

TEST REPORT

Applicant: issin Inc.
Address: Entrepreneur Plaza 705 University of Tokyo 7-3-1 Hongo Bunkyo-ku, Tokyo, Japan
Equipment Type: Smart Bath Mat
Model Name: SBM24W01LJ
Brand Name: issin
FCC ID: 2A9ISSBM24W01LJ
Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date: Apr. 11, 2024
Test Date: Jun. 13, 2024 - Jun. 16, 2024
Date of Issue: Jul. 10, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie Zhu

Checked by: Ye Hongji

Approved by: Liao Jianming
(Technical Director)

Julie Zhu

Ye Hongji

Liao Jianming

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 27, 2024</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jul. 10, 2024</u>	<u>Updated Section 3.2 Test Verdict</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information.....	5
2.3	General Description for Equipment under Test (EUT).....	5
2.4	Technical Information	6
2.5	Channel List	7
3	SUMMARY OF TEST RESULTS	10
3.1	Test Standards	10
3.2	Test Verdict	10
4	GENERAL TEST CONFIGURATIONS	11
4.1	Test Environments.....	11
4.2	Test Equipment List.....	11
4.3	Test Software List.....	11
4.4	Measurement Uncertainty	12
4.5	Description of Test Setup	12
5	TEST ITEMS	15
5.1	RF Output Power	15
5.2	Emission Bandwidth and 6 dB Bandwidth.....	17
5.3	Power Spectral density (PSD)	18
5.4	Conducted Emission.....	19
5.5	Radiated Spurious Emissions and Band Edge (Restricted-band).....	20

ANNEX A	TEST RESULT	25
A.1	RF Output Power	25
A.2	Emission Bandwidth & 99% Bandwidth	27
A.3	6 dB Bandwidth	29
A.4	Power Spectral Density	30
A.5	Conducted Emissions	32
A.6	Radiated Spurious Emissions and Band Edge (Restricted-band).....	34
ANNEX B	TEST SETUP PHOTOS	94
ANNEX C	EUT EXTERNAL PHOTOS.....	94
ANNEX D	EUT INTERNAL PHOTOS.....	94

1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	issin Inc.
Address	Entrepreneur Plaza 705 University of Tokyo 7-3-1 Hongo Bunkyo-ku, Tokyo, Japan

2.2 Manufacturer Information

Manufacturer	Shenzhen Unique Scales Co., Ltd.
Address	301&601, no.22, Huanping Road, Gaoqiao Community Pingdi Street, Longgang District, Shenzhen City, China.

2.3 General Description for Equipment under Test (EUT)

EUT Name	Smart Bath Mat
Model Name Under Test	SBM24W01LJ
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0
Software Version	V 024.021
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BLE) 2.4G WIFI 802.11b, 802.11g and 802.11n(HT20) 5G WIFI 802.11a and 802.11n(HT20/40), U-NII-1/2A/2C/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-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Modulation technology	OFDM
Modulation Type	64QAM, 16QAM, BPSK, QPSK
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz
Maximum Output Power	U-NII-1: 74.82 mW U-NII-2A: 71.78 mW U-NII-2C: 70.15 mW U-NII-3: 73.79 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	FPC Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 3.32 dBi U-NII-2A: 5250 MHz to 5350 MHz: 2.96 dBi U-NII-2C: 5470 MHz to 5725 MHz: 3.97 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.72 dBi
About the Product	The equipment is Smart Bath Mat, intended for used with information technology equipment.

2.5 Channel List

20 MHz		40 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	151	5755
108	5540	159	5795
112	5560		
116	5580		
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		
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)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
44	Mid	5220	60	Mid	5300
48	High	5240	64	High	5320

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
100	Low	5500	149	Low	5745
116	Mid	5580	157	Mid	5785
140	High	5700	165	High	5825

For 802.11n(HT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	54	Low	5270
46	High	5230	62	High	5310

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
118	Mid	5590	159	High	5795
134	High	5670			

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

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

3.2 Test Verdict

No.	Description	FCC Part No.	RSS Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 6.2	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	RSS-247, 6.2	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	RSS-247, 6.2	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	RSS-247, 6.2	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	RSS-247, 6.2	ANNEX A.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	RSS-247, 6.2	ANNEX A.6	Pass
8	Frequency stability	15.407(g)	--	--	Pass ^{Note2}

Note¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note²: 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	54% to 65%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.9°C to +24.2°C
	LT (Low Temperature)	0.0°C
	HT (High Temperature)	+35.0°C
Working Voltage of the EUT	NV (Normal Voltage)	3.7 V
	LV (Low Voltage)	3.5 V
	HV (High Voltage)	4.2 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2023.12.27	2024.12.26
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2023.09.05	2024.09.04
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.23	2025.02.22
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2024.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2023.09.05	2024.09.04
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2023.09.05	2024.09.04
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2023.12.06	2024.12.05
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2024.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8 m	112	2022.02.19	2025.02.18

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

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

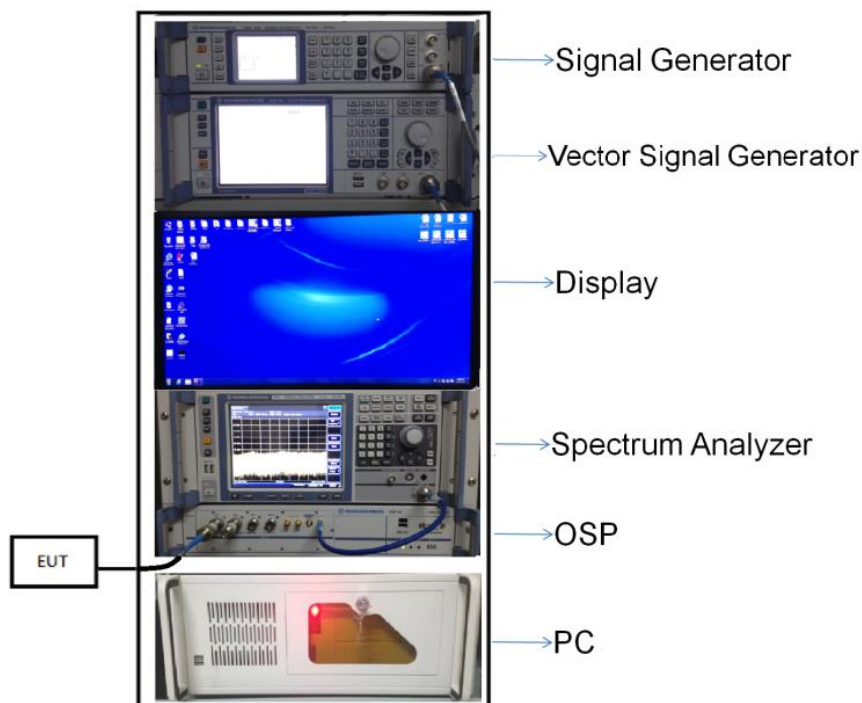
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

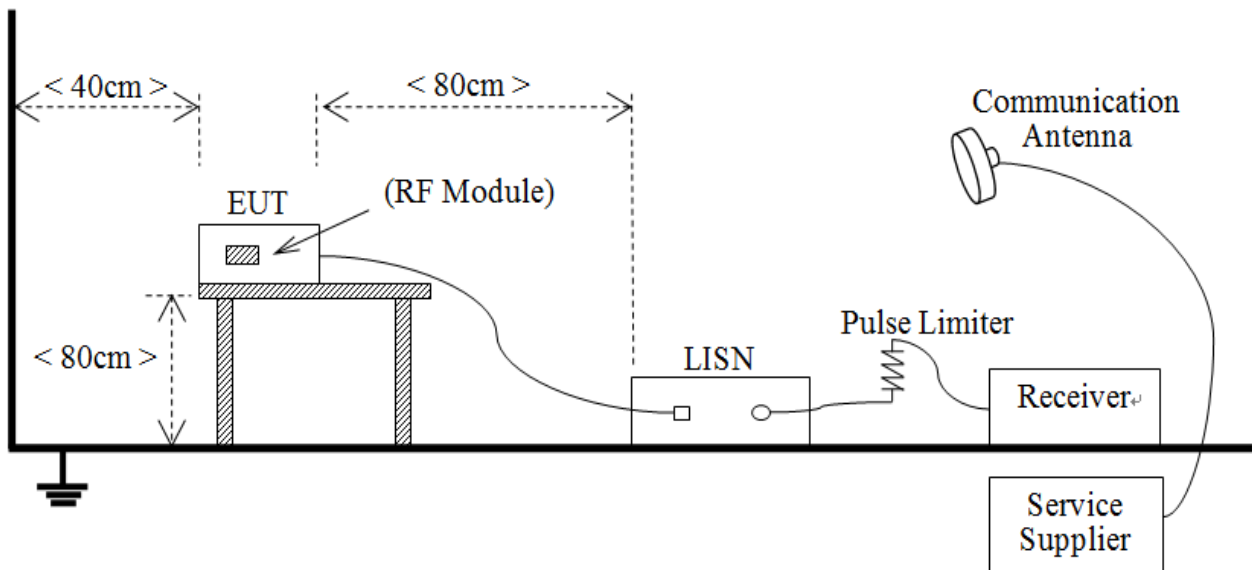
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



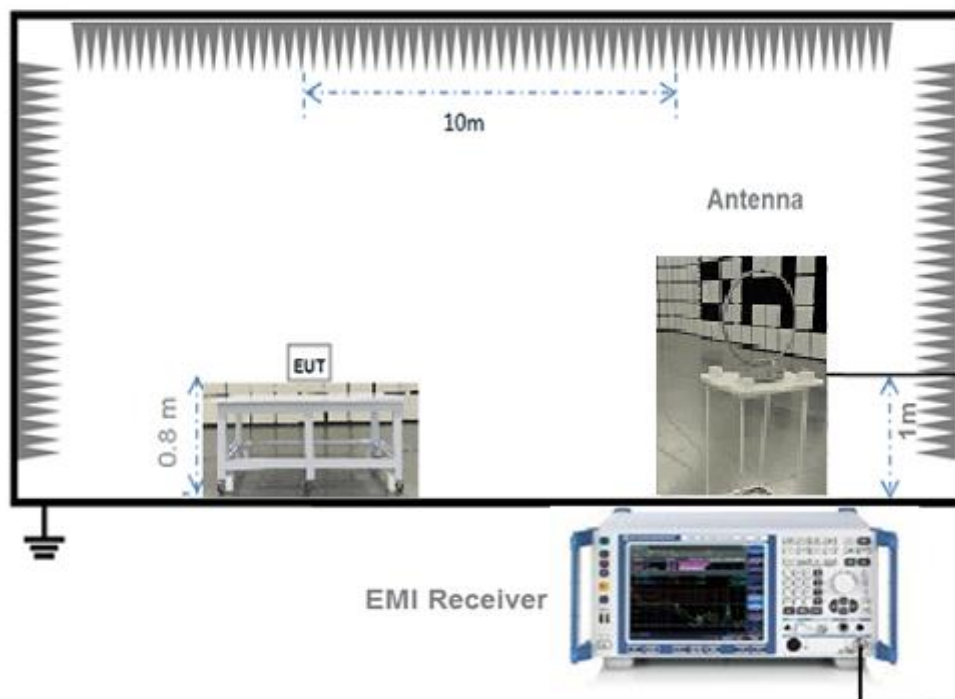
(Diagram 1)

4.5.2 For AC Power Supply Port Test



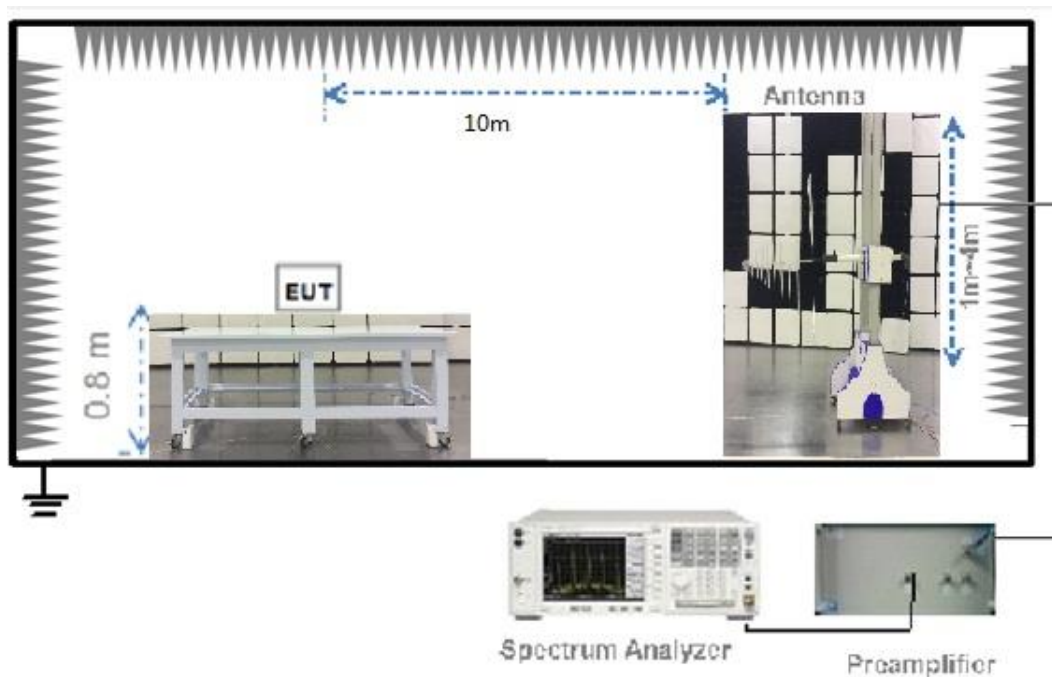
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



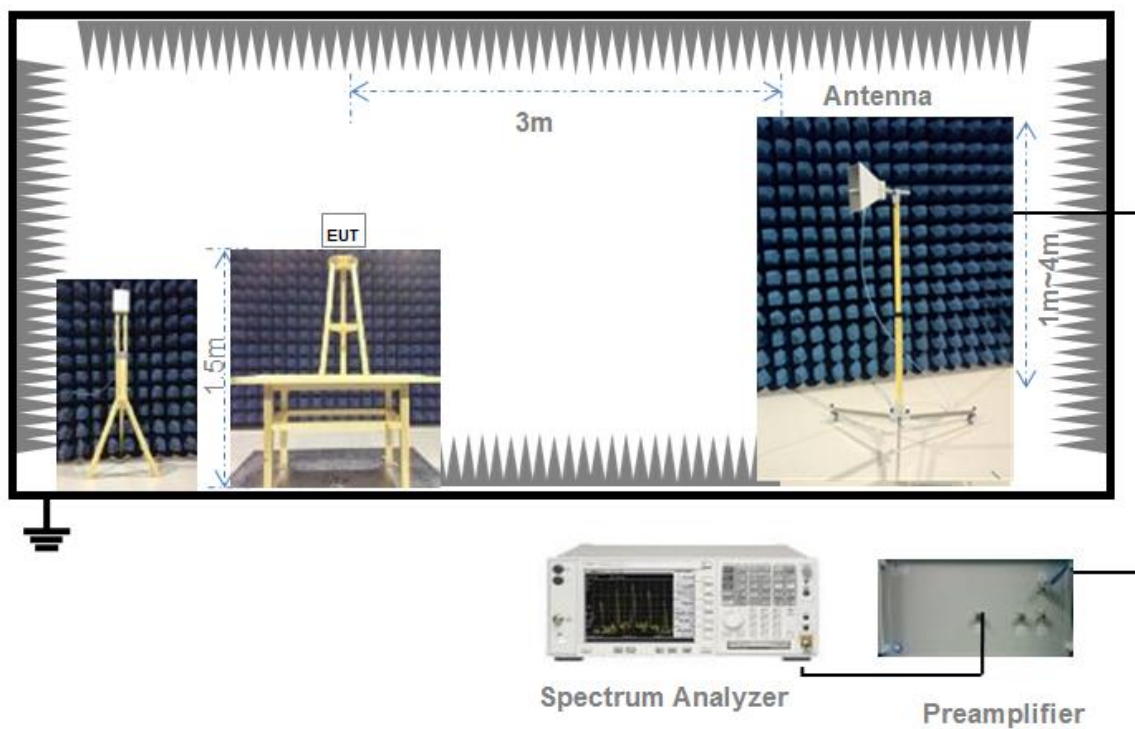
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle.

Measurements of duty cycle

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

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

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

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

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

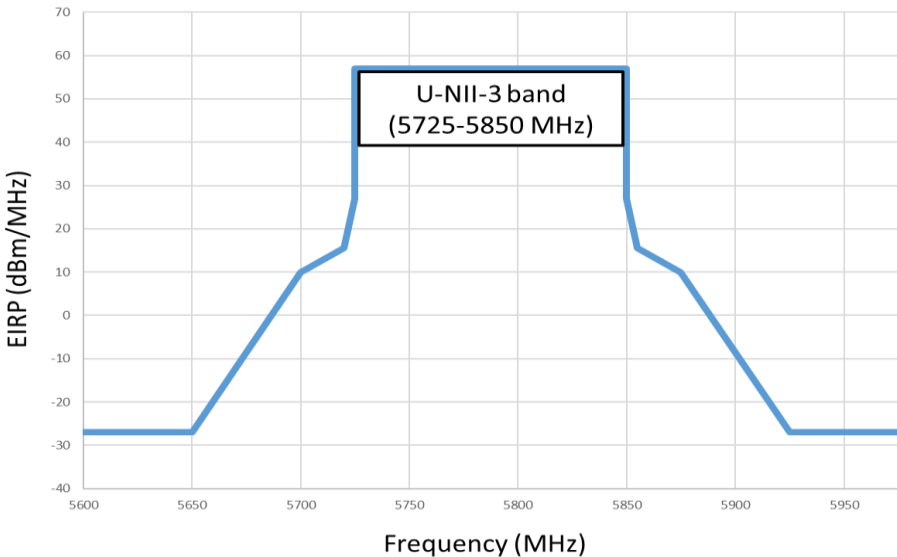
5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

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

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 appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- c) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- d) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- e) Compare the resultant electric field strength level to the applicable limit.
- f) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable

emission limits using a peak detector.

Peak power measurement procedure

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

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.

h) Perform a trace average of at least 100 traces.

i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.

3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	10.00	10.00	100.00%	0.00
11n (HT20)	10.00	10.00	100.00%	0.00
11n (HT40)	10.00	10.00	100.00%	0.00

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	18.52	71.12	250	Pass
11a	CH44	18.63	72.95	250	Pass
11a	CH48	18.74	74.82	250	Pass
11n (HT20)	CH36	18.35	68.39	250	Pass
11n (HT20)	CH44	18.36	68.55	250	Pass
11n (HT20)	CH48	18.62	72.78	250	Pass
11n (HT40)	CH38	14.77	29.99	250	Pass
11n (HT40)	CH46	18.66	73.45	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	18.25	66.83	250	Pass
11a	CH60	18.32	67.92	250	Pass
11a	CH64	18.03	63.53	250	Pass
11n (HT20)	CH52	18.23	66.53	250	Pass
11n (HT20)	CH60	18.25	66.83	250	Pass
11n (HT20)	CH64	18.13	65.01	250	Pass
11n (HT40)	CH54	18.56	71.78	250	Pass
11n (HT40)	CH62	15.61	36.39	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	14.14	25.94	250	Pass
11a	CH116	18.11	64.71	250	Pass
11a	CH140	18.46	70.15	250	Pass
11n (HT20)	CH100	14.48	28.05	250	Pass
11n (HT20)	CH116	18.33	68.08	250	Pass
11n (HT20)	CH140	17.36	54.45	250	Pass
11n (HT40)	CH102	13.25	21.13	250	Pass
11n (HT40)	CH118	18.45	69.98	250	Pass
11n (HT40)	CH134	18.08	64.27	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	18.65	73.28	1000	Pass
11a	CH157	18.31	67.76	1000	Pass
11a	CH165	18.44	69.82	1000	Pass
11n (HT20)	CH149	18.52	71.12	1000	Pass
11n (HT20)	CH157	18.23	66.53	1000	Pass
11n (HT20)	CH165	18.08	64.27	1000	Pass
11n (HT40)	CH151	18.68	73.79	1000	Pass
11n (HT40)	CH159	18.33	68.08	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2440541-603 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	21.00	16.73
11a	CH44	20.88	16.73
11a	CH48	20.88	16.73
11n (HT20)	CH36	21.96	17.77
11n (HT20)	CH44	21.76	17.77
11n (HT20)	CH48	21.80	17.77
11n (HT40)	CH38	39.00	35.89
11n (HT40)	CH46	40.10	36.01

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	20.68	16.61
11a	CH60	20.72	16.61
11a	CH64	20.76	16.67
11n (HT20)	CH52	21.68	17.77
11n (HT20)	CH60	21.72	17.77
11n (HT20)	CH64	22.00	17.89
11n (HT40)	CH54	39.20	35.89
11n (HT40)	CH62	38.90	35.89

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	20.76	16.67
11a	CH116	20.72	16.67
11a	CH140	20.68	16.61
11n (HT20)	CH100	21.48	17.77
11n (HT20)	CH116	22.00	17.83
11n (HT20)	CH140	21.56	17.77
11n (HT40)	CH102	39.00	36.01
11n (HT40)	CH118	40.20	36.01
11n (HT40)	CH134	39.00	36.01

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.68	16.67
11a	CH157	20.80	16.61
11a	CH165	20.76	16.73
11n (HT20)	CH149	21.68	17.77
11n (HT20)	CH157	21.64	17.77
11n (HT20)	CH165	21.68	17.77
11n (HT40)	CH151	39.20	36.01
11n (HT40)	CH159	39.00	35.89

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2440541-603 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.64	500.00	Pass
11a	CH157	16.64	500.00	Pass
11a	CH165	16.64	500.00	Pass
11n (HT20)	CH149	17.74	500.00	Pass
11n (HT20)	CH157	17.74	500.00	Pass
11n (HT20)	CH165	17.74	500.00	Pass
11n (HT40)	CH151	36.50	500.00	Pass
11n (HT40)	CH159	36.60	500.00	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document “Annex No.: BL-SZ2440541-603 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	7.03	11.00	Pass
11a	CH44	6.96	11.00	Pass
11a	CH48	7.19	11.00	Pass
11n (HT20)	CH36	6.10	11.00	Pass
11n (HT20)	CH44	6.35	11.00	Pass
11n (HT20)	CH48	6.42	11.00	Pass
11n (HT40)	CH38	0.07	11.00	Pass
11n (HT40)	CH46	4.24	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	6.47	11.00	Pass
11a	CH60	6.34	11.00	Pass
11a	CH64	6.12	11.00	Pass
11n (HT20)	CH52	6.07	11.00	Pass
11n (HT20)	CH60	6.00	11.00	Pass
11n (HT20)	CH64	6.03	11.00	Pass
11n (HT40)	CH54	3.57	11.00	Pass
11n (HT40)	CH62	0.91	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	2.58	11.00	Pass
11a	CH116	6.36	11.00	Pass
11a	CH140	5.94	11.00	Pass
11n (HT20)	CH100	2.63	11.00	Pass
11n (HT20)	CH116	6.09	11.00	Pass
11n (HT20)	CH140	5.38	11.00	Pass
11n (HT40)	CH102	-1.36	11.00	Pass
11n (HT40)	CH118	3.49	11.00	Pass
11n (HT40)	CH134	3.01	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	2.97	30.00	Pass
11a	CH157	2.86	30.00	Pass
11a	CH165	2.86	30.00	Pass
11n (HT20)	CH149	2.84	30.00	Pass
11n (HT20)	CH157	2.56	30.00	Pass
11n (HT20)	CH165	2.61	30.00	Pass
11n (HT40)	CH151	0.89	30.00	Pass
11n (HT40)	CH159	0.33	30.00	Pass

