	35.87	-10.23	54.0	-18.13	AV	112.00	150	Horizontal	Pass
3	4811.400	52.20	-3.02	74.0	-21.80	Peak	176.00	150	Horizontal	Pass
3**	4811.400	42.93	-3.02	54.0	-11.07	AV	176.00	150	Horizontal	Pass
4	5831.000	93.75	-2.11	--	--	Peak	1.00	150	Horizontal	N/A
4**	5831.000	86.49	-2.11	--	--	AV	1.00	150	Horizontal	N/A
5	7674.475	49.66	-2.44	74.0	-24.34	Peak	195.00	150	Horizontal	Pass
5**	7674.475	40.04	-2.44	54.0	-13.96	AV	195.00	150	Horizontal	Pass
6	12230.200	53.72	1.30	74.0	-20.28	Peak	50.00	150	Horizontal	Pass
6**	12230.200	44.81	1.30	54.0	-9.19	AV	50.00	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	1165.900	42.18	-18.14	74.0	-31.82	Peak	102.00	150	Vertical	Pass
1**	1165.900	28.53	-18.14	54.0	-25.47	AV	102.00	150	Vertical	Pass
2	2824.200	44.83	-10.32	74.0	-29.17	Peak	239.00	150	Vertical	Pass
2**	2824.200	34.62	-10.32	54.0	-19.38	AV	239.00	150	Vertical	Pass
3	4912.600	52.65	-2.27	74.0	-21.35	Peak	360.00	150	Vertical	Pass
3**	4912.600	43.17	-2.27	54.0	-10.83	AV	360.00	150	Vertical	Pass
4	5817.600	109.03	-2.52	--	--	Peak	87.00	150	Vertical	N/A
4**	5817.600	102.17	-2.52	--	--	AV	87.00	150	Vertical	N/A
5	7504.850	49.74	-3.54	74.0	-24.26	Peak	231.00	150	Vertical	Pass
5**	7504.850	40.18	-3.54	54.0	-13.82	AV	231.00	150	Vertical	Pass
6	12214.963	53.41	1.18	74.0	-20.59	Peak	68.00	150	Vertical	Pass
6**	12214.963	43.81	1.18	54.0	-10.19	AV	68.00	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	1162.100	37.69	-18.03	74.0	-36.31	Peak	204.00	150	Horizontal	Pass
1**	1162.100	27.94	-18.03	54.0	-26.06	AV	204.00	150	Horizontal	Pass
2	2810.800	44.29	-10.20	74.0	-29.71	Peak	334.00	150	Horizontal	Pass
2**	2810.800	35.37	-10.20	54.0	-18.63	AV	334.00	150	Horizontal	Pass
3	5087.800	53.59	-2.54	74.0	-20.41	Peak	181.00	150	Horizontal	Pass
3**	5087.800	42.94	-2.54	54.0	-11.06	AV	181.00	150	Horizontal	Pass
4	5751.800	89.78	-2.18	--	--	Peak	0.00	150	Horizontal	N/A
4**	5751.800	82.29	-2.18	--	--	AV	0.00	150	Horizontal	N/A
5	7360.525	49.47	-4.03	74.0	-24.53	Peak	333.00	150	Horizontal	Pass
5**	7360.525	40.79	-4.03	54.0	-13.21	AV	333.00	150	Horizontal	Pass
6	12285.688	53.64	1.76	74.0	-20.36	Peak	19.00	150	Horizontal	Pass
6**	12285.688	44.06	1.76	54.0	-9.94	AV	19.00	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	1161.900	40.73	-18.03	74.0	-33.27	Peak	78.00	150	Vertical	Pass
1**	1161.900	27.82	-18.03	54.0	-26.18	AV	78.00	150	Vertical	Pass
2	2829.600	43.83	-10.36	74.0	-30.17	Peak	249.00	150	Vertical	Pass
2**	2829.600	35.01	-10.36	54.0	-18.99	AV	249.00	150	Vertical	Pass
3	4841.400	52.13	-3.44	74.0	-21.87	Peak	148.00	150	Vertical	Pass
3**	4841.400	42.11	-3.44	54.0	-11.89	AV	148.00	150	Vertical	Pass
4	5768.000	106.23	-1.82	--	--	Peak	249.00	150	Vertical	N/A
4**	5768.000	99.12	-1.82	--	--	AV	249.00	150	Vertical	N/A
5	7382.663	50.16	-3.83	74.0	-23.84	Peak	85.00	150	Vertical	Pass
5**	7382.663	40.24	-3.83	54.0	-13.76	AV	85.00	150	Vertical	Pass
6	11831.725	54.34	1.18	74.0	-19.66	Peak	323.00	150	Vertical	Pass
6**	11831.725	43.92	1.18	54.0	-10.08	AV	323.00	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	1125.700	37.61	-18.47	74.0	-36.39	Peak	192.00	150	Horizontal	Pass
1**	1125.700	27.02	-18.47	54.0	-26.98	AV	192.00	150	Horizontal	Pass
2	2778.300	44.69	-10.42	74.0	-29.31	Peak	257.00	150	Horizontal	Pass
2**	2778.300	35.60	-10.42	54.0	-18.40	AV	257.00	150	Horizontal	Pass
3	5087.600	52.72	-2.55	74.0	-21.28	Peak	269.00	150	Horizontal	Pass
3**	5087.600	43.89	-2.55	54.0	-10.11	AV	269.00	150	Horizontal	Pass
4	5780.400	90.22	-2.14	--	--	Peak	138.00	150	Horizontal	N/A
4**	5780.400	83.09	-2.14	--	--	AV	138.00	150	Horizontal	N/A
5	7462.875	50.07	-3.60	74.0	-23.93	Peak	360.00	150	Horizontal	Pass
5**	7462.875	40.84	-3.60	54.0	-13.16	AV	360.00	150	Horizontal	Pass
6	12439.788	53.84	1.77	74.0	-20.16	Peak	215.00	150	Horizontal	Pass
6**	12439.788	43.53	1.77	54.0	-10.47	AV	215.00	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	1162.700	40.73	-18.03	74.0	-33.27	Peak	96.00	150	Vertical	Pass
1**	1162.700	33.76	-18.03	54.0	-20.24	AV	96.00	150	Vertical	Pass
2	2823.600	47.01	-10.30	74.0	-26.99	Peak	45.00	150	Vertical	Pass
2**	2823.600	35.73	-10.30	54.0	-18.27	AV	45.00	150	Vertical	Pass
3	4783.400	51.93	-2.97	74.0	-22.07	Peak	360.00	150	Vertical	Pass
3**	4783.400	42.10	-2.97	54.0	-11.90	AV	360.00	150	Vertical	Pass
4	5783.600	106.36	-2.26	--	--	Peak	87.00	150	Vertical	N/A
4**	5783.600	98.88	-2.26	--	--	AV	87.00	150	Vertical	N/A
5	7370.013	49.61	-4.05	74.0	-24.39	Peak	194.00	150	Vertical	Pass
5**	7370.013	40.12	-4.05	54.0	-13.88	AV	194.00	150	Vertical	Pass
6	12016.300	53.10	1.00	74.0	-20.90	Peak	287.00	150	Vertical	Pass
6**	12016.300	43.05	1.00	54.0	-10.95	AV	287.00	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	1122.400	37.29	-18.49	74.0	-36.71	Peak	278.00	150	Horizontal	Pass
1**	1122.400	27.33	-18.49	54.0	-26.67	AV	278.00	150	Horizontal	Pass
2	2819.000	44.15	-10.21	74.0	-29.85	Peak	131.00	150	Horizontal	Pass
2**	2819.000	34.80	-10.21	54.0	-19.20	AV	131.00	150	Horizontal	Pass
3	4809.800	52.35	-2.97	74.0	-21.65	Peak	338.00	150	Horizontal	Pass
3**	4809.800	43.22	-2.97	54.0	-10.78	AV	338.00	150	Horizontal	Pass
4	5751.600	92.75	-2.18	--	--	Peak	0.00	150	Horizontal	N/A
4**	5751.600	85.07	-2.18	--	--	AV	0.00	150	Horizontal	N/A
5	7337.238	49.86	-3.51	74.0	-24.14	Peak	52.00	150	Horizontal	Pass
5**	7337.238	40.02	-3.51	54.0	-13.98	AV	52.00	150	Horizontal	Pass
6	12214.100	54.00	1.15	74.0	-20.00	Peak	360.00	150	Horizontal	Pass
6**	12214.100	44.35	1.15	54.0	-9.65	AV	360.00	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	1163.300	40.39	-18.04	74.0	-33.61	Peak	105.00	150	Vertical	Pass
1**	1163.300	32.75	-18.04	54.0	-21.25	AV	105.00	150	Vertical	Pass
2	2823.700	45.85	-10.30	74.0	-28.15	Peak	253.00	150	Vertical	Pass
2**	2823.700	34.67	-10.30	54.0	-19.33	AV	253.00	150	Vertical	Pass
3	4800.000	52.05	-2.55	74.0	-21.95	Peak	208.00	150	Vertical	Pass
3**	4800.000	43.83	-2.55	54.0	-10.17	AV	208.00	150	Vertical	Pass
4	5740.200	109.16	-2.33	--	--	Peak	128.00	150	Vertical	N/A
4**	5740.200	101.48	-2.33	--	--	AV	128.00	150	Vertical	N/A
5	7346.150	49.75	-3.81	74.0	-24.25	Peak	153.00	150	Vertical	Pass
5**	7346.150	40.89	-3.81	54.0	-13.11	AV	153.00	150	Vertical	Pass
6	12253.487	53.44	0.97	74.0	-20.56	Peak	133.00	150	Vertical	Pass
6**	12253.487	44.56	0.97	54.0	-9.44	AV	133.00	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	1199.700	37.87	-17.83	74.0	-36.13	Peak	86.00	150	Horizontal	Pass
1**	1199.700	28.30	-17.83	54.0	-25.70	AV	86.00	150	Horizontal	Pass
2	2808.500	44.01	-10.29	74.0	-29.99	Peak	0.00	150	Horizontal	Pass
2**	2808.500	35.52	-10.29	54.0	-18.48	AV	0.00	150	Horizontal	Pass
3	4802.400	54.13	-2.62	74.0	-19.87	Peak	96.00	150	Horizontal	Pass
3**	4802.400	43.68	-2.62	54.0	-10.32	AV	96.00	150	Horizontal	Pass
4	5778.200	93.07	-2.01	--	--	Peak	148.00	150	Horizontal	N/A
4**	5778.200	85.49	-2.01	--	--	AV	148.00	150	Horizontal	N/A
5	7355.350	49.67	-4.03	74.0	-24.33	Peak	289.00	150	Horizontal	Pass
5**	7355.350	40.99	-4.03	54.0	-13.01	AV	289.00	150	Horizontal	Pass
6	11953.050	54.65	1.26	74.0	-19.35	Peak	68.00	150	Horizontal	Pass
6**	11953.050	43.69	1.26	54.0	-10.31	AV	68.00	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	1330.600	40.84	-17.40	74.0	-33.16	Peak	177.00	150	Vertical	Pass
1**	1330.600	30.92	-17.40	54.0	-23.08	AV	177.00	150	Vertical	Pass
2	2832.900	44.64	-10.33	74.0	-29.36	Peak	38.00	150	Vertical	Pass
2**	2832.900	34.65	-10.33	54.0	-19.35	AV	38.00	150	Vertical	Pass
3	4800.600	52.81	-2.56	74.0	-21.19	Peak	0.00	150	Vertical	Pass
3**	4800.600	44.14	-2.56	54.0	-9.86	AV	0.00	150	Vertical	Pass
4	5780.400	109.44	-2.14	--	--	Peak	138.00	150	Vertical	N/A
4**	5780.400	102.05	-2.14	--	--	AV	138.00	150	Vertical	N/A
5	7506.862	49.20	-3.56	74.0	-24.80	Peak	357.00	150	Vertical	Pass
5**	7506.862	40.13	-3.56	54.0	-13.87	AV	357.00	150	Vertical	Pass
6	12278.213	54.56	1.74	74.0	-19.44	Peak	320.00	150	Vertical	Pass
6**	12278.213	44.09	1.74	54.0	-9.91	AV	320.00	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	1161.500	37.11	-18.03	74.0	-36.89	Peak	21.00	150	Horizontal	Pass
1**	1161.500	28.39	-18.03	54.0	-25.61	AV	21.00	150	Horizontal	Pass
2	2867.700	44.49	-10.39	74.0	-29.51	Peak	169.00	150	Horizontal	Pass
2**	2867.700	34.59	-10.39	54.0	-19.41	AV	169.00	150	Horizontal	Pass
3	4834.000	52.54	-3.49	74.0	-21.46	Peak	360.00	150	Horizontal	Pass
3**	4834.000	42.31	-3.49	54.0	-11.69	AV	360.00	150	Horizontal	Pass
4	5818.200	93.54	-2.52	--	--	Peak	0.00	150	Horizontal	N/A
4**	5818.200	85.83	-2.52	--	--	AV	0.00	150	Horizontal	N/A
5	7351.900	49.48	-3.85	74.0	-24.52	Peak	108.00	150	Horizontal	Pass
5**	7351.900	41.31	-3.85	54.0	-12.69	AV	108.00	150	Horizontal	Pass
6	12228.187	52.97	1.31	74.0	-21.03	Peak	327.00	150	Horizontal	Pass
6**	12228.187	44.09	1.31	54.0	-9.91	AV	327.00	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	1165.500	38.10	-18.12	74.0	-35.90	Peak	255.00	150	Vertical	Pass
1**	1165.500	29.80	-18.12	54.0	-24.20	AV	255.00	150	Vertical	Pass
2	2826.300	44.88	-10.26	74.0	-29.12	Peak	246.00	150	Vertical	Pass
2**	2826.300	34.81	-10.26	54.0	-19.19	AV	246.00	150	Vertical	Pass
3	4888.000	52.21	-3.34	74.0	-21.79	Peak	360.00	150	Vertical	Pass
3**	4888.000	43.07	-3.34	54.0	-10.93	AV	360.00	150	Vertical	Pass
4	5829.200	109.40	-2.21	--	--	Peak	90.00	150	Vertical	N/A
4**	5829.200	101.49	-2.21	--	--	AV	90.00	150	Vertical	N/A
5	7374.038	49.31	-3.75	74.0	-24.69	Peak	355.00	150	Vertical	Pass
5**	7374.038	40.78	-3.75	54.0	-13.22	AV	355.00	150	Vertical	Pass
6	11650.312	52.76	-0.15	74.0	-21.24	Peak	14.00	150	Vertical	Pass
6**	11650.312	43.95	-0.15	54.0	-10.05	AV	14.00	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	1143.500	37.47	-18.29	74.0	-36.53	Peak	190.00	150	Horizontal	Pass
1**	1143.500	26.92	-18.29	54.0	-27.08	AV	190.00	150	Horizontal	Pass
2	2814.300	43.80	-10.05	74.0	-30.20	Peak	53.00	150	Horizontal	Pass
2**	2814.300	34.99	-10.05	54.0	-19.01	AV	53.00	150	Horizontal	Pass
3	4839.400	52.68	-3.35	74.0	-21.32	Peak	325.00	150	Horizontal	Pass
3**	4839.400	43.12	-3.35	54.0	-10.88	AV	325.00	150	Horizontal	Pass
4	5770.600	90.33	-1.93	--	--	Peak	142.00	150	Horizontal	N/A
4**	5770.600	82.70	-1.93	--	--	AV	142.00	150	Horizontal	N/A
5	7365.412	48.99	-4.02	74.0	-25.01	Peak	104.00	150	Horizontal	Pass
5**	7365.412	40.14	-4.02	54.0	-13.86	AV	104.00	150	Horizontal	Pass
6	12277.349	54.47	1.71	74.0	-19.53	Peak	160.00	150	Horizontal	Pass
6**	12277.349	44.22	1.71	54.0	-9.78	AV	160.00	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	1162.000	40.39	-18.03	74.0	-33.61	Peak	79.00	150	Vertical	Pass
1**	1162.000	29.01	-18.03	54.0	-24.99	AV	79.00	150	Vertical	Pass
2	2822.900	44.72	-10.27	74.0	-29.28	Peak	228.00	150	Vertical	Pass
2**	2822.900	34.72	-10.27	54.0	-19.28	AV	228.00	150	Vertical	Pass
3	4799.800	52.19	-2.55	74.0	-21.81	Peak	300.00	150	Vertical	Pass
3**	4799.800	44.35	-2.55	54.0	-9.65	AV	300.00	150	Vertical	Pass
4	5758.200	106.02	-1.98	--	--	Peak	249.00	150	Vertical	N/A
4**	5758.200	98.45	-1.98	--	--	AV	249.00	150	Vertical	N/A
5	7381.513	49.75	-3.74	74.0	-24.25	Peak	86.00	150	Vertical	Pass
5**	7381.513	39.79	-3.74	54.0	-14.21	AV	86.00	150	Vertical	Pass
6	12211.512	53.68	1.07	74.0	-20.32	Peak	177.00	150	Vertical	Pass
6**	12211.512	44.47	1.07	54.0	-9.53	AV	177.00	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	1174.400	36.94	-18.02	74.0	-37.06	Peak	134.00	150	Horizontal	Pass
1**	1174.400	27.74	-18.02	54.0	-26.26	AV	134.00	150	Horizontal	Pass
2	2739.800	43.70	-10.84	74.0	-30.30	Peak	216.00	150	Horizontal	Pass
2**	2739.800	34.65	-10.84	54.0	-19.35	AV	216.00	150	Horizontal	Pass
3	4914.200	52.35	-2.29	74.0	-21.65	Peak	311.00	150	Horizontal	Pass
3**	4914.200	43.47	-2.29	54.0	-10.53	AV	311.00	150	Horizontal	Pass
4	5785.200	89.39	-2.38	--	--	Peak	0.00	150	Horizontal	N/A
4**	5785.200	82.18	-2.38	--	--	AV	0.00	150	Horizontal	N/A
5	7384.388	49.22	-3.86	74.0	-24.78	Peak	67.00	150	Horizontal	Pass
5**	7384.388	40.08	-3.86	54.0	-13.92	AV	67.00	150	Horizontal	Pass
6	11936.950	53.18	1.69	74.0	-20.82	Peak	49.00	150	Horizontal	Pass
6**	11936.950	44.26	1.69	54.0	-9.74	AV	49.00	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	1166.800	39.21	-18.18	74.0	-34.79	Peak	289.00	150	Vertical	Pass
1**	1166.800	29.28	-18.18	54.0	-24.72	AV	289.00	150	Vertical	Pass
2	2801.400	43.85	-10.52	74.0	-30.15	Peak	0.00	150	Vertical	Pass
2**	2801.400	35.38	-10.52	54.0	-18.62	AV	0.00	150	Vertical	Pass
3	4771.200	52.01	-3.01	74.0	-21.99	Peak	254.00	150	Vertical	Pass
3**	4771.200	42.96	-3.01	54.0	-11.04	AV	254.00	150	Vertical	Pass
4	5781.600	105.86	-2.15	--	--	Peak	90.00	150	Vertical	N/A
4**	5781.600	98.60	-2.15	--	--	AV	90.00	150	Vertical	N/A
5	7346.438	49.65	-3.82	74.0	-24.35	Peak	157.00	150	Vertical	Pass
5**	7346.438	40.54	-3.82	54.0	-13.46	AV	157.00	150	Vertical	Pass
6	12260.388	53.50	1.09	74.0	-20.50	Peak	86.00	150	Vertical	Pass
6**	12260.388	44.07	1.09	54.0	-9.93	AV	86.00	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	1166.400	38.68	-18.16	74.0	-35.32	Peak	31.00	150	Horizontal	Pass
1**	1166.400	27.84	-18.16	54.0	-26.16	AV	31.00	150	Horizontal	Pass
2	2785.600	44.16	-10.48	74.0	-29.84	Peak	211.00	150	Horizontal	Pass
2**	2785.600	35.08	-10.48	54.0	-18.92	AV	211.00	150	Horizontal	Pass
3	4888.800	52.34	-3.27	74.0	-21.66	Peak	94.00	150	Horizontal	Pass
3**	4888.800	43.46	-3.27	54.0	-10.54	AV	94.00	150	Horizontal	Pass
4	5756.200	87.47	-2.03	--	--	Peak	0.00	150	Horizontal	N/A
4**	5756.200	79.92	-2.03	--	--	AV	0.00	150	Horizontal	N/A
5	7618.700	49.53	-2.93	74.0	-24.47	Peak	143.00	150	Horizontal	Pass
5**	7618.700	39.71	-2.93	54.0	-14.29	AV	143.00	150	Horizontal	Pass
6	11945.287	52.93	1.53	74.0	-21.07	Peak	235.00	150	Horizontal	Pass
6**	11945.287	43.83	1.53	54.0	-10.17	AV	235.00	150	Horizontal	Pass

