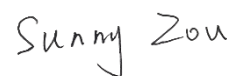


TEST REPORT

Applicant: TAG Heuer, branch of LVMH Swiss Manufactures SA
Address: 6A rue Louis-Joseph Chevrolet, 2300 La Chaux-de-Fonds, Switzerland
Equipment Type: Smart Watch
Model Name: SBT8A
Brand Name: TAG HEUER
FCC ID: 2AUP8SBT8A
ISED Number: 25510-SBT8A
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Feb. 22, 2024
Test Date: Mar. 05, 2024 - Mar. 28, 2024
Date of Issue: Aug. 08, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Si Xiao**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 08, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TAG Heuer, branch of LVMH Swiss Manufactures SA
Address	6A rue Louis-Joseph Chevrolet, 2300 La Chaux-de-Fonds, Switzerland

2.2 Manufacturer Information

Manufacturer	TAG Heuer, branch of LVMH Swiss Manufactures SA
Address	6A rue Louis-Joseph Chevrolet, 2300 La Chaux-de-Fonds, Switzerland

2.3 General Description for Equipment under Test (EUT)

EUT Name	Smart Watch
Model Name Under Test	SBT8A
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	GER1182
Hardware Version	LTAM881
Software Version	1.6.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20) U-NII-1/2A/2C/3, GPS, GLONASS, BDS, QZSS, GLA, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-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 Indoor for IC standard
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
Maximum Output Power	U-NII-1: 55.21 mW U-NII-2A: 55.59 mW U-NII-2C: 55.59 mW U-NII-3: 54.20 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	IFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: -5.87 dBi U-NII-2A: 5250 MHz to 5350 MHz: -5.06 dBi U-NII-2C: 5470 MHz to 5725 MHz: -4.53 dBi U-NII-3: 5725 MHz to 5850 MHz: -5.77 dBi
About the Product	The equipment is Smart Watch, intended for used with information technology equipment.

2.5 Channel List

20 MHz	
Channel Number	Frequency (MHz)
36	5180
40	5200
44	5220
48	5240
52	5260
56	5280
60	5300
64	5320
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720
149	5745
153	5765
157	5785
161	5805
165	5825

Note: This report equipment will not transmit in the 5600-5650 MHz frequency band when used in Canada. This restriction is to protect weather radars operating in this frequency band.

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	144	--	5720
116	Mid	5580	149	Low	5745
140	High	5700	157	Mid	5785
144	--	5720	165	High	5825

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1
				Channel
RF Output Power	11a	6	BPSK	48/44/36
	11n(20 MHz)	6.5		48/44/36
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36
	11n(20 MHz)	6.5		48/44/36
6 dB bandwidth	11a	6	BPSK	N/A
	11n(20 MHz)	6.5		N/A
Power Spectral Density	11a	6	BPSK	48/44/36
	11n(20 MHz)	6.5		48/44/36
Radiated Spurious Emissions	11a	6	BPSK	48/44/36
	11n(20 MHz)	6.5		48/44/36
Band Edge (Restricted-band)	11a	6	BPSK	48/36
	11n(20 MHz)	6.5		48/36

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	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN) Devices
4	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
5	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	Receiver Spurious Emissions	--	RSS-Gen, 7.1.2	--	N/A ^{Note2}

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	38% to 67%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+19.6℃ to +24.6℃
	LT (Low Temperature)	-20.0℃
	HT (High Temperature)	+50.0℃
Working Voltage of the EUT	NV (Normal Voltage)	3.87 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2023.07.25	2024.07.24
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2023.07.12	2024.07.11
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2023.09.05	2024.09.04
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2023.06.19	2024.06.18
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	2021.04.16	2024.04.15
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2021.08.15	2024.08.14
EMI Receiver	Agilent	N9038A	MY55330120	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11
Amplifier	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04
Anechoic Chamber	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8 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%

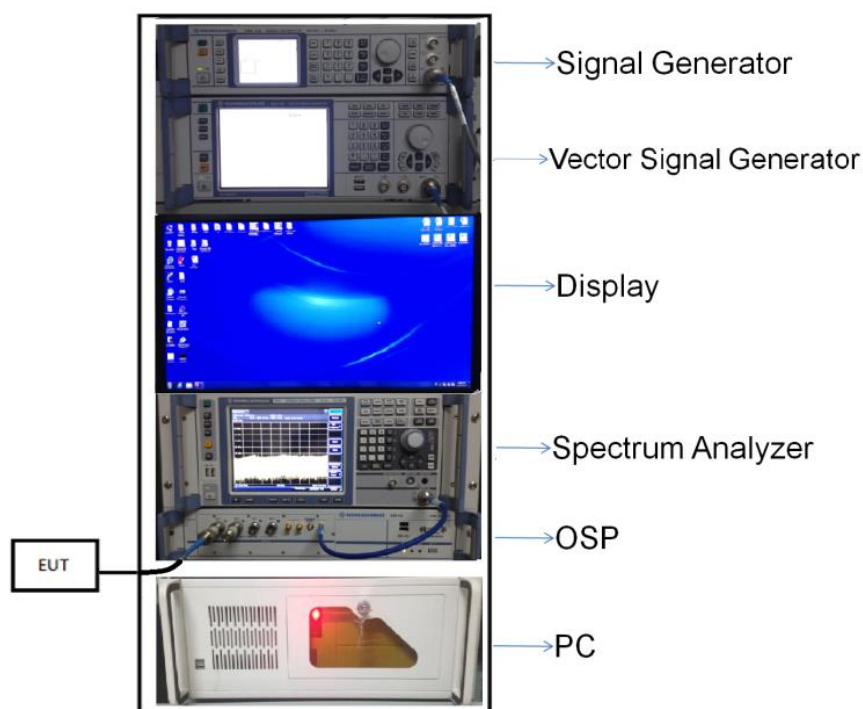
4.5 Description of Test Setup

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



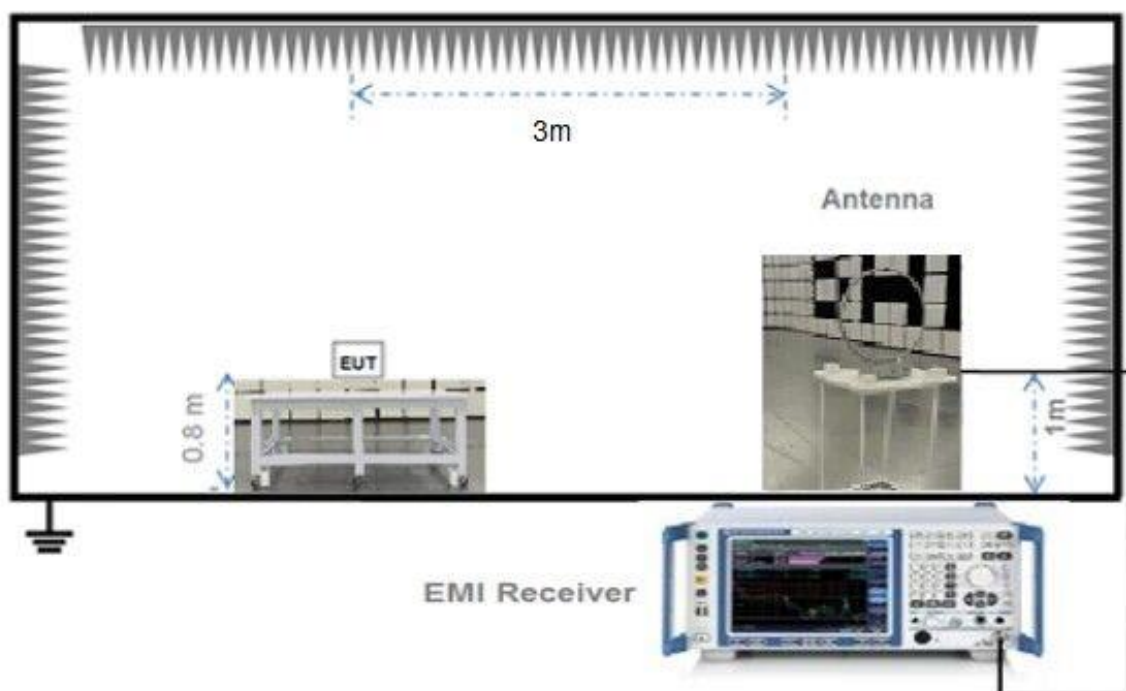
(Diagram 1)

4.5.2 For AC Power Supply Port Test



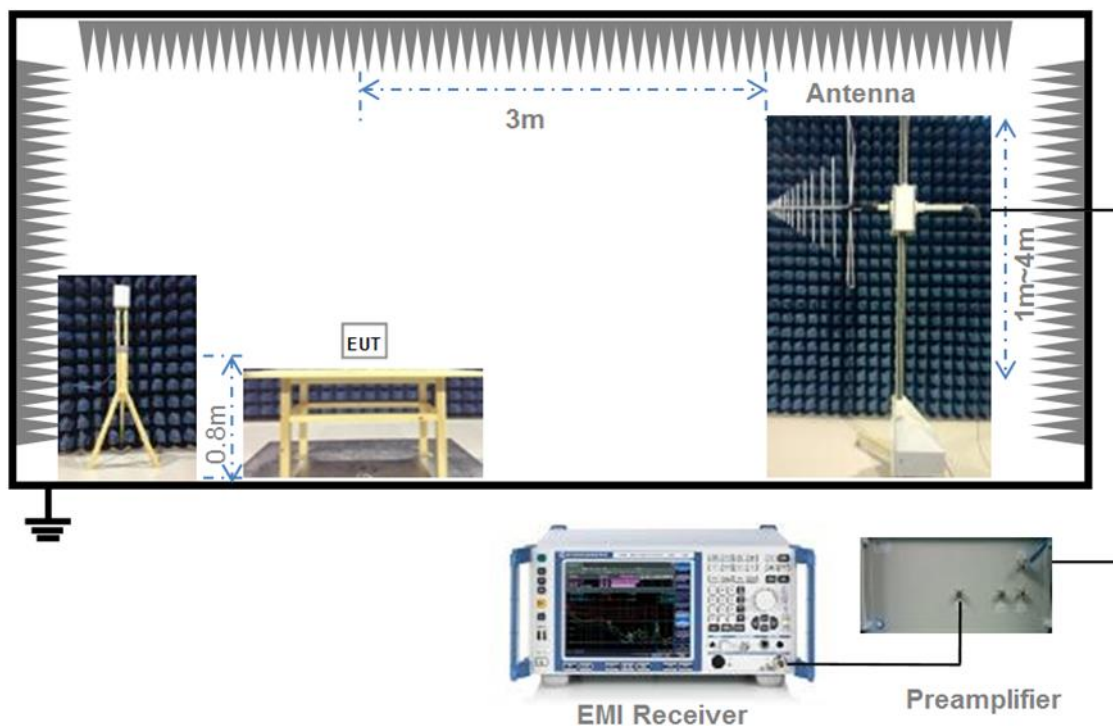
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



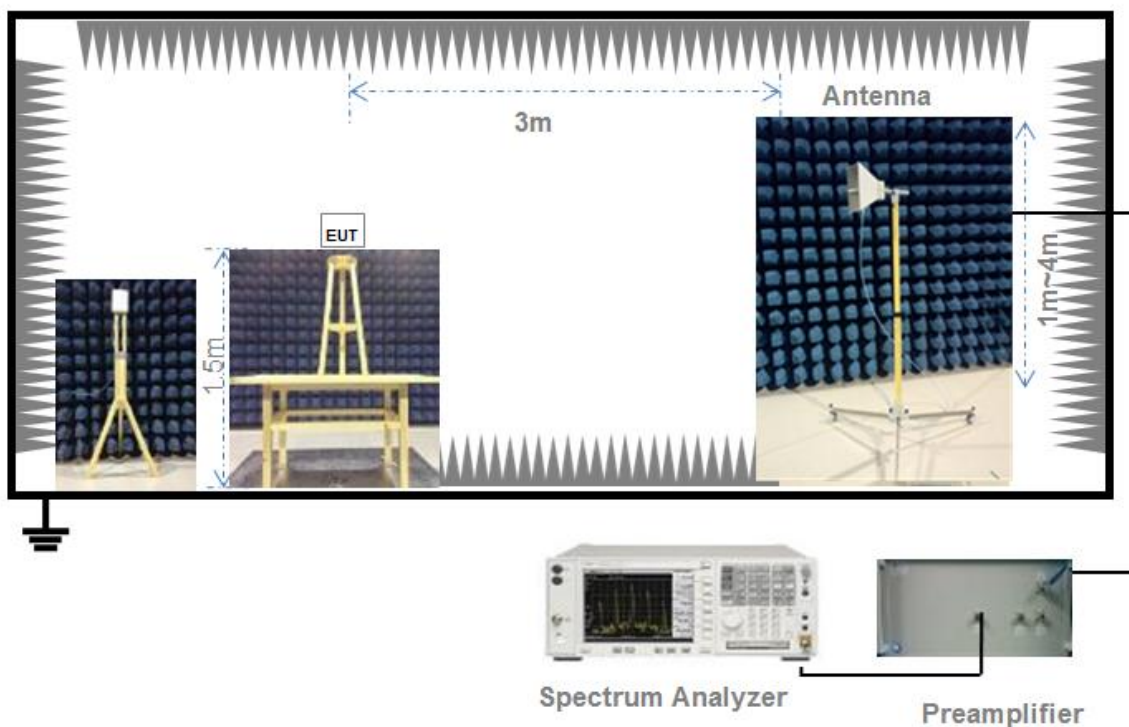
(Diagram 3)

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.	

RSS-247, 6.2

The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
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 99% emissions bandwidth in MHz.	

The maximum e.i.r.p. shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	200 mW or 10 dBm + 10log B, whichever is less.
5250-5350	1W or 17 dBm + 10log B, whichever is less.
5470-5725	1W or 17 dBm + 10log B, whichever is less.
5725-5850	N/A
Note1: Where “B” is the 99% emissions bandwidth in MHz.	
Note2: EIRP= maximum conducted output power+ Antenna Gain.	

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 $\geq$ 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), RSS-247, 6.2

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

RSS-247, 6.2

The maximum power spectral density should not exceed:

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

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

Frequency Band (MHz)	Limit
5150-5250	10 dBm/MHz
5250-5350	N/A
5470-5725	N/A
5725-5850	N/A
e.i.r.p. spectral density= maximum power spectral density+ Antenna Gain.	

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, RSS-GEN, 8.8

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)

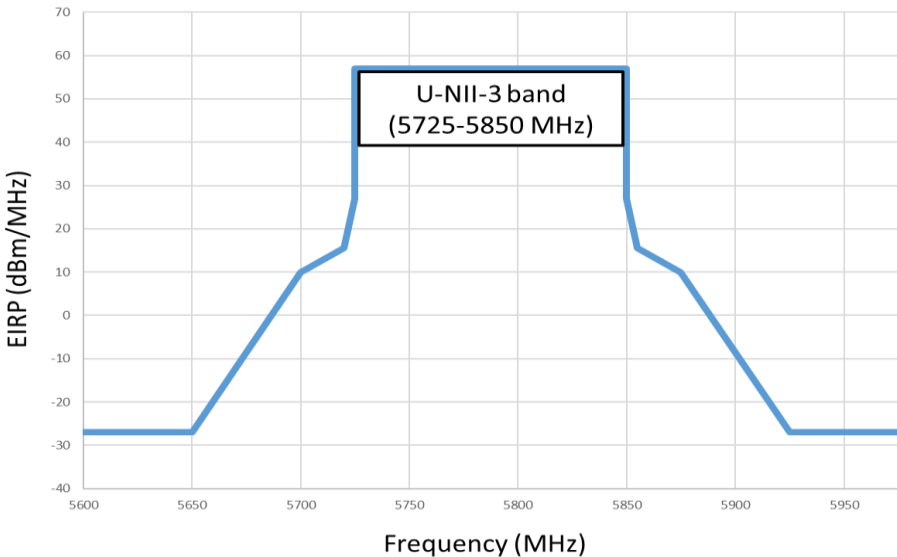
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

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

Note ²: For IC standard, the U-NII-3 (5725 - 5850 MHz) maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	2.20	2.24	98.08%	0.08
11n (HT20)	2.05	2.09	98.08%	0.08

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)						
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	IC Limit (mW)	Verdict
11a	CH36	15.87	38.64	250	N/A	Pass
11a	CH44	16.58	45.50	250	N/A	Pass
11a	CH48	17.42	55.21	250	N/A	Pass
11n (HT20)	CH36	16.70	46.77	250	N/A	Pass
11n (HT20)	CH44	17.34	54.20	250	N/A	Pass
11n (HT20)	CH48	17.39	54.83	250	N/A	Pass

U-NII-2A (5250 - 5350 MHz)						
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	IC Limit (mW)	Verdict
11a	CH52	17.21	52.60	250	209	Pass
11a	CH60	17.02	50.35	250	209	Pass
11a	CH64	17.29	53.58	250	209	Pass
11n (HT20)	CH52	17.19	52.36	250	222	Pass
11n (HT20)	CH60	17.45	55.59	250	222	Pass
11n (HT20)	CH64	17.23	52.84	250	223	Pass

U-NII-2C (5470 - 5725 MHz)						
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	IC Limit (mW)	Verdict
11a	CH100	16.93	49.32	250	209	Pass
11a	CH116	17.45	55.59	250	209	Pass
11a	CH140	17.33	54.08	250	209	Pass
11n (HT20)	CH100	16.85	48.42	250	222	Pass
11n (HT20)	CH116	16.99	50.00	250	222	Pass
11n (HT20)	CH140	17.28	53.46	250	223	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC/IC Limit (mW)	Verdict
11a	CH149	17.17	52.12	1000	Pass
11a	CH157	17.25	53.09	1000	Pass
11a	CH165	17.34	54.20	1000	Pass
11n (HT20)	CH149	17.10	51.29	1000	Pass
11n (HT20)	CH157	17.15	51.88	1000	Pass
11n (HT20)	CH165	17.26	53.21	1000	Pass

U-NII-2C straddle channel						
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	IC Limit (mW)	Verdict
11a	CH144	16.84	48.31	203	169	Pass
11n (HT20)	CH144	16.62	45.92	205	175	Pass

U-NII-3 straddle channel					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC/IC Limit (mW)	Verdict
11a	CH144	11.88	15.42	1000	Pass
11n (HT20)	CH144	11.64	14.59	1000	Pass

E.I.R.P

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH36	10.00	10.00	166	Pass
11a	CH44	10.71	11.78	166	Pass
11a	CH48	11.55	14.29	166	Pass
11n (HT20)	CH36	10.83	12.11	177	Pass
11n (HT20)	CH44	11.47	14.03	177	Pass
11n (HT20)	CH48	11.52	14.19	177	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH52	12.15	16.41	833	Pass
11a	CH60	11.96	15.70	833	Pass
11a	CH64	12.23	16.71	833	Pass
11n (HT20)	CH52	12.13	16.33	885	Pass
11n (HT20)	CH60	12.39	17.34	886	Pass
11n (HT20)	CH64	12.17	16.48	886	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH100	12.40	17.38	832	Pass
11a	CH116	12.92	19.59	835	Pass
11a	CH140	12.80	19.05	835	Pass
11n (HT20)	CH100	12.32	17.06	885	Pass
11n (HT20)	CH116	12.46	17.62	888	Pass
11n (HT20)	CH140	12.75	18.84	889	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict	
11a	CH149	11.40	13.80	Pass	
11a	CH157	11.48	14.06	Pass	
11a	CH165	11.57	14.35	Pass	
11n (HT20)	CH149	11.33	13.58	Pass	
11n (HT20)	CH157	11.38	13.74	Pass	
11n (HT20)	CH165	11.49	14.09	Pass	

U-NII-2C straddle channel					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH144	12.31	17.02	672	Pass
11n (HT20)	CH144	12.09	16.18	697	Pass

U-NII-3 straddle channel				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH144	6.11	4.08	Pass
11n (HT20)	CH144	5.87	3.86	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2360975-604 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	21.77	16.63
11a	CH44	21.90	16.62
11a	CH48	21.97	16.62
11n (HT20)	CH36	22.22	17.67
11n (HT20)	CH44	22.16	17.67
11n (HT20)	CH48	22.09	17.67

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	22.22	16.62
11a	CH60	21.97	16.62
11a	CH64	21.98	16.63
11n (HT20)	CH52	22.04	17.67
11n (HT20)	CH60	21.96	17.67
11n (HT20)	CH64	22.34	17.68

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	22.03	16.60
11a	CH116	22.14	16.66
11a	CH140	22.30	16.67
11n (HT20)	CH100	22.08	17.66
11n (HT20)	CH116	22.37	17.71
11n (HT20)	CH140	22.64	17.74

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	21.60	16.65
11a	CH157	22.00	16.65
11a	CH165	22.16	16.70
11n (HT20)	CH149	22.45	17.69
11n (HT20)	CH157	22.55	17.71
11n (HT20)	CH165	22.52	17.73