A.5 Conducted Emissions

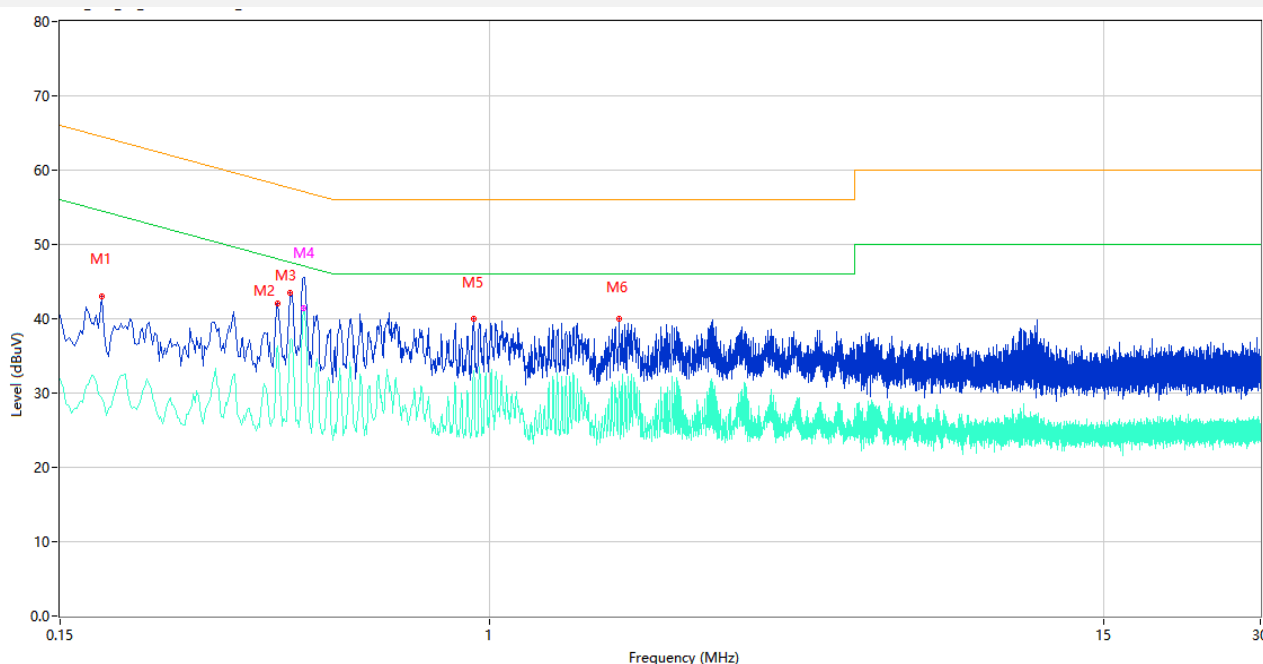
Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

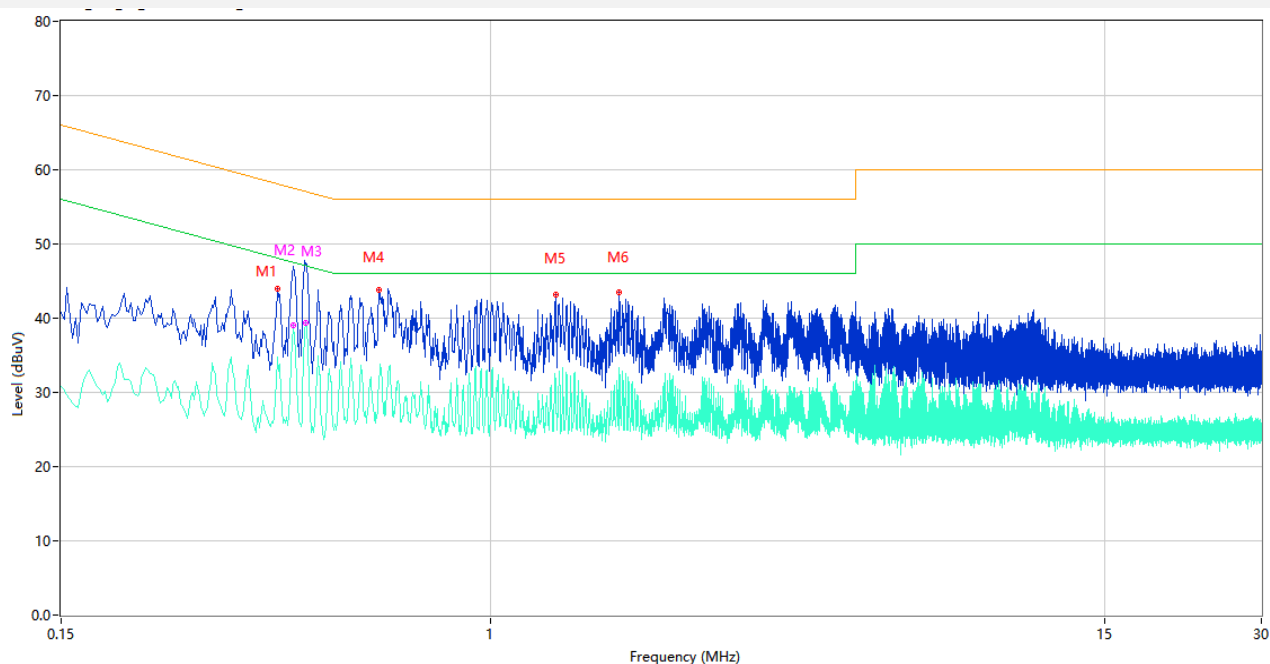
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.180	43.03	9.78	64.49	21.46	Peak	L	Pass
1**	0.180	29.35	9.78	54.49	25.14	AV	L	Pass
2	0.392	42.08	10.59	58.02	15.94	Peak	L	Pass
2**	0.392	36.29	10.59	48.02	11.73	AV	L	Pass
3	0.414	43.47	10.41	57.57	14.10	Peak	L	Pass
3**	0.414	37.10	10.41	47.57	10.47	AV	L	Pass
4	0.440	45.61	10.13	57.06	11.45	Peak	L	Pass
4**	0.440	41.45	10.13	47.06	5.61	AV	L	Pass
5	0.930	40.01	10.10	56.00	15.99	Peak	L	Pass
5**	0.930	32.96	10.10	46.00	13.04	AV	L	Pass
6	1.768	40.02	10.16	56.00	15.98	Peak	L	Pass
6**	1.768	31.63	10.16	46.00	14.37	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.390	44.01	10.59	58.06	14.05	Peak	N	Pass
1**	0.390	34.76	10.59	48.06	13.30	AV	N	Pass
2	0.418	46.96	10.36	57.49	10.53	Peak	N	Pass
2**	0.418	39.11	10.36	47.49	8.38	AV	N	Pass
3	0.442	47.23	10.11	57.02	9.79	Peak	N	Pass
3**	0.442	39.43	10.11	47.02	7.59	AV	N	Pass
4	0.610	43.77	10.17	56.00	12.23	Peak	N	Pass
4**	0.610	31.82	10.17	46.00	14.18	AV	N	Pass
5	1.330	43.15	10.20	56.00	12.85	Peak	N	Pass
5**	1.330	31.64	10.20	46.00	14.36	AV	N	Pass
6	1.762	43.55	10.16	56.00	12.45	Peak	N	Pass
6**	1.762	32.86	10.16	46.00	13.14	AV	N	Pass

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

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

Note²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

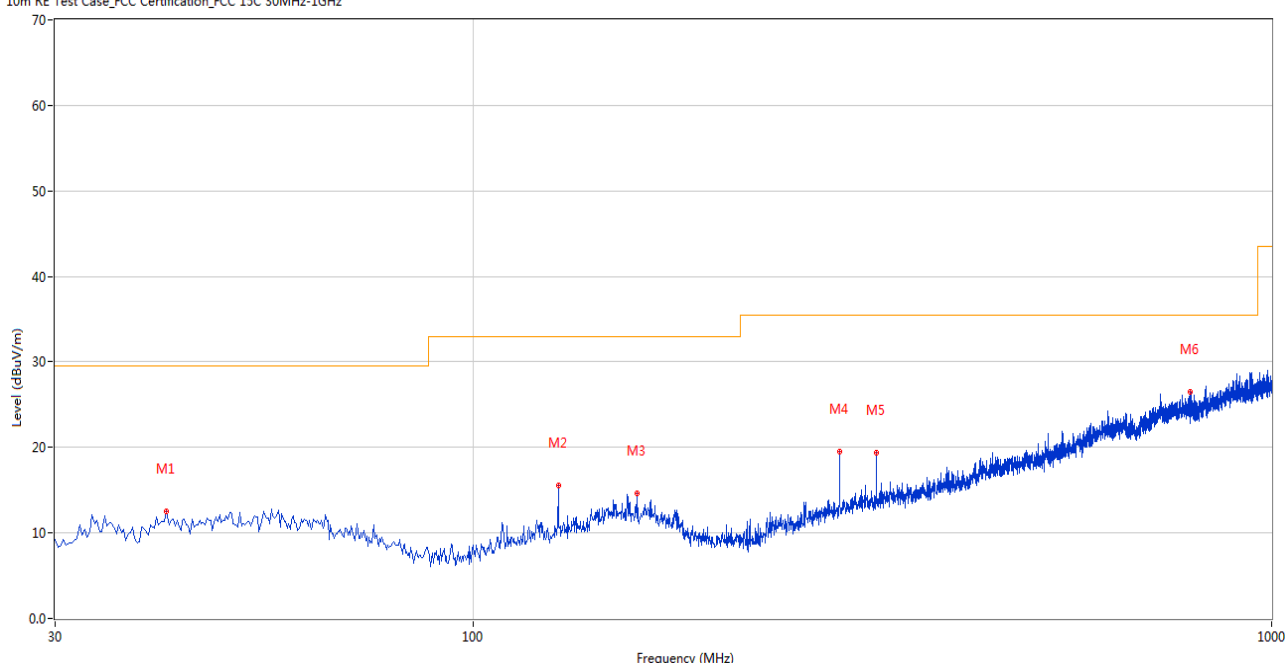
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

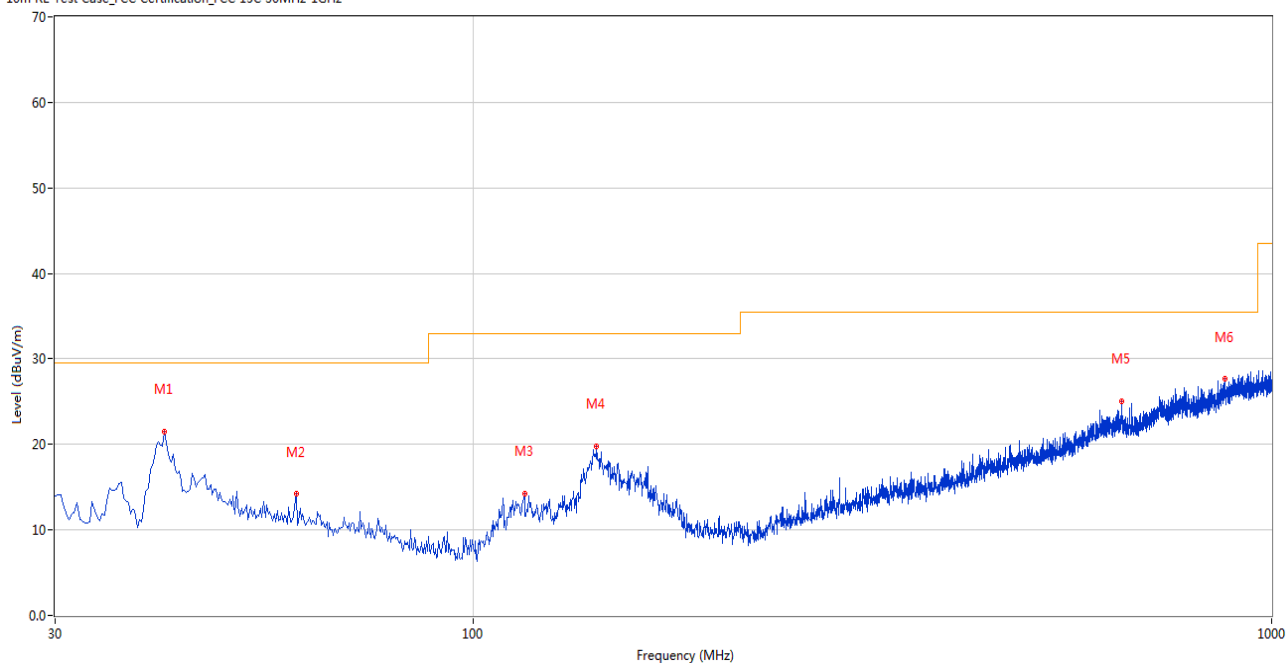
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.395	12.55	-26.42	29.5	16.95	Peak	253.00	200	Horizontal	Pass
2	127.946	15.58	-27.27	33.0	17.42	Peak	199.00	100	Horizontal	Pass
3	160.675	14.59	-25.71	33.0	18.41	Peak	302.00	200	Horizontal	Pass
4	287.956	19.51	-25.18	35.5	15.99	Peak	134.00	200	Horizontal	Pass
5	319.958	19.34	-24.36	35.5	16.16	Peak	0.00	200	Horizontal	Pass
6	791.745	26.49	-12.91	35.5	9.01	Peak	79.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.152	21.49	-26.43	29.5	8.01	Peak	123.00	100	Vertical	Pass
2	60.062	14.18	-26.52	29.5	15.32	Peak	314.00	200	Vertical	Pass
3	116.066	14.25	-28.54	33.0	18.75	Peak	155.00	100	Vertical	Pass
4	142.977	19.76	-25.95	33.0	13.24	Peak	166.00	100	Vertical	Pass
5	648.948	25.08	-15.55	35.5	10.42	Peak	249.00	200	Vertical	Pass
6	872.962	27.63	-11.18	35.5	7.87	Peak	0.00	200	Vertical	Pass