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

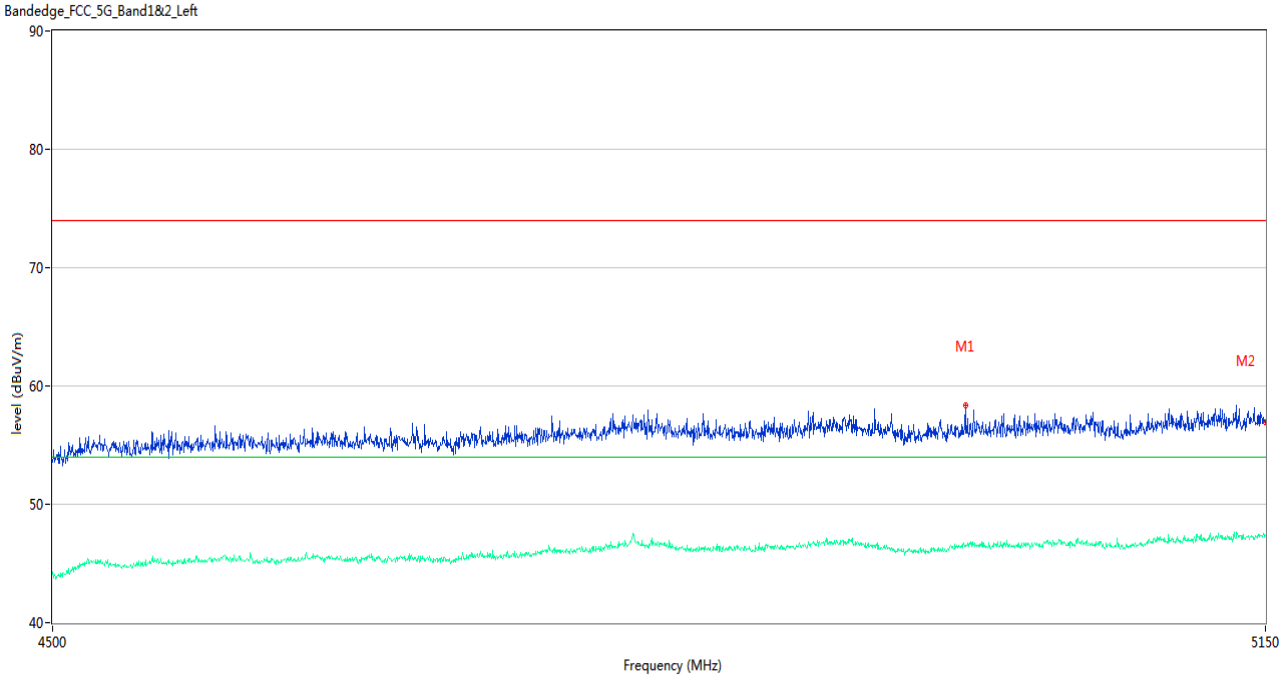
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.300	40.30	-18.07	74.0	-33.70	Peak	68.00	150	Vertical	Pass
1**	1164.300	27.45	-18.07	54.0	-26.55	AV	68.00	150	Vertical	Pass
2	2811.700	44.37	-10.15	74.0	-29.63	Peak	210.00	150	Vertical	Pass
2**	2811.700	35.03	-10.15	54.0	-18.97	AV	210.00	150	Vertical	Pass
3	4729.400	51.99	-3.92	74.0	-22.01	Peak	360.00	150	Vertical	Pass
3**	4729.400	42.13	-3.92	54.0	-11.87	AV	360.00	150	Vertical	Pass
4	5801.600	103.63	-2.56	--	--	Peak	109.00	150	Vertical	N/A
4**	5801.600	95.77	-2.56	--	--	AV	109.00	150	Vertical	N/A
5	7293.538	49.70	-3.68	74.0	-24.30	Peak	90.00	150	Vertical	Pass
5**	7293.538	39.63	-3.68	54.0	-14.37	AV	90.00	150	Vertical	Pass
6	12216.112	53.58	1.19	74.0	-20.42	Peak	206.00	150	Vertical	Pass
6**	12216.112	44.76	1.19	54.0	-9.24	AV	206.00	150	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