U-NII-2C straddle channel			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH144	16.10	13.40
11n (HT20)	CH144	16.30	13.90

U-NII-3 straddle channel			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH144	6.30	3.30
11n (HT20)	CH144	6.30	3.90

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2360975-604 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.00	500.00	Pass
11a	CH157	15.90	500.00	Pass
11a	CH165	16.15	500.00	Pass
11n (HT20)	CH149	16.15	500.00	Pass
11n (HT20)	CH157	15.45	500.00	Pass
11n (HT20)	CH165	16.65	500.00	Pass

U-NII-3 straddle channel				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH144	12.10	500.00	Pass
11n (HT20)	CH144	12.65	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2360975-604 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	4.60	11.00	Pass
11a	CH44	5.51	11.00	Pass
11a	CH48	5.77	11.00	Pass
11n (HT20)	CH36	5.28	11.00	Pass
11n (HT20)	CH44	5.56	11.00	Pass
11n (HT20)	CH48	5.53	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	5.63	11.00	Pass
11a	CH60	5.34	11.00	Pass
11a	CH64	5.86	11.00	Pass
11n (HT20)	CH52	5.27	11.00	Pass
11n (HT20)	CH60	5.53	11.00	Pass
11n (HT20)	CH64	5.41	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	6.20	11.00	Pass
11a	CH116	6.77	11.00	Pass
11a	CH140	6.55	11.00	Pass
11n (HT20)	CH100	5.91	11.00	Pass
11n (HT20)	CH116	5.92	11.00	Pass
11n (HT20)	CH140	6.41	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	3.57	30.00	Pass
11a	CH157	3.38	30.00	Pass
11a	CH165	3.50	30.00	Pass
11n (HT20)	CH149	3.15	30.00	Pass
11n (HT20)	CH157	2.97	30.00	Pass
11n (HT20)	CH165	3.21	30.00	Pass

U-NII-2C straddle channel				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH144	6.75	11.00	Pass
11n (HT20)	CH144	6.39	11.00	Pass

U-NII-3 straddle channel				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH144	4.04	30.00	Pass
11n (HT20)	CH144	3.72	30.00	Pass

E.I.R.P PSD

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	E.I.R.P Limit (dBm/MHz)	Verdict
11a	CH36	-1.27	10.00	Pass
11a	CH44	-0.36	10.00	Pass
11a	CH48	-0.10	10.00	Pass
11n (HT20)	CH36	-0.60	10.00	Pass
11n (HT20)	CH44	-0.31	10.00	Pass
11n (HT20)	CH48	-0.34	10.00	Pass

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH52	0.57	Pass
11a	CH60	0.28	Pass
11a	CH64	0.80	Pass
11n (HT20)	CH52	0.21	Pass
11n (HT20)	CH60	0.47	Pass
11n (HT20)	CH64	0.35	Pass

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH100	1.67	Pass
11a	CH116	2.24	Pass
11a	CH140	2.02	Pass
11n (HT20)	CH100	1.38	Pass
11n (HT20)	CH116	1.39	Pass
11n (HT20)	CH140	1.88	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH149	-2.20	Pass
11a	CH157	-2.39	Pass
11a	CH165	-2.28	Pass
11n (HT20)	CH149	-2.62	Pass
11n (HT20)	CH157	-2.81	Pass
11n (HT20)	CH165	-2.56	Pass

U-NII-2C straddle channel			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH144	2.22	Pass
11n (HT20)	CH144	1.86	Pass

U-NII-3 straddle channel			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH144	-1.74	Pass
11n (HT20)	CH144	-2.05	Pass

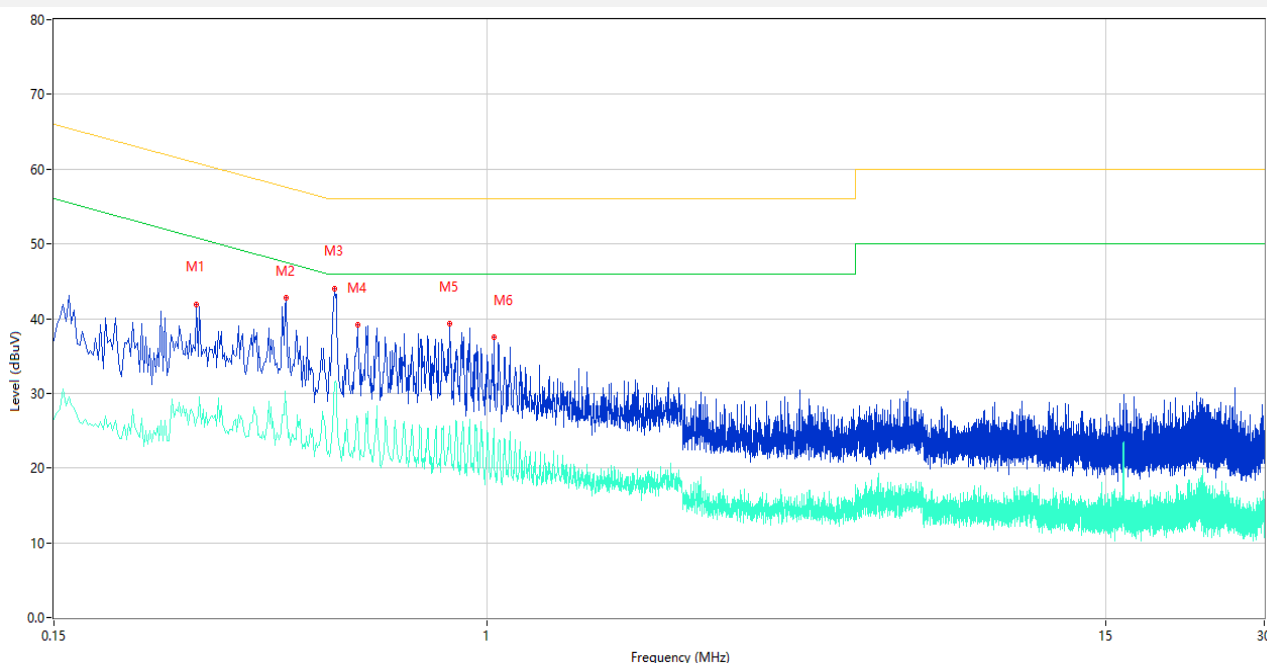
A.5 Conducted Emissions

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

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

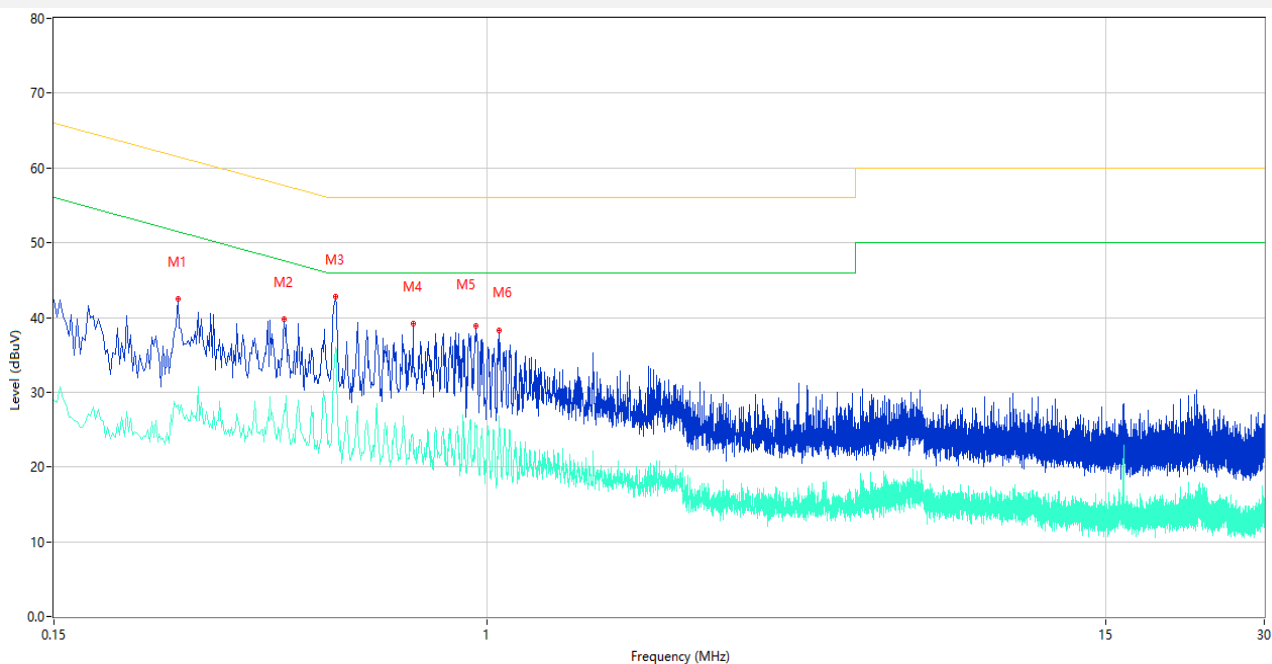
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.280	41.96	9.43	60.82	18.86	Peak	L	Pass
1**	0.280	26.37	9.43	50.82	24.45	AV	L	Pass
2	0.414	42.74	9.99	57.57	14.83	Peak	L	Pass
2**	0.414	27.85	9.99	47.57	19.72	AV	L	Pass
3	0.512	44.05	9.71	56.00	11.95	Peak	L	Pass
3**	0.512	31.54	9.71	46.00	14.46	AV	L	Pass
4	0.566	39.10	9.88	56.00	16.90	Peak	L	Pass
4**	0.566	26.71	9.88	46.00	19.29	AV	L	Pass
5	0.848	39.34	9.94	56.00	16.66	Peak	L	Pass
5**	0.848	25.57	9.94	46.00	20.43	AV	L	Pass
6	1.030	37.58	9.48	56.00	18.42	Peak	L	Pass
6**	1.030	23.79	9.48	46.00	22.21	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.258	42.51	9.43	61.50	18.99	Peak	N	Pass
1**	0.258	28.26	9.43	51.50	23.24	AV	N	Pass
2	0.410	39.76	9.99	57.65	17.89	Peak	N	Pass
2**	0.410	27.53	9.99	47.65	20.12	AV	N	Pass
3	0.514	42.76	9.72	56.00	13.24	Peak	N	Pass
3**	0.514	36.08	9.72	46.00	9.92	AV	N	Pass
4	0.722	39.20	9.76	56.00	16.80	Peak	N	Pass
4**	0.722	23.58	9.76	46.00	22.42	AV	N	Pass
5	0.950	38.84	10.30	56.00	17.16	Peak	N	Pass
5**	0.950	25.24	10.30	46.00	20.76	AV	N	Pass
6	1.054	38.33	9.44	56.00	17.67	Peak	N	Pass
6**	1.054	24.36	9.44	46.00	21.64	AV	N	Pass

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

Note ¹: The symbol of “--” in the table which means not application.

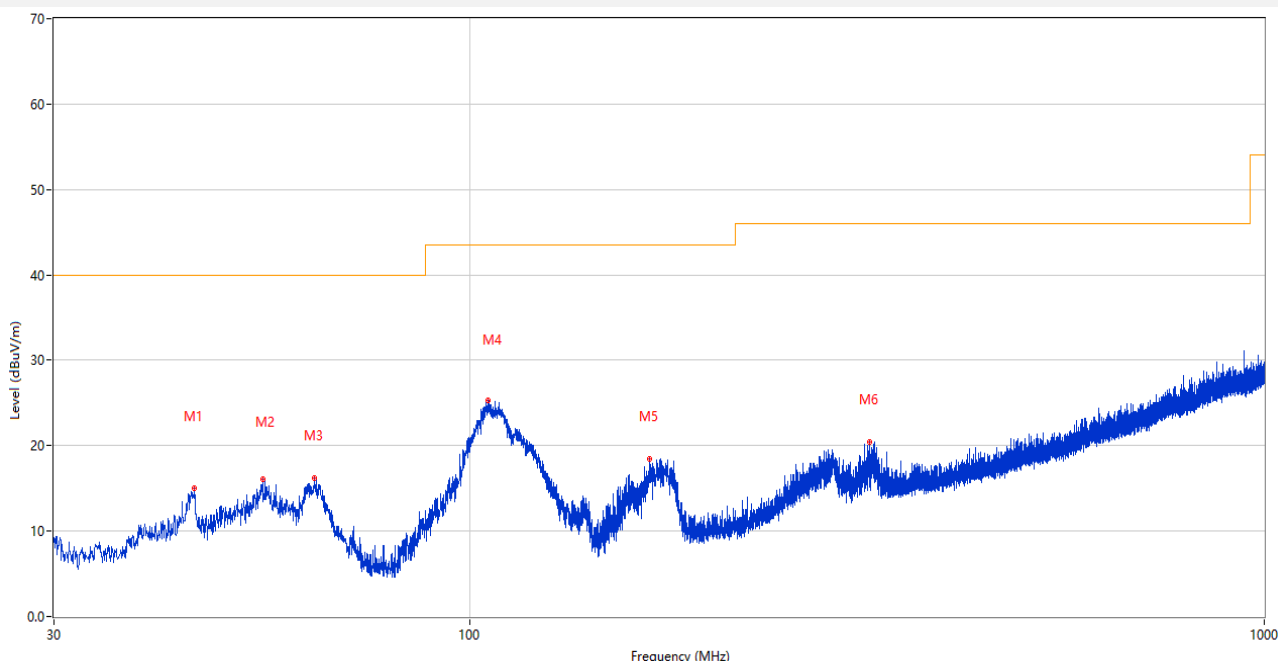
Note ²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

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

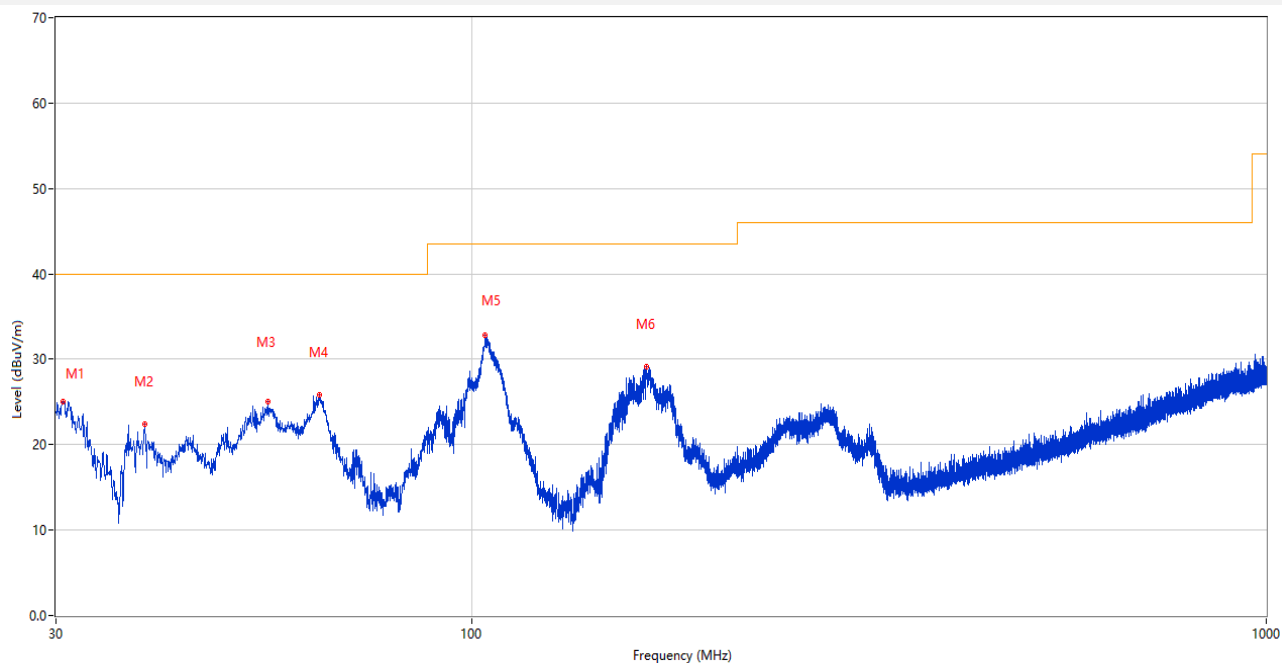
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.084	14.98	-25.53	40.0	25.02	Peak	341.00	100	Horizontal	Pass
2	54.880	16.14	-25.75	40.0	23.86	Peak	9.00	100	Horizontal	Pass
3	63.756	16.19	-27.22	40.0	23.81	Peak	197.00	100	Horizontal	Pass
4	105.612	25.37	-26.48	43.5	18.13	Peak	156.00	200	Horizontal	Pass
5	168.613	18.50	-29.26	43.5	25.00	Peak	41.00	200	Horizontal	Pass
6	318.381	20.40	-23.20	46.0	25.60	Peak	46.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.582	25.02	-29.08	40.0	14.98	Peak	312.00	100	Vertical	Pass
2	38.779	22.44	-27.03	40.0	17.56	Peak	330.00	100	Vertical	Pass
3	55.511	25.02	-25.95	40.0	14.98	Peak	324.00	100	Vertical	Pass
4	64.338	25.80	-27.32	40.0	14.20	Peak	199.00	100	Vertical	Pass
5	104.011	32.82	-26.47	43.5	10.68	Peak	75.00	100	Vertical	Pass
6	165.994	29.12	-29.32	43.5	14.38	Peak	267.00	100	Vertical	Pass