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1492.700	39.44	-16.88	74.0	34.56	Peak	289.00	300	Horizontal	Pass
1**	1492.700	29.29	-16.88	54.0	24.71	AV	289.00	300	Horizontal	Pass
2	4369.800	50.79	-4.01	74.0	23.21	Peak	222.00	200	Horizontal	Pass
2**	4369.800	41.72	-4.01	54.0	12.28	AV	222.00	200	Horizontal	Pass
3	5176.600	109.16	-2.52	--	--	Peak	17.00	100	Horizontal	N/A
3**	5176.600	102.00	-2.52	--	--	AV	17.00	100	Horizontal	N/A
4	7607.775	50.89	-3.19	74.0	23.11	Peak	0.00	100	Horizontal	Pass
4**	7607.775	39.62	-3.19	54.0	14.38	AV	0.00	100	Horizontal	Pass
5	12229.913	53.23	1.30	74.0	20.77	Peak	153.00	200	Horizontal	Pass
5**	12229.913	43.55	1.30	54.0	10.45	AV	153.00	200	Horizontal	Pass
6	15801.300	56.01	2.32	74.0	17.99	Peak	127.00	100	Horizontal	Pass
6**	15801.300	46.82	2.32	54.0	7.18	AV	127.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1493.300	41.54	-16.88	74.0	32.46	Peak	115.00	300	Vertical	Pass
1**	1493.300	29.37	-16.88	54.0	24.63	AV	115.00	300	Vertical	Pass
2	4397.400	50.87	-4.21	74.0	23.13	Peak	314.00	400	Vertical	Pass
2**	4397.400	41.60	-4.21	54.0	12.40	AV	314.00	400	Vertical	Pass
3	5177.400	108.29	-2.52	--	--	Peak	61.00	150	Vertical	N/A
3**	5177.400	100.92	-2.52	--	--	AV	61.00	150	Vertical	N/A
4	7338.100	49.91	-2.89	74.0	24.09	Peak	348.00	100	Vertical	Pass
4**	7338.100	40.82	-2.89	54.0	13.18	AV	348.00	100	Vertical	Pass
5	12314.150	52.84	1.40	74.0	21.16	Peak	228.00	150	Vertical	Pass
5**	12314.150	44.63	1.40	54.0	9.37	AV	228.00	150	Vertical	Pass
6	15798.674	55.95	2.29	74.0	18.05	Peak	41.00	100	Vertical	Pass
6**	15798.674	46.72	2.29	54.0	7.28	AV	41.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.500	38.74	-17.22	74.0	35.26	Peak	244.00	100	Horizontal	Pass
1**	1498.500	28.48	-17.22	54.0	25.52	AV	244.00	100	Horizontal	Pass
2	4379.400	50.70	-3.32	74.0	23.30	Peak	123.00	300	Horizontal	Pass
2**	4379.400	42.36	-3.32	54.0	11.64	AV	123.00	300	Horizontal	Pass
3	5225.400	109.15	-2.55	--	--	Peak	360.00	200	Horizontal	N/A
3**	5225.400	101.60	-2.55	--	--	AV	360.00	200	Horizontal	N/A
4	7339.825	50.32	-2.95	74.0	23.68	Peak	360.00	400	Horizontal	Pass
4**	7339.825	41.06	-2.95	54.0	12.94	AV	360.00	400	Horizontal	Pass
5	12261.537	53.57	1.14	74.0	20.43	Peak	86.00	100	Horizontal	Pass
5**	12261.537	44.54	1.14	54.0	9.46	AV	86.00	100	Horizontal	Pass
6	15853.013	56.01	1.25	74.0	17.99	Peak	59.00	100	Horizontal	Pass
6**	15853.013	46.09	1.25	54.0	7.91	AV	59.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1493.900	39.18	-16.88	74.0	34.82	Peak	50.00	100	Vertical	Pass
1**	1493.900	29.44	-16.88	54.0	24.56	AV	50.00	100	Vertical	Pass
2	4360.600	50.85	-4.00	74.0	23.15	Peak	244.00	300	Vertical	Pass
2**	4360.600	41.20	-4.00	54.0	12.80	AV	244.00	300	Vertical	Pass
3	5225.400	108.32	-2.55	--	--	Peak	62.00	200	Vertical	N/A
3**	5225.400	100.43	-2.55	--	--	AV	62.00	200	Vertical	N/A
4	7380.650	49.63	-3.44	74.0	24.37	Peak	194.00	300	Vertical	Pass
4**	7380.650	40.59	-3.44	54.0	13.41	AV	194.00	300	Vertical	Pass
5	12308.975	53.25	1.37	74.0	20.75	Peak	40.00	150	Vertical	Pass
5**	12308.975	43.72	1.37	54.0	10.28	AV	40.00	150	Vertical	Pass
6	15637.763	56.28	1.44	74.0	17.72	Peak	347.00	400	Vertical	Pass
6**	15637.763	47.33	1.44	54.0	6.67	AV	347.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.400	38.77	-17.08	74.0	35.23	Peak	176.00	200	Horizontal	Pass
1**	1508.400	28.95	-17.08	54.0	25.05	AV	176.00	200	Horizontal	Pass
2	4396.200	50.72	-3.97	74.0	23.28	Peak	241.00	100	Horizontal	Pass
2**	4396.200	41.10	-3.97	54.0	12.90	AV	241.00	100	Horizontal	Pass
3	5242.400	109.33	-2.41	--	--	Peak	39.00	150	Horizontal	N/A
3**	5242.400	102.08	-2.41	--	--	AV	39.00	150	Horizontal	N/A
4	7332.638	49.94	-3.21	74.0	24.06	Peak	330.00	300	Horizontal	Pass
4**	7332.638	41.03	-3.21	54.0	12.97	AV	330.00	300	Horizontal	Pass
5	12305.526	53.32	1.39	74.0	20.68	Peak	214.00	100	Horizontal	Pass
5**	12305.526	43.44	1.39	54.0	10.56	AV	214.00	100	Horizontal	Pass
6	16144.125	56.17	1.03	74.0	17.83	Peak	174.00	400	Horizontal	Pass
6**	16144.125	46.32	1.03	54.0	7.68	AV	174.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.200	40.67	-17.09	74.0	33.33	Peak	48.00	300	Vertical	Pass
1**	1499.200	29.77	-17.09	54.0	24.23	AV	48.00	300	Vertical	Pass
2	4343.400	51.00	-3.76	74.0	23.00	Peak	71.00	300	Vertical	Pass
2**	4343.400	41.14	-3.76	54.0	12.86	AV	71.00	300	Vertical	Pass
3	5242.000	107.91	-2.48	--	--	Peak	36.00	200	Vertical	N/A
3**	5242.000	100.18	-2.48	--	--	AV	36.00	200	Vertical	N/A
4	7319.987	50.01	-3.06	74.0	23.99	Peak	244.00	200	Vertical	Pass
4**	7319.987	40.78	-3.06	54.0	13.22	AV	244.00	200	Vertical	Pass
5	12291.151	53.22	1.64	74.0	20.78	Peak	0.00	200	Vertical	Pass
5**	12291.151	44.56	1.64	54.0	9.44	AV	0.00	200	Vertical	Pass
6	15793.162	55.87	2.11	74.0	18.13	Peak	190.00	100	Vertical	Pass
6**	15793.162	46.65	2.11	54.0	7.35	AV	190.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1581.200	38.70	-17.10	74.0	35.30	Peak	298.00	200	Horizontal	Pass
1**	1581.200	29.17	-17.10	54.0	24.83	AV	298.00	200	Horizontal	Pass
2	4379.600	50.95	-3.30	74.0	23.05	Peak	356.00	400	Horizontal	Pass
2**	4379.600	42.40	-3.30	54.0	11.60	AV	356.00	400	Horizontal	Pass
3	5176.600	108.42	-2.52	--	--	Peak	356.00	150	Horizontal	N/A
3**	5176.600	100.78	-2.52	--	--	AV	356.00	150	Horizontal	N/A
4	7457.125	49.86	-3.67	74.0	24.14	Peak	154.00	100	Horizontal	Pass
4**	7457.125	39.91	-3.67	54.0	14.09	AV	154.00	100	Horizontal	Pass
5	12268.438	53.14	1.40	74.0	20.86	Peak	189.00	200	Horizontal	Pass
5**	12268.438	44.08	1.40	54.0	9.92	AV	189.00	200	Horizontal	Pass
6	15801.825	56.20	2.31	74.0	17.80	Peak	15.00	200	Horizontal	Pass
6**	15801.825	46.54	2.31	54.0	7.46	AV	15.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1532.300	40.46	-17.18	74.0	33.54	Peak	103.00	100	Vertical	Pass
1**	1532.300	29.82	-17.18	54.0	24.18	AV	103.00	100	Vertical	Pass
2	4379.600	50.69	-3.30	74.0	23.31	Peak	290.00	300	Vertical	Pass
2**	4379.600	42.95	-3.30	54.0	11.05	AV	290.00	300	Vertical	Pass
3	5175.400	107.77	-2.40	--	--	Peak	39.00	200	Vertical	N/A
3**	5175.400	99.71	-2.40	--	--	AV	39.00	200	Vertical	N/A
4	7333.788	50.11	-3.14	74.0	23.89	Peak	94.00	400	Vertical	Pass
4**	7333.788	40.69	-3.14	54.0	13.31	AV	94.00	400	Vertical	Pass
5	12250.900	53.24	0.96	74.0	20.76	Peak	111.00	150	Vertical	Pass
5**	12250.900	43.51	0.96	54.0	10.49	AV	111.00	150	Vertical	Pass
6	15847.238	56.81	1.35	74.0	17.19	Peak	15.00	300	Vertical	Pass
6**	15847.238	46.99	1.35	54.0	7.01	AV	15.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1583.900	38.80	-17.05	74.0	35.20	Peak	110.00	100	Horizontal	Pass
1**	1583.900	29.78	-17.05	54.0	24.22	AV	110.00	100	Horizontal	Pass
2	4381.000	50.16	-3.49	74.0	23.84	Peak	285.00	300	Horizontal	Pass
2**	4381.000	41.53	-3.49	54.0	12.47	AV	285.00	300	Horizontal	Pass
3	5223.200	108.57	-2.71	--	--	Peak	30.00	150	Horizontal	N/A
3**	5223.200	101.71	-2.71	--	--	AV	30.00	150	Horizontal	N/A
4	7338.675	50.12	-2.91	74.0	23.88	Peak	223.00	200	Horizontal	Pass
4**	7338.675	41.32	-2.91	54.0	12.68	AV	223.00	200	Horizontal	Pass
5	12667.775	53.33	0.99	74.0	20.67	Peak	189.00	100	Horizontal	Pass
5**	12667.775	43.05	0.99	54.0	10.95	AV	189.00	100	Horizontal	Pass
6	15822.562	56.63	1.76	74.0	17.37	Peak	183.00	150	Horizontal	Pass
6**	15822.562	46.29	1.76	54.0	7.71	AV	183.00	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)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1561.000	39.20	-16.84	74.0	34.80	Peak	104.00	300	Vertical	Pass
1**	1561.000	29.75	-16.84	54.0	24.25	AV	104.00	300	Vertical	Pass
2	4366.800	50.79	-3.83	74.0	23.21	Peak	241.00	400	Vertical	Pass
2**	4366.800	41.62	-3.83	54.0	12.38	AV	241.00	400	Vertical	Pass
3	5218.400	108.17	-2.82	--	--	Peak	64.00	200	Vertical	N/A
3**	5218.400	100.49	-2.82	--	--	AV	64.00	200	Vertical	N/A
4	7338.962	50.02	-2.92	74.0	23.98	Peak	297.00	300	Vertical	Pass
4**	7338.962	41.38	-2.92	54.0	12.62	AV	297.00	300	Vertical	Pass
5	12269.300	53.47	1.43	74.0	20.53	Peak	313.00	100	Vertical	Pass
5**	12269.300	43.73	1.43	54.0	10.27	AV	313.00	100	Vertical	Pass
6	15822.300	56.25	1.77	74.0	17.75	Peak	192.00	200	Vertical	Pass
6**	15822.300	46.55	1.77	54.0	7.45	AV	192.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1167.000	41.57	-17.65	74.0	32.43	Peak	277.00	400	Horizontal	Pass
1**	1167.000	28.53	-17.65	54.0	25.47	AV	277.00	400	Horizontal	Pass
2	3772.200	48.62	-5.22	74.0	25.38	Peak	137.00	150	Horizontal	Pass
2**	3772.200	39.88	-5.22	54.0	14.12	AV	137.00	150	Horizontal	Pass
3	4829.800	52.78	-2.53	74.0	21.22	Peak	253.00	100	Horizontal	Pass
3**	4829.800	43.41	-2.53	54.0	10.59	AV	253.00	100	Horizontal	Pass
4	5243.400	108.39	-2.39	--	--	Peak	34.00	300	Horizontal	N/A
4**	5243.400	101.27	-2.39	--	--	AV	34.00	300	Horizontal	N/A
5	11766.750	52.78	1.30	74.0	21.22	Peak	142.00	150	Horizontal	Pass
5**	11766.750	42.52	1.30	54.0	11.48	AV	142.00	150	Horizontal	Pass
6	15809.700	56.18	2.17	74.0	17.82	Peak	213.00	150	Horizontal	Pass
6**	15809.700	47.78	2.17	54.0	6.22	AV	213.00	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)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.400	39.03	-16.98	74.0	34.97	Peak	106.00	100	Vertical	Pass
1**	1503.400	29.60	-16.98	54.0	24.40	AV	106.00	100	Vertical	Pass
2	4386.800	51.57	-3.31	74.0	22.43	Peak	358.00	100	Vertical	Pass
2**	4386.800	41.95	-3.31	54.0	12.05	AV	358.00	100	Vertical	Pass
3	5242.200	107.69	-2.44	--	--	Peak	42.00	100	Vertical	N/A
3**	5242.200	100.69	-2.44	--	--	AV	42.00	100	Vertical	N/A
4	7446.775	49.99	-3.17	74.0	24.01	Peak	61.00	200	Vertical	Pass
4**	7446.775	40.37	-3.17	54.0	13.63	AV	61.00	200	Vertical	Pass
5	12280.800	53.99	1.80	74.0	20.01	Peak	78.00	100	Vertical	Pass
5**	12280.800	44.05	1.80	54.0	9.95	AV	78.00	100	Vertical	Pass
6	15499.950	55.71	1.16	74.0	18.29	Peak	58.00	100	Vertical	Pass
6**	15499.950	46.24	1.16	54.0	7.76	AV	58.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1166.400	39.14	-17.64	74.0	34.86	Peak	274.00	200	Horizontal	Pass
1**	1166.400	28.74	-17.64	54.0	25.26	AV	274.00	200	Horizontal	Pass
2	3749.600	49.72	-5.14	74.0	24.28	Peak	261.00	150	Horizontal	Pass
2**	3749.600	39.72	-5.14	54.0	14.28	AV	261.00	150	Horizontal	Pass
3	4982.600	53.56	-1.63	74.0	20.44	Peak	42.00	200	Horizontal	Pass
3**	4982.600	44.64	-1.63	54.0	9.36	AV	42.00	200	Horizontal	Pass
4	5187.600	106.07	-2.36	--	--	Peak	20.00	400	Horizontal	N/A
4**	5187.600	98.74	-2.36	--	--	AV	20.00	400	Horizontal	N/A
5	11776.238	53.23	1.27	74.0	20.77	Peak	67.00	150	Horizontal	Pass
5**	11776.238	42.90	1.27	54.0	11.10	AV	67.00	150	Horizontal	Pass
6	15801.300	56.80	2.32	74.0	17.20	Peak	212.00	150	Horizontal	Pass
6**	15801.300	47.30	2.32	54.0	6.70	AV	212.00	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)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1518.100	38.93	-17.18	74.0	35.07	Peak	314.00	100	Vertical	Pass
1**	1518.100	28.84	-17.18	54.0	25.16	AV	314.00	100	Vertical	Pass
2	4364.000	50.53	-4.09	74.0	23.47	Peak	237.00	100	Vertical	Pass
2**	4364.000	41.20	-4.09	54.0	12.80	AV	237.00	100	Vertical	Pass
3	5186.600	105.96	-2.39	--	--	Peak	31.00	200	Vertical	N/A
3**	5186.600	98.22	-2.39	--	--	AV	31.00	200	Vertical	N/A
4	7616.112	50.07	-2.55	74.0	23.93	Peak	269.00	200	Vertical	Pass
4**	7616.112	40.11	-2.55	54.0	13.89	AV	269.00	200	Vertical	Pass
5	12235.088	53.46	1.16	74.0	20.54	Peak	102.00	100	Vertical	Pass
5**	12235.088	43.71	1.16	54.0	10.29	AV	102.00	100	Vertical	Pass
6	15665.325	56.65	1.35	74.0	17.35	Peak	0.00	400	Vertical	Pass
6**	15665.325	47.55	1.35	54.0	6.45	AV	0.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1538.800	39.23	-17.17	74.0	34.77	Peak	169.00	200	Horizontal	Pass
1**	1538.800	29.65	-17.17	54.0	24.35	AV	169.00	200	Horizontal	Pass
2	4374.200	50.96	-3.96	74.0	23.04	Peak	20.00	300	Horizontal	Pass
2**	4374.200	41.14	-3.96	54.0	12.86	AV	20.00	300	Horizontal	Pass
3	5231.600	106.60	-2.57	--	--	Peak	33.00	100	Horizontal	N/A
3**	5231.600	98.97	-2.57	--	--	AV	33.00	100	Horizontal	N/A
4	7332.063	50.24	-3.27	74.0	23.76	Peak	275.00	100	Horizontal	Pass
4**	7332.063	40.18	-3.27	54.0	13.82	AV	275.00	100	Horizontal	Pass
5	12522.299	53.18	1.43	74.0	20.82	Peak	39.00	150	Horizontal	Pass
5**	12522.299	43.45	1.43	54.0	10.55	AV	39.00	150	Horizontal	Pass
6	16037.812	56.23	0.78	74.0	17.77	Peak	360.00	200	Horizontal	Pass
6**	16037.812	47.16	0.78	54.0	6.84	AV	360.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.200	40.54	-17.21	74.0	33.46	Peak	299.00	300	Vertical	Pass
1**	1498.200	28.81	-17.21	54.0	25.19	AV	299.00	300	Vertical	Pass
2	4384.000	50.46	-3.64	74.0	23.54	Peak	208.00	200	Vertical	Pass
2**	4384.000	42.24	-3.64	54.0	11.76	AV	208.00	200	Vertical	Pass
3	5232.200	105.46	-2.62	--	--	Peak	34.00	200	Vertical	N/A
3**	5232.200	98.26	-2.62	--	--	AV	34.00	200	Vertical	N/A
4	7436.425	49.95	-3.44	74.0	24.05	Peak	292.00	200	Vertical	Pass
4**	7436.425	40.26	-3.44	54.0	13.74	AV	292.00	200	Vertical	Pass
5	11943.850	53.13	1.57	74.0	20.87	Peak	24.00	200	Vertical	Pass
5**	11943.850	44.31	1.57	54.0	9.69	AV	24.00	200	Vertical	Pass
6	15520.162	56.21	1.38	74.0	17.79	Peak	235.00	400	Vertical	Pass
6**	15520.162	46.65	1.38	54.0	7.35	AV	235.00	400	Vertical	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1444.900	39.30	-17.20	74.0	34.70	Peak	212.00	200	Horizontal	Pass
1**	1444.900	30.20	-17.20	54.0	23.80	AV	212.00	200	Horizontal	Pass
2	4379.400	50.41	-3.32	74.0	23.59	Peak	10.00	200	Horizontal	Pass
2**	4379.400	42.03	-3.32	54.0	11.97	AV	10.00	200	Horizontal	Pass
3	5258.000	108.01	-1.77	--	--	Peak	24.00	100	Horizontal	N/A
3**	5258.000	100.50	-1.77	--	--	AV	24.00	100	Horizontal	N/A
4	7348.738	50.02	-3.74	74.0	23.98	Peak	95.00	300	Horizontal	Pass
4**	7348.738	40.91	-3.74	54.0	13.09	AV	95.00	300	Horizontal	Pass
5	12275.912	53.15	1.65	74.0	20.85	Peak	138.00	100	Horizontal	Pass
5**	12275.912	44.86	1.65	54.0	9.14	AV	138.00	100	Horizontal	Pass
6	15799.463	56.56	2.32	74.0	17.44	Peak	276.00	100	Horizontal	Pass
6**	15799.463	47.00	2.32	54.0	7.00	AV	276.00	100	Horizontal	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1547.300	40.94	-17.29	74.0	33.06	Peak	96.00	300	Vertical	Pass
1**	1547.300	29.97	-17.29	54.0	24.03	AV	96.00	300	Vertical	Pass
2	4387.000	50.47	-3.33	74.0	23.53	Peak	125.00	300	Vertical	Pass
2**	4387.000	42.27	-3.33	54.0	11.73	AV	125.00	300	Vertical	Pass
3	5256.800	107.40	-1.91	--	--	Peak	44.00	100	Vertical	N/A
3**	5256.800	99.58	-1.91	--	--	AV	44.00	100	Vertical	N/A
4	7379.500	49.79	-3.47	74.0	24.21	Peak	27.00	200	Vertical	Pass
4**	7379.500	40.73	-3.47	54.0	13.27	AV	27.00	200	Vertical	Pass
5	12515.687	53.35	1.52	74.0	20.65	Peak	10.00	200	Vertical	Pass
5**	12515.687	43.49	1.52	54.0	10.51	AV	10.00	200	Vertical	Pass
6	15844.088	56.25	1.38	74.0	17.75	Peak	38.00	100	Vertical	Pass
6**	15844.088	47.10	1.38	54.0	6.90	AV	38.00	100	Vertical	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1603.200	38.56	-17.39	74.0	35.44	Peak	193.00	300	Horizontal	Pass
1**	1603.200	28.76	-17.39	54.0	25.24	AV	193.00	300	Horizontal	Pass
2	4385.600	50.77	-3.36	74.0	23.23	Peak	20.00	100	Horizontal	Pass
2**	4385.600	41.69	-3.36	54.0	12.31	AV	20.00	100	Horizontal	Pass
3	5302.600	107.64	-2.72	--	--	Peak	0.00	200	Horizontal	N/A
3**	5302.600	99.93	-2.72	--	--	AV	0.00	200	Horizontal	N/A
4	7449.650	50.02	-3.22	74.0	23.98	Peak	208.00	300	Horizontal	Pass
4**	7449.650	40.31	-3.22	54.0	13.69	AV	208.00	300	Horizontal	Pass
5	10935.588	53.65	-0.02	74.0	20.35	Peak	260.00	200	Horizontal	Pass
5**	10935.588	43.56	-0.02	54.0	10.44	AV	260.00	200	Horizontal	Pass
6	16023.638	56.26	0.63	74.0	17.74	Peak	133.00	300	Horizontal	Pass
6**	16023.638	46.33	0.63	54.0	7.67	AV	133.00	300	Horizontal	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1494.400	39.40	-16.87	74.0	34.60	Peak	60.00	200	Vertical	Pass
1**	1494.400	32.04	-16.87	54.0	21.96	AV	60.00	200	Vertical	Pass
2	4378.000	51.19	-3.46	74.0	22.81	Peak	264.00	300	Vertical	Pass
2**	4378.000	42.49	-3.46	54.0	11.51	AV	264.00	300	Vertical	Pass
3	5302.600	107.77	-2.72	--	--	Peak	44.00	150	Vertical	N/A
3**	5302.600	99.45	-2.72	--	--	AV	44.00	150	Vertical	N/A
4	7337.525	49.80	-2.90	74.0	24.20	Peak	0.00	400	Vertical	Pass
4**	7337.525	40.85	-2.90	54.0	13.15	AV	0.00	400	Vertical	Pass
5	12329.099	53.29	1.42	74.0	20.71	Peak	251.00	100	Vertical	Pass
5**	12329.099	44.38	1.42	54.0	9.62	AV	251.00	100	Vertical	Pass
6	15816.787	57.28	1.99	74.0	16.72	Peak	214.00	100	Vertical	Pass
6**	15816.787	46.83	1.99	54.0	7.17	AV	214.00	100	Vertical	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.900	39.29	-16.83	74.0	34.71	Peak	284.00	100	Horizontal	Pass
1**	1585.900	29.38	-16.83	54.0	24.62	AV	284.00	100	Horizontal	Pass
2	4285.200	50.96	-4.24	74.0	23.04	Peak	0.00	200	Horizontal	Pass
2**	4285.200	41.03	-4.24	54.0	12.97	AV	0.00	200	Horizontal	Pass
3	5325.400	109.57	-2.13	--	--	Peak	0.00	200	Horizontal	N/A
3**	5325.400	101.59	-2.13	--	--	AV	0.00	200	Horizontal	N/A
4	7445.625	49.27	-3.14	74.0	24.73	Peak	360.00	200	Horizontal	Pass
4**	7445.625	41.40	-3.14	54.0	12.60	AV	360.00	200	Horizontal	Pass
5	12284.250	53.98	1.78	74.0	20.02	Peak	254.00	200	Horizontal	Pass
5**	12284.250	44.42	1.78	54.0	9.58	AV	254.00	200	Horizontal	Pass
6	15829.913	56.73	1.50	74.0	17.27	Peak	59.00	300	Horizontal	Pass
6**	15829.913	47.67	1.50	54.0	6.33	AV	59.00	300	Horizontal	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1493.300	41.78	-16.88	74.0	32.22	Peak	42.00	300	Vertical	Pass
1**	1493.300	31.67	-16.88	54.0	22.33	AV	42.00	300	Vertical	Pass
2	4377.600	52.35	-3.51	74.0	21.65	Peak	153.00	200	Vertical	Pass
2**	4377.600	42.00	-3.51	54.0	12.00	AV	153.00	200	Vertical	Pass
3	5314.800	108.73	-2.36	--	--	Peak	44.00	200	Vertical	N/A
3**	5314.800	101.13	-2.36	--	--	AV	44.00	200	Vertical	N/A
4	7509.450	49.48	-3.14	74.0	24.52	Peak	20.00	200	Vertical	Pass
4**	7509.450	39.99	-3.14	54.0	14.01	AV	20.00	200	Vertical	Pass
5	12656.562	53.49	1.01	74.0	20.51	Peak	0.00	100	Vertical	Pass
5**	12656.562	43.42	1.01	54.0	10.58	AV	0.00	100	Vertical	Pass
6	16176.675	56.20	1.38	74.0	17.80	Peak	16.00	200	Vertical	Pass
6**	16176.675	46.35	1.38	54.0	7.65	AV	16.00	200	Vertical	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1491.900	39.72	-16.88	74.0	34.28	Peak	230.00	300	Horizontal	Pass
1**	1491.900	30.29	-16.88	54.0	23.71	AV	230.00	300	Horizontal	Pass
2	4380.800	50.60	-3.46	74.0	23.40	Peak	316.00	400	Horizontal	Pass
2**	4380.800	41.54	-3.46	54.0	12.46	AV	316.00	400	Horizontal	Pass
3	5256.400	107.74	-2.00	--	--	Peak	31.00	200	Horizontal	N/A
3**	5256.400	100.12	-2.00	--	--	AV	31.00	200	Horizontal	N/A
4	7464.888	50.07	-3.45	74.0	23.93	Peak	165.00	200	Horizontal	Pass
4**	7464.888	40.08	-3.45	54.0	13.92	AV	165.00	200	Horizontal	Pass
5	12310.988	53.25	1.38	74.0	20.75	Peak	345.00	150	Horizontal	Pass
5**	12310.988	44.48	1.38	54.0	9.52	AV	345.00	150	Horizontal	Pass
6	16165.913	56.73	1.05	74.0	17.27	Peak	309.00	300	Horizontal	Pass
6**	16165.913	45.40	1.05	54.0	8.60	AV	309.00	300	Horizontal	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.800	39.72	-16.94	74.0	34.28	Peak	75.00	200	Vertical	Pass
1**	1503.800	29.80	-16.94	54.0	24.20	AV	75.00	200	Vertical	Pass
2	4378.200	50.53	-3.44	74.0	23.47	Peak	85.00	100	Vertical	Pass
2**	4378.200	41.46	-3.44	54.0	12.54	AV	85.00	100	Vertical	Pass
3	5261.400	106.21	-2.05	--	--	Peak	70.00	150	Vertical	N/A
3**	5261.400	99.04	-2.05	--	--	AV	70.00	150	Vertical	N/A
4	7665.850	49.79	-2.89	74.0	24.21	Peak	0.00	400	Vertical	Pass
4**	7665.850	40.77	-2.89	54.0	13.23	AV	0.00	400	Vertical	Pass
5	12332.262	53.00	1.38	74.0	21.00	Peak	114.00	200	Vertical	Pass
5**	12332.262	44.54	1.38	54.0	9.46	AV	114.00	200	Vertical	Pass
6	15488.400	56.13	0.93	74.0	17.87	Peak	183.00	400	Vertical	Pass
6**	15488.400	45.70	0.93	54.0	8.30	AV	183.00	400	Vertical	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1596.300	38.85	-17.08	74.0	35.15	Peak	45.00	200	Horizontal	Pass
1**	1596.300	29.14	-17.08	54.0	24.86	AV	45.00	200	Horizontal	Pass
2	4380.000	50.49	-3.32	74.0	23.51	Peak	272.00	200	Horizontal	Pass
2**	4380.000	42.02	-3.32	54.0	11.98	AV	272.00	200	Horizontal	Pass
3	5307.200	107.45	-2.42	--	--	Peak	0.00	200	Horizontal	N/A
3**	5307.200	99.79	-2.42	--	--	AV	0.00	200	Horizontal	N/A
4	7715.300	49.96	-2.54	74.0	24.04	Peak	171.00	200	Horizontal	Pass
4**	7715.300	39.82	-2.54	54.0	14.18	AV	171.00	200	Horizontal	Pass
5	12455.026	53.14	1.88	74.0	20.86	Peak	189.00	150	Horizontal	Pass
5**	12455.026	43.21	1.88	54.0	10.79	AV	189.00	150	Horizontal	Pass
6	15811.013	55.72	2.14	74.0	18.28	Peak	326.00	300	Horizontal	Pass
6**	15811.013	46.78	2.14	54.0	7.22	AV	326.00	300	Horizontal	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.400	39.26	-17.30	74.0	34.74	Peak	210.00	100	Vertical	Pass
1**	1521.400	29.34	-17.30	54.0	24.66	AV	210.00	100	Vertical	Pass
2	4294.800	50.28	-4.62	74.0	23.72	Peak	26.00	400	Vertical	Pass
2**	4294.800	41.13	-4.62	54.0	12.87	AV	26.00	400	Vertical	Pass
3	5304.000	105.93	-2.70	--	--	Peak	40.00	200	Vertical	N/A
3**	5304.000	98.41	-2.70	--	--	AV	40.00	200	Vertical	N/A
4	7335.800	49.79	-3.23	74.0	24.21	Peak	142.00	400	Vertical	Pass
4**	7335.800	40.50	-3.23	54.0	13.50	AV	142.00	400	Vertical	Pass
5	12227.325	53.78	1.31	74.0	20.22	Peak	317.00	200	Vertical	Pass
5**	12227.325	43.46	1.31	54.0	10.54	AV	317.00	200	Vertical	Pass
6	15859.313	55.91	0.96	74.0	18.09	Peak	165.00	300	Vertical	Pass
6**	15859.313	47.08	0.96	54.0	6.92	AV	165.00	300	Vertical	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1436.500	39.84	-17.28	74.0	34.16	Peak	213.00	300	Horizontal	Pass
1**	1436.500	29.28	-17.28	54.0	24.72	AV	213.00	300	Horizontal	Pass
2	4003.800	50.68	-4.04	74.0	23.32	Peak	145.00	100	Horizontal	Pass
2**	4003.800	41.73	-4.04	54.0	12.27	AV	145.00	100	Horizontal	Pass
3	5323.200	108.87	-1.79	--	--	Peak	0.00	150	Horizontal	N/A
3**	5323.200	101.95	-1.79	--	--	AV	0.00	150	Horizontal	N/A
4	7446.488	50.34	-3.15	74.0	23.66	Peak	330.00	300	Horizontal	Pass
4**	7446.488	41.03	-3.15	54.0	12.97	AV	330.00	300	Horizontal	Pass
5	12280.513	52.92	1.80	74.0	21.08	Peak	120.00	150	Horizontal	Pass
5**	12280.513	44.42	1.80	54.0	9.58	AV	120.00	150	Horizontal	Pass
6	15668.213	56.05	1.40	74.0	17.95	Peak	223.00	400	Horizontal	Pass
6**	15668.213	46.71	1.40	54.0	7.29	AV	223.00	400	Horizontal	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1489.800	41.06	-16.72	74.0	32.94	Peak	179.00	400	Vertical	Pass
1**	1489.800	29.96	-16.72	54.0	24.04	AV	179.00	400	Vertical	Pass
2	4311.800	50.22	-4.06	74.0	23.78	Peak	285.00	300	Vertical	Pass
2**	4311.800	41.36	-4.06	54.0	12.64	AV	285.00	300	Vertical	Pass
3	5323.600	107.03	-1.84	--	--	Peak	77.00	150	Vertical	N/A
3**	5323.600	99.30	-1.84	--	--	AV	77.00	150	Vertical	N/A
4	7339.250	50.38	-2.93	74.0	23.62	Peak	169.00	400	Vertical	Pass
4**	7339.250	41.06	-2.93	54.0	12.94	AV	169.00	400	Vertical	Pass
5	12452.150	52.98	1.89	74.0	21.02	Peak	265.00	200	Vertical	Pass
5**	12452.150	44.42	1.89	54.0	9.58	AV	265.00	200	Vertical	Pass
6	15813.900	56.28	2.08	74.0	17.72	Peak	203.00	100	Vertical	Pass
6**	15813.900	47.36	2.08	54.0	6.64	AV	203.00	100	Vertical	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.800	38.78	-17.34	74.0	35.22	Peak	323.00	200	Horizontal	Pass
1**	1522.800	29.23	-17.34	54.0	24.77	AV	323.00	200	Horizontal	Pass
2	4385.200	51.19	-3.43	74.0	22.81	Peak	222.00	400	Horizontal	Pass
2**	4385.200	42.17	-3.43	54.0	11.83	AV	222.00	400	Horizontal	Pass
3	5274.800	105.86	-2.59	--	--	Peak	360.00	100	Horizontal	N/A
3**	5274.800	98.61	-2.59	--	--	AV	360.00	100	Horizontal	N/A
4	7340.687	50.76	-3.04	74.0	23.24	Peak	190.00	100	Horizontal	Pass
4**	7340.687	41.11	-3.04	54.0	12.89	AV	190.00	100	Horizontal	Pass
5	12549.037	53.27	1.44	74.0	20.73	Peak	39.00	150	Horizontal	Pass
5**	12549.037	43.35	1.44	54.0	10.65	AV	39.00	150	Horizontal	Pass
6	16169.326	56.06	1.14	74.0	17.94	Peak	88.00	300	Horizontal	Pass
6**	16169.326	46.38	1.14	54.0	7.62	AV	88.00	300	Horizontal	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.000	39.80	-16.84	74.0	34.20	Peak	49.00	400	Vertical	Pass
1**	1496.000	28.82	-16.84	54.0	25.18	AV	49.00	400	Vertical	Pass
2	4365.800	50.52	-3.88	74.0	23.48	Peak	201.00	200	Vertical	Pass
2**	4365.800	42.14	-3.88	54.0	11.86	AV	201.00	200	Vertical	Pass
3	5278.600	103.97	-2.41	--	--	Peak	42.00	150	Vertical	N/A
3**	5278.600	96.35	-2.41	--	--	AV	42.00	150	Vertical	N/A
4	7331.200	49.89	-3.38	74.0	24.11	Peak	0.00	300	Vertical	Pass
4**	7331.200	40.09	-3.38	54.0	13.91	AV	0.00	300	Vertical	Pass
5	11661.237	53.52	0.13	74.0	20.48	Peak	151.00	200	Vertical	Pass
5**	11661.237	43.38	0.13	54.0	10.62	AV	151.00	200	Vertical	Pass
6	15852.225	56.25	1.27	74.0	17.75	Peak	34.00	100	Vertical	Pass
6**	15852.225	46.75	1.27	54.0	7.25	AV	34.00	100	Vertical	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1485.900	39.39	-16.68	74.0	34.61	Peak	33.00	100	Horizontal	Pass
1**	1485.900	30.16	-16.68	54.0	23.84	AV	33.00	100	Horizontal	Pass
2	4392.800	50.70	-3.61	74.0	23.30	Peak	9.00	400	Horizontal	Pass
2**	4392.800	41.04	-3.61	54.0	12.96	AV	9.00	400	Horizontal	Pass
3	5313.400	106.94	-2.34	--	--	Peak	20.00	100	Horizontal	N/A
3**	5313.400	99.36	-2.34	--	--	AV	20.00	100	Horizontal	N/A
4	7671.888	49.89	-2.45	74.0	24.11	Peak	96.00	300	Horizontal	Pass
4**	7671.888	40.70	-2.45	54.0	13.30	AV	96.00	300	Horizontal	Pass
5	12312.424	53.01	1.39	74.0	20.99	Peak	139.00	100	Horizontal	Pass
5**	12312.424	44.44	1.39	54.0	9.56	AV	139.00	100	Horizontal	Pass
6	16089.787	56.32	1.44	74.0	17.68	Peak	360.00	200	Horizontal	Pass
6**	16089.787	46.88	1.44	54.0	7.12	AV	360.00	200	Horizontal	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.900	41.90	-16.83	74.0	32.10	Peak	95.00	300	Vertical	Pass
1**	1585.900	29.63	-16.83	54.0	24.37	AV	95.00	300	Vertical	Pass
2	4198.200	50.43	-4.73	74.0	23.57	Peak	254.00	100	Vertical	Pass
2**	4198.200	42.14	-4.73	54.0	11.86	AV	254.00	100	Vertical	Pass
3	5318.000	103.80	-2.47	--	--	Peak	81.00	100	Vertical	N/A
3**	5318.000	96.72	-2.47	--	--	AV	81.00	100	Vertical	N/A
4	7339.825	49.86	-2.95	74.0	24.14	Peak	137.00	300	Vertical	Pass
4**	7339.825	41.78	-2.95	54.0	12.22	AV	137.00	300	Vertical	Pass
5	12320.474	53.51	1.42	74.0	20.49	Peak	161.00	100	Vertical	Pass
5**	12320.474	44.03	1.42	54.0	9.97	AV	161.00	100	Vertical	Pass
6	15407.025	56.09	0.77	74.0	17.91	Peak	173.00	400	Vertical	Pass
6**	15407.025	45.85	0.77	54.0	8.15	AV	173.00	400	Vertical	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1486.400	39.69	-16.72	74.0	34.31	Peak	317.00	100	Horizontal	Pass
1**	1486.400	30.45	-16.72	54.0	23.55	AV	317.00	100	Horizontal	Pass
2	4376.600	50.66	-3.85	74.0	23.34	Peak	32.00	100	Horizontal	Pass
2**	4376.600	41.40	-3.85	54.0	12.60	AV	32.00	100	Horizontal	Pass
3	5496.800	111.09	-1.57	--	--	Peak	0.00	200	Horizontal	N/A
3**	5496.800	103.42	-1.57	--	--	AV	0.00	200	Horizontal	N/A
4	7333.500	50.59	-3.12	74.0	23.41	Peak	314.00	200	Horizontal	Pass
4**	7333.500	43.11	-3.12	54.0	10.89	AV	314.00	200	Horizontal	Pass
5	12266.424	53.10	1.34	74.0	20.90	Peak	339.00	200	Horizontal	Pass
5**	12266.424	43.98	1.34	54.0	10.02	AV	339.00	200	Horizontal	Pass
6	15800.513	56.28	2.33	74.0	17.72	Peak	182.00	400	Horizontal	Pass
6**	15800.513	47.48	2.33	54.0	6.52	AV	182.00	400	Horizontal	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.000	39.63	-16.94	74.0	34.37	Peak	46.00	400	Vertical	Pass
1**	1500.000	29.70	-16.94	54.0	24.30	AV	46.00	400	Vertical	Pass
2	4372.600	50.50	-3.98	74.0	23.50	Peak	317.00	400	Vertical	Pass
2**	4372.600	41.54	-3.98	54.0	12.46	AV	317.00	400	Vertical	Pass
3	5502.800	110.78	-1.37	--	--	Peak	37.00	150	Vertical	N/A
3**	5502.800	103.30	-1.37	--	--	AV	37.00	150	Vertical	N/A
4	7333.212	50.22	-3.14	74.0	23.78	Peak	342.00	200	Vertical	Pass
4**	7333.212	44.02	-3.14	54.0	9.98	AV	342.00	200	Vertical	Pass
5	12284.537	53.32	1.78	74.0	20.68	Peak	226.00	100	Vertical	Pass
5**	12284.537	44.15	1.78	54.0	9.85	AV	226.00	100	Vertical	Pass
6	16082.175	56.41	1.59	74.0	17.59	Peak	350.00	100	Vertical	Pass
6**	16082.175	47.04	1.59	54.0	6.96	AV	350.00	100	Vertical	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1516.000	38.89	-17.18	74.0	35.11	Peak	343.00	100	Horizontal	Pass
1**	1516.000	29.23	-17.18	54.0	24.77	AV	343.00	100	Horizontal	Pass
2	4388.800	50.53	-3.38	74.0	23.47	Peak	109.00	100	Horizontal	Pass
2**	4388.800	40.71	-3.38	54.0	13.29	AV	109.00	100	Horizontal	Pass
3	5578.400	110.21	-1.60	--	--	Peak	360.00	200	Horizontal	N/A
3**	5578.400	103.78	-1.60	--	--	AV	360.00	200	Horizontal	N/A
4	7634.225	50.82	-2.95	74.0	23.18	Peak	8.00	400	Horizontal	Pass
4**	7634.225	41.13	-2.95	54.0	12.87	AV	8.00	400	Horizontal	Pass
5	11953.912	53.77	1.22	74.0	20.23	Peak	319.00	150	Horizontal	Pass
5**	11953.912	43.91	1.22	54.0	10.09	AV	319.00	150	Horizontal	Pass
6	16083.225	56.00	1.57	74.0	18.00	Peak	258.00	300	Horizontal	Pass
6**	16083.225	46.97	1.57	54.0	7.03	AV	258.00	300	Horizontal	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1576.600	39.56	-17.36	74.0	34.44	Peak	16.00	100	Vertical	Pass
1**	1576.600	30.05	-17.36	54.0	23.95	AV	16.00	100	Vertical	Pass
2	4380.400	50.63	-3.39	74.0	23.37	Peak	360.00	200	Vertical	Pass
2**	4380.400	41.85	-3.39	54.0	12.15	AV	360.00	200	Vertical	Pass
3	5578.600	109.93	-1.61	--	--	Peak	37.00	200	Vertical	N/A
3**	5578.600	103.17	-1.61	--	--	AV	37.00	200	Vertical	N/A
4	7616.688	49.98	-2.60	74.0	24.02	Peak	328.00	300	Vertical	Pass
4**	7616.688	41.51	-2.60	54.0	12.49	AV	328.00	300	Vertical	Pass
5	11628.463	53.53	-0.18	74.0	20.47	Peak	0.00	150	Vertical	Pass
5**	11628.463	43.62	-0.18	54.0	10.38	AV	0.00	150	Vertical	Pass
6	16015.762	56.24	0.49	74.0	17.76	Peak	297.00	300	Vertical	Pass
6**	16015.762	46.36	0.49	54.0	7.64	AV	297.00	300	Vertical	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1488.700	39.00	-16.78	74.0	35.00	Peak	72.00	100	Horizontal	Pass
1**	1488.700	29.15	-16.78	54.0	24.85	AV	72.00	100	Horizontal	Pass
2	4373.800	50.44	-3.88	74.0	23.56	Peak	0.00	400	Horizontal	Pass
2**	4373.800	41.28	-3.88	54.0	12.72	AV	0.00	400	Horizontal	Pass
3	5696.800	107.08	-1.19	--	--	Peak	353.00	150	Horizontal	N/A
3**	5696.800	100.61	-1.19	--	--	AV	353.00	150	Horizontal	N/A
4	7320.850	49.72	-3.12	74.0	24.28	Peak	239.00	300	Horizontal	Pass
4**	7320.850	40.22	-3.12	54.0	13.78	AV	239.00	300	Horizontal	Pass
5	12263.550	53.22	1.23	74.0	20.78	Peak	151.00	150	Horizontal	Pass
5**	12263.550	43.46	1.23	54.0	10.54	AV	151.00	150	Horizontal	Pass
6	15510.187	55.92	1.44	74.0	18.08	Peak	226.00	200	Horizontal	Pass
6**	15510.187	46.59	1.44	54.0	7.41	AV	226.00	200	Horizontal	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1502.700	39.09	-17.05	74.0	34.91	Peak	127.00	100	Vertical	Pass
1**	1502.700	29.13	-17.05	54.0	24.87	AV	127.00	100	Vertical	Pass
2	4380.800	50.06	-3.46	74.0	23.94	Peak	238.00	300	Vertical	Pass
2**	4380.800	41.65	-3.46	54.0	12.35	AV	238.00	300	Vertical	Pass
3	5705.800	108.33	-1.78	--	--	Peak	40.00	100	Vertical	N/A
3**	5705.800	100.24	-1.78	--	--	AV	40.00	100	Vertical	N/A
4	7341.837	49.89	-3.15	74.0	24.11	Peak	343.00	100	Vertical	Pass
4**	7341.837	41.14	-3.15	54.0	12.86	AV	343.00	100	Vertical	Pass
5	12298.338	54.17	1.51	74.0	19.83	Peak	72.00	150	Vertical	Pass
5**	12298.338	44.22	1.51	54.0	9.78	AV	72.00	150	Vertical	Pass
6	16093.200	56.07	1.36	74.0	17.93	Peak	316.00	300	Vertical	Pass
6**	16093.200	46.56	1.36	54.0	7.44	AV	316.00	300	Vertical	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1507.900	38.81	-17.00	74.0	35.19	Peak	0.00	300	Horizontal	Pass
1**	1507.900	29.80	-17.00	54.0	24.20	AV	0.00	300	Horizontal	Pass
2	4379.400	50.48	-3.32	74.0	23.52	Peak	98.00	400	Horizontal	Pass
2**	4379.400	41.62	-3.32	54.0	12.38	AV	98.00	400	Horizontal	Pass
3	5497.400	111.79	-1.56	--	--	Peak	0.00	200	Horizontal	N/A
3**	5497.400	103.42	-1.56	--	--	AV	0.00	200	Horizontal	N/A
4	7343.275	49.96	-3.35	74.0	24.04	Peak	345.00	100	Horizontal	Pass
4**	7343.275	41.06	-3.35	54.0	12.94	AV	345.00	100	Horizontal	Pass
5	12321.050	53.23	1.42	74.0	20.77	Peak	91.00	150	Horizontal	Pass
5**	12321.050	44.61	1.42	54.0	9.39	AV	91.00	150	Horizontal	Pass
6	15812.588	56.11	2.11	74.0	17.89	Peak	23.00	100	Horizontal	Pass
6**	15812.588	46.38	2.11	54.0	7.62	AV	23.00	100	Horizontal	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1625.400	39.94	-17.14	74.0	34.06	Peak	218.00	300	Vertical	Pass
1**	1625.400	30.22	-17.14	54.0	23.78	AV	218.00	300	Vertical	Pass
2	3991.400	50.82	-4.58	74.0	23.18	Peak	360.00	300	Vertical	Pass
2**	3991.400	39.52	-4.58	54.0	14.48	AV	360.00	300	Vertical	Pass
3	5503.600	110.71	-1.36	--	--	Peak	38.00	200	Vertical	N/A
3**	5503.600	102.50	-1.36	--	--	AV	38.00	200	Vertical	N/A
4	7507.725	50.67	-3.10	74.0	23.33	Peak	195.00	400	Vertical	Pass
4**	7507.725	40.39	-3.10	54.0	13.61	AV	195.00	400	Vertical	Pass
5	11970.300	53.75	0.80	74.0	20.25	Peak	77.00	200	Vertical	Pass
5**	11970.300	43.93	0.80	54.0	10.07	AV	77.00	200	Vertical	Pass
6	15791.325	56.21	2.05	74.0	17.79	Peak	104.00	100	Vertical	Pass
6**	15791.325	46.92	2.05	54.0	7.08	AV	104.00	100	Vertical	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1501.500	38.90	-16.95	74.0	35.10	Peak	249.00	300	Horizontal	Pass
1**	1501.500	30.08	-16.95	54.0	23.92	AV	249.00	300	Horizontal	Pass
2	4368.400	50.68	-3.86	74.0	23.32	Peak	289.00	100	Horizontal	Pass
2**	4368.400	41.60	-3.86	54.0	12.40	AV	289.00	100	Horizontal	Pass
3	5577.400	110.15	-1.86	--	--	Peak	360.00	100	Horizontal	N/A
3**	5577.400	102.71	-1.86	--	--	AV	360.00	100	Horizontal	N/A
4	7684.825	49.82	-2.39	74.0	24.18	Peak	311.00	100	Horizontal	Pass
4**	7684.825	40.54	-2.39	54.0	13.46	AV	311.00	100	Horizontal	Pass
5	12451.863	53.59	1.89	74.0	20.41	Peak	0.00	200	Horizontal	Pass
5**	12451.863	44.53	1.89	54.0	9.47	AV	0.00	200	Horizontal	Pass
6	15803.138	56.58	2.29	74.0	17.42	Peak	229.00	200	Horizontal	Pass
6**	15803.138	46.89	2.29	54.0	7.11	AV	229.00	200	Horizontal	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.000	39.57	-16.84	74.0	34.43	Peak	122.00	200	Vertical	Pass
1**	1496.000	30.00	-16.84	54.0	24.00	AV	122.00	200	Vertical	Pass
2	4386.000	50.79	-3.30	74.0	23.21	Peak	63.00	400	Vertical	Pass
2**	4386.000	41.98	-3.30	54.0	12.02	AV	63.00	400	Vertical	Pass
3	5582.400	110.04	-1.74	--	--	Peak	41.00	100	Vertical	N/A
3**	5582.400	101.79	-1.74	--	--	AV	41.00	100	Vertical	N/A
4	7440.450	50.01	-3.49	74.0	23.99	Peak	0.00	400	Vertical	Pass
4**	7440.450	42.53	-3.49	54.0	11.47	AV	0.00	400	Vertical	Pass
5	11916.826	53.52	1.49	74.0	20.48	Peak	179.00	200	Vertical	Pass
5**	11916.826	43.89	1.49	54.0	10.11	AV	179.00	200	Vertical	Pass
6	16042.537	56.37	0.77	74.0	17.63	Peak	212.00	200	Vertical	Pass
6**	16042.537	47.34	0.77	54.0	6.66	AV	212.00	200	Vertical	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1478.600	39.31	-17.19	74.0	34.69	Peak	204.00	200	Horizontal	Pass
1**	1478.600	29.17	-17.19	54.0	24.83	AV	204.00	200	Horizontal	Pass
2	4360.600	50.60	-4.00	74.0	23.40	Peak	217.00	400	Horizontal	Pass
2**	4360.600	41.61	-4.00	54.0	12.39	AV	217.00	400	Horizontal	Pass
3	5698.000	107.29	-1.11	--	--	Peak	354.00	150	Horizontal	N/A
3**	5698.000	99.78	-1.11	--	--	AV	354.00	150	Horizontal	N/A
4	7711.850	49.86	-2.23	74.0	24.14	Peak	181.00	300	Horizontal	Pass
4**	7711.850	40.06	-2.23	54.0	13.94	AV	181.00	300	Horizontal	Pass
5	12282.237	53.13	1.79	74.0	20.87	Peak	0.00	200	Horizontal	Pass
5**	12282.237	43.91	1.79	54.0	10.09	AV	0.00	200	Horizontal	Pass
6	15811.276	55.95	2.14	74.0	18.05	Peak	17.00	300	Horizontal	Pass
6**	15811.276	46.34	2.14	54.0	7.66	AV	17.00	300	Horizontal	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1528.100	39.05	-17.01	74.0	34.95	Peak	87.00	300	Vertical	Pass
1**	1528.100	29.25	-17.01	54.0	24.75	AV	87.00	300	Vertical	Pass
2	4377.600	51.03	-3.51	74.0	22.97	Peak	165.00	100	Vertical	Pass
2**	4377.600	41.76	-3.51	54.0	12.24	AV	165.00	100	Vertical	Pass
3	5699.400	108.27	-0.95	--	--	Peak	44.00	150	Vertical	N/A
3**	5699.400	100.73	-0.95	--	--	AV	44.00	150	Vertical	N/A
4	7503.987	49.66	-3.05	74.0	24.34	Peak	0.00	200	Vertical	Pass
4**	7503.987	40.60	-3.05	54.0	13.40	AV	0.00	200	Vertical	Pass
5	12399.537	53.18	1.58	74.0	20.82	Peak	176.00	100	Vertical	Pass
5**	12399.537	43.38	1.58	54.0	10.62	AV	176.00	100	Vertical	Pass
6	16043.325	55.78	0.76	74.0	18.22	Peak	0.00	400	Vertical	Pass
6**	16043.325	46.30	0.76	54.0	7.70	AV	0.00	400	Vertical	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1618.700	39.21	-17.41	74.0	34.79	Peak	139.00	100	Horizontal	Pass
1**	1618.700	29.63	-17.41	54.0	24.37	AV	139.00	100	Horizontal	Pass
2	4367.600	51.01	-3.84	74.0	22.99	Peak	200.00	200	Horizontal	Pass
2**	4367.600	41.19	-3.84	54.0	12.81	AV	200.00	200	Horizontal	Pass
3	5506.600	109.14	-0.99	--	--	Peak	360.00	150	Horizontal	N/A
3**	5506.600	100.96	-0.99	--	--	AV	360.00	150	Horizontal	N/A
4	7345.575	50.52	-3.51	74.0	23.48	Peak	360.00	200	Horizontal	Pass
4**	7345.575	40.66	-3.51	54.0	13.34	AV	360.00	200	Horizontal	Pass
5	12280.800	53.73	1.80	74.0	20.27	Peak	310.00	200	Horizontal	Pass
5**	12280.800	44.70	1.80	54.0	9.30	AV	310.00	200	Horizontal	Pass
6	16042.537	56.70	0.77	74.0	17.30	Peak	29.00	300	Horizontal	Pass
6**	16042.537	46.38	0.77	54.0	7.62	AV	29.00	300	Horizontal	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1562.300	40.38	-16.79	74.0	33.62	Peak	112.00	200	Vertical	Pass
1**	1562.300	30.01	-16.79	54.0	23.99	AV	112.00	200	Vertical	Pass
2	4390.800	50.33	-3.35	74.0	23.67	Peak	360.00	400	Vertical	Pass
2**	4390.800	42.10	-3.35	54.0	11.90	AV	360.00	400	Vertical	Pass
3	5508.000	109.06	-0.94	--	--	Peak	20.00	150	Vertical	N/A
3**	5508.000	100.78	-0.94	--	--	AV	20.00	150	Vertical	N/A
4	7615.825	50.35	-2.59	74.0	23.65	Peak	126.00	200	Vertical	Pass
4**	7615.825	40.89	-2.59	54.0	13.11	AV	126.00	200	Vertical	Pass
5	12424.263	53.56	1.43	74.0	20.44	Peak	324.00	200	Vertical	Pass
5**	12424.263	43.60	1.43	54.0	10.40	AV	324.00	200	Vertical	Pass
6	15790.537	56.27	2.03	74.0	17.73	Peak	322.00	150	Vertical	Pass
6**	15790.537	46.43	2.03	54.0	7.57	AV	322.00	150	Vertical	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1617.800	39.15	-17.19	74.0	34.85	Peak	149.00	400	Horizontal	Pass
1**	1617.800	28.85	-17.19	54.0	25.15	AV	149.00	400	Horizontal	Pass
2	4369.600	50.86	-3.97	74.0	23.14	Peak	107.00	300	Horizontal	Pass
2**	4369.600	41.63	-3.97	54.0	12.37	AV	107.00	300	Horizontal	Pass
3	5595.200	107.75	-2.02	--	--	Peak	360.00	200	Horizontal	N/A
3**	5595.200	100.83	-2.02	--	--	AV	360.00	200	Horizontal	N/A
4	7673.900	50.28	-2.34	74.0	23.72	Peak	35.00	100	Horizontal	Pass
4**	7673.900	40.49	-2.34	54.0	13.51	AV	35.00	100	Horizontal	Pass
5	12437.775	53.56	1.74	74.0	20.44	Peak	0.00	200	Horizontal	Pass
5**	12437.775	44.20	1.74	54.0	9.80	AV	0.00	200	Horizontal	Pass
6	16090.838	56.22	1.42	74.0	17.78	Peak	106.00	100	Horizontal	Pass
6**	16090.838	46.63	1.42	54.0	7.37	AV	106.00	100	Horizontal	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1556.900	39.83	-17.06	74.0	34.17	Peak	224.00	100	Vertical	Pass
1**	1556.900	30.16	-17.06	54.0	23.84	AV	224.00	100	Vertical	Pass
2	4378.000	50.79	-3.46	74.0	23.21	Peak	269.00	300	Vertical	Pass
2**	4378.000	41.71	-3.46	54.0	12.29	AV	269.00	300	Vertical	Pass
3	5592.200	107.26	-2.21	--	--	Peak	30.00	100	Vertical	N/A
3**	5592.200	98.90	-2.21	--	--	AV	30.00	100	Vertical	N/A
4	7277.725	50.96	-3.22	74.0	23.04	Peak	322.00	400	Vertical	Pass
4**	7277.725	40.88	-3.22	54.0	13.12	AV	322.00	400	Vertical	Pass
5	12274.187	52.99	1.59	74.0	21.01	Peak	134.00	150	Vertical	Pass
5**	12274.187	44.60	1.59	54.0	9.40	AV	134.00	150	Vertical	Pass
6	16151.474	57.11	0.97	74.0	16.89	Peak	297.00	200	Vertical	Pass
6**	16151.474	45.93	0.97	54.0	8.07	AV	297.00	200	Vertical	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1489.800	38.63	-16.72	74.0	35.37	Peak	326.00	100	Horizontal	Pass
1**	1489.800	29.93	-16.72	54.0	24.07	AV	326.00	100	Horizontal	Pass
2	4280.000	50.33	-4.55	74.0	23.67	Peak	146.00	200	Horizontal	Pass
2**	4280.000	40.24	-4.55	54.0	13.76	AV	146.00	200	Horizontal	Pass
3	5657.000	105.98	-2.16	--	--	Peak	0.00	200	Horizontal	N/A
3**	5657.000	97.25	-2.16	--	--	AV	0.00	200	Horizontal	N/A
4	7340.975	49.89	-3.07	74.0	24.11	Peak	360.00	100	Horizontal	Pass
4**	7340.975	41.01	-3.07	54.0	12.99	AV	360.00	100	Horizontal	Pass
5	12414.488	53.66	1.42	74.0	20.34	Peak	88.00	150	Horizontal	Pass
5**	12414.488	43.81	1.42	54.0	10.19	AV	88.00	150	Horizontal	Pass
6	16045.950	56.48	0.74	74.0	17.52	Peak	9.00	400	Horizontal	Pass
6**	16045.950	46.28	0.74	54.0	7.72	AV	9.00	400	Horizontal	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1536.400	39.21	-16.92	74.0	34.79	Peak	353.00	300	Vertical	Pass
1**	1536.400	30.01	-16.92	54.0	23.99	AV	353.00	300	Vertical	Pass
2	4359.800	50.82	-4.06	74.0	23.18	Peak	19.00	400	Vertical	Pass
2**	4359.800	40.90	-4.06	54.0	13.10	AV	19.00	400	Vertical	Pass
3	5673.200	106.81	-2.18	--	--	Peak	31.00	150	Vertical	N/A
3**	5673.200	98.36	-2.18	--	--	AV	31.00	150	Vertical	N/A
4	7446.775	50.00	-3.17	74.0	24.00	Peak	109.00	200	Vertical	Pass
4**	7446.775	40.62	-3.17	54.0	13.38	AV	109.00	200	Vertical	Pass
5	11504.838	53.77	-0.07	74.0	20.23	Peak	0.00	100	Vertical	Pass
5**	11504.838	43.86	-0.07	54.0	10.14	AV	0.00	100	Vertical	Pass
6	16154.362	55.91	0.94	74.0	18.09	Peak	179.00	300	Vertical	Pass
6**	16154.362	46.44	0.94	54.0	7.56	AV	179.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1604.400	39.06	-17.45	74.0	34.94	Peak	37.00	200	Horizontal	Pass
1**	1604.400	29.67	-17.45	54.0	24.33	AV	37.00	200	Horizontal	Pass
2	4343.800	50.55	-3.69	74.0	23.45	Peak	58.00	300	Horizontal	Pass
2**	4343.800	41.65	-3.69	54.0	12.35	AV	58.00	300	Horizontal	Pass
3	5748.000	105.88	-2.21	--	--	Peak	4.00	100	Horizontal	N/A
3**	5748.000	98.45	-2.21	--	--	AV	4.00	100	Horizontal	N/A
4	7340.975	49.87	-3.07	74.0	24.13	Peak	360.00	100	Horizontal	Pass
4**	7340.975	40.62	-3.07	54.0	13.38	AV	360.00	100	Horizontal	Pass
5	12272.463	52.99	1.53	74.0	21.01	Peak	15.00	150	Horizontal	Pass
5**	12272.463	43.78	1.53	54.0	10.22	AV	15.00	150	Horizontal	Pass
6	15844.350	56.64	1.38	74.0	17.36	Peak	0.00	300	Horizontal	Pass
6**	15844.350	46.82	1.38	54.0	7.18	AV	0.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.300	40.14	-17.23	74.0	33.86	Peak	54.00	200	Vertical	Pass
1**	1498.300	29.52	-17.23	54.0	24.48	AV	54.00	200	Vertical	Pass
2	4266.600	50.51	-4.66	74.0	23.49	Peak	120.00	100	Vertical	Pass
2**	4266.600	41.09	-4.66	54.0	12.91	AV	120.00	100	Vertical	Pass
3	5748.200	108.47	-2.21	--	--	Peak	30.00	100	Vertical	N/A
3**	5748.200	100.89	-2.21	--	--	AV	30.00	100	Vertical	N/A
4	7489.325	49.63	-3.50	74.0	24.37	Peak	104.00	400	Vertical	Pass
4**	7489.325	39.86	-3.50	54.0	14.14	AV	104.00	400	Vertical	Pass
5	12414.488	53.38	1.42	74.0	20.62	Peak	354.00	200	Vertical	Pass
5**	12414.488	44.03	1.42	54.0	9.97	AV	354.00	200	Vertical	Pass
6	16152.787	55.60	0.96	74.0	18.40	Peak	212.00	100	Vertical	Pass
6**	16152.787	47.01	0.96	54.0	6.99	AV	212.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.500	38.92	-16.78	74.0	35.08	Peak	111.00	200	Horizontal	Pass
1**	1585.500	29.62	-16.78	54.0	24.38	AV	111.00	200	Horizontal	Pass
2	4385.800	50.42	-3.33	74.0	23.58	Peak	293.00	400	Horizontal	Pass
2**	4385.800	41.44	-3.33	54.0	12.56	AV	293.00	400	Horizontal	Pass
3	5782.200	106.35	-1.33	--	--	Peak	350.00	200	Horizontal	N/A
3**	5782.200	98.44	-1.33	--	--	AV	350.00	200	Horizontal	N/A
4	7506.575	49.86	-3.06	74.0	24.14	Peak	96.00	100	Horizontal	Pass
4**	7506.575	40.72	-3.06	54.0	13.28	AV	96.00	100	Horizontal	Pass
5	12343.187	53.52	1.28	74.0	20.48	Peak	229.00	200	Horizontal	Pass
5**	12343.187	43.56	1.28	54.0	10.44	AV	229.00	200	Horizontal	Pass
6	15843.826	57.68	1.39	74.0	16.32	Peak	15.00	100	Horizontal	Pass
6**	15843.826	46.81	1.39	54.0	7.19	AV	15.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1567.400	39.21	-17.13	74.0	34.79	Peak	112.00	300	Vertical	Pass
1**	1567.400	29.08	-17.13	54.0	24.92	AV	112.00	300	Vertical	Pass
2	4286.800	51.26	-4.40	74.0	22.74	Peak	338.00	300	Vertical	Pass
2**	4286.800	40.91	-4.40	54.0	13.09	AV	338.00	300	Vertical	Pass
3	5781.400	108.68	-1.49	--	--	Peak	26.00	100	Vertical	N/A
3**	5781.400	101.48	-1.49	--	--	AV	26.00	100	Vertical	N/A
4	7443.900	50.22	-3.26	74.0	23.78	Peak	287.00	400	Vertical	Pass
4**	7443.900	41.19	-3.26	54.0	12.81	AV	287.00	400	Vertical	Pass
5	12274.763	53.20	1.61	74.0	20.80	Peak	37.00	100	Vertical	Pass
5**	12274.763	45.32	1.61	54.0	8.68	AV	37.00	100	Vertical	Pass
6	15825.713	56.74	1.62	74.0	17.26	Peak	46.00	400	Vertical	Pass
6**	15825.713	46.89	1.62	54.0	7.11	AV	46.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1586.600	39.18	-16.92	74.0	34.82	Peak	0.00	300	Horizontal	Pass
1**	1586.600	29.48	-16.92	54.0	24.52	AV	0.00	300	Horizontal	Pass
2	4347.000	50.75	-4.28	74.0	23.25	Peak	333.00	200	Horizontal	Pass
2**	4347.000	41.03	-4.28	54.0	12.97	AV	333.00	200	Horizontal	Pass
3	5827.800	106.40	-1.91	--	--	Peak	4.00	150	Horizontal	N/A
3**	5827.800	99.15	-1.91	--	--	AV	4.00	150	Horizontal	N/A
4	7451.950	50.50	-3.16	74.0	23.50	Peak	207.00	200	Horizontal	Pass
4**	7451.950	40.90	-3.16	54.0	13.10	AV	207.00	200	Horizontal	Pass
5	12621.487	53.07	1.73	74.0	20.93	Peak	188.00	100	Horizontal	Pass
5**	12621.487	44.12	1.73	54.0	9.88	AV	188.00	100	Horizontal	Pass
6	15786.863	55.74	1.88	74.0	18.26	Peak	321.00	200	Horizontal	Pass
6**	15786.863	47.03	1.88	54.0	6.97	AV	321.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1557.800	39.73	-17.00	74.0	34.27	Peak	100.00	100	Vertical	Pass
1**	1557.800	29.58	-17.00	54.0	24.42	AV	100.00	100	Vertical	Pass
2	4253.400	50.36	-4.52	74.0	23.64	Peak	185.00	400	Vertical	Pass
2**	4253.400	40.51	-4.52	54.0	13.49	AV	185.00	400	Vertical	Pass
3	5827.400	107.46	-1.94	--	--	Peak	31.00	150	Vertical	N/A
3**	5827.400	100.89	-1.94	--	--	AV	31.00	150	Vertical	N/A
4	7341.837	49.47	-3.15	74.0	24.53	Peak	175.00	200	Vertical	Pass
4**	7341.837	40.56	-3.15	54.0	13.44	AV	175.00	200	Vertical	Pass
5	12245.437	53.27	1.01	74.0	20.73	Peak	271.00	100	Vertical	Pass
5**	12245.437	44.05	1.01	54.0	9.95	AV	271.00	100	Vertical	Pass
6	15491.025	55.90	0.96	74.0	18.10	Peak	217.00	300	Vertical	Pass
6**	15491.025	45.83	0.96	54.0	8.17	AV	217.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1586.200	39.09	-16.87	74.0	34.91	Peak	221.00	100	Horizontal	Pass
1**	1586.200	30.88	-16.87	54.0	23.12	AV	221.00	100	Horizontal	Pass
2	4379.600	50.51	-3.30	74.0	23.49	Peak	243.00	400	Horizontal	Pass
2**	4379.600	41.28	-3.30	54.0	12.72	AV	243.00	400	Horizontal	Pass
3	5740.800	105.57	-2.17	--	--	Peak	348.00	150	Horizontal	N/A
3**	5740.800	97.58	-2.17	--	--	AV	348.00	150	Horizontal	N/A
4	7726.225	50.00	-2.47	74.0	24.00	Peak	311.00	400	Horizontal	Pass
4**	7726.225	40.73	-2.47	54.0	13.27	AV	311.00	400	Horizontal	Pass
5	10825.475	53.33	0.21	74.0	20.67	Peak	21.00	100	Horizontal	Pass
5**	10825.475	43.61	0.21	54.0	10.39	AV	21.00	100	Horizontal	Pass
6	15846.450	56.11	1.36	74.0	17.89	Peak	33.00	100	Horizontal	Pass
6**	15846.450	47.26	1.36	54.0	6.74	AV	33.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1482.100	39.94	-17.06	74.0	34.06	Peak	197.00	100	Vertical	Pass
1**	1482.100	29.33	-17.06	54.0	24.67	AV	197.00	100	Vertical	Pass
2	4346.200	50.39	-4.36	74.0	23.61	Peak	360.00	100	Vertical	Pass
2**	4346.200	41.22	-4.36	54.0	12.78	AV	360.00	100	Vertical	Pass
3	5751.000	107.89	-2.21	--	--	Peak	31.00	100	Vertical	N/A
3**	5751.000	99.95	-2.21	--	--	AV	31.00	100	Vertical	N/A
4	7598.287	49.68	-2.91	74.0	24.32	Peak	236.00	300	Vertical	Pass
4**	7598.287	40.30	-2.91	54.0	13.70	AV	236.00	300	Vertical	Pass
5	12317.600	53.20	1.41	74.0	20.80	Peak	0.00	150	Vertical	Pass
5**	12317.600	43.82	1.41	54.0	10.18	AV	0.00	150	Vertical	Pass
6	16061.175	55.89	0.99	74.0	18.11	Peak	0.00	300	Vertical	Pass
6**	16061.175	47.59	0.99	54.0	6.41	AV	0.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1558.500	39.46	-16.98	74.0	34.54	Peak	252.00	400	Horizontal	Pass
1**	1558.500	29.74	-16.98	54.0	24.26	AV	252.00	400	Horizontal	Pass
2	4274.600	50.17	-4.92	74.0	23.83	Peak	200.00	200	Horizontal	Pass
2**	4274.600	40.98	-4.92	54.0	13.02	AV	200.00	200	Horizontal	Pass
3	5783.800	105.96	-1.54	--	--	Peak	350.00	100	Horizontal	N/A
3**	5783.800	98.23	-1.54	--	--	AV	350.00	100	Horizontal	N/A
4	7344.712	50.13	-3.48	74.0	23.87	Peak	319.00	400	Horizontal	Pass
4**	7344.712	41.37	-3.48	54.0	12.63	AV	319.00	400	Horizontal	Pass
5	12285.112	53.81	1.77	74.0	20.19	Peak	0.00	200	Horizontal	Pass
5**	12285.112	44.12	1.77	54.0	9.88	AV	0.00	200	Horizontal	Pass
6	15661.650	56.14	1.29	74.0	17.86	Peak	33.00	300	Horizontal	Pass
6**	15661.650	46.74	1.29	54.0	7.26	AV	33.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.200	39.78	-17.00	74.0	34.22	Peak	127.00	200	Vertical	Pass
1**	1503.200	29.15	-17.00	54.0	24.85	AV	127.00	200	Vertical	Pass
2	4313.200	50.39	-4.21	74.0	23.61	Peak	140.00	400	Vertical	Pass
2**	4313.200	41.33	-4.21	54.0	12.67	AV	140.00	400	Vertical	Pass
3	5783.600	108.34	-1.51	--	--	Peak	35.00	100	Vertical	N/A
3**	5783.600	100.08	-1.51	--	--	AV	35.00	100	Vertical	N/A
4	7681.662	50.06	-2.66	74.0	23.94	Peak	360.00	400	Vertical	Pass
4**	7681.662	40.08	-2.66	54.0	13.92	AV	360.00	400	Vertical	Pass
5	11947.300	54.02	1.47	74.0	19.98	Peak	320.00	150	Vertical	Pass
5**	11947.300	44.98	1.47	54.0	9.02	AV	320.00	150	Vertical	Pass
6	16014.713	56.36	0.48	74.0	17.64	Peak	168.00	400	Vertical	Pass
6**	16014.713	46.75	0.48	54.0	7.25	AV	168.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.700	39.15	-17.22	74.0	34.85	Peak	177.00	200	Horizontal	Pass
1**	1597.700	30.16	-17.22	54.0	23.84	AV	177.00	200	Horizontal	Pass
2	4388.600	51.02	-3.39	74.0	22.98	Peak	275.00	100	Horizontal	Pass
2**	4388.600	40.96	-3.39	54.0	13.04	AV	275.00	100	Horizontal	Pass
3	5832.400	106.03	-1.74	--	--	Peak	350.00	200	Horizontal	N/A
3**	5832.400	98.30	-1.74	--	--	AV	350.00	200	Horizontal	N/A
4	7341.263	49.91	-3.09	74.0	24.09	Peak	138.00	300	Horizontal	Pass
4**	7341.263	41.53	-3.09	54.0	12.47	AV	138.00	300	Horizontal	Pass
5	12310.125	53.23	1.37	74.0	20.77	Peak	353.00	200	Horizontal	Pass
5**	12310.125	43.99	1.37	54.0	10.01	AV	353.00	200	Horizontal	Pass
6	15835.950	56.24	1.45	74.0	17.76	Peak	53.00	200	Horizontal	Pass
6**	15835.950	46.83	1.45	54.0	7.17	AV	53.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.500	39.36	-17.31	74.0	34.64	Peak	81.00	300	Vertical	Pass
1**	1521.500	29.37	-17.31	54.0	24.63	AV	81.00	300	Vertical	Pass
2	4373.400	51.25	-3.81	74.0	22.75	Peak	256.00	100	Vertical	Pass
2**	4373.400	41.70	-3.81	54.0	12.30	AV	256.00	100	Vertical	Pass
3	5823.400	106.97	-2.13	--	--	Peak	26.00	150	Vertical	N/A
3**	5823.400	99.30	-2.13	--	--	AV	26.00	150	Vertical	N/A
4	7343.850	49.65	-3.43	74.0	24.35	Peak	285.00	200	Vertical	Pass
4**	7343.850	40.98	-3.43	54.0	13.02	AV	285.00	200	Vertical	Pass
5	12607.112	53.92	1.91	74.0	20.08	Peak	196.00	150	Vertical	Pass
5**	12607.112	43.34	1.91	54.0	10.66	AV	196.00	150	Vertical	Pass
6	15628.575	56.88	1.71	74.0	17.12	Peak	32.00	200	Vertical	Pass
6**	15628.575	46.29	1.71	54.0	7.71	AV	32.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1483.900	38.80	-16.87	74.0	35.20	Peak	168.00	400	Horizontal	Pass
1**	1483.900	29.84	-16.87	54.0	24.16	AV	168.00	400	Horizontal	Pass
2	4354.200	50.32	-4.26	74.0	23.68	Peak	186.00	100	Horizontal	Pass
2**	4354.200	41.08	-4.26	54.0	12.92	AV	186.00	100	Horizontal	Pass
3	5752.200	103.91	-1.96	--	--	Peak	349.00	150	Horizontal	N/A
3**	5752.200	96.09	-1.96	--	--	AV	349.00	150	Horizontal	N/A
4	7339.825	50.26	-2.95	74.0	23.74	Peak	256.00	300	Horizontal	Pass
4**	7339.825	41.23	-2.95	54.0	12.77	AV	256.00	300	Horizontal	Pass
5	12276.775	53.43	1.68	74.0	20.57	Peak	360.00	150	Horizontal	Pass
5**	12276.775	44.94	1.68	54.0	9.06	AV	360.00	150	Horizontal	Pass
6	15523.049	56.08	1.39	74.0	17.92	Peak	106.00	100	Horizontal	Pass
6**	15523.049	45.92	1.39	54.0	8.08	AV	106.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.600	39.85	-17.09	74.0	34.15	Peak	132.00	300	Vertical	Pass
1**	1497.600	30.08	-17.09	54.0	23.92	AV	132.00	300	Vertical	Pass
2	4362.800	50.49	-4.31	74.0	23.51	Peak	6.00	300	Vertical	Pass
2**	4362.800	40.70	-4.31	54.0	13.30	AV	6.00	300	Vertical	Pass
3	5751.200	106.53	-2.17	--	--	Peak	31.00	100	Vertical	N/A
3**	5751.200	98.57	-2.17	--	--	AV	31.00	100	Vertical	N/A
4	7336.950	50.00	-3.01	74.0	24.00	Peak	206.00	200	Vertical	Pass
4**	7336.950	41.00	-3.01	54.0	13.00	AV	206.00	200	Vertical	Pass
5	12414.775	53.74	1.42	74.0	20.26	Peak	149.00	200	Vertical	Pass
5**	12414.775	43.06	1.42	54.0	10.94	AV	149.00	200	Vertical	Pass
6	16102.651	55.88	1.08	74.0	18.12	Peak	101.00	400	Vertical	Pass
6**	16102.651	46.41	1.08	54.0	7.59	AV	101.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1610.600	39.56	-17.10	74.0	34.44	Peak	215.00	400	Horizontal	Pass
1**	1610.600	29.82	-17.10	54.0	24.18	AV	215.00	400	Horizontal	Pass
2	4369.600	50.46	-3.97	74.0	23.54	Peak	149.00	400	Horizontal	Pass
2**	4369.600	42.20	-3.97	54.0	11.80	AV	149.00	400	Horizontal	Pass
3	5802.400	103.22	-1.91	--	--	Peak	350.00	150	Horizontal	N/A
3**	5802.400	96.72	-1.91	--	--	AV	350.00	150	Horizontal	N/A
4	7278.875	50.08	-3.16	74.0	23.92	Peak	140.00	300	Horizontal	Pass
4**	7278.875	40.25	-3.16	54.0	13.75	AV	140.00	300	Horizontal	Pass
5	11914.526	53.80	1.49	74.0	20.20	Peak	121.00	200	Horizontal	Pass
5**	11914.526	44.32	1.49	54.0	9.68	AV	121.00	200	Horizontal	Pass
6	16184.287	56.41	1.53	74.0	17.59	Peak	360.00	300	Horizontal	Pass
6**	16184.287	46.18	1.53	54.0	7.82	AV	360.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.300	38.64	-16.81	74.0	35.36	Peak	287.00	400	Vertical	Pass
1**	1585.300	29.85	-16.81	54.0	24.15	AV	287.00	400	Vertical	Pass
2	4343.800	50.82	-3.69	74.0	23.18	Peak	59.00	300	Vertical	Pass
2**	4343.800	41.55	-3.69	54.0	12.45	AV	59.00	300	Vertical	Pass
3	5784.600	105.58	-1.62	--	--	Peak	35.00	100	Vertical	N/A
3**	5784.600	97.78	-1.62	--	--	AV	35.00	100	Vertical	N/A
4	7280.600	50.43	-3.02	74.0	23.57	Peak	332.00	200	Vertical	Pass
4**	7280.600	40.78	-3.02	54.0	13.22	AV	332.00	200	Vertical	Pass
5	11976.337	53.19	0.82	74.0	20.81	Peak	240.00	200	Vertical	Pass
5**	11976.337	44.04	0.82	54.0	9.96	AV	240.00	200	Vertical	Pass
6	16129.688	55.79	1.00	74.0	18.21	Peak	0.00	200	Vertical	Pass
6**	16129.688	46.44	1.00	54.0	7.56	AV	0.00	200	Vertical	Pass