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

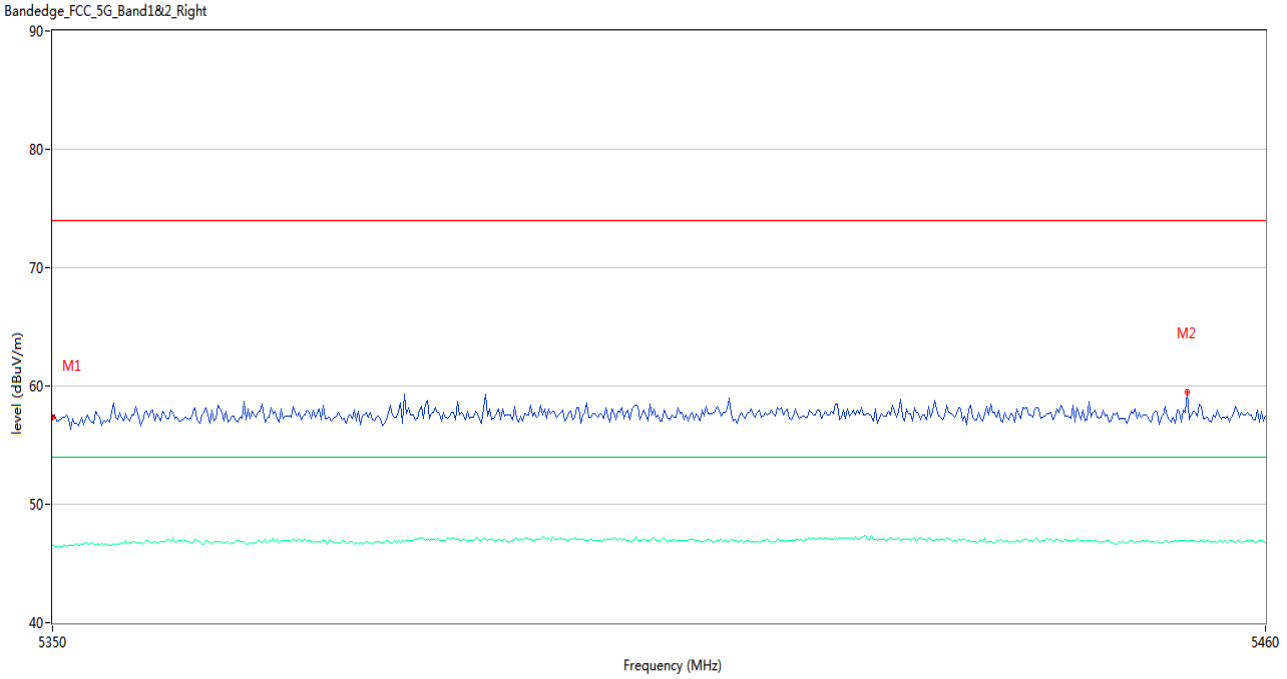
Test Data and Plots

U-NII-1 11a CH36



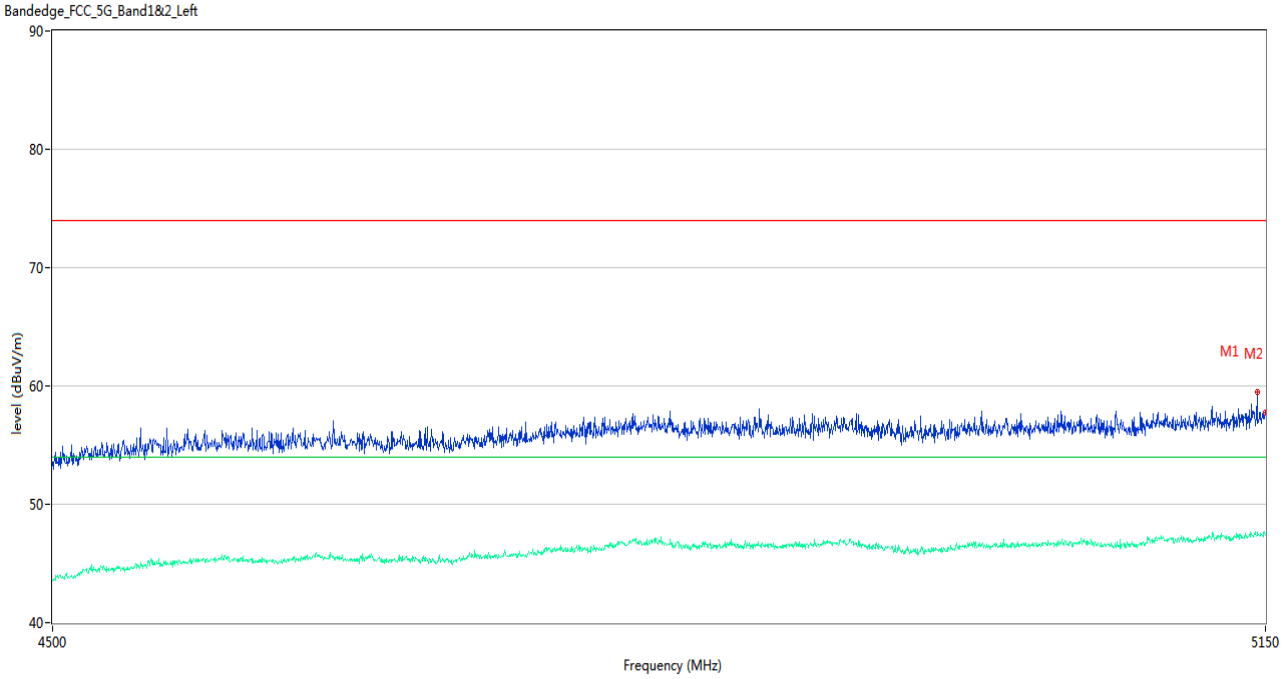
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4981.000	58.35	3.00	74.0	-15.65	Peak	132.00	150	Vertical	Pass
1**	4981.000	46.41	3.00	54.0	-7.59	AV	132.00	150	Vertical	Pass
2	5150.000	56.94	3.22	74.0	-17.06	Peak	64.00	150	Vertical	Pass
2**	5150.000	47.37	3.22	54.0	-6.63	AV	64.00	150	Vertical	Pass

U-NII-1 11a CH48



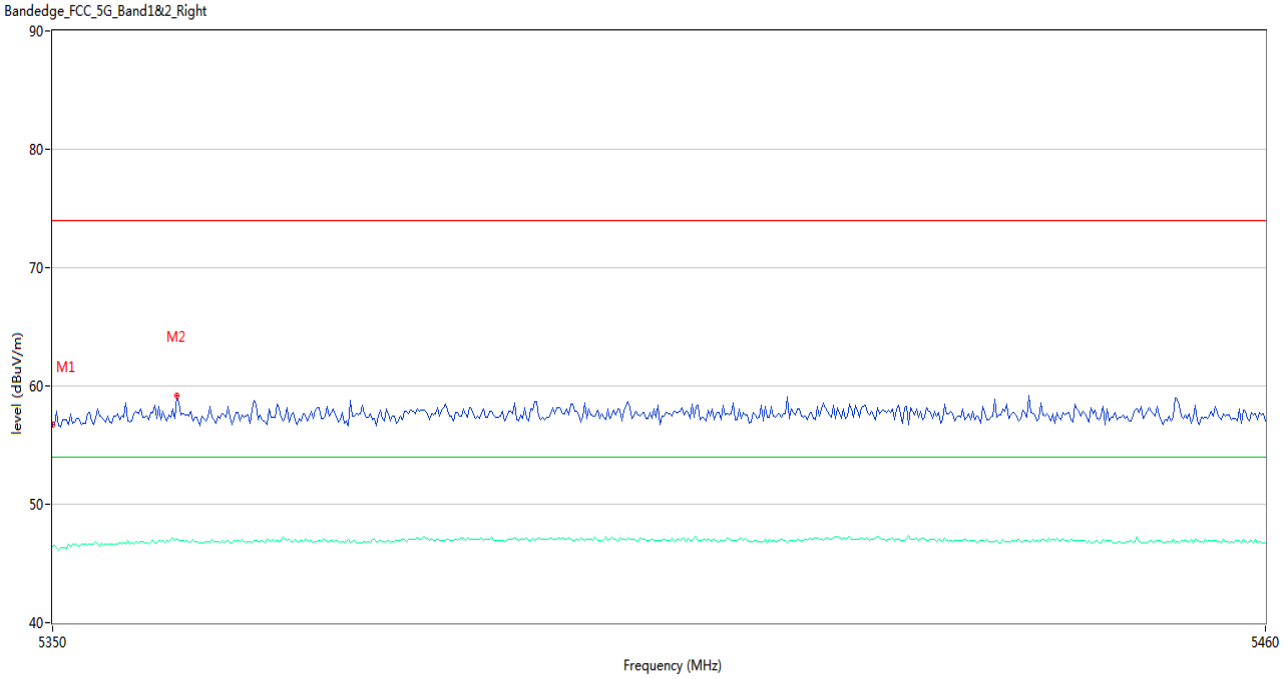
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	57.34	2.98	74.0	-16.66	Peak	163.00	150	Vertical	Pass
1**	5350.000	46.54	2.98	54.0	-7.46	AV	163.00	150	Vertical	Pass
2	5452.850	59.46	3.83	74.0	-14.54	Peak	269.00	150	Vertical	Pass
2**	5452.850	46.88	3.83	54.0	-7.12	AV	269.00	150	Vertical	Pass

U-NII-1 11n20 CH36



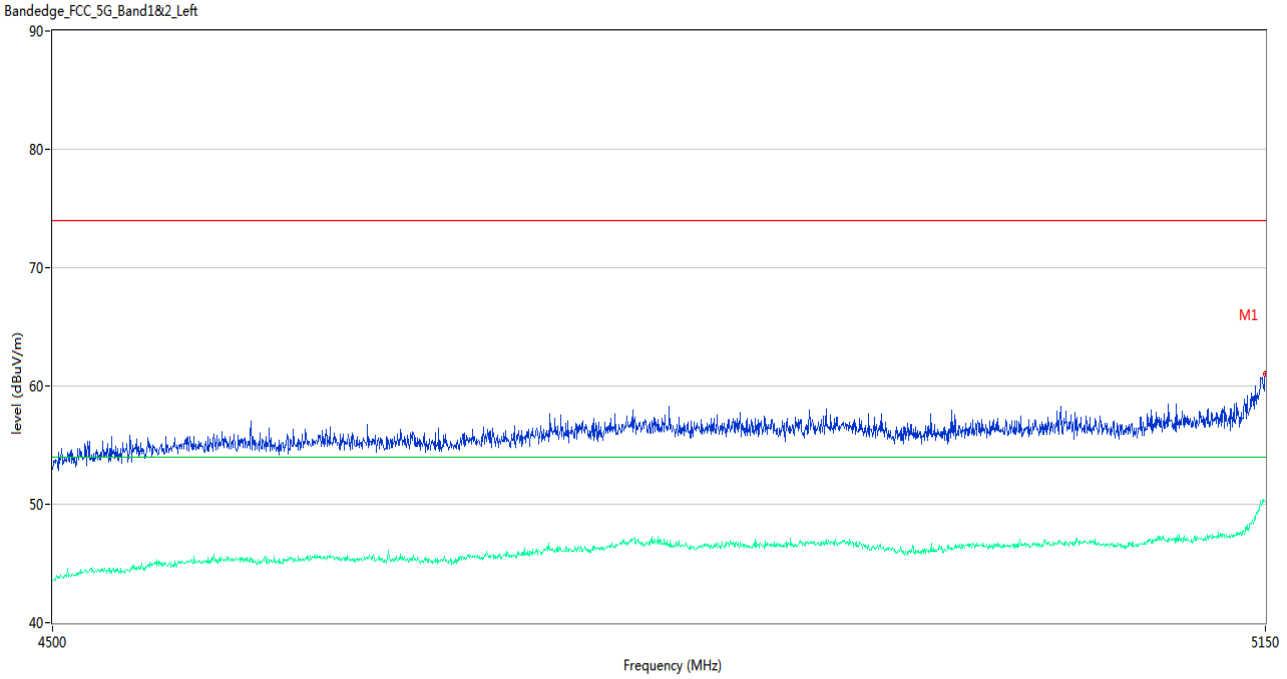
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5145.125	59.50	3.41	74.0	-14.50	Peak	14.00	150	Vertical	Pass
1**	5145.125	47.37	3.41	54.0	-6.63	AV	14.00	150	Vertical	Pass
2	5150.000	57.75	3.22	74.0	-16.25	Peak	249.00	150	Vertical	Pass
2**	5150.000	47.49	3.22	54.0	-6.51	AV	249.00	150	Vertical	Pass