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1544.500	38.99	-17.25	74.0	35.01	Peak	50.00	100	Horizontal	Pass
1**	1544.500	29.92	-17.25	54.0	24.08	AV	50.00	100	Horizontal	Pass
2	4230.400	49.99	-3.83	74.0	24.01	Peak	67.00	300	Horizontal	Pass
2**	4230.400	40.07	-3.83	54.0	13.93	AV	67.00	300	Horizontal	Pass
3	5178.200	90.25	-2.52	--	--	Peak	288.00	200	Horizontal	N/A
3**	5178.200	82.49	-2.52	--	--	AV	288.00	200	Horizontal	N/A
4	7337.525	51.13	-2.90	74.0	22.87	Peak	227.00	100	Horizontal	Pass
4**	7337.525	41.26	-2.90	54.0	12.74	AV	227.00	100	Horizontal	Pass
5	12415.925	53.63	1.41	74.0	20.37	Peak	324.00	200	Horizontal	Pass
5**	12415.925	43.51	1.41	54.0	10.49	AV	324.00	200	Horizontal	Pass
6	15671.099	55.40	1.45	74.0	18.60	Peak	156.00	150	Horizontal	Pass
6**	15671.099	46.40	1.45	54.0	7.60	AV	156.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1165.100	47.03	-17.58	74.0	26.97	Peak	85.00	300	Vertical	Pass
1**	1165.100	33.68	-17.58	54.0	20.32	AV	85.00	300	Vertical	Pass
2	4867.000	52.64	-2.53	74.0	21.36	Peak	125.00	200	Vertical	Pass
2**	4867.000	43.00	-2.53	54.0	11.00	AV	125.00	200	Vertical	Pass
3	5179.000	98.28	-2.54	--	--	Peak	125.00	300	Vertical	N/A
3**	5179.000	91.51	-2.54	--	--	AV	125.00	300	Vertical	N/A
4	6907.600	64.36	0.22	68.2	3.84	Peak	195.00	150	Vertical	Pass
4**	6907.600	56.94	0.22	--	--	AV	195.00	150	Vertical	N/A
5	12323.063	53.40	1.42	74.0	20.60	Peak	269.00	300	Vertical	Pass
5**	12323.063	43.37	1.42	54.0	10.63	AV	269.00	300	Vertical	Pass
6	15840.412	55.90	1.44	74.0	18.10	Peak	165.00	100	Vertical	Pass
6**	15840.412	46.87	1.44	54.0	7.13	AV	165.00	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	1570.800	39.11	-17.01	74.0	34.89	Peak	75.00	300	Horizontal	Pass
1**	1570.800	29.62	-17.01	54.0	24.38	AV	75.00	300	Horizontal	Pass
2	4284.800	50.07	-4.20	74.0	23.93	Peak	27.00	300	Horizontal	Pass
2**	4284.800	39.86	-4.20	54.0	14.14	AV	27.00	300	Horizontal	Pass
3	5218.600	92.64	-2.84	--	--	Peak	249.00	150	Horizontal	N/A
3**	5218.600	84.19	-2.84	--	--	AV	249.00	150	Horizontal	N/A
4	7459.138	49.78	-3.64	74.0	24.22	Peak	50.00	100	Horizontal	Pass
4**	7459.138	40.38	-3.64	54.0	13.62	AV	50.00	100	Horizontal	Pass
5	11639.099	53.25	-0.23	74.0	20.75	Peak	159.00	100	Horizontal	Pass
5**	11639.099	42.44	-0.23	54.0	11.56	AV	159.00	100	Horizontal	Pass
6	15807.075	55.68	2.23	74.0	18.32	Peak	8.00	300	Horizontal	Pass
6**	15807.075	46.33	2.23	54.0	7.67	AV	8.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.600	41.05	-17.09	74.0	32.95	Peak	110.00	300	Vertical	Pass
1**	1497.600	30.18	-17.09	54.0	23.82	AV	110.00	300	Vertical	Pass
2	4392.200	49.65	-3.53	74.0	24.35	Peak	79.00	400	Vertical	Pass
2**	4392.200	42.57	-3.53	54.0	11.43	AV	79.00	400	Vertical	Pass
3	5221.200	100.77	-2.69	--	--	Peak	188.00	100	Vertical	N/A
3**	5221.200	93.47	-2.69	--	--	AV	188.00	100	Vertical	N/A
4	6959.000	62.17	-0.43	68.2	6.03	Peak	188.00	150	Vertical	Pass
4**	6959.000	54.35	-0.43	--	--	AV	188.00	150	Vertical	N/A
5	11937.812	52.91	1.69	74.0	21.09	Peak	32.00	150	Vertical	Pass
5**	11937.812	43.55	1.69	54.0	10.45	AV	32.00	150	Vertical	Pass
6	15835.950	56.06	1.45	74.0	17.94	Peak	47.00	100	Vertical	Pass
6**	15835.950	46.23	1.45	54.0	7.77	AV	47.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1503.900	38.91	-16.93	74.0	35.09	Peak	20.00	100	Horizontal	Pass
1**	1503.900	29.79	-16.93	54.0	24.21	AV	20.00	100	Horizontal	Pass
2	4395.600	49.55	-3.94	74.0	24.45	Peak	360.00	300	Horizontal	Pass
2**	4395.600	40.64	-3.94	54.0	13.36	AV	360.00	300	Horizontal	Pass
3	5237.000	93.06	-2.52	--	--	Peak	65.00	100	Horizontal	N/A
3**	5237.000	84.96	-2.52	--	--	AV	65.00	100	Horizontal	N/A
4	7502.263	49.47	-3.08	74.0	24.53	Peak	7.00	400	Horizontal	Pass
4**	7502.263	39.49	-3.08	54.0	14.51	AV	7.00	400	Horizontal	Pass
5	10919.775	52.56	0.24	74.0	21.44	Peak	7.00	100	Horizontal	Pass
5**	10919.775	41.97	0.24	54.0	12.03	AV	7.00	100	Horizontal	Pass
6	15846.450	55.89	1.36	74.0	18.11	Peak	241.00	400	Horizontal	Pass
6**	15846.450	46.01	1.36	54.0	7.99	AV	241.00	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	1493.100	41.15	-16.88	74.0	32.85	Peak	64.00	200	Vertical	Pass
1**	1493.100	29.60	-16.88	54.0	24.40	AV	64.00	200	Vertical	Pass
2	4394.000	49.87	-3.78	74.0	24.13	Peak	352.00	200	Vertical	Pass
2**	4394.000	40.19	-3.78	54.0	13.81	AV	352.00	200	Vertical	Pass
3	5240.800	102.00	-2.67	--	--	Peak	322.00	150	Vertical	N/A
3**	5240.800	93.82	-2.67	--	--	AV	322.00	150	Vertical	N/A
4	6986.800	64.46	1.67	68.2	3.74	Peak	27.00	150	Vertical	Pass
4**	6986.800	58.13	1.67	--	--	AV	27.00	150	Vertical	N/A
5	6987.000	63.11	1.69	68.2	5.09	Peak	6.00	150	Vertical	Pass
5**	6987.000	59.01	1.69	--	--	AV	6.00	150	Vertical	N/A
6	12235.088	53.14	1.16	74.0	20.86	Peak	330.00	150	Vertical	Pass
6**	12235.088	43.59	1.16	54.0	10.41	AV	330.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1622.300	40.01	-16.90	74.0	33.99	Peak	340.00	400	Horizontal	Pass
1**	1622.300	29.37	-16.90	54.0	24.63	AV	340.00	400	Horizontal	Pass
2	4177.200	50.24	-4.84	74.0	23.76	Peak	178.00	100	Horizontal	Pass
2**	4177.200	39.35	-4.84	54.0	14.65	AV	178.00	100	Horizontal	Pass
3	5172.800	90.53	-2.11	--	--	Peak	271.00	100	Horizontal	N/A
3**	5172.800	82.18	-2.11	--	--	AV	271.00	100	Horizontal	N/A
4	7335.800	48.97	-3.23	74.0	25.03	Peak	51.00	400	Horizontal	Pass
4**	7335.800	40.37	-3.23	54.0	13.63	AV	51.00	400	Horizontal	Pass
5	12280.513	53.19	1.80	74.0	20.81	Peak	276.00	150	Horizontal	Pass
5**	12280.513	44.40	1.80	54.0	9.60	AV	276.00	150	Horizontal	Pass
6	16078.763	55.67	1.62	74.0	18.33	Peak	105.00	400	Horizontal	Pass
6**	16078.763	46.45	1.62	54.0	7.55	AV	105.00	400	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	1495.200	41.19	-16.86	74.0	32.81	Peak	105.00	200	Vertical	Pass
1**	1495.200	30.55	-16.86	54.0	23.45	AV	105.00	200	Vertical	Pass
2	4227.800	49.60	-3.94	74.0	24.40	Peak	5.00	400	Vertical	Pass
2**	4227.800	40.02	-3.94	54.0	13.98	AV	5.00	400	Vertical	Pass
3	5182.600	99.57	-2.57	--	--	Peak	144.00	100	Vertical	N/A
3**	5182.600	91.61	-2.57	--	--	AV	144.00	100	Vertical	N/A
4	6905.600	63.73	0.03	68.2	4.47	Peak	190.00	150	Vertical	Pass
4**	6905.600	57.03	0.03	--	--	AV	190.00	150	Vertical	N/A
5	11945.862	53.61	1.51	74.0	20.39	Peak	343.00	150	Vertical	Pass
5**	11945.862	43.98	1.51	54.0	10.02	AV	343.00	150	Vertical	Pass
6	15994.500	55.97	0.23	74.0	18.03	Peak	257.00	200	Vertical	Pass
6**	15994.500	45.80	0.23	54.0	8.20	AV	257.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.800	41.18	-17.26	74.0	32.82	Peak	191.00	100	Horizontal	Pass
1**	1439.800	29.20	-17.26	54.0	24.80	AV	191.00	100	Horizontal	Pass
2	4383.000	49.62	-3.64	74.0	24.38	Peak	125.00	200	Horizontal	Pass
2**	4383.000	40.78	-3.64	54.0	13.22	AV	125.00	200	Horizontal	Pass
3	5222.200	92.95	-2.70	--	--	Peak	78.00	150	Horizontal	N/A
3**	5222.200	85.79	-2.70	--	--	AV	78.00	150	Horizontal	N/A
4	7333.788	48.97	-3.14	74.0	25.03	Peak	270.00	100	Horizontal	Pass
4**	7333.788	40.39	-3.14	54.0	13.61	AV	270.00	100	Horizontal	Pass
5	12211.800	52.81	1.08	74.0	21.19	Peak	325.00	200	Horizontal	Pass
5**	12211.800	43.09	1.08	54.0	10.91	AV	325.00	200	Horizontal	Pass
6	15807.337	55.41	2.22	74.0	18.59	Peak	182.00	400	Horizontal	Pass
6**	15807.337	47.03	2.22	54.0	6.97	AV	182.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.100	39.72	-16.86	74.0	34.28	Peak	58.00	300	Vertical	Pass
1**	1495.100	31.67	-16.86	54.0	22.33	AV	58.00	300	Vertical	Pass
2	4334.800	49.95	-4.57	74.0	24.05	Peak	261.00	300	Vertical	Pass
2**	4334.800	39.78	-4.57	54.0	14.22	AV	261.00	300	Vertical	Pass
3	5221.000	101.06	-2.71	--	--	Peak	0.00	200	Vertical	N/A
3**	5221.000	93.68	-2.71	--	--	AV	0.00	200	Vertical	N/A
4	6953.200	64.70	-0.31	68.2	3.50	Peak	360.00	150	Vertical	Pass
4**	6953.200	55.34	-0.31	--	--	AV	360.00	150	Vertical	N/A
5	6959.800	63.04	-0.45	68.2	5.16	Peak	20.00	150	Vertical	Pass
5**	6959.800	58.00	-0.45	--	--	AV	20.00	150	Vertical	N/A
6	12246.587	52.68	0.99	74.0	21.32	Peak	37.00	100	Vertical	Pass
6**	12246.587	44.26	0.99	54.0	9.74	AV	37.00	100	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	1587.300	39.07	-17.00	74.0	34.93	Peak	219.00	300	Horizontal	Pass
1**	1587.300	29.24	-17.00	54.0	24.76	AV	219.00	300	Horizontal	Pass
2	4343.200	49.40	-3.86	74.0	24.60	Peak	8.00	300	Horizontal	Pass
2**	4343.200	39.62	-3.86	54.0	14.38	AV	8.00	300	Horizontal	Pass
3	5234.000	92.51	-2.83	--	--	Peak	65.00	200	Horizontal	N/A
3**	5234.000	83.96	-2.83	--	--	AV	65.00	200	Horizontal	N/A
4	7337.525	48.90	-2.90	74.0	25.10	Peak	65.00	300	Horizontal	Pass
4**	7337.525	40.66	-2.90	54.0	13.34	AV	65.00	300	Horizontal	Pass
5	12229.913	53.02	1.30	74.0	20.98	Peak	0.00	200	Horizontal	Pass
5**	12229.913	43.44	1.30	54.0	10.56	AV	0.00	200	Horizontal	Pass
6	15858.000	55.14	1.03	74.0	18.86	Peak	288.00	400	Horizontal	Pass
6**	15858.000	46.15	1.03	54.0	7.85	AV	288.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1494.500	41.28	-16.87	74.0	32.72	Peak	272.00	200	Vertical	Pass
1**	1494.500	33.82	-16.87	54.0	20.18	AV	272.00	200	Vertical	Pass
2	4380.400	50.74	-3.39	74.0	23.26	Peak	178.00	300	Vertical	Pass
2**	4380.400	41.08	-3.39	54.0	12.92	AV	178.00	300	Vertical	Pass
3	5236.000	101.42	-2.52	--	--	Peak	347.00	150	Vertical	Pass
3**	5236.000	94.00	-2.52	--	--	AV	347.00	150	Vertical	N/A
4	6986.800	65.06	1.67	68.2	3.14	Peak	20.00	150	Vertical	Pass
4**	6986.800	59.38	1.67	--	--	AV	20.00	150	Vertical	N/A
5	12275.049	52.96	1.62	74.0	21.04	Peak	325.00	100	Vertical	Pass
5**	12275.049	43.66	1.62	54.0	10.34	AV	325.00	100	Vertical	Pass
6	15835.425	55.51	1.45	74.0	18.49	Peak	143.00	400	Vertical	Pass
6**	15835.425	46.46	1.45	54.0	7.54	AV	143.00	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	1443.000	38.88	-17.01	74.0	35.12	Peak	136.00	300	Horizontal	Pass
1**	1443.000	29.20	-17.01	54.0	24.80	AV	136.00	300	Horizontal	Pass
2	4398.000	49.54	-4.40	74.0	24.46	Peak	193.00	200	Horizontal	Pass
2**	4398.000	40.37	-4.40	54.0	13.63	AV	193.00	200	Horizontal	Pass
3	5259.400	93.71	-1.76	--	--	Peak	72.00	100	Horizontal	N/A
3**	5259.400	86.84	-1.76	--	--	AV	72.00	100	Horizontal	N/A
4	7340.975	48.90	-3.07	74.0	25.10	Peak	297.00	100	Horizontal	Pass
4**	7340.975	40.57	-3.07	54.0	13.43	AV	297.00	100	Horizontal	Pass
5	11947.588	52.34	1.47	74.0	21.66	Peak	46.00	100	Horizontal	Pass
5**	11947.588	43.05	1.47	54.0	10.95	AV	46.00	100	Horizontal	Pass
6	15845.137	55.36	1.37	74.0	18.64	Peak	169.00	400	Horizontal	Pass
6**	15845.137	46.24	1.37	54.0	7.76	AV	169.00	400	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	1494.600	40.06	-16.87	74.0	33.94	Peak	105.00	400	Vertical	Pass
1**	1494.600	32.22	-16.87	54.0	21.78	AV	105.00	400	Vertical	Pass
2	4381.000	49.63	-3.49	74.0	24.37	Peak	210.00	100	Vertical	Pass
2**	4381.000	40.64	-3.49	54.0	13.36	AV	210.00	100	Vertical	Pass
3	5258.600	102.39	-1.77	--	--	Peak	322.00	200	Vertical	N/A
3**	5258.600	95.77	-1.77	--	--	AV	322.00	200	Vertical	N/A
4	7013.225	63.19	-4.68	68.2	5.01	Peak	344.00	150	Vertical	Pass
4**	7013.225	57.35	-4.68	--	--	AV	344.00	150	Vertical	N/A
5	12213.238	52.73	1.13	74.0	21.27	Peak	0.00	100	Vertical	Pass
5**	12213.238	42.92	1.13	54.0	11.08	AV	0.00	100	Vertical	Pass
6	15795.000	54.99	2.17	74.0	19.01	Peak	239.00	200	Vertical	Pass
6**	15795.000	45.98	2.17	54.0	8.02	AV	239.00	200	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	1495.700	38.69	-16.85	74.0	35.31	Peak	11.00	300	Horizontal	Pass
1**	1495.700	29.48	-16.85	54.0	24.52	AV	11.00	300	Horizontal	Pass
2	4390.800	49.85	-3.35	74.0	24.15	Peak	8.00	100	Horizontal	Pass
2**	4390.800	41.39	-3.35	54.0	12.61	AV	8.00	100	Horizontal	Pass
3	5301.400	94.24	-2.79	--	--	Peak	79.00	150	Horizontal	N/A
3**	5301.400	86.53	-2.79	--	--	AV	79.00	150	Horizontal	N/A
4	7726.513	49.28	-2.48	74.0	24.72	Peak	309.00	300	Horizontal	Pass
4**	7726.513	39.75	-2.48	54.0	14.25	AV	309.00	300	Horizontal	Pass
5	11946.150	52.39	1.51	74.0	21.61	Peak	0.00	150	Horizontal	Pass
5**	11946.150	43.34	1.51	54.0	10.66	AV	0.00	150	Horizontal	Pass
6	15664.012	55.13	1.33	74.0	18.87	Peak	225.00	400	Horizontal	Pass
6**	15664.012	45.95	1.33	54.0	8.05	AV	225.00	400	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	1499.200	40.71	-17.09	74.0	33.29	Peak	256.00	200	Vertical	Pass
1**	1499.200	33.52	-17.09	54.0	20.48	AV	256.00	200	Vertical	Pass
2	4386.400	49.72	-3.29	74.0	24.28	Peak	246.00	300	Vertical	Pass
2**	4386.400	41.07	-3.29	54.0	12.93	AV	246.00	300	Vertical	Pass
3	5297.800	102.32	-2.83	--	--	Peak	351.00	150	Vertical	N/A
3**	5297.800	94.95	-2.83	--	--	AV	351.00	150	Vertical	N/A
4	7065.550	61.79	-4.66	68.2	6.41	Peak	0.00	150	Vertical	Pass
4**	7065.550	53.53	-4.66	--	--	AV	0.00	150	Vertical	N/A
5	12281.662	52.83	1.79	74.0	21.17	Peak	98.00	200	Vertical	Pass
5**	12281.662	43.47	1.79	54.0	10.53	AV	98.00	200	Vertical	Pass
6	15635.401	54.94	1.54	74.0	19.06	Peak	360.00	100	Vertical	Pass
6**	15635.401	45.40	1.54	54.0	8.60	AV	360.00	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	1583.500	38.96	-17.12	74.0	35.04	Peak	70.00	400	Horizontal	Pass
1**	1583.500	29.17	-17.12	54.0	24.83	AV	70.00	400	Horizontal	Pass
2	4008.600	49.22	-4.50	74.0	24.78	Peak	360.00	200	Horizontal	Pass
2**	4008.600	38.83	-4.50	54.0	15.17	AV	360.00	200	Horizontal	Pass
3	5314.600	93.72	-2.35	--	--	Peak	89.00	100	Horizontal	N/A
3**	5314.600	85.08	-2.35	--	--	AV	89.00	100	Horizontal	N/A
4	7446.200	49.23	-3.13	74.0	24.77	Peak	187.00	100	Horizontal	Pass
4**	7446.200	39.93	-3.13	54.0	14.07	AV	187.00	100	Horizontal	Pass
5	12231.638	53.09	1.26	74.0	20.91	Peak	187.00	200	Horizontal	Pass
5**	12231.638	43.38	1.26	54.0	10.62	AV	187.00	200	Horizontal	Pass
6	15838.050	55.06	1.45	74.0	18.94	Peak	196.00	100	Horizontal	Pass
6**	15838.050	46.01	1.45	54.0	7.99	AV	196.00	100	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	1499.400	40.22	-17.05	74.0	33.78	Peak	269.00	300	Vertical	Pass
1**	1499.400	29.11	-17.05	54.0	24.89	AV	269.00	300	Vertical	Pass
2	4392.600	49.14	-3.58	74.0	24.86	Peak	0.00	400	Vertical	Pass
2**	4392.600	41.42	-3.58	54.0	12.58	AV	0.00	400	Vertical	Pass
3	5322.000	102.66	-2.11	--	--	Peak	360.00	200	Vertical	N/A
3**	5322.000	95.00	-2.11	--	--	AV	360.00	200	Vertical	N/A
4	7092.862	59.81	-3.91	68.2	8.39	Peak	347.00	150	Vertical	Pass
4**	7092.862	54.04	-3.91	--	--	AV	347.00	150	Vertical	N/A
5	12305.237	53.03	1.39	74.0	20.97	Peak	63.00	200	Vertical	Pass
5**	12305.237	44.20	1.39	54.0	9.80	AV	63.00	200	Vertical	Pass
6	15629.100	55.12	1.71	74.0	18.88	Peak	189.00	300	Vertical	Pass
6**	15629.100	45.55	1.71	54.0	8.45	AV	189.00	300	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	1489.800	38.44	-16.72	74.0	35.56	Peak	112.00	100	Horizontal	Pass
1**	1489.800	29.18	-16.72	54.0	24.82	AV	112.00	100	Horizontal	Pass
2	4391.200	49.60	-3.40	74.0	24.40	Peak	143.00	100	Horizontal	Pass
2**	4391.200	40.97	-3.40	54.0	13.03	AV	143.00	100	Horizontal	Pass
3	5258.800	94.29	-1.76	--	--	Peak	75.00	100	Horizontal	N/A
3**	5258.800	86.67	-1.76	--	--	AV	75.00	100	Horizontal	N/A
4	7340.400	50.01	-3.01	74.0	23.99	Peak	153.00	200	Horizontal	Pass
4**	7340.400	40.13	-3.01	54.0	13.87	AV	153.00	200	Horizontal	Pass
5	12321.050	52.65	1.42	74.0	21.35	Peak	292.00	150	Horizontal	Pass
5**	12321.050	43.35	1.42	54.0	10.65	AV	292.00	150	Horizontal	Pass
6	15810.750	55.11	2.15	74.0	18.89	Peak	230.00	400	Horizontal	Pass
6**	15810.750	45.08	2.15	54.0	8.92	AV	230.00	400	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	1494.700	40.13	-16.86	74.0	33.87	Peak	254.00	300	Vertical	Pass
1**	1494.700	29.43	-16.86	54.0	24.57	AV	254.00	300	Vertical	Pass
2	4386.200	49.69	-3.27	74.0	24.31	Peak	300.00	200	Vertical	Pass
2**	4386.200	41.13	-3.27	54.0	12.87	AV	300.00	200	Vertical	Pass
3	5260.800	102.10	-1.96	--	--	Peak	313.00	200	Vertical	N/A
3**	5260.800	94.64	-1.96	--	--	AV	313.00	200	Vertical	N/A
4	7012.938	63.46	-4.69	68.2	4.74	Peak	345.00	150	Vertical	Pass
4**	7012.938	56.90	-4.69	--	--	AV	345.00	150	Vertical	N/A
5	12274.763	52.47	1.61	74.0	21.53	Peak	118.00	100	Vertical	Pass
5**	12274.763	43.63	1.61	54.0	10.37	AV	118.00	100	Vertical	Pass
6	16106.588	55.46	0.91	74.0	18.54	Peak	360.00	300	Vertical	Pass
6**	16106.588	45.82	0.91	54.0	8.18	AV	360.00	300	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	1589.300	38.93	-17.17	74.0	35.07	Peak	254.00	300	Horizontal	Pass
1**	1589.300	29.85	-17.17	54.0	24.15	AV	254.00	300	Horizontal	Pass
2	4390.200	49.74	-3.31	74.0	24.26	Peak	130.00	200	Horizontal	Pass
2**	4390.200	41.12	-3.31	54.0	12.88	AV	130.00	200	Horizontal	Pass
3	5299.000	94.59	-2.92	--	--	Peak	78.00	100	Horizontal	N/A
3**	5299.000	86.65	-2.92	--	--	AV	78.00	100	Horizontal	N/A
4	7516.925	48.74	-3.32	74.0	25.26	Peak	0.00	200	Horizontal	Pass
4**	7516.925	39.79	-3.32	54.0	14.21	AV	0.00	200	Horizontal	Pass
5	12264.125	52.68	1.25	74.0	21.32	Peak	282.00	200	Horizontal	Pass
5**	12264.125	43.36	1.25	54.0	10.64	AV	282.00	200	Horizontal	Pass
6	15876.901	55.20	0.34	74.0	18.80	Peak	271.00	400	Horizontal	Pass
6**	15876.901	45.00	0.34	54.0	9.00	AV	271.00	400	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	1495.000	39.27	-16.86	74.0	34.73	Peak	263.00	400	Vertical	Pass
1**	1495.000	29.46	-16.86	54.0	24.54	AV	263.00	400	Vertical	Pass
2	4343.400	49.33	-3.76	74.0	24.67	Peak	327.00	200	Vertical	Pass
2**	4343.400	40.57	-3.76	54.0	13.43	AV	327.00	200	Vertical	Pass
3	5298.800	102.39	-2.90	--	--	Peak	359.00	100	Vertical	N/A
3**	5298.800	94.65	-2.90	--	--	AV	359.00	100	Vertical	N/A
4	7067.275	62.47	-4.52	68.2	5.73	Peak	360.00	150	Vertical	Pass
4**	7067.275	55.81	-4.52	--	--	AV	360.00	150	Vertical	N/A
5	12698.250	52.77	0.84	74.0	21.23	Peak	70.00	200	Vertical	Pass
5**	12698.250	42.89	0.84	54.0	11.11	AV	70.00	200	Vertical	Pass
6	15650.625	56.56	1.18	74.0	17.44	Peak	153.00	200	Vertical	Pass
6**	15650.625	45.57	1.18	54.0	8.43	AV	153.00	200	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	1586.500	39.46	-16.90	74.0	34.54	Peak	142.00	100	Horizontal	Pass
1**	1586.500	29.76	-16.90	54.0	24.24	AV	142.00	100	Horizontal	Pass
2	4388.800	49.57	-3.38	74.0	24.43	Peak	0.00	300	Horizontal	Pass
2**	4388.800	41.26	-3.38	54.0	12.74	AV	0.00	300	Horizontal	Pass
3	5321.200	93.51	-2.32	--	--	Peak	64.00	100	Horizontal	N/A
3**	5321.200	86.65	-2.32	--	--	AV	64.00	100	Horizontal	N/A
4	7726.513	49.10	-2.48	74.0	24.90	Peak	40.00	400	Horizontal	Pass
4**	7726.513	39.55	-2.48	54.0	14.45	AV	40.00	400	Horizontal	Pass
5	11338.662	53.18	0.29	74.0	20.82	Peak	165.00	100	Horizontal	Pass
5**	11338.662	44.02	0.29	54.0	9.98	AV	165.00	100	Horizontal	Pass
6	15398.887	55.58	0.74	74.0	18.42	Peak	39.00	100	Horizontal	Pass
6**	15398.887	45.44	0.74	54.0	8.56	AV	39.00	100	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	1493.500	40.00	-16.88	74.0	34.00	Peak	262.00	400	Vertical	Pass
1**	1493.500	29.87	-16.88	54.0	24.13	AV	262.00	400	Vertical	Pass
2	4391.400	50.64	-3.43	74.0	23.36	Peak	120.00	100	Vertical	Pass
2**	4391.400	41.66	-3.43	54.0	12.34	AV	120.00	100	Vertical	Pass
3	5323.000	102.81	-1.84	--	--	Peak	352.00	200	Vertical	N/A
3**	5323.000	95.00	-1.84	--	--	AV	352.00	200	Vertical	N/A
4	7093.437	60.22	-3.97	68.2	7.98	Peak	6.00	150	Vertical	Pass
4**	7093.437	55.32	-3.97	--	--	AV	6.00	150	Vertical	N/A
5	11341.825	52.86	0.21	74.0	21.14	Peak	346.00	100	Vertical	Pass
5**	11341.825	43.68	0.21	54.0	10.32	AV	346.00	100	Vertical	Pass
6	15796.050	56.41	2.20	74.0	17.59	Peak	241.00	400	Vertical	Pass
6**	15796.050	45.61	2.20	54.0	8.39	AV	241.00	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	1607.800	38.67	-17.49	74.0	35.33	Peak	360.00	400	Horizontal	Pass
1**	1607.800	28.73	-17.49	54.0	25.27	AV	360.00	400	Horizontal	Pass
2	4389.800	49.44	-3.33	74.0	24.56	Peak	49.00	200	Horizontal	Pass
2**	4389.800	42.57	-3.33	54.0	11.43	AV	49.00	200	Horizontal	Pass
3	5498.600	92.78	-1.65	--	--	Peak	191.00	100	Horizontal	N/A
3**	5498.600	85.49	-1.65	--	--	AV	191.00	100	Horizontal	N/A
4	7333.500	52.63	-3.12	74.0	21.37	Peak	72.00	100	Horizontal	Pass
4**	7333.500	46.63	-3.12	54.0	7.37	AV	72.00	100	Horizontal	Pass
5	7333.788	51.70	-3.14	74.0	22.30	Peak	112.00	150	Horizontal	Pass
5**	7333.788	46.89	-3.14	54.0	7.11	AV	112.00	150	Horizontal	Pass
6	12273.901	53.37	1.58	74.0	20.63	Peak	93.00	200	Horizontal	Pass
6**	12273.901	44.32	1.58	54.0	9.68	AV	93.00	200	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	1496.400	41.11	-16.87	74.0	32.89	Peak	274.00	200	Vertical	Pass
1**	1496.400	29.28	-16.87	54.0	24.72	AV	274.00	200	Vertical	Pass
2	4385.600	50.78	-3.36	74.0	23.22	Peak	342.00	200	Vertical	Pass
2**	4385.600	41.03	-3.36	54.0	12.97	AV	342.00	200	Vertical	Pass
3	5498.800	99.66	-1.67	--	--	Peak	152.00	150	Vertical	N/A
3**	5498.800	92.21	-1.67	--	--	AV	152.00	150	Vertical	N/A
4	7333.788	57.53	-3.14	74.0	16.47	Peak	207.00	150	Vertical	Pass
4**	7333.788	50.16	-3.14	54.0	3.84	AV	207.00	150	Vertical	Pass
5	12214.388	53.40	1.16	74.0	20.60	Peak	130.00	150	Vertical	Pass
5**	12214.388	43.10	1.16	54.0	10.90	AV	130.00	150	Vertical	Pass
6	15497.062	56.15	1.09	74.0	17.85	Peak	130.00	400	Vertical	Pass
6**	15497.062	46.18	1.09	54.0	7.82	AV	130.00	400	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	1536.600	38.46	-16.89	74.0	35.54	Peak	204.00	300	Horizontal	Pass
1**	1536.600	29.83	-16.89	54.0	24.17	AV	204.00	300	Horizontal	Pass
2	4378.400	49.81	-3.42	74.0	24.19	Peak	68.00	400	Horizontal	Pass
2**	4378.400	40.79	-3.42	54.0	13.21	AV	68.00	400	Horizontal	Pass
3	5579.000	95.47	-1.62	--	--	Peak	33.00	100	Horizontal	N/A
3**	5579.000	87.61	-1.62	--	--	AV	33.00	100	Horizontal	N/A
4	7440.163	52.33	-3.51	74.0	21.67	Peak	251.00	200	Horizontal	Pass
4**	7440.163	46.09	-3.51	54.0	7.91	AV	251.00	200	Horizontal	Pass
5	7440.450	51.12	-3.49	74.0	22.88	Peak	233.00	150	Horizontal	Pass
5**	7440.450	45.67	-3.49	54.0	8.33	AV	233.00	150	Horizontal	Pass
6	12227.037	52.80	1.31	74.0	21.20	Peak	251.00	100	Horizontal	Pass
6**	12227.037	43.51	1.31	54.0	10.49	AV	251.00	100	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	1494.800	40.80	-16.86	74.0	33.20	Peak	252.00	100	Vertical	Pass
1**	1494.800	32.84	-16.86	54.0	21.16	AV	252.00	100	Vertical	Pass
2	4261.000	49.55	-4.58	74.0	24.45	Peak	12.00	100	Vertical	Pass
2**	4261.000	39.09	-4.58	54.0	14.91	AV	12.00	100	Vertical	Pass
3	5578.200	100.81	-1.60	--	--	Peak	12.00	150	Vertical	N/A
3**	5578.200	93.02	-1.60	--	--	AV	12.00	150	Vertical	N/A
4	7439.875	56.89	-3.53	74.0	17.11	Peak	360.00	300	Vertical	Pass
4**	7439.875	50.28	-3.53	54.0	3.72	AV	360.00	300	Vertical	Pass
5	7440.163	56.10	-3.51	74.0	17.90	Peak	0.00	150	Vertical	Pass
5**	7440.163	50.88	-3.51	54.0	3.12	AV	0.00	150	Vertical	Pass
6	12255.500	52.97	0.99	74.0	21.03	Peak	345.00	200	Vertical	Pass
6**	12255.500	43.56	0.99	54.0	10.44	AV	345.00	200	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	1483.900	39.17	-16.87	74.0	34.83	Peak	242.00	400	Horizontal	Pass
1**	1483.900	29.68	-16.87	54.0	24.32	AV	242.00	400	Horizontal	Pass
2	4385.400	49.04	-3.40	74.0	24.96	Peak	356.00	300	Horizontal	Pass
2**	4385.400	40.19	-3.40	54.0	13.81	AV	356.00	300	Horizontal	Pass
3	5702.000	95.63	-1.61	--	--	Peak	54.00	100	Horizontal	N/A
3**	5702.000	87.83	-1.61	--	--	AV	54.00	100	Horizontal	N/A
4	7600.013	52.26	-2.92	74.0	21.74	Peak	222.00	150	Horizontal	Pass
4**	7600.013	46.04	-2.92	54.0	7.96	AV	222.00	150	Horizontal	Pass
5	7600.300	52.57	-2.93	74.0	21.43	Peak	222.00	400	Horizontal	Pass
5**	7600.300	45.39	-2.93	54.0	8.61	AV	222.00	400	Horizontal	Pass
6	15657.450	55.53	1.23	74.0	18.47	Peak	322.00	300	Horizontal	Pass
6**	15657.450	45.68	1.23	54.0	8.32	AV	322.00	300	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	1494.000	40.14	-16.87	74.0	33.86	Peak	255.00	200	Vertical	Pass
1**	1494.000	32.60	-16.87	54.0	21.40	AV	255.00	200	Vertical	Pass
2	4388.000	50.06	-3.39	74.0	23.94	Peak	195.00	400	Vertical	Pass
2**	4388.000	41.17	-3.39	54.0	12.83	AV	195.00	400	Vertical	Pass
3	5699.400	100.49	-0.95	--	--	Peak	351.00	100	Vertical	N/A
3**	5699.400	93.36	-0.95	--	--	AV	351.00	100	Vertical	N/A
4	7599.725	56.53	-2.92	74.0	17.47	Peak	360.00	400	Vertical	Pass
4**	7599.725	49.06	-2.92	54.0	4.94	AV	360.00	400	Vertical	Pass
5	7600.300	56.15	-2.93	74.0	17.85	Peak	360.00	150	Vertical	Pass
5**	7600.300	50.17	-2.93	54.0	3.83	AV	360.00	150	Vertical	Pass
6	11505.125	52.97	-0.08	74.0	21.03	Peak	245.00	150	Vertical	Pass
6**	11505.125	42.83	-0.08	54.0	11.17	AV	245.00	150	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	1490.000	38.73	-16.73	74.0	35.27	Peak	338.00	300	Horizontal	Pass
1**	1490.000	30.05	-16.73	54.0	23.95	AV	338.00	300	Horizontal	Pass
2	3771.400	49.47	-5.14	74.0	24.53	Peak	176.00	300	Horizontal	Pass
2**	3771.400	39.73	-5.14	54.0	14.27	AV	176.00	300	Horizontal	Pass
3	5498.600	92.70	-1.65	--	--	Peak	188.00	100	Horizontal	N/A
3**	5498.600	85.03	-1.65	--	--	AV	188.00	100	Horizontal	N/A
4	7332.925	52.59	-3.17	74.0	21.41	Peak	82.00	100	Horizontal	Pass
4**	7332.925	44.35	-3.17	54.0	9.65	AV	82.00	100	Horizontal	Pass
5	7333.500	51.01	-3.12	74.0	22.99	Peak	64.00	150	Horizontal	Pass
5**	7333.500	47.12	-3.12	54.0	6.88	AV	64.00	150	Horizontal	Pass
6	12674.962	53.46	0.94	74.0	20.54	Peak	282.00	200	Horizontal	Pass
6**	12674.962	42.20	0.94	54.0	11.80	AV	282.00	200	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	1500.000	42.12	-16.94	74.0	31.88	Peak	58.00	400	Vertical	Pass
1**	1500.000	31.53	-16.94	54.0	22.47	AV	58.00	400	Vertical	Pass
2	4390.000	50.90	-3.32	74.0	23.10	Peak	269.00	100	Vertical	Pass
2**	4390.000	41.88	-3.32	54.0	12.12	AV	269.00	100	Vertical	Pass
3	5501.000	99.93	-1.50	--	--	Peak	173.00	100	Vertical	N/A
3**	5501.000	91.93	-1.50	--	--	AV	173.00	100	Vertical	N/A
4	7332.638	56.02	-3.21	74.0	17.98	Peak	200.00	200	Vertical	Pass
4**	7332.638	45.62	-3.21	54.0	8.38	AV	200.00	200	Vertical	Pass
5	7333.500	54.11	-3.12	74.0	19.89	Peak	180.00	150	Vertical	Pass
5**	7333.500	49.78	-3.12	54.0	4.22	AV	180.00	150	Vertical	Pass
6	12428.287	53.88	1.51	74.0	20.12	Peak	328.00	200	Vertical	Pass
6**	12428.287	42.83	1.51	54.0	11.17	AV	328.00	200	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	1512.100	38.98	-17.23	74.0	35.02	Peak	166.00	400	Horizontal	Pass
1**	1512.100	29.67	-17.23	54.0	24.33	AV	166.00	400	Horizontal	Pass
2	4368.000	49.75	-3.85	74.0	24.25	Peak	251.00	300	Horizontal	Pass
2**	4368.000	40.39	-3.85	54.0	13.61	AV	251.00	300	Horizontal	Pass
3	5581.000	92.34	-1.70	--	--	Peak	228.00	200	Horizontal	N/A
3**	5581.000	84.83	-1.70	--	--	AV	228.00	200	Horizontal	N/A
4	7440.163	51.04	-3.51	74.0	22.96	Peak	50.00	150	Horizontal	Pass
4**	7440.163	45.67	-3.51	54.0	8.33	AV	50.00	150	Horizontal	Pass
5	12282.812	53.35	1.79	74.0	20.65	Peak	306.00	200	Horizontal	Pass
5**	12282.812	44.01	1.79	54.0	9.99	AV	306.00	200	Horizontal	Pass
6	15655.349	55.93	1.19	74.0	18.07	Peak	270.00	100	Horizontal	Pass
6**	15655.349	45.46	1.19	54.0	8.54	AV	270.00	100	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	1493.500	40.48	-16.88	74.0	33.52	Peak	259.00	300	Vertical	Pass
1**	1493.500	29.81	-16.88	54.0	24.19	AV	259.00	300	Vertical	Pass
2	4246.600	49.38	-4.60	74.0	24.62	Peak	108.00	200	Vertical	Pass
2**	4246.600	41.38	-4.60	54.0	12.62	AV	108.00	200	Vertical	Pass
3	5580.800	99.10	-1.69	--	--	Peak	186.00	100	Vertical	N/A
3**	5580.800	91.26	-1.69	--	--	AV	186.00	100	Vertical	N/A
4	7439.875	54.32	-3.53	74.0	19.68	Peak	115.00	100	Vertical	Pass
4**	7439.875	46.99	-3.53	54.0	7.01	AV	115.00	100	Vertical	Pass
5	7440.163	53.20	-3.51	74.0	20.80	Peak	168.00	150	Vertical	Pass
5**	7440.163	47.21	-3.51	54.0	6.79	AV	168.00	150	Vertical	Pass
6	15813.638	55.39	2.09	74.0	18.61	Peak	261.00	300	Vertical	Pass
6**	15813.638	46.25	2.09	54.0	7.75	AV	261.00	300	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	1491.700	38.57	-16.86	74.0	35.43	Peak	41.00	300	Horizontal	Pass
1**	1491.700	29.00	-16.86	54.0	25.00	AV	41.00	300	Horizontal	Pass
2	4386.600	49.68	-3.30	74.0	24.32	Peak	339.00	200	Horizontal	Pass
2**	4386.600	40.66	-3.30	54.0	13.34	AV	339.00	200	Horizontal	Pass
3	5701.000	95.67	-1.44	--	--	Peak	49.00	200	Horizontal	N/A
3**	5701.000	88.72	-1.44	--	--	AV	49.00	200	Horizontal	N/A
4	7600.013	52.89	-2.92	74.0	21.11	Peak	222.00	150	Horizontal	Pass
4**	7600.013	46.78	-2.92	54.0	7.22	AV	222.00	150	Horizontal	Pass
5	12327.088	53.09	1.42	74.0	20.91	Peak	277.00	150	Horizontal	Pass
5**	12327.088	43.01	1.42	54.0	10.99	AV	277.00	150	Horizontal	Pass
6	15619.125	55.54	1.61	74.0	18.46	Peak	232.00	400	Horizontal	Pass
6**	15619.125	45.56	1.61	54.0	8.44	AV	232.00	400	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	1557.800	39.41	-17.00	74.0	34.59	Peak	263.00	200	Vertical	Pass
1**	1557.800	30.29	-17.00	54.0	23.71	AV	263.00	200	Vertical	Pass
2	4393.000	49.20	-3.64	74.0	24.80	Peak	350.00	200	Vertical	Pass
2**	4393.000	40.94	-3.64	54.0	13.06	AV	350.00	200	Vertical	Pass
3	5701.200	101.06	-1.50	--	--	Peak	6.00	150	Vertical	N/A
3**	5701.200	93.69	-1.50	--	--	AV	6.00	150	Vertical	N/A
4	7600.013	56.87	-2.92	74.0	17.13	Peak	0.00	150	Vertical	Pass
4**	7600.013	50.00	-2.92	54.0	4.00	AV	0.00	150	Vertical	Pass
5	12226.750	53.41	1.31	74.0	20.59	Peak	166.00	150	Vertical	Pass
5**	12226.750	43.39	1.31	54.0	10.61	AV	166.00	150	Vertical	Pass
6	15801.300	54.86	2.32	74.0	19.14	Peak	186.00	300	Vertical	Pass
6**	15801.300	45.53	2.32	54.0	8.47	AV	186.00	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	1610.800	39.08	-17.06	74.0	34.92	Peak	73.00	100	Horizontal	Pass
1**	1610.800	30.41	-17.06	54.0	23.59	AV	73.00	100	Horizontal	Pass
2	4263.000	49.82	-4.66	74.0	24.18	Peak	58.00	100	Horizontal	Pass
2**	4263.000	39.82	-4.66	54.0	14.18	AV	58.00	100	Horizontal	Pass
3	5741.800	95.72	-2.26	--	--	Peak	58.00	100	Horizontal	N/A
3**	5741.800	87.13	-2.26	--	--	AV	58.00	100	Horizontal	N/A
4	7660.388	50.46	-2.81	74.0	23.54	Peak	310.00	300	Horizontal	Pass
4**	7660.388	43.94	-2.81	54.0	10.06	AV	310.00	300	Horizontal	Pass
5	12229.913	52.61	1.30	74.0	21.39	Peak	245.00	200	Horizontal	Pass
5**	12229.913	43.74	1.30	54.0	10.26	AV	245.00	200	Horizontal	Pass
6	16161.450	55.98	0.96	74.0	18.02	Peak	80.00	300	Horizontal	Pass
6**	16161.450	44.76	0.96	54.0	9.24	AV	80.00	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	1493.700	39.75	-16.88	74.0	34.25	Peak	59.00	300	Vertical	Pass
1**	1493.700	29.63	-16.88	54.0	24.37	AV	59.00	300	Vertical	Pass
2	4387.400	49.85	-3.35	74.0	24.15	Peak	133.00	300	Vertical	Pass
2**	4387.400	41.60	-3.35	54.0	12.40	AV	133.00	300	Vertical	Pass
3	5745.800	100.99	-2.19	--	--	Peak	358.00	200	Vertical	N/A
3**	5745.800	93.47	-2.19	--	--	AV	358.00	200	Vertical	N/A
4	7659.812	55.36	-2.93	74.0	18.64	Peak	301.00	300	Vertical	Pass
4**	7659.812	48.78	-2.93	54.0	5.22	AV	301.00	300	Vertical	Pass
5	7660.100	54.79	-2.87	74.0	19.21	Peak	284.00	150	Vertical	Pass
5**	7660.100	49.53	-2.87	54.0	4.47	AV	284.00	150	Vertical	Pass
6	11507.138	53.02	-0.14	74.0	20.98	Peak	60.00	200	Vertical	Pass
6**	11507.138	42.54	-0.14	54.0	11.46	AV	60.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1563.600	38.68	-17.15	74.0	35.32	Peak	262.00	300	Horizontal	Pass
1**	1563.600	29.98	-17.15	54.0	24.02	AV	262.00	300	Horizontal	Pass
2	4391.800	49.80	-3.48	74.0	24.20	Peak	360.00	200	Horizontal	Pass
2**	4391.800	41.42	-3.48	54.0	12.58	AV	360.00	200	Horizontal	Pass
3	5783.400	94.83	-1.48	--	--	Peak	219.00	100	Horizontal	N/A
3**	5783.400	87.39	-1.48	--	--	AV	219.00	100	Horizontal	N/A
4	7713.000	53.20	-2.31	74.0	20.80	Peak	41.00	400	Horizontal	Pass
4**	7713.000	45.93	-2.31	54.0	8.07	AV	41.00	400	Horizontal	Pass
5	7713.288	52.47	-2.33	74.0	21.53	Peak	41.00	150	Horizontal	Pass
5**	7713.288	46.54	-2.33	54.0	7.46	AV	41.00	150	Horizontal	Pass
6	15841.724	56.17	1.42	74.0	17.83	Peak	291.00	300	Horizontal	Pass
6**	15841.724	47.20	1.42	54.0	6.80	AV	291.00	300	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	1501.400	39.77	-16.94	74.0	34.23	Peak	107.00	100	Vertical	Pass
1**	1501.400	30.48	-16.94	54.0	23.52	AV	107.00	100	Vertical	Pass
2	4298.800	49.57	-4.09	74.0	24.43	Peak	136.00	300	Vertical	Pass
2**	4298.800	40.59	-4.09	54.0	13.41	AV	136.00	300	Vertical	Pass
3	5781.000	99.87	-1.58	--	--	Peak	219.00	200	Vertical	N/A
3**	5781.000	91.47	-1.58	--	--	AV	219.00	200	Vertical	N/A
4	7713.000	55.90	-2.31	74.0	18.10	Peak	104.00	200	Vertical	Pass
4**	7713.000	47.27	-2.31	54.0	6.73	AV	104.00	200	Vertical	Pass
5	7713.575	54.98	-2.35	74.0	19.02	Peak	104.00	150	Vertical	Pass
5**	7713.575	49.93	-2.35	54.0	4.07	AV	104.00	150	Vertical	Pass
6	12272.175	54.61	1.52	74.0	19.39	Peak	7.00	100	Vertical	Pass
6**	12272.175	44.60	1.52	54.0	9.40	AV	7.00	100	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	1485.900	40.30	-16.68	74.0	33.70	Peak	122.00	300	Horizontal	Pass
1**	1485.900	29.46	-16.68	54.0	24.54	AV	122.00	300	Horizontal	Pass
2	4380.200	49.88	-3.35	74.0	24.12	Peak	276.00	300	Horizontal	Pass
2**	4380.200	40.59	-3.35	54.0	13.41	AV	276.00	300	Horizontal	Pass
3	5823.400	95.72	-2.13	--	--	Peak	43.00	100	Horizontal	N/A
3**	5823.400	88.28	-2.13	--	--	AV	43.00	100	Horizontal	N/A
4	7466.612	48.68	-3.31	74.0	25.32	Peak	327.00	400	Horizontal	Pass
4**	7466.612	40.59	-3.31	54.0	13.41	AV	327.00	400	Horizontal	Pass
5	12285.112	52.81	1.77	74.0	21.19	Peak	288.00	200	Horizontal	Pass
5**	12285.112	43.53	1.77	54.0	10.47	AV	288.00	200	Horizontal	Pass
6	15844.612	55.21	1.37	74.0	18.79	Peak	0.00	400	Horizontal	Pass
6**	15844.612	46.25	1.37	54.0	7.75	AV	0.00	400	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	1498.700	39.85	-17.18	74.0	34.15	Peak	83.00	300	Vertical	Pass
1**	1498.700	28.94	-17.18	54.0	25.06	AV	83.00	300	Vertical	Pass
2	4386.400	49.96	-3.29	74.0	24.04	Peak	204.00	100	Vertical	Pass
2**	4386.400	40.61	-3.29	54.0	13.39	AV	204.00	100	Vertical	Pass
3	5826.800	100.31	-2.00	--	--	Peak	20.00	150	Vertical	N/A
3**	5826.800	93.34	-2.00	--	--	AV	20.00	150	Vertical	N/A
4	7766.475	57.69	-3.17	68.2	10.51	Peak	290.00	150	Vertical	Pass
4**	7766.475	50.08	-3.17	--	--	AV	290.00	150	Vertical	N/A
5	7766.762	56.58	-3.17	68.2	11.62	Peak	360.00	150	Vertical	Pass
5**	7766.762	51.41	-3.17	--	--	AV	360.00	150	Vertical	N/A
6	16127.588	55.36	0.91	74.0	18.64	Peak	205.00	100	Vertical	Pass
6**	16127.588	45.03	0.91	54.0	8.97	AV	205.00	100	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	1488.500	38.70	-16.79	74.0	35.30	Peak	161.00	100	Horizontal	Pass
1**	1488.500	29.19	-16.79	54.0	24.81	AV	161.00	100	Horizontal	Pass
2	4378.200	49.51	-3.44	74.0	24.49	Peak	20.00	300	Horizontal	Pass
2**	4378.200	40.63	-3.44	54.0	13.37	AV	20.00	300	Horizontal	Pass
3	5742.400	95.55	-2.21	--	--	Peak	44.00	200	Horizontal	N/A
3**	5742.400	88.05	-2.21	--	--	AV	44.00	200	Horizontal	N/A
4	7660.388	50.66	-2.81	74.0	23.34	Peak	216.00	150	Horizontal	Pass
4**	7660.388	44.03	-2.81	54.0	9.97	AV	216.00	150	Horizontal	Pass
5	12231.063	52.39	1.27	74.0	21.61	Peak	234.00	100	Horizontal	Pass
5**	12231.063	43.56	1.27	54.0	10.44	AV	234.00	100	Horizontal	Pass
6	15853.275	55.14	1.24	74.0	18.86	Peak	360.00	100	Horizontal	Pass
6**	15853.275	46.45	1.24	54.0	7.55	AV	360.00	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	1499.300	39.53	-17.07	74.0	34.47	Peak	94.00	200	Vertical	Pass
1**	1499.300	29.74	-17.07	54.0	24.26	AV	94.00	200	Vertical	Pass
2	4385.400	50.05	-3.40	74.0	23.95	Peak	136.00	100	Vertical	Pass
2**	4385.400	40.46	-3.40	54.0	13.54	AV	136.00	100	Vertical	Pass
3	5743.800	100.81	-2.07	--	--	Peak	349.00	150	Vertical	N/A
3**	5743.800	93.18	-2.07	--	--	AV	349.00	150	Vertical	N/A
4	7659.812	56.23	-2.93	74.0	17.77	Peak	306.00	100	Vertical	Pass
4**	7659.812	48.34	-2.93	54.0	5.66	AV	306.00	100	Vertical	Pass
5	7660.100	55.40	-2.87	74.0	18.60	Peak	288.00	150	Vertical	Pass
5**	7660.100	49.02	-2.87	54.0	4.98	AV	288.00	150	Vertical	Pass
6	12233.650	52.76	1.20	74.0	21.24	Peak	268.00	200	Vertical	Pass
6**	12233.650	44.37	1.20	54.0	9.63	AV	268.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.200	38.88	-17.00	74.0	35.12	Peak	126.00	200	Horizontal	Pass
1**	1584.200	29.36	-17.00	54.0	24.64	AV	126.00	200	Horizontal	Pass
2	4377.200	49.72	-3.65	74.0	24.28	Peak	138.00	100	Horizontal	Pass
2**	4377.200	41.01	-3.65	54.0	12.99	AV	138.00	100	Horizontal	Pass
3	5783.800	95.71	-1.54	--	--	Peak	55.00	150	Horizontal	N/A
3**	5783.800	88.86	-1.54	--	--	AV	55.00	150	Horizontal	N/A
4	7713.288	51.70	-2.33	74.0	22.30	Peak	231.00	150	Horizontal	Pass
4**	7713.288	46.10	-2.33	54.0	7.90	AV	231.00	150	Horizontal	Pass
5	12235.950	52.71	1.14	74.0	21.29	Peak	290.00	100	Horizontal	Pass
5**	12235.950	43.58	1.14	54.0	10.42	AV	290.00	100	Horizontal	Pass
6	16070.625	55.12	1.37	74.0	18.88	Peak	106.00	300	Horizontal	Pass
6**	16070.625	45.11	1.37	54.0	8.89	AV	106.00	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	1500.100	41.44	-16.92	74.0	32.56	Peak	37.00	200	Vertical	Pass
1**	1500.100	30.01	-16.92	54.0	23.99	AV	37.00	200	Vertical	Pass
2	4391.600	49.75	-3.45	74.0	24.25	Peak	94.00	100	Vertical	Pass
2**	4391.600	41.07	-3.45	54.0	12.93	AV	94.00	100	Vertical	Pass
3	5783.600	100.56	-1.51	--	--	Peak	355.00	200	Vertical	N/A
3**	5783.600	93.36	-1.51	--	--	AV	355.00	200	Vertical	N/A
4	7713.000	57.59	-2.31	74.0	16.41	Peak	290.00	300	Vertical	Pass
4**	7713.000	50.64	-2.31	54.0	3.36	AV	290.00	300	Vertical	Pass
5	7713.575	56.16	-2.35	74.0	17.84	Peak	290.00	150	Vertical	Pass
5**	7713.575	50.97	-2.35	54.0	3.03	AV	290.00	150	Vertical	Pass
6	12279.937	52.75	1.80	74.0	21.25	Peak	13.00	200	Vertical	Pass
6**	12279.937	44.36	1.80	54.0	9.64	AV	13.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.200	39.17	-16.90	74.0	34.83	Peak	166.00	200	Horizontal	Pass
1**	1500.200	29.70	-16.90	54.0	24.30	AV	166.00	200	Horizontal	Pass
2	4389.200	49.86	-3.36	74.0	24.14	Peak	0.00	400	Horizontal	Pass
2**	4389.200	41.03	-3.36	54.0	12.97	AV	0.00	400	Horizontal	Pass
3	5827.200	95.76	-1.96	--	--	Peak	32.00	150	Horizontal	N/A
3**	5827.200	87.86	-1.96	--	--	AV	32.00	150	Horizontal	N/A
4	7336.663	49.27	-3.07	74.0	24.73	Peak	0.00	100	Horizontal	Pass
4**	7336.663	40.07	-3.07	54.0	13.93	AV	0.00	100	Horizontal	Pass
5	12074.375	52.57	0.68	74.0	21.43	Peak	52.00	150	Horizontal	Pass
5**	12074.375	41.46	0.68	54.0	12.54	AV	52.00	150	Horizontal	Pass
6	15392.326	55.68	0.61	74.0	18.32	Peak	190.00	400	Horizontal	Pass
6**	15392.326	45.86	0.61	54.0	8.14	AV	190.00	400	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	1496.500	40.33	-16.89	74.0	33.67	Peak	45.00	200	Vertical	Pass
1**	1496.500	29.92	-16.89	54.0	24.08	AV	45.00	200	Vertical	Pass
2	4393.800	49.63	-3.76	74.0	24.37	Peak	0.00	300	Vertical	Pass
2**	4393.800	40.94	-3.76	54.0	13.06	AV	0.00	300	Vertical	Pass
3	5823.600	100.44	-2.13	--	--	Peak	352.00	100	Vertical	N/A
3**	5823.600	93.53	-2.13	--	--	AV	352.00	100	Vertical	N/A
4	7334.075	48.86	-3.17	74.0	25.14	Peak	290.00	300	Vertical	Pass
4**	7334.075	39.58	-3.17	54.0	14.42	AV	290.00	300	Vertical	Pass
5	12281.375	52.85	1.80	74.0	21.15	Peak	106.00	200	Vertical	Pass
5**	12281.375	44.11	1.80	54.0	9.89	AV	106.00	200	Vertical	Pass
6	15639.599	55.16	1.37	74.0	18.84	Peak	187.00	100	Vertical	Pass
6**	15639.599	45.60	1.37	54.0	8.40	AV	187.00	100	Vertical	Pass