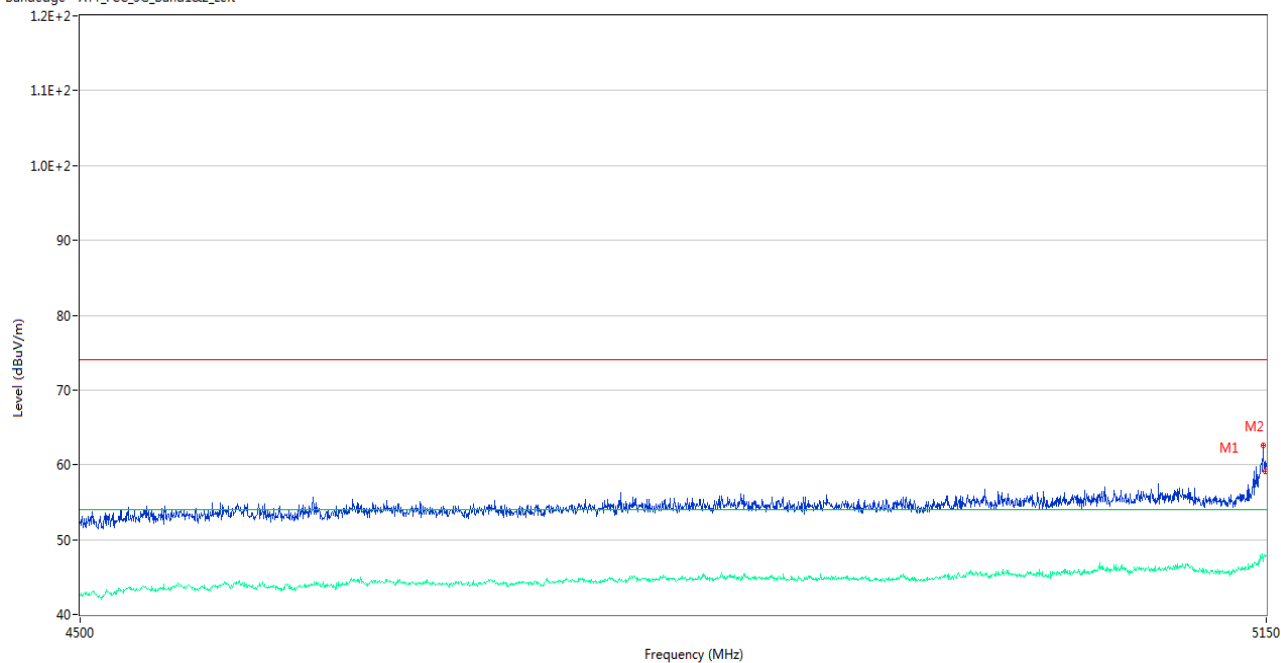
A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
U-NII-2A	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
U-NII-2C	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass

Test Data and Plots

U-NII-1 11a Low Channel

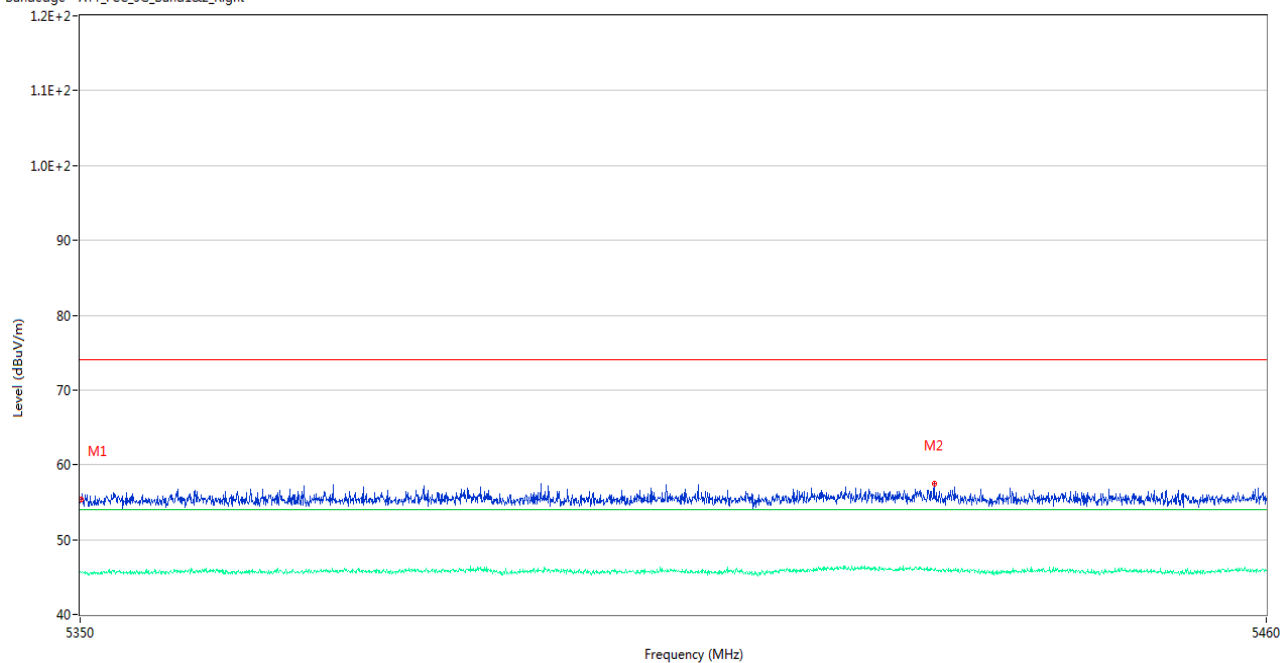
Bandedge - ATT_FCC_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.050	62.54	2.14	74.0	11.46	Peak	343.00	200	Horizontal	Pass
1**	5148.050	47.03	2.14	54.0	6.97	AV	343.00	200	Horizontal	Pass
2	5149.675	59.09	2.07	74.0	14.91	Peak	340.00	200	Horizontal	Pass
2**	5149.675	47.86	2.07	54.0	6.14	AV	340.00	200	Horizontal	Pass