U-NII-1 11n20 CH48



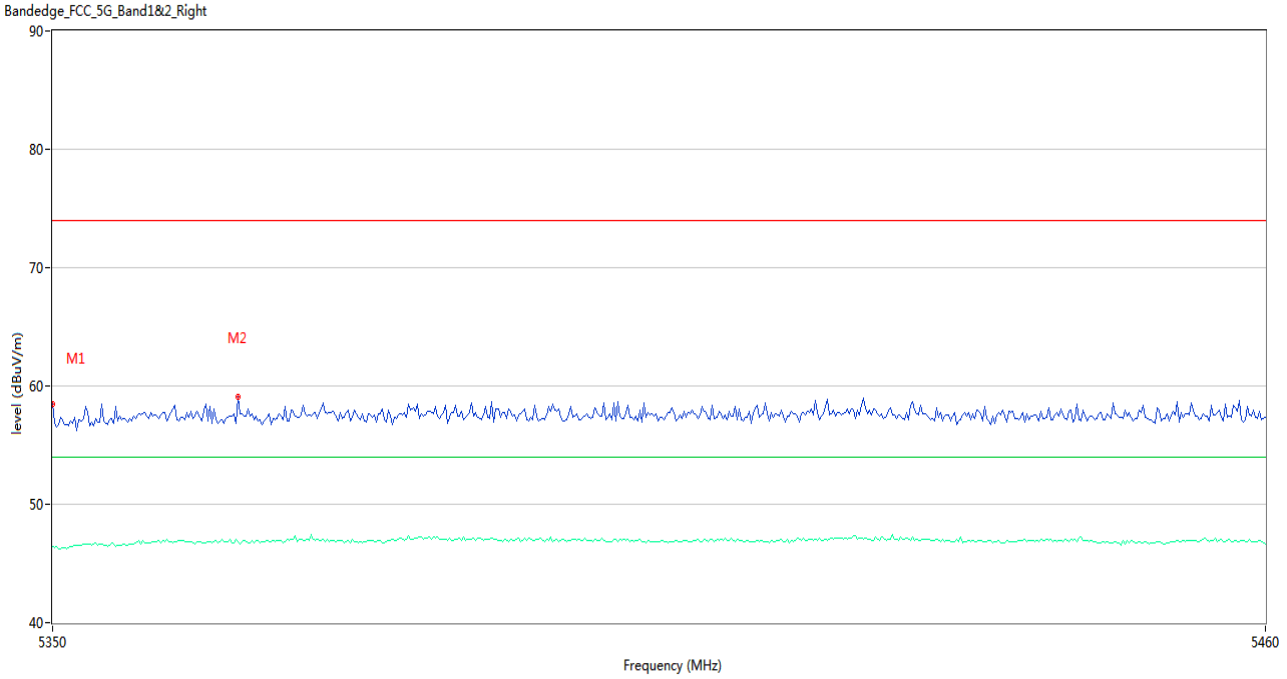
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.77	2.98	74.0	-17.23	Peak	165.00	150	Vertical	Pass
1**	5350.000	46.42	2.98	54.0	-7.58	AV	165.00	150	Vertical	Pass
2	5361.183	59.17	3.48	74.0	-14.83	Peak	89.00	150	Vertical	Pass
2**	5361.183	47.09	3.48	54.0	-6.91	AV	89.00	150	Vertical	Pass

U-NII-1 11n40 CH38



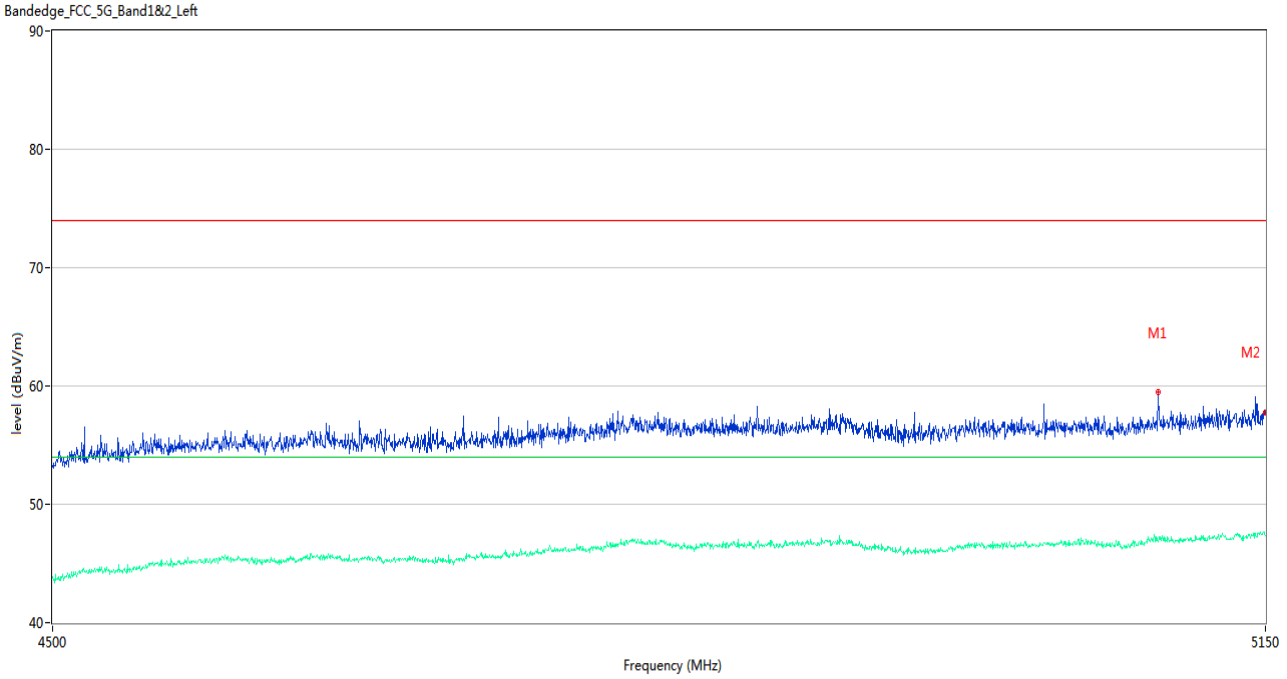
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	60.97	3.22	74.0	-13.03	Peak	110.00	150	Vertical	Pass
1**	5150.000	50.22	3.22	54.0	-3.78	AV	110.00	150	Vertical	Pass

U-NII-1 11n40 CH46



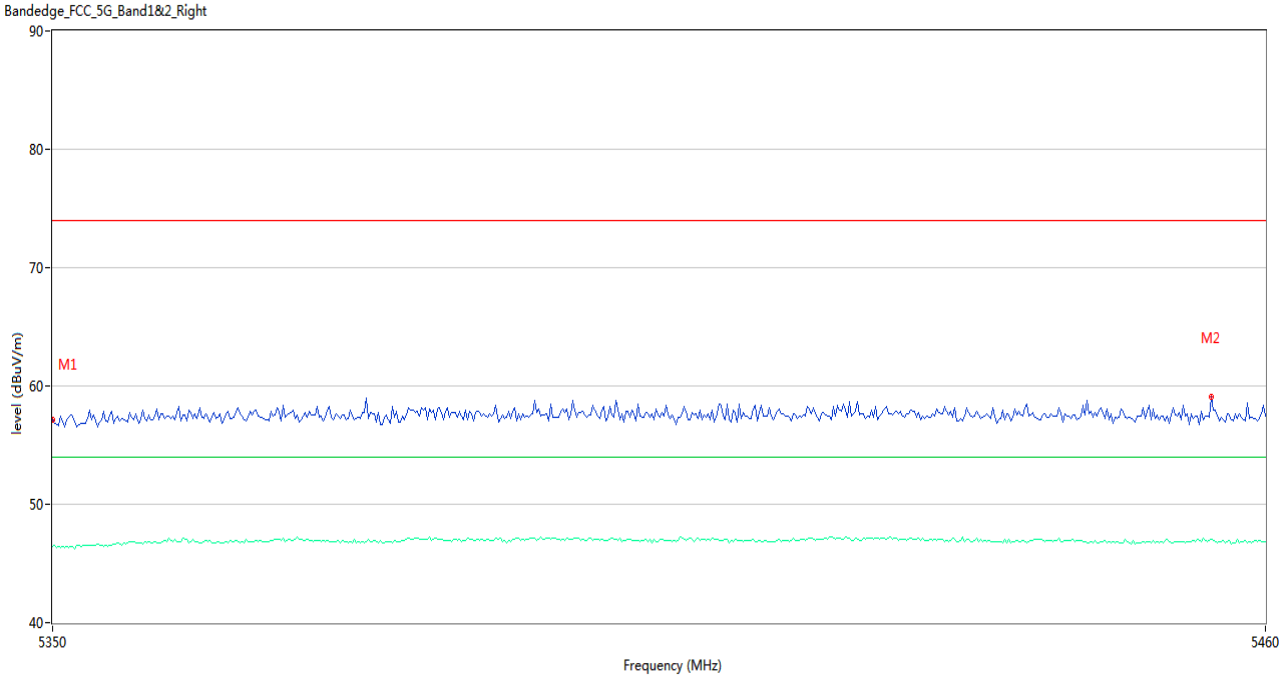
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	58.47	2.98	74.0	-15.53	Peak	80.00	150	Vertical	Pass
1**	5350.000	46.39	2.98	54.0	-7.61	AV	80.00	150	Vertical	Pass
2	5365.767	57.31	3.37	74.0	-16.69	Peak	289.00	150	Vertical	Pass
2**	5365.767	46.88	3.37	54.0	-7.12	AV	289.00	150	Vertical	Pass

U-NII-1 11ac20 CH36



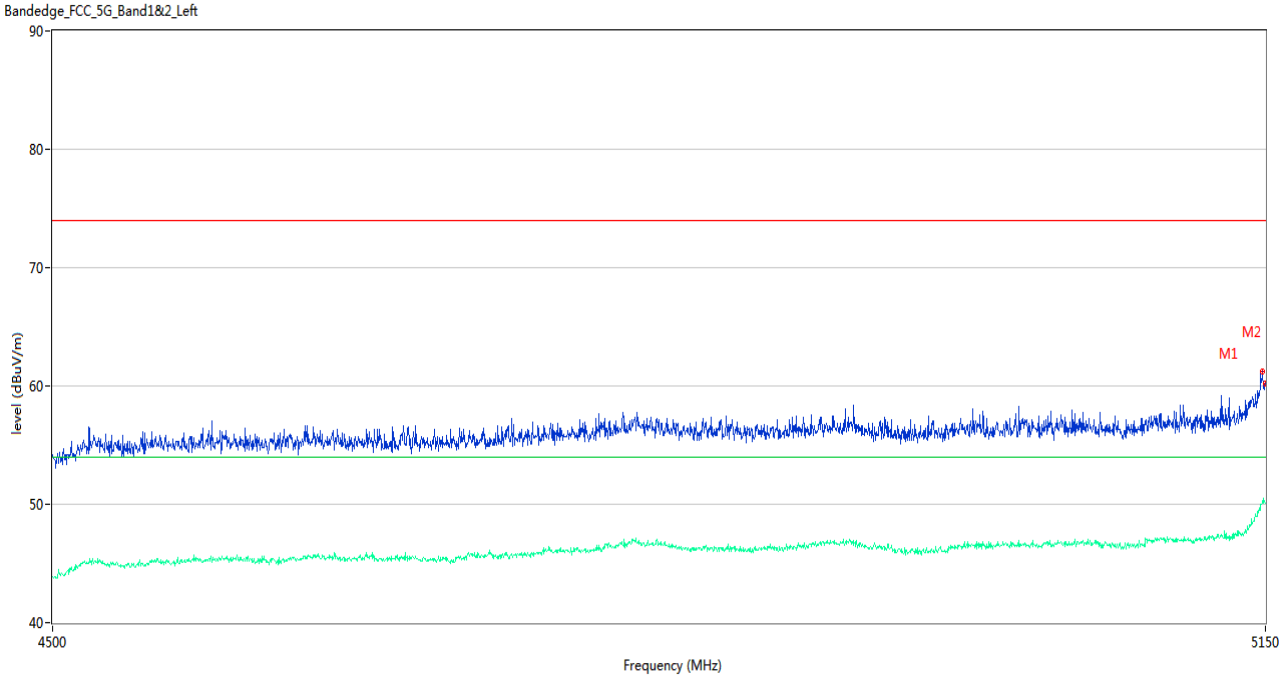
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5088.900	59.54	3.52	74.0	-14.46	Peak	315.00	150	Vertical	Pass
1**	5088.900	46.88	3.52	54.0	-7.12	AV	315.00	150	Vertical	Pass
2	5150.000	57.71	3.22	74.0	-16.29	Peak	319.00	150	Vertical	Pass
2**	5150.000	47.34	3.22	54.0	-6.66	AV	319.00	150	Vertical	Pass