11a, U-NII-2C&U-NII-3, 1 GHz to 18 GHz, 144 Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1509.200	50.98	-17.19	74.0	23.02	Peak	47.00	200	Horizontal	Pass
1**	1509.200	29.63	-17.19	54.0	24.37	AV	47.00	200	Horizontal	Pass
2	4327.200	49.49	-4.40	74.0	24.51	Peak	291.00	200	Horizontal	Pass
2**	4327.200	40.41	-4.40	54.0	13.59	AV	291.00	200	Horizontal	Pass
3	5722.800	96.57	-1.54	--	--	Peak	40.00	100	Horizontal	N/A
3**	5722.800	88.22	-1.54	--	--	AV	40.00	100	Horizontal	N/A
4	7627.038	51.49	-2.71	74.0	22.51	Peak	246.00	150	Horizontal	Pass
4**	7627.038	46.36	-2.71	54.0	7.64	AV	246.00	150	Horizontal	Pass
5	7628.475	52.01	-2.91	74.0	21.99	Peak	265.00	100	Horizontal	Pass
5**	7628.475	43.80	-2.91	54.0	10.20	AV	265.00	100	Horizontal	Pass
6	12282.526	53.06	1.79	74.0	20.94	Peak	283.00	150	Horizontal	Pass
6**	12282.526	43.68	1.79	54.0	10.32	AV	283.00	150	Horizontal	Pass