U-NII-1 11a High Channel

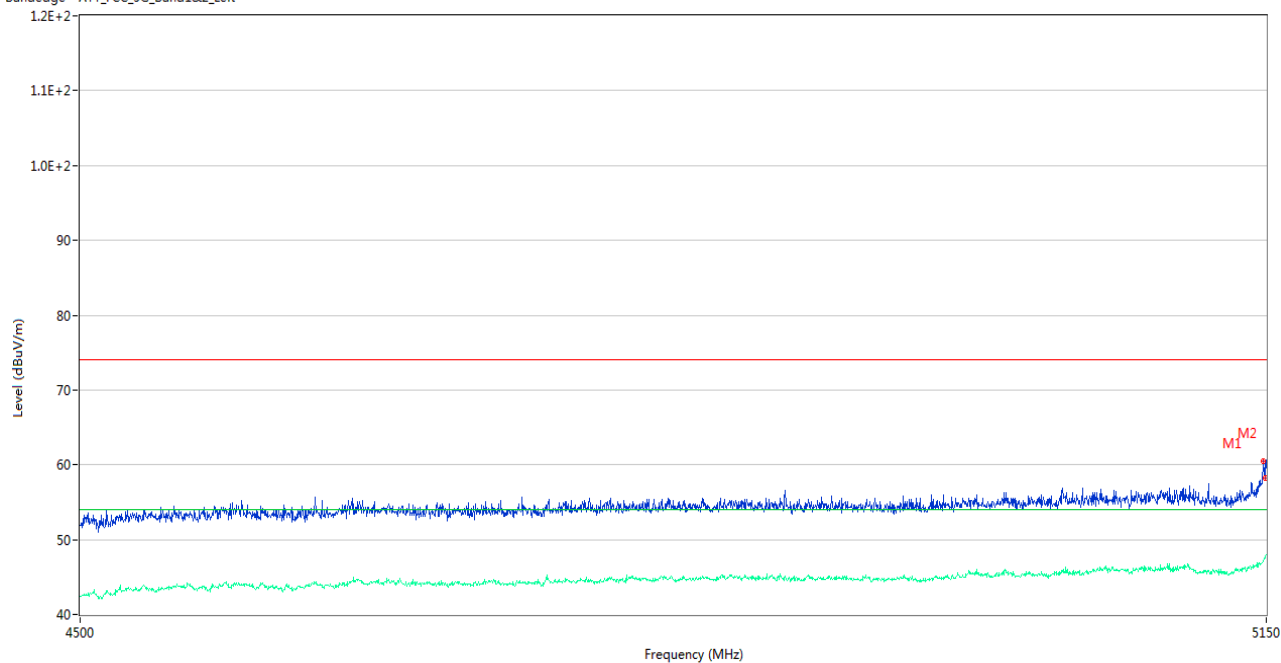
Bandedge - ATT_FCC_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.37	1.93	74.0	18.63	Peak	262.00	100	Horizontal	Pass
1**	5350.055	45.63	1.93	54.0	8.37	AV	262.00	100	Horizontal	Pass
2	5428.980	57.55	2.36	74.0	16.45	Peak	54.00	150	Horizontal	Pass
2**	5428.980	45.85	2.36	54.0	8.15	AV	54.00	150	Horizontal	Pass

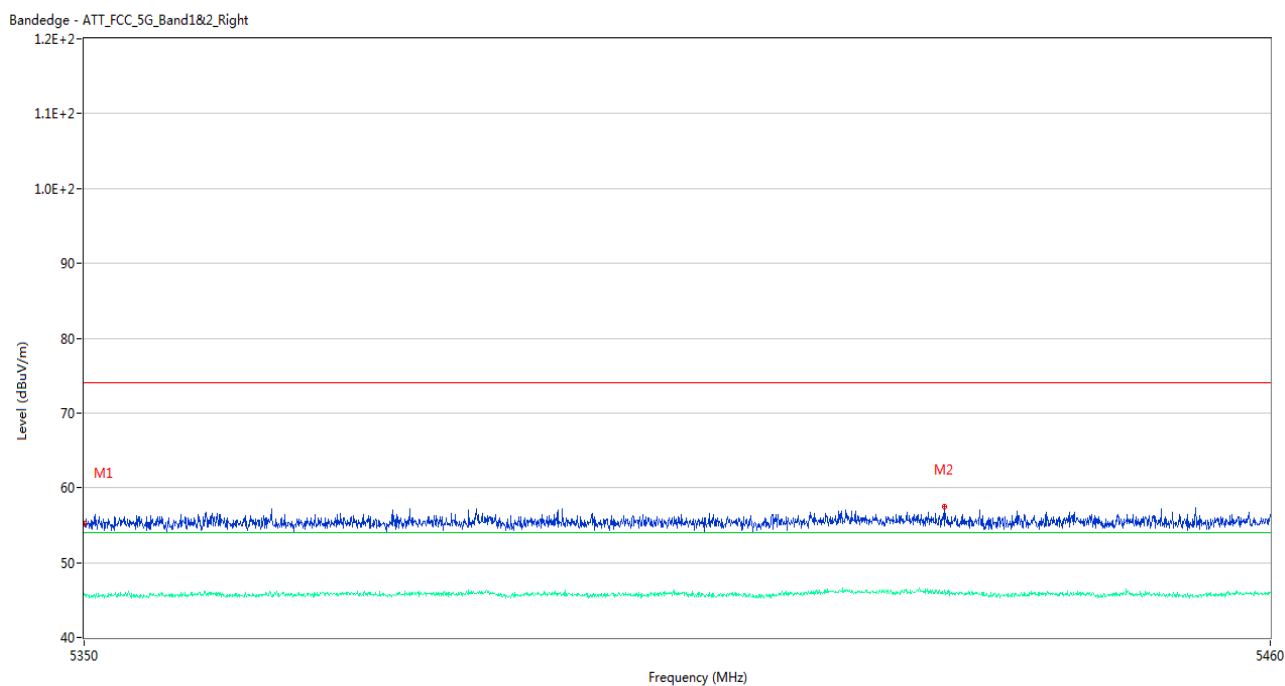
U-NII-1 11n20 Low Channel

Bandedge - ATT_FCC_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.050	60.54	2.14	74.0	13.46	Peak	0.00	200	Horizontal	Pass
1**	5148.050	47.15	2.14	54.0	6.85	AV	0.00	200	Horizontal	Pass
2	5149.675	58.20	2.07	74.0	15.80	Peak	336.00	100	Horizontal	Pass
2**	5149.675	47.78	2.07	54.0	6.22	AV	336.00	100	Horizontal	Pass

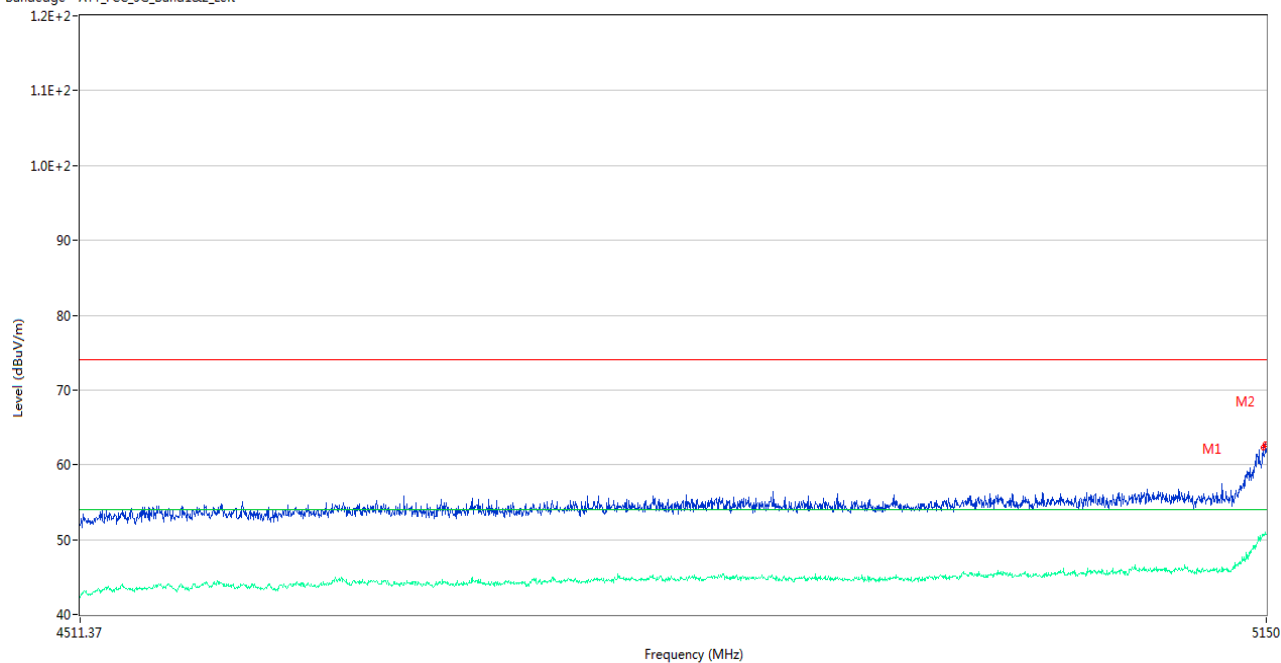
U-NII-1 11n20 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.22	1.93	74.0	18.78	Peak	34.00	200	Horizontal	Pass
1**	5350.000	45.83	1.93	54.0	8.17	AV	34.00	200	Horizontal	Pass
2	5429.585	57.49	2.30	74.0	16.51	Peak	188.00	100	Horizontal	Pass
2**	5429.585	46.39	2.30	54.0	7.61	AV	188.00	100	Horizontal	Pass

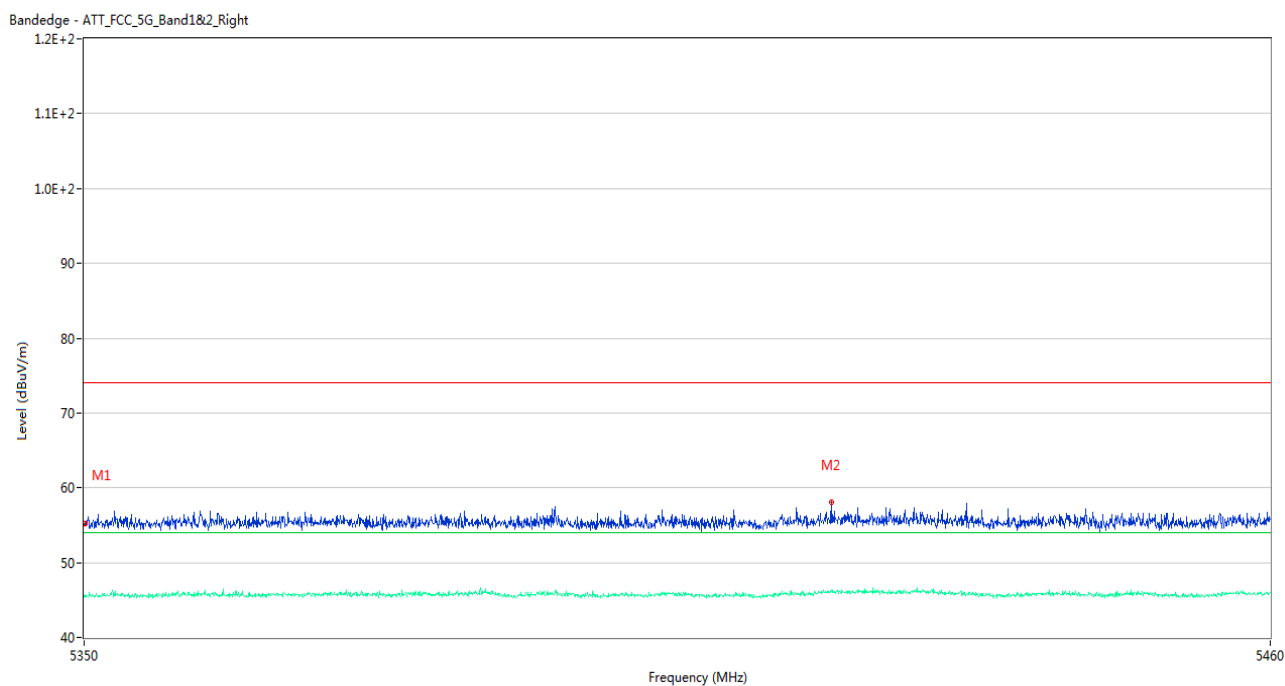
U-NII-1 11n40 Low Channel

Bandedge - ATT_FCC_5G_Band1&2_Left



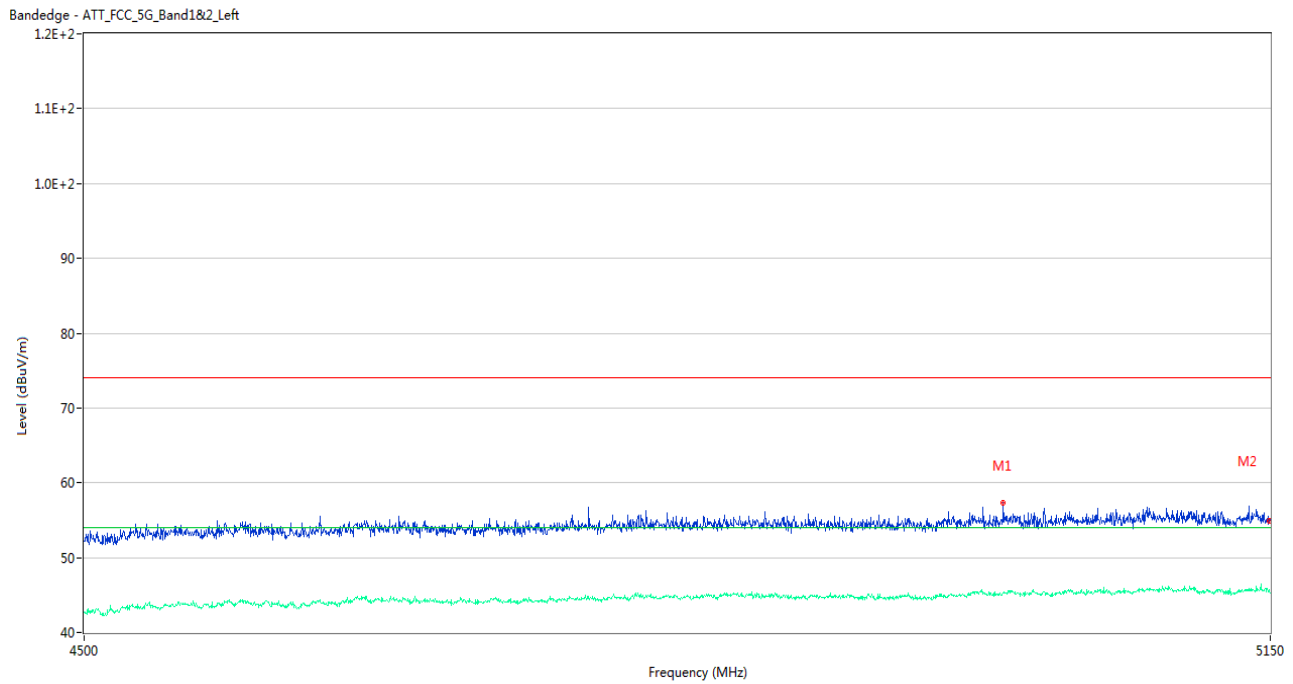
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.050	62.30	2.14	74.0	11.70	Peak	360.00	150	Horizontal	Pass
1**	5148.050	50.58	2.14	54.0	3.42	AV	360.00	150	Horizontal	Pass
2	5149.675	62.74	2.07	74.0	11.26	Peak	360.00	200	Horizontal	Pass
2**	5149.675	50.98	2.07	54.0	3.02	AV	360.00	200	Horizontal	Pass

U-NII-1 11n40 High Channel



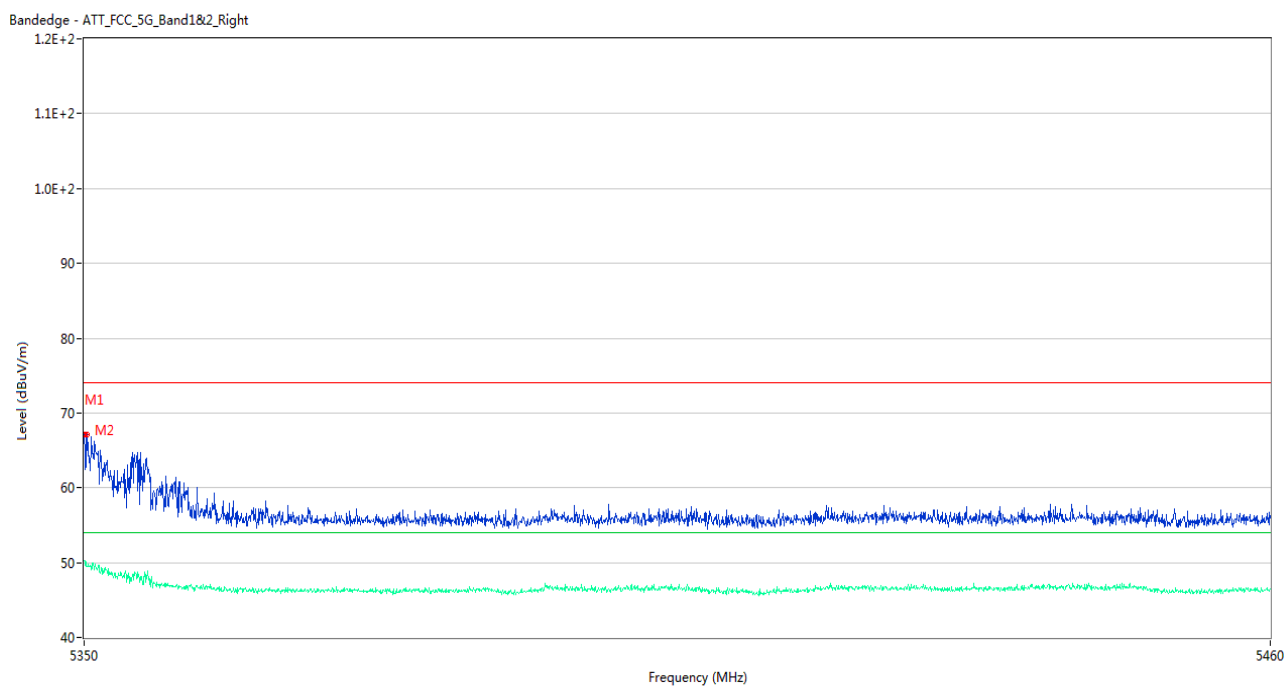
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.19	1.93	74.0	18.81	Peak	22.00	200	Horizontal	Pass
1**	5350.055	45.71	1.93	54.0	8.29	AV	22.00	200	Horizontal	Pass
2	5419.025	58.04	2.46	74.0	15.96	Peak	156.00	100	Horizontal	Pass
2**	5419.025	46.33	2.46	54.0	7.67	AV	156.00	100	Horizontal	Pass

U-NII-2A 11a Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4995.950	57.30	1.96	74.0	16.70	Peak	0.00	200	Horizontal	Pass
1**	4995.950	45.27	1.96	54.0	8.73	AV	0.00	200	Horizontal	Pass
2	5149.675	54.92	2.07	74.0	19.08	Peak	42.00	150	Horizontal	Pass
2**	5149.675	45.59	2.07	54.0	8.41	AV	42.00	150	Horizontal	Pass

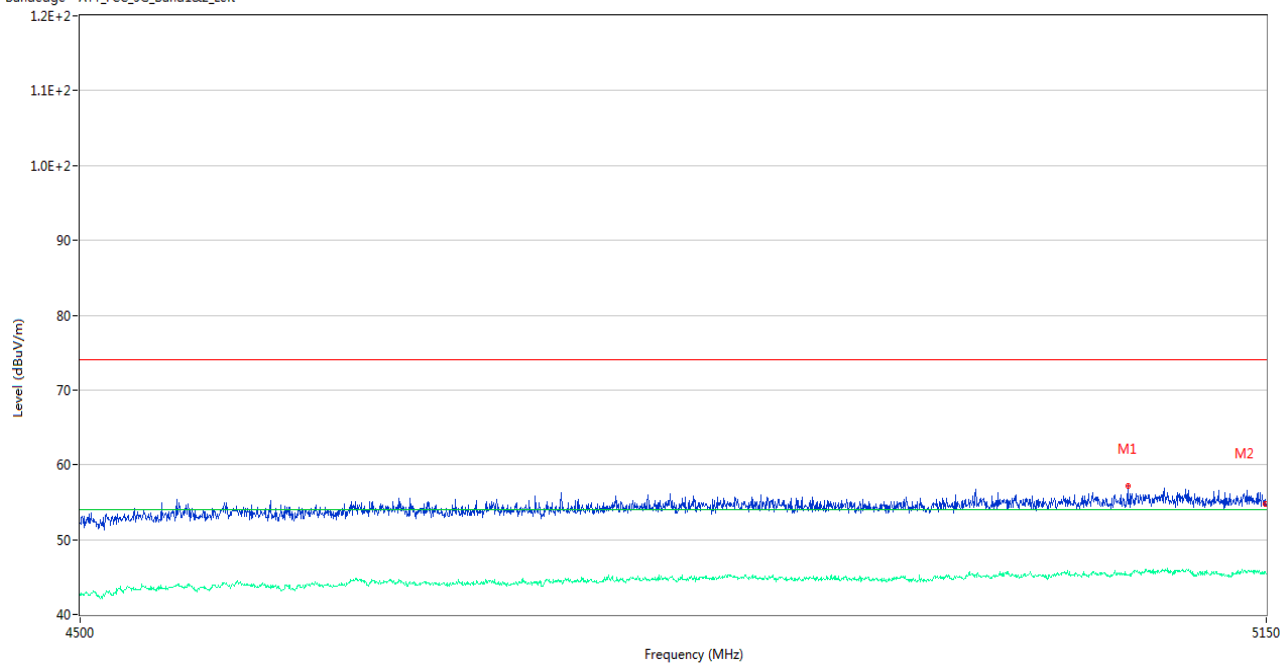
U-NII-2A 11a High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	67.17	1.93	74.0	6.83	Peak	360.00	100	Horizontal	Pass
1**	5350.000	50.25	1.93	54.0	3.75	AV	360.00	100	Horizontal	Pass
2	5350.275	67.13	1.92	74.0	6.87	Peak	0.00	100	Horizontal	Pass
2**	5350.275	49.56	1.92	54.0	4.44	AV	0.00	100	Horizontal	Pass