U-NII-1 11ac20 CH48



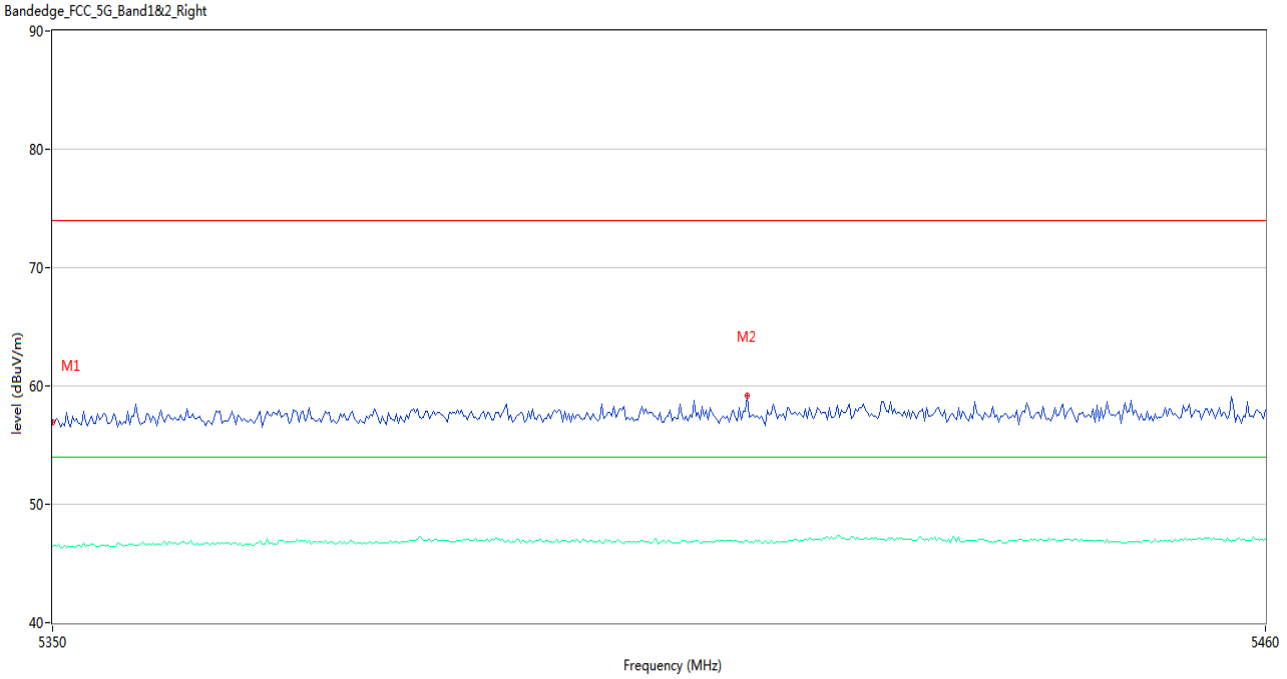
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	57.12	2.98	74.0	-16.88	Peak	275.00	150	Vertical	Pass
1**	5350.000	46.39	2.98	54.0	-7.61	AV	275.00	150	Vertical	Pass
2	5455.050	59.10	3.85	74.0	-14.90	Peak	144.00	150	Vertical	Pass
2**	5455.050	47.02	3.85	54.0	-6.98	AV	144.00	150	Vertical	Pass

U-NII-1 11ac40 CH38



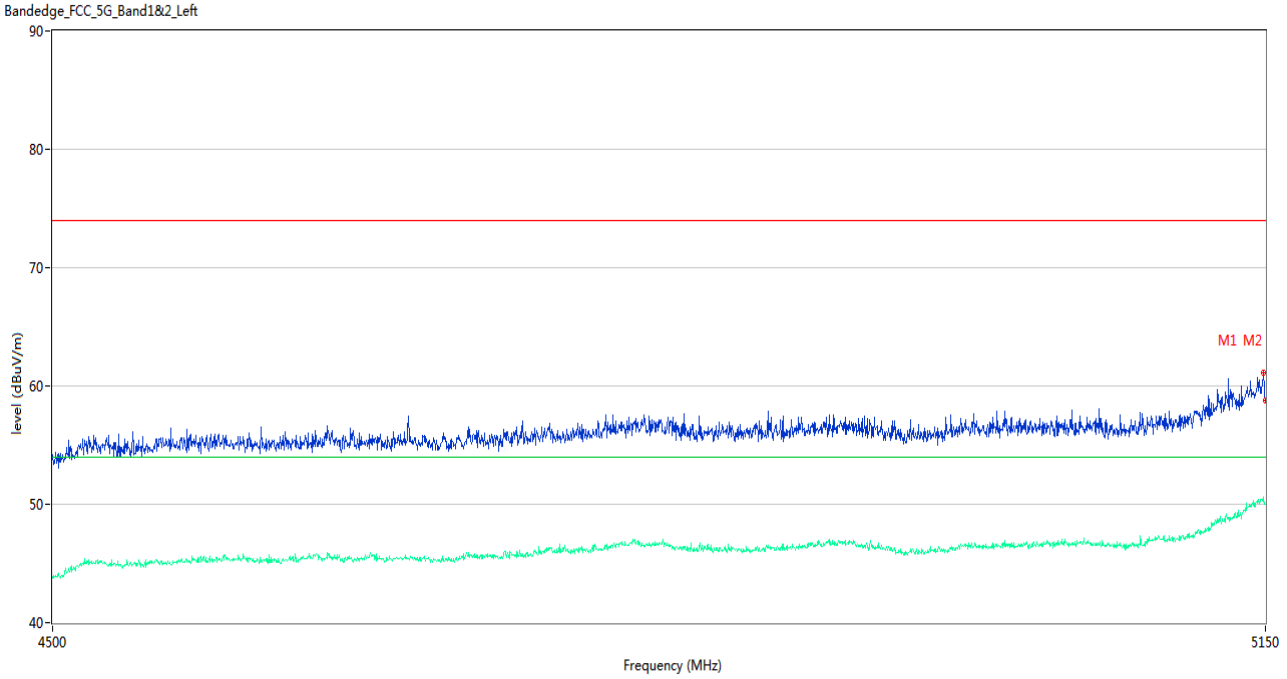
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.375	61.27	3.35	74.0	-12.73	Peak	303.00	150	Vertical	Pass
1**	5148.375	50.14	3.35	54.0	-3.86	AV	303.00	150	Vertical	Pass
2	5150.000	60.22	3.22	74.0	-13.78	Peak	78.00	150	Vertical	Pass
2**	5150.000	50.12	3.22	54.0	-3.88	AV	78.00	150	Vertical	Pass

U-NII-1 11ac40 CH46



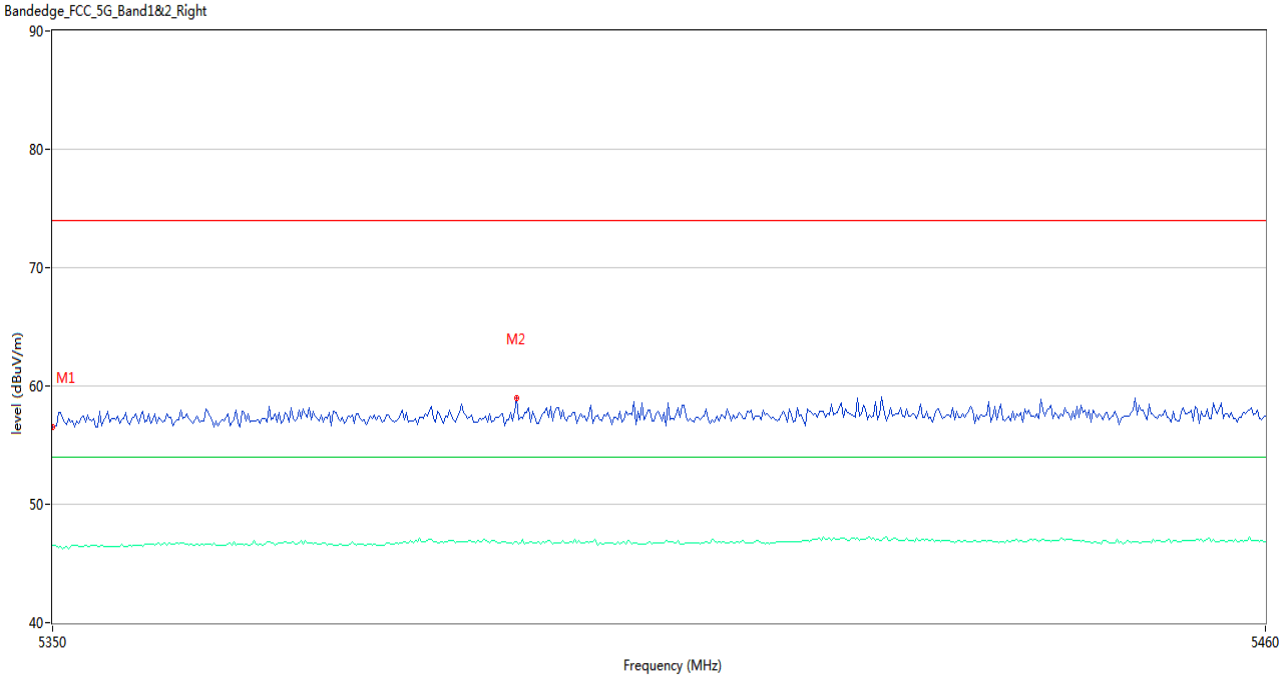
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.98	2.98	74.0	-17.02	Peak	0.00	150	Vertical	Pass
1**	5350.000	46.40	2.98	54.0	-7.60	AV	0.00	150	Vertical	Pass
2	5412.700	59.19	3.26	74.0	-14.81	Peak	7.00	150	Vertical	Pass
2**	5412.700	46.90	3.26	54.0	-7.10	AV	7.00	150	Vertical	Pass