11a, U-NII-2C&U-NII-3, 1 GHz to 18 GHz, 144 Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.200	39.77	-16.86	74.0	34.23	Peak	99.00	400	Vertical	Pass
1**	1495.200	29.45	-16.86	54.0	24.55	AV	99.00	400	Vertical	Pass
2	4286.200	49.48	-4.34	74.0	24.52	Peak	106.00	200	Vertical	Pass
2**	4286.200	39.69	-4.34	54.0	14.31	AV	106.00	200	Vertical	Pass
3	5721.400	101.09	-1.59	--	--	Peak	9.00	150	Vertical	N/A
3**	5721.400	93.52	-1.59	--	--	AV	9.00	150	Vertical	N/A
4	7626.750	58.00	-2.67	74.0	16.00	Peak	308.00	150	Vertical	Pass
4**	7626.750	50.94	-2.67	54.0	3.06	AV	308.00	150	Vertical	Pass
5	11827.125	52.85	1.16	74.0	21.15	Peak	290.00	100	Vertical	Pass
5**	11827.125	42.36	1.16	54.0	11.64	AV	290.00	100	Vertical	Pass
6	15599.700	55.18	1.03	74.0	18.82	Peak	341.00	300	Vertical	Pass
6**	15599.700	45.93	1.03	54.0	8.07	AV	341.00	300	Vertical	Pass

11n20, U-NII-2C&U-NII-3, 1 GHz to 18 GHz, 144 Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1483.000	38.65	-16.97	74.0	35.35	Peak	168.00	100	Horizontal	Pass
1**	1483.000	29.50	-16.97	54.0	24.50	AV	168.00	100	Horizontal	Pass
2	4386.400	49.38	-3.29	74.0	24.62	Peak	0.00	400	Horizontal	Pass
2**	4386.400	40.92	-3.29	54.0	13.08	AV	0.00	400	Horizontal	Pass
3	5721.200	96.63	-1.60	--	--	Peak	38.00	150	Horizontal	N/A
3**	5721.200	88.09	-1.60	--	--	AV	38.00	150	Horizontal	N/A
4	7626.462	51.90	-2.69	74.0	22.10	Peak	269.00	150	Horizontal	Pass
4**	7626.462	45.92	-2.69	54.0	8.08	AV	269.00	150	Horizontal	Pass
5	7627.612	52.64	-2.79	74.0	21.36	Peak	250.00	300	Horizontal	Pass
5**	7627.612	43.86	-2.79	54.0	10.14	AV	250.00	300	Horizontal	Pass
6	12619.187	52.62	1.81	74.0	21.38	Peak	231.00	200	Horizontal	Pass
6**	12619.187	42.85	1.81	54.0	11.15	AV	231.00	200	Horizontal	Pass

11n20, U-NII-2C&U-NII-3, 1 GHz to 18 GHz, 144 Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.400	40.52	-16.85	74.0	33.48	Peak	313.00	400	Vertical	Pass
1**	1495.400	31.47	-16.85	54.0	22.53	AV	313.00	400	Vertical	Pass
2	4387.800	49.75	-3.38	74.0	24.25	Peak	191.00	200	Vertical	Pass
2**	4387.800	40.32	-3.38	54.0	13.68	AV	191.00	200	Vertical	Pass
3	5718.800	101.23	-1.53	--	--	Peak	0.00	200	Vertical	N/A
3**	5718.800	93.12	-1.53	--	--	AV	0.00	200	Vertical	N/A
4	7626.750	56.78	-2.67	74.0	17.22	Peak	360.00	150	Vertical	Pass
4**	7626.750	50.19	-2.67	54.0	3.81	AV	360.00	150	Vertical	Pass
5	12263.262	53.07	1.22	74.0	20.93	Peak	318.00	200	Vertical	Pass
5**	12263.262	43.72	1.22	54.0	10.28	AV	318.00	200	Vertical	Pass
6	15634.088	55.16	1.58	74.0	18.84	Peak	0.00	200	Vertical	Pass
6**	15634.088	45.02	1.58	54.0	8.98	AV	0.00	200	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

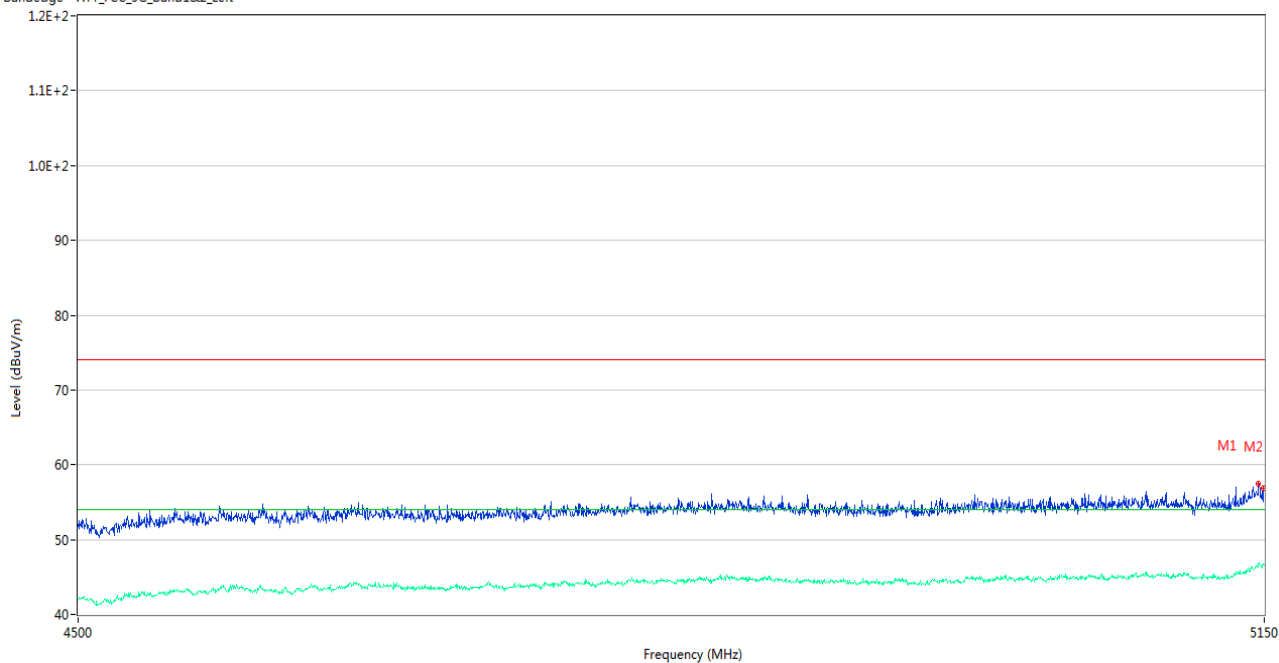
Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
U-NII-2A	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
U-NII-2C	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)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