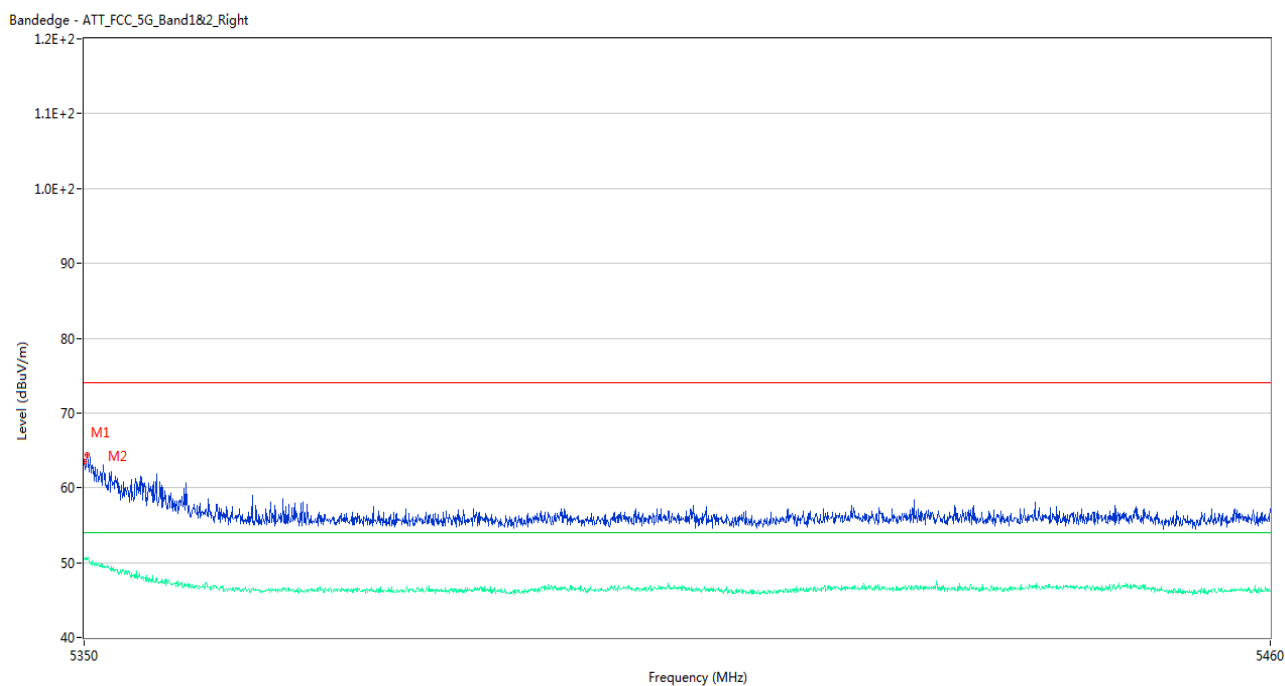
U-NII-2A 11n20 Low Channel

Bandedge - ATT_FCC_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5069.400	57.18	1.92	74.0	16.82	Peak	23.00	150	Horizontal	Pass
1**	5069.400	45.31	1.92	54.0	8.69	AV	23.00	150	Horizontal	Pass
2	5149.675	54.73	2.07	74.0	19.27	Peak	169.00	150	Horizontal	Pass
2**	5149.675	45.60	2.07	54.0	8.40	AV	169.00	150	Horizontal	Pass

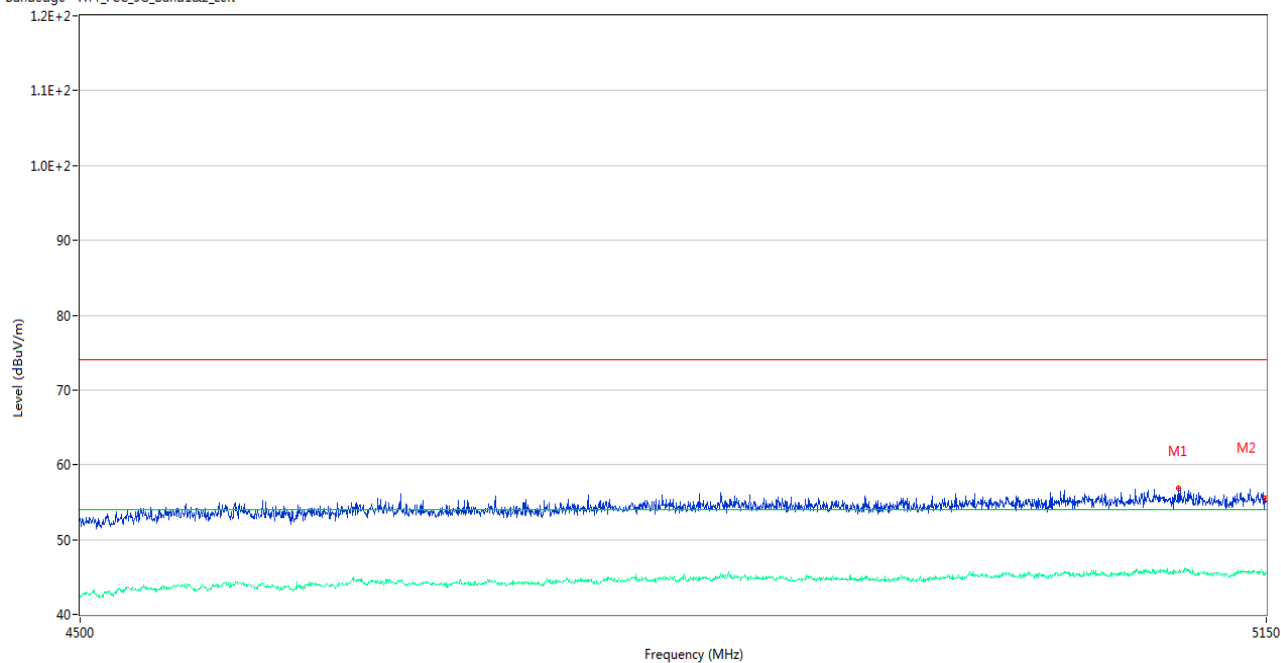
U-NII-2A 11n20 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	63.45	1.93	74.0	10.55	Peak	348.00	100	Horizontal	Pass
1**	5350.000	50.58	1.93	54.0	3.42	AV	348.00	100	Horizontal	Pass
2	5350.275	64.36	1.92	74.0	9.64	Peak	0.00	150	Horizontal	Pass
2**	5350.275	50.42	1.92	54.0	3.58	AV	0.00	150	Horizontal	Pass

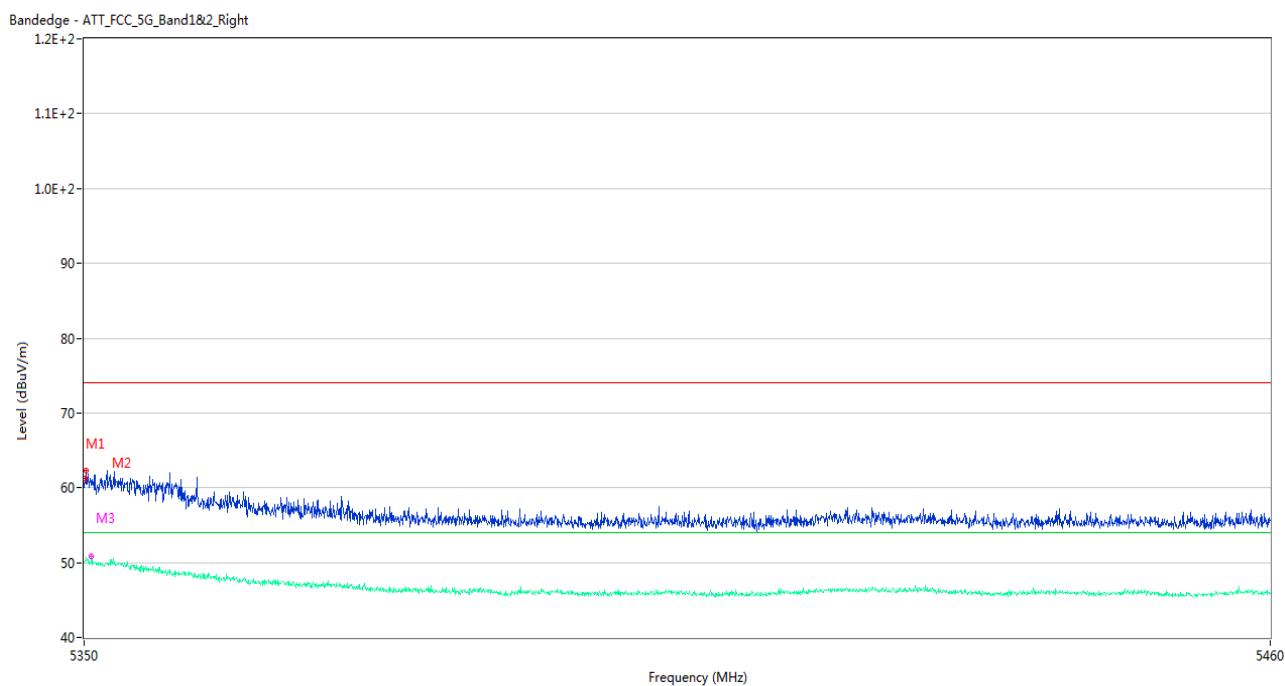
U-NII-2A 11n40 Low Channel

Bandedge - ATT_FCC_5G_Band1&2_Left



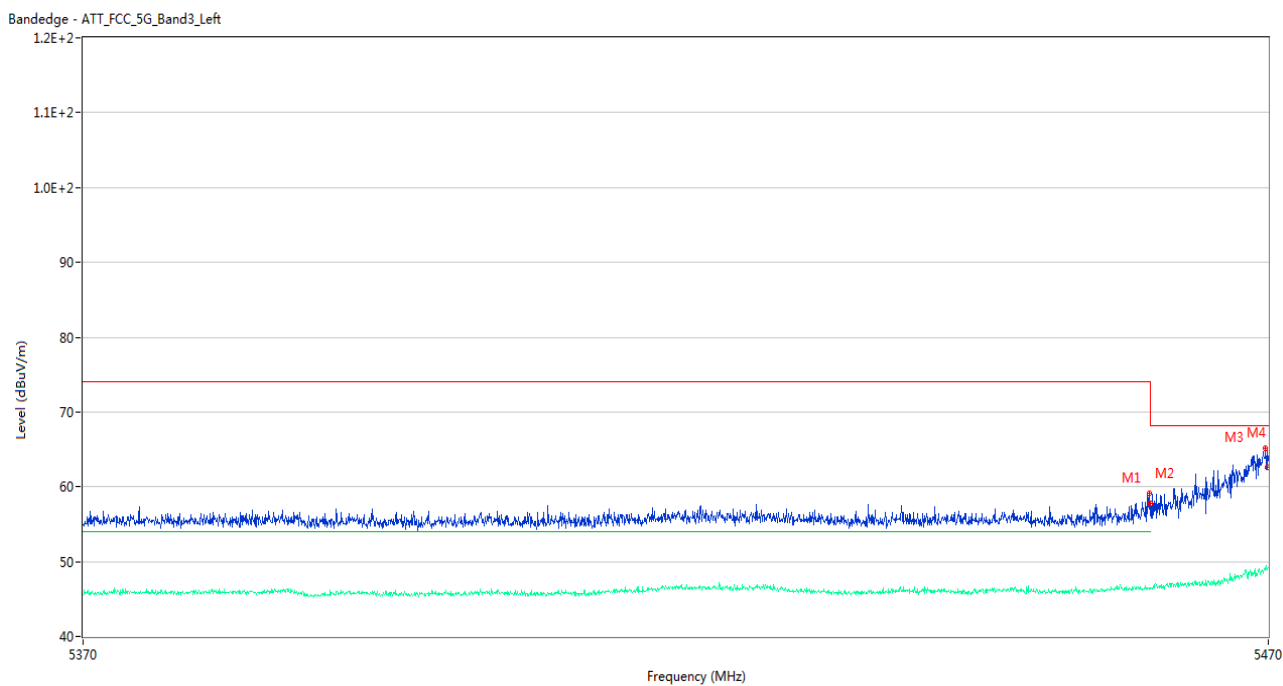
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5098.650	56.87	2.32	74.0	17.13	Peak	81.00	150	Horizontal	Pass
1**	5098.650	45.65	2.32	54.0	8.35	AV	81.00	150	Horizontal	Pass
2	5149.675	55.56	2.07	74.0	18.44	Peak	355.00	150	Horizontal	Pass
2**	5149.675	45.30	2.07	54.0	8.70	AV	355.00	150	Horizontal	Pass

U-NII-2A 11n40 High Channel



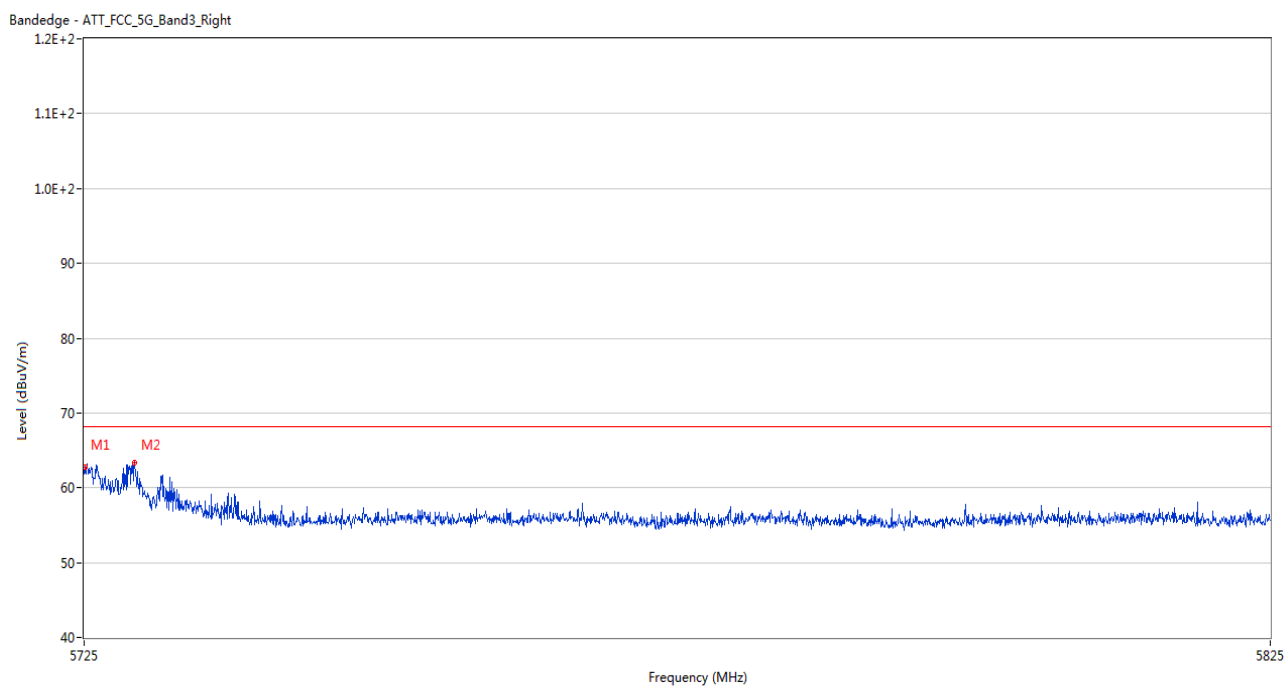
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	61.25	1.93	74.0	12.75	Peak	0.00	100	Horizontal	Pass
1**	5350.055	50.27	1.93	54.0	3.73	AV	0.00	100	Horizontal	Pass
2	5350.165	62.31	1.92	74.0	11.69	Peak	0.00	100	Horizontal	Pass
2**	5350.165	50.22	1.92	54.0	3.78	AV	0.00	100	Horizontal	Pass
3	5350.660	61.01	1.89	74.0	12.99	Peak	0.00	150	Horizontal	Pass
3**	5350.660	50.78	1.89	54.0	3.22	AV	0.00	150	Horizontal	Pass

U-NII-2C 11a Low Channel



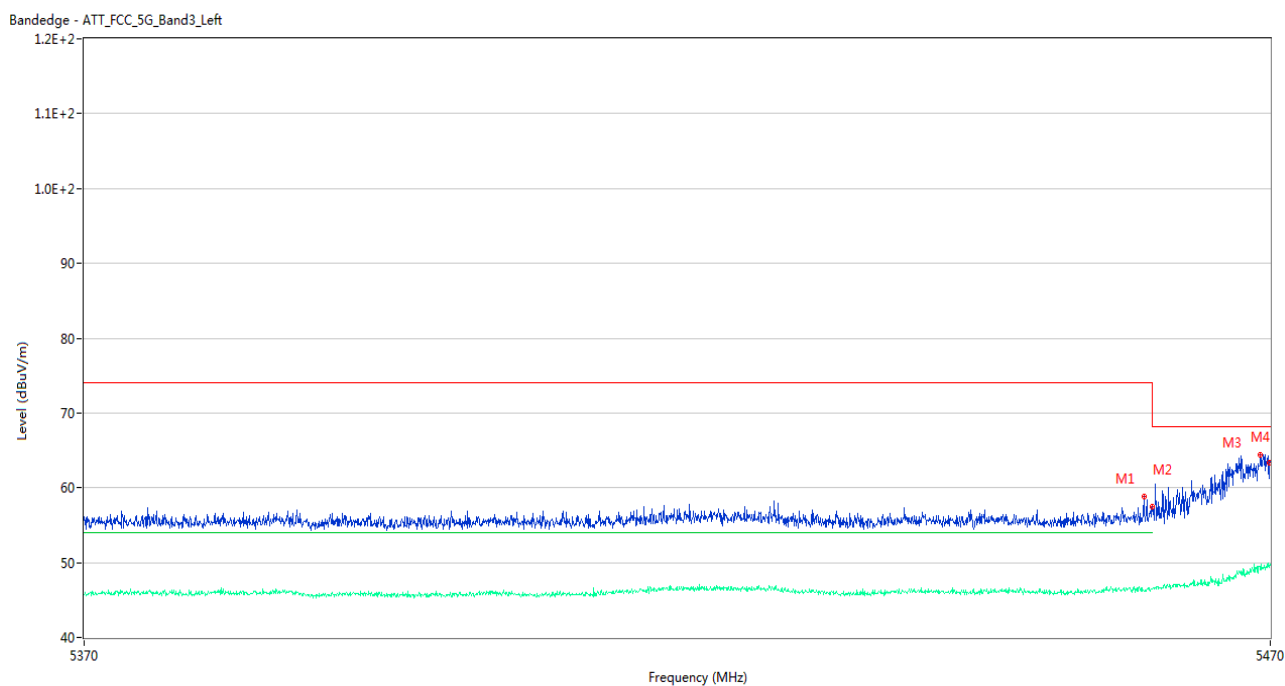
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.850	59.21	2.48	74.0	14.79	Peak	312.00	200	Horizontal	Pass
1**	5459.850	46.55	2.48	54.0	7.45	AV	312.00	200	Horizontal	Pass
2	5460.000	57.76	2.50	74.0	16.24	Peak	346.00	200	Horizontal	Pass
2**	5460.000	46.50	2.50	54.0	7.50	AV	346.00	200	Horizontal	Pass
3	5469.750	65.14	2.88	68.2	3.06	Peak	360.00	150	Horizontal	Pass
3**	5469.750	48.88	2.88	--	--	AV	360.00	150	Horizontal	N/A
4	5469.950	62.59	2.87	68.2	5.61	Peak	357.00	200	Horizontal	Pass
4**	5469.950	48.97	2.87	--	--	AV	357.00	200	Horizontal	N/A

U-NII-2C 11a High Channel



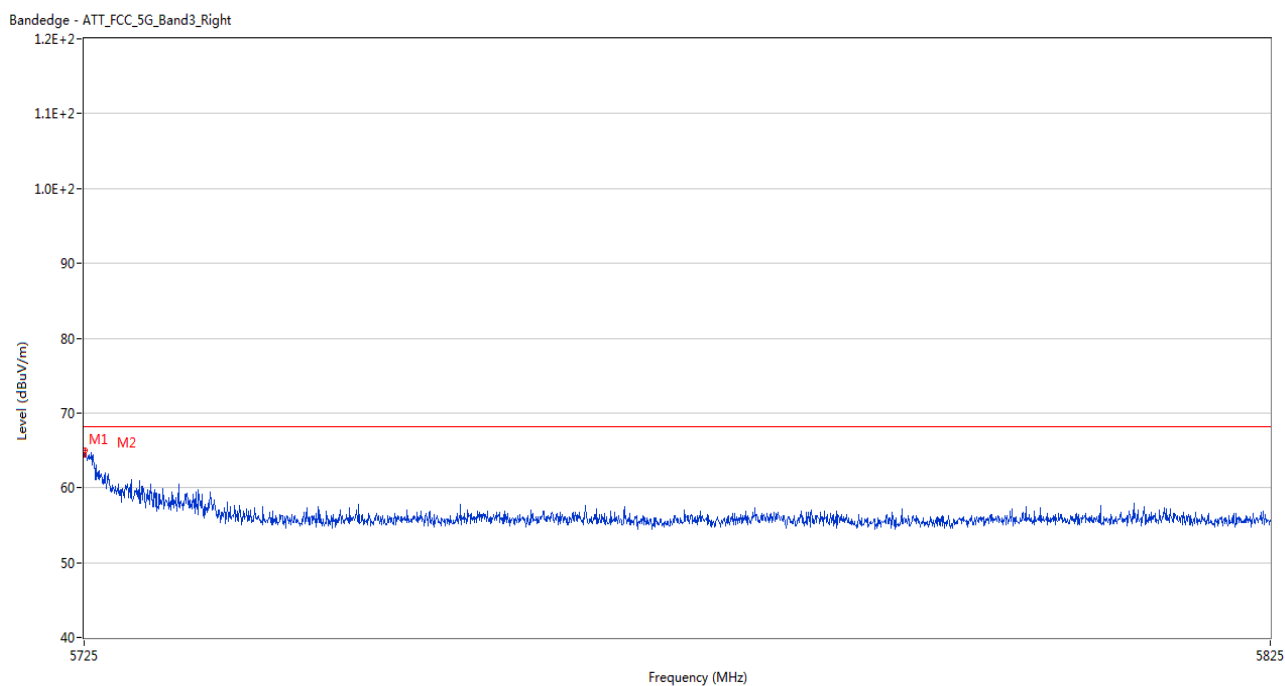
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.050	62.68	2.55	68.2	5.52	Peak	351.00	200	Horizontal	Pass
2	5729.250	63.40	2.62	68.2	4.80	Peak	12.00	150	Horizontal	Pass