U-NII-1 11ac80 CH42



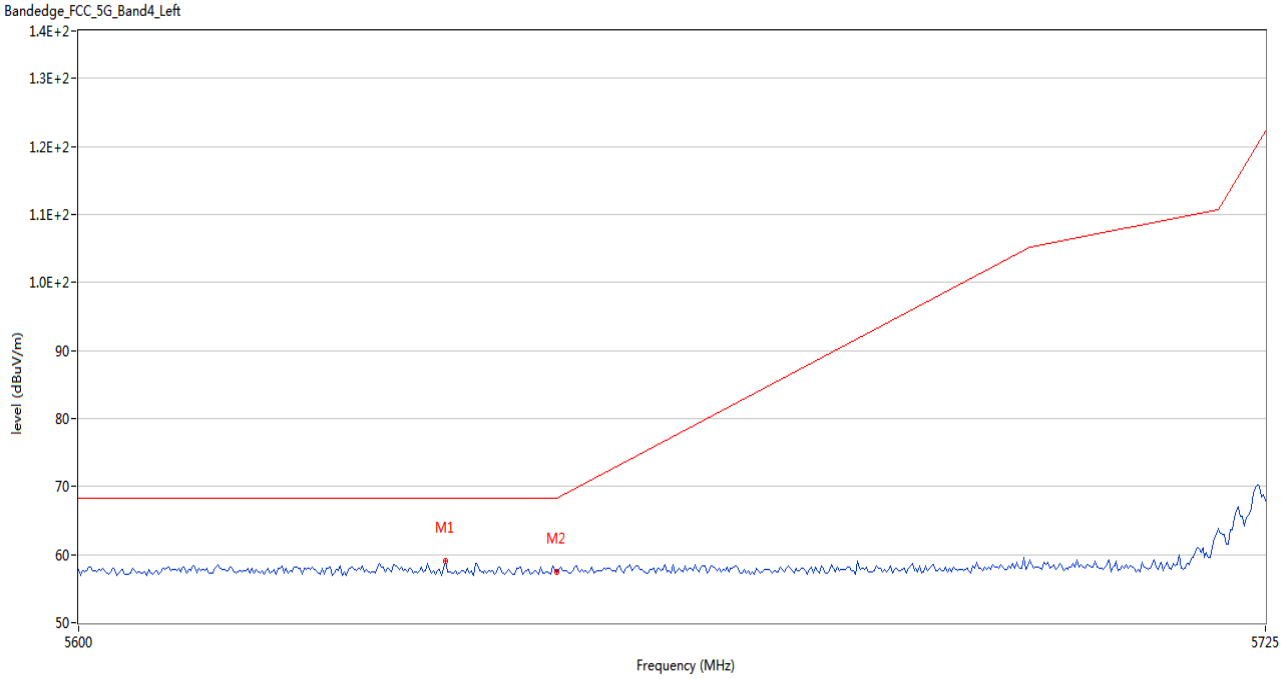
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.025	61.16	3.34	74.0	-12.84	Peak	164.00	150	Vertical	Pass
1**	5149.025	50.22	3.34	54.0	-3.78	AV	164.00	150	Vertical	Pass
2	5150.000	58.82	3.22	74.0	-15.18	Peak	141.00	150	Vertical	Pass
2**	5150.000	49.98	3.22	54.0	-4.02	AV	141.00	150	Vertical	Pass

U-NII-1 11ac80 CH42



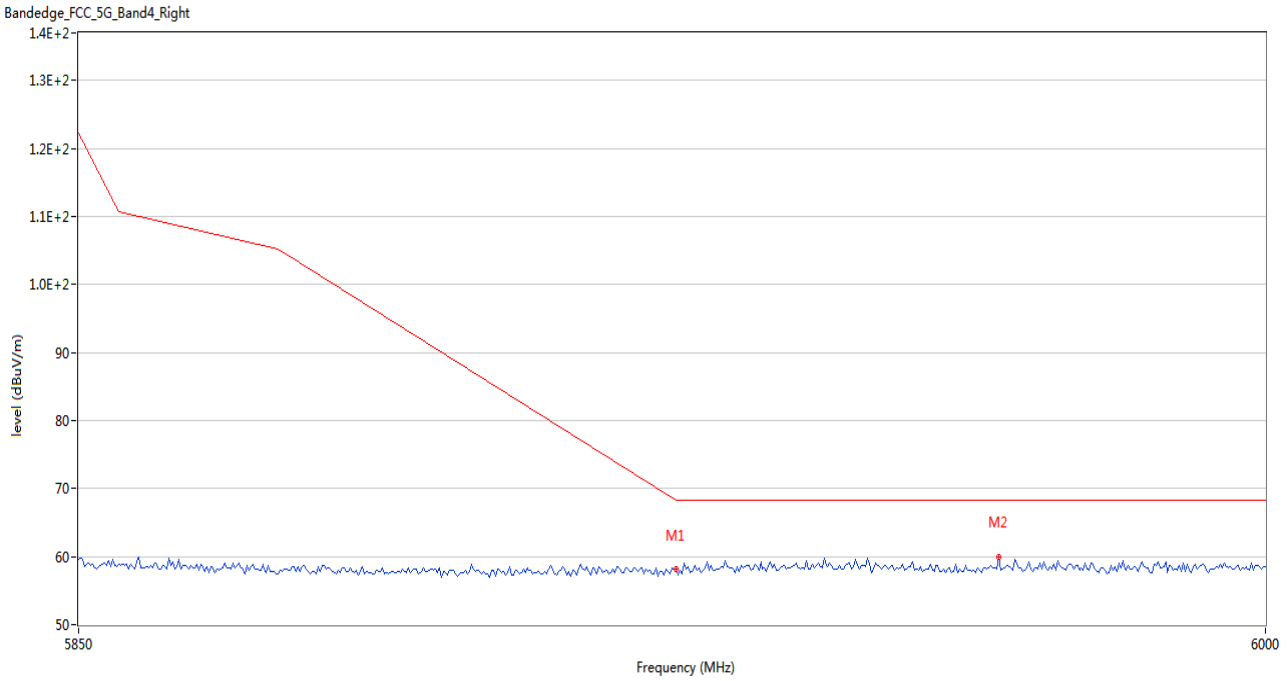
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.56	2.98	74.0	-17.44	Peak	40.00	150	Vertical	Pass
1**	5350.000	46.57	2.98	54.0	-7.43	AV	40.00	150	Vertical	Pass
2	5391.800	58.95	3.31	74.0	-15.05	Peak	90.00	150	Vertical	Pass
2**	5391.800	46.81	3.31	54.0	-7.19	AV	90.00	150	Vertical	Pass

U-NII-3 11a CH149



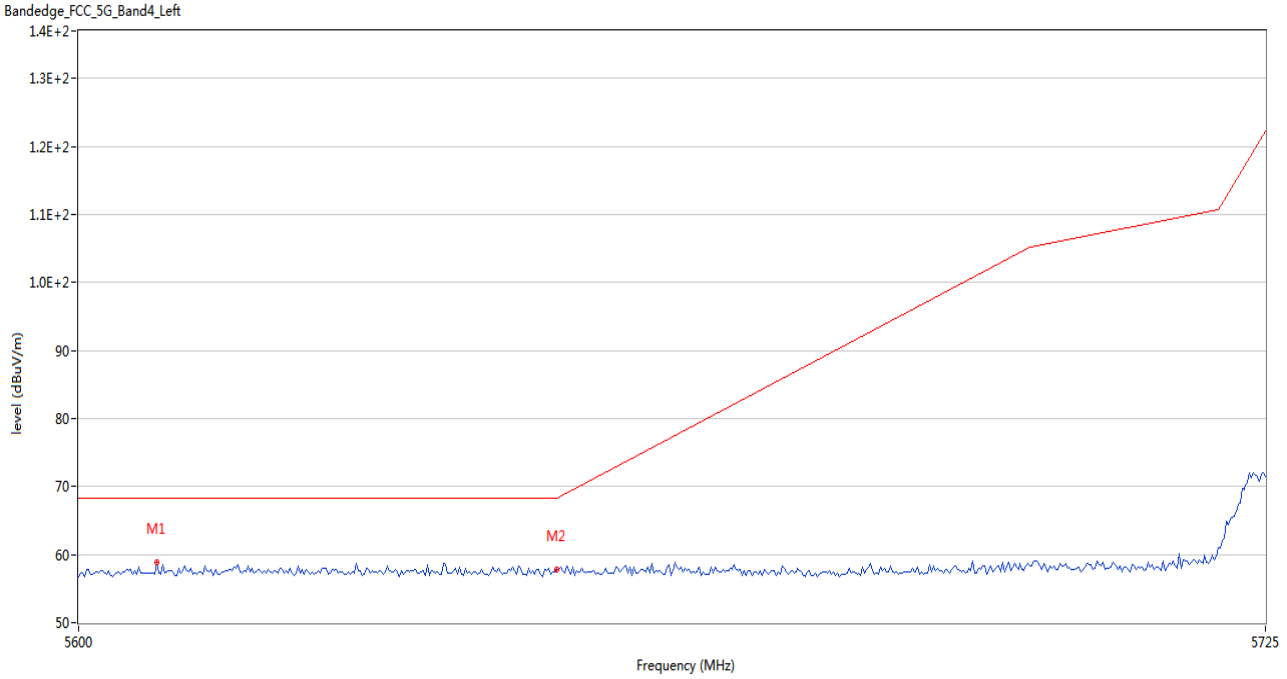
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5638.333	58.98	3.34	68.2	-9.22	Peak	360.00	150	Vertical	Pass
2	5650.000	57.46	3.60	68.2	-10.74	Peak	162.00	150	Vertical	Pass

U-NII-3 11a CH165



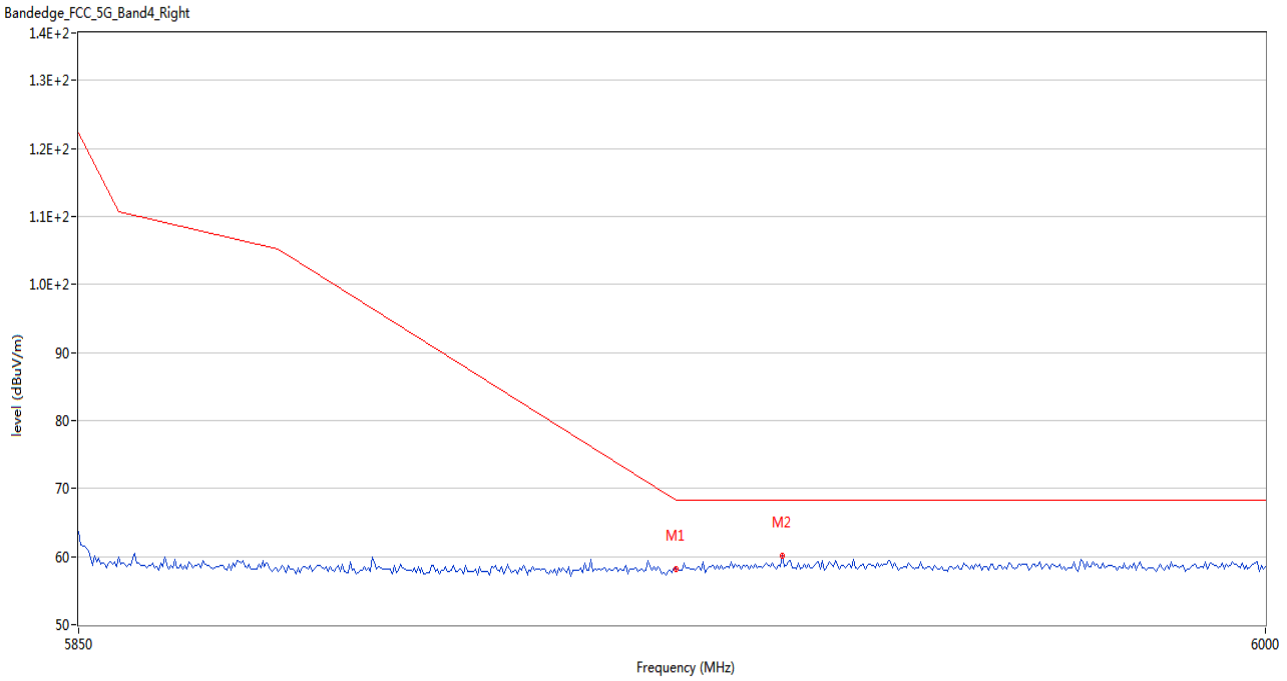
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.22	3.43	68.2	-9.98	Peak	22.00	150	Vertical	Pass
2	5966.000	60.00	4.87	68.2	-8.20	Peak	211.00	150	Vertical	Pass