Test Band	Mode	Channel	Verdict
U-NII-2C & U-NII-3	802.11a	144	Pass
	802.11n(HT20)	144	Pass

Test Data and Plots

U-NII-1 11a Low Channel

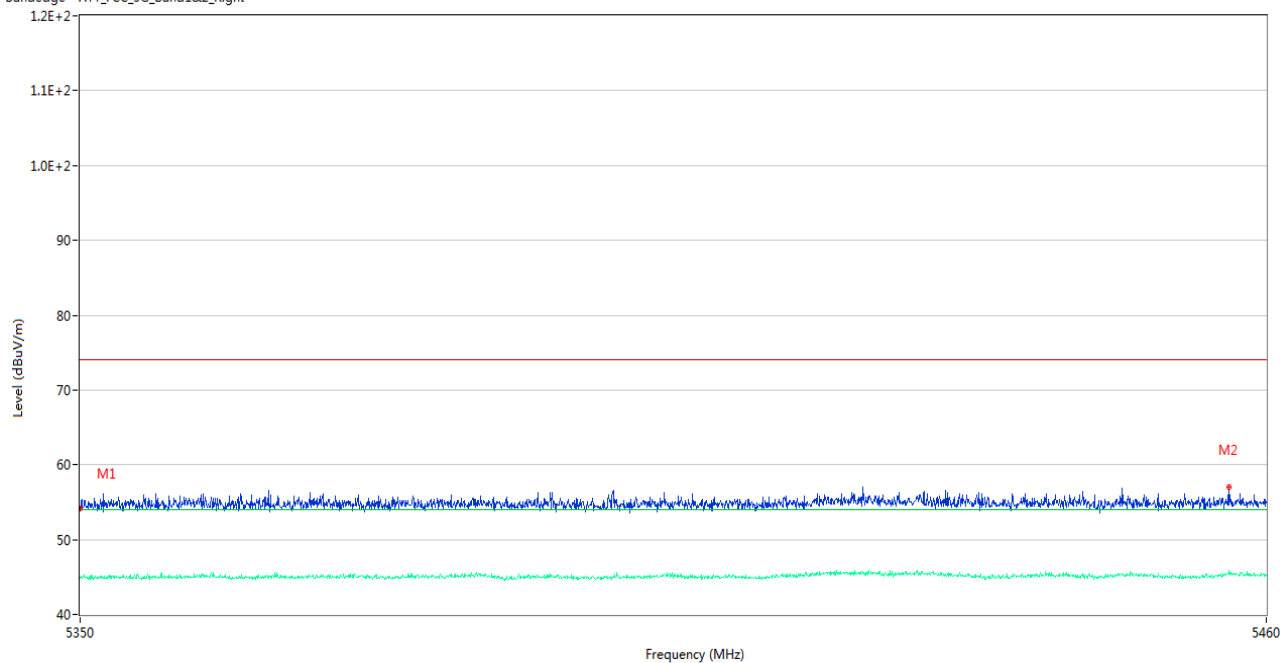
Bandedge - ATT_FCC_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5146.750	57.44	2.29	74.0	16.56	Peak	313.00	200	Vertical	Pass
1**	5146.750	46.64	2.29	54.0	7.36	AV	313.00	200	Vertical	Pass
2	5149.675	56.89	2.07	74.0	17.11	Peak	0.00	200	Vertical	Pass
2**	5149.675	46.61	2.07	54.0	7.39	AV	0.00	200	Vertical	Pass

U-NII-1 11a High Channel

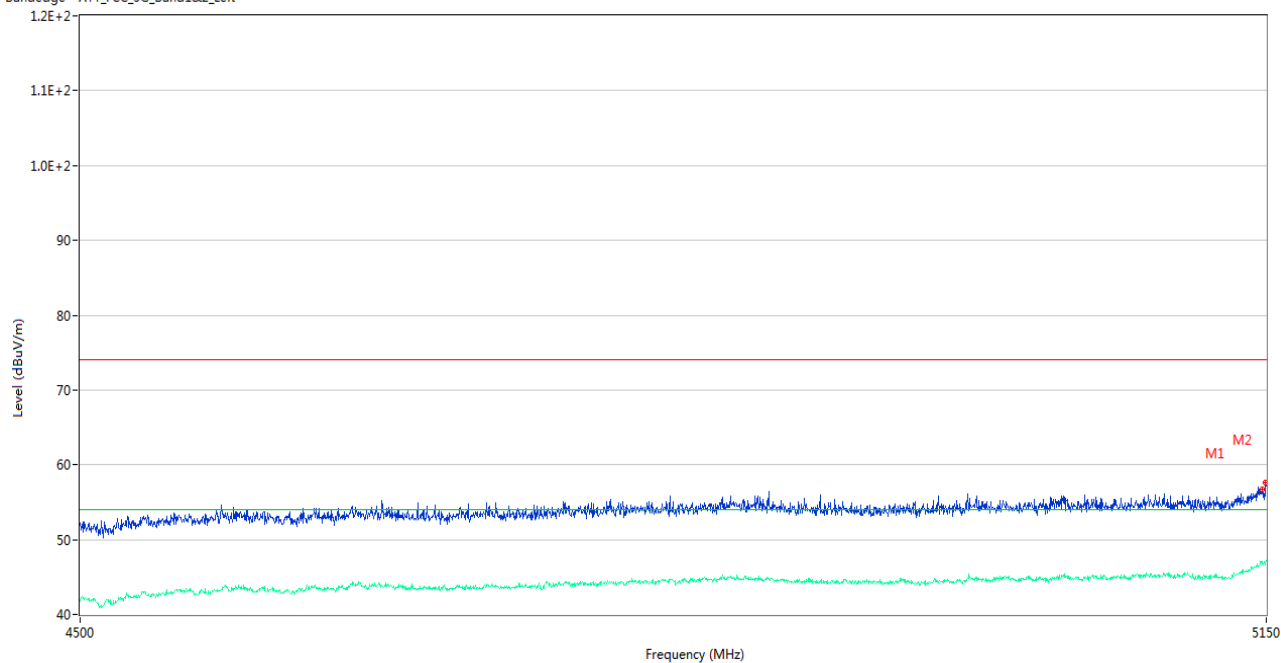
Bandedge - ATT_FCC_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.15	1.93	74.0	19.85	Peak	62.00	100	Vertical	Pass
1**	5350.000	44.76	1.93	54.0	9.24	AV	62.00	100	Vertical	Pass
2	5456.480	57.06	2.45	74.0	16.94	Peak	338.00	150	Vertical	Pass
2**	5456.480	45.43	2.45	54.0	8.57	AV	338.00	150	Vertical	Pass

U-NII-1 11n20 Low Channel

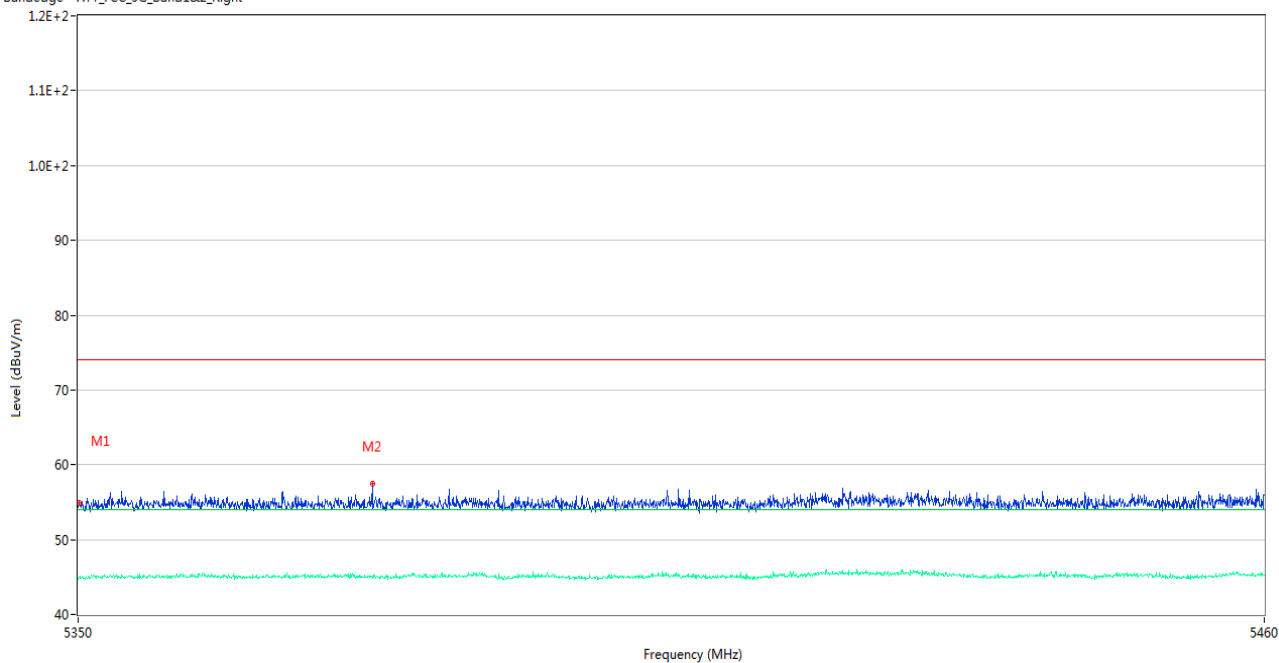
Bandedge - ATT_FCC_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.400	56.75	2.23	74.0	17.25	Peak	21.00	150	Vertical	Pass
1**	5147.400	46.71	2.23	54.0	7.29	AV	21.00	150	Vertical	Pass
2	5149.675	57.58	2.07	74.0	16.42	Peak	2.00	100	Vertical	Pass
2**	5149.675	46.70	2.07	54.0	7.30	AV	2.00	100	Vertical	Pass

U-NII-1 11n20 High Channel

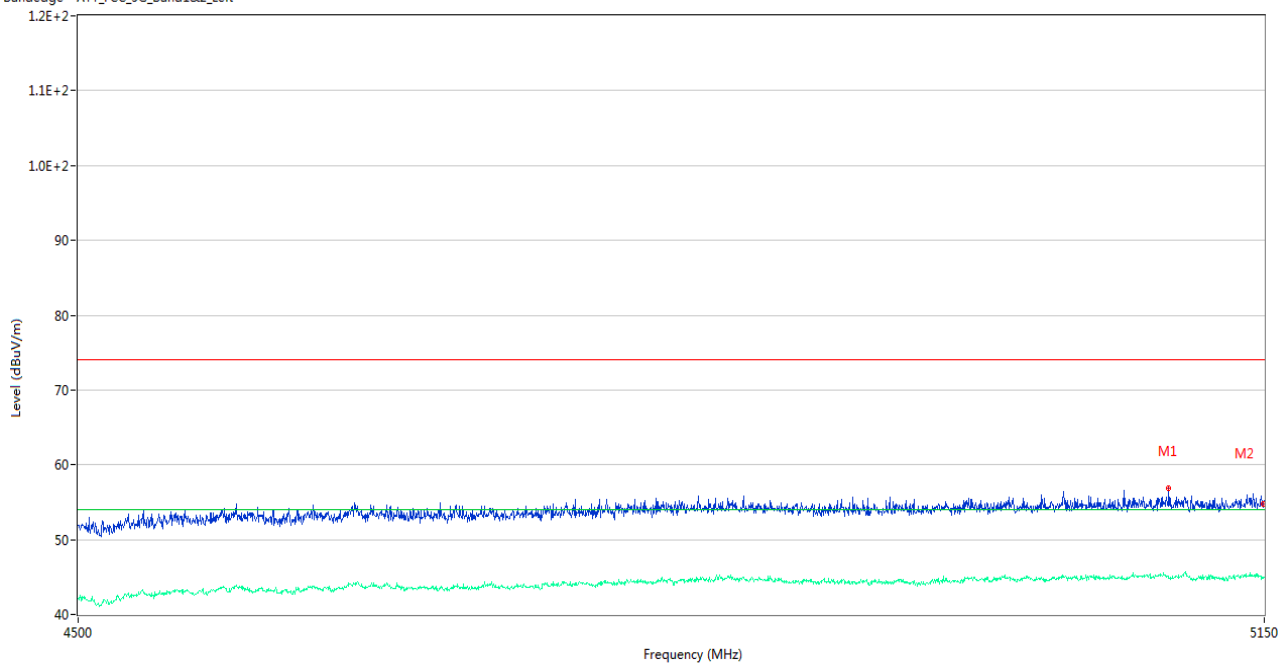
Bandedge - ATT_FCC_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	54.94	1.93	74.0	19.06	Peak	223.00	150	Vertical	Pass
1**	5350.055	44.93	1.93	54.0	9.07	AV	223.00	150	Vertical	Pass
2	5377.060	57.46	2.16	74.0	16.54	Peak	277.00	200	Vertical	Pass
2**	5377.060	45.11	2.16	54.0	8.89	AV	277.00	200	Vertical	Pass

U-NII-2A 11a Low Channel

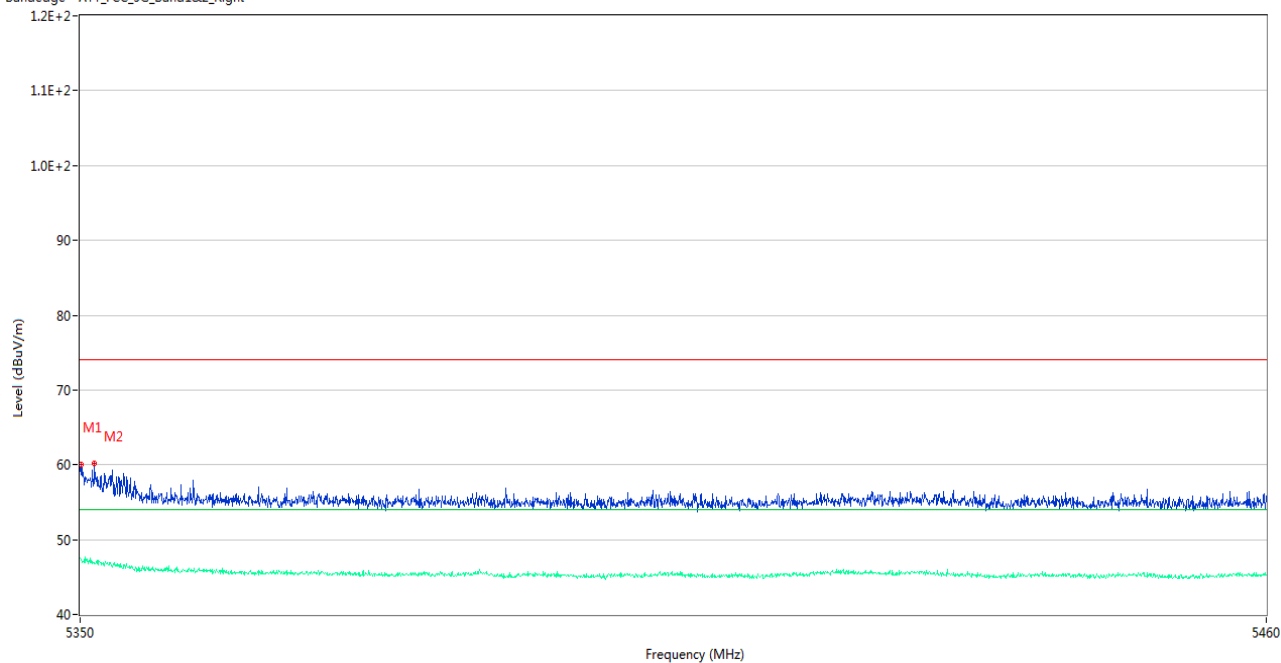
Bandedge - ATT_FCC_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5094.425	56.84	2.19	74.0	17.16	Peak	71.00	200	Vertical	Pass
1**	5094.425	44.80	2.19	54.0	9.20	AV	71.00	200	Vertical	Pass
2	5149.675	54.84	2.07	74.0	19.16	Peak	92.00	100	Vertical	Pass
2**	5149.675	45.02	2.07	54.0	8.98	AV	92.00	100	Vertical	Pass

U-NII-2A 11a High Channel

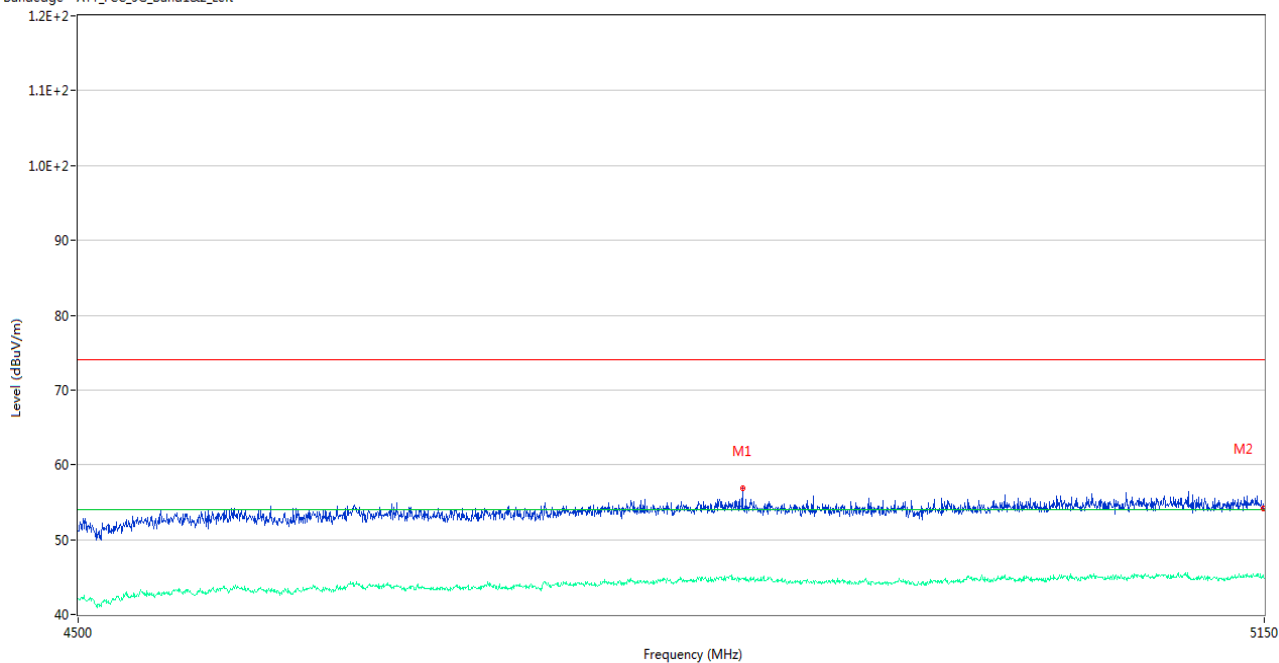
Bandedge - ATT_FCC_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	60.07	1.93	74.0	13.93	Peak	0.00	150	Vertical	Pass
1**	5350.055	47.31	1.93	54.0	6.69	AV	0.00	150	Vertical	Pass
2	5351.320	60.13	1.94	74.0	13.87	Peak	6.00	150	Vertical	Pass
2**	5351.320	46.98	1.94	54.0	7.02	AV	6.00	150	Vertical	Pass