U-NII-2C 11n20 Low Channel



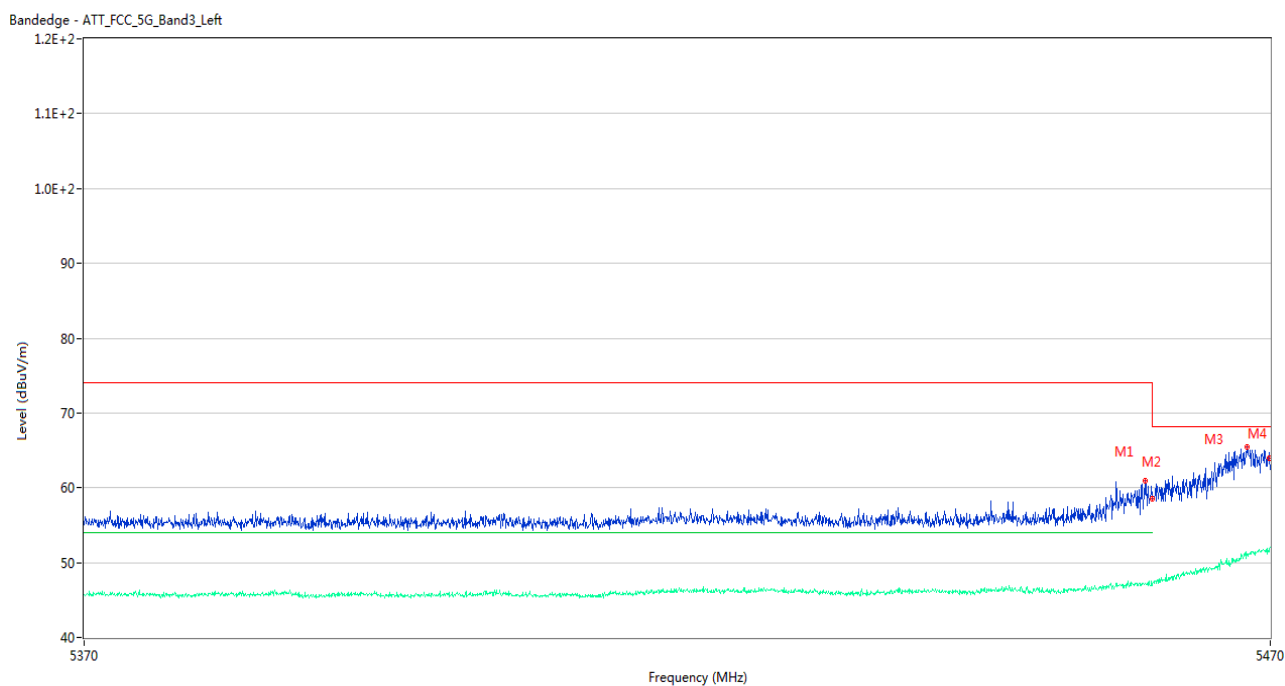
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.250	58.86	2.40	74.0	15.14	Peak	360.00	200	Horizontal	Pass
1**	5459.250	46.21	2.40	54.0	7.79	AV	360.00	200	Horizontal	Pass
2	5460.000	57.47	2.50	74.0	16.53	Peak	2.00	200	Horizontal	Pass
2**	5460.000	46.48	2.50	54.0	7.52	AV	2.00	200	Horizontal	Pass
3	5469.150	64.43	2.97	68.2	3.77	Peak	0.00	150	Horizontal	Pass
3**	5469.150	48.97	2.97	--	--	AV	0.00	150	Horizontal	N/A
4	5469.950	63.40	2.87	68.2	4.80	Peak	0.00	150	Horizontal	Pass
4**	5469.950	49.39	2.87	--	--	AV	0.00	150	Horizontal	N/A

U-NII-2C 11n20 High Channel



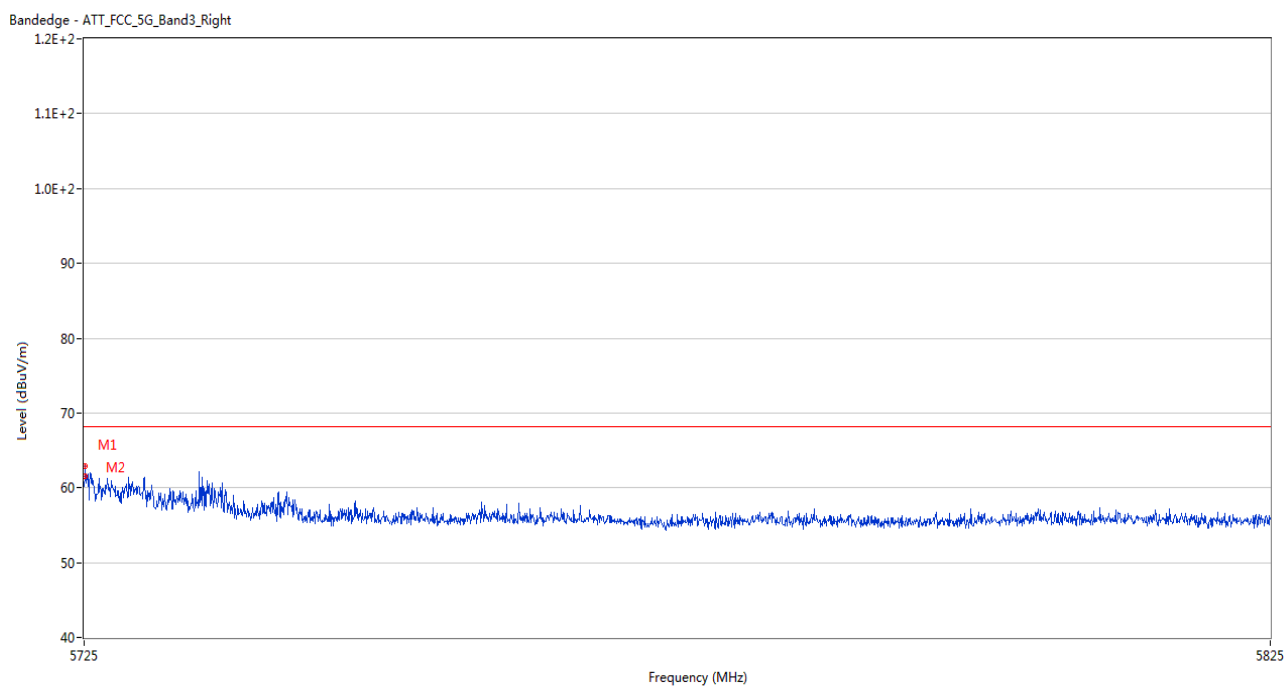
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	64.40	2.55	68.2	3.80	Peak	5.00	100	Horizontal	Pass
2	5725.100	65.07	2.55	68.2	3.13	Peak	352.00	200	Horizontal	Pass

U-NII-2C 11n40 Low Channel



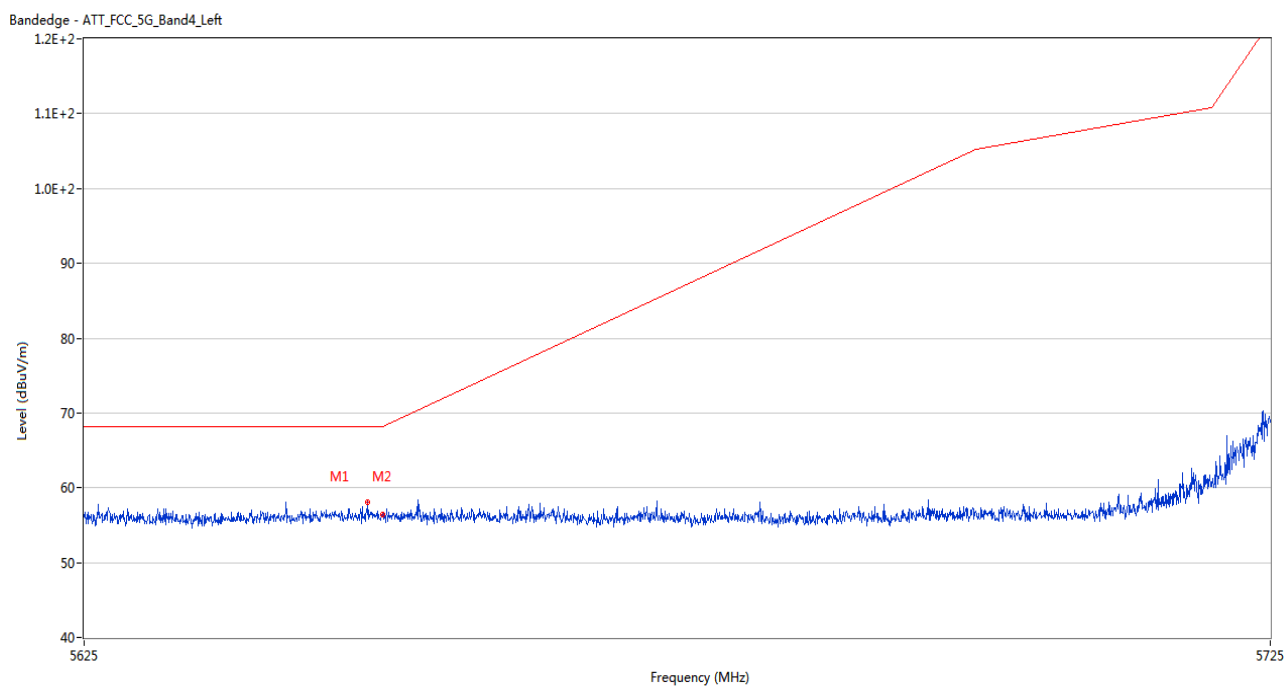
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.400	60.95	2.42	74.0	13.05	Peak	360.00	100	Horizontal	Pass
1**	5459.400	47.16	2.42	54.0	6.84	AV	360.00	100	Horizontal	Pass
2	5460.000	58.53	2.50	74.0	15.47	Peak	1.00	100	Horizontal	Pass
2**	5460.000	47.26	2.50	54.0	6.74	AV	1.00	100	Horizontal	Pass
3	5468.050	65.13	3.12	68.2	3.07	Peak	360.00	150	Horizontal	Pass
3**	5468.050	50.98	3.12	--	--	AV	360.00	150	Horizontal	N/A
4	5469.950	63.98	2.87	68.2	4.22	Peak	348.00	100	Horizontal	Pass
4**	5469.950	51.74	2.87	--	--	AV	348.00	100	Horizontal	N/A

U-NII-2C 11n40 High Channel



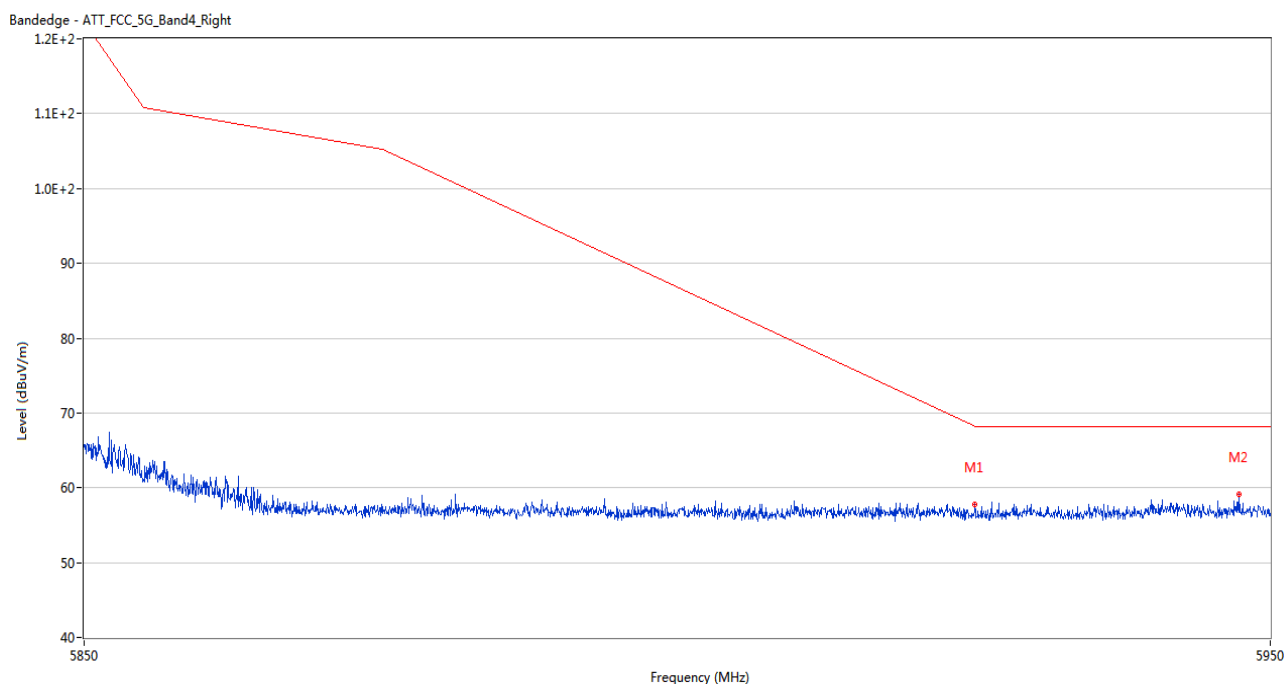
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.050	61.47	2.55	68.2	6.73	Peak	7.00	150	Horizontal	Pass
2	5725.100	62.86	2.55	68.2	5.34	Peak	0.00	100	Horizontal	Pass

U-NII-3 11a Low Channel



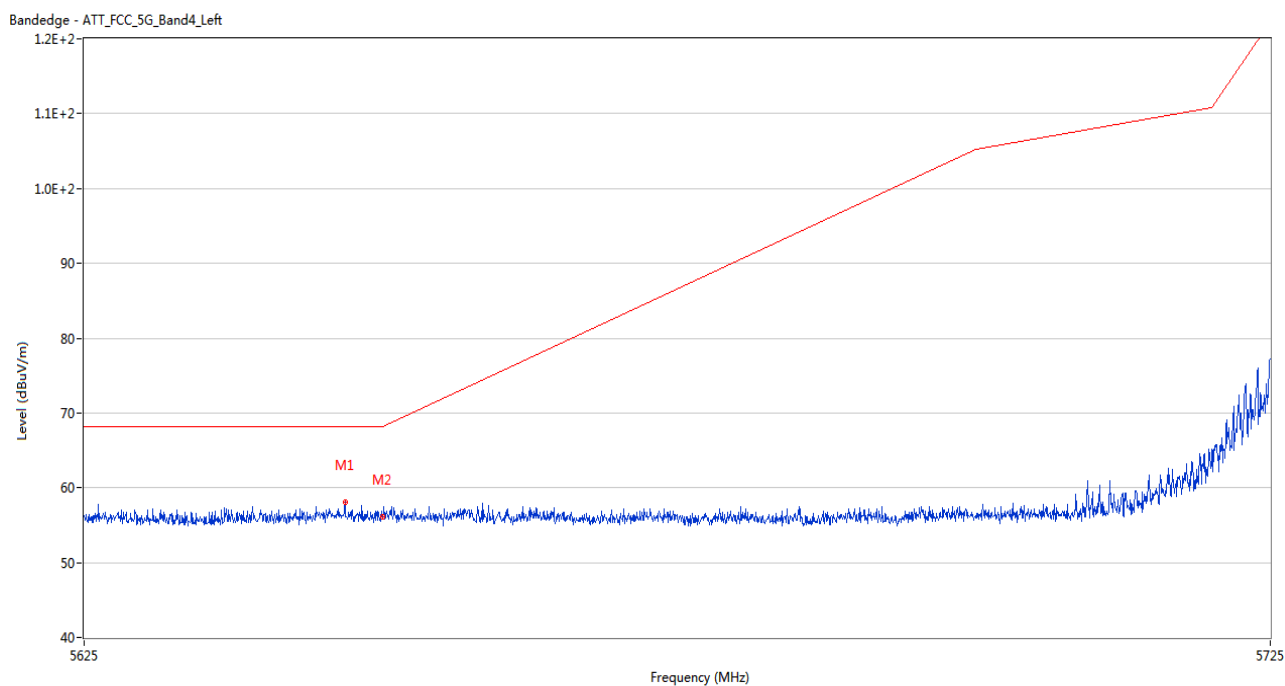
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5648.750	58.12	2.52	68.2	10.08	Peak	89.00	200	Vertical	Pass
2	5650.000	56.50	2.54	68.2	11.70	Peak	31.00	150	Vertical	Pass

U-NII-3 11a High Channel



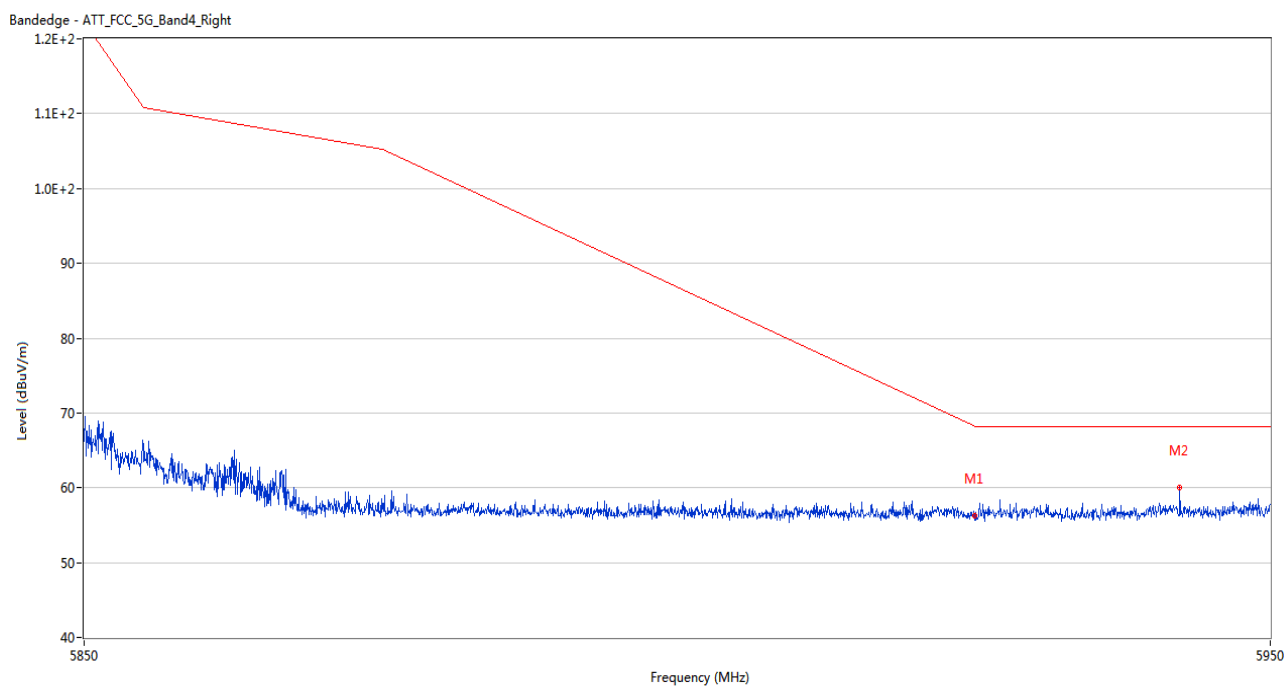
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	57.74	2.32	68.2	10.46	Peak	169.00	100	Vertical	Pass
2	5947.300	59.17	2.58	68.2	9.03	Peak	34.00	200	Vertical	Pass

U-NII-3 11n20 Low Channel



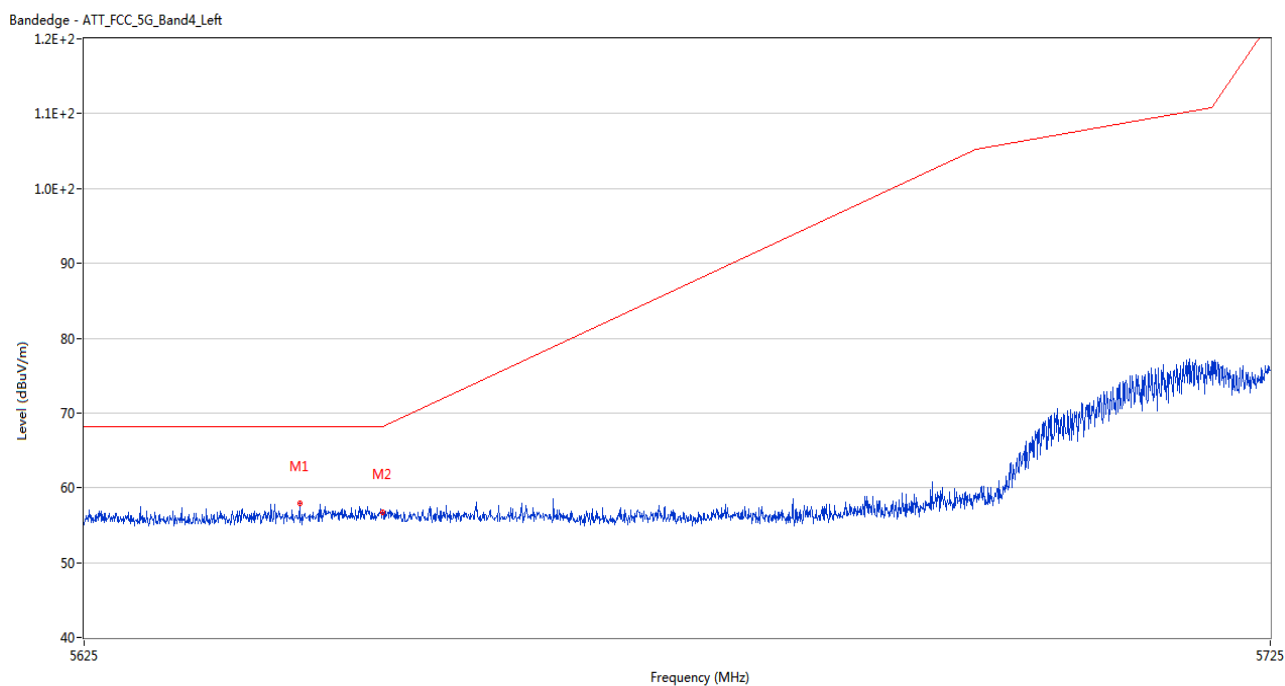
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5646.850	58.05	2.66	68.2	10.15	Peak	347.00	150	Vertical	Pass
2	5650.000	56.10	2.54	68.2	12.10	Peak	138.00	100	Vertical	Pass

U-NII-3 11n20 High Channel



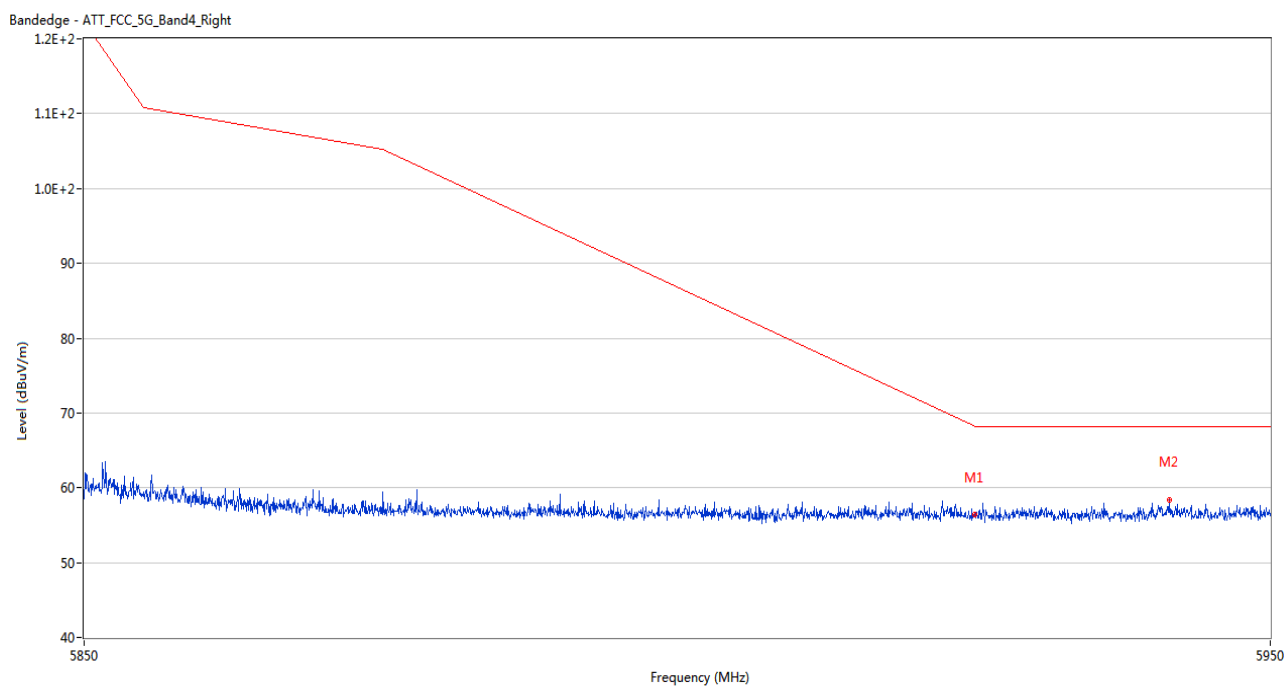
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.22	2.32	68.2	11.98	Peak	242.00	200	Vertical	Pass
2	5942.300	59.98	2.75	68.2	8.22	Peak	181.00	150	Vertical	Pass

U-NII-3 11n40 Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5643.050	57.91	2.34	68.2	10.29	Peak	77.00	100	Vertical	Pass
2	5650.000	56.77	2.54	68.2	11.43	Peak	39.00	200	Vertical	Pass

U-NII-3 11n40 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.42	2.32	68.2	11.78	Peak	211.00	100	Vertical	Pass
2	5941.400	58.43	2.85	68.2	9.77	Peak	4.00	200	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2440541-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2440541-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2440541-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--