U-NII-3 11n20 CH149



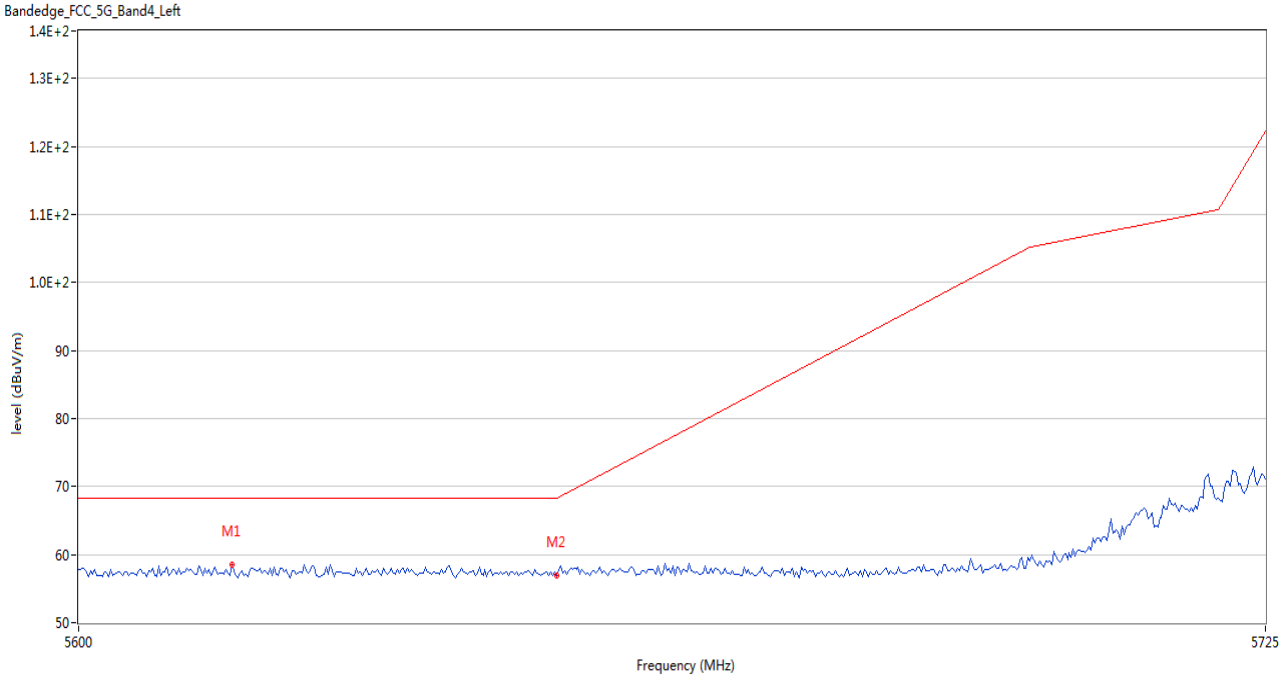
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5608.125	58.84	3.29	68.2	-9.36	Peak	223.00	150	Vertical	Pass
2	5650.000	57.85	3.60	68.2	-10.35	Peak	148.00	150	Vertical	Pass

U-NII-3 11n20 CH165



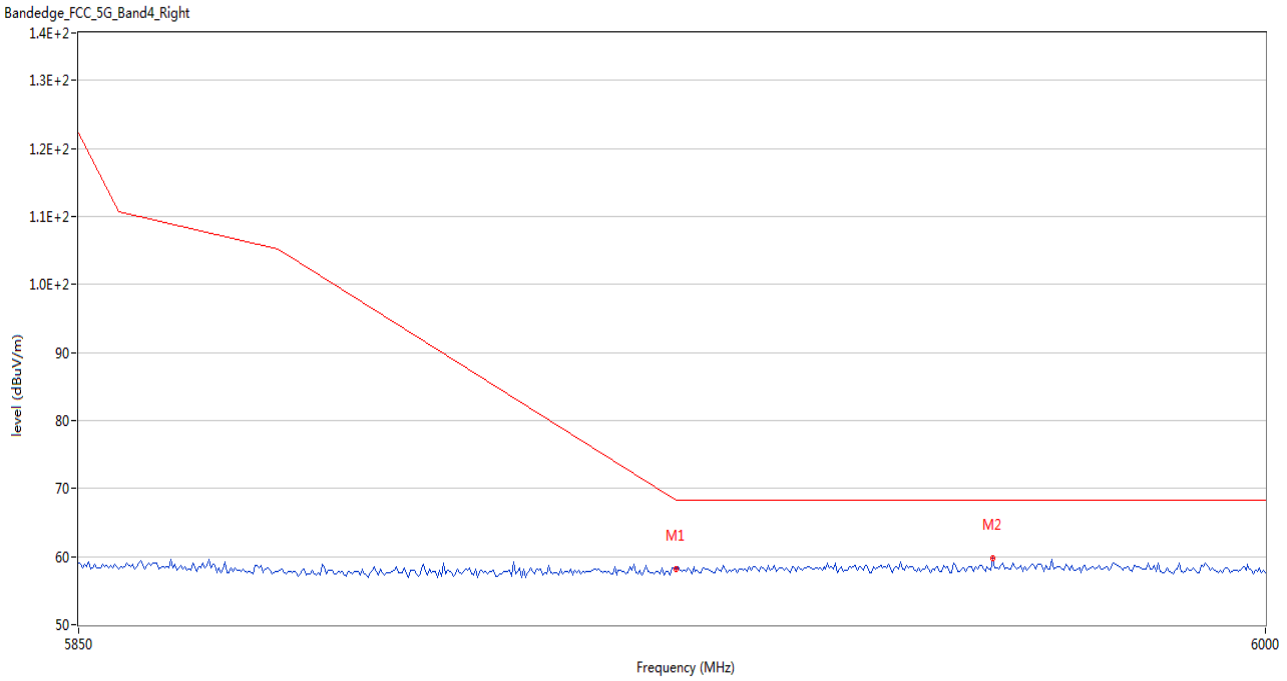
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.09	3.43	68.2	-10.11	Peak	155.00	150	Vertical	Pass
2	5938.500	60.09	4.09	68.2	-8.11	Peak	106.00	150	Vertical	Pass

U-NII-3 11n40 CH151



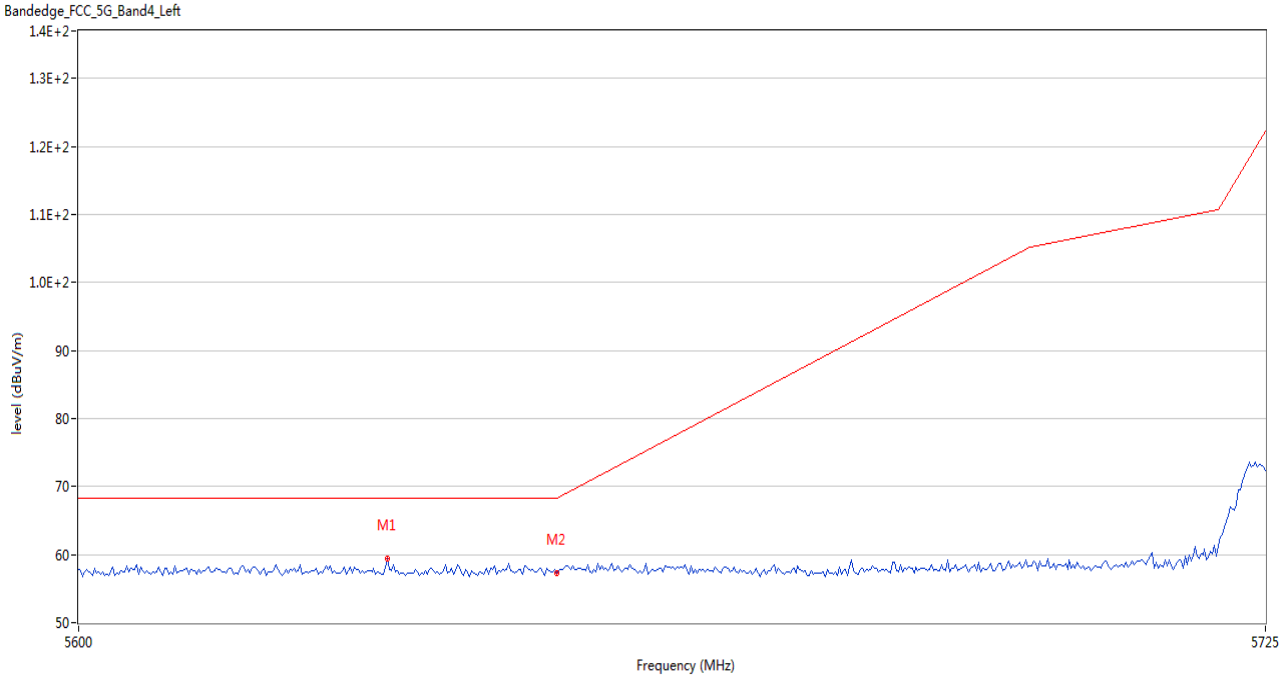
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5616.041	58.51	3.39	68.2	-9.69	Peak	326.00	150	Vertical	Pass
2	5650.000	56.90	3.60	68.2	-11.30	Peak	133.00	150	Vertical	Pass

U-NII-3 11n40 CH159



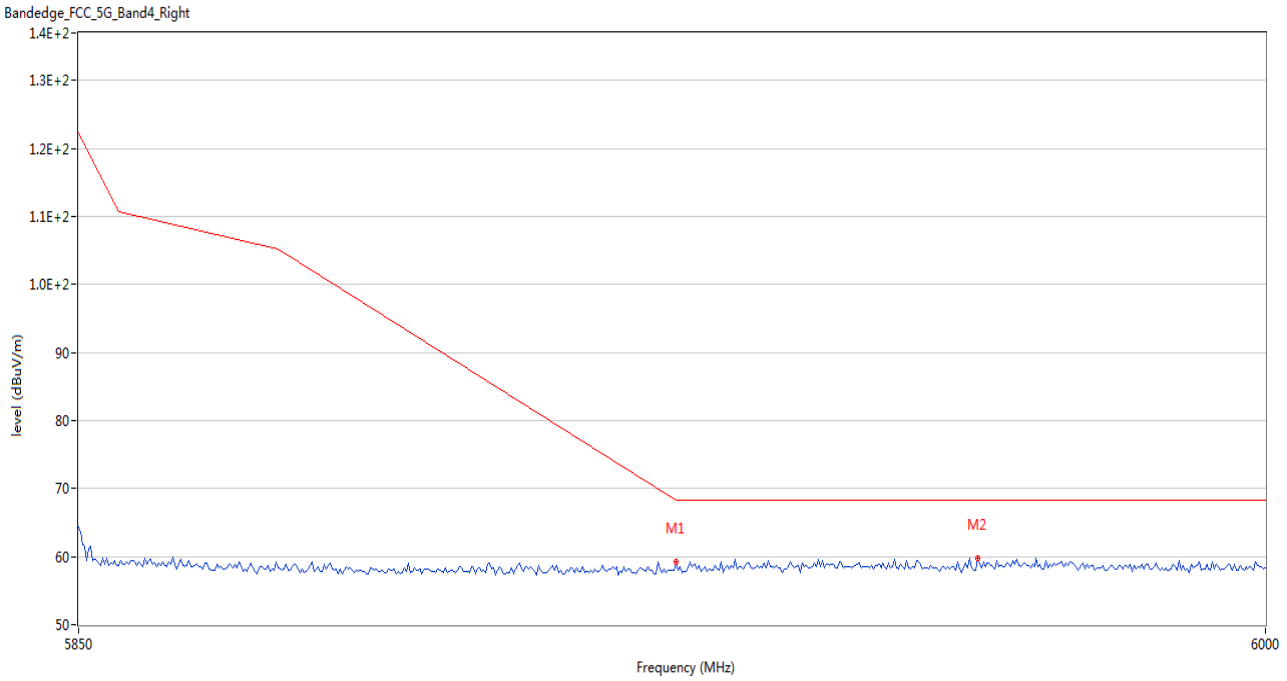
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.17	3.43	68.2	-10.03	Peak	360.00	150	Vertical	Pass
2	5965.250	59.75	4.83	68.2	-8.45	Peak	334.00	150	Vertical	Pass