U-NII-2A 11n20 Low Channel

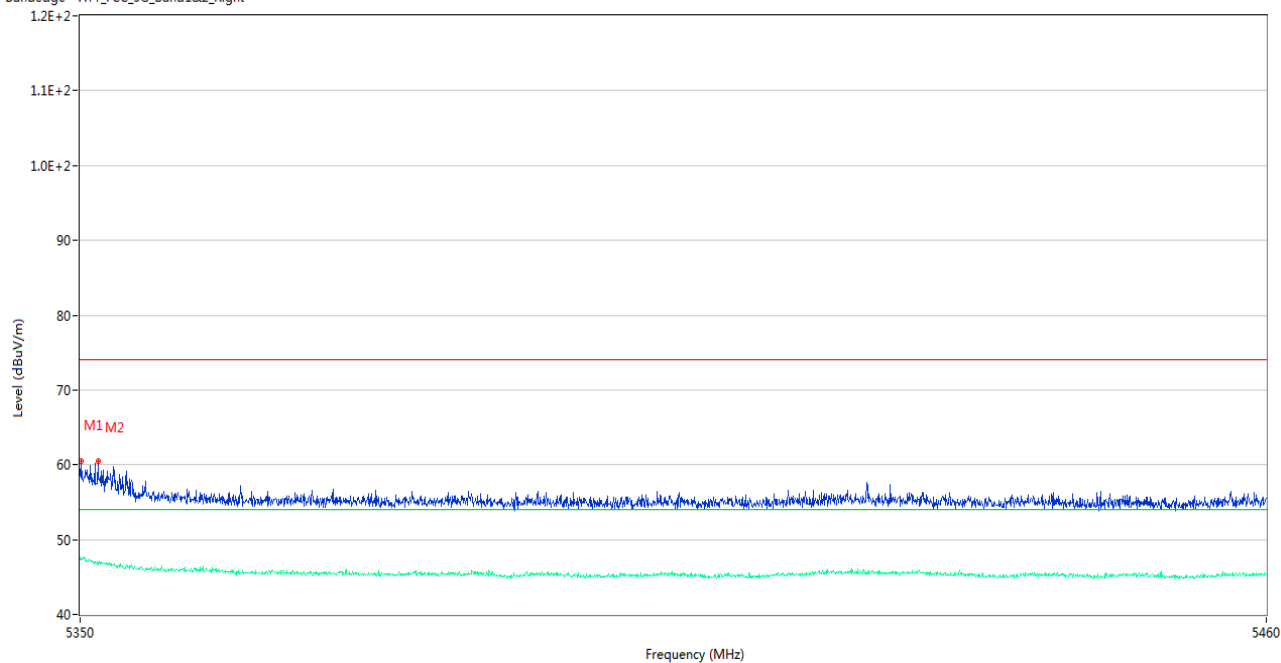
Bandedge - ATT_FCC_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4853.275	56.86	2.08	74.0	17.14	Peak	149.00	200	Vertical	Pass
1**	4853.275	44.88	2.08	54.0	9.12	AV	149.00	200	Vertical	Pass
2	5149.675	54.23	2.07	74.0	19.77	Peak	272.00	100	Vertical	Pass
2**	5149.675	44.97	2.07	54.0	9.03	AV	272.00	100	Vertical	Pass

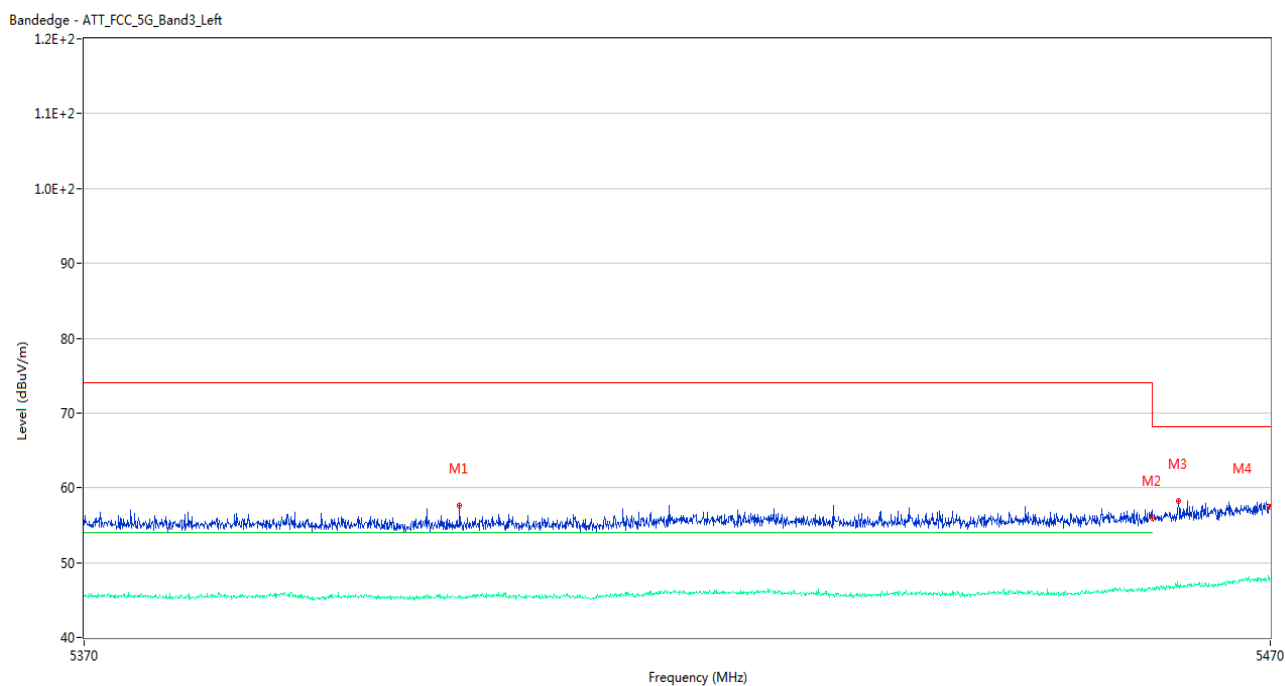
U-NII-2A 11n20 High Channel

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	60.55	1.93	74.0	13.45	Peak	360.00	100	Vertical	Pass
1**	5350.055	47.29	1.93	54.0	6.71	AV	360.00	100	Vertical	Pass
2	5351.650	60.50	1.99	74.0	13.50	Peak	0.00	200	Vertical	Pass
2**	5351.650	46.56	1.99	54.0	7.44	AV	0.00	200	Vertical	Pass

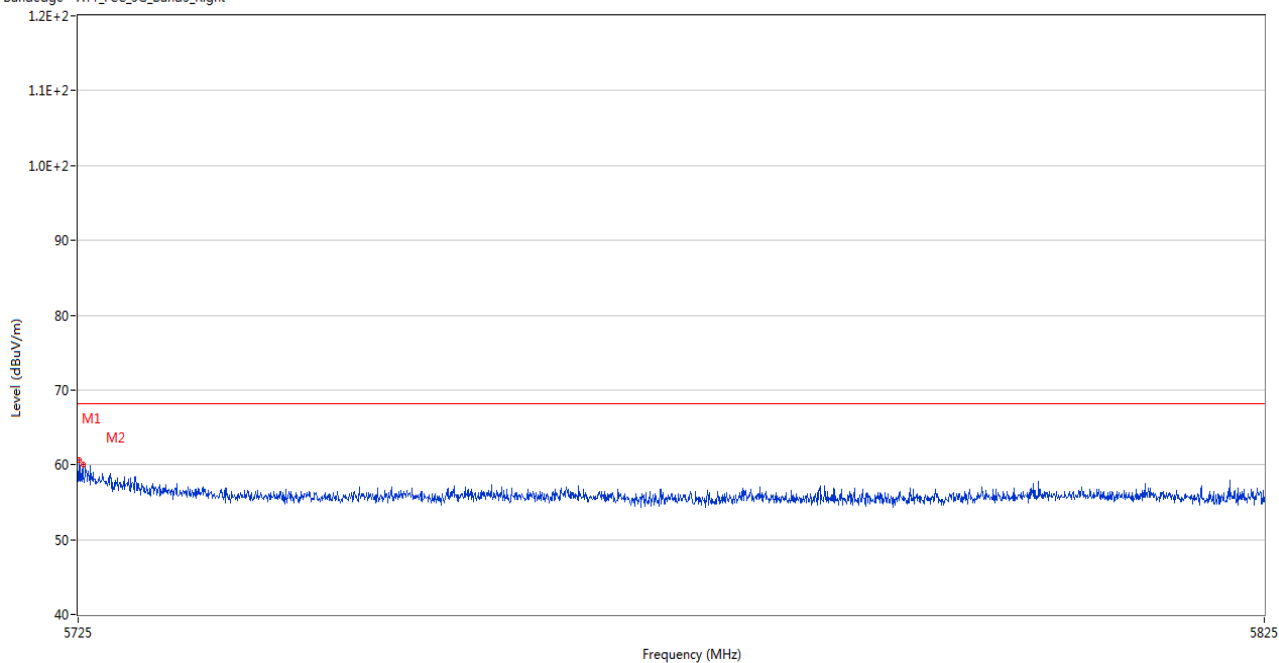
U-NII-2C 11a Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5401.450	57.66	1.95	74.0	16.34	Peak	83.00	100	Vertical	Pass
1**	5401.450	45.40	1.95	54.0	8.60	AV	83.00	100	Vertical	Pass
2	5460.000	56.00	2.50	74.0	18.00	Peak	360.00	150	Vertical	Pass
2**	5460.000	46.68	2.50	54.0	7.32	AV	360.00	150	Vertical	Pass
3	5462.200	58.20	2.74	68.2	10.00	Peak	289.00	200	Vertical	Pass
3**	5462.200	46.92	2.74	--	--	AV	289.00	200	Vertical	N/A
4	5469.950	57.54	2.87	68.2	10.66	Peak	355.00	200	Vertical	Pass
4**	5469.950	47.95	2.87	--	--	AV	355.00	200	Vertical	N/A

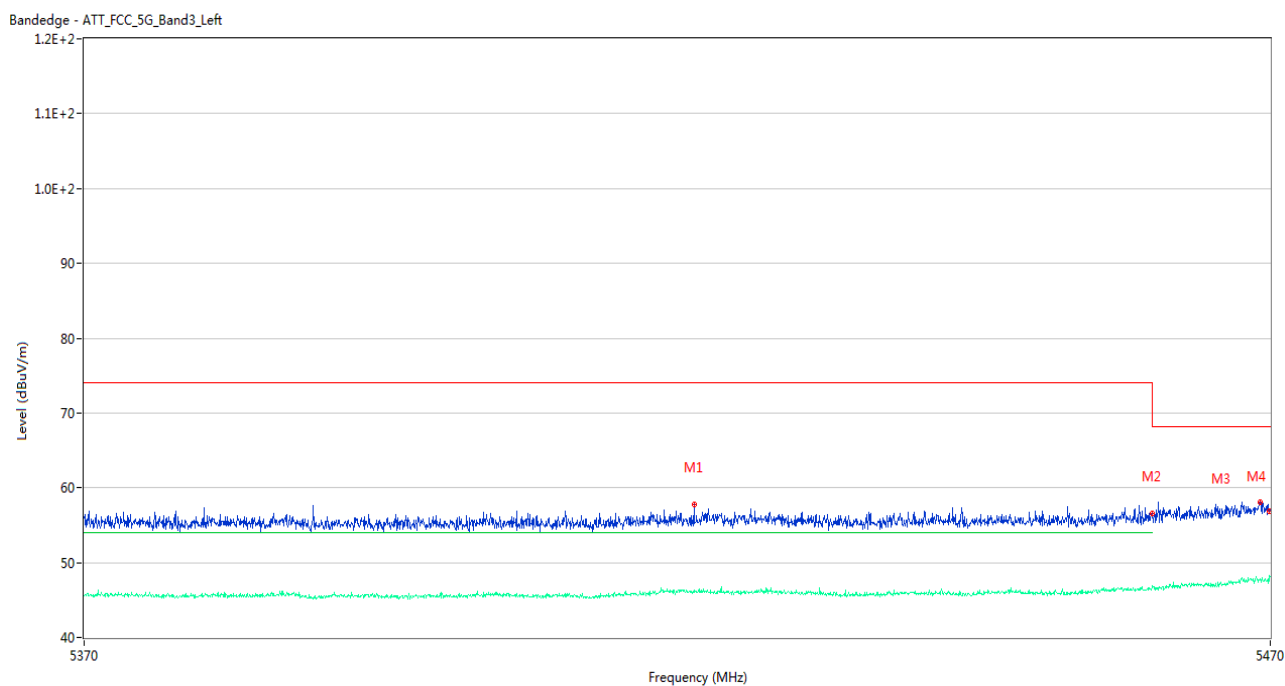
U-NII-2C 11a High Channel

Bandedge - ATT_FCC_5G_Band3_Right



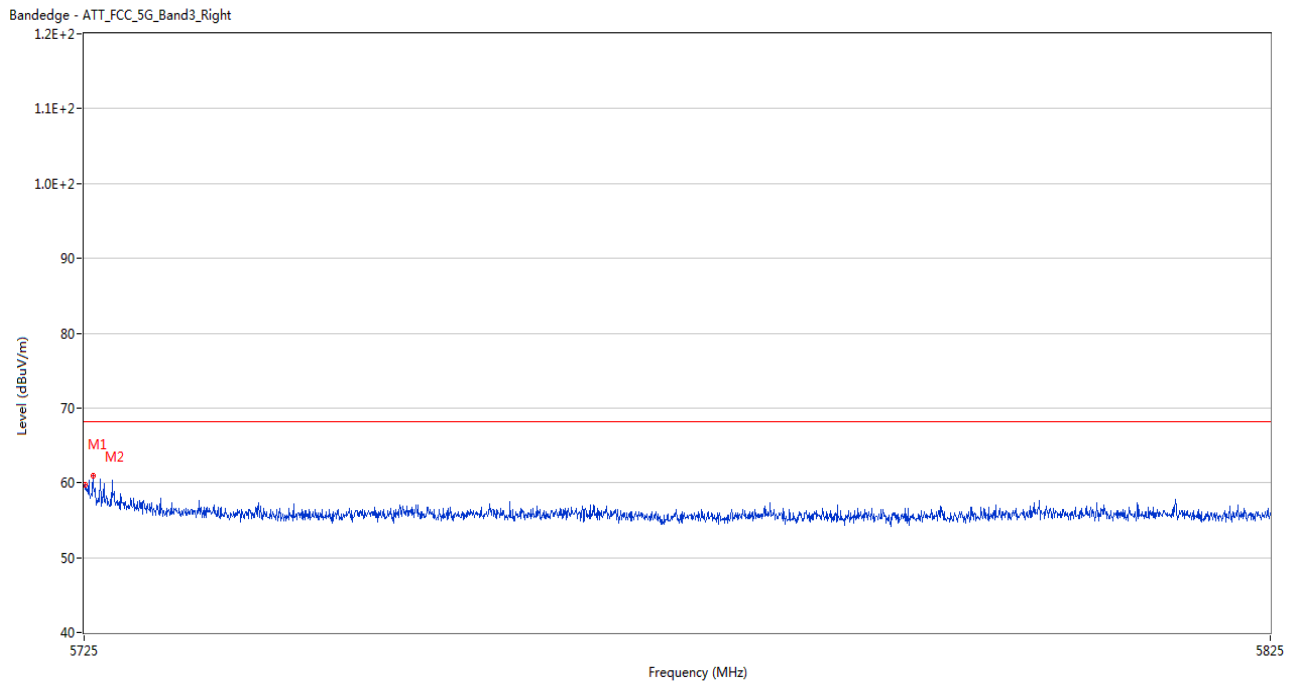
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1	5725.050	60.70	2.55	68.2	7.50	Peak	13.00	100	Vertical	Pass
2	5725.400	60.05	2.54	68.2	8.15	Peak	29.00	200	Vertical	Pass

U-NII-2C 11n20 Low Channel



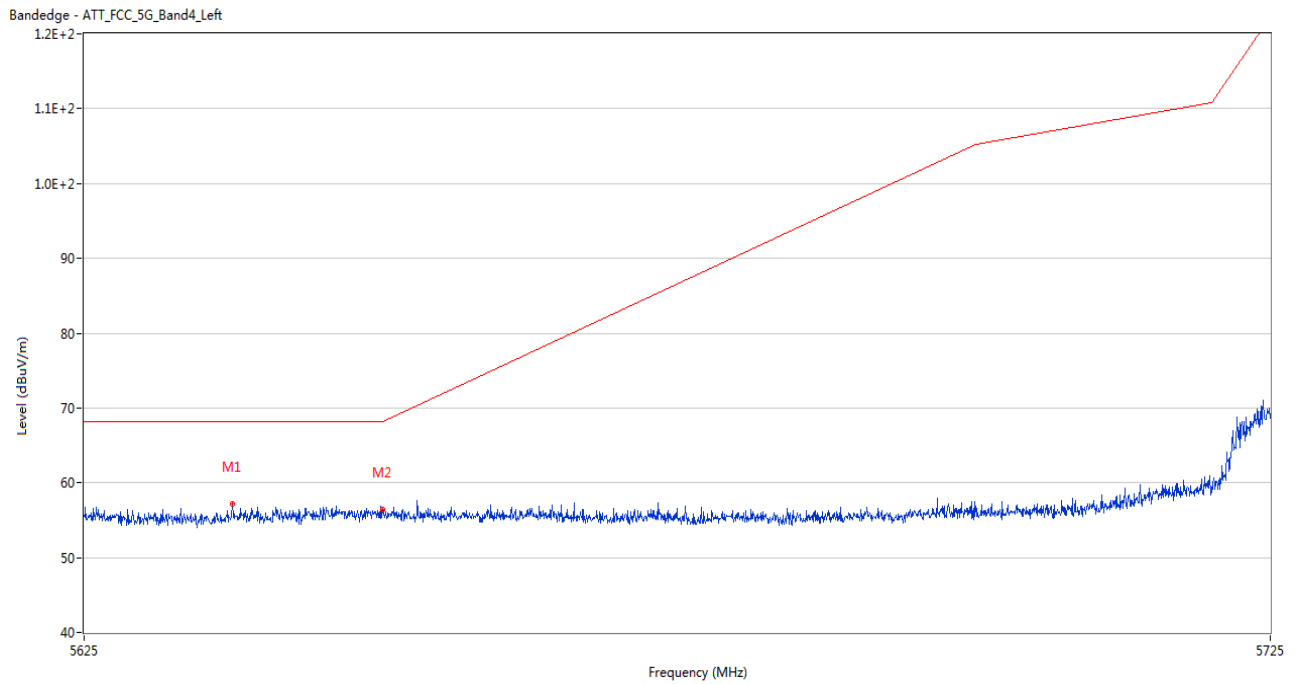
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5421.200	57.74	2.43	74.0	16.26	Peak	330.00	150	Vertical	Pass
1**	5421.200	46.04	2.43	54.0	7.96	AV	330.00	150	Vertical	Pass
2	5460.000	56.62	2.50	74.0	17.38	Peak	350.00	150	Vertical	Pass
2**	5460.000	46.96	2.50	54.0	7.04	AV	350.00	150	Vertical	Pass
3	5469.100	58.12	2.97	68.2	10.08	Peak	338.00	100	Vertical	Pass
3**	5469.100	47.70	2.97	--	--	AV	338.00	100	Vertical	N/A
4	5469.950	56.86	2.87	68.2	11.34	Peak	333.00	150	Vertical	Pass
4**	5469.950	48.26	2.87	--	--	AV	333.00	150	Vertical	N/A

U-NII-2C 11n20 High Channel



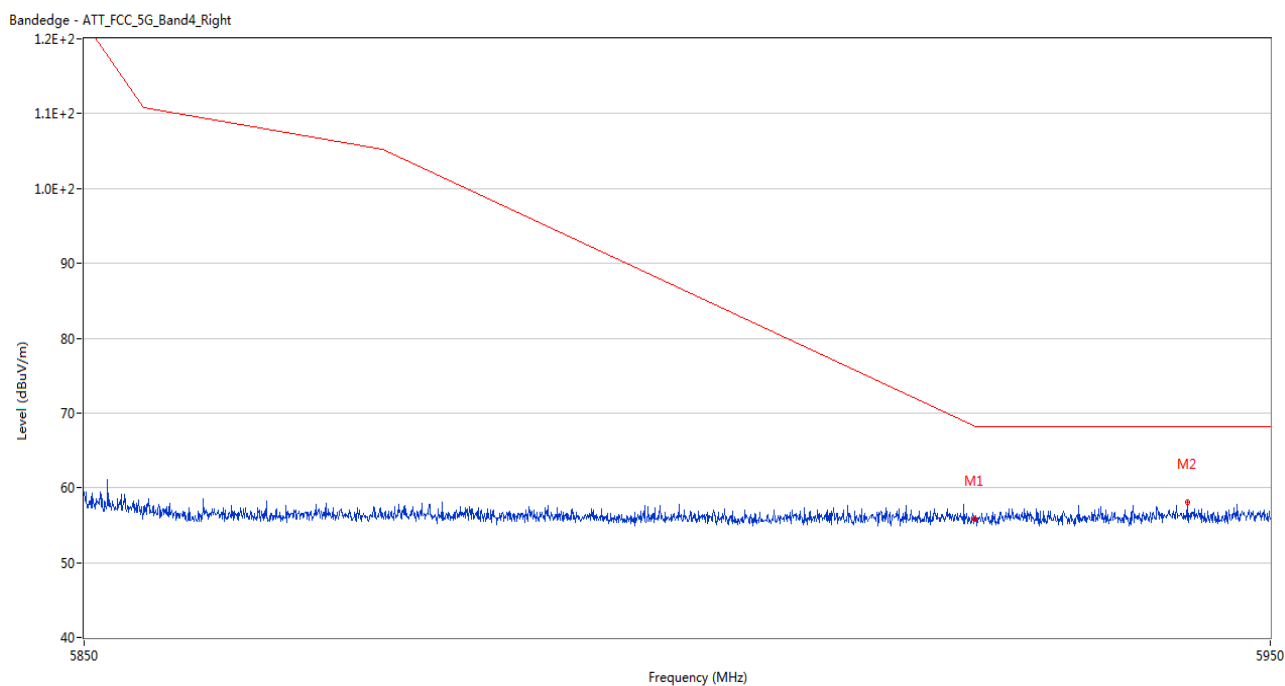
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.050	59.73	2.55	68.2	8.47	Peak	360.00	200	Vertical	Pass
2	5725.750	60.96	2.54	68.2	7.24	Peak	345.00	200	Vertical	Pass