U-NII-3 11ac20 CH149



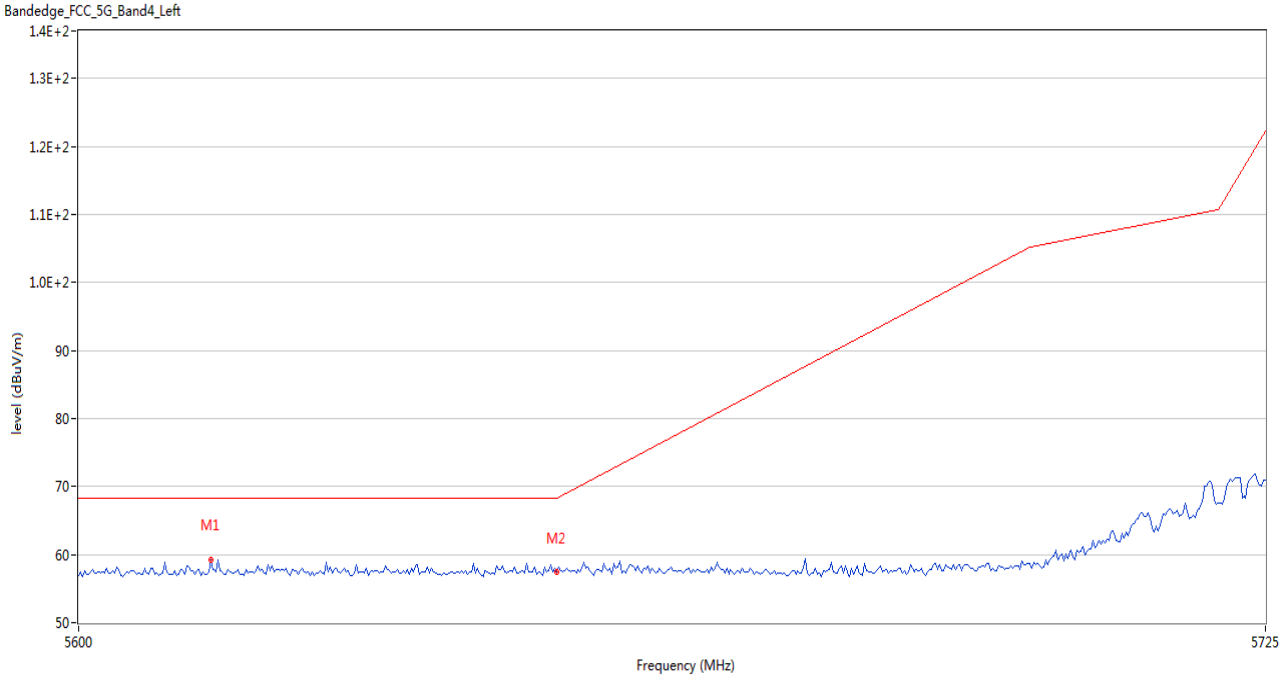
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5632.291	59.35	3.46	68.2	-8.85	Peak	146.00	150	Vertical	Pass
2	5650.000	57.25	3.60	68.2	-10.95	Peak	38.00	150	Vertical	Pass

U-NII-3 11ac20 CH165



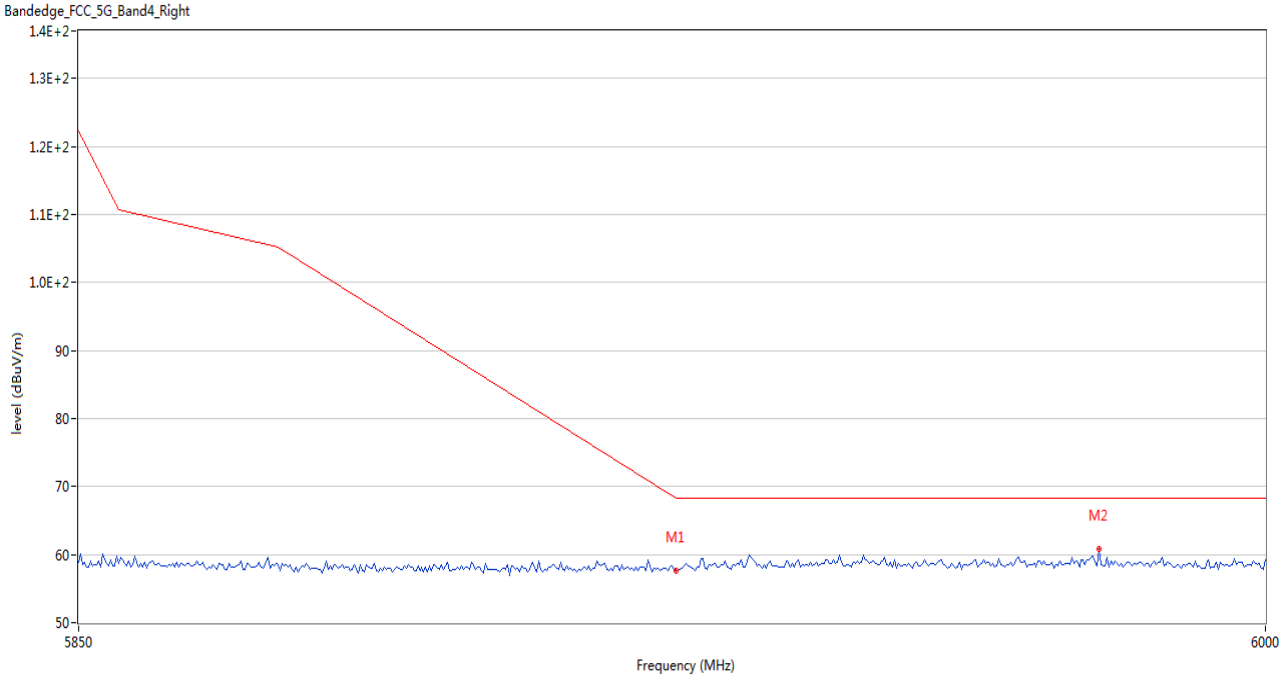
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	59.22	3.43	68.2	-8.98	Peak	278.00	150	Vertical	Pass
2	5963.250	59.76	4.76	68.2	-8.44	Peak	73.00	150	Vertical	Pass

U-NII-3 11ac40 CH151



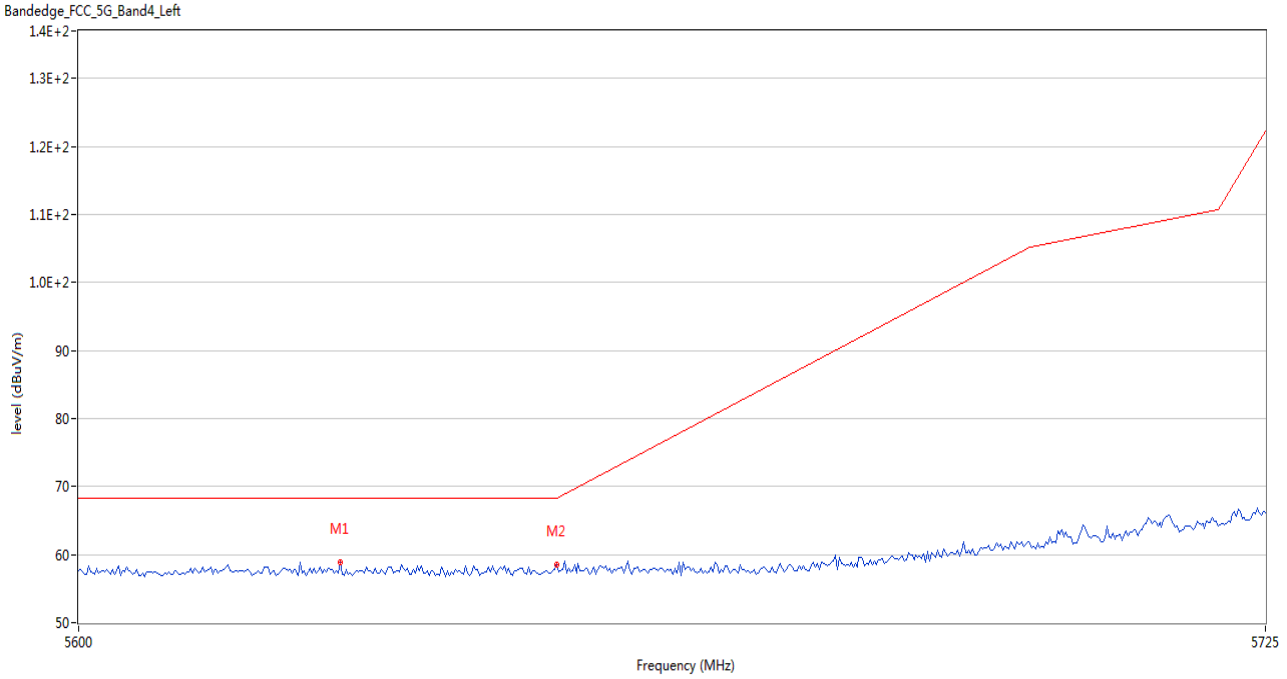
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5613.750	59.31	3.48	68.2	-8.89	Peak	334.00	150	Vertical	Pass
2	5650.000	57.45	3.60	68.2	-10.75	Peak	3.00	150	Vertical	Pass

U-NII-3 11ac40 CH159



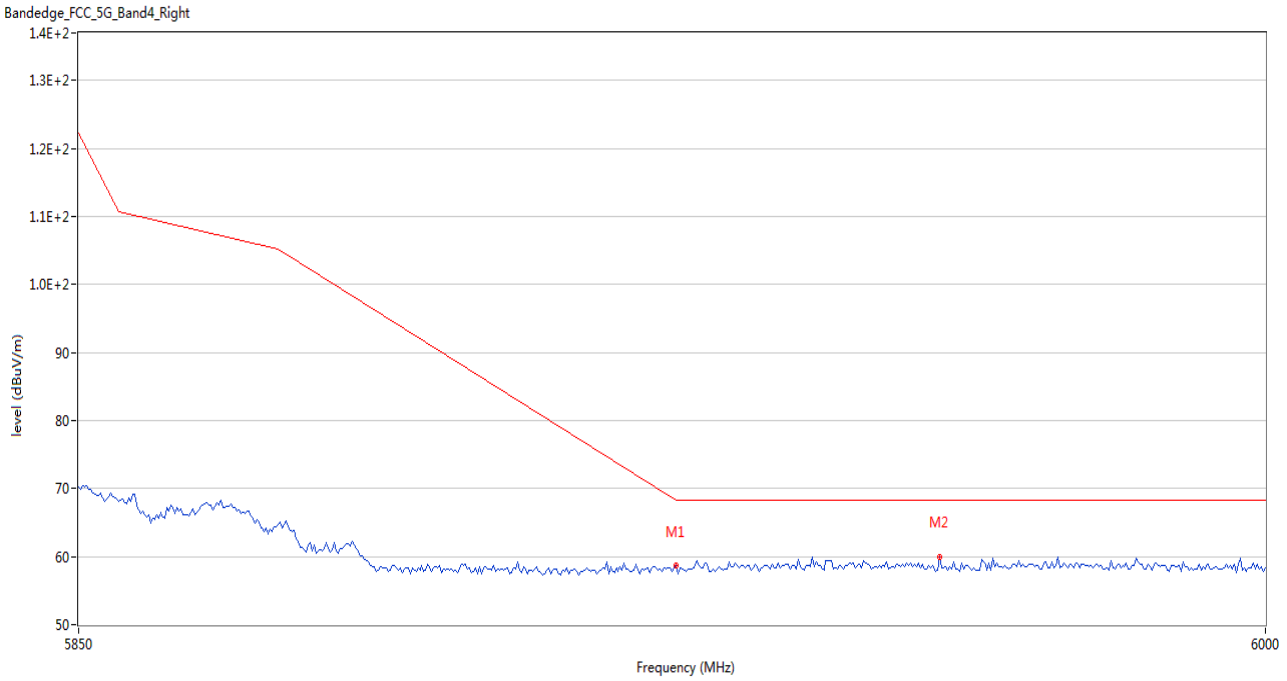
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.57	3.43	68.2	-10.63	Peak	125.00	150	Vertical	Pass
2	5978.750	60.87	4.57	68.2	-7.33	Peak	120.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5627.292	58.82	3.41	68.2	-9.38	Peak	306.00	150	Vertical	Pass
2	5650.000	58.53	3.60	68.2	-9.67	Peak	121.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.62	3.43	68.2	-9.58	Peak	12.00	150	Vertical	Pass
2	5958.500	60.02	4.62	68.2	-8.18	Peak	36.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2210449-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2210449-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2210449-AI.PDF”.

--END OF REPORT--