U-NII-3 11a Low Channel



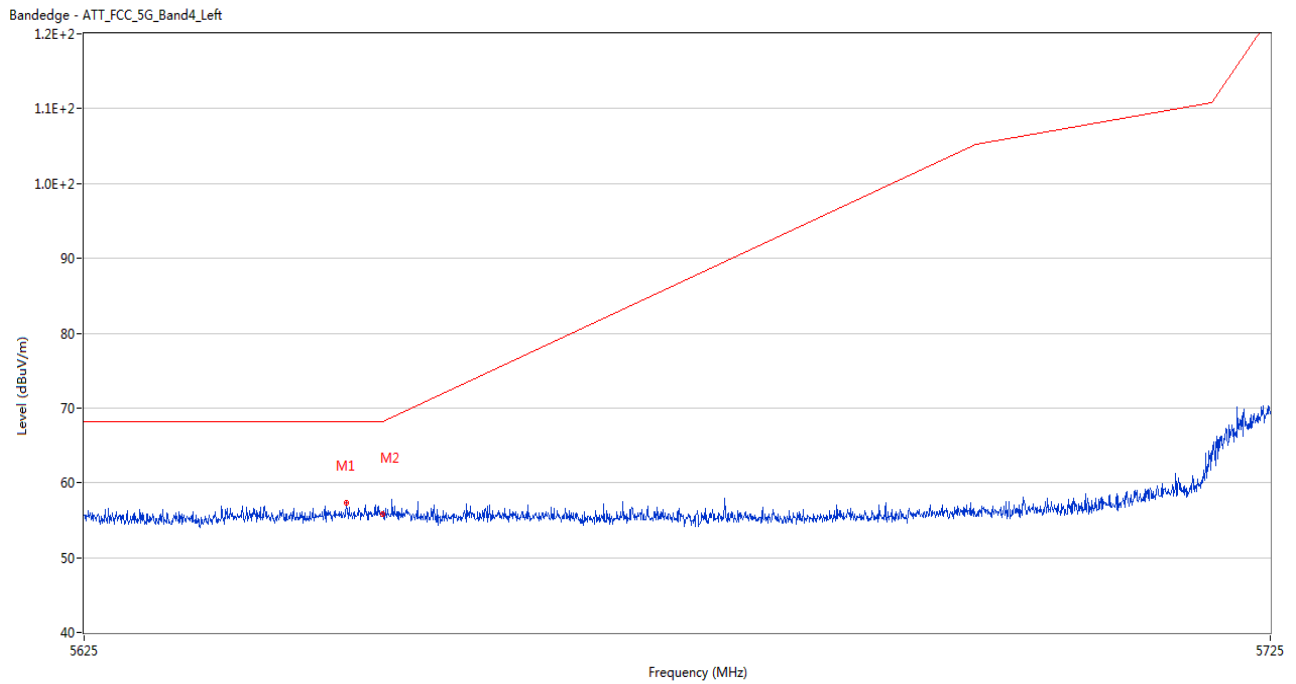
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5637.400	57.20	2.29	68.2	11.00	Peak	163.00	200	Vertical	Pass
2	5650.000	56.46	2.54	68.2	11.74	Peak	76.00	150	Vertical	Pass

U-NII-3 11a High Channel



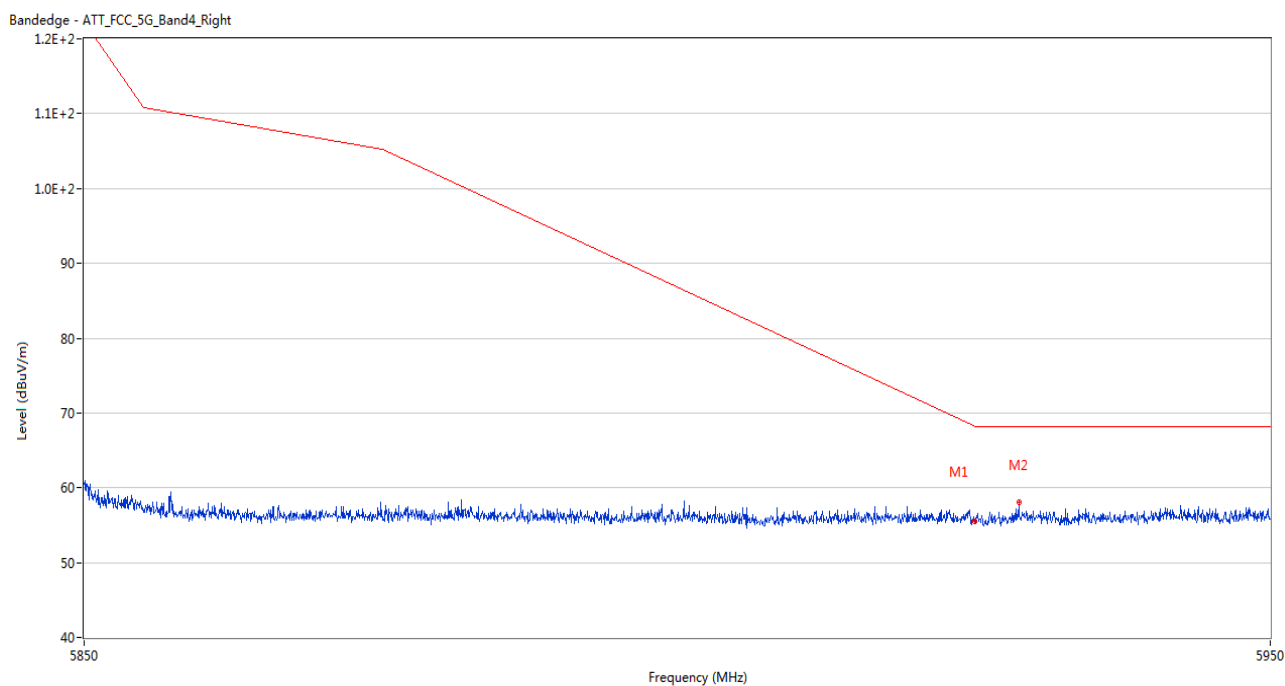
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.89	2.32	68.2	12.31	Peak	348.00	100	Vertical	Pass
2	5942.950	58.15	2.62	68.2	10.05	Peak	97.00	200	Vertical	Pass

U-NII-3 11n20 Low Channel



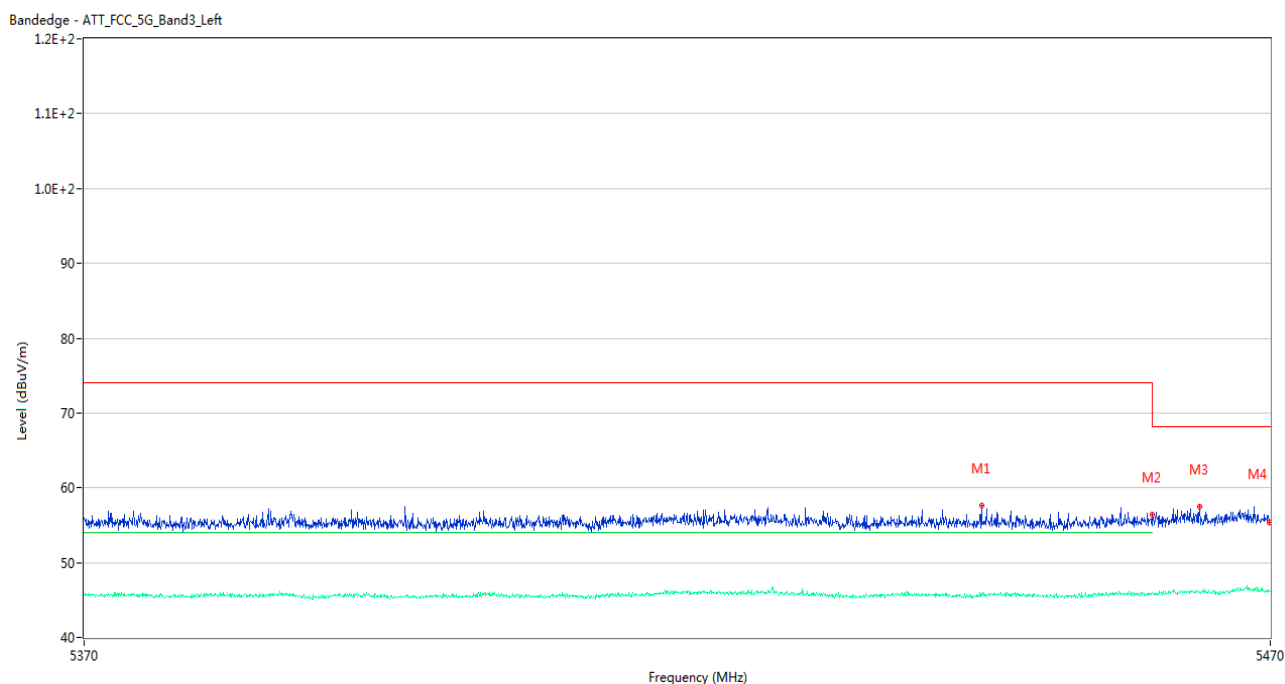
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5646.950	57.28	2.65	68.2	10.92	Peak	81.00	150	Vertical	Pass
2	5650.000	55.85	2.54	68.2	12.35	Peak	32.00	100	Vertical	Pass

U-NII-3 11n20 High Channel



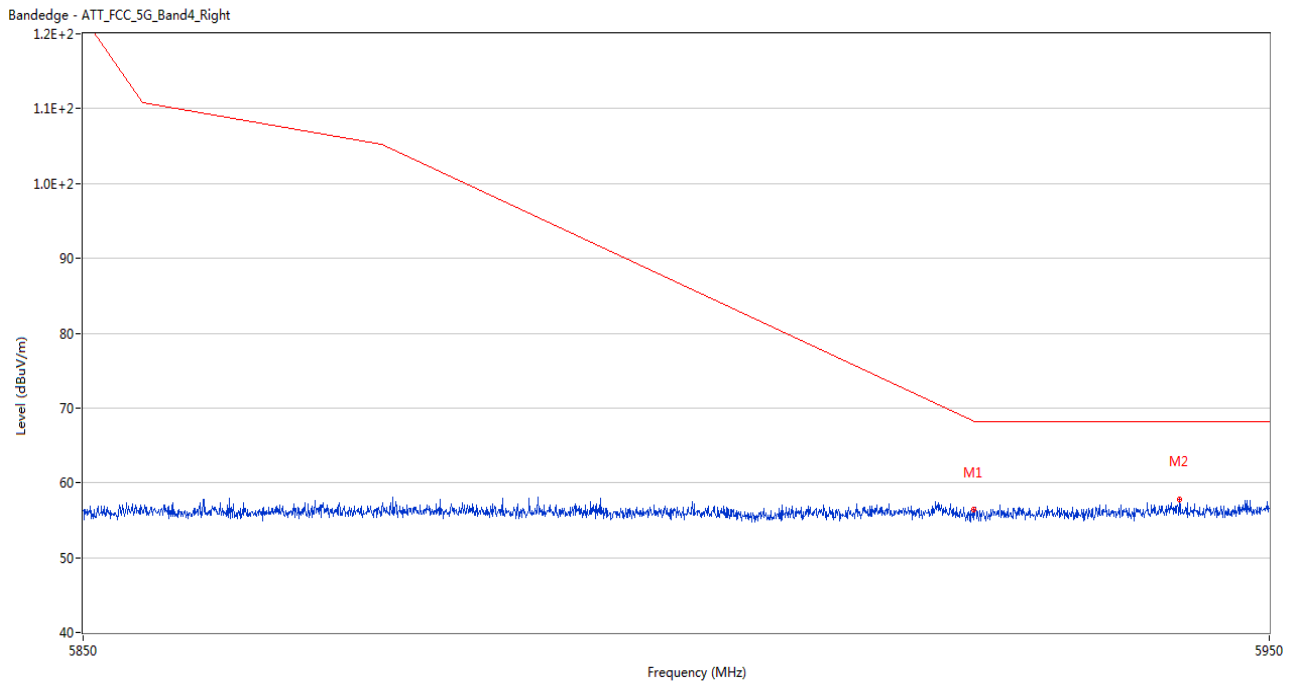
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.53	2.32	68.2	12.67	Peak	268.00	200	Vertical	Pass
2	5928.650	58.02	2.67	68.2	10.18	Peak	157.00	200	Vertical	Pass

U-NII-2C & U-NII-3 11a 144 Channel



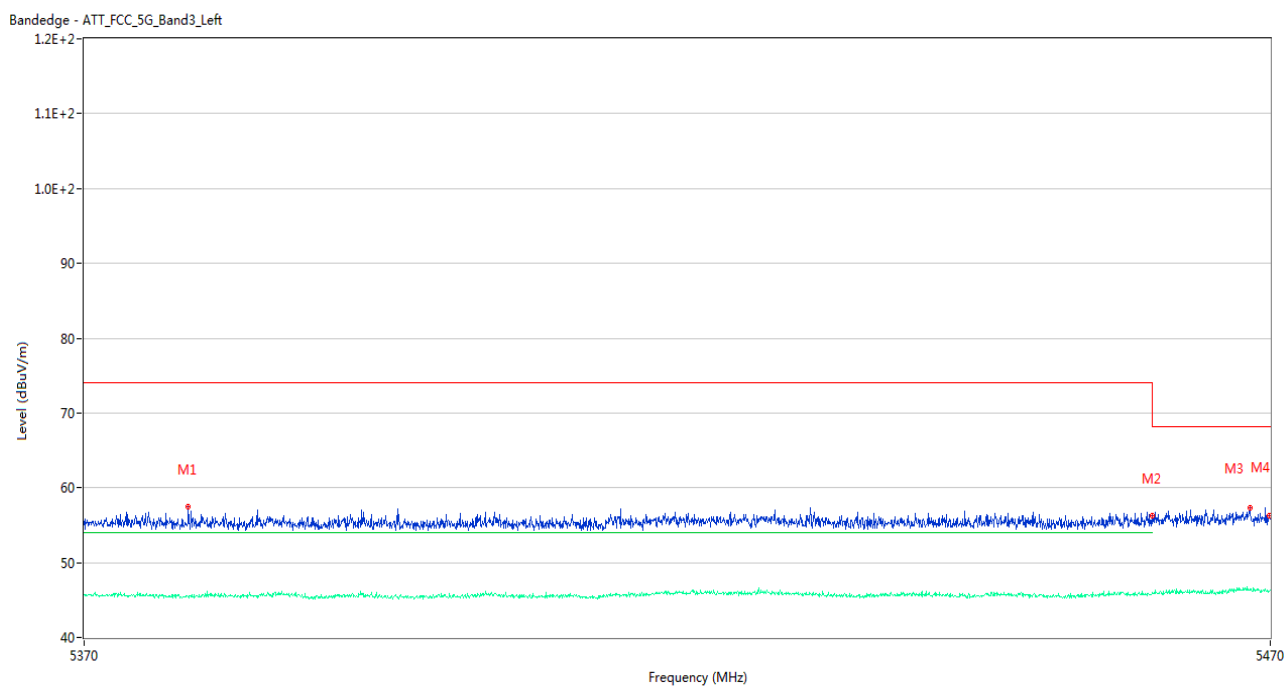
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5445.500	57.57	2.26	74.0	16.43	Peak	232.00	150	Vertical	Pass
1**	5445.500	45.55	2.26	54.0	8.45	AV	232.00	150	Vertical	Pass
2	5460.000	56.43	2.50	74.0	17.57	Peak	52.00	100	Vertical	Pass
2**	5460.000	45.97	2.50	54.0	8.03	AV	52.00	100	Vertical	Pass
3	5464.000	57.51	2.78	68.2	10.69	Peak	123.00	200	Vertical	Pass
3**	5464.000	46.15	2.78	--	--	AV	123.00	200	Vertical	N/A
4	5469.950	55.44	2.87	68.2	12.76	Peak	220.00	150	Vertical	Pass
4**	5469.950	46.20	2.87	--	--	AV	220.00	150	Vertical	N/A

U-NII-2C & U-NII-3 11a 144 Channel



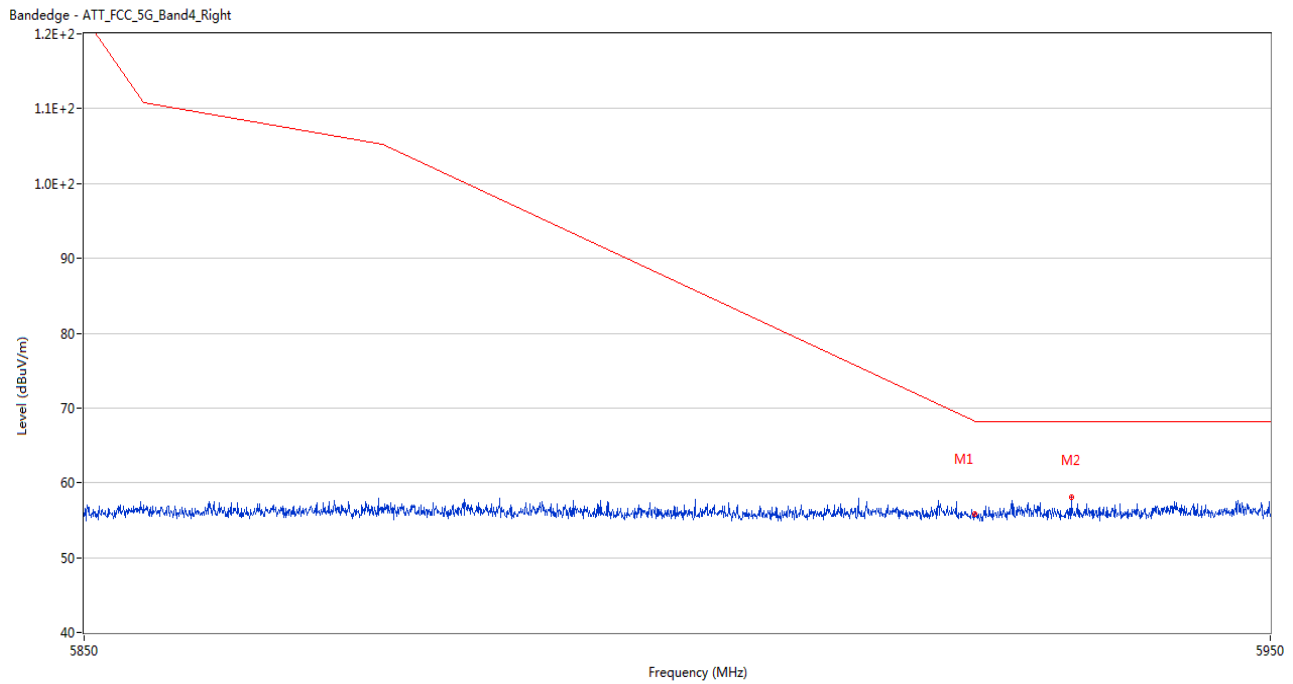
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.41	2.32	68.2	11.79	Peak	319.00	100	Vertical	Pass
2	5942.400	57.83	2.73	68.2	10.37	Peak	29.00	100	Vertical	Pass

U-NII-2C & U-NII-3 11n20 144 Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5378.700	57.50	2.11	74.0	16.50	Peak	172.00	150	Vertical	Pass
1**	5378.700	45.42	2.11	54.0	8.58	AV	172.00	150	Vertical	Pass
2	5460.000	56.30	2.50	74.0	17.70	Peak	183.00	200	Vertical	Pass
2**	5460.000	46.09	2.50	54.0	7.91	AV	183.00	200	Vertical	Pass
3	5468.250	57.36	3.09	68.2	10.84	Peak	205.00	200	Vertical	Pass
3**	5468.250	46.47	3.09	--	--	AV	205.00	200	Vertical	N/A
4	5469.950	56.24	2.87	68.2	11.96	Peak	232.00	200	Vertical	Pass
4**	5469.950	46.25	2.87	--	--	AV	232.00	200	Vertical	N/A

U-NII-2C & U-NII-3 11n20 144 Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.76	2.32	68.2	12.44	Peak	40.00	200	Vertical	Pass
2	5933.100	58.09	2.28	68.2	10.11	Peak	83.00	100	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2360975-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2360975-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2360975-AI.PDF”.

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--END OF REPORT--